

Table S4: SNPs found common between high and low pod number-containing parental accessions and homozygous bulks of mapping population (Pusa 1103 x ILWC 46) with respect to reference kabuli (CDC Frontier) chickpea genome

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1_A_331	NC_021160.1	Ca_Kabuli_Chr01	331	AA	GG	GG	NON_SYNONYMOUS_CODING	101497325	uncharacterized LOC101497325
SNP_2_A_341	NC_021160.1	Ca_Kabuli_Chr01	341	CC	AA	AA	NON_SYNONYMOUS_CODING	101497325	uncharacterized LOC101497325
SNP_4_A_7241	NC_021160.1	Ca_Kabuli_Chr01	7241	TT	CC	CC	INTERGENIC		
SNP_5_A_9180	NC_021160.1	Ca_Kabuli_Chr01	9180	CC	TT	TT	INTERGENIC		
SNP_6_A_13915	NC_021160.1	Ca_Kabuli_Chr01	13915	AA	GG	GG	INTERGENIC		
SNP_7_A_17726	NC_021160.1	Ca_Kabuli_Chr01	17726	CC	TT	TT	DRR	101488339	uncharacterized LOC101488339
SNP_8_A_17801	NC_021160.1	Ca_Kabuli_Chr01	17801	TT	CC	CC	DRR	101488339	uncharacterized LOC101488339
SNP_11_A_38902	NC_021160.1	Ca_Kabuli_Chr01	38902	CC	TT	TT	URR	101488545	type 1 phosphatases regulator ypi1-like
SNP_12_A_48428	NC_021160.1	Ca_Kabuli_Chr01	48428	GG	AA	AA	INTRON	101497647	uncharacterized protein At5g08430-like
SNP_13_A_84665	NC_021160.1	Ca_Kabuli_Chr01	84665	AA	GG	GG	INTERGENIC		
SNP_14_A_84783	NC_021160.1	Ca_Kabuli_Chr01	84783	CC	TT	TT	INTERGENIC		
SNP_15_A_117177	NC_021160.1	Ca_Kabuli_Chr01	117177	AA	TT	TT	INTERGENIC		
SNP_16_A_117178	NC_021160.1	Ca_Kabuli_Chr01	117178	GG	TT	TT	INTERGENIC		
SNP_17_A_117506	NC_021160.1	Ca_Kabuli_Chr01	117506	AA	GG	GG	INTERGENIC		
SNP_18_A_120210	NC_021160.1	Ca_Kabuli_Chr01	120210	TT	CC	CC	INTERGENIC		
SNP_19_A_124852	NC_021160.1	Ca_Kabuli_Chr01	124852	AA	GG	GG	INTERGENIC		
SNP_20_A_125036	NC_021160.1	Ca_Kabuli_Chr01	125036	AA	GG	GG	INTERGENIC		
SNP_21_A_125491	NC_021160.1	Ca_Kabuli_Chr01	125491	TT	CC	CC	INTERGENIC		
SNP_22_A_137957	NC_021160.1	Ca_Kabuli_Chr01	137957	CC	TT	TT	INTERGENIC		
SNP_23_A_186363	NC_021160.1	Ca_Kabuli_Chr01	186363	AA	TT	TT	INTRON	101494203	uncharacterized LOC101494203
SNP_24_A_186377	NC_021160.1	Ca_Kabuli_Chr01	186377	AA	GG	GG	INTRON	101494203	uncharacterized LOC101494203

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SNP_26_A_186564	NC_021160.1	Ca_Kabuli_Chr01	186564	AA	TT	TT	INTRON	101494203	uncharacterized LOC101494203
SNP_27_A_186725	NC_021160.1	Ca_Kabuli_Chr01	186725	GG	TT	TT	INTRON	101494203	uncharacterized LOC101494203
SNP_28_A_186749	NC_021160.1	Ca_Kabuli_Chr01	186749	GG	AA	AA	INTRON	101494203	uncharacterized LOC101494203
SNP_29_A_226700	NC_021160.1	Ca_Kabuli_Chr01	226700	GG	AA	AA	URR	101495904	ras-related protein RABA2a
SNP_32_A_498218	NC_021160.1	Ca_Kabuli_Chr01	498218	AA	TT	TT	INTERGENIC		
SNP_33_A_797364	NC_021160.1	Ca_Kabuli_Chr01	797364	GG	TT	TT	INTERGENIC		
SNP_35_A_884497	NC_021160.1	Ca_Kabuli_Chr01	884497	AA	GG	GG	DRR	101504195	phosphatidylserine decarboxylase proenzyme 2-like
SNP_36_A_906464	NC_021160.1	Ca_Kabuli_Chr01	906464	GG	AA	AA	URR	101505467	soyasaponin III rhamnosyltransferase
SNP_37_A_938637	NC_021160.1	Ca_Kabuli_Chr01	938637	CC	GG	GG	INTRON	101506774	protein RAE1-like
SNP_38_A_963595	NC_021160.1	Ca_Kabuli_Chr01	963595	AA	TT	TT	INTERGENIC		
SNP_39_A_986531	NC_021160.1	Ca_Kabuli_Chr01	986531	AA	CC	CC	URR	101508788	non-specific lipid-transfer protein-like protein At5g64080
SNP_40_A_1041444	NC_021160.1	Ca_Kabuli_Chr01	1041444	CC	TT	TT	INTERGENIC		
SNP_41_A_1082224	NC_021160.1	Ca_Kabuli_Chr01	1082224	TT	AA	AA	INTERGENIC		
SNP_44_A_1085672	NC_021160.1	Ca_Kabuli_Chr01	1085672	AA	TT	TT	URR	101489115	metacaspase-3-like
SNP_45_A_1088449	NC_021160.1	Ca_Kabuli_Chr01	1088449	AA	TT	TT	DRR	101489448	uncharacterized LOC101489448
SNP_47_A_1093233	NC_021160.1	Ca_Kabuli_Chr01	1093233	TT	CC	CC	START_GAINED	101489448	uncharacterized LOC101489448
SNP_48_A_1093234	NC_021160.1	Ca_Kabuli_Chr01	1093234	AA	TT	TT	URR	101489448	uncharacterized LOC101489448
SNP_49_A_1093258	NC_021160.1	Ca_Kabuli_Chr01	1093258	CC	TT	TT	URR	101489448	uncharacterized LOC101489448
SNP_50_A_1094211	NC_021160.1	Ca_Kabuli_Chr01	1094211	CC	TT	TT	URR	101489448	uncharacterized LOC101489448
SNP_51_A_1094212	NC_021160.1	Ca_Kabuli_Chr01	1094212	GG	TT	TT	URR	101489448	uncharacterized LOC101489448
SNP_52_A_1094337	NC_021160.1	Ca_Kabuli_Chr01	1094337	CC	GG	GG	URR	101489448	uncharacterized LOC101489448
SNP_53_A_1094345	NC_021160.1	Ca_Kabuli_Chr01	1094345	AA	CC	CC	URR	101489448	uncharacterized LOC101489448

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SNP_54_A_1094434	NC_021160.1	Ca_Kabuli_Chr01	1094434	TT	CC	CC	URR	101489448	uncharacterized LOC101489448
SNP_56_A_1095138	NC_021160.1	Ca_Kabuli_Chr01	1095138	CC	TT	TT	URR	101489448	uncharacterized LOC101489448
SNP_57_A_1095418	NC_021160.1	Ca_Kabuli_Chr01	1095418	TT	AA	AA	INTERGENIC		
SNP_58_A_1099273	NC_021160.1	Ca_Kabuli_Chr01	1099273	CC	TT	TT	INTERGENIC		
SNP_59_A_1099312	NC_021160.1	Ca_Kabuli_Chr01	1099312	TT	CC	CC	INTERGENIC		
SNP_60_A_1099338	NC_021160.1	Ca_Kabuli_Chr01	1099338	AA	TT	TT	INTERGENIC		
SNP_61_A_1099644	NC_021160.1	Ca_Kabuli_Chr01	1099644	CC	AA	AA	INTERGENIC		
SNP_62_A_1100347	NC_021160.1	Ca_Kabuli_Chr01	1100347	TT	CC	CC	INTERGENIC		
SNP_63_A_1100879	NC_021160.1	Ca_Kabuli_Chr01	1100879	AA	CC	CC	INTERGENIC		
SNP_64_A_1100895	NC_021160.1	Ca_Kabuli_Chr01	1100895	AA	CC	CC	INTERGENIC		
SNP_65_A_1100896	NC_021160.1	Ca_Kabuli_Chr01	1100896	TT	AA	AA	INTERGENIC		
SNP_66_A_1100900	NC_021160.1	Ca_Kabuli_Chr01	1100900	AA	CC	CC	INTERGENIC		
SNP_67_A_1100956	NC_021160.1	Ca_Kabuli_Chr01	1100956	GG	AA	AA	INTERGENIC		
SNP_68_A_1100977	NC_021160.1	Ca_Kabuli_Chr01	1100977	TT	CC	CC	INTERGENIC		
SNP_69_A_1100978	NC_021160.1	Ca_Kabuli_Chr01	1100978	GG	AA	AA	INTERGENIC		
SNP_70_A_1101057	NC_021160.1	Ca_Kabuli_Chr01	1101057	TT	CC	CC	INTERGENIC		
SNP_71_A_1102476	NC_021160.1	Ca_Kabuli_Chr01	1102476	AA	GG	GG	INTERGENIC		
SNP_72_A_1102769	NC_021160.1	Ca_Kabuli_Chr01	1102769	GG	TT	TT	INTERGENIC		
SNP_73_A_1102779	NC_021160.1	Ca_Kabuli_Chr01	1102779	CC	TT	TT	INTERGENIC		
SNP_74_A_1159904	NC_021160.1	Ca_Kabuli_Chr01	1159904	TT	CC	CC	URR	101504405	classical arabinogalactan protein 1-like
SNP_76_A_1186057	NC_021160.1	Ca_Kabuli_Chr01	1186057	AA	GG	GG	SYNONYMOUS_CODING	101493012	pyruvate decarboxylase 1-like
SNP_77_A_1186206	NC_021160.1	Ca_Kabuli_Chr01	1186206	CC	GG	GG	SYNONYMOUS_CODING	101493012	pyruvate decarboxylase 1-like

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SNP_78_A_1197170	NC_021160.1	Ca_Kabuli_Chr01	1197170	GG	TT	TT	DRR	101505047	pyruvate decarboxylase 1-like
SNP_79_A_1209216	NC_021160.1	Ca_Kabuli_Chr01	1209216	AA	CC	CC	INTRON	101505365	(3S,6E)-nerolidol synthase 1-like
SNP_82_A_1371789	NC_021160.1	Ca_Kabuli_Chr01	1371789	CC	TT	TT	INTERGENIC		
SNP_83_A_1371791	NC_021160.1	Ca_Kabuli_Chr01	1371791	TT	GG	GG	INTERGENIC		
SNP_84_A_1377085	NC_021160.1	Ca_Kabuli_Chr01	1377085	TT	CC	CC	INTRON	101500250	MADS-box transcription factor 23-like
SNP_86_A_1409346	NC_021160.1	Ca_Kabuli_Chr01	1409346	AA	TT	TT	INTERGENIC		
SNP_88_A_1469404	NC_021160.1	Ca_Kabuli_Chr01	1469404	TT	AA	AA	INTERGENIC		
SNP_89_A_1511754	NC_021160.1	Ca_Kabuli_Chr01	1511754	GG	CC	CC	URR	101505805	aspartic proteinase-like protein 2
SNP_91_A_1540564	NC_021160.1	Ca_Kabuli_Chr01	1540564	TT	CC	CC	INTERGENIC		
SNP_92_A_1582825	NC_021160.1	Ca_Kabuli_Chr01	1582825	CC	TT	TT	DRR	101510079	uncharacterized protein At3g49720-like
SNP_93_A_1593940	NC_021160.1	Ca_Kabuli_Chr01	1593940	TT	AA	AA	URR	101507323	basic form of pathogenesis-related protein 1-like
SNP_94_A_1605743	NC_021160.1	Ca_Kabuli_Chr01	1605743	AA	GG	GG	URR	101510405	pathogenesis-related protein 1B-like
SNP_96_A_1659441	NC_021160.1	Ca_Kabuli_Chr01	1659441	CC	TT	TT	INTERGENIC		
SNP_97_A_1673567	NC_021160.1	Ca_Kabuli_Chr01	1673567	TT	CC	CC	URR	101513827	uncharacterized LOC101513827
SNP_98_A_1686137	NC_021160.1	Ca_Kabuli_Chr01	1686137	GG	AA	AA	INTERGENIC		
SNP_100_A_1687993	NC_021160.1	Ca_Kabuli_Chr01	1687993	AA	GG	GG	DRR	101515140	(3S,6E)-nerolidol synthase 1-like
SNP_101_A_1708047	NC_021160.1	Ca_Kabuli_Chr01	1708047	CC	TT	TT	INTERGENIC		
SNP_104_A_1731616	NC_021160.1	Ca_Kabuli_Chr01	1731616	GG	CC	CC	INTRON	101507627	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290
SNP_105_A_1732756	NC_021160.1	Ca_Kabuli_Chr01	1732756	TT	GG	GG	INTRON	101507627	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290
SNP_106_A_1733815	NC_021160.1	Ca_Kabuli_Chr01	1733815	GG	AA	AA	SYNONYMOUS_CODING	101507627	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290
SNP_107_A_1733817	NC_021160.1	Ca_Kabuli_Chr01	1733817	CC	TT	TT	NON_SYNONYMOUS_CODING	101507627	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290
SNP_108_A_1737970	NC_021160.1	Ca_Kabuli_Chr01	1737970	CC	TT	TT	DRR	101490837	receptor-like serine/threonine-protein kinase SD1-8

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SNP_109_A_1742621	NC_021160.1	Ca_Kabuli_Chr01	1742621	GG	TT	TT	DRR	101490514	receptor-like serine/threonine-protein kinase SD1-8
SNP_110_A_1745222	NC_021160.1	Ca_Kabuli_Chr01	1745222	AA	GG	GG	INTERGENIC		
SNP_112_A_1745982	NC_021160.1	Ca_Kabuli_Chr01	1745982	CC	TT	TT	INTERGENIC		
SNP_113_A_1781811	NC_021160.1	Ca_Kabuli_Chr01	1781811	AA	GG	GG	INTERGENIC		
SNP_114_A_1781833	NC_021160.1	Ca_Kabuli_Chr01	1781833	AA	GG	GG	INTERGENIC		
SNP_115_A_1783207	NC_021160.1	Ca_Kabuli_Chr01	1783207	AA	GG	GG	INTRON	101493116	nitric oxide synthase-interacting protein
SNP_116_A_1783388	NC_021160.1	Ca_Kabuli_Chr01	1783388	AA	CC	CC	INTRON	101493116	nitric oxide synthase-interacting protein
SNP_117_A_1783389	NC_021160.1	Ca_Kabuli_Chr01	1783389	GG	AA	AA	INTRON	101493116	nitric oxide synthase-interacting protein
SNP_118_A_1783415	NC_021160.1	Ca_Kabuli_Chr01	1783415	TT	CC	CC	INTRON	101493116	nitric oxide synthase-interacting protein
SNP_119_A_1783736	NC_021160.1	Ca_Kabuli_Chr01	1783736	TT	CC	CC	SYNONYMOUS_CODING	101493116	nitric oxide synthase-interacting protein
SNP_120_A_1785122	NC_021160.1	Ca_Kabuli_Chr01	1785122	TT	CC	CC	URR	101493116	nitric oxide synthase-interacting protein
SNP_121_A_1786177	NC_021160.1	Ca_Kabuli_Chr01	1786177	TT	GG	GG	DRR	101493445	protein PLANT CADMIUM RESISTANCE 8-like
SNP_122_A_1786463	NC_021160.1	Ca_Kabuli_Chr01	1786463	GG	AA	AA	DRR	101493445	protein PLANT CADMIUM RESISTANCE 8-like
SNP_123_A_1787949	NC_021160.1	Ca_Kabuli_Chr01	1787949	CC	TT	TT	INTERGENIC		
SNP_124_A_1792444	NC_021160.1	Ca_Kabuli_Chr01	1792444	GG	AA	AA	INTERGENIC		
SNP_125_A_1793203	NC_021160.1	Ca_Kabuli_Chr01	1793203	GG	AA	AA	INTERGENIC		
SNP_126_A_1799951	NC_021160.1	Ca_Kabuli_Chr01	1799951	CC	TT	TT	URR	101507948	cation/H(+) antiporter 15-like
SNP_128_A_1805624	NC_021160.1	Ca_Kabuli_Chr01	1805624	AA	TT	TT	URR	101494303	equilibrative nucleotide transporter 3-like
SNP_129_A_1807499	NC_021160.1	Ca_Kabuli_Chr01	1807499	GG	AA	AA	INTERGENIC		
SNP_130_A_1807689	NC_021160.1	Ca_Kabuli_Chr01	1807689	AA	GG	GG	INTERGENIC		
SNP_131_A_1807694	NC_021160.1	Ca_Kabuli_Chr01	1807694	TT	CC	CC	INTERGENIC		
SNP_132_A_1807701	NC_021160.1	Ca_Kabuli_Chr01	1807701	TT	CC	CC	INTERGENIC		

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SNP_133_A_1807758	NC_021160.1	Ca_Kabuli_Chr01	1807758	CC	TT	TT	INTERGENIC		
SNP_134_A_1807768	NC_021160.1	Ca_Kabuli_Chr01	1807768	TT	CC	CC	INTERGENIC		
SNP_135_A_1807806	NC_021160.1	Ca_Kabuli_Chr01	1807806	CC	TT	TT	INTERGENIC		
SNP_136_A_1813664	NC_021160.1	Ca_Kabuli_Chr01	1813664	AA	TT	TT	NON_SYNONYMOUS_CODING	101494927	equilibrative nucleotide transporter 3-like
SNP_137_A_1814033	NC_021160.1	Ca_Kabuli_Chr01	1814033	AA	GG	GG	INTRON	101494927	equilibrative nucleotide transporter 3-like
SNP_139_A_1820550	NC_021160.1	Ca_Kabuli_Chr01	1820550	TT	GG	GG	URR	101508262	Unknown function
SNP_140_A_1820724	NC_021160.1	Ca_Kabuli_Chr01	1820724	TT	CC	CC	URR	101508262	Unknown function
SNP_141_A_1824611	NC_021160.1	Ca_Kabuli_Chr01	1824611	CC	AA	AA	INTRON	101508582	lysine-specific demethylase JMJ25-like
SNP_142_A_1825395	NC_021160.1	Ca_Kabuli_Chr01	1825395	AA	GG	GG	INTRON	101508582	lysine-specific demethylase JMJ25-like
SNP_143_A_1831998	NC_021160.1	Ca_Kabuli_Chr01	1831998	GG	TT	TT	INTERGENIC		
SNP_146_A_1836863	NC_021160.1	Ca_Kabuli_Chr01	1836863	GG	AA	AA	URR	101495478	uncharacterized aarF domain-containing protein kinase 2
SNP_147_A_1838100	NC_021160.1	Ca_Kabuli_Chr01	1838100	TT	CC	CC	INTERGENIC		
SNP_148_A_1840799	NC_021160.1	Ca_Kabuli_Chr01	1840799	AA	CC	CC	INTERGENIC		
SNP_149_A_1840818	NC_021160.1	Ca_Kabuli_Chr01	1840818	CC	TT	TT	INTERGENIC		
SNP_150_A_1840824	NC_021160.1	Ca_Kabuli_Chr01	1840824	AA	GG	GG	INTERGENIC		
SNP_151_A_1840901	NC_021160.1	Ca_Kabuli_Chr01	1840901	AA	CC	CC	INTERGENIC		
SNP_152_A_1840967	NC_021160.1	Ca_Kabuli_Chr01	1840967	CC	AA	AA	INTERGENIC		
SNP_153_A_1840971	NC_021160.1	Ca_Kabuli_Chr01	1840971	TT	CC	CC	INTERGENIC		
SNP_154_A_1840980	NC_021160.1	Ca_Kabuli_Chr01	1840980	TT	CC	CC	INTERGENIC		
SNP_155_A_1841010	NC_021160.1	Ca_Kabuli_Chr01	1841010	AA	GG	GG	INTERGENIC		
SNP_158_A_1841306	NC_021160.1	Ca_Kabuli_Chr01	1841306	GG	TT	TT	INTERGENIC		
SNP_159_A_1841321	NC_021160.1	Ca_Kabuli_Chr01	1841321	AA	GG	GG	INTERGENIC		

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SNP_160_A_1841324	NC_021160.1	Ca_Kabuli_Chr01	1841324	TT	CC	CC	INTERGENIC			
SNP_161_A_1841325	NC_021160.1	Ca_Kabuli_Chr01	1841325	CC	GG	GG	INTERGENIC			
SNP_162_A_1841358	NC_021160.1	Ca_Kabuli_Chr01	1841358	AA	CC	CC	INTERGENIC			
SNP_163_A_1841377	NC_021160.1	Ca_Kabuli_Chr01	1841377	TT	AA	AA	INTERGENIC			
SNP_165_A_1841497	NC_021160.1	Ca_Kabuli_Chr01	1841497	CC	AA	AA	INTERGENIC			
SNP_166_A_1841613	NC_021160.1	Ca_Kabuli_Chr01	1841613	CC	TT	TT	INTERGENIC			
SNP_167_A_1843120	NC_021160.1	Ca_Kabuli_Chr01	1843120	TT	GG	GG	INTERGENIC			
SNP_168_A_1843376	NC_021160.1	Ca_Kabuli_Chr01	1843376	TT	GG	GG	INTERGENIC			
SNP_170_A_1843705	NC_021160.1	Ca_Kabuli_Chr01	1843705	AA	TT	TT	INTERGENIC			
SNP_171_A_1848759	NC_021160.1	Ca_Kabuli_Chr01	1848759	TT	CC	CC	DRR	101495806	transcription factor MYB39	
SNP_172_A_1848830	NC_021160.1	Ca_Kabuli_Chr01	1848830	TT	GG	GG	DRR	101495806	transcription factor MYB39	
SNP_175_A_1852306	NC_021160.1	Ca_Kabuli_Chr01	1852306	GG	CC	CC	URR	101495806	transcription factor MYB39	
SNP_176_A_1852332	NC_021160.1	Ca_Kabuli_Chr01	1852332	CC	AA	AA	URR	101495806	transcription factor MYB39	
SNP_177_A_1856176	NC_021160.1	Ca_Kabuli_Chr01	1856176	TT	CC	CC	DRR	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_178_A_1856423	NC_021160.1	Ca_Kabuli_Chr01	1856423	TT	AA	AA	DRR	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_179_A_1856496	NC_021160.1	Ca_Kabuli_Chr01	1856496	AA	CC	CC	DRR	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_180_A_1858041	NC_021160.1	Ca_Kabuli_Chr01	1858041	TT	AA	AA	INTRON	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_181_A_1858064	NC_021160.1	Ca_Kabuli_Chr01	1858064	TT	AA	AA	INTRON	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_182_A_1858078	NC_021160.1	Ca_Kabuli_Chr01	1858078	CC	TT	TT	INTRON	101496129	putative PAP-specific phosphatase, mitochondrial	
SNP_183_A_1863536	NC_021160.1	Ca_Kabuli_Chr01	1863536	AA	GG	GG	DRR	101497320	uncharacterized LOC101497320	
SNP_184_A_1869287	NC_021160.1	Ca_Kabuli_Chr01	1869287	TT	CC	CC	INTERGENIC			
SNP_185_A_1869849	NC_021160.1	Ca_Kabuli_Chr01	1869849	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_186_A_1869864	NC_021160.1	Ca_Kabuli_Chr01	1869864	CC	AA	AA	INTERGENIC		
SNP_187_A_1869865	NC_021160.1	Ca_Kabuli_Chr01	1869865	AA	GG	GG	INTERGENIC		
SNP_188_A_1870245	NC_021160.1	Ca_Kabuli_Chr01	1870245	TT	AA	AA	INTRON	101508897	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like
SNP_189_A_1871126	NC_021160.1	Ca_Kabuli_Chr01	1871126	TT	AA	AA	INTRON	101508897	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like
SNP_190_A_1871129	NC_021160.1	Ca_Kabuli_Chr01	1871129	CC	TT	TT	INTRON	101508897	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like
SNP_191_A_1874980	NC_021160.1	Ca_Kabuli_Chr01	1874980	GG	AA	AA	INTERGENIC		
SNP_192_A_1874990	NC_021160.1	Ca_Kabuli_Chr01	1874990	TT	CC	CC	INTERGENIC		
SNP_193_A_1875844	NC_021160.1	Ca_Kabuli_Chr01	1875844	CC	TT	TT	INTERGENIC		
SNP_195_A_1877668	NC_021160.1	Ca_Kabuli_Chr01	1877668	GG	AA	AA	INTERGENIC		
SNP_196_A_1881223	NC_021160.1	Ca_Kabuli_Chr01	1881223	TT	CC	CC	URR	101508897	external alternative NAD(P)H-ubiquinone oxidoreductase B2, mitochondrial-like
SNP_198_A_1882710	NC_021160.1	Ca_Kabuli_Chr01	1882710	TT	GG	GG	INTERGENIC		
SNP_200_A_1883070	NC_021160.1	Ca_Kabuli_Chr01	1883070	AA	GG	GG	INTERGENIC		
SNP_202_A_1883120	NC_021160.1	Ca_Kabuli_Chr01	1883120	AA	CC	CC	INTERGENIC		
SNP_203_A_1883132	NC_021160.1	Ca_Kabuli_Chr01	1883132	CC	TT	TT	INTERGENIC		
SNP_205_A_1883200	NC_021160.1	Ca_Kabuli_Chr01	1883200	GG	AA	AA	INTERGENIC		
SNP_207_A_1888214	NC_021160.1	Ca_Kabuli_Chr01	1888214	CC	AA	AA	URR	101497641	heterogeneous nuclear ribonucleoprotein U-like protein 1
SNP_208_A_1888299	NC_021160.1	Ca_Kabuli_Chr01	1888299	GG	AA	AA	URR	101497641	heterogeneous nuclear ribonucleoprotein U-like protein 1
SNP_209_A_1888583	NC_021160.1	Ca_Kabuli_Chr01	1888583	TT	CC	CC	URR	101497641	heterogeneous nuclear ribonucleoprotein U-like protein 1
SNP_210_A_1894845	NC_021160.1	Ca_Kabuli_Chr01	1894845	CC	TT	TT	URR	101509539	Unknown function
SNP_211_A_1896259	NC_021160.1	Ca_Kabuli_Chr01	1896259	CC	TT	TT	URR	101509539	Unknown function
SNP_212_A_1896463	NC_021160.1	Ca_Kabuli_Chr01	1896463	AA	GG	GG	URR	101509539	Unknown function
SNP_213_A_1910806	NC_021160.1	Ca_Kabuli_Chr01	1910806	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_214_A_1911831	NC_021160.1	Ca_Kabuli_Chr01	1911831	GG	AA	AA	URR	101509862	putative FBD-associated F-box protein At1g61330
SNP_215_A_1914702	NC_021160.1	Ca_Kabuli_Chr01	1914702	TT	CC	CC	INTERGENIC		
SNP_218_A_1925057	NC_021160.1	Ca_Kabuli_Chr01	1925057	GG	AA	AA	INTRON	101498971	uncharacterized LOC101498971
SNP_220_A_1936595	NC_021160.1	Ca_Kabuli_Chr01	1936595	TT	AA	AA	INTRON	101499291	sphingosine kinase 1
SNP_221_A_1936660	NC_021160.1	Ca_Kabuli_Chr01	1936660	TT	CC	CC	INTRON	101499291	sphingosine kinase 1
SNP_222_A_1936712	NC_021160.1	Ca_Kabuli_Chr01	1936712	TT	AA	AA	INTRON	101499291	sphingosine kinase 1
SNP_223_A_1942928	NC_021160.1	Ca_Kabuli_Chr01	1942928	GG	CC	CC	URR	101499291	sphingosine kinase 1
SNP_224_A_1950336	NC_021160.1	Ca_Kabuli_Chr01	1950336	AA	GG	GG	URR	101499608	uncharacterized LOC101499608
SNP_225_A_1950353	NC_021160.1	Ca_Kabuli_Chr01	1950353	CC	TT	TT	URR	101499608	uncharacterized LOC101499608
SNP_226_A_1951646	NC_021160.1	Ca_Kabuli_Chr01	1951646	GG	AA	AA	URR	101499608	uncharacterized LOC101499608
SNP_227_A_1953902	NC_021160.1	Ca_Kabuli_Chr01	1953902	AA	GG	GG	START_GAINED	101500251	B3 domain-containing protein Os07g0563300-like
SNP_228_A_1953910	NC_021160.1	Ca_Kabuli_Chr01	1953910	GG	AA	AA	INTERGENIC		
SNP_229_A_1953954	NC_021160.1	Ca_Kabuli_Chr01	1953954	CC	GG	GG	INTERGENIC		
SNP_230_A_1955370	NC_021160.1	Ca_Kabuli_Chr01	1955370	GG	AA	AA	INTRON	101500251	B3 domain-containing protein Os07g0563300-like
SNP_231_A_1957955	NC_021160.1	Ca_Kabuli_Chr01	1957955	GG	TT	TT	INTRON	101500251	B3 domain-containing protein Os07g0563300-like
SNP_232_A_1958005	NC_021160.1	Ca_Kabuli_Chr01	1958005	AA	GG	GG	INTRON	101500251	B3 domain-containing protein Os07g0563300-like
SNP_233_A_1960845	NC_021160.1	Ca_Kabuli_Chr01	1960845	GG	TT	TT	INTRON	101500251	B3 domain-containing protein Os07g0563300-like
SNP_235_A_1966074	NC_021160.1	Ca_Kabuli_Chr01	1966074	GG	AA	AA	INTERGENIC		
SNP_237_A_1966277	NC_021160.1	Ca_Kabuli_Chr01	1966277	GG	CC	CC	URR	101500566	syntaxin-124-like
SNP_239_A_1969232	NC_021160.1	Ca_Kabuli_Chr01	1969232	GG	AA	AA	INTERGENIC		
SNP_240_A_1969896	NC_021160.1	Ca_Kabuli_Chr01	1969896	AA	CC	CC	INTERGENIC		
SNP_241_A_1970117	NC_021160.1	Ca_Kabuli_Chr01	1970117	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_242_A_1980689	NC_021160.1	Ca_Kabuli_Chr01	1980689	AA	GG	GG	URR	101501207	uncharacterized LOC101501207
SNP_243_A_1982357	NC_021160.1	Ca_Kabuli_Chr01	1982357	AA	CC	CC	INTERGENIC		
SNP_246_A_1990518	NC_021160.1	Ca_Kabuli_Chr01	1990518	TT	GG	GG	URR	101502160	transmembrane protein 184A
SNP_247_A_1990548	NC_021160.1	Ca_Kabuli_Chr01	1990548	AA	CC	CC	URR	101502160	transmembrane protein 184A
SNP_249_A_1994818	NC_021160.1	Ca_Kabuli_Chr01	1994818	CC	TT	TT	DRR	101501521	quinone oxidoreductase PIG3-like
SNP_250_A_1995190	NC_021160.1	Ca_Kabuli_Chr01	1995190	AA	GG	GG	DRR	101501521	quinone oxidoreductase PIG3-like
SNP_251_A_1995256	NC_021160.1	Ca_Kabuli_Chr01	1995256	TT	CC	CC	DRR	101501521	quinone oxidoreductase PIG3-like
SNP_252_A_1995824	NC_021160.1	Ca_Kabuli_Chr01	1995824	GG	AA	AA	URR	101501836	quinone oxidoreductase PIG3-like
SNP_253_A_1996164	NC_021160.1	Ca_Kabuli_Chr01	1996164	AA	GG	GG	URR	101501836	quinone oxidoreductase PIG3-like
SNP_254_A_1996195	NC_021160.1	Ca_Kabuli_Chr01	1996195	AA	GG	GG	URR	101501836	quinone oxidoreductase PIG3-like
SNP_255_A_1996204	NC_021160.1	Ca_Kabuli_Chr01	1996204	TT	CC	CC	URR	101501836	quinone oxidoreductase PIG3-like
SNP_256_A_1996210	NC_021160.1	Ca_Kabuli_Chr01	1996210	GG	AA	AA	URR	101501836	quinone oxidoreductase PIG3-like
SNP_257_A_1996477	NC_021160.1	Ca_Kabuli_Chr01	1996477	CC	TT	TT	URR	101501836	quinone oxidoreductase PIG3-like
SNP_258_A_1997403	NC_021160.1	Ca_Kabuli_Chr01	1997403	GG	AA	AA	INTERGENIC		
SNP_259_A_1999819	NC_021160.1	Ca_Kabuli_Chr01	1999819	TT	CC	CC	URR	101501521	quinone oxidoreductase PIG3-like
SNP_260_A_2000396	NC_021160.1	Ca_Kabuli_Chr01	2000396	AA	GG	GG	URR	101501521	quinone oxidoreductase PIG3-like
SNP_261_A_2000624	NC_021160.1	Ca_Kabuli_Chr01	2000624	CC	AA	AA	URR	101501521	quinone oxidoreductase PIG3-like
SNP_262_A_2000708	NC_021160.1	Ca_Kabuli_Chr01	2000708	AA	CC	CC	INTERGENIC		
SNP_263_A_2000866	NC_021160.1	Ca_Kabuli_Chr01	2000866	TT	GG	GG	INTERGENIC		
SNP_264_A_2000875	NC_021160.1	Ca_Kabuli_Chr01	2000875	AA	GG	GG	INTERGENIC		
SNP_265_A_2000910	NC_021160.1	Ca_Kabuli_Chr01	2000910	TT	CC	CC	INTERGENIC		
SNP_266_A_2001023	NC_021160.1	Ca_Kabuli_Chr01	2001023	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_267_A_2001524	NC_021160.1	Ca_Kabuli_Chr01	2001524	GG	AA	AA	DRR	101502477	60S ribosomal protein L26-1
SNP_268_A_2001534	NC_021160.1	Ca_Kabuli_Chr01	2001534	AA	GG	GG	DRR	101502477	60S ribosomal protein L26-1
SNP_269_A_2001600	NC_021160.1	Ca_Kabuli_Chr01	2001600	TT	CC	CC	DRR	101502477	60S ribosomal protein L26-1
SNP_270_A_2004925	NC_021160.1	Ca_Kabuli_Chr01	2004925	CC	TT	TT	URR	101502477	60S ribosomal protein L26-1
SNP_271_A_2007162	NC_021160.1	Ca_Kabuli_Chr01	2007162	GG	AA	AA	URR	101502780	endonuclease 1
SNP_272_A_2007163	NC_021160.1	Ca_Kabuli_Chr01	2007163	TT	CC	CC	URR	101502780	endonuclease 1
SNP_273_A_2007165	NC_021160.1	Ca_Kabuli_Chr01	2007165	GG	AA	AA	URR	101502780	endonuclease 1
SNP_274_A_2007772	NC_021160.1	Ca_Kabuli_Chr01	2007772	TT	CC	CC	URR	101502780	endonuclease 1
SNP_275_A_2007791	NC_021160.1	Ca_Kabuli_Chr01	2007791	AA	GG	GG	URR	101502780	endonuclease 1
SNP_276_A_2008916	NC_021160.1	Ca_Kabuli_Chr01	2008916	TT	AA	AA	INTERGENIC		
SNP_277_A_2011968	NC_021160.1	Ca_Kabuli_Chr01	2011968	AA	GG	GG	INTRON	101503100	lysine histidine transporter-like 8
SNP_279_A_2015657	NC_021160.1	Ca_Kabuli_Chr01	2015657	GG	AA	AA	URR	101503100	lysine histidine transporter-like 8
SNP_280_A_2015884	NC_021160.1	Ca_Kabuli_Chr01	2015884	AA	CC	CC	URR	101503100	lysine histidine transporter-like 8
SNP_282_A_2023913	NC_021160.1	Ca_Kabuli_Chr01	2023913	TT	GG	GG	URR	101504093	putative glycine-rich cell wall structural protein 1
SNP_283_A_2023927	NC_021160.1	Ca_Kabuli_Chr01	2023927	TT	GG	GG	URR	101504093	putative glycine-rich cell wall structural protein 1
SNP_284_A_2023933	NC_021160.1	Ca_Kabuli_Chr01	2023933	GG	AA	AA	URR	101504093	putative glycine-rich cell wall structural protein 1
SNP_285_A_2024076	NC_021160.1	Ca_Kabuli_Chr01	2024076	AA	GG	GG	URR	101504093	putative glycine-rich cell wall structural protein 1
SNP_286_A_2028895	NC_021160.1	Ca_Kabuli_Chr01	2028895	AA	CC	CC	INTRON	101503765	secretory carrier-associated membrane protein-like
SNP_287_A_2029179	NC_021160.1	Ca_Kabuli_Chr01	2029179	TT	GG	GG	INTRON	101503765	secretory carrier-associated membrane protein-like
SNP_288_A_2042480	NC_021160.1	Ca_Kabuli_Chr01	2042480	GG	AA	AA	INTERGENIC		
SNP_289_A_2042810	NC_021160.1	Ca_Kabuli_Chr01	2042810	CC	TT	TT	INTERGENIC		
SNP_290_A_2043045	NC_021160.1	Ca_Kabuli_Chr01	2043045	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_291_A_2043455	NC_021160.1	Ca_Kabuli_Chr01	2043455	AA	TT	TT	INTERGENIC		
SNP_292_A_2054795	NC_021160.1	Ca_Kabuli_Chr01	2054795	TT	GG	GG	INTERGENIC		
SNP_293_A_2054811	NC_021160.1	Ca_Kabuli_Chr01	2054811	CC	TT	TT	INTERGENIC		
SNP_294_A_2054859	NC_021160.1	Ca_Kabuli_Chr01	2054859	TT	GG	GG	INTERGENIC		
SNP_295_A_2054871	NC_021160.1	Ca_Kabuli_Chr01	2054871	TT	CC	CC	INTERGENIC		
SNP_296_A_2055343	NC_021160.1	Ca_Kabuli_Chr01	2055343	TT	CC	CC	URR	101504943	putative disease resistance protein At3g14460
SNP_297_A_2055389	NC_021160.1	Ca_Kabuli_Chr01	2055389	CC	TT	TT	URR	101504943	putative disease resistance protein At3g14460
SNP_299_A_2058988	NC_021160.1	Ca_Kabuli_Chr01	2058988	AA	GG	GG	DRR	101510509	uncharacterized LOC101510509
SNP_300_A_2071879	NC_021160.1	Ca_Kabuli_Chr01	2071879	CC	TT	TT	URR	101505362	secretory carrier-associated membrane protein-like
SNP_301_A_2073955	NC_021160.1	Ca_Kabuli_Chr01	2073955	AA	GG	GG	NON_SYNONYMOUS_CODING	101505696	putative disease resistance protein At3g14460
SNP_303_A_2085573	NC_021160.1	Ca_Kabuli_Chr01	2085573	TT	GG	GG	URR	101506019	uncharacterized LOC101506019
SNP_304_A_2085606	NC_021160.1	Ca_Kabuli_Chr01	2085606	TT	CC	CC	URR	101506019	uncharacterized LOC101506019
SNP_306_A_2085661	NC_021160.1	Ca_Kabuli_Chr01	2085661	CC	TT	TT	URR	101506019	uncharacterized LOC101506019
SNP_307_A_2085820	NC_021160.1	Ca_Kabuli_Chr01	2085820	TT	CC	CC	URR	101506019	uncharacterized LOC101506019
SNP_308_A_2085839	NC_021160.1	Ca_Kabuli_Chr01	2085839	GG	AA	AA	URR	101506019	uncharacterized LOC101506019
SNP_309_A_2089650	NC_021160.1	Ca_Kabuli_Chr01	2089650	AA	GG	GG	INTERGENIC		
SNP_310_A_2095538	NC_021160.1	Ca_Kabuli_Chr01	2095538	AA	GG	GG	INTRON	101507433	uncharacterized LOC101507433
SNP_311_A_2101156	NC_021160.1	Ca_Kabuli_Chr01	2101156	TT	AA	AA	DRR	101507740	katanin p80 WD40 repeat-containing subunit B1 homolog
SNP_313_A_2109142	NC_021160.1	Ca_Kabuli_Chr01	2109142	TT	CC	CC	INTRON	101507740	katanin p80 WD40 repeat-containing subunit B1 homolog
SNP_314_A_2113196	NC_021160.1	Ca_Kabuli_Chr01	2113196	TT	AA	AA	URR	101507740	katanin p80 WD40 repeat-containing subunit B1 homolog
SNP_315_A_2113204	NC_021160.1	Ca_Kabuli_Chr01	2113204	AA	GG	GG	URR	101507740	katanin p80 WD40 repeat-containing subunit B1 homolog
SNP_316_A_2113229	NC_021160.1	Ca_Kabuli_Chr01	2113229	AA	GG	GG	URR	101507740	katanin p80 WD40 repeat-containing subunit B1 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_317_A_2117916	NC_021160.1	Ca_Kabuli_Chr01	2117916	AA	TT	TT	INTERGENIC			
SNP_318_A_2120345	NC_021160.1	Ca_Kabuli_Chr01	2120345	AA	TT	TT	INTERGENIC			
SNP_319_A_2121207	NC_021160.1	Ca_Kabuli_Chr01	2121207	CC	GG	GG	DRR	101508062	protein STRUBBELIG-RECEPTOR FAMILY 3-like	
SNP_320_A_2121211	NC_021160.1	Ca_Kabuli_Chr01	2121211	GG	AA	AA	DRR	101508062	protein STRUBBELIG-RECEPTOR FAMILY 3-like	
SNP_321_A_2121216	NC_021160.1	Ca_Kabuli_Chr01	2121216	TT	GG	GG	DRR	101508062	protein STRUBBELIG-RECEPTOR FAMILY 3-like	
SNP_322_A_2124581	NC_021160.1	Ca_Kabuli_Chr01	2124581	AA	GG	GG	INTRON	101508062	protein STRUBBELIG-RECEPTOR FAMILY 3-like	
SNP_323_A_2131319	NC_021160.1	Ca_Kabuli_Chr01	2131319	CC	GG	GG	URR	101508062	protein STRUBBELIG-RECEPTOR FAMILY 3-like	
SNP_324_A_2132052	NC_021160.1	Ca_Kabuli_Chr01	2132052	CC	AA	AA	INTERGENIC			
SNP_325_A_2132153	NC_021160.1	Ca_Kabuli_Chr01	2132153	CC	TT	TT	INTERGENIC			
SNP_326_A_2134817	NC_021160.1	Ca_Kabuli_Chr01	2134817	AA	TT	TT	INTERGENIC			
SNP_327_A_2135080	NC_021160.1	Ca_Kabuli_Chr01	2135080	CC	AA	AA	INTERGENIC			
SNP_328_A_2135082	NC_021160.1	Ca_Kabuli_Chr01	2135082	GG	CC	CC	INTERGENIC			
SNP_333_A_2466413	NC_021160.1	Ca_Kabuli_Chr01	2466413	CC	TT	TT	INTERGENIC			
SNP_334_A_2484031	NC_021160.1	Ca_Kabuli_Chr01	2484031	GG	AA	AA	DRR	101498434	protein RALF-like 19	
SNP_335_A_2560421	NC_021160.1	Ca_Kabuli_Chr01	2560421	GG	CC	CC	INTERGENIC			
SNP_336_A_2572677	NC_021160.1	Ca_Kabuli_Chr01	2572677	AA	TT	TT	URR	101501208	dof zinc finger protein DOF1.4	
SNP_337_A_2602735	NC_021160.1	Ca_Kabuli_Chr01	2602735	GG	AA	AA	INTERGENIC			
SNP_338_A_2622073	NC_021160.1	Ca_Kabuli_Chr01	2622073	GG	AA	AA	URR	101502583	auxin-repressed 12.5 kDa protein	
SNP_339_A_2647314	NC_021160.1	Ca_Kabuli_Chr01	2647314	GG	AA	AA	INTERGENIC			
SNP_340_A_2651145	NC_021160.1	Ca_Kabuli_Chr01	2651145	GG	AA	AA	URR	101504196	ethylene-responsive transcription factor 12	
SNP_341_A_2651437	NC_021160.1	Ca_Kabuli_Chr01	2651437	GG	AA	AA	URR	101504196	ethylene-responsive transcription factor 12	
SNP_342_A_2651487	NC_021160.1	Ca_Kabuli_Chr01	2651487	TT	CC	CC	URR	101504196	ethylene-responsive transcription factor 12	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_343_A_2651532	NC_021160.1	Ca_Kabuli_Chr01	2651532	TT	AA	AA	URR	101504196	ethylene-responsive transcription factor 12
SNP_344_A_2651537	NC_021160.1	Ca_Kabuli_Chr01	2651537	CC	TT	TT	URR	101504196	ethylene-responsive transcription factor 12
SNP_345_A_2652437	NC_021160.1	Ca_Kabuli_Chr01	2652437	AA	GG	GG	INTERGENIC		
SNP_346_A_2652448	NC_021160.1	Ca_Kabuli_Chr01	2652448	AA	GG	GG	INTERGENIC		
SNP_347_A_2652454	NC_021160.1	Ca_Kabuli_Chr01	2652454	CC	TT	TT	INTERGENIC		
SNP_348_A_2652810	NC_021160.1	Ca_Kabuli_Chr01	2652810	GG	AA	AA	INTERGENIC		
SNP_349_A_2652819	NC_021160.1	Ca_Kabuli_Chr01	2652819	TT	GG	GG	INTERGENIC		
SNP_350_A_2653077	NC_021160.1	Ca_Kabuli_Chr01	2653077	GG	CC	CC	INTERGENIC		
SNP_351_A_2653902	NC_021160.1	Ca_Kabuli_Chr01	2653902	TT	GG	GG	INTERGENIC		
SNP_352_A_2655055	NC_021160.1	Ca_Kabuli_Chr01	2655055	AA	CC	CC	INTERGENIC		
SNP_354_A_2660070	NC_021160.1	Ca_Kabuli_Chr01	2660070	TT	CC	CC	INTERGENIC		
SNP_355_A_2662108	NC_021160.1	Ca_Kabuli_Chr01	2662108	TT	CC	CC	INTERGENIC		
SNP_356_A_2662109	NC_021160.1	Ca_Kabuli_Chr01	2662109	CC	TT	TT	INTERGENIC		
SNP_358_A_2664439	NC_021160.1	Ca_Kabuli_Chr01	2664439	GG	AA	AA	INTERGENIC		
SNP_359_A_2666249	NC_021160.1	Ca_Kabuli_Chr01	2666249	TT	AA	AA	INTERGENIC		
SNP_360_A_2668554	NC_021160.1	Ca_Kabuli_Chr01	2668554	AA	GG	GG	INTERGENIC		
SNP_361_A_2673853	NC_021160.1	Ca_Kabuli_Chr01	2673853	CC	TT	TT	URR	101504527	ethylene-responsive transcription factor 4
SNP_362_A_2673896	NC_021160.1	Ca_Kabuli_Chr01	2673896	GG	TT	TT	INTERGENIC		
SNP_363_A_2674501	NC_021160.1	Ca_Kabuli_Chr01	2674501	TT	CC	CC	INTERGENIC		
SNP_365_A_2679942	NC_021160.1	Ca_Kabuli_Chr01	2679942	AA	TT	TT	INTERGENIC		
SNP_367_A_2688717	NC_021160.1	Ca_Kabuli_Chr01	2688717	CC	TT	TT	INTERGENIC		
SNP_368_A_2689482	NC_021160.1	Ca_Kabuli_Chr01	2689482	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_369_A_2689779	NC_021160.1	Ca_Kabuli_Chr01	2689779	CC	TT	TT	INTERGENIC			
SNP_370_A_2692373	NC_021160.1	Ca_Kabuli_Chr01	2692373	TT	CC	CC	DRR	101511791	uncharacterized protein At3g17950-like	
SNP_371_A_2692408	NC_021160.1	Ca_Kabuli_Chr01	2692408	AA	GG	GG	DRR	101511791	uncharacterized protein At3g17950-like	
SNP_372_A_2692422	NC_021160.1	Ca_Kabuli_Chr01	2692422	TT	CC	CC	DRR	101511791	uncharacterized protein At3g17950-like	
SNP_373_A_2692638	NC_021160.1	Ca_Kabuli_Chr01	2692638	GG	AA	AA	DRR	101511791	uncharacterized protein At3g17950-like	
SNP_374_A_2693536	NC_021160.1	Ca_Kabuli_Chr01	2693536	TT	CC	CC	INTRON	101511791	uncharacterized protein At3g17950-like	
SNP_375_A_2694190	NC_021160.1	Ca_Kabuli_Chr01	2694190	CC	GG	GG	INTRON	101511791	uncharacterized protein At3g17950-like	
SNP_376_A_2694193	NC_021160.1	Ca_Kabuli_Chr01	2694193	TT	CC	CC	INTRON	101511791	uncharacterized protein At3g17950-like	
SNP_377_A_2697954	NC_021160.1	Ca_Kabuli_Chr01	2697954	TT	CC	CC	INTERGENIC			
SNP_378_A_2697961	NC_021160.1	Ca_Kabuli_Chr01	2697961	CC	TT	TT	INTERGENIC			
SNP_379_A_2697988	NC_021160.1	Ca_Kabuli_Chr01	2697988	GG	AA	AA	INTERGENIC			
SNP_380_A_2701690	NC_021160.1	Ca_Kabuli_Chr01	2701690	AA	GG	GG	DRR	101508259	protein E6	
SNP_381_A_2702465	NC_021160.1	Ca_Kabuli_Chr01	2702465	AA	GG	GG	INTERGENIC			
SNP_383_A_2704321	NC_021160.1	Ca_Kabuli_Chr01	2704321	CC	AA	AA	URR	101508259	protein E6	
SNP_384_A_2707824	NC_021160.1	Ca_Kabuli_Chr01	2707824	CC	GG	GG	DRR	101508896	uncharacterized LOC101508896	
SNP_385_A_2740811	NC_021160.1	Ca_Kabuli_Chr01	2740811	GG	CC	CC	INTRON	101510178	uncharacterized LOC101510178	
SNP_386_A_2744871	NC_021160.1	Ca_Kabuli_Chr01	2744871	AA	GG	GG	DRR	101510733	pentatricopeptide repeat-containing protein At5g46100	
SNP_387_A_2745059	NC_021160.1	Ca_Kabuli_Chr01	2745059	TT	AA	AA	DRR	101510733	pentatricopeptide repeat-containing protein At5g46100	
SNP_388_A_2745748	NC_021160.1	Ca_Kabuli_Chr01	2745748	TT	CC	CC	URR	101510178	uncharacterized LOC101510178	
SNP_389_A_2762167	NC_021160.1	Ca_Kabuli_Chr01	2762167	TT	CC	CC	INTERGENIC			
SNP_390_A_2764501	NC_021160.1	Ca_Kabuli_Chr01	2764501	AA	GG	GG	INTERGENIC			
SNP_391_A_2765082	NC_021160.1	Ca_Kabuli_Chr01	2765082	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_392_A_2765580	NC_021160.1	Ca_Kabuli_Chr01	2765580	GG	AA	AA	INTERGENIC			
SNP_393_A_2765588	NC_021160.1	Ca_Kabuli_Chr01	2765588	GG	AA	AA	INTERGENIC			
SNP_394_A_2765595	NC_021160.1	Ca_Kabuli_Chr01	2765595	TT	CC	CC	INTERGENIC			
SNP_396_A_2769065	NC_021160.1	Ca_Kabuli_Chr01	2769065	AA	GG	GG	INTERGENIC			
SNP_397_A_2769134	NC_021160.1	Ca_Kabuli_Chr01	2769134	AA	GG	GG	INTERGENIC			
SNP_399_A_2769374	NC_021160.1	Ca_Kabuli_Chr01	2769374	GG	AA	AA	INTERGENIC			
SNP_400_A_2776049	NC_021160.1	Ca_Kabuli_Chr01	2776049	GG	AA	AA	INTERGENIC			
SNP_401_A_2777450	NC_021160.1	Ca_Kabuli_Chr01	2777450	TT	CC	CC	INTERGENIC			
SNP_402_A_2780466	NC_021160.1	Ca_Kabuli_Chr01	2780466	CC	AA	AA	DRR		101511692	receptor-like protein kinase HSL1
SNP_403_A_2788788	NC_021160.1	Ca_Kabuli_Chr01	2788788	CC	GG	GG	INTERGENIC			
SNP_404_A_2789362	NC_021160.1	Ca_Kabuli_Chr01	2789362	TT	AA	AA	URR		101512237	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A-like
SNP_405_A_2789372	NC_021160.1	Ca_Kabuli_Chr01	2789372	AA	TT	TT	URR		101512237	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A-like
SNP_406_A_2789385	NC_021160.1	Ca_Kabuli_Chr01	2789385	TT	CC	CC	URR		101512237	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A-like
SNP_407_A_2789440	NC_021160.1	Ca_Kabuli_Chr01	2789440	CC	TT	TT	URR		101512237	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A-like
SNP_408_A_2790247	NC_021160.1	Ca_Kabuli_Chr01	2790247	CC	GG	GG	URR		101512237	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A-like
SNP_409_A_2791469	NC_021160.1	Ca_Kabuli_Chr01	2791469	TT	AA	AA	DRR		101512565	serine/threonine-protein kinase-like protein ACR4
SNP_410_A_2791745	NC_021160.1	Ca_Kabuli_Chr01	2791745	GG	AA	AA	DRR		101512565	serine/threonine-protein kinase-like protein ACR4
SNP_411_A_2795873	NC_021160.1	Ca_Kabuli_Chr01	2795873	CC	TT	TT	INTERGENIC			
SNP_412_A_2795877	NC_021160.1	Ca_Kabuli_Chr01	2795877	CC	AA	AA	INTERGENIC			
SNP_413_A_2795899	NC_021160.1	Ca_Kabuli_Chr01	2795899	AA	TT	TT	INTERGENIC			
SNP_414_A_2796205	NC_021160.1	Ca_Kabuli_Chr01	2796205	AA	GG	GG	INTERGENIC			
SNP_416_A_2797376	NC_021160.1	Ca_Kabuli_Chr01	2797376	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_419_A_2802664	NC_021160.1	Ca_Kabuli_Chr01	2802664	AA	GG	GG	INTRON	101512871	NAC domain-containing protein 73-like
SNP_420_A_2802706	NC_021160.1	Ca_Kabuli_Chr01	2802706	CC	TT	TT	INTRON	101512871	NAC domain-containing protein 73-like
SNP_421_A_2803286	NC_021160.1	Ca_Kabuli_Chr01	2803286	AA	GG	GG	SYNONYMOUS_STOP	101512871	NAC domain-containing protein 73-like
SNP_422_A_2803410	NC_021160.1	Ca_Kabuli_Chr01	2803410	TT	AA	AA	NON_SYNONYMOUS_CODING	101512871	NAC domain-containing protein 73-like
SNP_423_A_2809873	NC_021160.1	Ca_Kabuli_Chr01	2809873	TT	CC	CC	URR	101513197	putative disease resistance protein At3g14460
SNP_424_A_2814901	NC_021160.1	Ca_Kabuli_Chr01	2814901	CC	AA	AA	INTERGENIC		
SNP_425_A_2814918	NC_021160.1	Ca_Kabuli_Chr01	2814918	TT	CC	CC	INTERGENIC		
SNP_426_A_2814972	NC_021160.1	Ca_Kabuli_Chr01	2814972	TT	CC	CC	INTERGENIC		
SNP_427_A_2814994	NC_021160.1	Ca_Kabuli_Chr01	2814994	TT	CC	CC	INTERGENIC		
SNP_428_A_2815008	NC_021160.1	Ca_Kabuli_Chr01	2815008	AA	TT	TT	INTERGENIC		
SNP_429_A_2815010	NC_021160.1	Ca_Kabuli_Chr01	2815010	AA	CC	CC	INTERGENIC		
SNP_430_A_2815135	NC_021160.1	Ca_Kabuli_Chr01	2815135	TT	CC	CC	INTERGENIC		
SNP_431_A_2815211	NC_021160.1	Ca_Kabuli_Chr01	2815211	CC	GG	GG	INTERGENIC		
SNP_432_A_2815266	NC_021160.1	Ca_Kabuli_Chr01	2815266	TT	AA	AA	INTERGENIC		
SNP_433_A_2830832	NC_021160.1	Ca_Kabuli_Chr01	2830832	AA	GG	GG	INTERGENIC		
SNP_434_A_2830873	NC_021160.1	Ca_Kabuli_Chr01	2830873	TT	CC	CC	INTERGENIC		
SNP_435_A_2836428	NC_021160.1	Ca_Kabuli_Chr01	2836428	AA	CC	CC	INTRON	101513952	auxin response factor 3-like
SNP_436_A_2836682	NC_021160.1	Ca_Kabuli_Chr01	2836682	GG	AA	AA	NON_SYNONYMOUS_CODING	101513952	auxin response factor 3-like
SNP_438_A_2838540	NC_021160.1	Ca_Kabuli_Chr01	2838540	AA	TT	TT	URR	101513952	auxin response factor 3-like
SNP_439_A_2844647	NC_021160.1	Ca_Kabuli_Chr01	2844647	TT	CC	CC	INTERGENIC		
SNP_440_A_2844664	NC_021160.1	Ca_Kabuli_Chr01	2844664	TT	GG	GG	INTERGENIC		
SNP_441_A_2844683	NC_021160.1	Ca_Kabuli_Chr01	2844683	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_442_A_2844960	NC_021160.1	Ca_Kabuli_Chr01	2844960	GG	AA	AA	INTERGENIC		
SNP_443_A_2844963	NC_021160.1	Ca_Kabuli_Chr01	2844963	AA	GG	GG	INTERGENIC		
SNP_444_A_2844978	NC_021160.1	Ca_Kabuli_Chr01	2844978	TT	AA	AA	INTERGENIC		
SNP_445_A_2850128	NC_021160.1	Ca_Kabuli_Chr01	2850128	GG	AA	AA	INTERGENIC		
SNP_446_A_2850130	NC_021160.1	Ca_Kabuli_Chr01	2850130	GG	AA	AA	INTERGENIC		
SNP_447_A_2850472	NC_021160.1	Ca_Kabuli_Chr01	2850472	AA	TT	TT	INTERGENIC		
SNP_448_A_2850581	NC_021160.1	Ca_Kabuli_Chr01	2850581	TT	CC	CC	INTERGENIC		
SNP_449_A_2850638	NC_021160.1	Ca_Kabuli_Chr01	2850638	AA	GG	GG	INTERGENIC		
SNP_451_A_2851137	NC_021160.1	Ca_Kabuli_Chr01	2851137	AA	TT	TT	INTERGENIC		
SNP_452_A_2852034	NC_021160.1	Ca_Kabuli_Chr01	2852034	CC	AA	AA	INTERGENIC		
SNP_453_A_2860292	NC_021160.1	Ca_Kabuli_Chr01	2860292	GG	AA	AA	DRR	101515038	OPA3-like protein
SNP_455_A_2864271	NC_021160.1	Ca_Kabuli_Chr01	2864271	TT	AA	AA	INTRON	101515038	OPA3-like protein
SNP_456_A_2867393	NC_021160.1	Ca_Kabuli_Chr01	2867393	CC	TT	TT	DRR	101515361	uncharacterized LOC101515361
SNP_457_A_2867918	NC_021160.1	Ca_Kabuli_Chr01	2867918	TT	GG	GG	DRR	101515361	uncharacterized LOC101515361
SNP_458_A_2867920	NC_021160.1	Ca_Kabuli_Chr01	2867920	GG	TT	TT	DRR	101515361	uncharacterized LOC101515361
SNP_459_A_2868942	NC_021160.1	Ca_Kabuli_Chr01	2868942	AA	GG	GG	INTERGENIC		
SNP_460_A_2871342	NC_021160.1	Ca_Kabuli_Chr01	2871342	CC	AA	AA	NON_SYNONYMOUS_CODING	101515361	uncharacterized LOC101515361
SNP_461_A_2872477	NC_021160.1	Ca_Kabuli_Chr01	2872477	AA	GG	GG	NON_SYNONYMOUS_CODING	101515361	uncharacterized LOC101515361
SNP_462_A_2874401	NC_021160.1	Ca_Kabuli_Chr01	2874401	CC	TT	TT	URR	101515361	uncharacterized LOC101515361
SNP_463_A_2874413	NC_021160.1	Ca_Kabuli_Chr01	2874413	GG	TT	TT	URR	101515361	uncharacterized LOC101515361
SNP_464_A_2875237	NC_021160.1	Ca_Kabuli_Chr01	2875237	TT	GG	GG	DRR	101515694	anthocyanidin 3-O-glucoside 2"-O-glucosyltransferase
SNP_465_A_2882678	NC_021160.1	Ca_Kabuli_Chr01	2882678	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_466_A_2884713	NC_021160.1	Ca_Kabuli_Chr01	2884713	GG	TT	TT	INTERGENIC		
SNP_467_A_2884747	NC_021160.1	Ca_Kabuli_Chr01	2884747	AA	GG	GG	INTERGENIC		
SNP_468_A_2884748	NC_021160.1	Ca_Kabuli_Chr01	2884748	CC	GG	GG	INTERGENIC		
SNP_469_A_2885175	NC_021160.1	Ca_Kabuli_Chr01	2885175	TT	CC	CC	INTERGENIC		
SNP_470_A_2885242	NC_021160.1	Ca_Kabuli_Chr01	2885242	AA	CC	CC	INTERGENIC		
SNP_471_A_2885262	NC_021160.1	Ca_Kabuli_Chr01	2885262	TT	CC	CC	INTERGENIC		
SNP_473_A_2885395	NC_021160.1	Ca_Kabuli_Chr01	2885395	GG	AA	AA	INTERGENIC		
SNP_474_A_2885580	NC_021160.1	Ca_Kabuli_Chr01	2885580	AA	GG	GG	INTERGENIC		
SNP_475_A_2887372	NC_021160.1	Ca_Kabuli_Chr01	2887372	CC	TT	TT	DRR	101488453	uncharacterized LOC101488453
SNP_476_A_2890399	NC_021160.1	Ca_Kabuli_Chr01	2890399	GG	AA	AA	URR	101488453	uncharacterized LOC101488453
SNP_477_A_2893280	NC_021160.1	Ca_Kabuli_Chr01	2893280	AA	TT	TT	URR	101488789	28 kDa heat- and acid-stable phosphoprotein-like
SNP_478_A_2897359	NC_021160.1	Ca_Kabuli_Chr01	2897359	TT	GG	GG	INTERGENIC		
SNP_479_A_2899962	NC_021160.1	Ca_Kabuli_Chr01	2899962	GG	AA	AA	INTRON	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_480_A_2899986	NC_021160.1	Ca_Kabuli_Chr01	2899986	CC	TT	TT	INTRON	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_481_A_2900990	NC_021160.1	Ca_Kabuli_Chr01	2900990	CC	TT	TT	SYNONYMOUS_CODING	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_482_A_2900991	NC_021160.1	Ca_Kabuli_Chr01	2900991	AA	GG	GG	NON_SYNONYMOUS_CODING	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_483_A_2901036	NC_021160.1	Ca_Kabuli_Chr01	2901036	AA	GG	GG	INTRON	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_484_A_2901128	NC_021160.1	Ca_Kabuli_Chr01	2901128	GG	AA	AA	INTRON	101489119	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_486_A_2903730	NC_021160.1	Ca_Kabuli_Chr01	2903730	TT	AA	AA	INTERGENIC		
SNP_487_A_2909146	NC_021160.1	Ca_Kabuli_Chr01	2909146	CC	TT	TT	INTERGENIC		
SNP_488_A_2916932	NC_021160.1	Ca_Kabuli_Chr01	2916932	AA	CC	CC	INTRON	101490093	WUSCHEL-related homeobox 9-like
SNP_489_A_2916943	NC_021160.1	Ca_Kabuli_Chr01	2916943	CC	TT	TT	INTRON	101490093	WUSCHEL-related homeobox 9-like

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SNP_490_A_2920251	NC_021160.1	Ca_Kabuli_Chr01	2920251	CC	TT	TT	URR	101490093	WUSCHEL-related homeobox 9-like
SNP_491_A_2921252	NC_021160.1	Ca_Kabuli_Chr01	2921252	GG	CC	CC	INTERGENIC		
SNP_493_A_2923750	NC_021160.1	Ca_Kabuli_Chr01	2923750	TT	CC	CC	INTERGENIC		
SNP_494_A_2923803	NC_021160.1	Ca_Kabuli_Chr01	2923803	TT	CC	CC	INTERGENIC		
SNP_495_A_2923805	NC_021160.1	Ca_Kabuli_Chr01	2923805	AA	GG	GG	INTERGENIC		
SNP_496_A_2923853	NC_021160.1	Ca_Kabuli_Chr01	2923853	CC	GG	GG	INTERGENIC		
SNP_497_A_2924591	NC_021160.1	Ca_Kabuli_Chr01	2924591	CC	AA	AA	INTERGENIC		
SNP_498_A_2925329	NC_021160.1	Ca_Kabuli_Chr01	2925329	CC	TT	TT	INTERGENIC		
SNP_499_A_2925615	NC_021160.1	Ca_Kabuli_Chr01	2925615	AA	CC	CC	INTERGENIC		
SNP_500_A_2925694	NC_021160.1	Ca_Kabuli_Chr01	2925694	AA	GG	GG	INTERGENIC		
SNP_501_A_2926106	NC_021160.1	Ca_Kabuli_Chr01	2926106	AA	GG	GG	INTERGENIC		
SNP_502_A_2927445	NC_021160.1	Ca_Kabuli_Chr01	2927445	CC	TT	TT	INTERGENIC		
SNP_503_A_2928022	NC_021160.1	Ca_Kabuli_Chr01	2928022	AA	TT	TT	INTERGENIC		
SNP_504_A_2933840	NC_021160.1	Ca_Kabuli_Chr01	2933840	AA	TT	TT	INTRON	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_505_A_2933841	NC_021160.1	Ca_Kabuli_Chr01	2933841	GG	AA	AA	INTRON	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_506_A_2937902	NC_021160.1	Ca_Kabuli_Chr01	2937902	TT	AA	AA	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_507_A_2937903	NC_021160.1	Ca_Kabuli_Chr01	2937903	CC	AA	AA	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_508_A_2938188	NC_021160.1	Ca_Kabuli_Chr01	2938188	TT	GG	GG	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_509_A_2938226	NC_021160.1	Ca_Kabuli_Chr01	2938226	TT	CC	CC	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_510_A_2938520	NC_021160.1	Ca_Kabuli_Chr01	2938520	AA	TT	TT	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_511_A_2938832	NC_021160.1	Ca_Kabuli_Chr01	2938832	TT	AA	AA	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic
SNP_512_A_2939100	NC_021160.1	Ca_Kabuli_Chr01	2939100	AA	GG	GG	URR	101490634	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]carboxamide isomerase, chloroplatic

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SNP_513_A_2939867	NC_021160.1	Ca_Kabuli_Chr01	2939867	TT	CC	CC	INTERGENIC			
SNP_514_A_2944539	NC_021160.1	Ca_Kabuli_Chr01	2944539	GG	AA	AA	INTERGENIC			
SNP_515_A_2944579	NC_021160.1	Ca_Kabuli_Chr01	2944579	GG	AA	AA	INTERGENIC			
SNP_516_A_2944580	NC_021160.1	Ca_Kabuli_Chr01	2944580	TT	AA	AA	INTERGENIC			
SNP_517_A_2945645	NC_021160.1	Ca_Kabuli_Chr01	2945645	TT	CC	CC	INTERGENIC			
SNP_518_A_2945655	NC_021160.1	Ca_Kabuli_Chr01	2945655	GG	AA	AA	INTERGENIC			
SNP_520_A_2949817	NC_021160.1	Ca_Kabuli_Chr01	2949817	TT	CC	CC	URR	101490960		pathogenesis-related genes transcriptional activator PTI5-like
SNP_521_A_2962316	NC_021160.1	Ca_Kabuli_Chr01	2962316	CC	GG	GG	INTERGENIC			
SNP_522_A_2963250	NC_021160.1	Ca_Kabuli_Chr01	2963250	AA	TT	TT	INTERGENIC			
SNP_524_A_2971307	NC_021160.1	Ca_Kabuli_Chr01	2971307	TT	CC	CC	DRR	101491595		GDSL esterase/lipase At5g45960-like
SNP_525_A_2971309	NC_021160.1	Ca_Kabuli_Chr01	2971309	TT	AA	AA	DRR	101491595		GDSL esterase/lipase At5g45960-like
SNP_526_A_2972695	NC_021160.1	Ca_Kabuli_Chr01	2972695	TT	GG	GG	INTRON	101491595		GDSL esterase/lipase At5g45960-like
SNP_529_A_2988398	NC_021160.1	Ca_Kabuli_Chr01	2988398	AA	TT	TT	DRR	101491907		glutamate receptor 2.7-like
SNP_530_A_2993257	NC_021160.1	Ca_Kabuli_Chr01	2993257	AA	TT	TT	INTRON	101491907		glutamate receptor 2.7-like
SNP_531_A_2993297	NC_021160.1	Ca_Kabuli_Chr01	2993297	CC	TT	TT	NON_SYNONYMOUS_CODING	101491907		glutamate receptor 2.7-like
SNP_532_A_2994160	NC_021160.1	Ca_Kabuli_Chr01	2994160	TT	GG	GG	DRR	101492787		probable ATP-dependent RNA helicase DHX35
SNP_533_A_2997048	NC_021160.1	Ca_Kabuli_Chr01	2997048	TT	GG	GG	INTRON	DHX35		Unknown function
SNP_534_A_3001747	NC_021160.1	Ca_Kabuli_Chr01	3001747	GG	TT	TT	INTRON	DHX35		Unknown function
SNP_536_A_3004106	NC_021160.1	Ca_Kabuli_Chr01	3004106	CC	TT	TT	DRR	101493117		pentatricopeptide repeat-containing protein At4g13850
SNP_537_A_3005367	NC_021160.1	Ca_Kabuli_Chr01	3005367	CC	GG	GG	DOWNSTREAM	DHX35		Unknown function
SNP_538_A_3007432	NC_021160.1	Ca_Kabuli_Chr01	3007432	AA	GG	GG	INTERGENIC			
SNP_539_A_3010481	NC_021160.1	Ca_Kabuli_Chr01	3010481	GG	CC	CC	DRR	101513083		uncharacterized LOC101513083

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_540_A_3012542	NC_021160.1	Ca_Kabuli_Chr01	3012542	AA	GG	GG	INTERGENIC			
SNP_541_A_3013626	NC_021160.1	Ca_Kabuli_Chr01	3013626	CC	AA	AA	URR	101513083		uncharacterized LOC101513083
SNP_542_A_3016414	NC_021160.1	Ca_Kabuli_Chr01	3016414	AA	GG	GG	INTERGENIC			
SNP_543_A_3016434	NC_021160.1	Ca_Kabuli_Chr01	3016434	CC	TT	TT	INTERGENIC			
SNP_544_A_3016436	NC_021160.1	Ca_Kabuli_Chr01	3016436	CC	TT	TT	INTERGENIC			
SNP_546_A_3024912	NC_021160.1	Ca_Kabuli_Chr01	3024912	TT	CC	CC	DRR	101493447		protein IQ-DOMAIN 1
SNP_547_A_3027551	NC_021160.1	Ca_Kabuli_Chr01	3027551	TT	CC	CC	INTERGENIC			
SNP_548_A_3027744	NC_021160.1	Ca_Kabuli_Chr01	3027744	AA	TT	TT	INTERGENIC			
SNP_549_A_3028925	NC_021160.1	Ca_Kabuli_Chr01	3028925	GG	AA	AA	INTERGENIC			
SNP_550_A_3029900	NC_021160.1	Ca_Kabuli_Chr01	3029900	CC	TT	TT	INTERGENIC			
SNP_551_A_3033272	NC_021160.1	Ca_Kabuli_Chr01	3033272	TT	CC	CC	DRR	101494512		magnesium-chelatase subunit ChII, chloroplastic-like
SNP_552_A_3034187	NC_021160.1	Ca_Kabuli_Chr01	3034187	TT	CC	CC	URR	101494205		nudix hydrolase 15, mitochondrial
SNP_553_A_3035394	NC_021160.1	Ca_Kabuli_Chr01	3035394	GG	TT	TT	INTERGENIC			
SNP_554_A_3039110	NC_021160.1	Ca_Kabuli_Chr01	3039110	GG	TT	TT	URR	101494826		3'-N-debenzoyl-2'-deoxytaxol N-benzoyltransferase
SNP_555_A_3039133	NC_021160.1	Ca_Kabuli_Chr01	3039133	TT	CC	CC	URR	101494826		3'-N-debenzoyl-2'-deoxytaxol N-benzoyltransferase
SNP_556_A_3040583	NC_021160.1	Ca_Kabuli_Chr01	3040583	AA	CC	CC	URR	101494826		3'-N-debenzoyl-2'-deoxytaxol N-benzoyltransferase
SNP_558_A_3042449	NC_021160.1	Ca_Kabuli_Chr01	3042449	TT	CC	CC	INTERGENIC			
SNP_560_A_3045315	NC_021160.1	Ca_Kabuli_Chr01	3045315	AA	GG	GG	INTERGENIC			
SNP_561_A_3045381	NC_021160.1	Ca_Kabuli_Chr01	3045381	AA	GG	GG	DRR	101495155		GDGL esterase/lipase At5g45920
SNP_563_A_3046044	NC_021160.1	Ca_Kabuli_Chr01	3046044	AA	GG	GG	DRR	101495155		GDGL esterase/lipase At5g45920
SNP_565_A_3055105	NC_021160.1	Ca_Kabuli_Chr01	3055105	AA	GG	GG	DRR	101496016		pentatricopeptide repeat-containing protein At1g28690, mitochondrial
SNP_566_A_3055137	NC_021160.1	Ca_Kabuli_Chr01	3055137	AA	GG	GG	DRR	101496016		pentatricopeptide repeat-containing protein At1g28690, mitochondrial

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_567_A_3055367	NC_021160.1	Ca_Kabuli_Chr01	3055367	GG	TT	TT	DRR	101496016	pentatricopeptide repeat-containing protein At1g28690, mitochondrial
SNP_568_A_3066352	NC_021160.1	Ca_Kabuli_Chr01	3066352	AA	GG	GG	INTERGENIC		
SNP_569_A_3066367	NC_021160.1	Ca_Kabuli_Chr01	3066367	GG	CC	CC	INTERGENIC		
SNP_570_A_3068568	NC_021160.1	Ca_Kabuli_Chr01	3068568	AA	TT	TT	INTERGENIC		
SNP_571_A_3068579	NC_021160.1	Ca_Kabuli_Chr01	3068579	AA	GG	GG	INTERGENIC		
SNP_572_A_3070744	NC_021160.1	Ca_Kabuli_Chr01	3070744	TT	CC	CC	URR	101496685	pyruvate decarboxylase 1
SNP_573_A_3070769	NC_021160.1	Ca_Kabuli_Chr01	3070769	CC	GG	GG	URR	101496685	pyruvate decarboxylase 1
SNP_574_A_3072472	NC_021160.1	Ca_Kabuli_Chr01	3072472	CC	TT	TT	DRR	101496997	GDSL esterase/lipase At1g28610-like
SNP_575_A_3072474	NC_021160.1	Ca_Kabuli_Chr01	3072474	GG	AA	AA	DRR	101496997	GDSL esterase/lipase At1g28610-like
SNP_576_A_3072499	NC_021160.1	Ca_Kabuli_Chr01	3072499	TT	CC	CC	DRR	101496997	GDSL esterase/lipase At1g28610-like
SNP_577_A_3072500	NC_021160.1	Ca_Kabuli_Chr01	3072500	CC	AA	AA	DRR	101496997	GDSL esterase/lipase At1g28610-like
SNP_579_A_3074596	NC_021160.1	Ca_Kabuli_Chr01	3074596	GG	AA	AA	INTERGENIC		
SNP_580_A_3074599	NC_021160.1	Ca_Kabuli_Chr01	3074599	GG	TT	TT	INTERGENIC		
SNP_581_A_3075053	NC_021160.1	Ca_Kabuli_Chr01	3075053	TT	AA	AA	INTERGENIC		
SNP_582_A_3075170	NC_021160.1	Ca_Kabuli_Chr01	3075170	GG	AA	AA	INTERGENIC		
SNP_583_A_3075523	NC_021160.1	Ca_Kabuli_Chr01	3075523	AA	GG	GG	INTRON	101496997	GDSL esterase/lipase At1g28610-like
SNP_584_A_3075533	NC_021160.1	Ca_Kabuli_Chr01	3075533	AA	TT	TT	INTRON	101496997	GDSL esterase/lipase At1g28610-like
SNP_585_A_3075869	NC_021160.1	Ca_Kabuli_Chr01	3075869	TT	GG	GG	INTRON	101496997	GDSL esterase/lipase At1g28610-like
SNP_586_A_3076395	NC_021160.1	Ca_Kabuli_Chr01	3076395	GG	AA	AA	INTRON	101496997	GDSL esterase/lipase At1g28610-like
SNP_587_A_3079294	NC_021160.1	Ca_Kabuli_Chr01	3079294	AA	GG	GG	DRR	101497322	GDSL esterase/lipase At2g27360-like
SNP_588_A_3079297	NC_021160.1	Ca_Kabuli_Chr01	3079297	TT	CC	CC	DRR	101497322	GDSL esterase/lipase At2g27360-like
SNP_589_A_3079319	NC_021160.1	Ca_Kabuli_Chr01	3079319	CC	TT	TT	DRR	101497322	GDSL esterase/lipase At2g27360-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_590_A_3079368	NC_021160.1	Ca_Kabuli_Chr01	3079368	CC	TT	TT	DRR	101497322	GDSL esterase/lipase At2g27360-like
SNP_591_A_3079459	NC_021160.1	Ca_Kabuli_Chr01	3079459	TT	CC	CC	DRR	101497322	GDSL esterase/lipase At2g27360-like
SNP_592_A_3080992	NC_021160.1	Ca_Kabuli_Chr01	3080992	TT	CC	CC	INTERGENIC		
SNP_593_A_3081553	NC_021160.1	Ca_Kabuli_Chr01	3081553	TT	AA	AA	INTERGENIC		
SNP_594_A_3081585	NC_021160.1	Ca_Kabuli_Chr01	3081585	GG	AA	AA	INTERGENIC		
SNP_595_A_3082811	NC_021160.1	Ca_Kabuli_Chr01	3082811	CC	TT	TT	DRR	101497643	GDSL esterase/lipase At5g45910-like
SNP_596_A_3082818	NC_021160.1	Ca_Kabuli_Chr01	3082818	GG	TT	TT	DRR	101497643	GDSL esterase/lipase At5g45910-like
SNP_598_A_3083540	NC_021160.1	Ca_Kabuli_Chr01	3083540	GG	AA	AA	DRR	101497643	GDSL esterase/lipase At5g45910-like
SNP_599_A_3084224	NC_021160.1	Ca_Kabuli_Chr01	3084224	CC	TT	TT	URR	101497322	GDSL esterase/lipase At2g27360-like
SNP_600_A_3084234	NC_021160.1	Ca_Kabuli_Chr01	3084234	TT	AA	AA	URR	101497322	GDSL esterase/lipase At2g27360-like
SNP_601_A_3085065	NC_021160.1	Ca_Kabuli_Chr01	3085065	AA	GG	GG	URR	101497322	GDSL esterase/lipase At2g27360-like
SNP_602_A_3085149	NC_021160.1	Ca_Kabuli_Chr01	3085149	CC	TT	TT	URR	101497322	GDSL esterase/lipase At2g27360-like
SNP_603_A_3085252	NC_021160.1	Ca_Kabuli_Chr01	3085252	CC	TT	TT	URR	101497322	GDSL esterase/lipase At2g27360-like
SNP_604_A_3085718	NC_021160.1	Ca_Kabuli_Chr01	3085718	GG	AA	AA	INTERGENIC		
SNP_605_A_3086160	NC_021160.1	Ca_Kabuli_Chr01	3086160	AA	TT	TT	INTERGENIC		
SNP_606_A_3086211	NC_021160.1	Ca_Kabuli_Chr01	3086211	TT	CC	CC	INTERGENIC		
SNP_607_A_3086434	NC_021160.1	Ca_Kabuli_Chr01	3086434	AA	TT	TT	INTERGENIC		
SNP_608_A_3088072	NC_021160.1	Ca_Kabuli_Chr01	3088072	TT	AA	AA	URR	101497643	GDSL esterase/lipase At5g45910-like
SNP_609_A_3088219	NC_021160.1	Ca_Kabuli_Chr01	3088219	AA	CC	CC	URR	101497643	GDSL esterase/lipase At5g45910-like
SNP_610_A_3088814	NC_021160.1	Ca_Kabuli_Chr01	3088814	GG	CC	CC	INTERGENIC		
SNP_611_A_3089223	NC_021160.1	Ca_Kabuli_Chr01	3089223	AA	TT	TT	URR	101497979	40S ribosomal protein S27-2-like
SNP_613_A_3091639	NC_021160.1	Ca_Kabuli_Chr01	3091639	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_615_A_3096336	NC_021160.1	Ca_Kabuli_Chr01	3096336	GG	AA	AA	INTERGENIC		
SNP_616_A_3100100	NC_021160.1	Ca_Kabuli_Chr01	3100100	CC	GG	GG	INTERGENIC		
SNP_617_A_3100353	NC_021160.1	Ca_Kabuli_Chr01	3100353	AA	GG	GG	INTERGENIC		
SNP_618_A_3100382	NC_021160.1	Ca_Kabuli_Chr01	3100382	CC	GG	GG	INTERGENIC		
SNP_619_A_3100514	NC_021160.1	Ca_Kabuli_Chr01	3100514	TT	GG	GG	INTERGENIC		
SNP_620_A_3100557	NC_021160.1	Ca_Kabuli_Chr01	3100557	CC	TT	TT	INTERGENIC		
SNP_621_A_3102387	NC_021160.1	Ca_Kabuli_Chr01	3102387	CC	TT	TT	INTERGENIC		
SNP_623_A_3107490	NC_021160.1	Ca_Kabuli_Chr01	3107490	CC	AA	AA	URR	101513411	galactose oxidase-like
SNP_624_A_3111069	NC_021160.1	Ca_Kabuli_Chr01	3111069	CC	AA	AA	INTERGENIC		
SNP_625_A_3113477	NC_021160.1	Ca_Kabuli_Chr01	3113477	TT	AA	AA	INTERGENIC		
SNP_626_A_3113534	NC_021160.1	Ca_Kabuli_Chr01	3113534	GG	AA	AA	INTERGENIC		
SNP_628_A_3119612	NC_021160.1	Ca_Kabuli_Chr01	3119612	GG	AA	AA	INTERGENIC		
SNP_630_A_3132980	NC_021160.1	Ca_Kabuli_Chr01	3132980	TT	AA	AA	DRR	101410577	transfer RNA alanine (anticodon UGC)
SNP_631_A_3133394	NC_021160.1	Ca_Kabuli_Chr01	3133394	GG	TT	TT	DRR	101410577	transfer RNA alanine (anticodon UGC)
SNP_632_A_3136229	NC_021160.1	Ca_Kabuli_Chr01	3136229	GG	TT	TT	URR	101499293	50S ribosomal protein L34, chloroplastic
SNP_633_A_3137051	NC_021160.1	Ca_Kabuli_Chr01	3137051	CC	TT	TT	URR	101499293	50S ribosomal protein L34, chloroplastic
SNP_634_A_3137080	NC_021160.1	Ca_Kabuli_Chr01	3137080	TT	CC	CC	URR	101499293	50S ribosomal protein L34, chloroplastic
SNP_636_A_3150341	NC_021160.1	Ca_Kabuli_Chr01	3150341	TT	CC	CC	DRR	101500253	U-box domain-containing protein 7
SNP_637_A_3150356	NC_021160.1	Ca_Kabuli_Chr01	3150356	GG	AA	AA	DRR	101500253	U-box domain-containing protein 7
SNP_638_A_3150360	NC_021160.1	Ca_Kabuli_Chr01	3150360	GG	AA	AA	DRR	101500253	U-box domain-containing protein 7
SNP_639_A_3150362	NC_021160.1	Ca_Kabuli_Chr01	3150362	CC	TT	TT	DRR	101500253	U-box domain-containing protein 7
SNP_640_A_3150381	NC_021160.1	Ca_Kabuli_Chr01	3150381	TT	GG	GG	DRR	101500253	U-box domain-containing protein 7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_641_A_3150386	NC_021160.1	Ca_Kabuli_Chr01	3150386	TT	GG	GG	DRR	101500253	U-box domain-containing protein 7
SNP_642_A_3150568	NC_021160.1	Ca_Kabuli_Chr01	3150568	TT	CC	CC	DRR	101500253	U-box domain-containing protein 7
SNP_643_A_3150611	NC_021160.1	Ca_Kabuli_Chr01	3150611	GG	AA	AA	DRR	101500253	U-box domain-containing protein 7
SNP_644_A_3150639	NC_021160.1	Ca_Kabuli_Chr01	3150639	TT	AA	AA	DRR	101500253	U-box domain-containing protein 7
SNP_645_A_3150664	NC_021160.1	Ca_Kabuli_Chr01	3150664	CC	TT	TT	DRR	101500253	U-box domain-containing protein 7
SNP_646_A_3150683	NC_021160.1	Ca_Kabuli_Chr01	3150683	AA	TT	TT	DRR	101500253	U-box domain-containing protein 7
SNP_647_A_3150707	NC_021160.1	Ca_Kabuli_Chr01	3150707	AA	TT	TT	DRR	101500253	U-box domain-containing protein 7
SNP_648_A_3153199	NC_021160.1	Ca_Kabuli_Chr01	3153199	GG	CC	CC	INTRON	101500253	U-box domain-containing protein 7
SNP_649_A_3153321	NC_021160.1	Ca_Kabuli_Chr01	3153321	GG	TT	TT	INTRON	101500253	U-box domain-containing protein 7
SNP_650_A_3153944	NC_021160.1	Ca_Kabuli_Chr01	3153944	AA	GG	GG	INTRON	101500253	U-box domain-containing protein 7
SNP_651_A_3153957	NC_021160.1	Ca_Kabuli_Chr01	3153957	TT	AA	AA	INTRON	101500253	U-box domain-containing protein 7
SNP_653_A_3206317	NC_021160.1	Ca_Kabuli_Chr01	3206317	TT	CC	CC	INTERGENIC		
SNP_654_A_3289718	NC_021160.1	Ca_Kabuli_Chr01	3289718	TT	GG	GG	INTERGENIC		
SNP_655_A_3289719	NC_021160.1	Ca_Kabuli_Chr01	3289719	AA	TT	TT	INTERGENIC		
SNP_656_A_3314071	NC_021160.1	Ca_Kabuli_Chr01	3314071	GG	TT	TT	DRR	101506657	CBL-interacting serine/threonine-protein kinase 12-like
SNP_657_A_3319400	NC_021160.1	Ca_Kabuli_Chr01	3319400	AA	TT	TT	INTERGENIC		
SNP_658_A_3355199	NC_021160.1	Ca_Kabuli_Chr01	3355199	TT	AA	AA	INTERGENIC		
SNP_659_A_3355203	NC_021160.1	Ca_Kabuli_Chr01	3355203	AA	TT	TT	INTERGENIC		
SNP_660_A_3355472	NC_021160.1	Ca_Kabuli_Chr01	3355472	CC	GG	GG	DRR	101508483	shaggy-related protein kinase eta
SNP_661_A_3367513	NC_021160.1	Ca_Kabuli_Chr01	3367513	GG	CC	CC	URR	101508790	probable LRR receptor-like serine/threonine-protein kinase At5g45780
SNP_663_A_3518649	NC_021160.1	Ca_Kabuli_Chr01	3518649	GG	AA	AA	URR	101515364	transcription repressor OFP5-like
SNP_664_A_3518891	NC_021160.1	Ca_Kabuli_Chr01	3518891	GG	CC	CC	URR	101515698	uncharacterized LOC101515698

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_665_A_3529016	NC_021160.1	Ca_Kabuli_Chr01	3529016	CC	GG	GG	INTERGENIC		
SNP_666_A_3577102	NC_021160.1	Ca_Kabuli_Chr01	3577102	CC	TT	TT	URR	101490316	nodulin-26-like
SNP_667_A_3629038	NC_021160.1	Ca_Kabuli_Chr01	3629038	AA	GG	GG	INTERGENIC		
SNP_669_A_3665792	NC_021160.1	Ca_Kabuli_Chr01	3665792	TT	GG	GG	INTRON	101495032	GDSL esterase/lipase At1g29660-like
SNP_670_A_3754974	NC_021160.1	Ca_Kabuli_Chr01	3754974	CC	AA	AA	URR	101497980	PITH domain-containing protein 1
SNP_671_A_3754986	NC_021160.1	Ca_Kabuli_Chr01	3754986	CC	TT	TT	URR	101497980	PITH domain-containing protein 1
SNP_672_A_3754989	NC_021160.1	Ca_Kabuli_Chr01	3754989	CC	AA	AA	URR	101497980	PITH domain-containing protein 1
SNP_673_A_3758069	NC_021160.1	Ca_Kabuli_Chr01	3758069	CC	TT	TT	INTERGENIC		
SNP_674_A_3758370	NC_021160.1	Ca_Kabuli_Chr01	3758370	GG	TT	TT	INTERGENIC		
SNP_675_A_3758532	NC_021160.1	Ca_Kabuli_Chr01	3758532	GG	AA	AA	INTERGENIC		
SNP_676_A_3782047	NC_021160.1	Ca_Kabuli_Chr01	3782047	GG	TT	TT	INTERGENIC		
SNP_677_A_3782556	NC_021160.1	Ca_Kabuli_Chr01	3782556	GG	TT	TT	INTERGENIC		
SNP_678_A_3783144	NC_021160.1	Ca_Kabuli_Chr01	3783144	AA	CC	CC	INTERGENIC		
SNP_679_A_3783527	NC_021160.1	Ca_Kabuli_Chr01	3783527	TT	AA	AA	INTERGENIC		
SNP_681_A_3783646	NC_021160.1	Ca_Kabuli_Chr01	3783646	GG	TT	TT	INTERGENIC		
SNP_683_A_3879160	NC_021160.1	Ca_Kabuli_Chr01	3879160	CC	TT	TT	INTRON	101501722	uncharacterized LOC101501722
SNP_684_A_3966049	NC_021160.1	Ca_Kabuli_Chr01	3966049	CC	TT	TT	INTERGENIC		
SNP_685_A_3990811	NC_021160.1	Ca_Kabuli_Chr01	3990811	TT	AA	AA	INTERGENIC		
SNP_688_A_4119576	NC_021160.1	Ca_Kabuli_Chr01	4119576	TT	CC	CC	INTERGENIC		
SNP_691_A_4159378	NC_021160.1	Ca_Kabuli_Chr01	4159378	TT	GG	GG	INTERGENIC		
SNP_692_A_4160339	NC_021160.1	Ca_Kabuli_Chr01	4160339	GG	AA	AA	INTERGENIC		
SNP_694_A_4218349	NC_021160.1	Ca_Kabuli_Chr01	4218349	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_695_A_4229220	NC_021160.1	Ca_Kabuli_Chr01	4229220	CC	TT	TT	INTRON	101488455	uncharacterized LOC101488455
SNP_696_A_4229231	NC_021160.1	Ca_Kabuli_Chr01	4229231	CC	TT	TT	INTRON	101488455	uncharacterized LOC101488455
SNP_698_A_4234957	NC_021160.1	Ca_Kabuli_Chr01	4234957	TT	CC	CC	URR	101488455	uncharacterized LOC101488455
SNP_699_A_4241084	NC_021160.1	Ca_Kabuli_Chr01	4241084	GG	AA	AA	INTERGENIC		
SNP_700_A_4241099	NC_021160.1	Ca_Kabuli_Chr01	4241099	AA	GG	GG	INTERGENIC		
SNP_701_A_4241155	NC_021160.1	Ca_Kabuli_Chr01	4241155	GG	TT	TT	INTERGENIC		
SNP_702_A_4241204	NC_021160.1	Ca_Kabuli_Chr01	4241204	TT	CC	CC	INTERGENIC		
SNP_703_A_4246715	NC_021160.1	Ca_Kabuli_Chr01	4246715	TT	AA	AA	URR	101493347	probable F-box protein At4g22030
SNP_704_A_4252781	NC_021160.1	Ca_Kabuli_Chr01	4252781	TT	AA	AA	URR	101488792	la-related protein 6A
SNP_705_A_4287878	NC_021160.1	Ca_Kabuli_Chr01	4287878	CC	GG	GG	INTERGENIC		
SNP_706_A_4288598	NC_021160.1	Ca_Kabuli_Chr01	4288598	CC	AA	AA	DRR	101490317	60S ribosomal protein L18a
SNP_707_A_4291926	NC_021160.1	Ca_Kabuli_Chr01	4291926	TT	CC	CC	URR	101490317	60S ribosomal protein L18a
SNP_708_A_4314640	NC_021160.1	Ca_Kabuli_Chr01	4314640	TT	CC	CC	INTERGENIC		
SNP_709_A_4435104	NC_021160.1	Ca_Kabuli_Chr01	4435104	GG	AA	AA	INTERGENIC		
SNP_710_A_4435290	NC_021160.1	Ca_Kabuli_Chr01	4435290	TT	CC	CC	INTERGENIC		
SNP_711_A_4435322	NC_021160.1	Ca_Kabuli_Chr01	4435322	AA	GG	GG	INTERGENIC		
SNP_713_A_4515753	NC_021160.1	Ca_Kabuli_Chr01	4515753	GG	AA	AA	URR	101499294	tubby-like F-box protein 3
SNP_715_A_4719711	NC_021160.1	Ca_Kabuli_Chr01	4719711	GG	AA	AA	DRR	101505157	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_716_A_4721544	NC_021160.1	Ca_Kabuli_Chr01	4721544	AA	TT	TT	URR	101504842	probable prolyl 4-hydroxylase 4
SNP_717_A_4722850	NC_021160.1	Ca_Kabuli_Chr01	4722850	AA	GG	GG	INTERGENIC		
SNP_718_A_4722855	NC_021160.1	Ca_Kabuli_Chr01	4722855	TT	CC	CC	INTERGENIC		
SNP_719_A_4738116	NC_021160.1	Ca_Kabuli_Chr01	4738116	TT	AA	AA	INTRON	101497222	F-box/kelch-repeat protein At3g23880-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_721_A_4743825	NC_021160.1	Ca_Kabuli_Chr01	4743825	AA	GG	GG	INTERGENIC		
SNP_722_A_4772934	NC_021160.1	Ca_Kabuli_Chr01	4772934	TT	CC	CC	INTERGENIC		
SNP_723_A_4900727	NC_021160.1	Ca_Kabuli_Chr01	4900727	CC	TT	TT	DRR	101497883	putative disease resistance RPP13-like protein 1
SNP_724_A_4906252	NC_021160.1	Ca_Kabuli_Chr01	4906252	GG	CC	CC	INTRON	101498201	Unknown function
SNP_725_A_4929240	NC_021160.1	Ca_Kabuli_Chr01	4929240	CC	TT	TT	URR	101511058	glutamine synthetase leaf isozyme, chloroplastic
SNP_726_A_4929280	NC_021160.1	Ca_Kabuli_Chr01	4929280	CC	TT	TT	URR	101511058	glutamine synthetase leaf isozyme, chloroplastic
SNP_728_A_4933963	NC_021160.1	Ca_Kabuli_Chr01	4933963	CC	GG	GG	INTERGENIC		
SNP_729_A_4933982	NC_021160.1	Ca_Kabuli_Chr01	4933982	CC	GG	GG	INTERGENIC		
SNP_730_A_4933983	NC_021160.1	Ca_Kabuli_Chr01	4933983	CC	GG	GG	INTERGENIC		
SNP_731_A_4934187	NC_021160.1	Ca_Kabuli_Chr01	4934187	AA	GG	GG	INTERGENIC		
SNP_732_A_4934210	NC_021160.1	Ca_Kabuli_Chr01	4934210	TT	GG	GG	INTERGENIC		
SNP_733_A_4935000	NC_021160.1	Ca_Kabuli_Chr01	4935000	CC	TT	TT	INTERGENIC		
SNP_734_A_4935017	NC_021160.1	Ca_Kabuli_Chr01	4935017	GG	TT	TT	INTERGENIC		
SNP_735_A_5014284	NC_021160.1	Ca_Kabuli_Chr01	5014284	TT	CC	CC	INTERGENIC		
SNP_736_A_5026204	NC_021160.1	Ca_Kabuli_Chr01	5026204	AA	GG	GG	INTERGENIC		
SNP_737_A_5031346	NC_021160.1	Ca_Kabuli_Chr01	5031346	TT	AA	AA	INTERGENIC		
SNP_738_A_5031347	NC_021160.1	Ca_Kabuli_Chr01	5031347	CC	AA	AA	INTERGENIC		
SNP_739_A_5031348	NC_021160.1	Ca_Kabuli_Chr01	5031348	CC	AA	AA	INTERGENIC		
SNP_740_A_5040537	NC_021160.1	Ca_Kabuli_Chr01	5040537	TT	CC	CC	INTRON	101498871	uncharacterized protein At5g19025-like
SNP_741_A_5040725	NC_021160.1	Ca_Kabuli_Chr01	5040725	GG	AA	AA	INTRON	101498871	uncharacterized protein At5g19025-like
SNP_742_A_5040908	NC_021160.1	Ca_Kabuli_Chr01	5040908	CC	TT	TT	INTRON	101498871	uncharacterized protein At5g19025-like
SNP_743_A_5040942	NC_021160.1	Ca_Kabuli_Chr01	5040942	CC	TT	TT	INTRON	101498871	uncharacterized protein At5g19025-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_745_A_5183735	NC_021160.1	Ca_Kabuli_Chr01	5183735	CC	TT	TT	INTRON	101499193	Unknown function
SNP_746_A_5197154	NC_021160.1	Ca_Kabuli_Chr01	5197154	CC	GG	GG	URR	101499193	Unknown function
SNP_747_A_5229265	NC_021160.1	Ca_Kabuli_Chr01	5229265	AA	CC	CC	URR	101495910	basic 7S globulin-like
SNP_748_A_5271867	NC_021160.1	Ca_Kabuli_Chr01	5271867	CC	AA	AA	INTERGENIC		
SNP_749_A_5273285	NC_021160.1	Ca_Kabuli_Chr01	5273285	TT	AA	AA	INTERGENIC		
SNP_750_A_5312691	NC_021160.1	Ca_Kabuli_Chr01	5312691	GG	AA	AA	INTERGENIC		
SNP_751_A_5324741	NC_021160.1	Ca_Kabuli_Chr01	5324741	TT	CC	CC	DRR	101499096	transmembrane protein 64-like
SNP_752_A_5342310	NC_021160.1	Ca_Kabuli_Chr01	5342310	AA	GG	GG	DRR	101499412	adenylate isopentenyltransferase 5, chloroplastic-like
SNP_753_A_5345214	NC_021160.1	Ca_Kabuli_Chr01	5345214	AA	GG	GG	URR	101499412	adenylate isopentenyltransferase 5, chloroplastic-like
SNP_754_A_5345310	NC_021160.1	Ca_Kabuli_Chr01	5345310	AA	GG	GG	URR	101499412	adenylate isopentenyltransferase 5, chloroplastic-like
SNP_755_A_5347334	NC_021160.1	Ca_Kabuli_Chr01	5347334	TT	CC	CC	INTERGENIC		
SNP_756_A_5348871	NC_021160.1	Ca_Kabuli_Chr01	5348871	GG	AA	AA	INTERGENIC		
SNP_757_A_5348883	NC_021160.1	Ca_Kabuli_Chr01	5348883	AA	GG	GG	INTERGENIC		
SNP_758_A_5349091	NC_021160.1	Ca_Kabuli_Chr01	5349091	GG	TT	TT	INTERGENIC		
SNP_759_A_5349107	NC_021160.1	Ca_Kabuli_Chr01	5349107	CC	AA	AA	INTERGENIC		
SNP_760_A_5351063	NC_021160.1	Ca_Kabuli_Chr01	5351063	GG	AA	AA	INTERGENIC		
SNP_761_A_5351302	NC_021160.1	Ca_Kabuli_Chr01	5351302	AA	TT	TT	INTERGENIC		
SNP_762_A_5357420	NC_021160.1	Ca_Kabuli_Chr01	5357420	TT	GG	GG	INTERGENIC		
SNP_763_A_5358092	NC_021160.1	Ca_Kabuli_Chr01	5358092	TT	GG	GG	INTERGENIC		
SNP_764_A_5358383	NC_021160.1	Ca_Kabuli_Chr01	5358383	CC	AA	AA	INTERGENIC		
SNP_765_A_5358401	NC_021160.1	Ca_Kabuli_Chr01	5358401	GG	TT	TT	INTERGENIC		
SNP_766_A_5372383	NC_021160.1	Ca_Kabuli_Chr01	5372383	CC	TT	TT	URR	101499717	DUF21 domain-containing protein At4g14240-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_767_A_5375278	NC_021160.1	Ca_Kabuli_Chr01	5375278	CC	GG	GG	URR	101500029	Unknown function
SNP_769_A_5376237	NC_021160.1	Ca_Kabuli_Chr01	5376237	CC	TT	TT	INTERGENIC		
SNP_770_A_5376248	NC_021160.1	Ca_Kabuli_Chr01	5376248	AA	CC	CC	INTERGENIC		
SNP_771_A_5377199	NC_021160.1	Ca_Kabuli_Chr01	5377199	TT	GG	GG	DRR	101500367	probable serine incorporator
SNP_772_A_5377202	NC_021160.1	Ca_Kabuli_Chr01	5377202	AA	GG	GG	DRR	101500367	probable serine incorporator
SNP_773_A_5382883	NC_021160.1	Ca_Kabuli_Chr01	5382883	GG	TT	TT	INTERGENIC		
SNP_774_A_5398095	NC_021160.1	Ca_Kabuli_Chr01	5398095	AA	TT	TT	INTERGENIC		
SNP_775_A_5398271	NC_021160.1	Ca_Kabuli_Chr01	5398271	CC	TT	TT	INTERGENIC		
SNP_776_A_5398291	NC_021160.1	Ca_Kabuli_Chr01	5398291	CC	TT	TT	INTERGENIC		
SNP_777_A_5398297	NC_021160.1	Ca_Kabuli_Chr01	5398297	TT	CC	CC	INTERGENIC		
SNP_778_A_5398304	NC_021160.1	Ca_Kabuli_Chr01	5398304	TT	CC	CC	INTERGENIC		
SNP_779_A_5403473	NC_021160.1	Ca_Kabuli_Chr01	5403473	TT	CC	CC	INTERGENIC		
SNP_780_A_5403781	NC_021160.1	Ca_Kabuli_Chr01	5403781	AA	TT	TT	INTERGENIC		
SNP_782_A_5403957	NC_021160.1	Ca_Kabuli_Chr01	5403957	TT	AA	AA	INTERGENIC		
SNP_783_A_5413337	NC_021160.1	Ca_Kabuli_Chr01	5413337	AA	GG	GG	INTERGENIC		
SNP_784_A_5413396	NC_021160.1	Ca_Kabuli_Chr01	5413396	CC	TT	TT	INTERGENIC		
SNP_785_A_5420673	NC_021160.1	Ca_Kabuli_Chr01	5420673	AA	CC	CC	INTERGENIC		
SNP_786_A_5421652	NC_021160.1	Ca_Kabuli_Chr01	5421652	AA	GG	GG	INTERGENIC		
SNP_789_A_5429079	NC_021160.1	Ca_Kabuli_Chr01	5429079	GG	AA	AA	INTERGENIC		
SNP_790_A_5429637	NC_021160.1	Ca_Kabuli_Chr01	5429637	GG	AA	AA	DRR	101500992	uncharacterized LOC101500992
SNP_791_A_5431653	NC_021160.1	Ca_Kabuli_Chr01	5431653	CC	GG	GG	INTERGENIC		
SNP_792_A_5431662	NC_021160.1	Ca_Kabuli_Chr01	5431662	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_793_A_5432995	NC_021160.1	Ca_Kabuli_Chr01	5432995	AA	GG	GG	URR	101500992	uncharacterized LOC101500992
SNP_794_A_5433037	NC_021160.1	Ca_Kabuli_Chr01	5433037	CC	TT	TT	URR	101500992	uncharacterized LOC101500992
SNP_795_A_5433066	NC_021160.1	Ca_Kabuli_Chr01	5433066	AA	GG	GG	URR	101500992	uncharacterized LOC101500992
SNP_796_A_5433254	NC_021160.1	Ca_Kabuli_Chr01	5433254	TT	CC	CC	URR	101500992	uncharacterized LOC101500992
SNP_797_A_5433307	NC_021160.1	Ca_Kabuli_Chr01	5433307	GG	AA	AA	URR	101500992	uncharacterized LOC101500992
SNP_798_A_5443935	NC_021160.1	Ca_Kabuli_Chr01	5443935	CC	TT	TT	NON_SYNONYMOUS_CODING	101501306	ATP-dependent (S)-NAD(P)H-hydrate dehydratase-like
SNP_799_A_5457729	NC_021160.1	Ca_Kabuli_Chr01	5457729	AA	GG	GG	INTERGENIC		
SNP_800_A_5457860	NC_021160.1	Ca_Kabuli_Chr01	5457860	GG	AA	AA	INTERGENIC		
SNP_801_A_5457923	NC_021160.1	Ca_Kabuli_Chr01	5457923	CC	TT	TT	INTERGENIC		
SNP_802_A_5457941	NC_021160.1	Ca_Kabuli_Chr01	5457941	CC	AA	AA	INTERGENIC		
SNP_803_A_5460841	NC_021160.1	Ca_Kabuli_Chr01	5460841	TT	AA	AA	INTERGENIC		
SNP_804_A_5463941	NC_021160.1	Ca_Kabuli_Chr01	5463941	GG	AA	AA	INTERGENIC		
SNP_805_A_5464054	NC_021160.1	Ca_Kabuli_Chr01	5464054	TT	CC	CC	INTERGENIC		
SNP_806_A_5464062	NC_021160.1	Ca_Kabuli_Chr01	5464062	CC	TT	TT	INTERGENIC		
SNP_807_A_5464161	NC_021160.1	Ca_Kabuli_Chr01	5464161	TT	GG	GG	INTERGENIC		
SNP_808_A_5464196	NC_021160.1	Ca_Kabuli_Chr01	5464196	TT	CC	CC	INTERGENIC		
SNP_809_A_5464228	NC_021160.1	Ca_Kabuli_Chr01	5464228	CC	TT	TT	INTERGENIC		
SNP_810_A_5464264	NC_021160.1	Ca_Kabuli_Chr01	5464264	TT	CC	CC	INTERGENIC		
SNP_811_A_5464267	NC_021160.1	Ca_Kabuli_Chr01	5464267	AA	GG	GG	INTERGENIC		
SNP_812_A_5464274	NC_021160.1	Ca_Kabuli_Chr01	5464274	CC	TT	TT	INTERGENIC		
SNP_813_A_5464342	NC_021160.1	Ca_Kabuli_Chr01	5464342	AA	GG	GG	INTERGENIC		
SNP_814_A_5464360	NC_021160.1	Ca_Kabuli_Chr01	5464360	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_815_A_5468591	NC_021160.1	Ca_Kabuli_Chr01	5468591	CC	TT	TT	DRR	101501937	peptidyl-prolyl cis-trans isomerase CYP57
SNP_816_A_5478222	NC_021160.1	Ca_Kabuli_Chr01	5478222	TT	GG	GG	INTRON	101501937	peptidyl-prolyl cis-trans isomerase CYP57
SNP_817_A_5482284	NC_021160.1	Ca_Kabuli_Chr01	5482284	GG	AA	AA	URR	101501724	probable inactive receptor kinase At2g26730
SNP_818_A_5483445	NC_021160.1	Ca_Kabuli_Chr01	5483445	CC	AA	AA	URR	101501724	probable inactive receptor kinase At2g26730
SNP_820_A_5499062	NC_021160.1	Ca_Kabuli_Chr01	5499062	GG	AA	AA	URR	101502783	ATP synthase gamma chain, chloroplastic
SNP_821_A_5499105	NC_021160.1	Ca_Kabuli_Chr01	5499105	GG	AA	AA	URR	101502783	ATP synthase gamma chain, chloroplastic
SNP_823_A_5513214	NC_021160.1	Ca_Kabuli_Chr01	5513214	GG	AA	AA	INTRON	101503104	starch synthase 3, chloroplastic/amyloplastic
SNP_824_A_5514098	NC_021160.1	Ca_Kabuli_Chr01	5514098	AA	GG	GG	INTRON	101503104	starch synthase 3, chloroplastic/amyloplastic
SNP_825_A_5514856	NC_021160.1	Ca_Kabuli_Chr01	5514856	CC	GG	GG	INTERGENIC		
SNP_826_A_5528774	NC_021160.1	Ca_Kabuli_Chr01	5528774	GG	CC	CC	INTERGENIC		
SNP_827_A_5544156	NC_021160.1	Ca_Kabuli_Chr01	5544156	GG	AA	AA	INTERGENIC		
SNP_828_A_5547439	NC_021160.1	Ca_Kabuli_Chr01	5547439	TT	CC	CC	INTERGENIC		
SNP_830_A_5613941	NC_021160.1	Ca_Kabuli_Chr01	5613941	GG	CC	CC	DRR	101505807	glycine-rich cell wall structural protein 1.0-like
SNP_831_A_5784428	NC_021160.1	Ca_Kabuli_Chr01	5784428	CC	AA	AA	INTERGENIC		
SNP_832_A_5803240	NC_021160.1	Ca_Kabuli_Chr01	5803240	CC	TT	TT	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_833_A_5803260	NC_021160.1	Ca_Kabuli_Chr01	5803260	GG	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_834_A_5803429	NC_021160.1	Ca_Kabuli_Chr01	5803429	TT	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_835_A_5803435	NC_021160.1	Ca_Kabuli_Chr01	5803435	AA	CC	CC	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_837_A_5803850	NC_021160.1	Ca_Kabuli_Chr01	5803850	GG	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_838_A_5803933	NC_021160.1	Ca_Kabuli_Chr01	5803933	GG	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_839_A_5804028	NC_021160.1	Ca_Kabuli_Chr01	5804028	GG	AA	AA	NON_SYNONYMOUS_CODING	101513200	katanin p60 ATPase-containing subunit A1
SNP_841_A_5804227	NC_021160.1	Ca_Kabuli_Chr01	5804227	GG	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_842_A_5804381	NC_021160.1	Ca_Kabuli_Chr01	5804381	TT	AA	AA	INTRON	101513200	katanin p60 ATPase-containing subunit A1
SNP_843_A_5859645	NC_021160.1	Ca_Kabuli_Chr01	5859645	CC	TT	TT	INTERGENIC		
SNP_844_A_5897722	NC_021160.1	Ca_Kabuli_Chr01	5897722	TT	CC	CC	INTERGENIC		
SNP_845_A_5897738	NC_021160.1	Ca_Kabuli_Chr01	5897738	GG	TT	TT	INTERGENIC		
SNP_846_A_5897855	NC_021160.1	Ca_Kabuli_Chr01	5897855	AA	GG	GG	INTERGENIC		
SNP_848_A_5961350	NC_021160.1	Ca_Kabuli_Chr01	5961350	CC	GG	GG	URR	101489543	uncharacterized LOC101489543
SNP_849_A_5986521	NC_021160.1	Ca_Kabuli_Chr01	5986521	AA	TT	TT	INTERGENIC		
SNP_850_A_5986857	NC_021160.1	Ca_Kabuli_Chr01	5986857	CC	TT	TT	INTERGENIC		
SNP_851_A_5988183	NC_021160.1	Ca_Kabuli_Chr01	5988183	TT	AA	AA	DRR	101505256	uncharacterized LOC101505256
SNP_852_A_6106315	NC_021160.1	Ca_Kabuli_Chr01	6106315	CC	TT	TT	INTERGENIC		
SNP_853_A_6106328	NC_021160.1	Ca_Kabuli_Chr01	6106328	TT	CC	CC	INTERGENIC		
SNP_854_A_6106338	NC_021160.1	Ca_Kabuli_Chr01	6106338	AA	TT	TT	INTERGENIC		
SNP_855_A_6106339	NC_021160.1	Ca_Kabuli_Chr01	6106339	GG	CC	CC	INTERGENIC		
SNP_856_A_6106350	NC_021160.1	Ca_Kabuli_Chr01	6106350	TT	CC	CC	INTERGENIC		
SNP_857_A_6106351	NC_021160.1	Ca_Kabuli_Chr01	6106351	AA	TT	TT	INTERGENIC		
SNP_858_A_6106563	NC_021160.1	Ca_Kabuli_Chr01	6106563	TT	GG	GG	INTERGENIC		
SNP_859_A_6106564	NC_021160.1	Ca_Kabuli_Chr01	6106564	AA	GG	GG	INTERGENIC		
SNP_860_A_6123548	NC_021160.1	Ca_Kabuli_Chr01	6123548	AA	TT	TT	NON_SYNONYMOUS_CODING	101495362	tonoplast dicarboxylate transporter
SNP_861_A_6128144	NC_021160.1	Ca_Kabuli_Chr01	6128144	CC	TT	TT	URR	101495690	60S ribosomal protein L23
SNP_862_A_6128572	NC_021160.1	Ca_Kabuli_Chr01	6128572	GG	AA	AA	URR	101495690	60S ribosomal protein L23
SNP_863_A_6137073	NC_021160.1	Ca_Kabuli_Chr01	6137073	TT	AA	AA	INTERGENIC		
SNP_864_A_6137078	NC_021160.1	Ca_Kabuli_Chr01	6137078	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_866_A_6138175	NC_021160.1	Ca_Kabuli_Chr01	6138175	TT	CC	CC	INTERGENIC		
SNP_867_A_6138210	NC_021160.1	Ca_Kabuli_Chr01	6138210	CC	TT	TT	INTERGENIC		
SNP_868_A_6138510	NC_021160.1	Ca_Kabuli_Chr01	6138510	GG	TT	TT	INTERGENIC		
SNP_869_A_6138577	NC_021160.1	Ca_Kabuli_Chr01	6138577	TT	CC	CC	INTERGENIC		
SNP_870_A_6148799	NC_021160.1	Ca_Kabuli_Chr01	6148799	TT	CC	CC	URR	101496357	putative MO25-like protein At5g47540
SNP_871_A_6148850	NC_021160.1	Ca_Kabuli_Chr01	6148850	AA	GG	GG	URR	101496357	putative MO25-like protein At5g47540
SNP_872_A_6149652	NC_021160.1	Ca_Kabuli_Chr01	6149652	CC	AA	AA	INTERGENIC		
SNP_873_A_6151771	NC_021160.1	Ca_Kabuli_Chr01	6151771	AA	TT	TT	INTERGENIC		
SNP_874_A_6156008	NC_021160.1	Ca_Kabuli_Chr01	6156008	AA	GG	GG	URR	101496687	inositol-phosphate phosphatase-like
SNP_875_A_6156297	NC_021160.1	Ca_Kabuli_Chr01	6156297	TT	CC	CC	URR	101496687	inositol-phosphate phosphatase-like
SNP_876_A_6157514	NC_021160.1	Ca_Kabuli_Chr01	6157514	AA	GG	GG	URR	101496687	inositol-phosphate phosphatase-like
SNP_877_A_6174191	NC_021160.1	Ca_Kabuli_Chr01	6174191	GG	AA	AA	INTERGENIC		
SNP_878_A_6174419	NC_021160.1	Ca_Kabuli_Chr01	6174419	TT	CC	CC	INTERGENIC		
SNP_879_A_6174575	NC_021160.1	Ca_Kabuli_Chr01	6174575	GG	CC	CC	INTERGENIC		
SNP_881_A_6176916	NC_021160.1	Ca_Kabuli_Chr01	6176916	CC	TT	TT	INTERGENIC		
SNP_883_A_6177982	NC_021160.1	Ca_Kabuli_Chr01	6177982	CC	TT	TT	INTERGENIC		
SNP_884_A_6178237	NC_021160.1	Ca_Kabuli_Chr01	6178237	TT	AA	AA	INTERGENIC		
SNP_885_A_6178270	NC_021160.1	Ca_Kabuli_Chr01	6178270	GG	AA	AA	INTERGENIC		
SNP_886_A_6193249	NC_021160.1	Ca_Kabuli_Chr01	6193249	GG	AA	AA	INTERGENIC		
SNP_887_A_6202343	NC_021160.1	Ca_Kabuli_Chr01	6202343	AA	CC	CC	INTERGENIC		
SNP_889_A_6202766	NC_021160.1	Ca_Kabuli_Chr01	6202766	TT	AA	AA	INTERGENIC		
SNP_891_A_6204360	NC_021160.1	Ca_Kabuli_Chr01	6204360	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_893_A_6205079	NC_021160.1	Ca_Kabuli_Chr01	6205079	AA	GG	GG	DRR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_895_A_6205421	NC_021160.1	Ca_Kabuli_Chr01	6205421	AA	GG	GG	DRR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_896_A_6205630	NC_021160.1	Ca_Kabuli_Chr01	6205630	GG	AA	AA	DRR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_897_A_6206224	NC_021160.1	Ca_Kabuli_Chr01	6206224	AA	GG	GG	SYNONYMOUS_CODING	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_898_A_6206387	NC_021160.1	Ca_Kabuli_Chr01	6206387	GG	AA	AA	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_899_A_6206426	NC_021160.1	Ca_Kabuli_Chr01	6206426	CC	TT	TT	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_900_A_6206449	NC_021160.1	Ca_Kabuli_Chr01	6206449	CC	TT	TT	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_901_A_6206458	NC_021160.1	Ca_Kabuli_Chr01	6206458	GG	AA	AA	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_902_A_6206465	NC_021160.1	Ca_Kabuli_Chr01	6206465	CC	TT	TT	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_903_A_6206495	NC_021160.1	Ca_Kabuli_Chr01	6206495	TT	CC	CC	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_904_A_6206543	NC_021160.1	Ca_Kabuli_Chr01	6206543	AA	CC	CC	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_906_A_6206629	NC_021160.1	Ca_Kabuli_Chr01	6206629	CC	AA	AA	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_907_A_6206630	NC_021160.1	Ca_Kabuli_Chr01	6206630	CC	TT	TT	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_908_A_6206660	NC_021160.1	Ca_Kabuli_Chr01	6206660	AA	CC	CC	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_909_A_6206661	NC_021160.1	Ca_Kabuli_Chr01	6206661	AA	TT	TT	URR	101499612	cytochrome b561 and DOMON domain-containing protein At5g47530-like
SNP_911_A_6219089	NC_021160.1	Ca_Kabuli_Chr01	6219089	CC	TT	TT	INTERGENIC		
SNP_913_A_6231831	NC_021160.1	Ca_Kabuli_Chr01	6231831	AA	TT	TT	INTRON	101510835	inositol transporter 4
SNP_914_A_6260388	NC_021160.1	Ca_Kabuli_Chr01	6260388	AA	TT	TT	URR	101499919	thymidine kinase-like
SNP_915_A_6263170	NC_021160.1	Ca_Kabuli_Chr01	6263170	CC	AA	AA	INTERGENIC		
SNP_916_A_6265693	NC_021160.1	Ca_Kabuli_Chr01	6265693	GG	CC	CC	URR	101512242	serine/threonine-protein kinase pakA
SNP_918_A_6267212	NC_021160.1	Ca_Kabuli_Chr01	6267212	AA	GG	GG	INTERGENIC		
SNP_919_A_6267217	NC_021160.1	Ca_Kabuli_Chr01	6267217	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_920_A_6270340	NC_021160.1	Ca_Kabuli_Chr01	6270340	AA	CC	CC	URR	101512755	scarecrow-like protein 21
SNP_921_A_6270956	NC_021160.1	Ca_Kabuli_Chr01	6270956	GG	AA	AA	URR	101512755	scarecrow-like protein 21
SNP_922_A_6284185	NC_021160.1	Ca_Kabuli_Chr01	6284185	AA	GG	GG	DRR	101500259	uncharacterized LOC101500259
SNP_923_A_6288779	NC_021160.1	Ca_Kabuli_Chr01	6288779	GG	AA	AA	URR	101500574	uncharacterized LOC101500574
SNP_924_A_6291418	NC_021160.1	Ca_Kabuli_Chr01	6291418	TT	AA	AA	INTERGENIC		
SNP_925_A_6291480	NC_021160.1	Ca_Kabuli_Chr01	6291480	AA	GG	GG	INTERGENIC		
SNP_926_A_6291650	NC_021160.1	Ca_Kabuli_Chr01	6291650	GG	CC	CC	INTERGENIC		
SNP_927_A_6291928	NC_021160.1	Ca_Kabuli_Chr01	6291928	CC	AA	AA	INTERGENIC		
SNP_929_A_6298006	NC_021160.1	Ca_Kabuli_Chr01	6298006	TT	CC	CC	INTERGENIC		
SNP_930_A_6298028	NC_021160.1	Ca_Kabuli_Chr01	6298028	GG	TT	TT	INTERGENIC		
SNP_931_A_6298160	NC_021160.1	Ca_Kabuli_Chr01	6298160	AA	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_932_A_6298191	NC_021160.1	Ca_Kabuli_Chr01	6298191	AA	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_933_A_6299193	NC_021160.1	Ca_Kabuli_Chr01	6299193	GG	AA	AA	URR	101513412	CASP-like protein 2B1
SNP_934_A_6299231	NC_021160.1	Ca_Kabuli_Chr01	6299231	AA	GG	GG	URR	101513412	CASP-like protein 2B1
SNP_935_A_6299234	NC_021160.1	Ca_Kabuli_Chr01	6299234	CC	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_936_A_6299236	NC_021160.1	Ca_Kabuli_Chr01	6299236	CC	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_937_A_6299237	NC_021160.1	Ca_Kabuli_Chr01	6299237	CC	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_938_A_6299258	NC_021160.1	Ca_Kabuli_Chr01	6299258	TT	CC	CC	URR	101513412	CASP-like protein 2B1
SNP_939_A_6299279	NC_021160.1	Ca_Kabuli_Chr01	6299279	AA	GG	GG	URR	101513412	CASP-like protein 2B1
SNP_940_A_6299314	NC_021160.1	Ca_Kabuli_Chr01	6299314	AA	GG	GG	URR	101513412	CASP-like protein 2B1
SNP_941_A_6299322	NC_021160.1	Ca_Kabuli_Chr01	6299322	CC	TT	TT	URR	101513412	CASP-like protein 2B1
SNP_942_A_6303459	NC_021160.1	Ca_Kabuli_Chr01	6303459	TT	CC	CC	DRR	101514061	uncharacterized LOC101514061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_943_A_6303696	NC_021160.1	Ca_Kabuli_Chr01	6303696	TT	AA	AA	DRR	101514061	uncharacterized LOC101514061
SNP_944_A_6305407	NC_021160.1	Ca_Kabuli_Chr01	6305407	CC	GG	GG	INTERGENIC		
SNP_945_A_6312790	NC_021160.1	Ca_Kabuli_Chr01	6312790	CC	TT	TT	INTERGENIC		
SNP_946_A_6313974	NC_021160.1	Ca_Kabuli_Chr01	6313974	AA	TT	TT	DRR	101514613	transcriptional adapter ADA2b
SNP_948_A_6328244	NC_021160.1	Ca_Kabuli_Chr01	6328244	AA	GG	GG	DRR	101515146	uncharacterized LOC101515146
SNP_949_A_6328801	NC_021160.1	Ca_Kabuli_Chr01	6328801	AA	TT	TT	DRR	101515146	uncharacterized LOC101515146
SNP_950_A_6330948	NC_021160.1	Ca_Kabuli_Chr01	6330948	AA	CC	CC	INTRON	101515146	uncharacterized LOC101515146
SNP_951_A_6331188	NC_021160.1	Ca_Kabuli_Chr01	6331188	TT	CC	CC	INTRON	101515146	uncharacterized LOC101515146
SNP_952_A_6331210	NC_021160.1	Ca_Kabuli_Chr01	6331210	AA	GG	GG	INTRON	101515146	uncharacterized LOC101515146
SNP_953_A_6337502	NC_021160.1	Ca_Kabuli_Chr01	6337502	TT	AA	AA	INTERGENIC		
SNP_954_A_6337517	NC_021160.1	Ca_Kabuli_Chr01	6337517	AA	CC	CC	INTERGENIC		
SNP_955_A_6337870	NC_021160.1	Ca_Kabuli_Chr01	6337870	GG	AA	AA	INTERGENIC		
SNP_957_A_6361098	NC_021160.1	Ca_Kabuli_Chr01	6361098	CC	AA	AA	DRR	101488898	CASP-like protein 2B1
SNP_958_A_6361109	NC_021160.1	Ca_Kabuli_Chr01	6361109	AA	GG	GG	DRR	101488898	CASP-like protein 2B1
SNP_959_A_6363821	NC_021160.1	Ca_Kabuli_Chr01	6363821	CC	TT	TT	INTRON	101488898	CASP-like protein 2B1
SNP_960_A_6364945	NC_021160.1	Ca_Kabuli_Chr01	6364945	AA	GG	GG	INTRON	101488898	CASP-like protein 2B1
SNP_961_A_6367941	NC_021160.1	Ca_Kabuli_Chr01	6367941	TT	CC	CC	INTRON	101488898	CASP-like protein 2B1
SNP_962_A_6367961	NC_021160.1	Ca_Kabuli_Chr01	6367961	GG	AA	AA	INTRON	101488898	CASP-like protein 2B1
SNP_963_A_6368257	NC_021160.1	Ca_Kabuli_Chr01	6368257	TT	CC	CC	INTRON	101488898	CASP-like protein 2B1
SNP_964_A_6368263	NC_021160.1	Ca_Kabuli_Chr01	6368263	TT	GG	GG	INTRON	101488898	CASP-like protein 2B1
SNP_965_A_6384877	NC_021160.1	Ca_Kabuli_Chr01	6384877	CC	TT	TT	INTERGENIC		
SNP_966_A_6394311	NC_021160.1	Ca_Kabuli_Chr01	6394311	CC	TT	TT	URR	101489546	pentatricopeptide repeat-containing protein At4g16390, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_967_A_6394314	NC_021160.1	Ca_Kabuli_Chr01	6394314	AA	GG	GG	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_968_A_6394333	NC_021160.1	Ca_Kabuli_Chr01	6394333	GG	AA	AA	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_969_A_6394347	NC_021160.1	Ca_Kabuli_Chr01	6394347	TT	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_970_A_6394370	NC_021160.1	Ca_Kabuli_Chr01	6394370	CC	TT	TT	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_971_A_6394389	NC_021160.1	Ca_Kabuli_Chr01	6394389	TT	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_972_A_6394401	NC_021160.1	Ca_Kabuli_Chr01	6394401	TT	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_973_A_6394552	NC_021160.1	Ca_Kabuli_Chr01	6394552	GG	AA	AA	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_974_A_6394568	NC_021160.1	Ca_Kabuli_Chr01	6394568	AA	GG	GG	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_975_A_6394600	NC_021160.1	Ca_Kabuli_Chr01	6394600	TT	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_976_A_6394606	NC_021160.1	Ca_Kabuli_Chr01	6394606	AA	GG	GG	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_977_A_6394706	NC_021160.1	Ca_Kabuli_Chr01	6394706	TT	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_978_A_6394725	NC_021160.1	Ca_Kabuli_Chr01	6394725	AA	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_979_A_6394742	NC_021160.1	Ca_Kabuli_Chr01	6394742	AA	CC	CC	URR	101489546	pentatricopeptide repeat-containing protein chloroplastic-like At4g16390,
SNP_980_A_6399252	NC_021160.1	Ca_Kabuli_Chr01	6399252	CC	TT	TT	INTERGENIC		
SNP_981_A_6399990	NC_021160.1	Ca_Kabuli_Chr01	6399990	AA	TT	TT	INTERGENIC		
SNP_982_A_6400401	NC_021160.1	Ca_Kabuli_Chr01	6400401	CC	TT	TT	INTERGENIC		
SNP_983_A_6400609	NC_021160.1	Ca_Kabuli_Chr01	6400609	TT	CC	CC	INTERGENIC		
SNP_984_A_6400628	NC_021160.1	Ca_Kabuli_Chr01	6400628	GG	AA	AA	INTERGENIC		
SNP_985_A_6408090	NC_021160.1	Ca_Kabuli_Chr01	6408090	CC	GG	GG	URR	101489861	pollen-specific leucine-rich repeat extensin-like protein 2
SNP_986_A_6408298	NC_021160.1	Ca_Kabuli_Chr01	6408298	TT	AA	AA	URR	101489861	pollen-specific leucine-rich repeat extensin-like protein 2
SNP_987_A_6415141	NC_021160.1	Ca_Kabuli_Chr01	6415141	GG	CC	CC	INTRON	101490195	FK506-binding protein 5-like
SNP_988_A_6415194	NC_021160.1	Ca_Kabuli_Chr01	6415194	TT	CC	CC	INTRON	101490195	FK506-binding protein 5-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_989_A_6415896	NC_021160.1	Ca_Kabuli_Chr01	6415896	GG	TT	TT	INTRON	101490195	FK506-binding protein 5-like
SNP_990_A_6415913	NC_021160.1	Ca_Kabuli_Chr01	6415913	AA	TT	TT	INTRON	101490195	FK506-binding protein 5-like
SNP_991_A_6426704	NC_021160.1	Ca_Kabuli_Chr01	6426704	CC	TT	TT	DRR	101490518	nuclear transcription factor Y subunit B-3-like
SNP_992_A_6428031	NC_021160.1	Ca_Kabuli_Chr01	6428031	GG	AA	AA	URR	101490518	nuclear transcription factor Y subunit B-3-like
SNP_993_A_6430867	NC_021160.1	Ca_Kabuli_Chr01	6430867	GG	CC	CC	INTERGENIC		
SNP_994_A_6431203	NC_021160.1	Ca_Kabuli_Chr01	6431203	CC	TT	TT	INTERGENIC		
SNP_995_A_6432942	NC_021160.1	Ca_Kabuli_Chr01	6432942	AA	TT	TT	DRR	101491381	nudix hydrolase 2-like
SNP_996_A_6434732	NC_021160.1	Ca_Kabuli_Chr01	6434732	CC	TT	TT	INTRON	101491381	nudix hydrolase 2-like
SNP_997_A_6434740	NC_021160.1	Ca_Kabuli_Chr01	6434740	GG	CC	CC	INTRON	101491381	nudix hydrolase 2-like
SNP_998_A_6436317	NC_021160.1	Ca_Kabuli_Chr01	6436317	CC	GG	GG	INTRON	101491381	nudix hydrolase 2-like
SNP_999_A_6439285	NC_021160.1	Ca_Kabuli_Chr01	6439285	AA	GG	GG	DRR	101490841	trihelix transcription factor GT-2
SNP_1000_A_6439344	NC_021160.1	Ca_Kabuli_Chr01	6439344	CC	AA	AA	DRR	101490841	trihelix transcription factor GT-2
SNP_1001_A_6441997	NC_021160.1	Ca_Kabuli_Chr01	6441997	GG	TT	TT	INTRON	101490841	trihelix transcription factor GT-2
SNP_1002_A_6441998	NC_021160.1	Ca_Kabuli_Chr01	6441998	TT	GG	GG	INTRON	101490841	trihelix transcription factor GT-2
SNP_1003_A_6442051	NC_021160.1	Ca_Kabuli_Chr01	6442051	AA	TT	TT	INTRON	101490841	trihelix transcription factor GT-2
SNP_1004_A_6444385	NC_021160.1	Ca_Kabuli_Chr01	6444385	CC	AA	AA	URR	101490841	trihelix transcription factor GT-2
SNP_1006_A_6454387	NC_021160.1	Ca_Kabuli_Chr01	6454387	TT	CC	CC	URR	101491913	14 kDa proline-rich protein DC2.15-like
SNP_1007_A_6462152	NC_021160.1	Ca_Kabuli_Chr01	6462152	CC	TT	TT	INTERGENIC		
SNP_1008_A_6462225	NC_021160.1	Ca_Kabuli_Chr01	6462225	AA	GG	GG	INTERGENIC		
SNP_1009_A_6462234	NC_021160.1	Ca_Kabuli_Chr01	6462234	CC	GG	GG	INTERGENIC		
SNP_1010_A_6462474	NC_021160.1	Ca_Kabuli_Chr01	6462474	AA	GG	GG	INTERGENIC		
SNP_1011_A_6466231	NC_021160.1	Ca_Kabuli_Chr01	6466231	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1012_A_6466984	NC_021160.1	Ca_Kabuli_Chr01	6466984	AA	GG	GG	INTERGENIC		
SNP_1013_A_6466988	NC_021160.1	Ca_Kabuli_Chr01	6466988	TT	CC	CC	INTERGENIC		
SNP_1014_A_6466990	NC_021160.1	Ca_Kabuli_Chr01	6466990	AA	GG	GG	INTERGENIC		
SNP_1015_A_6466995	NC_021160.1	Ca_Kabuli_Chr01	6466995	GG	AA	AA	INTERGENIC		
SNP_1016_A_6467010	NC_021160.1	Ca_Kabuli_Chr01	6467010	GG	TT	TT	INTERGENIC		
SNP_1018_A_6476660	NC_021160.1	Ca_Kabuli_Chr01	6476660	GG	AA	AA	DRR	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1019_A_6481077	NC_021160.1	Ca_Kabuli_Chr01	6481077	CC	TT	TT	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1020_A_6481131	NC_021160.1	Ca_Kabuli_Chr01	6481131	TT	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1021_A_6482699	NC_021160.1	Ca_Kabuli_Chr01	6482699	TT	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1022_A_6484016	NC_021160.1	Ca_Kabuli_Chr01	6484016	AA	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1023_A_6484030	NC_021160.1	Ca_Kabuli_Chr01	6484030	TT	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1024_A_6484033	NC_021160.1	Ca_Kabuli_Chr01	6484033	TT	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1025_A_6484065	NC_021160.1	Ca_Kabuli_Chr01	6484065	CC	TT	TT	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1026_A_6484545	NC_021160.1	Ca_Kabuli_Chr01	6484545	GG	CC	CC	SYNONYMOUS_CODING	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1027_A_6485675	NC_021160.1	Ca_Kabuli_Chr01	6485675	GG	CC	CC	NON_SYNONYMOUS_CODING	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1028_A_6486350	NC_021160.1	Ca_Kabuli_Chr01	6486350	TT	CC	CC	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1029_A_6487673	NC_021160.1	Ca_Kabuli_Chr01	6487673	GG	AA	AA	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1030_A_6487686	NC_021160.1	Ca_Kabuli_Chr01	6487686	CC	AA	AA	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1031_A_6487687	NC_021160.1	Ca_Kabuli_Chr01	6487687	AA	GG	GG	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1032_A_6489712	NC_021160.1	Ca_Kabuli_Chr01	6489712	GG	AA	AA	INTRON	101492582	sister chromatid cohesion protein PDS5 homolog B-A
SNP_1033_A_6516991	NC_021160.1	Ca_Kabuli_Chr01	6516991	GG	TT	TT	INTERGENIC		
SNP_1034_A_6516994	NC_021160.1	Ca_Kabuli_Chr01	6516994	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1035_A_6517013	NC_021160.1	Ca_Kabuli_Chr01	6517013	GG	AA	AA	INTERGENIC		
SNP_1036_A_6517022	NC_021160.1	Ca_Kabuli_Chr01	6517022	GG	AA	AA	INTERGENIC		
SNP_1037_A_6518585	NC_021160.1	Ca_Kabuli_Chr01	6518585	CC	TT	TT	URR	101494093	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2
SNP_1038_A_6518597	NC_021160.1	Ca_Kabuli_Chr01	6518597	AA	GG	GG	URR	101494093	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2
SNP_1039_A_6518620	NC_021160.1	Ca_Kabuli_Chr01	6518620	CC	TT	TT	URR	101494093	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2
SNP_1040_A_6523375	NC_021160.1	Ca_Kabuli_Chr01	6523375	AA	GG	GG	URR	101494401	WEB family protein At1g12150-like
SNP_1041_A_6523815	NC_021160.1	Ca_Kabuli_Chr01	6523815	TT	AA	AA	URR	101494401	WEB family protein At1g12150-like
SNP_1042_A_6528285	NC_021160.1	Ca_Kabuli_Chr01	6528285	AA	GG	GG	URR	101494713	phosphatidylinositol/phosphatidylcholine transfer protein SFH2
SNP_1043_A_6532048	NC_021160.1	Ca_Kabuli_Chr01	6532048	TT	CC	CC	INTERGENIC		
SNP_1045_A_6538849	NC_021160.1	Ca_Kabuli_Chr01	6538849	TT	CC	CC	DRR	101495364	serine/threonine-protein kinase D6PK
SNP_1046_A_6538850	NC_021160.1	Ca_Kabuli_Chr01	6538850	TT	GG	GG	DRR	101495364	serine/threonine-protein kinase D6PK
SNP_1047_A_6541781	NC_021160.1	Ca_Kabuli_Chr01	6541781	GG	AA	AA	INTERGENIC		
SNP_1048_A_6546955	NC_021160.1	Ca_Kabuli_Chr01	6546955	CC	TT	TT	INTERGENIC		
SNP_1049_A_6546958	NC_021160.1	Ca_Kabuli_Chr01	6546958	CC	TT	TT	INTERGENIC		
SNP_1050_A_6546978	NC_021160.1	Ca_Kabuli_Chr01	6546978	CC	TT	TT	INTERGENIC		
SNP_1051_A_6546988	NC_021160.1	Ca_Kabuli_Chr01	6546988	AA	GG	GG	INTERGENIC		
SNP_1052_A_6559343	NC_021160.1	Ca_Kabuli_Chr01	6559343	GG	AA	AA	INTERGENIC		
SNP_1053_A_6578799	NC_021160.1	Ca_Kabuli_Chr01	6578799	TT	CC	CC	INTERGENIC		
SNP_1054_A_6646161	NC_021160.1	Ca_Kabuli_Chr01	6646161	TT	CC	CC	URR	101501843	uncharacterized LOC101501843
SNP_1055_A_6646178	NC_021160.1	Ca_Kabuli_Chr01	6646178	TT	CC	CC	URR	101501843	uncharacterized LOC101501843
SNP_1056_A_6646179	NC_021160.1	Ca_Kabuli_Chr01	6646179	GG	CC	CC	URR	101501843	uncharacterized LOC101501843
SNP_1057_A_6761564	NC_021160.1	Ca_Kabuli_Chr01	6761564	AA	CC	CC	URR	101505258	uncharacterized LOC101505258

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1058_A_6778168	NC_021160.1	Ca_Kabuli_Chr01	6778168	CC	TT	TT	URR	101503107	Unknown function
SNP_1059_A_6779880	NC_021160.1	Ca_Kabuli_Chr01	6779880	AA	GG	GG	URR	101503107	Unknown function
SNP_1060_A_6810807	NC_021160.1	Ca_Kabuli_Chr01	6810807	AA	GG	GG	DRR	101508486	protein ENDOSPERM DEFECTIVE 1-like
SNP_1061_A_6856963	NC_021160.1	Ca_Kabuli_Chr01	6856963	AA	CC	CC	INTERGENIC		
SNP_1062_A_6858819	NC_021160.1	Ca_Kabuli_Chr01	6858819	TT	AA	AA	INTERGENIC		
SNP_1063_A_6869736	NC_021160.1	Ca_Kabuli_Chr01	6869736	CC	GG	GG	INTERGENIC		
SNP_1066_A_7074565	NC_021160.1	Ca_Kabuli_Chr01	7074565	CC	TT	TT	INTERGENIC		
SNP_1067_A_7076158	NC_021160.1	Ca_Kabuli_Chr01	7076158	TT	AA	AA	INTERGENIC		
SNP_1068_A_7076159	NC_021160.1	Ca_Kabuli_Chr01	7076159	CC	AA	AA	INTERGENIC		
SNP_1069_A_7116283	NC_021160.1	Ca_Kabuli_Chr01	7116283	TT	GG	GG	INTERGENIC		
SNP_1070_A_7137250	NC_021160.1	Ca_Kabuli_Chr01	7137250	GG	AA	AA	INTRON	101491602	exocyst complex component SEC8
SNP_1071_A_7154857	NC_021160.1	Ca_Kabuli_Chr01	7154857	TT	CC	CC	INTRON	101491602	exocyst complex component SEC8
SNP_1073_A_7244279	NC_021160.1	Ca_Kabuli_Chr01	7244279	AA	GG	GG	INTERGENIC		
SNP_1074_A_7267507	NC_021160.1	Ca_Kabuli_Chr01	7267507	AA	TT	TT	INTRON	id7011	Unknown function
SNP_1075_A_7272062	NC_021160.1	Ca_Kabuli_Chr01	7272062	AA	CC	CC	INTERGENIC		
SNP_1076_A_7294737	NC_021160.1	Ca_Kabuli_Chr01	7294737	CC	TT	TT	DRR	101493774	uncharacterized LOC101493774
SNP_1077_A_7298873	NC_021160.1	Ca_Kabuli_Chr01	7298873	AA	GG	GG	INTRON	101493774	uncharacterized LOC101493774
SNP_1078_A_7385381	NC_021160.1	Ca_Kabuli_Chr01	7385381	GG	TT	TT	INTERGENIC		
SNP_1079_A_7405971	NC_021160.1	Ca_Kabuli_Chr01	7405971	TT	GG	GG	URR	101506663	pollen-specific leucine-rich repeat extensin-like protein 1
SNP_1080_A_7406219	NC_021160.1	Ca_Kabuli_Chr01	7406219	AA	CC	CC	URR	101506663	pollen-specific leucine-rich repeat extensin-like protein 1
SNP_1081_A_7406228	NC_021160.1	Ca_Kabuli_Chr01	7406228	TT	CC	CC	URR	101506663	pollen-specific leucine-rich repeat extensin-like protein 1
SNP_1083_A_7470104	NC_021160.1	Ca_Kabuli_Chr01	7470104	AA	GG	GG	INTERGENIC		

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SNP_1084_A_7470105	NC_021160.1	Ca_Kabuli_Chr01	7470105	GG	TT	TT	INTERGENIC		
SNP_1085_A_7518441	NC_021160.1	Ca_Kabuli_Chr01	7518441	TT	CC	CC	INTERGENIC		
SNP_1086_A_7588852	NC_021160.1	Ca_Kabuli_Chr01	7588852	GG	CC	CC	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1087_A_7590999	NC_021160.1	Ca_Kabuli_Chr01	7590999	GG	TT	TT	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1088_A_7591009	NC_021160.1	Ca_Kabuli_Chr01	7591009	CC	TT	TT	SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1089_A_7591010	NC_021160.1	Ca_Kabuli_Chr01	7591010	CC	TT	TT	STOP_GAINED	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1090_A_7591025	NC_021160.1	Ca_Kabuli_Chr01	7591025	TT	GG	GG	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1091_A_7591189	NC_021160.1	Ca_Kabuli_Chr01	7591189	AA	CC	CC	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1092_A_7591201	NC_021160.1	Ca_Kabuli_Chr01	7591201	AA	TT	TT	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1093_A_7591206	NC_021160.1	Ca_Kabuli_Chr01	7591206	GG	AA	AA	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1094_A_7591307	NC_021160.1	Ca_Kabuli_Chr01	7591307	TT	CC	CC	SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1095_A_7591311	NC_021160.1	Ca_Kabuli_Chr01	7591311	GG	TT	TT	STOP_GAINED	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1096_A_7591327	NC_021160.1	Ca_Kabuli_Chr01	7591327	CC	TT	TT	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1097_A_7591542	NC_021160.1	Ca_Kabuli_Chr01	7591542	GG	AA	AA	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1098_A_7591548	NC_021160.1	Ca_Kabuli_Chr01	7591548	GG	CC	CC	INTRON	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1099_A_7591589	NC_021160.1	Ca_Kabuli_Chr01	7591589	GG	AA	AA	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1100_A_7591623	NC_021160.1	Ca_Kabuli_Chr01	7591623	CC	TT	TT	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1101_A_7591627	NC_021160.1	Ca_Kabuli_Chr01	7591627	GG	AA	AA	SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1102_A_7591850	NC_021160.1	Ca_Kabuli_Chr01	7591850	GG	TT	TT	NON_SYNONYMOUS_CODING	101506998	homeobox-leucine zipper protein HDG11-like
SNP_1103_A_7596953	NC_021160.1	Ca_Kabuli_Chr01	7596953	GG	AA	AA	DRR	101507325	homeobox-leucine zipper protein HDG11-like
SNP_1104_A_7618748	NC_021160.1	Ca_Kabuli_Chr01	7618748	CC	TT	TT	INTERGENIC		
SNP_1105_A_7627213	NC_021160.1	Ca_Kabuli_Chr01	7627213	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1108_A_7635942	NC_021160.1	Ca_Kabuli_Chr01	7635942	AA	GG	GG	INTERGENIC		
SNP_1109_A_7639341	NC_021160.1	Ca_Kabuli_Chr01	7639341	CC	AA	AA	INTERGENIC		
SNP_1110_A_7639348	NC_021160.1	Ca_Kabuli_Chr01	7639348	TT	CC	CC	INTERGENIC		
SNP_1111_A_7649607	NC_021160.1	Ca_Kabuli_Chr01	7649607	TT	CC	CC	DRR	101504198	tubulin beta chain
SNP_1112_A_7652089	NC_021160.1	Ca_Kabuli_Chr01	7652089	CC	TT	TT	INTRON	101504198	tubulin beta chain
SNP_1113_A_7656292	NC_021160.1	Ca_Kabuli_Chr01	7656292	AA	GG	GG	INTERGENIC		
SNP_1114_A_7656300	NC_021160.1	Ca_Kabuli_Chr01	7656300	TT	AA	AA	INTERGENIC		
SNP_1115_A_7657903	NC_021160.1	Ca_Kabuli_Chr01	7657903	AA	CC	CC	INTERGENIC		
SNP_1116_A_7657905	NC_021160.1	Ca_Kabuli_Chr01	7657905	GG	TT	TT	INTERGENIC		
SNP_1117_A_7660222	NC_021160.1	Ca_Kabuli_Chr01	7660222	TT	AA	AA	INTERGENIC		
SNP_1118_A_7661355	NC_021160.1	Ca_Kabuli_Chr01	7661355	AA	GG	GG	INTERGENIC		
SNP_1119_A_7661375	NC_021160.1	Ca_Kabuli_Chr01	7661375	CC	TT	TT	INTERGENIC		
SNP_1120_A_7661387	NC_021160.1	Ca_Kabuli_Chr01	7661387	TT	CC	CC	INTERGENIC		
SNP_1121_A_7661799	NC_021160.1	Ca_Kabuli_Chr01	7661799	CC	AA	AA	INTERGENIC		
SNP_1122_A_7661826	NC_021160.1	Ca_Kabuli_Chr01	7661826	AA	TT	TT	INTERGENIC		
SNP_1123_A_7663858	NC_021160.1	Ca_Kabuli_Chr01	7663858	CC	TT	TT	DRR	101504530	uncharacterized LOC101504530
SNP_1124_A_7664958	NC_021160.1	Ca_Kabuli_Chr01	7664958	GG	CC	CC	NON_SYNONYMOUS_CODING	101504530	uncharacterized LOC101504530
SNP_1125_A_7676955	NC_021160.1	Ca_Kabuli_Chr01	7676955	TT	CC	CC	INTERGENIC		
SNP_1126_A_7676963	NC_021160.1	Ca_Kabuli_Chr01	7676963	CC	TT	TT	INTERGENIC		
SNP_1127_A_7676964	NC_021160.1	Ca_Kabuli_Chr01	7676964	CC	TT	TT	INTERGENIC		
SNP_1129_A_7690044	NC_021160.1	Ca_Kabuli_Chr01	7690044	AA	GG	GG	INTERGENIC		
SNP_1130_A_7699539	NC_021160.1	Ca_Kabuli_Chr01	7699539	TT	CC	CC	URR	101506453	cannabidiolic acid synthase-like 1

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SNP_1131_A_7699983	NC_021160.1	Ca_Kabuli_Chr01	7699983	CC	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1132_A_7699986	NC_021160.1	Ca_Kabuli_Chr01	7699986	TT	CC	CC	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1133_A_7700003	NC_021160.1	Ca_Kabuli_Chr01	7700003	AA	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1134_A_7700312	NC_021160.1	Ca_Kabuli_Chr01	7700312	TT	AA	AA	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1135_A_7700313	NC_021160.1	Ca_Kabuli_Chr01	7700313	CC	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1136_A_7700320	NC_021160.1	Ca_Kabuli_Chr01	7700320	AA	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1137_A_7700342	NC_021160.1	Ca_Kabuli_Chr01	7700342	CC	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1138_A_7700383	NC_021160.1	Ca_Kabuli_Chr01	7700383	GG	AA	AA	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1139_A_7700924	NC_021160.1	Ca_Kabuli_Chr01	7700924	GG	TT	TT	URR	101506453	cannabidiolic acid synthase-like 1
SNP_1140_A_7708021	NC_021160.1	Ca_Kabuli_Chr01	7708021	CC	TT	TT	DRR	101506123	transcription factor IIIB 70 kDa subunit
SNP_1141_A_7711886	NC_021160.1	Ca_Kabuli_Chr01	7711886	AA	TT	TT	URR	101506123	transcription factor IIIB 70 kDa subunit
SNP_1142_A_7713352	NC_021160.1	Ca_Kabuli_Chr01	7713352	GG	TT	TT	INTERGENIC		
SNP_1143_A_7713353	NC_021160.1	Ca_Kabuli_Chr01	7713353	TT	AA	AA	INTERGENIC		
SNP_1144_A_7713372	NC_021160.1	Ca_Kabuli_Chr01	7713372	TT	AA	AA	INTERGENIC		
SNP_1145_A_7727288	NC_021160.1	Ca_Kabuli_Chr01	7727288	TT	CC	CC	INTRON	101508264	reticuline oxidase-like protein
SNP_1146_A_7727328	NC_021160.1	Ca_Kabuli_Chr01	7727328	CC	TT	TT	INTRON	101508264	reticuline oxidase-like protein
SNP_1147_A_7729033	NC_021160.1	Ca_Kabuli_Chr01	7729033	TT	CC	CC	INTRON	101508264	reticuline oxidase-like protein
SNP_1148_A_7729034	NC_021160.1	Ca_Kabuli_Chr01	7729034	GG	TT	TT	INTRON	101508264	reticuline oxidase-like protein
SNP_1149_A_7729038	NC_021160.1	Ca_Kabuli_Chr01	7729038	GG	AA	AA	INTRON	101508264	reticuline oxidase-like protein
SNP_1150_A_7729076	NC_021160.1	Ca_Kabuli_Chr01	7729076	GG	AA	AA	INTRON	101508264	reticuline oxidase-like protein
SNP_1151_A_7729697	NC_021160.1	Ca_Kabuli_Chr01	7729697	GG	AA	AA	INTRON	101508264	reticuline oxidase-like protein
SNP_1152_A_7732997	NC_021160.1	Ca_Kabuli_Chr01	7732997	CC	TT	TT	INTRON	101508264	reticuline oxidase-like protein

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SNP_1153_A_7733274	NC_021160.1	Ca_Kabuli_Chr01	7733274	TT	AA	AA	INTRON	101508264	reticuline oxidase-like protein
SNP_1154_A_7733291	NC_021160.1	Ca_Kabuli_Chr01	7733291	TT	CC	CC	INTRON	101508264	reticuline oxidase-like protein
SNP_1155_A_7733470	NC_021160.1	Ca_Kabuli_Chr01	7733470	GG	AA	AA	INTRON	101508264	reticuline oxidase-like protein
SNP_1156_A_7745785	NC_021160.1	Ca_Kabuli_Chr01	7745785	AA	GG	GG	NON_SYNONYMOUS_CODING	101508264	reticuline oxidase-like protein
SNP_1157_A_7746050	NC_021160.1	Ca_Kabuli_Chr01	7746050	CC	AA	AA	NON_SYNONYMOUS_CODING	101508264	reticuline oxidase-like protein
SNP_1158_A_7746285	NC_021160.1	Ca_Kabuli_Chr01	7746285	AA	CC	CC	SYNONYMOUS_CODING	101508264	reticuline oxidase-like protein
SNP_1159_A_7746358	NC_021160.1	Ca_Kabuli_Chr01	7746358	TT	CC	CC	SYNONYMOUS_CODING	101508264	reticuline oxidase-like protein
SNP_1160_A_7746363	NC_021160.1	Ca_Kabuli_Chr01	7746363	GG	CC	CC	SYNONYMOUS_CODING	101508264	reticuline oxidase-like protein
SNP_1161_A_7746536	NC_021160.1	Ca_Kabuli_Chr01	7746536	TT	GG	GG	URR	101508264	reticuline oxidase-like protein
SNP_1162_A_7746553	NC_021160.1	Ca_Kabuli_Chr01	7746553	TT	GG	GG	URR	101508264	reticuline oxidase-like protein
SNP_1163_A_7746639	NC_021160.1	Ca_Kabuli_Chr01	7746639	AA	GG	GG	URR	101508264	reticuline oxidase-like protein
SNP_1164_A_7746786	NC_021160.1	Ca_Kabuli_Chr01	7746786	AA	GG	GG	URR	101508264	reticuline oxidase-like protein
SNP_1165_A_7752977	NC_021160.1	Ca_Kabuli_Chr01	7752977	GG	AA	AA	URR	101506778	reticuline oxidase-like protein
SNP_1166_A_7753010	NC_021160.1	Ca_Kabuli_Chr01	7753010	TT	AA	AA	URR	101506778	reticuline oxidase-like protein
SNP_1167_A_7753188	NC_021160.1	Ca_Kabuli_Chr01	7753188	TT	CC	CC	URR	101506778	reticuline oxidase-like protein
SNP_1168_A_7753225	NC_021160.1	Ca_Kabuli_Chr01	7753225	AA	GG	GG	URR	101506778	reticuline oxidase-like protein
SNP_1169_A_7753501	NC_021160.1	Ca_Kabuli_Chr01	7753501	TT	CC	CC	URR	101506778	reticuline oxidase-like protein
SNP_1170_A_7754442	NC_021160.1	Ca_Kabuli_Chr01	7754442	CC	TT	TT	INTERGENIC		
SNP_1171_A_7756038	NC_021160.1	Ca_Kabuli_Chr01	7756038	AA	GG	GG	INTERGENIC		
SNP_1172_A_7756080	NC_021160.1	Ca_Kabuli_Chr01	7756080	TT	CC	CC	INTERGENIC		
SNP_1173_A_7756213	NC_021160.1	Ca_Kabuli_Chr01	7756213	TT	AA	AA	INTERGENIC		
SNP_1174_A_7760833	NC_021160.1	Ca_Kabuli_Chr01	7760833	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1175_A_7762216	NC_021160.1	Ca_Kabuli_Chr01	7762216	GG	TT	TT	INTERGENIC		
SNP_1176_A_7762250	NC_021160.1	Ca_Kabuli_Chr01	7762250	TT	CC	CC	INTERGENIC		
SNP_1177_A_7764171	NC_021160.1	Ca_Kabuli_Chr01	7764171	CC	TT	TT	INTERGENIC		
SNP_1178_A_7774815	NC_021160.1	Ca_Kabuli_Chr01	7774815	GG	AA	AA	INTERGENIC		
SNP_1179_A_7774982	NC_021160.1	Ca_Kabuli_Chr01	7774982	GG	AA	AA	INTERGENIC		
SNP_1181_A_7775162	NC_021160.1	Ca_Kabuli_Chr01	7775162	CC	TT	TT	INTERGENIC		
SNP_1182_A_7775191	NC_021160.1	Ca_Kabuli_Chr01	7775191	CC	AA	AA	INTERGENIC		
SNP_1183_A_7775342	NC_021160.1	Ca_Kabuli_Chr01	7775342	GG	TT	TT	INTERGENIC		
SNP_1184_A_7775385	NC_021160.1	Ca_Kabuli_Chr01	7775385	TT	GG	GG	INTERGENIC		
SNP_1185_A_7776525	NC_021160.1	Ca_Kabuli_Chr01	7776525	AA	TT	TT	INTERGENIC		
SNP_1186_A_7776709	NC_021160.1	Ca_Kabuli_Chr01	7776709	TT	CC	CC	INTERGENIC		
SNP_1187_A_7777585	NC_021160.1	Ca_Kabuli_Chr01	7777585	AA	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1188_A_7777649	NC_021160.1	Ca_Kabuli_Chr01	7777649	TT	CC	CC	DRR	101507115	reticuline oxidase-like protein
SNP_1189_A_7777658	NC_021160.1	Ca_Kabuli_Chr01	7777658	GG	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1190_A_7777823	NC_021160.1	Ca_Kabuli_Chr01	7777823	AA	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1191_A_7777845	NC_021160.1	Ca_Kabuli_Chr01	7777845	AA	GG	GG	DRR	101507115	reticuline oxidase-like protein
SNP_1192_A_7778082	NC_021160.1	Ca_Kabuli_Chr01	7778082	AA	GG	GG	DRR	101507115	reticuline oxidase-like protein
SNP_1193_A_7778083	NC_021160.1	Ca_Kabuli_Chr01	7778083	CC	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1194_A_7778084	NC_021160.1	Ca_Kabuli_Chr01	7778084	TT	CC	CC	DRR	101507115	reticuline oxidase-like protein
SNP_1195_A_7778098	NC_021160.1	Ca_Kabuli_Chr01	7778098	AA	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1196_A_7778120	NC_021160.1	Ca_Kabuli_Chr01	7778120	CC	TT	TT	DRR	101507115	reticuline oxidase-like protein
SNP_1197_A_7778186	NC_021160.1	Ca_Kabuli_Chr01	7778186	TT	CC	CC	DRR	101507115	reticuline oxidase-like protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1199_A_7778800	NC_021160.1	Ca_Kabuli_Chr01	7778800	CC	GG	GG	NON_SYNONYMOUS_CODING	101507115	reticuline oxidase-like protein
SNP_1200_A_7780276	NC_021160.1	Ca_Kabuli_Chr01	7780276	TT	CC	CC	URR	101507115	reticuline oxidase-like protein
SNP_1201_A_7784053	NC_021160.1	Ca_Kabuli_Chr01	7784053	AA	GG	GG	INTERGENIC		
SNP_1202_A_7784078	NC_021160.1	Ca_Kabuli_Chr01	7784078	AA	CC	CC	INTERGENIC		
SNP_1203_A_7784085	NC_021160.1	Ca_Kabuli_Chr01	7784085	GG	CC	CC	INTERGENIC		
SNP_1204_A_7785060	NC_021160.1	Ca_Kabuli_Chr01	7785060	TT	CC	CC	INTERGENIC		
SNP_1205_A_7787702	NC_021160.1	Ca_Kabuli_Chr01	7787702	AA	CC	CC	INTERGENIC		
SNP_1206_A_7788799	NC_021160.1	Ca_Kabuli_Chr01	7788799	TT	CC	CC	INTERGENIC		
SNP_1207_A_7790461	NC_021160.1	Ca_Kabuli_Chr01	7790461	TT	CC	CC	INTERGENIC		
SNP_1209_A_7793072	NC_021160.1	Ca_Kabuli_Chr01	7793072	AA	GG	GG	INTERGENIC		
SNP_1210_A_7793094	NC_021160.1	Ca_Kabuli_Chr01	7793094	AA	CC	CC	INTERGENIC		
SNP_1211_A_7802961	NC_021160.1	Ca_Kabuli_Chr01	7802961	TT	CC	CC	INTERGENIC		
SNP_1212_A_7809854	NC_021160.1	Ca_Kabuli_Chr01	7809854	GG	AA	AA	URR	101507437	wall-associated receptor kinase-like 8
SNP_1213_A_7810543	NC_021160.1	Ca_Kabuli_Chr01	7810543	GG	AA	AA	URR	101507437	wall-associated receptor kinase-like 8
SNP_1214_A_7810588	NC_021160.1	Ca_Kabuli_Chr01	7810588	AA	CC	CC	URR	101507437	wall-associated receptor kinase-like 8
SNP_1216_A_7819432	NC_021160.1	Ca_Kabuli_Chr01	7819432	CC	TT	TT	URR	101507742	uncharacterized LOC101507742
SNP_1217_A_7819750	NC_021160.1	Ca_Kabuli_Chr01	7819750	CC	TT	TT	URR	101507742	uncharacterized LOC101507742
SNP_1218_A_7820043	NC_021160.1	Ca_Kabuli_Chr01	7820043	CC	TT	TT	INTRON	101508066	alpha-glucosidase
SNP_1219_A_7824724	NC_021160.1	Ca_Kabuli_Chr01	7824724	AA	GG	GG	URR	101508066	alpha-glucosidase
SNP_1220_A_7836859	NC_021160.1	Ca_Kabuli_Chr01	7836859	GG	TT	TT	INTERGENIC		
SNP_1221_A_7845921	NC_021160.1	Ca_Kabuli_Chr01	7845921	AA	CC	CC	INTERGENIC		
SNP_1222_A_7865938	NC_021160.1	Ca_Kabuli_Chr01	7865938	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1223_A_7874781	NC_021160.1	Ca_Kabuli_Chr01	7874781	AA	TT	TT	URR	101508899	reticuline oxidase-like protein
SNP_1224_A_7888856	NC_021160.1	Ca_Kabuli_Chr01	7888856	TT	CC	CC	INTERGENIC		
SNP_1225_A_7889796	NC_021160.1	Ca_Kabuli_Chr01	7889796	TT	CC	CC	INTERGENIC		
SNP_1226_A_7889980	NC_021160.1	Ca_Kabuli_Chr01	7889980	TT	CC	CC	INTERGENIC		
SNP_1227_A_7893284	NC_021160.1	Ca_Kabuli_Chr01	7893284	CC	TT	TT	INTERGENIC		
SNP_1228_A_7893331	NC_021160.1	Ca_Kabuli_Chr01	7893331	GG	AA	AA	INTERGENIC		
SNP_1229_A_7893388	NC_021160.1	Ca_Kabuli_Chr01	7893388	TT	CC	CC	INTERGENIC		
SNP_1230_A_7893413	NC_021160.1	Ca_Kabuli_Chr01	7893413	CC	TT	TT	INTERGENIC		
SNP_1231_A_7893415	NC_021160.1	Ca_Kabuli_Chr01	7893415	AA	GG	GG	INTERGENIC		
SNP_1232_A_7893439	NC_021160.1	Ca_Kabuli_Chr01	7893439	CC	TT	TT	INTERGENIC		
SNP_1233_A_7893446	NC_021160.1	Ca_Kabuli_Chr01	7893446	AA	GG	GG	INTERGENIC		
SNP_1235_A_7900343	NC_021160.1	Ca_Kabuli_Chr01	7900343	AA	GG	GG	URR	101509540	uncharacterized LOC101509540
SNP_1236_A_7901383	NC_021160.1	Ca_Kabuli_Chr01	7901383	GG	AA	AA	INTERGENIC		
SNP_1237_A_7902044	NC_021160.1	Ca_Kabuli_Chr01	7902044	GG	CC	CC	INTERGENIC		
SNP_1238_A_7905478	NC_021160.1	Ca_Kabuli_Chr01	7905478	TT	GG	GG	INTRON	101510295	primase homolog protein
SNP_1239_A_7916745	NC_021160.1	Ca_Kabuli_Chr01	7916745	CC	GG	GG	SYNONYMOUS_CODING	101510836	50S ribosomal protein L12, chloroplastic
SNP_1240_A_7923757	NC_021160.1	Ca_Kabuli_Chr01	7923757	GG	AA	AA	SYNONYMOUS_CODING	101511158	probable folate-biopterin transporter 7
SNP_1241_A_7923804	NC_021160.1	Ca_Kabuli_Chr01	7923804	GG	AA	AA	INTRON	101511158	probable folate-biopterin transporter 7
SNP_1242_A_7923854	NC_021160.1	Ca_Kabuli_Chr01	7923854	GG	TT	TT	INTRON	101511158	probable folate-biopterin transporter 7
SNP_1243_A_7927909	NC_021160.1	Ca_Kabuli_Chr01	7927909	CC	TT	TT	URR	101511158	probable folate-biopterin transporter 7
SNP_1244_A_7930977	NC_021160.1	Ca_Kabuli_Chr01	7930977	AA	TT	TT	INTERGENIC		
SNP_1245_A_7932311	NC_021160.1	Ca_Kabuli_Chr01	7932311	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1246_A_7932318	NC_021160.1	Ca_Kabuli_Chr01	7932318	GG	AA	AA	INTERGENIC		
SNP_1247_A_7937895	NC_021160.1	Ca_Kabuli_Chr01	7937895	TT	GG	GG	INTERGENIC		
SNP_1248_A_7943201	NC_021160.1	Ca_Kabuli_Chr01	7943201	AA	GG	GG	INTERGENIC		
SNP_1249_A_7943419	NC_021160.1	Ca_Kabuli_Chr01	7943419	GG	AA	AA	INTERGENIC		
SNP_1250_A_7943440	NC_021160.1	Ca_Kabuli_Chr01	7943440	AA	CC	CC	INTERGENIC		
SNP_1251_A_7945204	NC_021160.1	Ca_Kabuli_Chr01	7945204	AA	TT	TT	INTERGENIC		
SNP_1252_A_7945914	NC_021160.1	Ca_Kabuli_Chr01	7945914	CC	TT	TT	URR	101511470	ent-kaurenoic acid oxidase 2-like
SNP_1253_A_7946151	NC_021160.1	Ca_Kabuli_Chr01	7946151	CC	TT	TT	URR	101511470	ent-kaurenoic acid oxidase 2-like
SNP_1254_A_7946179	NC_021160.1	Ca_Kabuli_Chr01	7946179	TT	CC	CC	URR	101511470	ent-kaurenoic acid oxidase 2-like
SNP_1256_A_7948539	NC_021160.1	Ca_Kabuli_Chr01	7948539	TT	AA	AA	DRR	101512107	ent-kaurenoic acid oxidase 2-like
SNP_1257_A_7955248	NC_021160.1	Ca_Kabuli_Chr01	7955248	AA	GG	GG	INTRON	101512107	ent-kaurenoic acid oxidase 2-like
SNP_1258_A_7955303	NC_021160.1	Ca_Kabuli_Chr01	7955303	AA	GG	GG	INTRON	101512107	ent-kaurenoic acid oxidase 2-like
SNP_1259_A_7958254	NC_021160.1	Ca_Kabuli_Chr01	7958254	GG	AA	AA	URR	101512107	ent-kaurenoic acid oxidase 2-like
SNP_1260_A_7962897	NC_021160.1	Ca_Kabuli_Chr01	7962897	CC	AA	AA	INTERGENIC		
SNP_1261_A_7963175	NC_021160.1	Ca_Kabuli_Chr01	7963175	AA	GG	GG	INTERGENIC		
SNP_1262_A_7963349	NC_021160.1	Ca_Kabuli_Chr01	7963349	AA	TT	TT	INTERGENIC		
SNP_1263_A_7975597	NC_021160.1	Ca_Kabuli_Chr01	7975597	GG	AA	AA	INTERGENIC		
SNP_1264_A_7979596	NC_021160.1	Ca_Kabuli_Chr01	7979596	AA	TT	TT	INTRON	101513202	uncharacterized oxidoreductase C24B10.20
SNP_1265_A_7982103	NC_021160.1	Ca_Kabuli_Chr01	7982103	AA	GG	GG	URR	101513202	uncharacterized oxidoreductase C24B10.20
SNP_1266_A_7983016	NC_021160.1	Ca_Kabuli_Chr01	7983016	GG	TT	TT	URR	101513202	uncharacterized oxidoreductase C24B10.20
SNP_1267_A_7991980	NC_021160.1	Ca_Kabuli_Chr01	7991980	CC	GG	GG	INTRON	101513524	probable WRKY transcription factor 14
SNP_1269_A_7998097	NC_021160.1	Ca_Kabuli_Chr01	7998097	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_1270_A_7998363	NC_021160.1	Ca_Kabuli_Chr01	7998363	AA	GG	GG	INTERGENIC			
SNP_1271_A_7998365	NC_021160.1	Ca_Kabuli_Chr01	7998365	TT	CC	CC	INTERGENIC			
SNP_1272_A_8000843	NC_021160.1	Ca_Kabuli_Chr01	8000843	TT	CC	CC	INTERGENIC			
SNP_1274_A_8002262	NC_021160.1	Ca_Kabuli_Chr01	8002262	TT	AA	AA	INTERGENIC			
SNP_1275_A_8002265	NC_021160.1	Ca_Kabuli_Chr01	8002265	AA	TT	TT	INTERGENIC			
SNP_1276_A_8002686	NC_021160.1	Ca_Kabuli_Chr01	8002686	TT	CC	CC	INTERGENIC			
SNP_1277_A_8002723	NC_021160.1	Ca_Kabuli_Chr01	8002723	TT	CC	CC	INTERGENIC			
SNP_1278_A_8002932	NC_021160.1	Ca_Kabuli_Chr01	8002932	TT	CC	CC	INTERGENIC			
SNP_1279_A_8003081	NC_021160.1	Ca_Kabuli_Chr01	8003081	TT	CC	CC	INTERGENIC			
SNP_1280_A_8005303	NC_021160.1	Ca_Kabuli_Chr01	8005303	AA	TT	TT	INTERGENIC			
SNP_1281_A_8005312	NC_021160.1	Ca_Kabuli_Chr01	8005312	TT	CC	CC	INTERGENIC			
SNP_1283_A_8007126	NC_021160.1	Ca_Kabuli_Chr01	8007126	AA	CC	CC	INTERGENIC			
SNP_1284_A_8007185	NC_021160.1	Ca_Kabuli_Chr01	8007185	GG	AA	AA	INTERGENIC			
SNP_1285_A_8007479	NC_021160.1	Ca_Kabuli_Chr01	8007479	CC	TT	TT	INTERGENIC			
SNP_1286_A_8008484	NC_021160.1	Ca_Kabuli_Chr01	8008484	GG	AA	AA	INTERGENIC			
SNP_1287_A_8008754	NC_021160.1	Ca_Kabuli_Chr01	8008754	TT	CC	CC	INTERGENIC			
SNP_1288_A_8009080	NC_021160.1	Ca_Kabuli_Chr01	8009080	CC	TT	TT	DRR	101513831	cell division control protein 2 homolog 1	
SNP_1289_A_8009096	NC_021160.1	Ca_Kabuli_Chr01	8009096	AA	GG	GG	DRR	101513831	cell division control protein 2 homolog 1	
SNP_1290_A_8009103	NC_021160.1	Ca_Kabuli_Chr01	8009103	GG	TT	TT	DRR	101513831	cell division control protein 2 homolog 1	
SNP_1291_A_8021535	NC_021160.1	Ca_Kabuli_Chr01	8021535	AA	GG	GG	INTERGENIC			
SNP_1292_A_8021855	NC_021160.1	Ca_Kabuli_Chr01	8021855	AA	CC	CC	INTERGENIC			
SNP_1293_A_8025088	NC_021160.1	Ca_Kabuli_Chr01	8025088	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1294_A_8025764	NC_021160.1	Ca_Kabuli_Chr01	8025764	TT	CC	CC	INTERGENIC		
SNP_1295_A_8028325	NC_021160.1	Ca_Kabuli_Chr01	8028325	TT	CC	CC	INTERGENIC		
SNP_1296_A_8029980	NC_021160.1	Ca_Kabuli_Chr01	8029980	CC	TT	TT	INTERGENIC		
SNP_1297_A_8030798	NC_021160.1	Ca_Kabuli_Chr01	8030798	GG	AA	AA	INTERGENIC		
SNP_1298_A_8030807	NC_021160.1	Ca_Kabuli_Chr01	8030807	GG	AA	AA	INTERGENIC		
SNP_1299_A_8030943	NC_021160.1	Ca_Kabuli_Chr01	8030943	TT	CC	CC	INTERGENIC		
SNP_1300_A_8031611	NC_021160.1	Ca_Kabuli_Chr01	8031611	TT	CC	CC	INTERGENIC		
SNP_1301_A_8031631	NC_021160.1	Ca_Kabuli_Chr01	8031631	CC	TT	TT	INTERGENIC		
SNP_1302_A_8033179	NC_021160.1	Ca_Kabuli_Chr01	8033179	CC	TT	TT	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1304_A_8035538	NC_021160.1	Ca_Kabuli_Chr01	8035538	AA	GG	GG	INTRON	101514177	UDP-arabinose 4-epimerase 1
SNP_1305_A_8038356	NC_021160.1	Ca_Kabuli_Chr01	8038356	TT	GG	GG	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1306_A_8038407	NC_021160.1	Ca_Kabuli_Chr01	8038407	TT	AA	AA	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1307_A_8038695	NC_021160.1	Ca_Kabuli_Chr01	8038695	AA	GG	GG	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1308_A_8038700	NC_021160.1	Ca_Kabuli_Chr01	8038700	AA	GG	GG	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1309_A_8039862	NC_021160.1	Ca_Kabuli_Chr01	8039862	AA	TT	TT	URR	101514177	UDP-arabinose 4-epimerase 1
SNP_1310_A_8041316	NC_021160.1	Ca_Kabuli_Chr01	8041316	GG	CC	CC	URR	101509215	Unknown function
SNP_1311_A_8042483	NC_021160.1	Ca_Kabuli_Chr01	8042483	GG	AA	AA	URR	101509215	Unknown function
SNP_1312_A_8042489	NC_021160.1	Ca_Kabuli_Chr01	8042489	AA	GG	GG	URR	101509215	Unknown function
SNP_1313_A_8042633	NC_021160.1	Ca_Kabuli_Chr01	8042633	AA	GG	GG	URR	101509215	Unknown function
SNP_1314_A_8045915	NC_021160.1	Ca_Kabuli_Chr01	8045915	AA	GG	GG	INTRON	101514501	coatomer subunit epsilon-1-like
SNP_1315_A_8047547	NC_021160.1	Ca_Kabuli_Chr01	8047547	TT	CC	CC	INTRON	101514501	coatomer subunit epsilon-1-like
SNP_1316_A_8050267	NC_021160.1	Ca_Kabuli_Chr01	8050267	CC	GG	GG	URR	101514501	coatomer subunit epsilon-1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1317_A_8062380	NC_021160.1	Ca_Kabuli_Chr01	8062380	TT	CC	CC	DRR	101514822	heat shock cognate 70 kDa protein-like
SNP_1318_A_8062653	NC_021160.1	Ca_Kabuli_Chr01	8062653	CC	TT	TT	DRR	101514822	heat shock cognate 70 kDa protein-like
SNP_1319_A_8075270	NC_021160.1	Ca_Kabuli_Chr01	8075270	TT	CC	CC	INTERGENIC		
SNP_1320_A_8095501	NC_021160.1	Ca_Kabuli_Chr01	8095501	GG	CC	CC	INTERGENIC		
SNP_1321_A_8097630	NC_021160.1	Ca_Kabuli_Chr01	8097630	TT	CC	CC	INTERGENIC		
SNP_1322_A_8098025	NC_021160.1	Ca_Kabuli_Chr01	8098025	TT	CC	CC	INTERGENIC		
SNP_1323_A_8102329	NC_021160.1	Ca_Kabuli_Chr01	8102329	CC	TT	TT	INTRON	101515467	solute carrier family 25 member 44-like
SNP_1324_A_8106672	NC_021160.1	Ca_Kabuli_Chr01	8106672	AA	GG	GG	DRR	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1325_A_8106699	NC_021160.1	Ca_Kabuli_Chr01	8106699	GG	AA	AA	DRR	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1326_A_8106909	NC_021160.1	Ca_Kabuli_Chr01	8106909	TT	GG	GG	DRR	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1327_A_8106999	NC_021160.1	Ca_Kabuli_Chr01	8106999	CC	TT	TT	DRR	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1328_A_8107001	NC_021160.1	Ca_Kabuli_Chr01	8107001	AA	GG	GG	DRR	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1329_A_8111844	NC_021160.1	Ca_Kabuli_Chr01	8111844	AA	GG	GG	INTRON	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1330_A_8111871	NC_021160.1	Ca_Kabuli_Chr01	8111871	GG	CC	CC	INTRON	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1331_A_8111876	NC_021160.1	Ca_Kabuli_Chr01	8111876	CC	GG	GG	INTRON	101488221	DEAD-box ATP-dependent RNA helicase 46
SNP_1332_A_8116736	NC_021160.1	Ca_Kabuli_Chr01	8116736	GG	AA	AA	INTERGENIC		
SNP_1333_A_8116801	NC_021160.1	Ca_Kabuli_Chr01	8116801	AA	TT	TT	INTERGENIC		
SNP_1334_A_8119398	NC_021160.1	Ca_Kabuli_Chr01	8119398	CC	GG	GG	INTRON	101488552	uncharacterized LOC101488552
SNP_1335_A_8124043	NC_021160.1	Ca_Kabuli_Chr01	8124043	AA	GG	GG	URR	101488552	uncharacterized LOC101488552
SNP_1336_A_8124667	NC_021160.1	Ca_Kabuli_Chr01	8124667	TT	CC	CC	URR	101488552	uncharacterized LOC101488552
SNP_1339_A_8128878	NC_021160.1	Ca_Kabuli_Chr01	8128878	CC	AA	AA	INTERGENIC		
SNP_1340_A_8128886	NC_021160.1	Ca_Kabuli_Chr01	8128886	CC	TT	TT	INTERGENIC		

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SNP_1341_A_8129262	NC_021160.1	Ca_Kabuli_Chr01	8129262	TT	GG	GG	INTERGENIC		
SNP_1342_A_8136977	NC_021160.1	Ca_Kabuli_Chr01	8136977	CC	TT	TT	DRR	101489863	polygalacturonase At1g48100-like
SNP_1343_A_8159812	NC_021160.1	Ca_Kabuli_Chr01	8159812	AA	CC	CC	INTERGENIC		
SNP_1344_A_8170936	NC_021160.1	Ca_Kabuli_Chr01	8170936	TT	CC	CC	INTERGENIC		
SNP_1345_A_8186042	NC_021160.1	Ca_Kabuli_Chr01	8186042	CC	TT	TT	INTERGENIC		
SNP_1346_A_8309120	NC_021160.1	Ca_Kabuli_Chr01	8309120	AA	CC	CC	INTERGENIC		
SNP_1347_A_8309126	NC_021160.1	Ca_Kabuli_Chr01	8309126	TT	GG	GG	INTERGENIC		
SNP_1348_A_8318379	NC_021160.1	Ca_Kabuli_Chr01	8318379	GG	AA	AA	URR	101510837	Unknown function
SNP_1349_A_8319459	NC_021160.1	Ca_Kabuli_Chr01	8319459	AA	GG	GG	URR	101510837	Unknown function
SNP_1350_A_8334996	NC_021160.1	Ca_Kabuli_Chr01	8334996	AA	GG	GG	INTERGENIC		
SNP_1352_A_8415316	NC_021160.1	Ca_Kabuli_Chr01	8415316	CC	GG	GG	DRR	101511159	desiccation-related protein PCC13-62-like
SNP_1353_A_8415326	NC_021160.1	Ca_Kabuli_Chr01	8415326	GG	TT	TT	DRR	101511159	desiccation-related protein PCC13-62-like
SNP_1354_A_8415385	NC_021160.1	Ca_Kabuli_Chr01	8415385	AA	GG	GG	DRR	101511159	desiccation-related protein PCC13-62-like
SNP_1355_A_8415394	NC_021160.1	Ca_Kabuli_Chr01	8415394	CC	TT	TT	DRR	101511159	desiccation-related protein PCC13-62-like
SNP_1357_A_8428211	NC_021160.1	Ca_Kabuli_Chr01	8428211	CC	TT	TT	INTERGENIC		
SNP_1358_A_8434873	NC_021160.1	Ca_Kabuli_Chr01	8434873	CC	TT	TT	INTERGENIC		
SNP_1359_A_8434909	NC_021160.1	Ca_Kabuli_Chr01	8434909	GG	TT	TT	INTERGENIC		
SNP_1360_A_8434995	NC_021160.1	Ca_Kabuli_Chr01	8434995	AA	GG	GG	DRR	101512756	uncharacterized LOC101512756
SNP_1361_A_8435015	NC_021160.1	Ca_Kabuli_Chr01	8435015	GG	AA	AA	DRR	101512756	uncharacterized LOC101512756
SNP_1362_A_8435018	NC_021160.1	Ca_Kabuli_Chr01	8435018	AA	GG	GG	DRR	101512756	uncharacterized LOC101512756
SNP_1363_A_8435167	NC_021160.1	Ca_Kabuli_Chr01	8435167	GG	AA	AA	DRR	101512756	uncharacterized LOC101512756
SNP_1364_A_8435168	NC_021160.1	Ca_Kabuli_Chr01	8435168	AA	GG	GG	DRR	101512756	uncharacterized LOC101512756

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SNP_1365_A_8439624	NC_021160.1	Ca_Kabuli_Chr01	8439624	CC	AA	AA	INTERGENIC		
SNP_1366_A_8470859	NC_021160.1	Ca_Kabuli_Chr01	8470859	CC	AA	AA	DRR	101495694	cell wall / vacuolar inhibitor of fructosidase 1-like
SNP_1367_A_8472739	NC_021160.1	Ca_Kabuli_Chr01	8472739	AA	TT	TT	URR	101495694	cell wall / vacuolar inhibitor of fructosidase 1-like
SNP_1368_A_8558584	NC_021160.1	Ca_Kabuli_Chr01	8558584	TT	AA	AA	INTERGENIC		
SNP_1369_A_8577594	NC_021160.1	Ca_Kabuli_Chr01	8577594	AA	GG	GG	INTERGENIC		
SNP_1370_A_8594261	NC_021160.1	Ca_Kabuli_Chr01	8594261	GG	AA	AA	INTERGENIC		
SNP_1371_A_8628950	NC_021160.1	Ca_Kabuli_Chr01	8628950	CC	TT	TT	INTERGENIC		
SNP_1372_A_8637537	NC_021160.1	Ca_Kabuli_Chr01	8637537	GG	CC	CC	INTRON	101499297	uncharacterized LOC101499297
SNP_1373_A_8659176	NC_021160.1	Ca_Kabuli_Chr01	8659176	TT	CC	CC	INTERGENIC		
SNP_1374_A_8659427	NC_021160.1	Ca_Kabuli_Chr01	8659427	TT	CC	CC	INTERGENIC		
SNP_1375_A_8659443	NC_021160.1	Ca_Kabuli_Chr01	8659443	GG	TT	TT	INTERGENIC		
SNP_1376_A_8659875	NC_021160.1	Ca_Kabuli_Chr01	8659875	GG	AA	AA	INTERGENIC		
SNP_1377_A_8660773	NC_021160.1	Ca_Kabuli_Chr01	8660773	CC	TT	TT	INTERGENIC		
SNP_1378_A_8661179	NC_021160.1	Ca_Kabuli_Chr01	8661179	AA	GG	GG	INTERGENIC		
SNP_1379_A_8661470	NC_021160.1	Ca_Kabuli_Chr01	8661470	GG	TT	TT	INTERGENIC		
SNP_1380_A_8714406	NC_021160.1	Ca_Kabuli_Chr01	8714406	TT	AA	AA	DRR	101490520	pectinesterase 3-like
SNP_1381_A_8756934	NC_021160.1	Ca_Kabuli_Chr01	8756934	CC	TT	TT	INTERGENIC		
SNP_1382_A_8797893	NC_021160.1	Ca_Kabuli_Chr01	8797893	TT	AA	AA	URR	101494716	galactoside 2-alpha-L-fucosyltransferase-like
SNP_1383_A_8797898	NC_021160.1	Ca_Kabuli_Chr01	8797898	CC	TT	TT	URR	101494716	galactoside 2-alpha-L-fucosyltransferase-like
SNP_1385_A_8833526	NC_021160.1	Ca_Kabuli_Chr01	8833526	AA	CC	CC	INTERGENIC		
SNP_1386_A_8863822	NC_021160.1	Ca_Kabuli_Chr01	8863822	TT	AA	AA	INTRON	101497779	cinnamoyl-CoA reductase 1
SNP_1387_A_8878277	NC_021160.1	Ca_Kabuli_Chr01	8878277	TT	CC	CC	DRR	101499298	Golgi SNAP receptor complex member 1-1

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SNP_1388_A_8878281	NC_021160.1	Ca_Kabuli_Chr01	8878281	TT	GG	GG	DRR	101499298	Golgi SNAP receptor complex member 1-1
SNP_1390_A_8909430	NC_021160.1	Ca_Kabuli_Chr01	8909430	AA	CC	CC	INTERGENIC		
SNP_1391_A_8909441	NC_021160.1	Ca_Kabuli_Chr01	8909441	AA	CC	CC	INTERGENIC		
SNP_1392_A_9055723	NC_021160.1	Ca_Kabuli_Chr01	9055723	TT	CC	CC	INTERGENIC		
SNP_1393_A_9082410	NC_021160.1	Ca_Kabuli_Chr01	9082410	GG	AA	AA	DRR	101511160	PTI1-like tyrosine-protein kinase At3g15890
SNP_1394_A_9166643	NC_021160.1	Ca_Kabuli_Chr01	9166643	AA	TT	TT	INTERGENIC		
SNP_1395_A_9177673	NC_021160.1	Ca_Kabuli_Chr01	9177673	TT	CC	CC	URR	101515366	uncharacterized LOC101515366
SNP_1396_A_9183850	NC_021160.1	Ca_Kabuli_Chr01	9183850	AA	GG	GG	URR	101515699	probable polygalacturonase At3g15720
SNP_1397_A_9183851	NC_021160.1	Ca_Kabuli_Chr01	9183851	TT	GG	GG	URR	101515699	probable polygalacturonase At3g15720
SNP_1398_A_9188607	NC_021160.1	Ca_Kabuli_Chr01	9188607	AA	GG	GG	DRR	101489124	signal peptidase complex catalytic subunit SEC11C
SNP_1399_A_9188608	NC_021160.1	Ca_Kabuli_Chr01	9188608	AA	GG	GG	DRR	101489124	signal peptidase complex catalytic subunit SEC11C
SNP_1400_A_9232975	NC_021160.1	Ca_Kabuli_Chr01	9232975	TT	CC	CC	INTERGENIC		
SNP_1401_A_9232992	NC_021160.1	Ca_Kabuli_Chr01	9232992	GG	AA	AA	INTERGENIC		
SNP_1402_A_9232994	NC_021160.1	Ca_Kabuli_Chr01	9232994	CC	TT	TT	INTERGENIC		
SNP_1403_A_9233030	NC_021160.1	Ca_Kabuli_Chr01	9233030	AA	CC	CC	INTERGENIC		
SNP_1404_A_9233050	NC_021160.1	Ca_Kabuli_Chr01	9233050	TT	CC	CC	INTERGENIC		
SNP_1405_A_9233058	NC_021160.1	Ca_Kabuli_Chr01	9233058	TT	CC	CC	INTERGENIC		
SNP_1406_A_9233276	NC_021160.1	Ca_Kabuli_Chr01	9233276	CC	TT	TT	INTERGENIC		
SNP_1407_A_9233284	NC_021160.1	Ca_Kabuli_Chr01	9233284	CC	TT	TT	INTERGENIC		
SNP_1408_A_9233305	NC_021160.1	Ca_Kabuli_Chr01	9233305	CC	TT	TT	INTERGENIC		
SNP_1409_A_9233316	NC_021160.1	Ca_Kabuli_Chr01	9233316	TT	CC	CC	INTERGENIC		
SNP_1410_A_9233391	NC_021160.1	Ca_Kabuli_Chr01	9233391	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1411_A_9233445	NC_021160.1	Ca_Kabuli_Chr01	9233445	AA	TT	TT	INTERGENIC		
SNP_1412_A_9233489	NC_021160.1	Ca_Kabuli_Chr01	9233489	GG	AA	AA	INTERGENIC		
SNP_1413_A_9233679	NC_021160.1	Ca_Kabuli_Chr01	9233679	GG	AA	AA	INTERGENIC		
SNP_1414_A_9233682	NC_021160.1	Ca_Kabuli_Chr01	9233682	GG	TT	TT	INTERGENIC		
SNP_1416_A_9233913	NC_021160.1	Ca_Kabuli_Chr01	9233913	TT	AA	AA	INTERGENIC		
SNP_1417_A_9233918	NC_021160.1	Ca_Kabuli_Chr01	9233918	TT	AA	AA	INTERGENIC		
SNP_1418_A_9404407	NC_021160.1	Ca_Kabuli_Chr01	9404407	AA	GG	GG	URR	101495040	cytochrome c oxidase subunit 5b-2, mitochondrial-like
SNP_1419_A_9456458	NC_021160.1	Ca_Kabuli_Chr01	9456458	GG	AA	AA	URR	101496896	uncharacterized LOC101496896
SNP_1420_A_9526474	NC_021160.1	Ca_Kabuli_Chr01	9526474	TT	GG	GG	INTERGENIC		
SNP_1421_A_9541936	NC_021160.1	Ca_Kabuli_Chr01	9541936	CC	TT	TT	INTERGENIC		
SNP_1422_A_9562882	NC_021160.1	Ca_Kabuli_Chr01	9562882	CC	AA	AA	INTERGENIC		
SNP_1423_A_9601892	NC_021160.1	Ca_Kabuli_Chr01	9601892	GG	AA	AA	INTRON	101502055	coatamer subunit beta'-2-like
SNP_1424_A_9643590	NC_021160.1	Ca_Kabuli_Chr01	9643590	GG	AA	AA	INTERGENIC		
SNP_1425_A_9665632	NC_021160.1	Ca_Kabuli_Chr01	9665632	GG	AA	AA	URR	101504534	pentatricopeptide repeat-containing protein At3g16010
SNP_1426_A_9776580	NC_021160.1	Ca_Kabuli_Chr01	9776580	CC	TT	TT	INTERGENIC		
SNP_1427_A_9807459	NC_021160.1	Ca_Kabuli_Chr01	9807459	AA	TT	TT	INTRON	101513527	golgin candidate 5
SNP_1428_A_9807461	NC_021160.1	Ca_Kabuli_Chr01	9807461	AA	TT	TT	INTRON	101513527	golgin candidate 5
SNP_1430_A_9872004	NC_021160.1	Ca_Kabuli_Chr01	9872004	GG	TT	TT	DRR	101488669	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_1431_A_9872258	NC_021160.1	Ca_Kabuli_Chr01	9872258	CC	TT	TT	DRR	101488669	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_1432_A_9906333	NC_021160.1	Ca_Kabuli_Chr01	9906333	GG	AA	AA	INTERGENIC		
SNP_1434_A_10044738	NC_021160.1	Ca_Kabuli_Chr01	10044738	TT	GG	GG	DRR	101496461	clavamate synthase-like protein At3g21360
SNP_1437_A_10072267	NC_021160.1	Ca_Kabuli_Chr01	10072267	GG	AA	AA	INTERGENIC		

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SNP_1438_A_10086414	NC_021160.1	Ca_Kabuli_Chr01	10086414	TT	CC	CC	INTRON	101497112	inorganic pyrophosphatase 2-like
SNP_1439_A_10099221	NC_021160.1	Ca_Kabuli_Chr01	10099221	TT	GG	GG	INTERGENIC		
SNP_1440_A_10099223	NC_021160.1	Ca_Kabuli_Chr01	10099223	TT	GG	GG	INTERGENIC		
SNP_1441_A_10102140	NC_021160.1	Ca_Kabuli_Chr01	10102140	AA	GG	GG	INTERGENIC		
SNP_1442_A_10116310	NC_021160.1	Ca_Kabuli_Chr01	10116310	AA	GG	GG	URR	101497780	60S ribosomal protein L27-like
SNP_1443_A_10116349	NC_021160.1	Ca_Kabuli_Chr01	10116349	TT	CC	CC	URR	101497780	60S ribosomal protein L27-like
SNP_1444_A_10116353	NC_021160.1	Ca_Kabuli_Chr01	10116353	AA	GG	GG	URR	101497780	60S ribosomal protein L27-like
SNP_1445_A_10203903	NC_021160.1	Ca_Kabuli_Chr01	10203903	CC	TT	TT	INTERGENIC		
SNP_1446_A_10236797	NC_021160.1	Ca_Kabuli_Chr01	10236797	TT	CC	CC	URR	101497451	inorganic pyrophosphatase 2-like
SNP_1447_A_10236814	NC_021160.1	Ca_Kabuli_Chr01	10236814	AA	CC	CC	URR	101497451	inorganic pyrophosphatase 2-like
SNP_1448_A_10236815	NC_021160.1	Ca_Kabuli_Chr01	10236815	AA	GG	GG	URR	101497451	inorganic pyrophosphatase 2-like
SNP_1449_A_10285446	NC_021160.1	Ca_Kabuli_Chr01	10285446	CC	TT	TT	URR	101506781	phospholipase D epsilon
SNP_1451_A_10368207	NC_021160.1	Ca_Kabuli_Chr01	10368207	AA	GG	GG	INTERGENIC		
SNP_1455_A_10502225	NC_021160.1	Ca_Kabuli_Chr01	10502225	CC	TT	TT	INTERGENIC		
SNP_1457_A_10572591	NC_021160.1	Ca_Kabuli_Chr01	10572591	GG	AA	AA	INTERGENIC		
SNP_1458_A_10577389	NC_021160.1	Ca_Kabuli_Chr01	10577389	TT	CC	CC	INTRON	101493247	polyadenylate-binding protein-interacting protein 3-like
SNP_1459_A_10577503	NC_021160.1	Ca_Kabuli_Chr01	10577503	CC	GG	GG	INTRON	101493247	polyadenylate-binding protein-interacting protein 3-like
SNP_1460_A_10626385	NC_021160.1	Ca_Kabuli_Chr01	10626385	AA	GG	GG	INTERGENIC		
SNP_1461_A_10829197	NC_021160.1	Ca_Kabuli_Chr01	10829197	AA	GG	GG	INTERGENIC		
SNP_1462_A_10829213	NC_021160.1	Ca_Kabuli_Chr01	10829213	TT	CC	CC	INTERGENIC		
SNP_1463_A_10850187	NC_021160.1	Ca_Kabuli_Chr01	10850187	GG	AA	AA	INTERGENIC		
SNP_1464_A_10850974	NC_021160.1	Ca_Kabuli_Chr01	10850974	AA	GG	GG	INTERGENIC		

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SNP_1465_A_10855340	NC_021160.1	Ca_Kabuli_Chr01	10855340	TT	AA	AA	INTRON	101513835	beta-glucosidase 12-like
SNP_1466_A_10856482	NC_021160.1	Ca_Kabuli_Chr01	10856482	TT	CC	CC	INTRON	101513835	beta-glucosidase 12-like
SNP_1467_A_10856490	NC_021160.1	Ca_Kabuli_Chr01	10856490	AA	GG	GG	INTRON	101513835	beta-glucosidase 12-like
SNP_1468_A_10856593	NC_021160.1	Ca_Kabuli_Chr01	10856593	AA	GG	GG	INTRON	101513835	beta-glucosidase 12-like
SNP_1469_A_10856616	NC_021160.1	Ca_Kabuli_Chr01	10856616	TT	GG	GG	INTRON	101513835	beta-glucosidase 12-like
SNP_1470_A_10916013	NC_021160.1	Ca_Kabuli_Chr01	10916013	TT	CC	CC	URR	101501944	G2/mitotic-specific cyclin-1-like
SNP_1471_A_10916473	NC_021160.1	Ca_Kabuli_Chr01	10916473	TT	CC	CC	URR	101501944	G2/mitotic-specific cyclin-1-like
SNP_1472_A_10916477	NC_021160.1	Ca_Kabuli_Chr01	10916477	TT	AA	AA	URR	101501944	G2/mitotic-specific cyclin-1-like
SNP_1473_A_10936167	NC_021160.1	Ca_Kabuli_Chr01	10936167	AA	TT	TT	INTERGENIC		
SNP_1475_A_10947396	NC_021160.1	Ca_Kabuli_Chr01	10947396	CC	TT	TT	INTERGENIC		
SNP_1476_A_10947414	NC_021160.1	Ca_Kabuli_Chr01	10947414	AA	GG	GG	INTERGENIC		
SNP_1477_A_10986668	NC_021160.1	Ca_Kabuli_Chr01	10986668	TT	CC	CC	INTERGENIC		
SNP_1478_A_10995244	NC_021160.1	Ca_Kabuli_Chr01	10995244	TT	CC	CC	URR	101490641	protein FAR1-RELATED SEQUENCE 4
SNP_1479_A_11023123	NC_021160.1	Ca_Kabuli_Chr01	11023123	CC	TT	TT	INTERGENIC		
SNP_1481_A_11112572	NC_021160.1	Ca_Kabuli_Chr01	11112572	AA	CC	CC	URR	101494934	Unknown function
SNP_1483_A_11148321	NC_021160.1	Ca_Kabuli_Chr01	11148321	GG	AA	AA	INTERGENIC		
SNP_1485_A_11169380	NC_021160.1	Ca_Kabuli_Chr01	11169380	CC	TT	TT	INTERGENIC		
SNP_1487_A_11176118	NC_021160.1	Ca_Kabuli_Chr01	11176118	CC	AA	AA	URR	101498980	uncharacterized LOC101498980
SNP_1489_A_11217866	NC_021160.1	Ca_Kabuli_Chr01	11217866	TT	GG	GG	INTERGENIC		
SNP_1490_A_11218110	NC_021160.1	Ca_Kabuli_Chr01	11218110	CC	TT	TT	INTERGENIC		
SNP_1491_A_11218149	NC_021160.1	Ca_Kabuli_Chr01	11218149	TT	CC	CC	INTERGENIC		
SNP_1493_A_11340986	NC_021160.1	Ca_Kabuli_Chr01	11340986	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1494_A_11341016	NC_021160.1	Ca_Kabuli_Chr01	11341016	CC	TT	TT	INTERGENIC		
SNP_1495_A_11341253	NC_021160.1	Ca_Kabuli_Chr01	11341253	GG	AA	AA	INTERGENIC		
SNP_1496_A_11341264	NC_021160.1	Ca_Kabuli_Chr01	11341264	TT	AA	AA	INTERGENIC		
SNP_1497_A_11341309	NC_021160.1	Ca_Kabuli_Chr01	11341309	GG	TT	TT	INTERGENIC		
SNP_1498_A_11341341	NC_021160.1	Ca_Kabuli_Chr01	11341341	GG	AA	AA	INTERGENIC		
SNP_1499_A_11383103	NC_021160.1	Ca_Kabuli_Chr01	11383103	AA	GG	GG	INTERGENIC		
SNP_1500_A_11420695	NC_021160.1	Ca_Kabuli_Chr01	11420695	AA	GG	GG	DRR	101510629	putative E3 ubiquitin-protein ligase XBAT31
SNP_1501_A_11440130	NC_021160.1	Ca_Kabuli_Chr01	11440130	AA	TT	TT	INTERGENIC		
SNP_1503_A_11466924	NC_021160.1	Ca_Kabuli_Chr01	11466924	TT	CC	CC	INTRON	101504850	uncharacterized LOC101504850
SNP_1504_A_11735094	NC_021160.1	Ca_Kabuli_Chr01	11735094	GG	AA	AA	INTERGENIC		
SNP_1505_A_11735134	NC_021160.1	Ca_Kabuli_Chr01	11735134	GG	AA	AA	INTERGENIC		
SNP_1506_A_11738501	NC_021160.1	Ca_Kabuli_Chr01	11738501	TT	GG	GG	INTERGENIC		
SNP_1509_A_11978359	NC_021160.1	Ca_Kabuli_Chr01	11978359	TT	CC	CC	INTERGENIC		
SNP_1510_A_11978387	NC_021160.1	Ca_Kabuli_Chr01	11978387	AA	CC	CC	INTERGENIC		
SNP_1511_A_12004345	NC_021160.1	Ca_Kabuli_Chr01	12004345	CC	TT	TT	INTRON	101507124	Unknown function
SNP_1512_A_12004822	NC_021160.1	Ca_Kabuli_Chr01	12004822	GG	AA	AA	INTRON	101507124	Unknown function
SNP_1513_A_12072453	NC_021160.1	Ca_Kabuli_Chr01	12072453	GG	AA	AA	INTERGENIC		
SNP_1514_A_12172747	NC_021160.1	Ca_Kabuli_Chr01	12172747	TT	CC	CC	INTRON	101510630	homeobox-leucine zipper protein REVOLUTA
SNP_1516_A_12307202	NC_021160.1	Ca_Kabuli_Chr01	12307202	CC	TT	TT	URR	101490972	fasciclin-like arabinogalactan protein 12
SNP_1517_A_12360095	NC_021160.1	Ca_Kabuli_Chr01	12360095	GG	AA	AA	INTERGENIC		
SNP_1518_A_12372536	NC_021160.1	Ca_Kabuli_Chr01	12372536	TT	CC	CC	INTERGENIC		
SNP_1519_A_12409024	NC_021160.1	Ca_Kabuli_Chr01	12409024	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1521_A_12422536	NC_021160.1	Ca_Kabuli_Chr01	12422536	TT	CC	CC	INTERGENIC		
SNP_1522_A_12438262	NC_021160.1	Ca_Kabuli_Chr01	12438262	CC	TT	TT	INTERGENIC		
SNP_1523_A_12464321	NC_021160.1	Ca_Kabuli_Chr01	12464321	TT	CC	CC	URR	101496025	protein BCCIP homolog
SNP_1524_A_12465301	NC_021160.1	Ca_Kabuli_Chr01	12465301	CC	TT	TT	URR	101496025	protein BCCIP homolog
SNP_1525_A_12466673	NC_021160.1	Ca_Kabuli_Chr01	12466673	GG	TT	TT	INTERGENIC		
SNP_1526_A_12506298	NC_021160.1	Ca_Kabuli_Chr01	12506298	CC	TT	TT	STOP_GAINED	101509015	Unknown function
SNP_1527_A_12531507	NC_021160.1	Ca_Kabuli_Chr01	12531507	AA	TT	TT	INTRON	101497653	ethylene-responsive transcription factor RAP2-7-like
SNP_1529_A_12552458	NC_021160.1	Ca_Kabuli_Chr01	12552458	AA	GG	GG	INTERGENIC		
SNP_1530_A_12580161	NC_021160.1	Ca_Kabuli_Chr01	12580161	AA	GG	GG	INTERGENIC		
SNP_1532_A_12616999	NC_021160.1	Ca_Kabuli_Chr01	12616999	GG	TT	TT	INTERGENIC		
SNP_1533_A_12645042	NC_021160.1	Ca_Kabuli_Chr01	12645042	CC	TT	TT	INTERGENIC		
SNP_1534_A_12645047	NC_021160.1	Ca_Kabuli_Chr01	12645047	AA	GG	GG	INTERGENIC		
SNP_1535_A_12650325	NC_021160.1	Ca_Kabuli_Chr01	12650325	AA	GG	GG	DRR	101509980	flagellar attachment zone protein 1
SNP_1537_A_12727661	NC_021160.1	Ca_Kabuli_Chr01	12727661	TT	CC	CC	INTERGENIC		
SNP_1538_A_12740700	NC_021160.1	Ca_Kabuli_Chr01	12740700	GG	AA	AA	URR	101510301	uncharacterized LOC101510301
SNP_1539_A_12767427	NC_021160.1	Ca_Kabuli_Chr01	12767427	GG	TT	TT	INTERGENIC		
SNP_1540_A_12767631	NC_021160.1	Ca_Kabuli_Chr01	12767631	TT	CC	CC	INTERGENIC		
SNP_1541_A_12767754	NC_021160.1	Ca_Kabuli_Chr01	12767754	TT	AA	AA	INTERGENIC		
SNP_1542_A_12769564	NC_021160.1	Ca_Kabuli_Chr01	12769564	CC	AA	AA	INTERGENIC		
SNP_1543_A_12773616	NC_021160.1	Ca_Kabuli_Chr01	12773616	TT	AA	AA	INTERGENIC		
SNP_1544_A_12783183	NC_021160.1	Ca_Kabuli_Chr01	12783183	CC	AA	AA	INTRON	101506032	transcription factor TCP4-like
SNP_1545_A_12791661	NC_021160.1	Ca_Kabuli_Chr01	12791661	AA	GG	GG	URR	101507221	RING-H2 finger protein ATL40-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_1546_A_12792034	NC_021160.1	Ca_Kabuli_Chr01	12792034	CC	TT	TT	INTERGENIC			
SNP_1547_A_12792039	NC_021160.1	Ca_Kabuli_Chr01	12792039	AA	TT	TT	INTERGENIC			
SNP_1548_A_12947096	NC_021160.1	Ca_Kabuli_Chr01	12947096	AA	GG	GG	INTERGENIC			
SNP_1549_A_12947368	NC_021160.1	Ca_Kabuli_Chr01	12947368	CC	TT	TT	INTERGENIC			
SNP_1550_A_12947398	NC_021160.1	Ca_Kabuli_Chr01	12947398	GG	AA	AA	INTERGENIC			
SNP_1551_A_12947448	NC_021160.1	Ca_Kabuli_Chr01	12947448	CC	TT	TT	INTERGENIC			
SNP_1552_A_12947468	NC_021160.1	Ca_Kabuli_Chr01	12947468	CC	TT	TT	INTERGENIC			
SNP_1553_A_12947486	NC_021160.1	Ca_Kabuli_Chr01	12947486	AA	GG	GG	INTERGENIC			
SNP_1554_A_12947534	NC_021160.1	Ca_Kabuli_Chr01	12947534	CC	TT	TT	INTERGENIC			
SNP_1555_A_12947539	NC_021160.1	Ca_Kabuli_Chr01	12947539	GG	AA	AA	INTERGENIC			
SNP_1556_A_12947557	NC_021160.1	Ca_Kabuli_Chr01	12947557	AA	GG	GG	INTERGENIC			
SNP_1558_A_12947755	NC_021160.1	Ca_Kabuli_Chr01	12947755	TT	CC	CC	INTERGENIC			
SNP_1559_A_12947981	NC_021160.1	Ca_Kabuli_Chr01	12947981	AA	GG	GG	INTERGENIC			
SNP_1560_A_12948038	NC_021160.1	Ca_Kabuli_Chr01	12948038	TT	CC	CC	INTERGENIC			
SNP_1561_A_12955860	NC_021160.1	Ca_Kabuli_Chr01	12955860	AA	GG	GG	INTERGENIC			
SNP_1564_A_12956156	NC_021160.1	Ca_Kabuli_Chr01	12956156	CC	AA	AA	INTERGENIC			
SNP_1565_A_12956336	NC_021160.1	Ca_Kabuli_Chr01	12956336	GG	AA	AA	INTERGENIC			
SNP_1566_A_12956354	NC_021160.1	Ca_Kabuli_Chr01	12956354	AA	GG	GG	INTERGENIC			
SNP_1568_A_12956950	NC_021160.1	Ca_Kabuli_Chr01	12956950	CC	TT	TT	INTERGENIC			
SNP_1569_A_12979201	NC_021160.1	Ca_Kabuli_Chr01	12979201	CC	AA	AA	DRR	101489663	Unknown function	
SNP_1570_A_12979286	NC_021160.1	Ca_Kabuli_Chr01	12979286	CC	TT	TT	DRR	101489663	Unknown function	
SNP_1571_A_12979534	NC_021160.1	Ca_Kabuli_Chr01	12979534	TT	CC	CC	DRR	101489663	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_1572_A_12984099	NC_021160.1	Ca_Kabuli_Chr01	12984099	CC	TT	TT	INTERGENIC			
SNP_1573_A_12984100	NC_021160.1	Ca_Kabuli_Chr01	12984100	GG	AA	AA	INTERGENIC			
SNP_1574_A_12984194	NC_021160.1	Ca_Kabuli_Chr01	12984194	GG	AA	AA	INTERGENIC			
SNP_1575_A_12984258	NC_021160.1	Ca_Kabuli_Chr01	12984258	GG	AA	AA	INTERGENIC			
SNP_1576_A_12985914	NC_021160.1	Ca_Kabuli_Chr01	12985914	CC	TT	TT	INTERGENIC			
SNP_1578_A_12991478	NC_021160.1	Ca_Kabuli_Chr01	12991478	TT	AA	AA	INTERGENIC			
SNP_1579_A_13005732	NC_021160.1	Ca_Kabuli_Chr01	13005732	GG	AA	AA	INTERGENIC			
SNP_1580_A_13005847	NC_021160.1	Ca_Kabuli_Chr01	13005847	GG	AA	AA	INTERGENIC			
SNP_1582_A_13006291	NC_021160.1	Ca_Kabuli_Chr01	13006291	CC	TT	TT	INTERGENIC			
SNP_1583_A_13007082	NC_021160.1	Ca_Kabuli_Chr01	13007082	AA	GG	GG	INTERGENIC			
SNP_1584_A_13007215	NC_021160.1	Ca_Kabuli_Chr01	13007215	AA	GG	GG	INTERGENIC			
SNP_1585_A_13007244	NC_021160.1	Ca_Kabuli_Chr01	13007244	AA	GG	GG	INTERGENIC			
SNP_1586_A_13007294	NC_021160.1	Ca_Kabuli_Chr01	13007294	CC	GG	GG	INTERGENIC			
SNP_1587_A_13007347	NC_021160.1	Ca_Kabuli_Chr01	13007347	TT	AA	AA	INTERGENIC			
SNP_1588_A_13007352	NC_021160.1	Ca_Kabuli_Chr01	13007352	AA	GG	GG	INTERGENIC			
SNP_1589_A_13007480	NC_021160.1	Ca_Kabuli_Chr01	13007480	GG	AA	AA	INTERGENIC			
SNP_1591_A_13007533	NC_021160.1	Ca_Kabuli_Chr01	13007533	GG	AA	AA	INTERGENIC			
SNP_1592_A_13007590	NC_021160.1	Ca_Kabuli_Chr01	13007590	CC	AA	AA	INTERGENIC			
SNP_1593_A_13007861	NC_021160.1	Ca_Kabuli_Chr01	13007861	TT	GG	GG	INTERGENIC			
SNP_1594_A_13008096	NC_021160.1	Ca_Kabuli_Chr01	13008096	CC	TT	TT	INTERGENIC			
SNP_1595_A_13008103	NC_021160.1	Ca_Kabuli_Chr01	13008103	CC	TT	TT	INTERGENIC			
SNP_1596_A_13008184	NC_021160.1	Ca_Kabuli_Chr01	13008184	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1597_A_13008220	NC_021160.1	Ca_Kabuli_Chr01	13008220	CC	TT	TT	INTERGENIC		
SNP_1598_A_13008592	NC_021160.1	Ca_Kabuli_Chr01	13008592	CC	AA	AA	INTERGENIC		
SNP_1599_A_13008669	NC_021160.1	Ca_Kabuli_Chr01	13008669	TT	CC	CC	INTERGENIC		
SNP_1600_A_13008740	NC_021160.1	Ca_Kabuli_Chr01	13008740	CC	GG	GG	INTERGENIC		
SNP_1601_A_13008816	NC_021160.1	Ca_Kabuli_Chr01	13008816	TT	CC	CC	INTERGENIC		
SNP_1602_A_13009516	NC_021160.1	Ca_Kabuli_Chr01	13009516	AA	GG	GG	INTERGENIC		
SNP_1603_A_13009592	NC_021160.1	Ca_Kabuli_Chr01	13009592	GG	AA	AA	INTERGENIC		
SNP_1604_A_13012551	NC_021160.1	Ca_Kabuli_Chr01	13012551	CC	TT	TT	INTERGENIC		
SNP_1605_A_13012574	NC_021160.1	Ca_Kabuli_Chr01	13012574	TT	CC	CC	INTERGENIC		
SNP_1606_A_13012935	NC_021160.1	Ca_Kabuli_Chr01	13012935	AA	TT	TT	INTERGENIC		
SNP_1607_A_13014342	NC_021160.1	Ca_Kabuli_Chr01	13014342	AA	TT	TT	INTERGENIC		
SNP_1608_A_13014360	NC_021160.1	Ca_Kabuli_Chr01	13014360	AA	GG	GG	INTERGENIC		
SNP_1609_A_13014373	NC_021160.1	Ca_Kabuli_Chr01	13014373	TT	CC	CC	INTERGENIC		
SNP_1610_A_13014374	NC_021160.1	Ca_Kabuli_Chr01	13014374	TT	GG	GG	INTERGENIC		
SNP_1611_A_13103791	NC_021160.1	Ca_Kabuli_Chr01	13103791	AA	GG	GG	URR	101410605	transfer RNA glycine (anticodon GCC)
SNP_1614_A_13135717	NC_021160.1	Ca_Kabuli_Chr01	13135717	TT	CC	CC	INTERGENIC		
SNP_1616_A_13135724	NC_021160.1	Ca_Kabuli_Chr01	13135724	AA	CC	CC	INTERGENIC		
SNP_1617_A_13135725	NC_021160.1	Ca_Kabuli_Chr01	13135725	TT	AA	AA	INTERGENIC		
SNP_1618_A_13303775	NC_021160.1	Ca_Kabuli_Chr01	13303775	CC	TT	TT	URR	101500038	uncharacterized LOC101500038
SNP_1619_A_13303779	NC_021160.1	Ca_Kabuli_Chr01	13303779	TT	AA	AA	URR	101500038	uncharacterized LOC101500038
SNP_1620_A_13338812	NC_021160.1	Ca_Kabuli_Chr01	13338812	TT	AA	AA	INTERGENIC		
SNP_1621_A_13472034	NC_021160.1	Ca_Kabuli_Chr01	13472034	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1622_A_13532860	NC_021160.1	Ca_Kabuli_Chr01	13532860	CC	TT	TT	INTERGENIC		
SNP_1623_A_13547739	NC_021160.1	Ca_Kabuli_Chr01	13547739	AA	GG	GG	INTERGENIC		
SNP_1624_A_13548660	NC_021160.1	Ca_Kabuli_Chr01	13548660	CC	AA	AA	DRR	101512670	kinesin-like protein KIF19
SNP_1625_A_13548671	NC_021160.1	Ca_Kabuli_Chr01	13548671	GG	AA	AA	DRR	101512670	kinesin-like protein KIF19
SNP_1626_A_13548973	NC_021160.1	Ca_Kabuli_Chr01	13548973	AA	CC	CC	DRR	101512670	kinesin-like protein KIF19
SNP_1627_A_13549000	NC_021160.1	Ca_Kabuli_Chr01	13549000	AA	TT	TT	DRR	101512670	kinesin-like protein KIF19
SNP_1628_A_13570702	NC_021160.1	Ca_Kabuli_Chr01	13570702	TT	AA	AA	INTERGENIC		
SNP_1629_A_13571040	NC_021160.1	Ca_Kabuli_Chr01	13571040	AA	GG	GG	INTERGENIC		
SNP_1630_A_13661038	NC_021160.1	Ca_Kabuli_Chr01	13661038	TT	CC	CC	INTERGENIC		
SNP_1631_A_13661039	NC_021160.1	Ca_Kabuli_Chr01	13661039	TT	CC	CC	INTERGENIC		
SNP_1633_A_13661061	NC_021160.1	Ca_Kabuli_Chr01	13661061	TT	CC	CC	INTERGENIC		
SNP_1634_A_13671385	NC_021160.1	Ca_Kabuli_Chr01	13671385	CC	TT	TT	URR	101488349	fasciclin-like arabinogalactan protein 21
SNP_1635_A_13671762	NC_021160.1	Ca_Kabuli_Chr01	13671762	CC	AA	AA	URR	101488349	fasciclin-like arabinogalactan protein 21
SNP_1636_A_13671867	NC_021160.1	Ca_Kabuli_Chr01	13671867	GG	AA	AA	URR	101488349	fasciclin-like arabinogalactan protein 21
SNP_1637_A_13674032	NC_021160.1	Ca_Kabuli_Chr01	13674032	TT	AA	AA	INTERGENIC		
SNP_1639_A_13674433	NC_021160.1	Ca_Kabuli_Chr01	13674433	GG	AA	AA	INTERGENIC		
SNP_1640_A_13675523	NC_021160.1	Ca_Kabuli_Chr01	13675523	AA	GG	GG	INTERGENIC		
SNP_1641_A_13675950	NC_021160.1	Ca_Kabuli_Chr01	13675950	TT	AA	AA	INTERGENIC		
SNP_1642_A_13676158	NC_021160.1	Ca_Kabuli_Chr01	13676158	CC	TT	TT	INTERGENIC		
SNP_1644_A_13677284	NC_021160.1	Ca_Kabuli_Chr01	13677284	TT	AA	AA	INTERGENIC		
SNP_1645_A_13677583	NC_021160.1	Ca_Kabuli_Chr01	13677583	GG	AA	AA	INTERGENIC		
SNP_1647_A_13683240	NC_021160.1	Ca_Kabuli_Chr01	13683240	TT	CC	CC	URR	101488673	putative dehydration-responsive element-binding protein 2H

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1648_A_13683826	NC_021160.1	Ca_Kabuli_Chr01	13683826	CC	TT	TT	DRR	101489665	xyloglucan endotransglucosylase/hydrolase protein 9-like
SNP_1650_A_13686412	NC_021160.1	Ca_Kabuli_Chr01	13686412	TT	CC	CC	INTRON	101489665	xyloglucan endotransglucosylase/hydrolase protein 9-like
SNP_1651_A_13690437	NC_021160.1	Ca_Kabuli_Chr01	13690437	GG	AA	AA	INTERGENIC		
SNP_1653_A_13691347	NC_021160.1	Ca_Kabuli_Chr01	13691347	GG	AA	AA	INTERGENIC		
SNP_1655_A_13692774	NC_021160.1	Ca_Kabuli_Chr01	13692774	GG	AA	AA	INTERGENIC		
SNP_1656_A_13692843	NC_021160.1	Ca_Kabuli_Chr01	13692843	AA	GG	GG	INTERGENIC		
SNP_1657_A_13693320	NC_021160.1	Ca_Kabuli_Chr01	13693320	CC	TT	TT	INTERGENIC		
SNP_1658_A_13693323	NC_021160.1	Ca_Kabuli_Chr01	13693323	AA	GG	GG	INTERGENIC		
SNP_1659_A_13693339	NC_021160.1	Ca_Kabuli_Chr01	13693339	TT	AA	AA	INTERGENIC		
SNP_1661_A_13695729	NC_021160.1	Ca_Kabuli_Chr01	13695729	AA	TT	TT	INTERGENIC		
SNP_1663_A_13697332	NC_021160.1	Ca_Kabuli_Chr01	13697332	TT	CC	CC	INTERGENIC		
SNP_1664_A_13699617	NC_021160.1	Ca_Kabuli_Chr01	13699617	TT	AA	AA	INTRON	101489988	probable terpene synthase 11
SNP_1665_A_13704129	NC_021160.1	Ca_Kabuli_Chr01	13704129	AA	CC	CC	INTRON	101489988	probable terpene synthase 11
SNP_1666_A_13704568	NC_021160.1	Ca_Kabuli_Chr01	13704568	TT	CC	CC	INTRON	101489988	probable terpene synthase 11
SNP_1667_A_13704587	NC_021160.1	Ca_Kabuli_Chr01	13704587	AA	TT	TT	INTRON	101489988	probable terpene synthase 11
SNP_1668_A_13704631	NC_021160.1	Ca_Kabuli_Chr01	13704631	CC	TT	TT	INTRON	101489988	probable terpene synthase 11
SNP_1669_A_13745197	NC_021160.1	Ca_Kabuli_Chr01	13745197	CC	TT	TT	INTERGENIC		
SNP_1670_A_13960731	NC_021160.1	Ca_Kabuli_Chr01	13960731	GG	AA	AA	INTERGENIC		
SNP_1671_A_13960994	NC_021160.1	Ca_Kabuli_Chr01	13960994	GG	TT	TT	INTERGENIC		
SNP_1672_A_13961023	NC_021160.1	Ca_Kabuli_Chr01	13961023	GG	AA	AA	INTERGENIC		
SNP_1673_A_13961089	NC_021160.1	Ca_Kabuli_Chr01	13961089	AA	GG	GG	INTERGENIC		
SNP_1674_A_13966040	NC_021160.1	Ca_Kabuli_Chr01	13966040	AA	GG	GG	INTRON	101503002	RING-box protein 1a-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1675_A_13991104	NC_021160.1	Ca_Kabuli_Chr01	13991104	AA	GG	GG	NON_SYNONYMOUS_CODING	101504635	homeobox-leucine zipper protein HDG2
SNP_1676_A_14062041	NC_021160.1	Ca_Kabuli_Chr01	14062041	TT	CC	CC	INTERGENIC		
SNP_1677_A_14106609	NC_021160.1	Ca_Kabuli_Chr01	14106609	AA	TT	TT	INTERGENIC		
SNP_1678_A_14126072	NC_021160.1	Ca_Kabuli_Chr01	14126072	TT	CC	CC	DRR	101509447	2-alkenal reductase (NADP(+)-dependent)-like
SNP_1679_A_14207015	NC_021160.1	Ca_Kabuli_Chr01	14207015	AA	GG	GG	INTERGENIC		
SNP_1680_A_14207229	NC_021160.1	Ca_Kabuli_Chr01	14207229	AA	TT	TT	INTERGENIC		
SNP_1681_A_14207527	NC_021160.1	Ca_Kabuli_Chr01	14207527	GG	AA	AA	INTERGENIC		
SNP_1682_A_14209671	NC_021160.1	Ca_Kabuli_Chr01	14209671	AA	GG	GG	INTERGENIC		
SNP_1683_A_14209683	NC_021160.1	Ca_Kabuli_Chr01	14209683	TT	AA	AA	INTERGENIC		
SNP_1684_A_14209762	NC_021160.1	Ca_Kabuli_Chr01	14209762	TT	GG	GG	INTERGENIC		
SNP_1685_A_14209764	NC_021160.1	Ca_Kabuli_Chr01	14209764	GG	AA	AA	INTERGENIC		
SNP_1686_A_14209774	NC_021160.1	Ca_Kabuli_Chr01	14209774	GG	AA	AA	INTERGENIC		
SNP_1687_A_14209786	NC_021160.1	Ca_Kabuli_Chr01	14209786	AA	GG	GG	INTERGENIC		
SNP_1688_A_14209815	NC_021160.1	Ca_Kabuli_Chr01	14209815	AA	GG	GG	INTERGENIC		
SNP_1689_A_14209821	NC_021160.1	Ca_Kabuli_Chr01	14209821	CC	GG	GG	INTERGENIC		
SNP_1690_A_14209825	NC_021160.1	Ca_Kabuli_Chr01	14209825	TT	GG	GG	INTERGENIC		
SNP_1691_A_14209903	NC_021160.1	Ca_Kabuli_Chr01	14209903	AA	GG	GG	INTERGENIC		
SNP_1692_A_14209905	NC_021160.1	Ca_Kabuli_Chr01	14209905	GG	TT	TT	INTERGENIC		
SNP_1693_A_14209940	NC_021160.1	Ca_Kabuli_Chr01	14209940	AA	TT	TT	INTERGENIC		
SNP_1694_A_14209943	NC_021160.1	Ca_Kabuli_Chr01	14209943	TT	AA	AA	INTERGENIC		
SNP_1695_A_14210042	NC_021160.1	Ca_Kabuli_Chr01	14210042	AA	CC	CC	INTERGENIC		
SNP_1696_A_14210121	NC_021160.1	Ca_Kabuli_Chr01	14210121	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1697_A_14210192	NC_021160.1	Ca_Kabuli_Chr01	14210192	AA	CC	CC	INTERGENIC		
SNP_1698_A_14210194	NC_021160.1	Ca_Kabuli_Chr01	14210194	CC	TT	TT	INTERGENIC		
SNP_1699_A_14210195	NC_021160.1	Ca_Kabuli_Chr01	14210195	AA	GG	GG	INTERGENIC		
SNP_1700_A_14210197	NC_021160.1	Ca_Kabuli_Chr01	14210197	AA	GG	GG	INTERGENIC		
SNP_1701_A_14210206	NC_021160.1	Ca_Kabuli_Chr01	14210206	GG	AA	AA	INTERGENIC		
SNP_1702_A_14210210	NC_021160.1	Ca_Kabuli_Chr01	14210210	CC	GG	GG	INTERGENIC		
SNP_1703_A_14210278	NC_021160.1	Ca_Kabuli_Chr01	14210278	CC	TT	TT	INTERGENIC		
SNP_1704_A_14211713	NC_021160.1	Ca_Kabuli_Chr01	14211713	CC	TT	TT	INTERGENIC		
SNP_1705_A_14279875	NC_021160.1	Ca_Kabuli_Chr01	14279875	GG	TT	TT	INTRON	101514721	phragmoplast orienting kinesin 2
SNP_1706_A_14339192	NC_021160.1	Ca_Kabuli_Chr01	14339192	TT	GG	GG	INTERGENIC		
SNP_1707_A_14382276	NC_021160.1	Ca_Kabuli_Chr01	14382276	GG	TT	TT	INTERGENIC		
SNP_1708_A_14382327	NC_021160.1	Ca_Kabuli_Chr01	14382327	GG	AA	AA	INTERGENIC		
SNP_1709_A_14382367	NC_021160.1	Ca_Kabuli_Chr01	14382367	TT	CC	CC	INTERGENIC		
SNP_1710_A_14382370	NC_021160.1	Ca_Kabuli_Chr01	14382370	TT	CC	CC	INTERGENIC		
SNP_1711_A_14382402	NC_021160.1	Ca_Kabuli_Chr01	14382402	CC	TT	TT	INTERGENIC		
SNP_1712_A_14382606	NC_021160.1	Ca_Kabuli_Chr01	14382606	GG	AA	AA	INTERGENIC		
SNP_1713_A_14382659	NC_021160.1	Ca_Kabuli_Chr01	14382659	CC	TT	TT	INTERGENIC		
SNP_1717_A_14797462	NC_021160.1	Ca_Kabuli_Chr01	14797462	CC	TT	TT	INTERGENIC		
SNP_1718_A_14842803	NC_021160.1	Ca_Kabuli_Chr01	14842803	AA	CC	CC	INTERGENIC		
SNP_1719_A_14843027	NC_021160.1	Ca_Kabuli_Chr01	14843027	TT	AA	AA	INTERGENIC		
SNP_1720_A_14891375	NC_021160.1	Ca_Kabuli_Chr01	14891375	TT	GG	GG	INTERGENIC		
SNP_1722_A_14991023	NC_021160.1	Ca_Kabuli_Chr01	14991023	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1723_A_14995683	NC_021160.1	Ca_Kabuli_Chr01	14995683	TT	GG	GG	INTERGENIC		
SNP_1725_A_14996172	NC_021160.1	Ca_Kabuli_Chr01	14996172	GG	TT	TT	INTERGENIC		
SNP_1726_A_15065805	NC_021160.1	Ca_Kabuli_Chr01	15065805	AA	TT	TT	INTRON	101488464	protein TIC 100
SNP_1727_A_15065815	NC_021160.1	Ca_Kabuli_Chr01	15065815	CC	TT	TT	INTRON	101488464	protein TIC 100
SNP_1728_A_15065859	NC_021160.1	Ca_Kabuli_Chr01	15065859	TT	AA	AA	INTRON	101488464	protein TIC 100
SNP_1729_A_15065889	NC_021160.1	Ca_Kabuli_Chr01	15065889	CC	TT	TT	INTRON	101488464	protein TIC 100
SNP_1730_A_15065907	NC_021160.1	Ca_Kabuli_Chr01	15065907	AA	TT	TT	INTRON	101488464	protein TIC 100
SNP_1731_A_15066012	NC_021160.1	Ca_Kabuli_Chr01	15066012	AA	CC	CC	INTRON	101488464	protein TIC 100
SNP_1732_A_15134847	NC_021160.1	Ca_Kabuli_Chr01	15134847	CC	AA	AA	URR	101490528	putative SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3-like 2
SNP_1733_A_15134848	NC_021160.1	Ca_Kabuli_Chr01	15134848	AA	GG	GG	URR	101490528	putative SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3-like 2
SNP_1734_A_15245564	NC_021160.1	Ca_Kabuli_Chr01	15245564	TT	CC	CC	INTERGENIC		
SNP_1735_A_15245605	NC_021160.1	Ca_Kabuli_Chr01	15245605	CC	AA	AA	INTERGENIC		
SNP_1736_A_15247299	NC_021160.1	Ca_Kabuli_Chr01	15247299	TT	CC	CC	INTERGENIC		
SNP_1737_A_15247304	NC_021160.1	Ca_Kabuli_Chr01	15247304	AA	GG	GG	INTERGENIC		
SNP_1738_A_15247352	NC_021160.1	Ca_Kabuli_Chr01	15247352	AA	CC	CC	INTERGENIC		
SNP_1739_A_15247385	NC_021160.1	Ca_Kabuli_Chr01	15247385	GG	AA	AA	INTERGENIC		
SNP_1740_A_15247732	NC_021160.1	Ca_Kabuli_Chr01	15247732	AA	TT	TT	INTERGENIC		
SNP_1741_A_15247807	NC_021160.1	Ca_Kabuli_Chr01	15247807	TT	CC	CC	INTERGENIC		
SNP_1742_A_15247820	NC_021160.1	Ca_Kabuli_Chr01	15247820	GG	AA	AA	INTERGENIC		
SNP_1743_A_15251856	NC_021160.1	Ca_Kabuli_Chr01	15251856	TT	CC	CC	INTERGENIC		
SNP_1744_A_15277853	NC_021160.1	Ca_Kabuli_Chr01	15277853	AA	TT	TT	INTERGENIC		
SNP_1746_A_15449971	NC_021160.1	Ca_Kabuli_Chr01	15449971	AA	GG	GG	URR	101500041	putative two-component response regulator ARR21

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1747_A_15453335	NC_021160.1	Ca_Kabuli_Chr01	15453335	TT	AA	AA	INTERGENIC		
SNP_1748_A_15468523	NC_021160.1	Ca_Kabuli_Chr01	15468523	CC	TT	TT	INTERGENIC		
SNP_1749_A_15572467	NC_021160.1	Ca_Kabuli_Chr01	15572467	TT	CC	CC	INTERGENIC		
SNP_1750_A_15572488	NC_021160.1	Ca_Kabuli_Chr01	15572488	CC	TT	TT	INTERGENIC		
SNP_1752_A_15615459	NC_021160.1	Ca_Kabuli_Chr01	15615459	GG	AA	AA	URR	101504539	ras-related protein Rab11D
SNP_1753_A_15618937	NC_021160.1	Ca_Kabuli_Chr01	15618937	TT	AA	AA	INTERGENIC		
SNP_1754_A_15618946	NC_021160.1	Ca_Kabuli_Chr01	15618946	AA	TT	TT	INTERGENIC		
SNP_1755_A_15651074	NC_021160.1	Ca_Kabuli_Chr01	15651074	TT	CC	CC	URR	101505166	anthocyanidin 3-O-glucoside 2''-O-glucosyltransferase-like
SNP_1756_A_15667428	NC_021160.1	Ca_Kabuli_Chr01	15667428	TT	CC	CC	INTERGENIC		
SNP_1757_A_15667528	NC_021160.1	Ca_Kabuli_Chr01	15667528	AA	CC	CC	INTERGENIC		
SNP_1758_A_15667544	NC_021160.1	Ca_Kabuli_Chr01	15667544	AA	GG	GG	INTERGENIC		
SNP_1759_A_15667668	NC_021160.1	Ca_Kabuli_Chr01	15667668	TT	GG	GG	INTERGENIC		
SNP_1760_A_15672190	NC_021160.1	Ca_Kabuli_Chr01	15672190	TT	GG	GG	URR	101505816	anthocyanidin 3-O-glucoside 2''-O-glucosyltransferase-like
SNP_1761_A_15697413	NC_021160.1	Ca_Kabuli_Chr01	15697413	AA	TT	TT	DRR	101506461	anthocyanidin 3-O-glucoside 2''-O-glucosyltransferase
SNP_1762_A_15700246	NC_021160.1	Ca_Kabuli_Chr01	15700246	TT	CC	CC	URR	101506461	anthocyanidin 3-O-glucoside 2''-O-glucosyltransferase
SNP_1763_A_15716165	NC_021160.1	Ca_Kabuli_Chr01	15716165	AA	CC	CC	INTERGENIC		
SNP_1764_A_15716166	NC_021160.1	Ca_Kabuli_Chr01	15716166	TT	CC	CC	INTERGENIC		
SNP_1766_A_15821184	NC_021160.1	Ca_Kabuli_Chr01	15821184	CC	TT	TT	INTERGENIC		
SNP_1767_A_15821213	NC_021160.1	Ca_Kabuli_Chr01	15821213	TT	CC	CC	INTERGENIC		
SNP_1769_A_15848457	NC_021160.1	Ca_Kabuli_Chr01	15848457	TT	CC	CC	INTERGENIC		
SNP_1770_A_15848552	NC_021160.1	Ca_Kabuli_Chr01	15848552	AA	GG	GG	INTERGENIC		
SNP_1772_A_15864552	NC_021160.1	Ca_Kabuli_Chr01	15864552	TT	CC	CC	INTRON	101510845	gibberellin 2-beta-dioxygenase 8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1773_A_15871782	NC_021160.1	Ca_Kabuli_Chr01	15871782	TT	GG	GG	INTERGENIC		
SNP_1774_A_15876582	NC_021160.1	Ca_Kabuli_Chr01	15876582	TT	AA	AA	INTERGENIC		
SNP_1775_A_15897879	NC_021160.1	Ca_Kabuli_Chr01	15897879	GG	AA	AA	INTERGENIC		
SNP_1776_A_15929229	NC_021160.1	Ca_Kabuli_Chr01	15929229	AA	GG	GG	INTERGENIC		
SNP_1777_A_15963327	NC_021160.1	Ca_Kabuli_Chr01	15963327	CC	TT	TT	DRR	101514826	transcription factor ILR3-like
SNP_1778_A_16044834	NC_021160.1	Ca_Kabuli_Chr01	16044834	AA	CC	CC	URR	101490852	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At5g15730
SNP_1780_A_16085438	NC_021160.1	Ca_Kabuli_Chr01	16085438	TT	GG	GG	INTERGENIC		
SNP_1781_A_16092575	NC_021160.1	Ca_Kabuli_Chr01	16092575	AA	GG	GG	INTERGENIC		
SNP_1782_A_16092581	NC_021160.1	Ca_Kabuli_Chr01	16092581	GG	AA	AA	INTERGENIC		
SNP_1783_A_16092595	NC_021160.1	Ca_Kabuli_Chr01	16092595	CC	AA	AA	INTERGENIC		
SNP_1784_A_16092638	NC_021160.1	Ca_Kabuli_Chr01	16092638	GG	AA	AA	INTERGENIC		
SNP_1785_A_16092672	NC_021160.1	Ca_Kabuli_Chr01	16092672	CC	TT	TT	INTERGENIC		
SNP_1786_A_16092679	NC_021160.1	Ca_Kabuli_Chr01	16092679	GG	AA	AA	INTERGENIC		
SNP_1788_A_16097168	NC_021160.1	Ca_Kabuli_Chr01	16097168	CC	AA	AA	INTERGENIC		
SNP_1789_A_16105536	NC_021160.1	Ca_Kabuli_Chr01	16105536	AA	GG	GG	INTERGENIC		
SNP_1790_A_16105861	NC_021160.1	Ca_Kabuli_Chr01	16105861	CC	GG	GG	INTERGENIC		
SNP_1791_A_16106056	NC_021160.1	Ca_Kabuli_Chr01	16106056	TT	CC	CC	INTERGENIC		
SNP_1792_A_16107649	NC_021160.1	Ca_Kabuli_Chr01	16107649	AA	TT	TT	INTERGENIC		
SNP_1793_A_16111152	NC_021160.1	Ca_Kabuli_Chr01	16111152	CC	TT	TT	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1794_A_16111167	NC_021160.1	Ca_Kabuli_Chr01	16111167	AA	GG	GG	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1795_A_16111212	NC_021160.1	Ca_Kabuli_Chr01	16111212	AA	CC	CC	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1796_A_16111352	NC_021160.1	Ca_Kabuli_Chr01	16111352	TT	GG	GG	INTRON	101492466	organic cation/carnitine transporter 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1797_A_16111358	NC_021160.1	Ca_Kabuli_Chr01	16111358	TT	AA	AA	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1798_A_16111907	NC_021160.1	Ca_Kabuli_Chr01	16111907	AA	GG	GG	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1799_A_16112871	NC_021160.1	Ca_Kabuli_Chr01	16112871	GG	CC	CC	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1800_A_16113229	NC_021160.1	Ca_Kabuli_Chr01	16113229	TT	AA	AA	INTRON	101492466	organic cation/carnitine transporter 4
SNP_1801_A_16116268	NC_021160.1	Ca_Kabuli_Chr01	16116268	GG	CC	CC	URR	101492466	organic cation/carnitine transporter 4
SNP_1802_A_16116422	NC_021160.1	Ca_Kabuli_Chr01	16116422	GG	AA	AA	URR	101492466	organic cation/carnitine transporter 4
SNP_1804_A_16116445	NC_021160.1	Ca_Kabuli_Chr01	16116445	TT	CC	CC	URR	101492466	organic cation/carnitine transporter 4
SNP_1805_A_16118204	NC_021160.1	Ca_Kabuli_Chr01	16118204	CC	AA	AA	INTERGENIC		
SNP_1806_A_16154431	NC_021160.1	Ca_Kabuli_Chr01	16154431	AA	TT	TT	INTERGENIC		
SNP_1807_A_16154992	NC_021160.1	Ca_Kabuli_Chr01	16154992	TT	CC	CC	INTERGENIC		
SNP_1808_A_16155141	NC_021160.1	Ca_Kabuli_Chr01	16155141	AA	GG	GG	INTERGENIC		
SNP_1809_A_16155779	NC_021160.1	Ca_Kabuli_Chr01	16155779	AA	TT	TT	INTERGENIC		
SNP_1811_A_16155803	NC_021160.1	Ca_Kabuli_Chr01	16155803	GG	CC	CC	INTERGENIC		
SNP_1812_A_16156033	NC_021160.1	Ca_Kabuli_Chr01	16156033	AA	CC	CC	INTERGENIC		
SNP_1813_A_16156044	NC_021160.1	Ca_Kabuli_Chr01	16156044	GG	CC	CC	INTERGENIC		
SNP_1814_A_16157440	NC_021160.1	Ca_Kabuli_Chr01	16157440	TT	CC	CC	INTERGENIC		
SNP_1815_A_16157526	NC_021160.1	Ca_Kabuli_Chr01	16157526	AA	GG	GG	INTERGENIC		
SNP_1816_A_16157943	NC_021160.1	Ca_Kabuli_Chr01	16157943	TT	AA	AA	INTERGENIC		
SNP_1820_A_16162073	NC_021160.1	Ca_Kabuli_Chr01	16162073	TT	GG	GG	INTRON	101503246	organic cation/carnitine transporter 4-like
SNP_1821_A_16165159	NC_021160.1	Ca_Kabuli_Chr01	16165159	AA	CC	CC	URR	101503246	organic cation/carnitine transporter 4-like
SNP_1822_A_16166802	NC_021160.1	Ca_Kabuli_Chr01	16166802	TT	CC	CC	URR	101503246	organic cation/carnitine transporter 4-like
SNP_1823_A_16166835	NC_021160.1	Ca_Kabuli_Chr01	16166835	CC	TT	TT	URR	101503246	organic cation/carnitine transporter 4-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_1825_A_16167158	NC_021160.1	Ca_Kabuli_Chr01	16167158	TT	AA	AA	INTERGENIC			
SNP_1826_A_16171692	NC_021160.1	Ca_Kabuli_Chr01	16171692	AA	GG	GG	INTERGENIC			
SNP_1827_A_16173410	NC_021160.1	Ca_Kabuli_Chr01	16173410	AA	CC	CC	INTERGENIC			
SNP_1828_A_16173692	NC_021160.1	Ca_Kabuli_Chr01	16173692	CC	GG	GG	INTERGENIC			
SNP_1829_A_16173741	NC_021160.1	Ca_Kabuli_Chr01	16173741	AA	CC	CC	INTERGENIC			
SNP_1830_A_16174345	NC_021160.1	Ca_Kabuli_Chr01	16174345	GG	CC	CC	INTERGENIC			
SNP_1831_A_16174400	NC_021160.1	Ca_Kabuli_Chr01	16174400	TT	CC	CC	INTERGENIC			
SNP_1832_A_16174430	NC_021160.1	Ca_Kabuli_Chr01	16174430	GG	CC	CC	INTERGENIC			
SNP_1833_A_16174433	NC_021160.1	Ca_Kabuli_Chr01	16174433	CC	TT	TT	INTERGENIC			
SNP_1834_A_16177529	NC_021160.1	Ca_Kabuli_Chr01	16177529	TT	CC	CC	INTERGENIC			
SNP_1835_A_16177591	NC_021160.1	Ca_Kabuli_Chr01	16177591	GG	TT	TT	INTERGENIC			
SNP_1836_A_16177854	NC_021160.1	Ca_Kabuli_Chr01	16177854	CC	TT	TT	INTERGENIC			
SNP_1837_A_16177865	NC_021160.1	Ca_Kabuli_Chr01	16177865	CC	TT	TT	INTERGENIC			
SNP_1838_A_16177952	NC_021160.1	Ca_Kabuli_Chr01	16177952	TT	CC	CC	INTERGENIC			
SNP_1839_A_16177969	NC_021160.1	Ca_Kabuli_Chr01	16177969	AA	GG	GG	INTERGENIC			
SNP_1841_A_16187557	NC_021160.1	Ca_Kabuli_Chr01	16187557	CC	GG	GG	URR	101492800	indole-3-acetic acid-amido synthetase GH3.6-like	
SNP_1842_A_16189785	NC_021160.1	Ca_Kabuli_Chr01	16189785	GG	AA	AA	INTERGENIC			
SNP_1843_A_16190599	NC_021160.1	Ca_Kabuli_Chr01	16190599	CC	AA	AA	INTERGENIC			
SNP_1844_A_16190689	NC_021160.1	Ca_Kabuli_Chr01	16190689	TT	AA	AA	INTERGENIC			
SNP_1845_A_16190865	NC_021160.1	Ca_Kabuli_Chr01	16190865	TT	CC	CC	INTERGENIC			
SNP_1846_A_16193056	NC_021160.1	Ca_Kabuli_Chr01	16193056	AA	TT	TT	INTERGENIC			
SNP_1847_A_16193412	NC_021160.1	Ca_Kabuli_Chr01	16193412	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_1848_A_16197144	NC_021160.1	Ca_Kabuli_Chr01	16197144	TT	CC	CC	INTERGENIC			
SNP_1849_A_16197158	NC_021160.1	Ca_Kabuli_Chr01	16197158	GG	CC	CC	INTERGENIC			
SNP_1850_A_16197161	NC_021160.1	Ca_Kabuli_Chr01	16197161	TT	CC	CC	INTERGENIC			
SNP_1851_A_16197175	NC_021160.1	Ca_Kabuli_Chr01	16197175	AA	GG	GG	INTERGENIC			
SNP_1852_A_16197358	NC_021160.1	Ca_Kabuli_Chr01	16197358	TT	AA	AA	INTERGENIC			
SNP_1853_A_16197366	NC_021160.1	Ca_Kabuli_Chr01	16197366	TT	AA	AA	INTERGENIC			
SNP_1854_A_16197381	NC_021160.1	Ca_Kabuli_Chr01	16197381	GG	CC	CC	INTERGENIC			
SNP_1855_A_16197388	NC_021160.1	Ca_Kabuli_Chr01	16197388	CC	TT	TT	INTERGENIC			
SNP_1856_A_16197390	NC_021160.1	Ca_Kabuli_Chr01	16197390	CC	GG	GG	INTERGENIC			
SNP_1857_A_16197391	NC_021160.1	Ca_Kabuli_Chr01	16197391	AA	GG	GG	INTERGENIC			
SNP_1858_A_16197402	NC_021160.1	Ca_Kabuli_Chr01	16197402	TT	AA	AA	INTERGENIC			
SNP_1859_A_16197855	NC_021160.1	Ca_Kabuli_Chr01	16197855	CC	TT	TT	INTERGENIC			
SNP_1860_A_16199424	NC_021160.1	Ca_Kabuli_Chr01	16199424	GG	AA	AA	INTERGENIC			
SNP_1861_A_16199433	NC_021160.1	Ca_Kabuli_Chr01	16199433	CC	TT	TT	INTERGENIC			
SNP_1862_A_16199449	NC_021160.1	Ca_Kabuli_Chr01	16199449	AA	GG	GG	INTERGENIC			
SNP_1863_A_16202692	NC_021160.1	Ca_Kabuli_Chr01	16202692	AA	TT	TT	INTERGENIC			
SNP_1865_A_16203117	NC_021160.1	Ca_Kabuli_Chr01	16203117	AA	GG	GG	INTERGENIC			
SNP_1866_A_16203357	NC_021160.1	Ca_Kabuli_Chr01	16203357	AA	GG	GG	INTERGENIC			
SNP_1867_A_16203412	NC_021160.1	Ca_Kabuli_Chr01	16203412	AA	TT	TT	INTERGENIC			
SNP_1868_A_16203497	NC_021160.1	Ca_Kabuli_Chr01	16203497	TT	CC	CC	INTERGENIC			
SNP_1869_A_16205276	NC_021160.1	Ca_Kabuli_Chr01	16205276	CC	TT	TT	INTERGENIC			
SNP_1870_A_16205771	NC_021160.1	Ca_Kabuli_Chr01	16205771	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1871_A_16207472	NC_021160.1	Ca_Kabuli_Chr01	16207472	AA	GG	GG	INTERGENIC		
SNP_1872_A_16207474	NC_021160.1	Ca_Kabuli_Chr01	16207474	AA	GG	GG	INTERGENIC		
SNP_1873_A_16207536	NC_021160.1	Ca_Kabuli_Chr01	16207536	TT	GG	GG	INTERGENIC		
SNP_1874_A_16208424	NC_021160.1	Ca_Kabuli_Chr01	16208424	AA	CC	CC	INTERGENIC		
SNP_1875_A_16208440	NC_021160.1	Ca_Kabuli_Chr01	16208440	TT	AA	AA	INTERGENIC		
SNP_1876_A_16209230	NC_021160.1	Ca_Kabuli_Chr01	16209230	GG	AA	AA	INTERGENIC		
SNP_1877_A_16209237	NC_021160.1	Ca_Kabuli_Chr01	16209237	AA	GG	GG	INTERGENIC		
SNP_1878_A_16210756	NC_021160.1	Ca_Kabuli_Chr01	16210756	CC	TT	TT	DRR	101493128	transcription factor bHLH123-like
SNP_1879_A_16211644	NC_021160.1	Ca_Kabuli_Chr01	16211644	CC	TT	TT	SYNONYMOUS_CODING	101493128	transcription factor bHLH123-like
SNP_1880_A_16212996	NC_021160.1	Ca_Kabuli_Chr01	16212996	GG	AA	AA	INTRON	101493128	transcription factor bHLH123-like
SNP_1881_A_16214016	NC_021160.1	Ca_Kabuli_Chr01	16214016	TT	AA	AA	INTRON	101493128	transcription factor bHLH123-like
SNP_1882_A_16214030	NC_021160.1	Ca_Kabuli_Chr01	16214030	CC	TT	TT	INTRON	101493128	transcription factor bHLH123-like
SNP_1883_A_16219286	NC_021160.1	Ca_Kabuli_Chr01	16219286	TT	CC	CC	INTERGENIC		
SNP_1884_A_16254495	NC_021160.1	Ca_Kabuli_Chr01	16254495	GG	CC	CC	DRR	101503561	nuclear transcription factor Y subunit C-3-like
SNP_1885_A_16267416	NC_021160.1	Ca_Kabuli_Chr01	16267416	GG	AA	AA	INTERGENIC		
SNP_1886_A_16301159	NC_021160.1	Ca_Kabuli_Chr01	16301159	AA	GG	GG	INTERGENIC		
SNP_1887_A_16303632	NC_021160.1	Ca_Kabuli_Chr01	16303632	GG	AA	AA	INTERGENIC		
SNP_1888_A_16303650	NC_021160.1	Ca_Kabuli_Chr01	16303650	TT	CC	CC	INTERGENIC		
SNP_1889_A_16369876	NC_021160.1	Ca_Kabuli_Chr01	16369876	GG	TT	TT	INTERGENIC		
SNP_1890_A_16442395	NC_021160.1	Ca_Kabuli_Chr01	16442395	TT	GG	GG	INTERGENIC		
SNP_1891_A_16479727	NC_021160.1	Ca_Kabuli_Chr01	16479727	GG	AA	AA	INTERGENIC		
SNP_1892_A_16497577	NC_021160.1	Ca_Kabuli_Chr01	16497577	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1894_A_16620872	NC_021160.1	Ca_Kabuli_Chr01	16620872	AA	TT	TT	DRR	101505712	uncharacterized LOC101505712
SNP_1896_A_16636021	NC_021160.1	Ca_Kabuli_Chr01	16636021	AA	TT	TT	NON_SYNONYMOUS_CODING	101506350	NAC transcription factor 25-like
SNP_1898_A_16859108	NC_021160.1	Ca_Kabuli_Chr01	16859108	AA	TT	TT	INTERGENIC		
SNP_1899_A_16907598	NC_021160.1	Ca_Kabuli_Chr01	16907598	AA	GG	GG	INTRON	101511064	MLO-like protein 11
SNP_1900_A_16915478	NC_021160.1	Ca_Kabuli_Chr01	16915478	TT	GG	GG	INTRON	101511064	MLO-like protein 11
SNP_1901_A_16935128	NC_021160.1	Ca_Kabuli_Chr01	16935128	GG	AA	AA	URR	101511704	nucleolar protein 58
SNP_1902_A_16935314	NC_021160.1	Ca_Kabuli_Chr01	16935314	GG	TT	TT	URR	101511704	nucleolar protein 58
SNP_1903_A_17116929	NC_021160.1	Ca_Kabuli_Chr01	17116929	CC	AA	AA	INTERGENIC		
SNP_1904_A_17116950	NC_021160.1	Ca_Kabuli_Chr01	17116950	CC	GG	GG	INTERGENIC		
SNP_1905_A_17120514	NC_021160.1	Ca_Kabuli_Chr01	17120514	GG	TT	TT	INTERGENIC		
SNP_1906_A_17120713	NC_021160.1	Ca_Kabuli_Chr01	17120713	TT	GG	GG	INTERGENIC		
SNP_1907_A_17120780	NC_021160.1	Ca_Kabuli_Chr01	17120780	AA	GG	GG	INTERGENIC		
SNP_1908_A_17120887	NC_021160.1	Ca_Kabuli_Chr01	17120887	CC	AA	AA	INTERGENIC		
SNP_1909_A_17121025	NC_021160.1	Ca_Kabuli_Chr01	17121025	TT	CC	CC	INTERGENIC		
SNP_1910_A_17121056	NC_021160.1	Ca_Kabuli_Chr01	17121056	GG	AA	AA	INTERGENIC		
SNP_1911_A_17122274	NC_021160.1	Ca_Kabuli_Chr01	17122274	TT	GG	GG	INTERGENIC		
SNP_1912_A_17127920	NC_021160.1	Ca_Kabuli_Chr01	17127920	GG	CC	CC	INTERGENIC		
SNP_1913_A_17127940	NC_021160.1	Ca_Kabuli_Chr01	17127940	GG	AA	AA	INTERGENIC		
SNP_1914_A_17127942	NC_021160.1	Ca_Kabuli_Chr01	17127942	GG	AA	AA	INTERGENIC		
SNP_1915_A_17128204	NC_021160.1	Ca_Kabuli_Chr01	17128204	TT	AA	AA	INTERGENIC		
SNP_1916_A_17128237	NC_021160.1	Ca_Kabuli_Chr01	17128237	TT	GG	GG	INTERGENIC		
SNP_1917_A_17128352	NC_021160.1	Ca_Kabuli_Chr01	17128352	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1918_A_17128370	NC_021160.1	Ca_Kabuli_Chr01	17128370	CC	TT	TT	INTERGENIC		
SNP_1920_A_17187067	NC_021160.1	Ca_Kabuli_Chr01	17187067	AA	TT	TT	INTERGENIC		
SNP_1921_A_17187542	NC_021160.1	Ca_Kabuli_Chr01	17187542	CC	GG	GG	INTERGENIC		
SNP_1922_A_17187605	NC_021160.1	Ca_Kabuli_Chr01	17187605	TT	CC	CC	INTERGENIC		
SNP_1923_A_17187619	NC_021160.1	Ca_Kabuli_Chr01	17187619	GG	AA	AA	INTERGENIC		
SNP_1924_A_17187857	NC_021160.1	Ca_Kabuli_Chr01	17187857	CC	TT	TT	DRR	101512989	probable pectinesterase/pectinesterase inhibitor 58
SNP_1925_A_17188094	NC_021160.1	Ca_Kabuli_Chr01	17188094	GG	TT	TT	DRR	101512989	probable pectinesterase/pectinesterase inhibitor 58
SNP_1926_A_17188104	NC_021160.1	Ca_Kabuli_Chr01	17188104	GG	AA	AA	DRR	101512989	probable pectinesterase/pectinesterase inhibitor 58
SNP_1927_A_17222402	NC_021160.1	Ca_Kabuli_Chr01	17222402	TT	CC	CC	INTERGENIC		
SNP_1928_A_17244304	NC_021160.1	Ca_Kabuli_Chr01	17244304	AA	GG	GG	INTERGENIC		
SNP_1929_A_17254528	NC_021160.1	Ca_Kabuli_Chr01	17254528	CC	TT	TT	INTERGENIC		
SNP_1930_A_17255068	NC_021160.1	Ca_Kabuli_Chr01	17255068	TT	CC	CC	INTERGENIC		
SNP_1931_A_17255346	NC_021160.1	Ca_Kabuli_Chr01	17255346	AA	GG	GG	INTERGENIC		
SNP_1932_A_17371107	NC_021160.1	Ca_Kabuli_Chr01	17371107	AA	GG	GG	INTRON	101490977	serine/threonine-protein phosphatase 4 regulatory subunit 3
SNP_1933_A_17431627	NC_021160.1	Ca_Kabuli_Chr01	17431627	GG	AA	AA	INTERGENIC		
SNP_1934_A_17470916	NC_021160.1	Ca_Kabuli_Chr01	17470916	GG	AA	AA	INTERGENIC		
SNP_1935_A_17543041	NC_021160.1	Ca_Kabuli_Chr01	17543041	TT	CC	CC	INTERGENIC		
SNP_1936_A_17588008	NC_021160.1	Ca_Kabuli_Chr01	17588008	CC	AA	AA	URR	101499736	disease resistance response protein DRRG49-C
SNP_1937_A_17613544	NC_021160.1	Ca_Kabuli_Chr01	17613544	AA	GG	GG	INTERGENIC		
SNP_1938_A_17621755	NC_021160.1	Ca_Kabuli_Chr01	17621755	TT	CC	CC	INTERGENIC		
SNP_1939_A_17623909	NC_021160.1	Ca_Kabuli_Chr01	17623909	TT	CC	CC	URR	101502062	protein LIR18B-like
SNP_1940_A_17630677	NC_021160.1	Ca_Kabuli_Chr01	17630677	GG	AA	AA	DRR	101502390	protein LIR18B-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_1941_A_17630951	NC_021160.1	Ca_Kabuli_Chr01	17630951	GG	CC	CC	URR	101502695	uncharacterized LOC101502695
SNP_1942_A_17630953	NC_021160.1	Ca_Kabuli_Chr01	17630953	GG	TT	TT	URR	101502695	uncharacterized LOC101502695
SNP_1943_A_17719641	NC_021160.1	Ca_Kabuli_Chr01	17719641	TT	GG	GG	INTERGENIC		
SNP_1944_A_17729370	NC_021160.1	Ca_Kabuli_Chr01	17729370	AA	CC	CC	INTERGENIC		
SNP_1945_A_17801346	NC_021160.1	Ca_Kabuli_Chr01	17801346	CC	AA	AA	URR	101505168	ethylene-responsive transcription factor RAP2-3
SNP_1946_A_17803977	NC_021160.1	Ca_Kabuli_Chr01	17803977	AA	CC	CC	INTERGENIC		
SNP_1947_A_17809889	NC_021160.1	Ca_Kabuli_Chr01	17809889	CC	AA	AA	INTERGENIC		
SNP_1948_A_17898217	NC_021160.1	Ca_Kabuli_Chr01	17898217	CC	TT	TT	INTERGENIC		
SNP_1949_A_17902566	NC_021160.1	Ca_Kabuli_Chr01	17902566	TT	GG	GG	DRR	101508272	uncharacterized LOC101508272
SNP_1950_A_17902570	NC_021160.1	Ca_Kabuli_Chr01	17902570	AA	GG	GG	DRR	101508272	uncharacterized LOC101508272
SNP_1951_A_17936117	NC_021160.1	Ca_Kabuli_Chr01	17936117	AA	GG	GG	INTERGENIC		
SNP_1952_A_17958840	NC_021160.1	Ca_Kabuli_Chr01	17958840	AA	GG	GG	DRR	101509552	peroxisomal fatty acid beta-oxidation multifunctional protein MFP2-like
SNP_1953_A_18121671	NC_021160.1	Ca_Kabuli_Chr01	18121671	TT	AA	AA	INTERGENIC		
SNP_1954_A_18122007	NC_021160.1	Ca_Kabuli_Chr01	18122007	TT	CC	CC	INTERGENIC		
SNP_1955_A_18122013	NC_021160.1	Ca_Kabuli_Chr01	18122013	TT	CC	CC	INTERGENIC		
SNP_1956_A_18122058	NC_021160.1	Ca_Kabuli_Chr01	18122058	TT	GG	GG	INTERGENIC		
SNP_1958_A_18271170	NC_021160.1	Ca_Kabuli_Chr01	18271170	AA	TT	TT	INTERGENIC		
SNP_1959_A_18279887	NC_021160.1	Ca_Kabuli_Chr01	18279887	GG	AA	AA	INTERGENIC		
SNP_1960_A_18295544	NC_021160.1	Ca_Kabuli_Chr01	18295544	TT	CC	CC	INTERGENIC		
SNP_1961_A_18295584	NC_021160.1	Ca_Kabuli_Chr01	18295584	AA	GG	GG	INTERGENIC		
SNP_1962_A_18296907	NC_021160.1	Ca_Kabuli_Chr01	18296907	GG	CC	CC	INTERGENIC		
SNP_1963_A_18296916	NC_021160.1	Ca_Kabuli_Chr01	18296916	CC	AA	AA	INTERGENIC		

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SNP_1964_A_18297153	NC_021160.1	Ca_Kabuli_Chr01	18297153	GG	AA	AA	INTERGENIC			
SNP_1965_A_18297178	NC_021160.1	Ca_Kabuli_Chr01	18297178	TT	CC	CC	INTERGENIC			
SNP_1966_A_18297273	NC_021160.1	Ca_Kabuli_Chr01	18297273	CC	TT	TT	INTERGENIC			
SNP_1967_A_18298262	NC_021160.1	Ca_Kabuli_Chr01	18298262	AA	TT	TT	INTERGENIC			
SNP_1968_A_18299945	NC_021160.1	Ca_Kabuli_Chr01	18299945	AA	CC	CC	INTERGENIC			
SNP_1969_A_18299962	NC_021160.1	Ca_Kabuli_Chr01	18299962	TT	CC	CC	INTERGENIC			
SNP_1970_A_18299987	NC_021160.1	Ca_Kabuli_Chr01	18299987	TT	CC	CC	INTERGENIC			
SNP_1971_A_18300031	NC_021160.1	Ca_Kabuli_Chr01	18300031	TT	AA	AA	INTERGENIC			
SNP_1972_A_18300032	NC_021160.1	Ca_Kabuli_Chr01	18300032	AA	GG	GG	INTERGENIC			
SNP_1973_A_18300065	NC_021160.1	Ca_Kabuli_Chr01	18300065	AA	GG	GG	INTERGENIC			
SNP_1974_A_18300162	NC_021160.1	Ca_Kabuli_Chr01	18300162	TT	CC	CC	INTERGENIC			
SNP_1975_A_18300561	NC_021160.1	Ca_Kabuli_Chr01	18300561	TT	GG	GG	INTERGENIC			
SNP_1976_A_18300596	NC_021160.1	Ca_Kabuli_Chr01	18300596	CC	TT	TT	INTERGENIC			
SNP_1978_A_18301160	NC_021160.1	Ca_Kabuli_Chr01	18301160	TT	AA	AA	INTERGENIC			
SNP_1979_A_18301178	NC_021160.1	Ca_Kabuli_Chr01	18301178	GG	AA	AA	INTERGENIC			
SNP_1980_A_18301228	NC_021160.1	Ca_Kabuli_Chr01	18301228	AA	GG	GG	INTERGENIC			
SNP_1981_A_18301275	NC_021160.1	Ca_Kabuli_Chr01	18301275	GG	CC	CC	INTERGENIC			
SNP_1982_A_18301292	NC_021160.1	Ca_Kabuli_Chr01	18301292	TT	CC	CC	INTERGENIC			
SNP_1983_A_18301295	NC_021160.1	Ca_Kabuli_Chr01	18301295	TT	CC	CC	INTERGENIC			
SNP_1985_A_18301900	NC_021160.1	Ca_Kabuli_Chr01	18301900	CC	TT	TT	INTERGENIC			
SNP_1986_A_18302162	NC_021160.1	Ca_Kabuli_Chr01	18302162	CC	TT	TT	INTERGENIC			
SNP_1987_A_18302187	NC_021160.1	Ca_Kabuli_Chr01	18302187	GG	AA	AA	INTERGENIC			

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SNP_1988_A_18302201	NC_021160.1	Ca_Kabuli_Chr01	18302201	TT	CC	CC	INTERGENIC			
SNP_1989_A_18302220	NC_021160.1	Ca_Kabuli_Chr01	18302220	GG	TT	TT	INTERGENIC			
SNP_1990_A_18317626	NC_021160.1	Ca_Kabuli_Chr01	18317626	TT	CC	CC	INTERGENIC			
SNP_1992_A_18317939	NC_021160.1	Ca_Kabuli_Chr01	18317939	GG	AA	AA	INTERGENIC			
SNP_1993_A_18325295	NC_021160.1	Ca_Kabuli_Chr01	18325295	GG	AA	AA	INTERGENIC			
SNP_1995_A_18325628	NC_021160.1	Ca_Kabuli_Chr01	18325628	GG	TT	TT	INTERGENIC			
SNP_1996_A_18326588	NC_021160.1	Ca_Kabuli_Chr01	18326588	AA	TT	TT	INTERGENIC			
SNP_1997_A_18326649	NC_021160.1	Ca_Kabuli_Chr01	18326649	AA	GG	GG	INTERGENIC			
SNP_1998_A_18326831	NC_021160.1	Ca_Kabuli_Chr01	18326831	GG	AA	AA	INTERGENIC			
SNP_1999_A_18327300	NC_021160.1	Ca_Kabuli_Chr01	18327300	TT	AA	AA	INTERGENIC			
SNP_2000_A_18327304	NC_021160.1	Ca_Kabuli_Chr01	18327304	AA	GG	GG	INTERGENIC			
SNP_2001_A_18327379	NC_021160.1	Ca_Kabuli_Chr01	18327379	GG	CC	CC	INTERGENIC			
SNP_2002_A_18327549	NC_021160.1	Ca_Kabuli_Chr01	18327549	CC	AA	AA	INTERGENIC			
SNP_2003_A_18327571	NC_021160.1	Ca_Kabuli_Chr01	18327571	GG	AA	AA	INTERGENIC			
SNP_2004_A_18327577	NC_021160.1	Ca_Kabuli_Chr01	18327577	AA	GG	GG	INTERGENIC			
SNP_2005_A_18327618	NC_021160.1	Ca_Kabuli_Chr01	18327618	CC	TT	TT	INTERGENIC			
SNP_2006_A_18327623	NC_021160.1	Ca_Kabuli_Chr01	18327623	GG	AA	AA	INTERGENIC			
SNP_2007_A_18327706	NC_021160.1	Ca_Kabuli_Chr01	18327706	CC	AA	AA	INTERGENIC			
SNP_2008_A_18327724	NC_021160.1	Ca_Kabuli_Chr01	18327724	AA	GG	GG	INTERGENIC			
SNP_2009_A_18327732	NC_021160.1	Ca_Kabuli_Chr01	18327732	AA	CC	CC	INTERGENIC			
SNP_2010_A_18327747	NC_021160.1	Ca_Kabuli_Chr01	18327747	TT	CC	CC	INTERGENIC			
SNP_2011_A_18327797	NC_021160.1	Ca_Kabuli_Chr01	18327797	AA	CC	CC	INTERGENIC			

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SNP_2012_A_18327852	NC_021160.1	Ca_Kabuli_Chr01	18327852	CC	TT	TT	INTERGENIC			
SNP_2013_A_18327889	NC_021160.1	Ca_Kabuli_Chr01	18327889	GG	AA	AA	INTERGENIC			
SNP_2014_A_18327944	NC_021160.1	Ca_Kabuli_Chr01	18327944	TT	AA	AA	INTERGENIC			
SNP_2015_A_18327945	NC_021160.1	Ca_Kabuli_Chr01	18327945	CC	TT	TT	INTERGENIC			
SNP_2016_A_18327946	NC_021160.1	Ca_Kabuli_Chr01	18327946	GG	AA	AA	INTERGENIC			
SNP_2017_A_18327969	NC_021160.1	Ca_Kabuli_Chr01	18327969	TT	CC	CC	INTERGENIC			
SNP_2018_A_18328012	NC_021160.1	Ca_Kabuli_Chr01	18328012	AA	TT	TT	INTERGENIC			
SNP_2019_A_18328084	NC_021160.1	Ca_Kabuli_Chr01	18328084	GG	TT	TT	INTERGENIC			
SNP_2021_A_18328245	NC_021160.1	Ca_Kabuli_Chr01	18328245	GG	AA	AA	INTERGENIC			
SNP_2022_A_18328288	NC_021160.1	Ca_Kabuli_Chr01	18328288	AA	TT	TT	INTERGENIC			
SNP_2023_A_18328374	NC_021160.1	Ca_Kabuli_Chr01	18328374	GG	AA	AA	INTERGENIC			
SNP_2024_A_18328423	NC_021160.1	Ca_Kabuli_Chr01	18328423	CC	TT	TT	INTERGENIC			
SNP_2025_A_18363608	NC_021160.1	Ca_Kabuli_Chr01	18363608	GG	AA	AA	INTERGENIC			
SNP_2026_A_18363694	NC_021160.1	Ca_Kabuli_Chr01	18363694	AA	GG	GG	INTERGENIC			
SNP_2027_A_18363764	NC_021160.1	Ca_Kabuli_Chr01	18363764	GG	AA	AA	INTERGENIC			
SNP_2028_A_18363894	NC_021160.1	Ca_Kabuli_Chr01	18363894	AA	CC	CC	INTERGENIC			
SNP_2029_A_18363926	NC_021160.1	Ca_Kabuli_Chr01	18363926	CC	TT	TT	INTERGENIC			
SNP_2030_A_18363952	NC_021160.1	Ca_Kabuli_Chr01	18363952	CC	TT	TT	INTERGENIC			
SNP_2031_A_18363986	NC_021160.1	Ca_Kabuli_Chr01	18363986	GG	AA	AA	INTERGENIC			
SNP_2032_A_18363995	NC_021160.1	Ca_Kabuli_Chr01	18363995	GG	AA	AA	INTERGENIC			
SNP_2033_A_18364006	NC_021160.1	Ca_Kabuli_Chr01	18364006	AA	TT	TT	INTERGENIC			
SNP_2034_A_18364007	NC_021160.1	Ca_Kabuli_Chr01	18364007	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2035_A_18364025	NC_021160.1	Ca_Kabuli_Chr01	18364025	AA	CC	CC	INTERGENIC			
SNP_2037_A_18364099	NC_021160.1	Ca_Kabuli_Chr01	18364099	CC	GG	GG	INTERGENIC			
SNP_2038_A_18364106	NC_021160.1	Ca_Kabuli_Chr01	18364106	CC	AA	AA	INTERGENIC			
SNP_2039_A_18364147	NC_021160.1	Ca_Kabuli_Chr01	18364147	GG	AA	AA	INTERGENIC			
SNP_2040_A_18364161	NC_021160.1	Ca_Kabuli_Chr01	18364161	AA	GG	GG	INTERGENIC			
SNP_2041_A_18368634	NC_021160.1	Ca_Kabuli_Chr01	18368634	GG	TT	TT	INTERGENIC			
SNP_2042_A_18368747	NC_021160.1	Ca_Kabuli_Chr01	18368747	CC	TT	TT	INTERGENIC			
SNP_2043_A_18368773	NC_021160.1	Ca_Kabuli_Chr01	18368773	AA	GG	GG	INTERGENIC			
SNP_2044_A_18368817	NC_021160.1	Ca_Kabuli_Chr01	18368817	CC	GG	GG	INTERGENIC			
SNP_2045_A_18403695	NC_021160.1	Ca_Kabuli_Chr01	18403695	CC	TT	TT	INTERGENIC			
SNP_2046_A_18407748	NC_021160.1	Ca_Kabuli_Chr01	18407748	CC	TT	TT	INTERGENIC			
SNP_2047_A_18407938	NC_021160.1	Ca_Kabuli_Chr01	18407938	GG	AA	AA	INTERGENIC			
SNP_2048_A_18408133	NC_021160.1	Ca_Kabuli_Chr01	18408133	GG	AA	AA	INTERGENIC			
SNP_2049_A_18418963	NC_021160.1	Ca_Kabuli_Chr01	18418963	CC	TT	TT	INTERGENIC			
SNP_2050_A_18418967	NC_021160.1	Ca_Kabuli_Chr01	18418967	CC	TT	TT	INTERGENIC			
SNP_2051_A_18425388	NC_021160.1	Ca_Kabuli_Chr01	18425388	TT	CC	CC	INTERGENIC			
SNP_2052_A_18425471	NC_021160.1	Ca_Kabuli_Chr01	18425471	TT	AA	AA	INTERGENIC			
SNP_2054_A_18451233	NC_021160.1	Ca_Kabuli_Chr01	18451233	GG	AA	AA	INTERGENIC			
SNP_2055_A_18466077	NC_021160.1	Ca_Kabuli_Chr01	18466077	TT	CC	CC	INTERGENIC			
SNP_2056_A_18466093	NC_021160.1	Ca_Kabuli_Chr01	18466093	TT	CC	CC	INTERGENIC			
SNP_2058_A_18527941	NC_021160.1	Ca_Kabuli_Chr01	18527941	TT	CC	CC	INTERGENIC			
SNP_2059_A_18528184	NC_021160.1	Ca_Kabuli_Chr01	18528184	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2060_A_18552339	NC_021160.1	Ca_Kabuli_Chr01	18552339	GG	AA	AA	INTERGENIC			
SNP_2061_A_18575931	NC_021160.1	Ca_Kabuli_Chr01	18575931	AA	GG	GG	INTERGENIC			
SNP_2062_A_18575933	NC_021160.1	Ca_Kabuli_Chr01	18575933	AA	GG	GG	INTERGENIC			
SNP_2063_A_18581148	NC_021160.1	Ca_Kabuli_Chr01	18581148	AA	GG	GG	INTERGENIC			
SNP_2064_A_18581151	NC_021160.1	Ca_Kabuli_Chr01	18581151	TT	AA	AA	INTERGENIC			
SNP_2065_A_18637998	NC_021160.1	Ca_Kabuli_Chr01	18637998	GG	TT	TT	INTERGENIC			
SNP_2066_A_18637999	NC_021160.1	Ca_Kabuli_Chr01	18637999	GG	AA	AA	INTERGENIC			
SNP_2067_A_18665684	NC_021160.1	Ca_Kabuli_Chr01	18665684	TT	CC	CC	INTERGENIC			
SNP_2068_A_18665687	NC_021160.1	Ca_Kabuli_Chr01	18665687	AA	CC	CC	INTERGENIC			
SNP_2069_A_18665964	NC_021160.1	Ca_Kabuli_Chr01	18665964	AA	TT	TT	INTERGENIC			
SNP_2070_A_18688504	NC_021160.1	Ca_Kabuli_Chr01	18688504	AA	GG	GG	INTERGENIC			
SNP_2072_A_18740378	NC_021160.1	Ca_Kabuli_Chr01	18740378	GG	AA	AA	INTERGENIC			
SNP_2073_A_18824205	NC_021160.1	Ca_Kabuli_Chr01	18824205	TT	CC	CC	INTERGENIC			
SNP_2074_A_18824447	NC_021160.1	Ca_Kabuli_Chr01	18824447	CC	TT	TT	DRR	101499111	uncharacterized LOC101499111	
SNP_2075_A_18824483	NC_021160.1	Ca_Kabuli_Chr01	18824483	AA	GG	GG	DRR	101499111	uncharacterized LOC101499111	
SNP_2076_A_18824489	NC_021160.1	Ca_Kabuli_Chr01	18824489	TT	CC	CC	DRR	101499111	uncharacterized LOC101499111	
SNP_2077_A_18824543	NC_021160.1	Ca_Kabuli_Chr01	18824543	TT	CC	CC	DRR	101499111	uncharacterized LOC101499111	
SNP_2078_A_18868457	NC_021160.1	Ca_Kabuli_Chr01	18868457	AA	TT	TT	INTERGENIC			
SNP_2079_A_18868484	NC_021160.1	Ca_Kabuli_Chr01	18868484	GG	AA	AA	INTERGENIC			
SNP_2080_A_18868557	NC_021160.1	Ca_Kabuli_Chr01	18868557	TT	CC	CC	INTERGENIC			
SNP_2082_A_18868667	NC_021160.1	Ca_Kabuli_Chr01	18868667	AA	GG	GG	INTERGENIC			
SNP_2083_A_18868679	NC_021160.1	Ca_Kabuli_Chr01	18868679	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2084_A_18868684	NC_021160.1	Ca_Kabuli_Chr01	18868684	CC	TT	TT	INTERGENIC			
SNP_2085_A_18870627	NC_021160.1	Ca_Kabuli_Chr01	18870627	GG	AA	AA	INTERGENIC			
SNP_2086_A_18880655	NC_021160.1	Ca_Kabuli_Chr01	18880655	TT	CC	CC	INTERGENIC			
SNP_2087_A_18881034	NC_021160.1	Ca_Kabuli_Chr01	18881034	GG	AA	AA	INTERGENIC			
SNP_2090_A_18933634	NC_021160.1	Ca_Kabuli_Chr01	18933634	TT	AA	AA	INTERGENIC			
SNP_2091_A_19022718	NC_021160.1	Ca_Kabuli_Chr01	19022718	AA	GG	GG	INTERGENIC			
SNP_2092_A_19025172	NC_021160.1	Ca_Kabuli_Chr01	19025172	CC	AA	AA	INTERGENIC			
SNP_2093_A_19025173	NC_021160.1	Ca_Kabuli_Chr01	19025173	TT	AA	AA	INTERGENIC			
SNP_2094_A_19025177	NC_021160.1	Ca_Kabuli_Chr01	19025177	TT	CC	CC	INTERGENIC			
SNP_2095_A_19089115	NC_021160.1	Ca_Kabuli_Chr01	19089115	AA	TT	TT	INTERGENIC			
SNP_2096_A_19111747	NC_021160.1	Ca_Kabuli_Chr01	19111747	TT	CC	CC	INTERGENIC			
SNP_2097_A_19137424	NC_021160.1	Ca_Kabuli_Chr01	19137424	GG	AA	AA	INTERGENIC			
SNP_2098_A_19150701	NC_021160.1	Ca_Kabuli_Chr01	19150701	CC	AA	AA	INTERGENIC			
SNP_2100_A_19151000	NC_021160.1	Ca_Kabuli_Chr01	19151000	TT	CC	CC	INTERGENIC			
SNP_2101_A_19151002	NC_021160.1	Ca_Kabuli_Chr01	19151002	CC	AA	AA	INTERGENIC			
SNP_2102_A_19151031	NC_021160.1	Ca_Kabuli_Chr01	19151031	AA	TT	TT	INTERGENIC			
SNP_2103_A_19151037	NC_021160.1	Ca_Kabuli_Chr01	19151037	TT	AA	AA	INTERGENIC			
SNP_2104_A_19151103	NC_021160.1	Ca_Kabuli_Chr01	19151103	GG	AA	AA	INTERGENIC			
SNP_2105_A_19151112	NC_021160.1	Ca_Kabuli_Chr01	19151112	AA	GG	GG	INTERGENIC			
SNP_2106_A_19151134	NC_021160.1	Ca_Kabuli_Chr01	19151134	TT	CC	CC	INTERGENIC			
SNP_2107_A_19307885	NC_021160.1	Ca_Kabuli_Chr01	19307885	TT	CC	CC	INTERGENIC			
SNP_2108_A_19308243	NC_021160.1	Ca_Kabuli_Chr01	19308243	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2109_A_19320543	NC_021160.1	Ca_Kabuli_Chr01	19320543	TT	CC	CC	URR	101493132	uncharacterized LOC101493132
SNP_2110_A_19376030	NC_021160.1	Ca_Kabuli_Chr01	19376030	AA	CC	CC	INTERGENIC		
SNP_2111_A_19392054	NC_021160.1	Ca_Kabuli_Chr01	19392054	TT	AA	AA	INTERGENIC		
SNP_2112_A_19422853	NC_021160.1	Ca_Kabuli_Chr01	19422853	TT	CC	CC	INTERGENIC		
SNP_2113_A_19423123	NC_021160.1	Ca_Kabuli_Chr01	19423123	CC	TT	TT	INTERGENIC		
SNP_2114_A_19423192	NC_021160.1	Ca_Kabuli_Chr01	19423192	TT	CC	CC	INTERGENIC		
SNP_2115_A_19423310	NC_021160.1	Ca_Kabuli_Chr01	19423310	TT	GG	GG	INTERGENIC		
SNP_2116_A_19427104	NC_021160.1	Ca_Kabuli_Chr01	19427104	TT	CC	CC	INTERGENIC		
SNP_2117_A_19427159	NC_021160.1	Ca_Kabuli_Chr01	19427159	AA	GG	GG	INTERGENIC		
SNP_2118_A_19427178	NC_021160.1	Ca_Kabuli_Chr01	19427178	GG	TT	TT	INTERGENIC		
SNP_2119_A_19427623	NC_021160.1	Ca_Kabuli_Chr01	19427623	TT	CC	CC	INTERGENIC		
SNP_2120_A_19431345	NC_021160.1	Ca_Kabuli_Chr01	19431345	GG	AA	AA	INTERGENIC		
SNP_2121_A_19431349	NC_021160.1	Ca_Kabuli_Chr01	19431349	GG	AA	AA	INTERGENIC		
SNP_2122_A_19431381	NC_021160.1	Ca_Kabuli_Chr01	19431381	TT	CC	CC	INTERGENIC		
SNP_2123_A_19431426	NC_021160.1	Ca_Kabuli_Chr01	19431426	CC	GG	GG	INTERGENIC		
SNP_2124_A_19458248	NC_021160.1	Ca_Kabuli_Chr01	19458248	TT	CC	CC	INTERGENIC		
SNP_2126_A_19499108	NC_021160.1	Ca_Kabuli_Chr01	19499108	AA	CC	CC	INTERGENIC		
SNP_2127_A_19499140	NC_021160.1	Ca_Kabuli_Chr01	19499140	CC	GG	GG	INTERGENIC		
SNP_2128_A_19499186	NC_021160.1	Ca_Kabuli_Chr01	19499186	AA	CC	CC	INTERGENIC		
SNP_2129_A_19499194	NC_021160.1	Ca_Kabuli_Chr01	19499194	GG	TT	TT	INTERGENIC		
SNP_2130_A_19507308	NC_021160.1	Ca_Kabuli_Chr01	19507308	TT	CC	CC	INTERGENIC		
SNP_2131_A_19619453	NC_021160.1	Ca_Kabuli_Chr01	19619453	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2132_A_19619792	NC_021160.1	Ca_Kabuli_Chr01	19619792	AA	GG	GG	INTERGENIC			
SNP_2133_A_19619861	NC_021160.1	Ca_Kabuli_Chr01	19619861	TT	CC	CC	INTERGENIC			
SNP_2134_A_19619866	NC_021160.1	Ca_Kabuli_Chr01	19619866	AA	CC	CC	INTERGENIC			
SNP_2135_A_19619915	NC_021160.1	Ca_Kabuli_Chr01	19619915	TT	CC	CC	INTERGENIC			
SNP_2136_A_19619921	NC_021160.1	Ca_Kabuli_Chr01	19619921	TT	CC	CC	INTERGENIC			
SNP_2137_A_19626514	NC_021160.1	Ca_Kabuli_Chr01	19626514	AA	GG	GG	INTERGENIC			
SNP_2138_A_19627951	NC_021160.1	Ca_Kabuli_Chr01	19627951	TT	CC	CC	INTERGENIC			
SNP_2139_A_19639531	NC_021160.1	Ca_Kabuli_Chr01	19639531	AA	CC	CC	INTERGENIC			
SNP_2140_A_19639534	NC_021160.1	Ca_Kabuli_Chr01	19639534	AA	CC	CC	INTERGENIC			
SNP_2141_A_19649710	NC_021160.1	Ca_Kabuli_Chr01	19649710	CC	TT	TT	INTERGENIC			
SNP_2142_A_19672199	NC_021160.1	Ca_Kabuli_Chr01	19672199	AA	TT	TT	INTERGENIC			
SNP_2143_A_19672200	NC_021160.1	Ca_Kabuli_Chr01	19672200	AA	CC	CC	INTERGENIC			
SNP_2144_A_19697200	NC_021160.1	Ca_Kabuli_Chr01	19697200	AA	GG	GG	INTERGENIC			
SNP_2145_A_19697357	NC_021160.1	Ca_Kabuli_Chr01	19697357	TT	CC	CC	INTERGENIC			
SNP_2146_A_19697538	NC_021160.1	Ca_Kabuli_Chr01	19697538	CC	TT	TT	INTERGENIC			
SNP_2147_A_19697674	NC_021160.1	Ca_Kabuli_Chr01	19697674	AA	GG	GG	INTERGENIC			
SNP_2148_A_19720994	NC_021160.1	Ca_Kabuli_Chr01	19720994	AA	GG	GG	INTERGENIC			
SNP_2149_A_19742632	NC_021160.1	Ca_Kabuli_Chr01	19742632	CC	TT	TT	INTERGENIC			
SNP_2150_A_19742669	NC_021160.1	Ca_Kabuli_Chr01	19742669	GG	TT	TT	INTERGENIC			
SNP_2151_A_19742684	NC_021160.1	Ca_Kabuli_Chr01	19742684	CC	TT	TT	INTERGENIC			
SNP_2152_A_19742713	NC_021160.1	Ca_Kabuli_Chr01	19742713	GG	AA	AA	INTERGENIC			
SNP_2153_A_19742720	NC_021160.1	Ca_Kabuli_Chr01	19742720	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2154_A_19764066	NC_021160.1	Ca_Kabuli_Chr01	19764066	TT	CC	CC	INTERGENIC		
SNP_2155_A_19800544	NC_021160.1	Ca_Kabuli_Chr01	19800544	GG	TT	TT	INTERGENIC		
SNP_2156_A_19812981	NC_021160.1	Ca_Kabuli_Chr01	19812981	TT	CC	CC	INTERGENIC		
SNP_2157_A_19812997	NC_021160.1	Ca_Kabuli_Chr01	19812997	CC	TT	TT	INTERGENIC		
SNP_2158_A_19813034	NC_021160.1	Ca_Kabuli_Chr01	19813034	TT	CC	CC	INTERGENIC		
SNP_2159_A_19813041	NC_021160.1	Ca_Kabuli_Chr01	19813041	CC	TT	TT	INTERGENIC		
SNP_2161_A_19909020	NC_021160.1	Ca_Kabuli_Chr01	19909020	GG	AA	AA	URR	101507754	DNA-directed RNA polymerase I subunit rpa49
SNP_2163_A_19938927	NC_021160.1	Ca_Kabuli_Chr01	19938927	TT	AA	AA	INTERGENIC		
SNP_2164_A_19952894	NC_021160.1	Ca_Kabuli_Chr01	19952894	CC	TT	TT	INTERGENIC		
SNP_2165_A_19968815	NC_021160.1	Ca_Kabuli_Chr01	19968815	AA	GG	GG	INTERGENIC		
SNP_2166_A_20072771	NC_021160.1	Ca_Kabuli_Chr01	20072771	TT	AA	AA	DRR	101512446	DNA ligase 4
SNP_2167_A_20085134	NC_021160.1	Ca_Kabuli_Chr01	20085134	GG	TT	TT	URR	101512120	polyadenylate-binding protein RBP45-like
SNP_2169_A_21570909	NC_021160.1	Ca_Kabuli_Chr01	21570909	GG	AA	AA	INTERGENIC		
SNP_2170_A_21572248	NC_021160.1	Ca_Kabuli_Chr01	21572248	CC	TT	TT	INTERGENIC		
SNP_2171_A_21657089	NC_021160.1	Ca_Kabuli_Chr01	21657089	AA	GG	GG	INTERGENIC		
SNP_2172_A_21657102	NC_021160.1	Ca_Kabuli_Chr01	21657102	AA	CC	CC	INTERGENIC		
SNP_2173_A_21657337	NC_021160.1	Ca_Kabuli_Chr01	21657337	AA	TT	TT	INTERGENIC		
SNP_2174_A_21657432	NC_021160.1	Ca_Kabuli_Chr01	21657432	TT	CC	CC	INTERGENIC		
SNP_2175_A_21657436	NC_021160.1	Ca_Kabuli_Chr01	21657436	AA	GG	GG	INTERGENIC		
SNP_2176_A_21657610	NC_021160.1	Ca_Kabuli_Chr01	21657610	AA	GG	GG	INTERGENIC		
SNP_2177_A_21657625	NC_021160.1	Ca_Kabuli_Chr01	21657625	AA	GG	GG	INTERGENIC		
SNP_2178_A_21657643	NC_021160.1	Ca_Kabuli_Chr01	21657643	TT	GG	GG	INTERGENIC		

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SNP_2179_A_21657661	NC_021160.1	Ca_Kabuli_Chr01	21657661	GG	TT	TT	INTERGENIC			
SNP_2180_A_21657667	NC_021160.1	Ca_Kabuli_Chr01	21657667	GG	AA	AA	INTERGENIC			
SNP_2181_A_21657697	NC_021160.1	Ca_Kabuli_Chr01	21657697	AA	GG	GG	INTERGENIC			
SNP_2182_A_21657714	NC_021160.1	Ca_Kabuli_Chr01	21657714	GG	AA	AA	INTERGENIC			
SNP_2184_A_21657732	NC_021160.1	Ca_Kabuli_Chr01	21657732	AA	GG	GG	INTERGENIC			
SNP_2185_A_21657733	NC_021160.1	Ca_Kabuli_Chr01	21657733	GG	AA	AA	INTERGENIC			
SNP_2186_A_21657769	NC_021160.1	Ca_Kabuli_Chr01	21657769	GG	AA	AA	INTERGENIC			
SNP_2187_A_21657787	NC_021160.1	Ca_Kabuli_Chr01	21657787	AA	TT	TT	INTERGENIC			
SNP_2188_A_21657811	NC_021160.1	Ca_Kabuli_Chr01	21657811	AA	GG	GG	INTERGENIC			
SNP_2189_A_21657817	NC_021160.1	Ca_Kabuli_Chr01	21657817	GG	AA	AA	INTERGENIC			
SNP_2190_A_21657838	NC_021160.1	Ca_Kabuli_Chr01	21657838	TT	CC	CC	INTERGENIC			
SNP_2191_A_21657847	NC_021160.1	Ca_Kabuli_Chr01	21657847	TT	AA	AA	INTERGENIC			
SNP_2192_A_21657850	NC_021160.1	Ca_Kabuli_Chr01	21657850	AA	TT	TT	INTERGENIC			
SNP_2193_A_21699390	NC_021160.1	Ca_Kabuli_Chr01	21699390	CC	TT	TT	INTERGENIC			
SNP_2194_A_21699877	NC_021160.1	Ca_Kabuli_Chr01	21699877	AA	GG	GG	INTERGENIC			
SNP_2195_A_21703194	NC_021160.1	Ca_Kabuli_Chr01	21703194	AA	TT	TT	INTERGENIC			
SNP_2196_A_21703195	NC_021160.1	Ca_Kabuli_Chr01	21703195	AA	TT	TT	INTERGENIC			
SNP_2198_A_21769564	NC_021160.1	Ca_Kabuli_Chr01	21769564	AA	TT	TT	INTERGENIC			
SNP_2200_A_21777841	NC_021160.1	Ca_Kabuli_Chr01	21777841	CC	AA	AA	URR		101491077	Unknown function
SNP_2201_A_21831338	NC_021160.1	Ca_Kabuli_Chr01	21831338	GG	AA	AA	URR		101492023	60S ribosomal protein L7-4-like
SNP_2202_A_21919134	NC_021160.1	Ca_Kabuli_Chr01	21919134	TT	CC	CC	INTRON		101492361	calcium-transporting ATPase 8, plasma membrane-type
SNP_2203_A_22065235	NC_021160.1	Ca_Kabuli_Chr01	22065235	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2204_A_22069336	NC_021160.1	Ca_Kabuli_Chr01	22069336	GG	AA	AA	INTERGENIC			
SNP_2205_A_22069342	NC_021160.1	Ca_Kabuli_Chr01	22069342	CC	AA	AA	INTERGENIC			
SNP_2206_A_22070133	NC_021160.1	Ca_Kabuli_Chr01	22070133	GG	TT	TT	INTERGENIC			
SNP_2207_A_22070192	NC_021160.1	Ca_Kabuli_Chr01	22070192	AA	TT	TT	INTERGENIC			
SNP_2208_A_22070203	NC_021160.1	Ca_Kabuli_Chr01	22070203	AA	TT	TT	INTERGENIC			
SNP_2209_A_22070437	NC_021160.1	Ca_Kabuli_Chr01	22070437	AA	GG	GG	INTERGENIC			
SNP_2210_A_22070637	NC_021160.1	Ca_Kabuli_Chr01	22070637	AA	TT	TT	INTERGENIC			
SNP_2211_A_22070706	NC_021160.1	Ca_Kabuli_Chr01	22070706	AA	TT	TT	INTERGENIC			
SNP_2212_A_22070725	NC_021160.1	Ca_Kabuli_Chr01	22070725	TT	GG	GG	INTERGENIC			
SNP_2213_A_22070779	NC_021160.1	Ca_Kabuli_Chr01	22070779	TT	GG	GG	INTERGENIC			
SNP_2214_A_22071007	NC_021160.1	Ca_Kabuli_Chr01	22071007	GG	CC	CC	INTERGENIC			
SNP_2215_A_22071039	NC_021160.1	Ca_Kabuli_Chr01	22071039	TT	AA	AA	INTERGENIC			
SNP_2216_A_22071052	NC_021160.1	Ca_Kabuli_Chr01	22071052	CC	AA	AA	INTERGENIC			
SNP_2217_A_22071071	NC_021160.1	Ca_Kabuli_Chr01	22071071	CC	TT	TT	INTERGENIC			
SNP_2218_A_22071314	NC_021160.1	Ca_Kabuli_Chr01	22071314	CC	TT	TT	INTERGENIC			
SNP_2219_A_22071320	NC_021160.1	Ca_Kabuli_Chr01	22071320	CC	TT	TT	INTERGENIC			
SNP_2220_A_22071361	NC_021160.1	Ca_Kabuli_Chr01	22071361	AA	GG	GG	INTERGENIC			
SNP_2221_A_22071366	NC_021160.1	Ca_Kabuli_Chr01	22071366	AA	GG	GG	INTERGENIC			
SNP_2222_A_22071381	NC_021160.1	Ca_Kabuli_Chr01	22071381	GG	AA	AA	INTERGENIC			
SNP_2223_A_22071565	NC_021160.1	Ca_Kabuli_Chr01	22071565	AA	GG	GG	INTERGENIC			
SNP_2224_A_22071614	NC_021160.1	Ca_Kabuli_Chr01	22071614	AA	TT	TT	INTERGENIC			
SNP_2225_A_22071805	NC_021160.1	Ca_Kabuli_Chr01	22071805	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2226_A_22131043	NC_021160.1	Ca_Kabuli_Chr01	22131043	CC	TT	TT	INTERGENIC			
SNP_2227_A_22131124	NC_021160.1	Ca_Kabuli_Chr01	22131124	CC	TT	TT	INTERGENIC			
SNP_2228_A_22131225	NC_021160.1	Ca_Kabuli_Chr01	22131225	CC	AA	AA	INTERGENIC			
SNP_2230_A_22131347	NC_021160.1	Ca_Kabuli_Chr01	22131347	AA	GG	GG	INTERGENIC			
SNP_2231_A_22131419	NC_021160.1	Ca_Kabuli_Chr01	22131419	GG	AA	AA	INTERGENIC			
SNP_2232_A_22131488	NC_021160.1	Ca_Kabuli_Chr01	22131488	CC	TT	TT	INTERGENIC			
SNP_2234_A_22131677	NC_021160.1	Ca_Kabuli_Chr01	22131677	AA	GG	GG	INTERGENIC			
SNP_2235_A_22131740	NC_021160.1	Ca_Kabuli_Chr01	22131740	TT	CC	CC	INTERGENIC			
SNP_2236_A_22131743	NC_021160.1	Ca_Kabuli_Chr01	22131743	TT	CC	CC	INTERGENIC			
SNP_2237_A_22131861	NC_021160.1	Ca_Kabuli_Chr01	22131861	GG	AA	AA	INTERGENIC			
SNP_2238_A_22132010	NC_021160.1	Ca_Kabuli_Chr01	22132010	AA	CC	CC	INTERGENIC			
SNP_2240_A_22132229	NC_021160.1	Ca_Kabuli_Chr01	22132229	CC	TT	TT	INTERGENIC			
SNP_2241_A_22132495	NC_021160.1	Ca_Kabuli_Chr01	22132495	AA	GG	GG	INTERGENIC			
SNP_2242_A_22132506	NC_021160.1	Ca_Kabuli_Chr01	22132506	CC	TT	TT	INTERGENIC			
SNP_2243_A_22132542	NC_021160.1	Ca_Kabuli_Chr01	22132542	AA	GG	GG	INTERGENIC			
SNP_2244_A_22132550	NC_021160.1	Ca_Kabuli_Chr01	22132550	AA	TT	TT	INTERGENIC			
SNP_2245_A_22132578	NC_021160.1	Ca_Kabuli_Chr01	22132578	CC	TT	TT	INTERGENIC			
SNP_2246_A_22132899	NC_021160.1	Ca_Kabuli_Chr01	22132899	AA	GG	GG	INTERGENIC			
SNP_2247_A_22132980	NC_021160.1	Ca_Kabuli_Chr01	22132980	AA	GG	GG	INTERGENIC			
SNP_2248_A_22133069	NC_021160.1	Ca_Kabuli_Chr01	22133069	GG	AA	AA	INTERGENIC			
SNP_2249_A_22133117	NC_021160.1	Ca_Kabuli_Chr01	22133117	CC	TT	TT	INTERGENIC			
SNP_2250_A_22133125	NC_021160.1	Ca_Kabuli_Chr01	22133125	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2251_A_22133130	NC_021160.1	Ca_Kabuli_Chr01	22133130	AA	TT	TT	INTERGENIC		
SNP_2252_A_22133140	NC_021160.1	Ca_Kabuli_Chr01	22133140	TT	AA	AA	INTERGENIC		
SNP_2253_A_22133171	NC_021160.1	Ca_Kabuli_Chr01	22133171	GG	AA	AA	INTERGENIC		
SNP_2254_A_22133214	NC_021160.1	Ca_Kabuli_Chr01	22133214	TT	CC	CC	INTERGENIC		
SNP_2255_A_22133611	NC_021160.1	Ca_Kabuli_Chr01	22133611	GG	AA	AA	INTERGENIC		
SNP_2256_A_22171785	NC_021160.1	Ca_Kabuli_Chr01	22171785	GG	AA	AA	URR	101509228	homeobox-leucine zipper protein HAT2-like
SNP_2257_A_22200846	NC_021160.1	Ca_Kabuli_Chr01	22200846	TT	GG	GG	INTERGENIC		
SNP_2258_A_22201071	NC_021160.1	Ca_Kabuli_Chr01	22201071	CC	AA	AA	INTERGENIC		
SNP_2259_A_22226915	NC_021160.1	Ca_Kabuli_Chr01	22226915	AA	GG	GG	INTERGENIC		
SNP_2260_A_22241501	NC_021160.1	Ca_Kabuli_Chr01	22241501	CC	GG	GG	INTERGENIC		
SNP_2261_A_22241534	NC_021160.1	Ca_Kabuli_Chr01	22241534	TT	CC	CC	INTERGENIC		
SNP_2262_A_22241602	NC_021160.1	Ca_Kabuli_Chr01	22241602	GG	AA	AA	INTERGENIC		
SNP_2263_A_22241634	NC_021160.1	Ca_Kabuli_Chr01	22241634	GG	AA	AA	INTERGENIC		
SNP_2264_A_22241848	NC_021160.1	Ca_Kabuli_Chr01	22241848	TT	AA	AA	INTERGENIC		
SNP_2265_A_22242083	NC_021160.1	Ca_Kabuli_Chr01	22242083	AA	CC	CC	INTERGENIC		
SNP_2266_A_22244563	NC_021160.1	Ca_Kabuli_Chr01	22244563	CC	GG	GG	INTERGENIC		
SNP_2267_A_22244565	NC_021160.1	Ca_Kabuli_Chr01	22244565	CC	TT	TT	INTERGENIC		
SNP_2268_A_22244596	NC_021160.1	Ca_Kabuli_Chr01	22244596	TT	AA	AA	INTERGENIC		
SNP_2269_A_22244601	NC_021160.1	Ca_Kabuli_Chr01	22244601	GG	AA	AA	INTERGENIC		
SNP_2270_A_22244666	NC_021160.1	Ca_Kabuli_Chr01	22244666	TT	AA	AA	INTERGENIC		
SNP_2271_A_22244724	NC_021160.1	Ca_Kabuli_Chr01	22244724	AA	GG	GG	INTERGENIC		
SNP_2272_A_22244729	NC_021160.1	Ca_Kabuli_Chr01	22244729	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2273_A_22244797	NC_021160.1	Ca_Kabuli_Chr01	22244797	AA	TT	TT	INTERGENIC			
SNP_2274_A_22244937	NC_021160.1	Ca_Kabuli_Chr01	22244937	GG	AA	AA	INTERGENIC			
SNP_2275_A_22244999	NC_021160.1	Ca_Kabuli_Chr01	22244999	TT	AA	AA	INTERGENIC			
SNP_2276_A_22245000	NC_021160.1	Ca_Kabuli_Chr01	22245000	TT	GG	GG	INTERGENIC			
SNP_2277_A_22245001	NC_021160.1	Ca_Kabuli_Chr01	22245001	TT	GG	GG	INTERGENIC			
SNP_2278_A_22245002	NC_021160.1	Ca_Kabuli_Chr01	22245002	GG	CC	CC	INTERGENIC			
SNP_2279_A_22245071	NC_021160.1	Ca_Kabuli_Chr01	22245071	GG	AA	AA	INTERGENIC			
SNP_2280_A_22245076	NC_021160.1	Ca_Kabuli_Chr01	22245076	CC	AA	AA	INTERGENIC			
SNP_2281_A_22245077	NC_021160.1	Ca_Kabuli_Chr01	22245077	CC	TT	TT	INTERGENIC			
SNP_2282_A_22245096	NC_021160.1	Ca_Kabuli_Chr01	22245096	CC	TT	TT	INTERGENIC			
SNP_2283_A_22247047	NC_021160.1	Ca_Kabuli_Chr01	22247047	TT	CC	CC	INTERGENIC			
SNP_2284_A_22250762	NC_021160.1	Ca_Kabuli_Chr01	22250762	AA	CC	CC	INTERGENIC			
SNP_2285_A_22251031	NC_021160.1	Ca_Kabuli_Chr01	22251031	TT	CC	CC	INTERGENIC			
SNP_2286_A_22251041	NC_021160.1	Ca_Kabuli_Chr01	22251041	GG	AA	AA	INTERGENIC			
SNP_2287_A_22252009	NC_021160.1	Ca_Kabuli_Chr01	22252009	AA	GG	GG	INTERGENIC			
SNP_2288_A_22252044	NC_021160.1	Ca_Kabuli_Chr01	22252044	AA	TT	TT	INTERGENIC			
SNP_2289_A_22252093	NC_021160.1	Ca_Kabuli_Chr01	22252093	TT	CC	CC	INTERGENIC			
SNP_2290_A_22252131	NC_021160.1	Ca_Kabuli_Chr01	22252131	AA	GG	GG	INTERGENIC			
SNP_2291_A_22252597	NC_021160.1	Ca_Kabuli_Chr01	22252597	TT	CC	CC	INTERGENIC			
SNP_2292_A_22252695	NC_021160.1	Ca_Kabuli_Chr01	22252695	AA	GG	GG	INTERGENIC			
SNP_2293_A_22252740	NC_021160.1	Ca_Kabuli_Chr01	22252740	AA	GG	GG	INTERGENIC			
SNP_2294_A_22252884	NC_021160.1	Ca_Kabuli_Chr01	22252884	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2295_A_22252961	NC_021160.1	Ca_Kabuli_Chr01	22252961	GG	AA	AA	INTERGENIC			
SNP_2296_A_22252990	NC_021160.1	Ca_Kabuli_Chr01	22252990	AA	GG	GG	INTERGENIC			
SNP_2297_A_22253274	NC_021160.1	Ca_Kabuli_Chr01	22253274	AA	GG	GG	INTERGENIC			
SNP_2298_A_22253288	NC_021160.1	Ca_Kabuli_Chr01	22253288	TT	CC	CC	INTERGENIC			
SNP_2299_A_22253605	NC_021160.1	Ca_Kabuli_Chr01	22253605	TT	CC	CC	INTERGENIC			
SNP_2300_A_22253626	NC_021160.1	Ca_Kabuli_Chr01	22253626	TT	AA	AA	INTERGENIC			
SNP_2301_A_22253664	NC_021160.1	Ca_Kabuli_Chr01	22253664	GG	AA	AA	INTERGENIC			
SNP_2302_A_22253669	NC_021160.1	Ca_Kabuli_Chr01	22253669	GG	AA	AA	INTERGENIC			
SNP_2303_A_22253708	NC_021160.1	Ca_Kabuli_Chr01	22253708	TT	GG	GG	INTERGENIC			
SNP_2304_A_22253936	NC_021160.1	Ca_Kabuli_Chr01	22253936	CC	TT	TT	INTERGENIC			
SNP_2305_A_22254325	NC_021160.1	Ca_Kabuli_Chr01	22254325	TT	GG	GG	INTERGENIC			
SNP_2306_A_22277145	NC_021160.1	Ca_Kabuli_Chr01	22277145	AA	TT	TT	INTERGENIC			
SNP_2307_A_22285649	NC_021160.1	Ca_Kabuli_Chr01	22285649	CC	TT	TT	URR	101500381	beta-galactosidase-like	
SNP_2308_A_22285729	NC_021160.1	Ca_Kabuli_Chr01	22285729	TT	CC	CC	URR	101500381	beta-galactosidase-like	
SNP_2309_A_22285765	NC_021160.1	Ca_Kabuli_Chr01	22285765	TT	CC	CC	URR	101500381	beta-galactosidase-like	
SNP_2310_A_22285879	NC_021160.1	Ca_Kabuli_Chr01	22285879	TT	GG	GG	URR	101500381	beta-galactosidase-like	
SNP_2311_A_22286007	NC_021160.1	Ca_Kabuli_Chr01	22286007	AA	GG	GG	URR	101500381	beta-galactosidase-like	
SNP_2312_A_22286009	NC_021160.1	Ca_Kabuli_Chr01	22286009	AA	GG	GG	URR	101500381	beta-galactosidase-like	
SNP_2313_A_22286011	NC_021160.1	Ca_Kabuli_Chr01	22286011	GG	AA	AA	URR	101500381	beta-galactosidase-like	
SNP_2314_A_22286032	NC_021160.1	Ca_Kabuli_Chr01	22286032	TT	CC	CC	URR	101500381	beta-galactosidase-like	
SNP_2315_A_22293517	NC_021160.1	Ca_Kabuli_Chr01	22293517	AA	CC	CC	INTERGENIC			
SNP_2316_A_22293654	NC_021160.1	Ca_Kabuli_Chr01	22293654	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2317_A_22322944	NC_021160.1	Ca_Kabuli_Chr01	22322944	TT	CC	CC	INTERGENIC		
SNP_2318_A_22329273	NC_021160.1	Ca_Kabuli_Chr01	22329273	TT	CC	CC	INTERGENIC		
SNP_2320_A_22329691	NC_021160.1	Ca_Kabuli_Chr01	22329691	CC	TT	TT	INTERGENIC		
SNP_2321_A_22329707	NC_021160.1	Ca_Kabuli_Chr01	22329707	TT	AA	AA	INTERGENIC		
SNP_2322_A_22378727	NC_021160.1	Ca_Kabuli_Chr01	22378727	GG	CC	CC	INTRON	101501639	receptor-like serine/threonine-protein kinase ALE2
SNP_2324_A_22385207	NC_021160.1	Ca_Kabuli_Chr01	22385207	TT	CC	CC	URR	101501639	receptor-like serine/threonine-protein kinase ALE2
SNP_2325_A_22392386	NC_021160.1	Ca_Kabuli_Chr01	22392386	GG	AA	AA	INTERGENIC		
SNP_2326_A_22434884	NC_021160.1	Ca_Kabuli_Chr01	22434884	AA	GG	GG	INTERGENIC		
SNP_2327_A_22478565	NC_021160.1	Ca_Kabuli_Chr01	22478565	AA	GG	GG	INTRON	101511173	cytokinin dehydrogenase 2-like
SNP_2328_A_22500884	NC_021160.1	Ca_Kabuli_Chr01	22500884	AA	CC	CC	INTERGENIC		
SNP_2329_A_22547058	NC_021160.1	Ca_Kabuli_Chr01	22547058	TT	CC	CC	URR	101511810	cytokinin dehydrogenase 4-like
SNP_2330_A_22547065	NC_021160.1	Ca_Kabuli_Chr01	22547065	TT	AA	AA	URR	101511810	cytokinin dehydrogenase 4-like
SNP_2331_A_22547089	NC_021160.1	Ca_Kabuli_Chr01	22547089	CC	TT	TT	URR	101511810	cytokinin dehydrogenase 4-like
SNP_2332_A_22547522	NC_021160.1	Ca_Kabuli_Chr01	22547522	TT	CC	CC	URR	101511810	cytokinin dehydrogenase 4-like
SNP_2333_A_22547524	NC_021160.1	Ca_Kabuli_Chr01	22547524	TT	CC	CC	INTERGENIC		
SNP_2334_A_22554027	NC_021160.1	Ca_Kabuli_Chr01	22554027	TT	CC	CC	INTERGENIC		
SNP_2335_A_22554028	NC_021160.1	Ca_Kabuli_Chr01	22554028	TT	CC	CC	INTERGENIC		
SNP_2336_A_22554053	NC_021160.1	Ca_Kabuli_Chr01	22554053	CC	TT	TT	INTERGENIC		
SNP_2337_A_22554093	NC_021160.1	Ca_Kabuli_Chr01	22554093	TT	GG	GG	INTERGENIC		
SNP_2338_A_22554103	NC_021160.1	Ca_Kabuli_Chr01	22554103	AA	GG	GG	INTERGENIC		
SNP_2339_A_22554122	NC_021160.1	Ca_Kabuli_Chr01	22554122	CC	TT	TT	INTERGENIC		
SNP_2340_A_22554135	NC_021160.1	Ca_Kabuli_Chr01	22554135	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2341_A_22554161	NC_021160.1	Ca_Kabuli_Chr01	22554161	TT	AA	AA	INTERGENIC		
SNP_2342_A_22554299	NC_021160.1	Ca_Kabuli_Chr01	22554299	TT	GG	GG	INTERGENIC		
SNP_2343_A_22554325	NC_021160.1	Ca_Kabuli_Chr01	22554325	GG	TT	TT	INTERGENIC		
SNP_2344_A_22554347	NC_021160.1	Ca_Kabuli_Chr01	22554347	CC	GG	GG	INTERGENIC		
SNP_2345_A_22554399	NC_021160.1	Ca_Kabuli_Chr01	22554399	GG	AA	AA	INTERGENIC		
SNP_2346_A_22554419	NC_021160.1	Ca_Kabuli_Chr01	22554419	GG	AA	AA	INTERGENIC		
SNP_2347_A_22554467	NC_021160.1	Ca_Kabuli_Chr01	22554467	TT	CC	CC	INTERGENIC		
SNP_2348_A_22554476	NC_021160.1	Ca_Kabuli_Chr01	22554476	GG	AA	AA	INTERGENIC		
SNP_2349_A_22554513	NC_021160.1	Ca_Kabuli_Chr01	22554513	AA	GG	GG	INTERGENIC		
SNP_2350_A_22587621	NC_021160.1	Ca_Kabuli_Chr01	22587621	TT	CC	CC	INTERGENIC		
SNP_2351_A_22599322	NC_021160.1	Ca_Kabuli_Chr01	22599322	CC	TT	TT	INTERGENIC		
SNP_2352_A_22653976	NC_021160.1	Ca_Kabuli_Chr01	22653976	CC	TT	TT	INTERGENIC		
SNP_2353_A_22661495	NC_021160.1	Ca_Kabuli_Chr01	22661495	CC	AA	AA	INTRON	101513095	uncharacterized LOC101513095
SNP_2354_A_22663991	NC_021160.1	Ca_Kabuli_Chr01	22663991	TT	CC	CC	INTRON	101513095	uncharacterized LOC101513095
SNP_2355_A_22664001	NC_021160.1	Ca_Kabuli_Chr01	22664001	AA	CC	CC	INTRON	101513095	uncharacterized LOC101513095
SNP_2356_A_22664003	NC_021160.1	Ca_Kabuli_Chr01	22664003	AA	CC	CC	INTRON	101513095	uncharacterized LOC101513095
SNP_2357_A_22664245	NC_021160.1	Ca_Kabuli_Chr01	22664245	GG	AA	AA	INTRON	101513095	uncharacterized LOC101513095
SNP_2358_A_22682652	NC_021160.1	Ca_Kabuli_Chr01	22682652	TT	AA	AA	INTERGENIC		
SNP_2359_A_22719491	NC_021160.1	Ca_Kabuli_Chr01	22719491	AA	TT	TT	DRR	101506897	nucleosome assembly protein 1;3-like
SNP_2360_A_22720507	NC_021160.1	Ca_Kabuli_Chr01	22720507	CC	GG	GG	INTRON	101506897	nucleosome assembly protein 1;3-like
SNP_2363_A_22805096	NC_021160.1	Ca_Kabuli_Chr01	22805096	GG	AA	AA	INTERGENIC		
SNP_2364_A_22805906	NC_021160.1	Ca_Kabuli_Chr01	22805906	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2365_A_22828051	NC_021160.1	Ca_Kabuli_Chr01	22828051	AA	GG	GG	INTERGENIC			
SNP_2366_A_22828068	NC_021160.1	Ca_Kabuli_Chr01	22828068	GG	AA	AA	INTERGENIC			
SNP_2367_A_22828108	NC_021160.1	Ca_Kabuli_Chr01	22828108	AA	TT	TT	INTERGENIC			
SNP_2368_A_22835168	NC_021160.1	Ca_Kabuli_Chr01	22835168	AA	CC	CC	INTERGENIC			
SNP_2369_A_22835176	NC_021160.1	Ca_Kabuli_Chr01	22835176	AA	TT	TT	INTERGENIC			
SNP_2370_A_22853248	NC_021160.1	Ca_Kabuli_Chr01	22853248	TT	CC	CC	INTERGENIC			
SNP_2371_A_22853300	NC_021160.1	Ca_Kabuli_Chr01	22853300	AA	GG	GG	INTERGENIC			
SNP_2372_A_22863489	NC_021160.1	Ca_Kabuli_Chr01	22863489	CC	TT	TT	INTERGENIC			
SNP_2373_A_22865415	NC_021160.1	Ca_Kabuli_Chr01	22865415	TT	CC	CC	INTERGENIC			
SNP_2374_A_22884757	NC_021160.1	Ca_Kabuli_Chr01	22884757	AA	GG	GG	INTERGENIC			
SNP_2375_A_22885790	NC_021160.1	Ca_Kabuli_Chr01	22885790	AA	TT	TT	INTERGENIC			
SNP_2376_A_22885881	NC_021160.1	Ca_Kabuli_Chr01	22885881	TT	AA	AA	INTERGENIC			
SNP_2377_A_22886030	NC_021160.1	Ca_Kabuli_Chr01	22886030	GG	AA	AA	INTERGENIC			
SNP_2378_A_22886047	NC_021160.1	Ca_Kabuli_Chr01	22886047	CC	TT	TT	INTERGENIC			
SNP_2380_A_22886144	NC_021160.1	Ca_Kabuli_Chr01	22886144	AA	GG	GG	INTERGENIC			
SNP_2381_A_22886154	NC_021160.1	Ca_Kabuli_Chr01	22886154	AA	TT	TT	INTERGENIC			
SNP_2382_A_22886166	NC_021160.1	Ca_Kabuli_Chr01	22886166	AA	GG	GG	INTERGENIC			
SNP_2383_A_22886176	NC_021160.1	Ca_Kabuli_Chr01	22886176	AA	GG	GG	INTERGENIC			
SNP_2384_A_22886280	NC_021160.1	Ca_Kabuli_Chr01	22886280	TT	CC	CC	INTERGENIC			
SNP_2385_A_22886301	NC_021160.1	Ca_Kabuli_Chr01	22886301	GG	AA	AA	INTERGENIC			
SNP_2386_A_22886319	NC_021160.1	Ca_Kabuli_Chr01	22886319	TT	CC	CC	INTERGENIC			
SNP_2387_A_22887337	NC_021160.1	Ca_Kabuli_Chr01	22887337	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2388_A_22896672	NC_021160.1	Ca_Kabuli_Chr01	22896672	AA	CC	CC	INTERGENIC			
SNP_2389_A_22896744	NC_021160.1	Ca_Kabuli_Chr01	22896744	CC	TT	TT	INTERGENIC			
SNP_2391_A_22896931	NC_021160.1	Ca_Kabuli_Chr01	22896931	GG	TT	TT	INTERGENIC			
SNP_2392_A_22896981	NC_021160.1	Ca_Kabuli_Chr01	22896981	TT	GG	GG	INTERGENIC			
SNP_2393_A_22897036	NC_021160.1	Ca_Kabuli_Chr01	22897036	CC	GG	GG	INTERGENIC			
SNP_2394_A_22897071	NC_021160.1	Ca_Kabuli_Chr01	22897071	TT	CC	CC	INTERGENIC			
SNP_2395_A_22897090	NC_021160.1	Ca_Kabuli_Chr01	22897090	GG	AA	AA	INTERGENIC			
SNP_2396_A_22897110	NC_021160.1	Ca_Kabuli_Chr01	22897110	TT	GG	GG	INTERGENIC			
SNP_2397_A_22897113	NC_021160.1	Ca_Kabuli_Chr01	22897113	AA	GG	GG	INTERGENIC			
SNP_2398_A_22897129	NC_021160.1	Ca_Kabuli_Chr01	22897129	GG	AA	AA	INTERGENIC			
SNP_2399_A_22897143	NC_021160.1	Ca_Kabuli_Chr01	22897143	GG	CC	CC	INTERGENIC			
SNP_2400_A_22897164	NC_021160.1	Ca_Kabuli_Chr01	22897164	CC	AA	AA	INTERGENIC			
SNP_2401_A_22897196	NC_021160.1	Ca_Kabuli_Chr01	22897196	TT	CC	CC	INTERGENIC			
SNP_2402_A_22897222	NC_021160.1	Ca_Kabuli_Chr01	22897222	CC	GG	GG	INTERGENIC			
SNP_2403_A_22897393	NC_021160.1	Ca_Kabuli_Chr01	22897393	AA	TT	TT	INTERGENIC			
SNP_2404_A_22897398	NC_021160.1	Ca_Kabuli_Chr01	22897398	GG	AA	AA	INTERGENIC			
SNP_2405_A_22897462	NC_021160.1	Ca_Kabuli_Chr01	22897462	CC	TT	TT	INTERGENIC			
SNP_2406_A_22897719	NC_021160.1	Ca_Kabuli_Chr01	22897719	TT	GG	GG	INTERGENIC			
SNP_2407_A_22906068	NC_021160.1	Ca_Kabuli_Chr01	22906068	CC	TT	TT	INTERGENIC			
SNP_2408_A_22943723	NC_021160.1	Ca_Kabuli_Chr01	22943723	CC	GG	GG	INTERGENIC			
SNP_2409_A_22943735	NC_021160.1	Ca_Kabuli_Chr01	22943735	TT	GG	GG	INTERGENIC			
SNP_2411_A_22944208	NC_021160.1	Ca_Kabuli_Chr01	22944208	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2412_A_22944221	NC_021160.1	Ca_Kabuli_Chr01	22944221	GG	CC	CC	INTERGENIC			
SNP_2413_A_22963769	NC_021160.1	Ca_Kabuli_Chr01	22963769	CC	TT	TT	INTERGENIC			
SNP_2414_A_22971265	NC_021160.1	Ca_Kabuli_Chr01	22971265	TT	CC	CC	INTERGENIC			
SNP_2415_A_22992303	NC_021160.1	Ca_Kabuli_Chr01	22992303	GG	TT	TT	INTERGENIC			
SNP_2416_A_23005996	NC_021160.1	Ca_Kabuli_Chr01	23005996	GG	AA	AA	INTERGENIC			
SNP_2417_A_23006480	NC_021160.1	Ca_Kabuli_Chr01	23006480	GG	AA	AA	INTERGENIC			
SNP_2418_A_23007228	NC_021160.1	Ca_Kabuli_Chr01	23007228	TT	GG	GG	INTERGENIC			
SNP_2419_A_23011673	NC_021160.1	Ca_Kabuli_Chr01	23011673	AA	GG	GG	INTERGENIC			
SNP_2420_A_23037969	NC_021160.1	Ca_Kabuli_Chr01	23037969	GG	AA	AA	INTERGENIC			
SNP_2421_A_23058281	NC_021160.1	Ca_Kabuli_Chr01	23058281	AA	TT	TT	INTERGENIC			
SNP_2422_A_23079034	NC_021160.1	Ca_Kabuli_Chr01	23079034	CC	TT	TT	INTERGENIC			
SNP_2423_A_23081166	NC_021160.1	Ca_Kabuli_Chr01	23081166	CC	TT	TT	INTERGENIC			
SNP_2424_A_23087877	NC_021160.1	Ca_Kabuli_Chr01	23087877	GG	CC	CC	INTERGENIC			
SNP_2425_A_23087966	NC_021160.1	Ca_Kabuli_Chr01	23087966	TT	CC	CC	INTERGENIC			
SNP_2426_A_23087987	NC_021160.1	Ca_Kabuli_Chr01	23087987	TT	CC	CC	INTERGENIC			
SNP_2427_A_23106643	NC_021160.1	Ca_Kabuli_Chr01	23106643	TT	CC	CC	INTERGENIC			
SNP_2428_A_23144997	NC_021160.1	Ca_Kabuli_Chr01	23144997	TT	CC	CC	INTERGENIC			
SNP_2429_A_23167910	NC_021160.1	Ca_Kabuli_Chr01	23167910	AA	GG	GG	INTERGENIC			
SNP_2430_A_23183689	NC_021160.1	Ca_Kabuli_Chr01	23183689	TT	CC	CC	INTERGENIC			
SNP_2432_A_23206931	NC_021160.1	Ca_Kabuli_Chr01	23206931	TT	CC	CC	INTERGENIC			
SNP_2433_A_23215975	NC_021160.1	Ca_Kabuli_Chr01	23215975	CC	TT	TT	INTERGENIC			
SNP_2434_A_23250577	NC_021160.1	Ca_Kabuli_Chr01	23250577	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2435_A_23270236	NC_021160.1	Ca_Kabuli_Chr01	23270236	AA	GG	GG	INTERGENIC		
SNP_2436_A_23363088	NC_021160.1	Ca_Kabuli_Chr01	23363088	AA	GG	GG	INTERGENIC		
SNP_2437_A_23363090	NC_021160.1	Ca_Kabuli_Chr01	23363090	AA	GG	GG	INTERGENIC		
SNP_2439_A_23421052	NC_021160.1	Ca_Kabuli_Chr01	23421052	TT	AA	AA	INTERGENIC		
SNP_2440_A_23426167	NC_021160.1	Ca_Kabuli_Chr01	23426167	TT	AA	AA	INTERGENIC		
SNP_2441_A_23426452	NC_021160.1	Ca_Kabuli_Chr01	23426452	CC	TT	TT	INTERGENIC		
SNP_2442_A_23426725	NC_021160.1	Ca_Kabuli_Chr01	23426725	TT	CC	CC	INTERGENIC		
SNP_2443_A_23427002	NC_021160.1	Ca_Kabuli_Chr01	23427002	CC	TT	TT	INTERGENIC		
SNP_2444_A_23446222	NC_021160.1	Ca_Kabuli_Chr01	23446222	AA	GG	GG	INTERGENIC		
SNP_2448_A_23580360	NC_021160.1	Ca_Kabuli_Chr01	23580360	TT	CC	CC	URR	101503007	uncharacterized LOC101503007
SNP_2449_A_23630879	NC_021160.1	Ca_Kabuli_Chr01	23630879	AA	GG	GG	INTERGENIC		
SNP_2450_A_23643816	NC_021160.1	Ca_Kabuli_Chr01	23643816	CC	GG	GG	INTERGENIC		
SNP_2451_A_23643868	NC_021160.1	Ca_Kabuli_Chr01	23643868	TT	AA	AA	INTERGENIC		
SNP_2452_A_23643871	NC_021160.1	Ca_Kabuli_Chr01	23643871	TT	CC	CC	INTERGENIC		
SNP_2453_A_23643873	NC_021160.1	Ca_Kabuli_Chr01	23643873	TT	AA	AA	INTERGENIC		
SNP_2454_A_23653897	NC_021160.1	Ca_Kabuli_Chr01	23653897	TT	AA	AA	INTERGENIC		
SNP_2455_A_23654286	NC_021160.1	Ca_Kabuli_Chr01	23654286	CC	TT	TT	INTERGENIC		
SNP_2456_A_23654306	NC_021160.1	Ca_Kabuli_Chr01	23654306	TT	CC	CC	INTERGENIC		
SNP_2457_A_23654331	NC_021160.1	Ca_Kabuli_Chr01	23654331	TT	CC	CC	INTERGENIC		
SNP_2458_A_23654338	NC_021160.1	Ca_Kabuli_Chr01	23654338	TT	GG	GG	INTERGENIC		
SNP_2459_A_23659173	NC_021160.1	Ca_Kabuli_Chr01	23659173	GG	AA	AA	INTERGENIC		
SNP_2460_A_23697682	NC_021160.1	Ca_Kabuli_Chr01	23697682	CC	TT	TT	INTERGENIC		

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SNP_2461_A_23707079	NC_021160.1	Ca_Kabuli_Chr01	23707079	TT	CC	CC	INTERGENIC			
SNP_2462_A_23720983	NC_021160.1	Ca_Kabuli_Chr01	23720983	AA	CC	CC	INTERGENIC			
SNP_2463_A_23721196	NC_021160.1	Ca_Kabuli_Chr01	23721196	TT	CC	CC	INTERGENIC			
SNP_2464_A_23721197	NC_021160.1	Ca_Kabuli_Chr01	23721197	TT	AA	AA	INTERGENIC			
SNP_2465_A_23722450	NC_021160.1	Ca_Kabuli_Chr01	23722450	TT	GG	GG	INTERGENIC			
SNP_2466_A_23722738	NC_021160.1	Ca_Kabuli_Chr01	23722738	GG	TT	TT	INTERGENIC			
SNP_2467_A_23722746	NC_021160.1	Ca_Kabuli_Chr01	23722746	GG	CC	CC	INTERGENIC			
SNP_2468_A_23748032	NC_021160.1	Ca_Kabuli_Chr01	23748032	AA	GG	GG	INTERGENIC			
SNP_2469_A_23755516	NC_021160.1	Ca_Kabuli_Chr01	23755516	CC	TT	TT	INTERGENIC			
SNP_2470_A_23782421	NC_021160.1	Ca_Kabuli_Chr01	23782421	AA	GG	GG	INTERGENIC			
SNP_2471_A_23782439	NC_021160.1	Ca_Kabuli_Chr01	23782439	TT	CC	CC	INTERGENIC			
SNP_2472_A_23782451	NC_021160.1	Ca_Kabuli_Chr01	23782451	TT	CC	CC	INTERGENIC			
SNP_2473_A_23782467	NC_021160.1	Ca_Kabuli_Chr01	23782467	TT	GG	GG	INTERGENIC			
SNP_2474_A_23784928	NC_021160.1	Ca_Kabuli_Chr01	23784928	GG	AA	AA	INTERGENIC			
SNP_2476_A_23784996	NC_021160.1	Ca_Kabuli_Chr01	23784996	GG	AA	AA	INTERGENIC			
SNP_2477_A_23785030	NC_021160.1	Ca_Kabuli_Chr01	23785030	GG	CC	CC	INTERGENIC			
SNP_2478_A_23804661	NC_021160.1	Ca_Kabuli_Chr01	23804661	GG	AA	AA	INTERGENIC			
SNP_2479_A_23823272	NC_021160.1	Ca_Kabuli_Chr01	23823272	CC	GG	GG	INTRON	id18672	Unknown function	
SNP_2480_A_23823286	NC_021160.1	Ca_Kabuli_Chr01	23823286	TT	CC	CC	INTRON	id18672	Unknown function	
SNP_2481_A_23823296	NC_021160.1	Ca_Kabuli_Chr01	23823296	GG	CC	CC	INTRON	id18672	Unknown function	
SNP_2482_A_23823316	NC_021160.1	Ca_Kabuli_Chr01	23823316	AA	GG	GG	INTRON	id18672	Unknown function	
SNP_2483_A_23824100	NC_021160.1	Ca_Kabuli_Chr01	23824100	TT	GG	GG	INTRON	id18672	Unknown function	

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SNP_2484_A_23838600	NC_021160.1	Ca_Kabuli_Chr01	23838600	TT	CC	CC	INTERGENIC		
SNP_2488_A_23876941	NC_021160.1	Ca_Kabuli_Chr01	23876941	CC	GG	GG	URR	101496910	ethylene-responsive transcription factor ERF017-like
SNP_2489_A_23962578	NC_021160.1	Ca_Kabuli_Chr01	23962578	AA	CC	CC	INTERGENIC		
SNP_2490_A_23966400	NC_021160.1	Ca_Kabuli_Chr01	23966400	CC	TT	TT	INTERGENIC		
SNP_2491_A_23966406	NC_021160.1	Ca_Kabuli_Chr01	23966406	CC	TT	TT	INTERGENIC		
SNP_2492_A_23966471	NC_021160.1	Ca_Kabuli_Chr01	23966471	AA	GG	GG	INTERGENIC		
SNP_2493_A_23966748	NC_021160.1	Ca_Kabuli_Chr01	23966748	CC	TT	TT	INTERGENIC		
SNP_2495_A_24025269	NC_021160.1	Ca_Kabuli_Chr01	24025269	TT	CC	CC	INTERGENIC		
SNP_2496_A_24026714	NC_021160.1	Ca_Kabuli_Chr01	24026714	CC	AA	AA	INTERGENIC		
SNP_2497_A_24030435	NC_021160.1	Ca_Kabuli_Chr01	24030435	GG	CC	CC	INTERGENIC		
SNP_2499_A_24030538	NC_021160.1	Ca_Kabuli_Chr01	24030538	TT	GG	GG	INTERGENIC		
SNP_2500_A_24030577	NC_021160.1	Ca_Kabuli_Chr01	24030577	CC	TT	TT	INTERGENIC		
SNP_2501_A_24030796	NC_021160.1	Ca_Kabuli_Chr01	24030796	CC	TT	TT	INTERGENIC		
SNP_2502_A_24031098	NC_021160.1	Ca_Kabuli_Chr01	24031098	AA	GG	GG	INTERGENIC		
SNP_2503_A_24031141	NC_021160.1	Ca_Kabuli_Chr01	24031141	CC	TT	TT	INTERGENIC		
SNP_2504_A_24031144	NC_021160.1	Ca_Kabuli_Chr01	24031144	TT	CC	CC	INTERGENIC		
SNP_2505_A_24031378	NC_021160.1	Ca_Kabuli_Chr01	24031378	AA	GG	GG	INTERGENIC		
SNP_2506_A_24035057	NC_021160.1	Ca_Kabuli_Chr01	24035057	AA	TT	TT	INTERGENIC		
SNP_2507_A_24035417	NC_021160.1	Ca_Kabuli_Chr01	24035417	AA	GG	GG	INTERGENIC		
SNP_2508_A_24035478	NC_021160.1	Ca_Kabuli_Chr01	24035478	AA	GG	GG	INTERGENIC		
SNP_2509_A_24035483	NC_021160.1	Ca_Kabuli_Chr01	24035483	TT	CC	CC	INTERGENIC		
SNP_2510_A_24035488	NC_021160.1	Ca_Kabuli_Chr01	24035488	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2511_A_24035503	NC_021160.1	Ca_Kabuli_Chr01	24035503	CC	GG	GG	INTERGENIC			
SNP_2512_A_24035508	NC_021160.1	Ca_Kabuli_Chr01	24035508	CC	TT	TT	INTERGENIC			
SNP_2513_A_24035521	NC_021160.1	Ca_Kabuli_Chr01	24035521	AA	CC	CC	INTERGENIC			
SNP_2514_A_24035609	NC_021160.1	Ca_Kabuli_Chr01	24035609	AA	TT	TT	INTERGENIC			
SNP_2515_A_24035676	NC_021160.1	Ca_Kabuli_Chr01	24035676	TT	CC	CC	INTERGENIC			
SNP_2516_A_24082724	NC_021160.1	Ca_Kabuli_Chr01	24082724	TT	CC	CC	INTERGENIC			
SNP_2518_A_24113340	NC_021160.1	Ca_Kabuli_Chr01	24113340	AA	GG	GG	INTERGENIC			
SNP_2519_A_24147430	NC_021160.1	Ca_Kabuli_Chr01	24147430	CC	TT	TT	INTERGENIC			
SNP_2521_A_24194303	NC_021160.1	Ca_Kabuli_Chr01	24194303	AA	GG	GG	INTERGENIC			
SNP_2522_A_24194394	NC_021160.1	Ca_Kabuli_Chr01	24194394	TT	GG	GG	INTERGENIC			
SNP_2523_A_24194399	NC_021160.1	Ca_Kabuli_Chr01	24194399	CC	TT	TT	INTERGENIC			
SNP_2524_A_24194706	NC_021160.1	Ca_Kabuli_Chr01	24194706	AA	CC	CC	INTERGENIC			
SNP_2525_A_24194751	NC_021160.1	Ca_Kabuli_Chr01	24194751	TT	CC	CC	INTERGENIC			
SNP_2526_A_24194761	NC_021160.1	Ca_Kabuli_Chr01	24194761	AA	GG	GG	INTERGENIC			
SNP_2528_A_24256222	NC_021160.1	Ca_Kabuli_Chr01	24256222	AA	CC	CC	INTERGENIC			
SNP_2529_A_24294815	NC_021160.1	Ca_Kabuli_Chr01	24294815	CC	TT	TT	INTERGENIC			
SNP_2530_A_24294832	NC_021160.1	Ca_Kabuli_Chr01	24294832	TT	GG	GG	INTERGENIC			
SNP_2531_A_24305536	NC_021160.1	Ca_Kabuli_Chr01	24305536	TT	CC	CC	INTERGENIC			
SNP_2532_A_24331330	NC_021160.1	Ca_Kabuli_Chr01	24331330	TT	CC	CC	INTERGENIC			
SNP_2533_A_24331349	NC_021160.1	Ca_Kabuli_Chr01	24331349	TT	CC	CC	INTERGENIC			
SNP_2534_A_24331376	NC_021160.1	Ca_Kabuli_Chr01	24331376	AA	GG	GG	INTERGENIC			
SNP_2535_A_24331583	NC_021160.1	Ca_Kabuli_Chr01	24331583	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2536_A_24331593	NC_021160.1	Ca_Kabuli_Chr01	24331593	GG	AA	AA	INTERGENIC			
SNP_2537_A_24388437	NC_021160.1	Ca_Kabuli_Chr01	24388437	GG	AA	AA	INTERGENIC			
SNP_2538_A_24405943	NC_021160.1	Ca_Kabuli_Chr01	24405943	CC	TT	TT	INTERGENIC			
SNP_2539_A_24405945	NC_021160.1	Ca_Kabuli_Chr01	24405945	TT	CC	CC	INTERGENIC			
SNP_2540_A_24474539	NC_021160.1	Ca_Kabuli_Chr01	24474539	TT	GG	GG	INTERGENIC			
SNP_2541_A_24502323	NC_021160.1	Ca_Kabuli_Chr01	24502323	TT	CC	CC	INTRON	101507755		sterol 3-beta-glucosyltransferase UGT80A2
SNP_2542_A_24522080	NC_021160.1	Ca_Kabuli_Chr01	24522080	CC	TT	TT	INTERGENIC			
SNP_2543_A_24543871	NC_021160.1	Ca_Kabuli_Chr01	24543871	TT	GG	GG	INTERGENIC			
SNP_2544_A_24592227	NC_021160.1	Ca_Kabuli_Chr01	24592227	AA	GG	GG	INTERGENIC			
SNP_2545_A_24592252	NC_021160.1	Ca_Kabuli_Chr01	24592252	AA	TT	TT	INTERGENIC			
SNP_2546_A_24607540	NC_021160.1	Ca_Kabuli_Chr01	24607540	TT	CC	CC	INTERGENIC			
SNP_2547_A_24607544	NC_021160.1	Ca_Kabuli_Chr01	24607544	AA	TT	TT	INTERGENIC			
SNP_2548_A_24607546	NC_021160.1	Ca_Kabuli_Chr01	24607546	AA	GG	GG	INTERGENIC			
SNP_2550_A_24629988	NC_021160.1	Ca_Kabuli_Chr01	24629988	AA	CC	CC	INTERGENIC			
SNP_2551_A_24634696	NC_021160.1	Ca_Kabuli_Chr01	24634696	CC	AA	AA	INTERGENIC			
SNP_2552_A_24778301	NC_021160.1	Ca_Kabuli_Chr01	24778301	TT	GG	GG	INTERGENIC			
SNP_2553_A_24778303	NC_021160.1	Ca_Kabuli_Chr01	24778303	TT	AA	AA	INTERGENIC			
SNP_2554_A_24850715	NC_021160.1	Ca_Kabuli_Chr01	24850715	CC	TT	TT	INTERGENIC			
SNP_2555_A_24916365	NC_021160.1	Ca_Kabuli_Chr01	24916365	TT	GG	GG	INTERGENIC			
SNP_2556_A_24932901	NC_021160.1	Ca_Kabuli_Chr01	24932901	AA	GG	GG	INTERGENIC			
SNP_2557_A_25014520	NC_021160.1	Ca_Kabuli_Chr01	25014520	AA	GG	GG	INTERGENIC			
SNP_2558_A_25037706	NC_021160.1	Ca_Kabuli_Chr01	25037706	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2559_A_25058069	NC_021160.1	Ca_Kabuli_Chr01	25058069	GG	AA	AA	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2560_A_25058117	NC_021160.1	Ca_Kabuli_Chr01	25058117	GG	AA	AA	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2561_A_25058248	NC_021160.1	Ca_Kabuli_Chr01	25058248	AA	GG	GG	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2562_A_25058249	NC_021160.1	Ca_Kabuli_Chr01	25058249	AA	GG	GG	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2564_A_25058332	NC_021160.1	Ca_Kabuli_Chr01	25058332	AA	GG	GG	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2565_A_25058362	NC_021160.1	Ca_Kabuli_Chr01	25058362	AA	CC	CC	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2566_A_25058373	NC_021160.1	Ca_Kabuli_Chr01	25058373	TT	AA	AA	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2567_A_25058473	NC_021160.1	Ca_Kabuli_Chr01	25058473	AA	GG	GG	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2568_A_25058475	NC_021160.1	Ca_Kabuli_Chr01	25058475	AA	TT	TT	INTRON	101494944	pectinesterase/pectinesterase inhibitor PPE8B-like
SNP_2569_A_25209678	NC_021160.1	Ca_Kabuli_Chr01	25209678	TT	CC	CC	INTERGENIC		
SNP_2570_A_25209980	NC_021160.1	Ca_Kabuli_Chr01	25209980	GG	TT	TT	INTERGENIC		
SNP_2571_A_25233425	NC_021160.1	Ca_Kabuli_Chr01	25233425	AA	GG	GG	INTERGENIC		
SNP_2572_A_25234184	NC_021160.1	Ca_Kabuli_Chr01	25234184	TT	CC	CC	INTERGENIC		
SNP_2573_A_25234279	NC_021160.1	Ca_Kabuli_Chr01	25234279	TT	CC	CC	INTERGENIC		
SNP_2574_A_25234352	NC_021160.1	Ca_Kabuli_Chr01	25234352	GG	AA	AA	INTERGENIC		
SNP_2575_A_25250231	NC_021160.1	Ca_Kabuli_Chr01	25250231	TT	AA	AA	INTERGENIC		
SNP_2576_A_25250337	NC_021160.1	Ca_Kabuli_Chr01	25250337	GG	AA	AA	INTERGENIC		
SNP_2577_A_25283905	NC_021160.1	Ca_Kabuli_Chr01	25283905	AA	GG	GG	INTERGENIC		
SNP_2578_A_25296114	NC_021160.1	Ca_Kabuli_Chr01	25296114	TT	CC	CC	INTERGENIC		
SNP_2579_A_25296398	NC_021160.1	Ca_Kabuli_Chr01	25296398	TT	GG	GG	INTERGENIC		
SNP_2580_A_25296409	NC_021160.1	Ca_Kabuli_Chr01	25296409	CC	TT	TT	INTERGENIC		
SNP_2581_A_25296532	NC_021160.1	Ca_Kabuli_Chr01	25296532	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2582_A_25312617	NC_021160.1	Ca_Kabuli_Chr01	25312617	TT	GG	GG	INTERGENIC			
SNP_2583_A_25353631	NC_021160.1	Ca_Kabuli_Chr01	25353631	AA	TT	TT	INTERGENIC			
SNP_2584_A_25373788	NC_021160.1	Ca_Kabuli_Chr01	25373788	GG	TT	TT	INTERGENIC			
SNP_2585_A_25373824	NC_021160.1	Ca_Kabuli_Chr01	25373824	AA	GG	GG	INTERGENIC			
SNP_2586_A_25374026	NC_021160.1	Ca_Kabuli_Chr01	25374026	GG	TT	TT	INTERGENIC			
SNP_2587_A_25380923	NC_021160.1	Ca_Kabuli_Chr01	25380923	CC	AA	AA	INTERGENIC			
SNP_2588_A_25381737	NC_021160.1	Ca_Kabuli_Chr01	25381737	CC	TT	TT	INTERGENIC			
SNP_2589_A_25381860	NC_021160.1	Ca_Kabuli_Chr01	25381860	TT	CC	CC	INTERGENIC			
SNP_2591_A_25382445	NC_021160.1	Ca_Kabuli_Chr01	25382445	GG	TT	TT	INTERGENIC			
SNP_2592_A_25382447	NC_021160.1	Ca_Kabuli_Chr01	25382447	TT	CC	CC	INTERGENIC			
SNP_2593_A_25429412	NC_021160.1	Ca_Kabuli_Chr01	25429412	TT	CC	CC	INTERGENIC			
SNP_2595_A_25461607	NC_021160.1	Ca_Kabuli_Chr01	25461607	AA	TT	TT	INTERGENIC			
SNP_2596_A_25461626	NC_021160.1	Ca_Kabuli_Chr01	25461626	GG	TT	TT	INTERGENIC			
SNP_2597_A_25507440	NC_021160.1	Ca_Kabuli_Chr01	25507440	CC	AA	AA	INTERGENIC			
SNP_2600_A_25571921	NC_021160.1	Ca_Kabuli_Chr01	25571921	CC	TT	TT	INTERGENIC			
SNP_2601_A_25571924	NC_021160.1	Ca_Kabuli_Chr01	25571924	GG	AA	AA	INTERGENIC			
SNP_2602_A_25571968	NC_021160.1	Ca_Kabuli_Chr01	25571968	AA	GG	GG	INTERGENIC			
SNP_2603_A_25572027	NC_021160.1	Ca_Kabuli_Chr01	25572027	AA	GG	GG	INTERGENIC			
SNP_2604_A_25575174	NC_021160.1	Ca_Kabuli_Chr01	25575174	TT	GG	GG	INTERGENIC			
SNP_2605_A_25590389	NC_021160.1	Ca_Kabuli_Chr01	25590389	GG	TT	TT	INTERGENIC			
SNP_2606_A_25612830	NC_021160.1	Ca_Kabuli_Chr01	25612830	TT	AA	AA	INTERGENIC			
SNP_2607_A_25612893	NC_021160.1	Ca_Kabuli_Chr01	25612893	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2608_A_25613107	NC_021160.1	Ca_Kabuli_Chr01	25613107	AA	GG	GG	INTERGENIC			
SNP_2609_A_25613205	NC_021160.1	Ca_Kabuli_Chr01	25613205	AA	CC	CC	INTERGENIC			
SNP_2611_A_25693933	NC_021160.1	Ca_Kabuli_Chr01	25693933	AA	GG	GG	INTERGENIC			
SNP_2612_A_25693936	NC_021160.1	Ca_Kabuli_Chr01	25693936	GG	TT	TT	INTERGENIC			
SNP_2613_A_25693960	NC_021160.1	Ca_Kabuli_Chr01	25693960	AA	GG	GG	INTERGENIC			
SNP_2614_A_25693961	NC_021160.1	Ca_Kabuli_Chr01	25693961	GG	AA	AA	INTERGENIC			
SNP_2615_A_25693968	NC_021160.1	Ca_Kabuli_Chr01	25693968	TT	GG	GG	INTERGENIC			
SNP_2616_A_25693986	NC_021160.1	Ca_Kabuli_Chr01	25693986	CC	AA	AA	INTERGENIC			
SNP_2617_A_25693987	NC_021160.1	Ca_Kabuli_Chr01	25693987	TT	CC	CC	INTERGENIC			
SNP_2618_A_25720536	NC_021160.1	Ca_Kabuli_Chr01	25720536	TT	CC	CC	INTERGENIC			
SNP_2619_A_25769069	NC_021160.1	Ca_Kabuli_Chr01	25769069	TT	CC	CC	INTERGENIC			
SNP_2620_A_25774824	NC_021160.1	Ca_Kabuli_Chr01	25774824	TT	CC	CC	INTERGENIC			
SNP_2621_A_25774825	NC_021160.1	Ca_Kabuli_Chr01	25774825	TT	AA	AA	INTERGENIC			
SNP_2622_A_25774829	NC_021160.1	Ca_Kabuli_Chr01	25774829	TT	AA	AA	INTERGENIC			
SNP_2623_A_25786513	NC_021160.1	Ca_Kabuli_Chr01	25786513	GG	AA	AA	INTERGENIC			
SNP_2624_A_25786531	NC_021160.1	Ca_Kabuli_Chr01	25786531	CC	GG	GG	INTERGENIC			
SNP_2625_A_25786534	NC_021160.1	Ca_Kabuli_Chr01	25786534	TT	AA	AA	INTERGENIC			
SNP_2626_A_25796122	NC_021160.1	Ca_Kabuli_Chr01	25796122	GG	AA	AA	INTERGENIC			
SNP_2627_A_25802448	NC_021160.1	Ca_Kabuli_Chr01	25802448	GG	AA	AA	INTERGENIC			
SNP_2628_A_25802460	NC_021160.1	Ca_Kabuli_Chr01	25802460	GG	AA	AA	INTERGENIC			
SNP_2629_A_25802461	NC_021160.1	Ca_Kabuli_Chr01	25802461	AA	GG	GG	INTERGENIC			
SNP_2630_A_25806142	NC_021160.1	Ca_Kabuli_Chr01	25806142	GG	AA	AA	DRR	101501107	novel plant SNARE 13-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2631_A_25824861	NC_021160.1	Ca_Kabuli_Chr01	25824861	TT	GG	GG	INTERGENIC			
SNP_2632_A_25824956	NC_021160.1	Ca_Kabuli_Chr01	25824956	TT	CC	CC	INTERGENIC			
SNP_2633_A_25824984	NC_021160.1	Ca_Kabuli_Chr01	25824984	GG	TT	TT	INTERGENIC			
SNP_2634_A_25825009	NC_021160.1	Ca_Kabuli_Chr01	25825009	TT	GG	GG	INTERGENIC			
SNP_2635_A_25825037	NC_021160.1	Ca_Kabuli_Chr01	25825037	CC	TT	TT	INTERGENIC			
SNP_2636_A_25825062	NC_021160.1	Ca_Kabuli_Chr01	25825062	AA	GG	GG	INTERGENIC			
SNP_2637_A_25829030	NC_021160.1	Ca_Kabuli_Chr01	25829030	TT	AA	AA	INTERGENIC			
SNP_2638_A_25832940	NC_021160.1	Ca_Kabuli_Chr01	25832940	TT	CC	CC	INTERGENIC			
SNP_2639_A_25832941	NC_021160.1	Ca_Kabuli_Chr01	25832941	TT	GG	GG	INTERGENIC			
SNP_2640_A_25837497	NC_021160.1	Ca_Kabuli_Chr01	25837497	TT	CC	CC	INTERGENIC			
SNP_2641_A_25837634	NC_021160.1	Ca_Kabuli_Chr01	25837634	AA	GG	GG	INTERGENIC			
SNP_2642_A_25837652	NC_021160.1	Ca_Kabuli_Chr01	25837652	TT	CC	CC	INTERGENIC			
SNP_2643_A_25898798	NC_021160.1	Ca_Kabuli_Chr01	25898798	AA	TT	TT	INTERGENIC			
SNP_2644_A_25913633	NC_021160.1	Ca_Kabuli_Chr01	25913633	GG	AA	AA	INTERGENIC			
SNP_2645_A_25913651	NC_021160.1	Ca_Kabuli_Chr01	25913651	CC	AA	AA	INTERGENIC			
SNP_2646_A_26014195	NC_021160.1	Ca_Kabuli_Chr01	26014195	TT	AA	AA	INTERGENIC			
SNP_2647_A_26014210	NC_021160.1	Ca_Kabuli_Chr01	26014210	TT	CC	CC	INTERGENIC			
SNP_2648_A_26049366	NC_021160.1	Ca_Kabuli_Chr01	26049366	AA	TT	TT	INTERGENIC			
SNP_2649_A_26063598	NC_021160.1	Ca_Kabuli_Chr01	26063598	GG	AA	AA	INTERGENIC			
SNP_2650_A_26074517	NC_021160.1	Ca_Kabuli_Chr01	26074517	AA	GG	GG	INTRON		101509778	Unknown function
SNP_2651_A_26075262	NC_021160.1	Ca_Kabuli_Chr01	26075262	AA	GG	GG	INTRON		101509778	Unknown function
SNP_2652_A_26075501	NC_021160.1	Ca_Kabuli_Chr01	26075501	CC	TT	TT	INTRON		101509778	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2653_A_26075503	NC_021160.1	Ca_Kabuli_Chr01	26075503	TT	CC	CC	INTRON	101509778	Unknown function
SNP_2655_A_26077437	NC_021160.1	Ca_Kabuli_Chr01	26077437	AA	GG	GG	INTRON	101509778	Unknown function
SNP_2656_A_26077443	NC_021160.1	Ca_Kabuli_Chr01	26077443	GG	AA	AA	INTRON	101509778	Unknown function
SNP_2657_A_26077524	NC_021160.1	Ca_Kabuli_Chr01	26077524	TT	CC	CC	INTRON	101509778	Unknown function
SNP_2658_A_26085859	NC_021160.1	Ca_Kabuli_Chr01	26085859	CC	TT	TT	INTERGENIC		
SNP_2659_A_26091944	NC_021160.1	Ca_Kabuli_Chr01	26091944	GG	AA	AA	INTERGENIC		
SNP_2660_A_26108615	NC_021160.1	Ca_Kabuli_Chr01	26108615	CC	AA	AA	INTERGENIC		
SNP_2661_A_26125747	NC_021160.1	Ca_Kabuli_Chr01	26125747	AA	GG	GG	INTERGENIC		
SNP_2662_A_26125777	NC_021160.1	Ca_Kabuli_Chr01	26125777	GG	CC	CC	INTERGENIC		
SNP_2663_A_26125826	NC_021160.1	Ca_Kabuli_Chr01	26125826	TT	GG	GG	INTERGENIC		
SNP_2664_A_26125855	NC_021160.1	Ca_Kabuli_Chr01	26125855	AA	GG	GG	INTERGENIC		
SNP_2665_A_26125886	NC_021160.1	Ca_Kabuli_Chr01	26125886	AA	GG	GG	INTERGENIC		
SNP_2667_A_26142774	NC_021160.1	Ca_Kabuli_Chr01	26142774	AA	CC	CC	SYNONYMOUS_CODING	101504545	pentatricopeptide repeat-containing protein At2g44880-like
SNP_2668_A_26143694	NC_021160.1	Ca_Kabuli_Chr01	26143694	GG	AA	AA	URR	101504545	pentatricopeptide repeat-containing protein At2g44880-like
SNP_2669_A_26143696	NC_021160.1	Ca_Kabuli_Chr01	26143696	GG	AA	AA	URR	101504545	pentatricopeptide repeat-containing protein At2g44880-like
SNP_2670_A_26202344	NC_021160.1	Ca_Kabuli_Chr01	26202344	TT	CC	CC	INTERGENIC		
SNP_2671_A_26202942	NC_021160.1	Ca_Kabuli_Chr01	26202942	CC	TT	TT	INTERGENIC		
SNP_2673_A_26220810	NC_021160.1	Ca_Kabuli_Chr01	26220810	AA	GG	GG	INTERGENIC		
SNP_2674_A_26220815	NC_021160.1	Ca_Kabuli_Chr01	26220815	TT	AA	AA	INTERGENIC		
SNP_2675_A_26224039	NC_021160.1	Ca_Kabuli_Chr01	26224039	GG	AA	AA	INTERGENIC		
SNP_2676_A_26224106	NC_021160.1	Ca_Kabuli_Chr01	26224106	CC	TT	TT	INTERGENIC		
SNP_2677_A_26224154	NC_021160.1	Ca_Kabuli_Chr01	26224154	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2678_A_26230618	NC_021160.1	Ca_Kabuli_Chr01	26230618	TT	CC	CC	INTERGENIC			
SNP_2679_A_26245860	NC_021160.1	Ca_Kabuli_Chr01	26245860	TT	CC	CC	INTERGENIC			
SNP_2680_A_26245915	NC_021160.1	Ca_Kabuli_Chr01	26245915	TT	CC	CC	INTERGENIC			
SNP_2681_A_26245928	NC_021160.1	Ca_Kabuli_Chr01	26245928	GG	AA	AA	INTERGENIC			
SNP_2682_A_26246189	NC_021160.1	Ca_Kabuli_Chr01	26246189	CC	TT	TT	INTERGENIC			
SNP_2683_A_26246231	NC_021160.1	Ca_Kabuli_Chr01	26246231	AA	GG	GG	INTERGENIC			
SNP_2684_A_26246535	NC_021160.1	Ca_Kabuli_Chr01	26246535	GG	AA	AA	INTERGENIC			
SNP_2685_A_26246604	NC_021160.1	Ca_Kabuli_Chr01	26246604	TT	CC	CC	INTERGENIC			
SNP_2686_A_26246629	NC_021160.1	Ca_Kabuli_Chr01	26246629	GG	CC	CC	INTERGENIC			
SNP_2687_A_26246636	NC_021160.1	Ca_Kabuli_Chr01	26246636	AA	CC	CC	INTERGENIC			
SNP_2688_A_26246699	NC_021160.1	Ca_Kabuli_Chr01	26246699	TT	CC	CC	INTERGENIC			
SNP_2689_A_26246714	NC_021160.1	Ca_Kabuli_Chr01	26246714	TT	AA	AA	INTERGENIC			
SNP_2690_A_26247149	NC_021160.1	Ca_Kabuli_Chr01	26247149	CC	TT	TT	INTERGENIC			
SNP_2691_A_26247152	NC_021160.1	Ca_Kabuli_Chr01	26247152	AA	TT	TT	INTERGENIC			
SNP_2692_A_26247157	NC_021160.1	Ca_Kabuli_Chr01	26247157	TT	CC	CC	INTERGENIC			
SNP_2693_A_26247165	NC_021160.1	Ca_Kabuli_Chr01	26247165	GG	AA	AA	INTERGENIC			
SNP_2694_A_26252281	NC_021160.1	Ca_Kabuli_Chr01	26252281	AA	CC	CC	INTERGENIC			
SNP_2695_A_26259718	NC_021160.1	Ca_Kabuli_Chr01	26259718	TT	AA	AA	URR	101505172	anthocyanidin 3-O-glucosyltransferase 2-like	
SNP_2697_A_26264392	NC_021160.1	Ca_Kabuli_Chr01	26264392	AA	GG	GG	INTERGENIC			
SNP_2698_A_26291618	NC_021160.1	Ca_Kabuli_Chr01	26291618	AA	GG	GG	INTERGENIC			
SNP_2699_A_26291639	NC_021160.1	Ca_Kabuli_Chr01	26291639	GG	CC	CC	INTERGENIC			
SNP_2700_A_26291644	NC_021160.1	Ca_Kabuli_Chr01	26291644	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2701_A_26298196	NC_021160.1	Ca_Kabuli_Chr01	26298196	TT	CC	CC	INTERGENIC			
SNP_2702_A_26298198	NC_021160.1	Ca_Kabuli_Chr01	26298198	GG	AA	AA	INTERGENIC			
SNP_2703_A_26298211	NC_021160.1	Ca_Kabuli_Chr01	26298211	TT	AA	AA	INTERGENIC			
SNP_2704_A_26298217	NC_021160.1	Ca_Kabuli_Chr01	26298217	TT	GG	GG	INTERGENIC			
SNP_2705_A_26298223	NC_021160.1	Ca_Kabuli_Chr01	26298223	CC	TT	TT	INTERGENIC			
SNP_2706_A_26298226	NC_021160.1	Ca_Kabuli_Chr01	26298226	AA	TT	TT	INTERGENIC			
SNP_2707_A_26301931	NC_021160.1	Ca_Kabuli_Chr01	26301931	CC	TT	TT	INTERGENIC			
SNP_2708_A_26302138	NC_021160.1	Ca_Kabuli_Chr01	26302138	CC	TT	TT	INTERGENIC			
SNP_2709_A_26302144	NC_021160.1	Ca_Kabuli_Chr01	26302144	CC	GG	GG	INTERGENIC			
SNP_2710_A_26303196	NC_021160.1	Ca_Kabuli_Chr01	26303196	TT	CC	CC	INTERGENIC			
SNP_2711_A_26306039	NC_021160.1	Ca_Kabuli_Chr01	26306039	GG	AA	AA	NON_SYNONYMOUS_CODING	101510417	Unknown function	
SNP_2713_A_26309217	NC_021160.1	Ca_Kabuli_Chr01	26309217	GG	CC	CC	INTERGENIC			
SNP_2714_A_26309225	NC_021160.1	Ca_Kabuli_Chr01	26309225	TT	AA	AA	INTERGENIC			
SNP_2715_A_26309302	NC_021160.1	Ca_Kabuli_Chr01	26309302	TT	GG	GG	INTERGENIC			
SNP_2716_A_26309347	NC_021160.1	Ca_Kabuli_Chr01	26309347	AA	GG	GG	INTERGENIC			
SNP_2717_A_26309355	NC_021160.1	Ca_Kabuli_Chr01	26309355	CC	GG	GG	INTERGENIC			
SNP_2718_A_26325883	NC_021160.1	Ca_Kabuli_Chr01	26325883	TT	CC	CC	DRR	101505487	lysine histidine transporter 1-like	
SNP_2719_A_26331153	NC_021160.1	Ca_Kabuli_Chr01	26331153	AA	GG	GG	URR	101505487	lysine histidine transporter 1-like	
SNP_2721_A_26362603	NC_021160.1	Ca_Kabuli_Chr01	26362603	TT	CC	CC	INTERGENIC			
SNP_2722_A_26400057	NC_021160.1	Ca_Kabuli_Chr01	26400057	GG	AA	AA	INTERGENIC			
SNP_2723_A_26400092	NC_021160.1	Ca_Kabuli_Chr01	26400092	AA	GG	GG	INTERGENIC			
SNP_2724_A_26407562	NC_021160.1	Ca_Kabuli_Chr01	26407562	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2725_A_26538448	NC_021160.1	Ca_Kabuli_Chr01	26538448	CC	TT	TT	URR	101511708	Unknown function
SNP_2726_A_26570111	NC_021160.1	Ca_Kabuli_Chr01	26570111	CC	AA	AA	INTERGENIC		
SNP_2727_A_26570187	NC_021160.1	Ca_Kabuli_Chr01	26570187	CC	TT	TT	INTERGENIC		
SNP_2729_A_26592066	NC_021160.1	Ca_Kabuli_Chr01	26592066	GG	TT	TT	INTERGENIC		
SNP_2731_A_26656981	NC_021160.1	Ca_Kabuli_Chr01	26656981	AA	GG	GG	INTERGENIC		
SNP_2732_A_26657116	NC_021160.1	Ca_Kabuli_Chr01	26657116	AA	GG	GG	INTERGENIC		
SNP_2733_A_26660661	NC_021160.1	Ca_Kabuli_Chr01	26660661	CC	TT	TT	INTERGENIC		
SNP_2734_A_26683310	NC_021160.1	Ca_Kabuli_Chr01	26683310	TT	CC	CC	NON_SYNONYMOUS_CODING	101508496	Unknown function
SNP_2736_A_26710960	NC_021160.1	Ca_Kabuli_Chr01	26710960	CC	TT	TT	DRR	101513318	DDB1- and CUL4-associated factor 4
SNP_2738_A_26820177	NC_021160.1	Ca_Kabuli_Chr01	26820177	GG	CC	CC	URR	101488564	probable purine permease 4
SNP_2739_A_26864178	NC_021160.1	Ca_Kabuli_Chr01	26864178	TT	CC	CC	INTERGENIC		
SNP_2740_A_26864258	NC_021160.1	Ca_Kabuli_Chr01	26864258	TT	GG	GG	INTERGENIC		
SNP_2742_A_26868620	NC_021160.1	Ca_Kabuli_Chr01	26868620	AA	CC	CC	INTERGENIC		
SNP_2744_A_26939336	NC_021160.1	Ca_Kabuli_Chr01	26939336	TT	AA	AA	INTERGENIC		
SNP_2746_A_26997552	NC_021160.1	Ca_Kabuli_Chr01	26997552	GG	AA	AA	INTERGENIC		
SNP_2747_A_27000965	NC_021160.1	Ca_Kabuli_Chr01	27000965	CC	TT	TT	INTERGENIC		
SNP_2748_A_27034560	NC_021160.1	Ca_Kabuli_Chr01	27034560	TT	AA	AA	INTERGENIC		
SNP_2749_A_27039048	NC_021160.1	Ca_Kabuli_Chr01	27039048	CC	TT	TT	INTERGENIC		
SNP_2750_A_27058978	NC_021160.1	Ca_Kabuli_Chr01	27058978	AA	CC	CC	URR	101491710	uncharacterized LOC101491710
SNP_2751_A_27059202	NC_021160.1	Ca_Kabuli_Chr01	27059202	TT	GG	GG	URR	101491710	uncharacterized LOC101491710
SNP_2752_A_27059448	NC_021160.1	Ca_Kabuli_Chr01	27059448	TT	AA	AA	URR	101491710	uncharacterized LOC101491710
SNP_2753_A_27073573	NC_021160.1	Ca_Kabuli_Chr01	27073573	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2754_A_27103668	NC_021160.1	Ca_Kabuli_Chr01	27103668	GG	AA	AA	URR	101493462	uncharacterized LOC101493462
SNP_2755_A_27107180	NC_021160.1	Ca_Kabuli_Chr01	27107180	AA	GG	GG	INTERGENIC		
SNP_2756_A_27107189	NC_021160.1	Ca_Kabuli_Chr01	27107189	AA	TT	TT	INTERGENIC		
SNP_2757_A_27107208	NC_021160.1	Ca_Kabuli_Chr01	27107208	GG	AA	AA	INTERGENIC		
SNP_2758_A_27107363	NC_021160.1	Ca_Kabuli_Chr01	27107363	GG	TT	TT	INTERGENIC		
SNP_2759_A_27118666	NC_021160.1	Ca_Kabuli_Chr01	27118666	CC	TT	TT	DRR	101494840	uncharacterized LOC101494840
SNP_2760_A_27126034	NC_021160.1	Ca_Kabuli_Chr01	27126034	GG	AA	AA	INTRON	101493784	uncharacterized LOC101493784
SNP_2761_A_27126100	NC_021160.1	Ca_Kabuli_Chr01	27126100	GG	AA	AA	INTRON	101493784	uncharacterized LOC101493784
SNP_2762_A_27126126	NC_021160.1	Ca_Kabuli_Chr01	27126126	AA	GG	GG	INTRON	101493784	uncharacterized LOC101493784
SNP_2763_A_27135175	NC_021160.1	Ca_Kabuli_Chr01	27135175	GG	CC	CC	URR	101494522	Unknown function
SNP_2764_A_27139918	NC_021160.1	Ca_Kabuli_Chr01	27139918	AA	TT	TT	URR	101493784	uncharacterized LOC101493784
SNP_2765_A_27139972	NC_021160.1	Ca_Kabuli_Chr01	27139972	TT	GG	GG	URR	101493784	uncharacterized LOC101493784
SNP_2766_A_27160411	NC_021160.1	Ca_Kabuli_Chr01	27160411	CC	AA	AA	INTERGENIC		
SNP_2767_A_27160445	NC_021160.1	Ca_Kabuli_Chr01	27160445	TT	CC	CC	INTERGENIC		
SNP_2768_A_27160710	NC_021160.1	Ca_Kabuli_Chr01	27160710	GG	AA	AA	INTERGENIC		
SNP_2769_A_27160730	NC_021160.1	Ca_Kabuli_Chr01	27160730	TT	CC	CC	INTERGENIC		
SNP_2770_A_27161988	NC_021160.1	Ca_Kabuli_Chr01	27161988	AA	TT	TT	INTERGENIC		
SNP_2771_A_27189103	NC_021160.1	Ca_Kabuli_Chr01	27189103	GG	AA	AA	INTERGENIC		
SNP_2772_A_27200564	NC_021160.1	Ca_Kabuli_Chr01	27200564	GG	AA	AA	INTERGENIC		
SNP_2773_A_27203799	NC_021160.1	Ca_Kabuli_Chr01	27203799	AA	GG	GG	INTERGENIC		
SNP_2774_A_27226169	NC_021160.1	Ca_Kabuli_Chr01	27226169	AA	GG	GG	INTERGENIC		
SNP_2775_A_27226196	NC_021160.1	Ca_Kabuli_Chr01	27226196	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2776_A_27232179	NC_021160.1	Ca_Kabuli_Chr01	27232179	CC	TT	TT	INTERGENIC			
SNP_2777_A_27254703	NC_021160.1	Ca_Kabuli_Chr01	27254703	AA	GG	GG	INTERGENIC			
SNP_2778_A_27254710	NC_021160.1	Ca_Kabuli_Chr01	27254710	TT	CC	CC	INTERGENIC			
SNP_2779_A_27254727	NC_021160.1	Ca_Kabuli_Chr01	27254727	AA	GG	GG	INTERGENIC			
SNP_2780_A_27254732	NC_021160.1	Ca_Kabuli_Chr01	27254732	TT	CC	CC	INTERGENIC			
SNP_2781_A_27263704	NC_021160.1	Ca_Kabuli_Chr01	27263704	AA	GG	GG	INTERGENIC			
SNP_2782_A_27263791	NC_021160.1	Ca_Kabuli_Chr01	27263791	CC	TT	TT	INTERGENIC			
SNP_2783_A_27263915	NC_021160.1	Ca_Kabuli_Chr01	27263915	TT	CC	CC	INTERGENIC			
SNP_2784_A_27263955	NC_021160.1	Ca_Kabuli_Chr01	27263955	AA	CC	CC	INTERGENIC			
SNP_2785_A_27263988	NC_021160.1	Ca_Kabuli_Chr01	27263988	TT	CC	CC	INTERGENIC			
SNP_2786_A_27264040	NC_021160.1	Ca_Kabuli_Chr01	27264040	AA	GG	GG	INTERGENIC			
SNP_2787_A_27264069	NC_021160.1	Ca_Kabuli_Chr01	27264069	AA	CC	CC	INTERGENIC			
SNP_2788_A_27264125	NC_021160.1	Ca_Kabuli_Chr01	27264125	TT	CC	CC	INTERGENIC			
SNP_2789_A_27282619	NC_021160.1	Ca_Kabuli_Chr01	27282619	AA	TT	TT	INTERGENIC			
SNP_2790_A_27282641	NC_021160.1	Ca_Kabuli_Chr01	27282641	TT	GG	GG	INTERGENIC			
SNP_2791_A_27282654	NC_021160.1	Ca_Kabuli_Chr01	27282654	AA	GG	GG	INTERGENIC			
SNP_2792_A_27282683	NC_021160.1	Ca_Kabuli_Chr01	27282683	TT	CC	CC	INTERGENIC			
SNP_2793_A_27282716	NC_021160.1	Ca_Kabuli_Chr01	27282716	CC	TT	TT	INTERGENIC			
SNP_2795_A_27282961	NC_021160.1	Ca_Kabuli_Chr01	27282961	CC	TT	TT	INTERGENIC			
SNP_2796_A_27282970	NC_021160.1	Ca_Kabuli_Chr01	27282970	AA	TT	TT	INTERGENIC			
SNP_2797_A_27292057	NC_021160.1	Ca_Kabuli_Chr01	27292057	GG	AA	AA	INTERGENIC			
SNP_2798_A_27292089	NC_021160.1	Ca_Kabuli_Chr01	27292089	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2799_A_27300848	NC_021160.1	Ca_Kabuli_Chr01	27300848	TT	CC	CC	INTERGENIC			
SNP_2800_A_27301072	NC_021160.1	Ca_Kabuli_Chr01	27301072	AA	GG	GG	INTERGENIC			
SNP_2801_A_27301079	NC_021160.1	Ca_Kabuli_Chr01	27301079	TT	CC	CC	INTERGENIC			
SNP_2802_A_27301390	NC_021160.1	Ca_Kabuli_Chr01	27301390	AA	GG	GG	INTERGENIC			
SNP_2803_A_27301438	NC_021160.1	Ca_Kabuli_Chr01	27301438	GG	TT	TT	INTERGENIC			
SNP_2804_A_27320006	NC_021160.1	Ca_Kabuli_Chr01	27320006	AA	GG	GG	INTERGENIC			
SNP_2805_A_27320641	NC_021160.1	Ca_Kabuli_Chr01	27320641	TT	CC	CC	INTERGENIC			
SNP_2806_A_27320650	NC_021160.1	Ca_Kabuli_Chr01	27320650	GG	AA	AA	INTERGENIC			
SNP_2807_A_27320987	NC_021160.1	Ca_Kabuli_Chr01	27320987	AA	GG	GG	INTERGENIC			
SNP_2808_A_27366182	NC_021160.1	Ca_Kabuli_Chr01	27366182	CC	AA	AA	INTERGENIC			
SNP_2809_A_27403500	NC_021160.1	Ca_Kabuli_Chr01	27403500	AA	CC	CC	INTERGENIC			
SNP_2810_A_27430057	NC_021160.1	Ca_Kabuli_Chr01	27430057	GG	TT	TT	INTERGENIC			
SNP_2811_A_27468660	NC_021160.1	Ca_Kabuli_Chr01	27468660	AA	GG	GG	NON_SYNONYMOUS_CODING	101501007		Unknown function
SNP_2812_A_27489981	NC_021160.1	Ca_Kabuli_Chr01	27489981	TT	CC	CC	INTERGENIC			
SNP_2813_A_27519595	NC_021160.1	Ca_Kabuli_Chr01	27519595	CC	TT	TT	INTERGENIC			
SNP_2814_A_27519596	NC_021160.1	Ca_Kabuli_Chr01	27519596	GG	AA	AA	INTERGENIC			
SNP_2815_A_27521200	NC_021160.1	Ca_Kabuli_Chr01	27521200	GG	AA	AA	INTERGENIC			
SNP_2816_A_27523314	NC_021160.1	Ca_Kabuli_Chr01	27523314	CC	TT	TT	INTERGENIC			
SNP_2817_A_27529186	NC_021160.1	Ca_Kabuli_Chr01	27529186	TT	GG	GG	INTERGENIC			
SNP_2818_A_27529205	NC_021160.1	Ca_Kabuli_Chr01	27529205	GG	AA	AA	INTERGENIC			
SNP_2819_A_27534551	NC_021160.1	Ca_Kabuli_Chr01	27534551	CC	TT	TT	INTERGENIC			
SNP_2820_A_27534555	NC_021160.1	Ca_Kabuli_Chr01	27534555	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2821_A_27597008	NC_021160.1	Ca_Kabuli_Chr01	27597008	GG	TT	TT	INTERGENIC			
SNP_2822_A_27597542	NC_021160.1	Ca_Kabuli_Chr01	27597542	GG	CC	CC	INTERGENIC			
SNP_2823_A_27597550	NC_021160.1	Ca_Kabuli_Chr01	27597550	TT	CC	CC	INTERGENIC			
SNP_2824_A_27617562	NC_021160.1	Ca_Kabuli_Chr01	27617562	GG	AA	AA	INTERGENIC			
SNP_2825_A_27637343	NC_021160.1	Ca_Kabuli_Chr01	27637343	TT	AA	AA	INTERGENIC			
SNP_2826_A_27637415	NC_021160.1	Ca_Kabuli_Chr01	27637415	GG	AA	AA	INTERGENIC			
SNP_2827_A_27637424	NC_021160.1	Ca_Kabuli_Chr01	27637424	TT	AA	AA	INTERGENIC			
SNP_2828_A_27637644	NC_021160.1	Ca_Kabuli_Chr01	27637644	TT	AA	AA	INTERGENIC			
SNP_2829_A_27637675	NC_021160.1	Ca_Kabuli_Chr01	27637675	TT	CC	CC	INTERGENIC			
SNP_2830_A_27665428	NC_021160.1	Ca_Kabuli_Chr01	27665428	AA	GG	GG	INTERGENIC			
SNP_2831_A_27668010	NC_021160.1	Ca_Kabuli_Chr01	27668010	AA	TT	TT	INTERGENIC			
SNP_2832_A_27689037	NC_021160.1	Ca_Kabuli_Chr01	27689037	GG	AA	AA	INTERGENIC			
SNP_2833_A_27689038	NC_021160.1	Ca_Kabuli_Chr01	27689038	TT	AA	AA	INTERGENIC			
SNP_2834_A_27689073	NC_021160.1	Ca_Kabuli_Chr01	27689073	GG	TT	TT	INTERGENIC			
SNP_2835_A_27689109	NC_021160.1	Ca_Kabuli_Chr01	27689109	CC	TT	TT	INTERGENIC			
SNP_2836_A_27689121	NC_021160.1	Ca_Kabuli_Chr01	27689121	CC	TT	TT	INTERGENIC			
SNP_2837_A_27689283	NC_021160.1	Ca_Kabuli_Chr01	27689283	AA	TT	TT	INTERGENIC			
SNP_2838_A_27689308	NC_021160.1	Ca_Kabuli_Chr01	27689308	AA	CC	CC	INTERGENIC			
SNP_2839_A_27689443	NC_021160.1	Ca_Kabuli_Chr01	27689443	TT	AA	AA	INTERGENIC			
SNP_2840_A_27689654	NC_021160.1	Ca_Kabuli_Chr01	27689654	TT	CC	CC	INTERGENIC			
SNP_2841_A_27719726	NC_021160.1	Ca_Kabuli_Chr01	27719726	AA	GG	GG	INTERGENIC			
SNP_2842_A_27772990	NC_021160.1	Ca_Kabuli_Chr01	27772990	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2843_A_27773061	NC_021160.1	Ca_Kabuli_Chr01	27773061	GG	AA	AA	INTERGENIC			
SNP_2844_A_27773141	NC_021160.1	Ca_Kabuli_Chr01	27773141	CC	TT	TT	INTERGENIC			
SNP_2845_A_27773147	NC_021160.1	Ca_Kabuli_Chr01	27773147	TT	CC	CC	INTERGENIC			
SNP_2846_A_27773318	NC_021160.1	Ca_Kabuli_Chr01	27773318	TT	CC	CC	INTERGENIC			
SNP_2847_A_27773686	NC_021160.1	Ca_Kabuli_Chr01	27773686	TT	AA	AA	INTERGENIC			
SNP_2848_A_27818999	NC_021160.1	Ca_Kabuli_Chr01	27818999	AA	TT	TT	INTERGENIC			
SNP_2849_A_27819057	NC_021160.1	Ca_Kabuli_Chr01	27819057	AA	CC	CC	INTERGENIC			
SNP_2850_A_27819248	NC_021160.1	Ca_Kabuli_Chr01	27819248	TT	CC	CC	INTERGENIC			
SNP_2851_A_27819303	NC_021160.1	Ca_Kabuli_Chr01	27819303	TT	CC	CC	INTERGENIC			
SNP_2852_A_27819896	NC_021160.1	Ca_Kabuli_Chr01	27819896	GG	CC	CC	INTERGENIC			
SNP_2853_A_27855795	NC_021160.1	Ca_Kabuli_Chr01	27855795	TT	GG	GG	INTERGENIC			
SNP_2854_A_27895706	NC_021160.1	Ca_Kabuli_Chr01	27895706	CC	TT	TT	INTERGENIC			
SNP_2855_A_27910226	NC_021160.1	Ca_Kabuli_Chr01	27910226	TT	AA	AA	INTERGENIC			
SNP_2856_A_27927473	NC_021160.1	Ca_Kabuli_Chr01	27927473	AA	TT	TT	INTERGENIC			
SNP_2857_A_27927475	NC_021160.1	Ca_Kabuli_Chr01	27927475	TT	AA	AA	INTERGENIC			
SNP_2858_A_27976219	NC_021160.1	Ca_Kabuli_Chr01	27976219	CC	TT	TT	INTERGENIC			
SNP_2859_A_27998371	NC_021160.1	Ca_Kabuli_Chr01	27998371	TT	CC	CC	INTERGENIC			
SNP_2860_A_27998387	NC_021160.1	Ca_Kabuli_Chr01	27998387	TT	CC	CC	INTERGENIC			
SNP_2861_A_28009886	NC_021160.1	Ca_Kabuli_Chr01	28009886	AA	CC	CC	DRR	101515602	Unknown function	
SNP_2862_A_28010557	NC_021160.1	Ca_Kabuli_Chr01	28010557	GG	AA	AA	INTERGENIC			
SNP_2863_A_28010612	NC_021160.1	Ca_Kabuli_Chr01	28010612	TT	CC	CC	INTERGENIC			
SNP_2864_A_28010626	NC_021160.1	Ca_Kabuli_Chr01	28010626	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2865_A_28010806	NC_021160.1	Ca_Kabuli_Chr01	28010806	GG	AA	AA	INTERGENIC			
SNP_2866_A_28010833	NC_021160.1	Ca_Kabuli_Chr01	28010833	TT	CC	CC	INTERGENIC			
SNP_2867_A_28011473	NC_021160.1	Ca_Kabuli_Chr01	28011473	AA	CC	CC	INTERGENIC			
SNP_2868_A_28044290	NC_021160.1	Ca_Kabuli_Chr01	28044290	AA	GG	GG	INTERGENIC			
SNP_2869_A_28044320	NC_021160.1	Ca_Kabuli_Chr01	28044320	CC	TT	TT	INTERGENIC			
SNP_2870_A_28057086	NC_021160.1	Ca_Kabuli_Chr01	28057086	AA	GG	GG	INTERGENIC			
SNP_2871_A_28058331	NC_021160.1	Ca_Kabuli_Chr01	28058331	AA	GG	GG	INTERGENIC			
SNP_2872_A_28058341	NC_021160.1	Ca_Kabuli_Chr01	28058341	CC	TT	TT	INTERGENIC			
SNP_2873_A_28095427	NC_021160.1	Ca_Kabuli_Chr01	28095427	TT	GG	GG	INTERGENIC			
SNP_2874_A_28095479	NC_021160.1	Ca_Kabuli_Chr01	28095479	AA	GG	GG	INTERGENIC			
SNP_2875_A_28096172	NC_021160.1	Ca_Kabuli_Chr01	28096172	GG	AA	AA	INTERGENIC			
SNP_2876_A_28096207	NC_021160.1	Ca_Kabuli_Chr01	28096207	AA	GG	GG	INTERGENIC			
SNP_2877_A_28096208	NC_021160.1	Ca_Kabuli_Chr01	28096208	AA	TT	TT	INTERGENIC			
SNP_2878_A_28096240	NC_021160.1	Ca_Kabuli_Chr01	28096240	CC	AA	AA	INTERGENIC			
SNP_2879_A_28096256	NC_021160.1	Ca_Kabuli_Chr01	28096256	TT	CC	CC	INTERGENIC			
SNP_2880_A_28096304	NC_021160.1	Ca_Kabuli_Chr01	28096304	GG	AA	AA	INTERGENIC			
SNP_2881_A_28306843	NC_021160.1	Ca_Kabuli_Chr01	28306843	TT	AA	AA	INTERGENIC			
SNP_2882_A_28316555	NC_021160.1	Ca_Kabuli_Chr01	28316555	TT	CC	CC	INTERGENIC			
SNP_2883_A_28316575	NC_021160.1	Ca_Kabuli_Chr01	28316575	TT	CC	CC	INTERGENIC			
SNP_2884_A_28316690	NC_021160.1	Ca_Kabuli_Chr01	28316690	TT	CC	CC	INTERGENIC			
SNP_2885_A_28316910	NC_021160.1	Ca_Kabuli_Chr01	28316910	AA	GG	GG	INTERGENIC			
SNP_2887_A_28346379	NC_021160.1	Ca_Kabuli_Chr01	28346379	CC	TT	TT	INTRON	101505921	101505921	uncharacterized LOC101505921

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2888_A_28387979	NC_021160.1	Ca_Kabuli_Chr01	28387979	GG	AA	AA	INTERGENIC		
SNP_2889_A_28447780	NC_021160.1	Ca_Kabuli_Chr01	28447780	TT	GG	GG	URR	101489995	cell division cycle 20.3, cofactor of APC complex-like
SNP_2891_A_28449322	NC_021160.1	Ca_Kabuli_Chr01	28449322	AA	GG	GG	DRR	101490650	Unknown function
SNP_2892_A_28449331	NC_021160.1	Ca_Kabuli_Chr01	28449331	AA	GG	GG	DRR	101490650	Unknown function
SNP_2893_A_28449352	NC_021160.1	Ca_Kabuli_Chr01	28449352	TT	GG	GG	DRR	101490650	Unknown function
SNP_2894_A_28449457	NC_021160.1	Ca_Kabuli_Chr01	28449457	AA	GG	GG	URR	101490331	Unknown function
SNP_2895_A_28449474	NC_021160.1	Ca_Kabuli_Chr01	28449474	TT	CC	CC	URR	101490331	Unknown function
SNP_2896_A_28449562	NC_021160.1	Ca_Kabuli_Chr01	28449562	AA	GG	GG	URR	101490331	Unknown function
SNP_2897_A_28449597	NC_021160.1	Ca_Kabuli_Chr01	28449597	AA	CC	CC	URR	101490331	Unknown function
SNP_2898_A_28449611	NC_021160.1	Ca_Kabuli_Chr01	28449611	AA	GG	GG	URR	101490331	Unknown function
SNP_2899_A_28449676	NC_021160.1	Ca_Kabuli_Chr01	28449676	AA	GG	GG	URR	101490331	Unknown function
SNP_2900_A_28449773	NC_021160.1	Ca_Kabuli_Chr01	28449773	TT	CC	CC	URR	101490331	Unknown function
SNP_2901_A_28449779	NC_021160.1	Ca_Kabuli_Chr01	28449779	AA	GG	GG	URR	101490331	Unknown function
SNP_2902_A_28449806	NC_021160.1	Ca_Kabuli_Chr01	28449806	CC	GG	GG	URR	101490331	Unknown function
SNP_2903_A_28449869	NC_021160.1	Ca_Kabuli_Chr01	28449869	TT	CC	CC	URR	101490331	Unknown function
SNP_2904_A_28468082	NC_021160.1	Ca_Kabuli_Chr01	28468082	GG	AA	AA	INTERGENIC		
SNP_2905_A_28468089	NC_021160.1	Ca_Kabuli_Chr01	28468089	GG	AA	AA	INTERGENIC		
SNP_2906_A_28468135	NC_021160.1	Ca_Kabuli_Chr01	28468135	CC	AA	AA	INTERGENIC		
SNP_2907_A_28468299	NC_021160.1	Ca_Kabuli_Chr01	28468299	CC	AA	AA	INTERGENIC		
SNP_2908_A_28468483	NC_021160.1	Ca_Kabuli_Chr01	28468483	TT	CC	CC	INTERGENIC		
SNP_2909_A_28519793	NC_021160.1	Ca_Kabuli_Chr01	28519793	CC	TT	TT	INTERGENIC		
SNP_2911_A_28550166	NC_021160.1	Ca_Kabuli_Chr01	28550166	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2913_A_28550290	NC_021160.1	Ca_Kabuli_Chr01	28550290	TT	CC	CC	INTERGENIC		
SNP_2914_A_28550467	NC_021160.1	Ca_Kabuli_Chr01	28550467	AA	TT	TT	INTERGENIC		
SNP_2915_A_28550468	NC_021160.1	Ca_Kabuli_Chr01	28550468	TT	CC	CC	INTERGENIC		
SNP_2916_A_28550494	NC_021160.1	Ca_Kabuli_Chr01	28550494	AA	CC	CC	INTERGENIC		
SNP_2917_A_28550517	NC_021160.1	Ca_Kabuli_Chr01	28550517	TT	CC	CC	INTERGENIC		
SNP_2918_A_28585900	NC_021160.1	Ca_Kabuli_Chr01	28585900	GG	TT	TT	INTERGENIC		
SNP_2919_A_28598863	NC_021160.1	Ca_Kabuli_Chr01	28598863	AA	GG	GG	INTERGENIC		
SNP_2920_A_28670672	NC_021160.1	Ca_Kabuli_Chr01	28670672	AA	CC	CC	INTERGENIC		
SNP_2921_A_28670674	NC_021160.1	Ca_Kabuli_Chr01	28670674	AA	GG	GG	INTERGENIC		
SNP_2923_A_28796506	NC_021160.1	Ca_Kabuli_Chr01	28796506	TT	CC	CC	INTERGENIC		
SNP_2924_A_28807520	NC_021160.1	Ca_Kabuli_Chr01	28807520	AA	TT	TT	URR	101511378	uncharacterized LOC101511378
SNP_2925_A_28807607	NC_021160.1	Ca_Kabuli_Chr01	28807607	AA	TT	TT	URR	101511378	uncharacterized LOC101511378
SNP_2926_A_28826413	NC_021160.1	Ca_Kabuli_Chr01	28826413	TT	AA	AA	INTERGENIC		
SNP_2927_A_28840344	NC_021160.1	Ca_Kabuli_Chr01	28840344	AA	CC	CC	DRR	101512451	uncharacterized LOC101512451
SNP_2928_A_28866701	NC_021160.1	Ca_Kabuli_Chr01	28866701	AA	GG	GG	INTERGENIC		
SNP_2929_A_28870318	NC_021160.1	Ca_Kabuli_Chr01	28870318	CC	GG	GG	INTERGENIC		
SNP_2930_A_28870895	NC_021160.1	Ca_Kabuli_Chr01	28870895	CC	TT	TT	INTERGENIC		
SNP_2931_A_28870898	NC_021160.1	Ca_Kabuli_Chr01	28870898	GG	TT	TT	INTERGENIC		
SNP_2932_A_28871603	NC_021160.1	Ca_Kabuli_Chr01	28871603	TT	CC	CC	INTERGENIC		
SNP_2933_A_28891037	NC_021160.1	Ca_Kabuli_Chr01	28891037	TT	CC	CC	INTERGENIC		
SNP_2934_A_28891060	NC_021160.1	Ca_Kabuli_Chr01	28891060	AA	GG	GG	INTERGENIC		
SNP_2935_A_28891076	NC_021160.1	Ca_Kabuli_Chr01	28891076	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_2936_A_28891079	NC_021160.1	Ca_Kabuli_Chr01	28891079	GG	TT	TT	INTERGENIC			
SNP_2937_A_28891083	NC_021160.1	Ca_Kabuli_Chr01	28891083	AA	GG	GG	INTERGENIC			
SNP_2938_A_28891118	NC_021160.1	Ca_Kabuli_Chr01	28891118	TT	AA	AA	INTERGENIC			
SNP_2939_A_28905200	NC_021160.1	Ca_Kabuli_Chr01	28905200	GG	TT	TT	INTERGENIC			
SNP_2940_A_28905217	NC_021160.1	Ca_Kabuli_Chr01	28905217	GG	AA	AA	INTERGENIC			
SNP_2941_A_28905278	NC_021160.1	Ca_Kabuli_Chr01	28905278	TT	AA	AA	INTERGENIC			
SNP_2942_A_28905307	NC_021160.1	Ca_Kabuli_Chr01	28905307	GG	AA	AA	INTERGENIC			
SNP_2943_A_28905318	NC_021160.1	Ca_Kabuli_Chr01	28905318	AA	TT	TT	INTERGENIC			
SNP_2944_A_28905393	NC_021160.1	Ca_Kabuli_Chr01	28905393	TT	CC	CC	INTERGENIC			
SNP_2945_A_28905422	NC_021160.1	Ca_Kabuli_Chr01	28905422	AA	GG	GG	INTERGENIC			
SNP_2946_A_28905426	NC_021160.1	Ca_Kabuli_Chr01	28905426	GG	AA	AA	INTERGENIC			
SNP_2947_A_28905467	NC_021160.1	Ca_Kabuli_Chr01	28905467	AA	CC	CC	INTERGENIC			
SNP_2948_A_28905490	NC_021160.1	Ca_Kabuli_Chr01	28905490	CC	AA	AA	INTERGENIC			
SNP_2949_A_28905531	NC_021160.1	Ca_Kabuli_Chr01	28905531	CC	TT	TT	INTERGENIC			
SNP_2950_A_28905542	NC_021160.1	Ca_Kabuli_Chr01	28905542	TT	CC	CC	INTERGENIC			
SNP_2951_A_28905606	NC_021160.1	Ca_Kabuli_Chr01	28905606	AA	GG	GG	INTERGENIC			
SNP_2952_A_28905638	NC_021160.1	Ca_Kabuli_Chr01	28905638	GG	AA	AA	INTERGENIC			
SNP_2953_A_28905681	NC_021160.1	Ca_Kabuli_Chr01	28905681	CC	TT	TT	INTERGENIC			
SNP_2954_A_28905770	NC_021160.1	Ca_Kabuli_Chr01	28905770	TT	GG	GG	INTERGENIC			
SNP_2955_A_28905795	NC_021160.1	Ca_Kabuli_Chr01	28905795	GG	AA	AA	INTERGENIC			
SNP_2956_A_28905952	NC_021160.1	Ca_Kabuli_Chr01	28905952	CC	AA	AA	INTERGENIC			
SNP_2957_A_28905958	NC_021160.1	Ca_Kabuli_Chr01	28905958	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2958_A_28906046	NC_021160.1	Ca_Kabuli_Chr01	28906046	TT	AA	AA	INTERGENIC		
SNP_2959_A_28906083	NC_021160.1	Ca_Kabuli_Chr01	28906083	TT	GG	GG	INTERGENIC		
SNP_2960_A_28906209	NC_021160.1	Ca_Kabuli_Chr01	28906209	TT	AA	AA	INTERGENIC		
SNP_2961_A_28906216	NC_021160.1	Ca_Kabuli_Chr01	28906216	GG	TT	TT	INTERGENIC		
SNP_2962_A_28906260	NC_021160.1	Ca_Kabuli_Chr01	28906260	AA	GG	GG	INTERGENIC		
SNP_2963_A_28906588	NC_021160.1	Ca_Kabuli_Chr01	28906588	AA	TT	TT	DRR	101493891	sugar transport protein 1-like
SNP_2964_A_28906605	NC_021160.1	Ca_Kabuli_Chr01	28906605	AA	TT	TT	DRR	101493891	sugar transport protein 1-like
SNP_2965_A_28906642	NC_021160.1	Ca_Kabuli_Chr01	28906642	AA	GG	GG	DRR	101493891	sugar transport protein 1-like
SNP_2967_A_28906731	NC_021160.1	Ca_Kabuli_Chr01	28906731	AA	GG	GG	DRR	101493891	sugar transport protein 1-like
SNP_2968_A_28906864	NC_021160.1	Ca_Kabuli_Chr01	28906864	TT	CC	CC	DRR	101493891	sugar transport protein 1-like
SNP_2969_A_28906869	NC_021160.1	Ca_Kabuli_Chr01	28906869	AA	CC	CC	DRR	101493891	sugar transport protein 1-like
SNP_2970_A_28906886	NC_021160.1	Ca_Kabuli_Chr01	28906886	CC	AA	AA	DRR	101493891	sugar transport protein 1-like
SNP_2971_A_28906892	NC_021160.1	Ca_Kabuli_Chr01	28906892	CC	GG	GG	DRR	101493891	sugar transport protein 1-like
SNP_2972_A_28906919	NC_021160.1	Ca_Kabuli_Chr01	28906919	AA	GG	GG	DRR	101493891	sugar transport protein 1-like
SNP_2973_A_28906929	NC_021160.1	Ca_Kabuli_Chr01	28906929	GG	AA	AA	DRR	101493891	sugar transport protein 1-like
SNP_2974_A_28906961	NC_021160.1	Ca_Kabuli_Chr01	28906961	AA	GG	GG	DRR	101493891	sugar transport protein 1-like
SNP_2975_A_28909932	NC_021160.1	Ca_Kabuli_Chr01	28909932	AA	CC	CC	URR	101493891	sugar transport protein 1-like
SNP_2976_A_28910026	NC_021160.1	Ca_Kabuli_Chr01	28910026	CC	AA	AA	URR	101493891	sugar transport protein 1-like
SNP_2977_A_28910058	NC_021160.1	Ca_Kabuli_Chr01	28910058	GG	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2978_A_28910069	NC_021160.1	Ca_Kabuli_Chr01	28910069	CC	AA	AA	URR	101493891	sugar transport protein 1-like
SNP_2979_A_28910152	NC_021160.1	Ca_Kabuli_Chr01	28910152	GG	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2980_A_28910235	NC_021160.1	Ca_Kabuli_Chr01	28910235	GG	CC	CC	URR	101493891	sugar transport protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_2981_A_28910243	NC_021160.1	Ca_Kabuli_Chr01	28910243	CC	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2985_A_28910512	NC_021160.1	Ca_Kabuli_Chr01	28910512	TT	CC	CC	URR	101493891	sugar transport protein 1-like
SNP_2986_A_28910677	NC_021160.1	Ca_Kabuli_Chr01	28910677	AA	GG	GG	URR	101493891	sugar transport protein 1-like
SNP_2987_A_28910700	NC_021160.1	Ca_Kabuli_Chr01	28910700	AA	GG	GG	URR	101493891	sugar transport protein 1-like
SNP_2988_A_28910757	NC_021160.1	Ca_Kabuli_Chr01	28910757	TT	GG	GG	URR	101493891	sugar transport protein 1-like
SNP_2989_A_28910779	NC_021160.1	Ca_Kabuli_Chr01	28910779	AA	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2990_A_28910836	NC_021160.1	Ca_Kabuli_Chr01	28910836	AA	GG	GG	URR	101493891	sugar transport protein 1-like
SNP_2991_A_28910980	NC_021160.1	Ca_Kabuli_Chr01	28910980	CC	AA	AA	URR	101493891	sugar transport protein 1-like
SNP_2992_A_28910998	NC_021160.1	Ca_Kabuli_Chr01	28910998	AA	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2993_A_28911004	NC_021160.1	Ca_Kabuli_Chr01	28911004	TT	CC	CC	URR	101493891	sugar transport protein 1-like
SNP_2994_A_28911062	NC_021160.1	Ca_Kabuli_Chr01	28911062	CC	TT	TT	URR	101493891	sugar transport protein 1-like
SNP_2995_A_28911072	NC_021160.1	Ca_Kabuli_Chr01	28911072	AA	CC	CC	URR	101493891	sugar transport protein 1-like
SNP_2996_A_28911098	NC_021160.1	Ca_Kabuli_Chr01	28911098	GG	CC	CC	URR	101493891	sugar transport protein 1-like
SNP_2997_A_28911365	NC_021160.1	Ca_Kabuli_Chr01	28911365	AA	GG	GG	URR	101493891	sugar transport protein 1-like
SNP_2998_A_28911419	NC_021160.1	Ca_Kabuli_Chr01	28911419	TT	AA	AA	URR	101493891	sugar transport protein 1-like
SNP_2999_A_28911448	NC_021160.1	Ca_Kabuli_Chr01	28911448	CC	TT	TT	INTERGENIC		
SNP_3000_A_28911562	NC_021160.1	Ca_Kabuli_Chr01	28911562	CC	TT	TT	INTERGENIC		
SNP_3001_A_28913149	NC_021160.1	Ca_Kabuli_Chr01	28913149	CC	TT	TT	INTERGENIC		
SNP_3002_A_28915328	NC_021160.1	Ca_Kabuli_Chr01	28915328	TT	CC	CC	INTERGENIC		
SNP_3003_A_28915440	NC_021160.1	Ca_Kabuli_Chr01	28915440	GG	AA	AA	INTERGENIC		
SNP_3004_A_28915453	NC_021160.1	Ca_Kabuli_Chr01	28915453	CC	TT	TT	INTERGENIC		
SNP_3005_A_28915623	NC_021160.1	Ca_Kabuli_Chr01	28915623	GG	AA	AA	INTERGENIC		

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SNP_3006_A_28916425	NC_021160.1	Ca_Kabuli_Chr01	28916425	AA	CC	CC	INTERGENIC			
SNP_3007_A_28916514	NC_021160.1	Ca_Kabuli_Chr01	28916514	CC	AA	AA	INTERGENIC			
SNP_3008_A_28916526	NC_021160.1	Ca_Kabuli_Chr01	28916526	TT	GG	GG	INTERGENIC			
SNP_3009_A_28916548	NC_021160.1	Ca_Kabuli_Chr01	28916548	AA	CC	CC	INTERGENIC			
SNP_3010_A_28916651	NC_021160.1	Ca_Kabuli_Chr01	28916651	TT	CC	CC	INTERGENIC			
SNP_3011_A_28916679	NC_021160.1	Ca_Kabuli_Chr01	28916679	AA	CC	CC	INTERGENIC			
SNP_3012_A_28916692	NC_021160.1	Ca_Kabuli_Chr01	28916692	CC	TT	TT	INTERGENIC			
SNP_3013_A_28916753	NC_021160.1	Ca_Kabuli_Chr01	28916753	GG	AA	AA	INTERGENIC			
SNP_3014_A_28916786	NC_021160.1	Ca_Kabuli_Chr01	28916786	TT	CC	CC	INTERGENIC			
SNP_3015_A_28916813	NC_021160.1	Ca_Kabuli_Chr01	28916813	GG	AA	AA	INTERGENIC			
SNP_3016_A_28916839	NC_021160.1	Ca_Kabuli_Chr01	28916839	CC	GG	GG	INTERGENIC			
SNP_3017_A_28916864	NC_021160.1	Ca_Kabuli_Chr01	28916864	AA	CC	CC	INTERGENIC			
SNP_3018_A_28916867	NC_021160.1	Ca_Kabuli_Chr01	28916867	TT	CC	CC	INTERGENIC			
SNP_3019_A_28917064	NC_021160.1	Ca_Kabuli_Chr01	28917064	CC	TT	TT	INTERGENIC			
SNP_3020_A_28917766	NC_021160.1	Ca_Kabuli_Chr01	28917766	TT	CC	CC	INTERGENIC			
SNP_3021_A_28917820	NC_021160.1	Ca_Kabuli_Chr01	28917820	TT	GG	GG	INTERGENIC			
SNP_3022_A_28917886	NC_021160.1	Ca_Kabuli_Chr01	28917886	TT	CC	CC	INTERGENIC			
SNP_3023_A_28927984	NC_021160.1	Ca_Kabuli_Chr01	28927984	AA	TT	TT	INTERGENIC			
SNP_3024_A_28928016	NC_021160.1	Ca_Kabuli_Chr01	28928016	GG	AA	AA	INTERGENIC			
SNP_3025_A_28929247	NC_021160.1	Ca_Kabuli_Chr01	28929247	CC	TT	TT	INTERGENIC			
SNP_3026_A_28929562	NC_021160.1	Ca_Kabuli_Chr01	28929562	AA	CC	CC	INTERGENIC			
SNP_3027_A_28929642	NC_021160.1	Ca_Kabuli_Chr01	28929642	GG	AA	AA	INTERGENIC			

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SNP_3028_A_28929684	NC_021160.1	Ca_Kabuli_Chr01	28929684	TT	AA	AA	INTERGENIC			
SNP_3029_A_28929764	NC_021160.1	Ca_Kabuli_Chr01	28929764	CC	TT	TT	INTERGENIC			
SNP_3030_A_28929809	NC_021160.1	Ca_Kabuli_Chr01	28929809	GG	AA	AA	INTERGENIC			
SNP_3031_A_28929823	NC_021160.1	Ca_Kabuli_Chr01	28929823	CC	GG	GG	INTERGENIC			
SNP_3032_A_28929995	NC_021160.1	Ca_Kabuli_Chr01	28929995	CC	TT	TT	INTERGENIC			
SNP_3033_A_28930070	NC_021160.1	Ca_Kabuli_Chr01	28930070	TT	AA	AA	INTERGENIC			
SNP_3034_A_28930079	NC_021160.1	Ca_Kabuli_Chr01	28930079	AA	GG	GG	INTERGENIC			
SNP_3035_A_28930093	NC_021160.1	Ca_Kabuli_Chr01	28930093	AA	GG	GG	INTERGENIC			
SNP_3036_A_28930140	NC_021160.1	Ca_Kabuli_Chr01	28930140	AA	GG	GG	INTERGENIC			
SNP_3037_A_28930225	NC_021160.1	Ca_Kabuli_Chr01	28930225	GG	TT	TT	INTERGENIC			
SNP_3038_A_28930252	NC_021160.1	Ca_Kabuli_Chr01	28930252	AA	GG	GG	INTERGENIC			
SNP_3039_A_28930310	NC_021160.1	Ca_Kabuli_Chr01	28930310	CC	TT	TT	INTERGENIC			
SNP_3040_A_28930318	NC_021160.1	Ca_Kabuli_Chr01	28930318	CC	GG	GG	INTERGENIC			
SNP_3041_A_28930718	NC_021160.1	Ca_Kabuli_Chr01	28930718	GG	AA	AA	INTERGENIC			
SNP_3044_A_28935849	NC_021160.1	Ca_Kabuli_Chr01	28935849	AA	GG	GG	INTERGENIC			
SNP_3045_A_28935858	NC_021160.1	Ca_Kabuli_Chr01	28935858	AA	GG	GG	INTERGENIC			
SNP_3046_A_28935914	NC_021160.1	Ca_Kabuli_Chr01	28935914	GG	AA	AA	INTERGENIC			
SNP_3047_A_28935939	NC_021160.1	Ca_Kabuli_Chr01	28935939	CC	TT	TT	INTERGENIC			
SNP_3048_A_28935940	NC_021160.1	Ca_Kabuli_Chr01	28935940	AA	TT	TT	INTERGENIC			
SNP_3049_A_28935993	NC_021160.1	Ca_Kabuli_Chr01	28935993	TT	AA	AA	INTERGENIC			
SNP_3050_A_28936044	NC_021160.1	Ca_Kabuli_Chr01	28936044	CC	AA	AA	INTERGENIC			
SNP_3051_A_28936045	NC_021160.1	Ca_Kabuli_Chr01	28936045	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3052_A_28936061	NC_021160.1	Ca_Kabuli_Chr01	28936061	CC	TT	TT	INTERGENIC			
SNP_3054_A_28936166	NC_021160.1	Ca_Kabuli_Chr01	28936166	AA	GG	GG	INTERGENIC			
SNP_3055_A_28936174	NC_021160.1	Ca_Kabuli_Chr01	28936174	AA	GG	GG	INTERGENIC			
SNP_3057_A_28936283	NC_021160.1	Ca_Kabuli_Chr01	28936283	CC	TT	TT	INTERGENIC			
SNP_3058_A_28936319	NC_021160.1	Ca_Kabuli_Chr01	28936319	TT	CC	CC	INTERGENIC			
SNP_3059_A_28939208	NC_021160.1	Ca_Kabuli_Chr01	28939208	TT	AA	AA	INTERGENIC			
SNP_3060_A_28939209	NC_021160.1	Ca_Kabuli_Chr01	28939209	CC	AA	AA	INTERGENIC			
SNP_3061_A_28939299	NC_021160.1	Ca_Kabuli_Chr01	28939299	CC	TT	TT	INTERGENIC			
SNP_3062_A_28939389	NC_021160.1	Ca_Kabuli_Chr01	28939389	TT	AA	AA	INTERGENIC			
SNP_3064_A_28939493	NC_021160.1	Ca_Kabuli_Chr01	28939493	GG	AA	AA	INTERGENIC			
SNP_3065_A_28939505	NC_021160.1	Ca_Kabuli_Chr01	28939505	GG	CC	CC	INTERGENIC			
SNP_3066_A_28939509	NC_021160.1	Ca_Kabuli_Chr01	28939509	GG	AA	AA	INTERGENIC			
SNP_3067_A_28939530	NC_021160.1	Ca_Kabuli_Chr01	28939530	CC	AA	AA	INTERGENIC			
SNP_3068_A_28939552	NC_021160.1	Ca_Kabuli_Chr01	28939552	GG	AA	AA	INTERGENIC			
SNP_3069_A_28939588	NC_021160.1	Ca_Kabuli_Chr01	28939588	CC	AA	AA	INTERGENIC			
SNP_3070_A_28939628	NC_021160.1	Ca_Kabuli_Chr01	28939628	GG	CC	CC	INTERGENIC			
SNP_3071_A_28939679	NC_021160.1	Ca_Kabuli_Chr01	28939679	AA	TT	TT	INTERGENIC			
SNP_3072_A_28939701	NC_021160.1	Ca_Kabuli_Chr01	28939701	TT	CC	CC	INTERGENIC			
SNP_3073_A_28939756	NC_021160.1	Ca_Kabuli_Chr01	28939756	AA	GG	GG	INTERGENIC			
SNP_3074_A_28939777	NC_021160.1	Ca_Kabuli_Chr01	28939777	CC	AA	AA	INTERGENIC			
SNP_3075_A_28939817	NC_021160.1	Ca_Kabuli_Chr01	28939817	AA	GG	GG	INTERGENIC			
SNP_3076_A_28939983	NC_021160.1	Ca_Kabuli_Chr01	28939983	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3077_A_28940012	NC_021160.1	Ca_Kabuli_Chr01	28940012	AA	GG	GG	INTERGENIC			
SNP_3078_A_28940049	NC_021160.1	Ca_Kabuli_Chr01	28940049	TT	GG	GG	INTERGENIC			
SNP_3079_A_28940078	NC_021160.1	Ca_Kabuli_Chr01	28940078	GG	CC	CC	INTERGENIC			
SNP_3080_A_28940085	NC_021160.1	Ca_Kabuli_Chr01	28940085	TT	CC	CC	INTERGENIC			
SNP_3081_A_28940760	NC_021160.1	Ca_Kabuli_Chr01	28940760	AA	GG	GG	INTERGENIC			
SNP_3082_A_28940997	NC_021160.1	Ca_Kabuli_Chr01	28940997	GG	TT	TT	INTERGENIC			
SNP_3083_A_28941193	NC_021160.1	Ca_Kabuli_Chr01	28941193	CC	AA	AA	INTERGENIC			
SNP_3084_A_28941278	NC_021160.1	Ca_Kabuli_Chr01	28941278	TT	GG	GG	INTERGENIC			
SNP_3085_A_28941379	NC_021160.1	Ca_Kabuli_Chr01	28941379	CC	TT	TT	INTERGENIC			
SNP_3086_A_28941429	NC_021160.1	Ca_Kabuli_Chr01	28941429	GG	AA	AA	INTERGENIC			
SNP_3087_A_28941466	NC_021160.1	Ca_Kabuli_Chr01	28941466	CC	TT	TT	INTERGENIC			
SNP_3089_A_28941659	NC_021160.1	Ca_Kabuli_Chr01	28941659	CC	AA	AA	INTERGENIC			
SNP_3090_A_28941662	NC_021160.1	Ca_Kabuli_Chr01	28941662	CC	TT	TT	INTERGENIC			
SNP_3091_A_28941663	NC_021160.1	Ca_Kabuli_Chr01	28941663	AA	GG	GG	INTERGENIC			
SNP_3092_A_28941670	NC_021160.1	Ca_Kabuli_Chr01	28941670	TT	AA	AA	INTERGENIC			
SNP_3093_A_28941742	NC_021160.1	Ca_Kabuli_Chr01	28941742	CC	AA	AA	INTERGENIC			
SNP_3094_A_28941762	NC_021160.1	Ca_Kabuli_Chr01	28941762	TT	CC	CC	INTERGENIC			
SNP_3095_A_28941771	NC_021160.1	Ca_Kabuli_Chr01	28941771	CC	TT	TT	INTERGENIC			
SNP_3096_A_28942004	NC_021160.1	Ca_Kabuli_Chr01	28942004	GG	AA	AA	INTERGENIC			
SNP_3097_A_28942045	NC_021160.1	Ca_Kabuli_Chr01	28942045	GG	TT	TT	INTERGENIC			
SNP_3098_A_28942266	NC_021160.1	Ca_Kabuli_Chr01	28942266	AA	GG	GG	INTERGENIC			
SNP_3099_A_28943316	NC_021160.1	Ca_Kabuli_Chr01	28943316	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3100_A_28943419	NC_021160.1	Ca_Kabuli_Chr01	28943419	GG	AA	AA	INTERGENIC			
SNP_3101_A_28943420	NC_021160.1	Ca_Kabuli_Chr01	28943420	GG	AA	AA	INTERGENIC			
SNP_3102_A_28943535	NC_021160.1	Ca_Kabuli_Chr01	28943535	AA	TT	TT	INTERGENIC			
SNP_3103_A_28943538	NC_021160.1	Ca_Kabuli_Chr01	28943538	AA	GG	GG	INTERGENIC			
SNP_3105_A_28943569	NC_021160.1	Ca_Kabuli_Chr01	28943569	TT	CC	CC	INTERGENIC			
SNP_3106_A_28943671	NC_021160.1	Ca_Kabuli_Chr01	28943671	CC	AA	AA	INTERGENIC			
SNP_3107_A_28943789	NC_021160.1	Ca_Kabuli_Chr01	28943789	AA	TT	TT	INTERGENIC			
SNP_3108_A_28943893	NC_021160.1	Ca_Kabuli_Chr01	28943893	CC	TT	TT	INTERGENIC			
SNP_3109_A_28944007	NC_021160.1	Ca_Kabuli_Chr01	28944007	GG	AA	AA	INTERGENIC			
SNP_3110_A_28944080	NC_021160.1	Ca_Kabuli_Chr01	28944080	GG	TT	TT	INTERGENIC			
SNP_3111_A_28944126	NC_021160.1	Ca_Kabuli_Chr01	28944126	AA	TT	TT	INTERGENIC			
SNP_3112_A_28944156	NC_021160.1	Ca_Kabuli_Chr01	28944156	GG	AA	AA	INTERGENIC			
SNP_3113_A_28944300	NC_021160.1	Ca_Kabuli_Chr01	28944300	TT	CC	CC	INTERGENIC			
SNP_3114_A_28944329	NC_021160.1	Ca_Kabuli_Chr01	28944329	GG	TT	TT	INTERGENIC			
SNP_3115_A_28944369	NC_021160.1	Ca_Kabuli_Chr01	28944369	AA	TT	TT	INTERGENIC			
SNP_3116_A_28944413	NC_021160.1	Ca_Kabuli_Chr01	28944413	AA	TT	TT	INTERGENIC			
SNP_3117_A_28944414	NC_021160.1	Ca_Kabuli_Chr01	28944414	CC	AA	AA	INTERGENIC			
SNP_3119_A_28944579	NC_021160.1	Ca_Kabuli_Chr01	28944579	AA	GG	GG	INTERGENIC			
SNP_3120_A_28944675	NC_021160.1	Ca_Kabuli_Chr01	28944675	AA	GG	GG	INTERGENIC			
SNP_3121_A_28944714	NC_021160.1	Ca_Kabuli_Chr01	28944714	GG	TT	TT	INTERGENIC			
SNP_3123_A_28988227	NC_021160.1	Ca_Kabuli_Chr01	28988227	CC	TT	TT	INTERGENIC			
SNP_3124_A_29029054	NC_021160.1	Ca_Kabuli_Chr01	29029054	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3125_A_29071928	NC_021160.1	Ca_Kabuli_Chr01	29071928	TT	AA	AA	INTERGENIC		
SNP_3126_A_29106568	NC_021160.1	Ca_Kabuli_Chr01	29106568	GG	AA	AA	INTERGENIC		
SNP_3127_A_29106572	NC_021160.1	Ca_Kabuli_Chr01	29106572	TT	GG	GG	INTERGENIC		
SNP_3128_A_29106592	NC_021160.1	Ca_Kabuli_Chr01	29106592	TT	GG	GG	INTERGENIC		
SNP_3130_A_29144384	NC_021160.1	Ca_Kabuli_Chr01	29144384	GG	AA	AA	INTERGENIC		
SNP_3131_A_29163335	NC_021160.1	Ca_Kabuli_Chr01	29163335	CC	TT	TT	INTERGENIC		
SNP_3132_A_29163338	NC_021160.1	Ca_Kabuli_Chr01	29163338	GG	AA	AA	INTERGENIC		
SNP_3133_A_29163398	NC_021160.1	Ca_Kabuli_Chr01	29163398	CC	TT	TT	INTERGENIC		
SNP_3134_A_29163405	NC_021160.1	Ca_Kabuli_Chr01	29163405	GG	CC	CC	INTERGENIC		
SNP_3135_A_29172831	NC_021160.1	Ca_Kabuli_Chr01	29172831	CC	AA	AA	URR	101495595	pentatricopeptide repeat-containing protein At2g30780-like
SNP_3136_A_29176618	NC_021160.1	Ca_Kabuli_Chr01	29176618	TT	CC	CC	INTERGENIC		
SNP_3137_A_29176852	NC_021160.1	Ca_Kabuli_Chr01	29176852	AA	GG	GG	INTERGENIC		
SNP_3138_A_29190516	NC_021160.1	Ca_Kabuli_Chr01	29190516	TT	CC	CC	INTERGENIC		
SNP_3139_A_29207639	NC_021160.1	Ca_Kabuli_Chr01	29207639	TT	GG	GG	INTERGENIC		
SNP_3140_A_29266383	NC_021160.1	Ca_Kabuli_Chr01	29266383	GG	CC	CC	NON_SYNONYMOUS_CODING	101501422	uncharacterized LOC101501422
SNP_3141_A_29274953	NC_021160.1	Ca_Kabuli_Chr01	29274953	AA	TT	TT	INTERGENIC		
SNP_3142_A_29307986	NC_021160.1	Ca_Kabuli_Chr01	29307986	TT	AA	AA	INTERGENIC		
SNP_3143_A_29335376	NC_021160.1	Ca_Kabuli_Chr01	29335376	TT	GG	GG	INTERGENIC		
SNP_3144_A_29343994	NC_021160.1	Ca_Kabuli_Chr01	29343994	GG	AA	AA	INTERGENIC		
SNP_3145_A_29386800	NC_021160.1	Ca_Kabuli_Chr01	29386800	AA	GG	GG	URR	101498449	uncharacterized LOC101498449
SNP_3146_A_29386833	NC_021160.1	Ca_Kabuli_Chr01	29386833	TT	AA	AA	URR	101498449	uncharacterized LOC101498449
SNP_3147_A_29391717	NC_021160.1	Ca_Kabuli_Chr01	29391717	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3148_A_29395292	NC_021160.1	Ca_Kabuli_Chr01	29395292	AA	TT	TT	INTERGENIC			
SNP_3149_A_29420976	NC_021160.1	Ca_Kabuli_Chr01	29420976	GG	TT	TT	INTERGENIC			
SNP_3150_A_29436114	NC_021160.1	Ca_Kabuli_Chr01	29436114	CC	GG	GG	INTERGENIC			
SNP_3151_A_29483963	NC_021160.1	Ca_Kabuli_Chr01	29483963	AA	CC	CC	INTERGENIC			
SNP_3152_A_29505805	NC_021160.1	Ca_Kabuli_Chr01	29505805	TT	AA	AA	INTERGENIC			
SNP_3153_A_29505832	NC_021160.1	Ca_Kabuli_Chr01	29505832	CC	TT	TT	INTERGENIC			
SNP_3154_A_29505833	NC_021160.1	Ca_Kabuli_Chr01	29505833	AA	GG	GG	INTERGENIC			
SNP_3155_A_29523803	NC_021160.1	Ca_Kabuli_Chr01	29523803	GG	TT	TT	INTERGENIC			
SNP_3156_A_29524402	NC_021160.1	Ca_Kabuli_Chr01	29524402	AA	GG	GG	INTERGENIC			
SNP_3157_A_29525971	NC_021160.1	Ca_Kabuli_Chr01	29525971	GG	AA	AA	INTERGENIC			
SNP_3158_A_29526338	NC_021160.1	Ca_Kabuli_Chr01	29526338	AA	TT	TT	INTERGENIC			
SNP_3159_A_29526889	NC_021160.1	Ca_Kabuli_Chr01	29526889	CC	AA	AA	INTERGENIC			
SNP_3160_A_29526966	NC_021160.1	Ca_Kabuli_Chr01	29526966	TT	CC	CC	INTERGENIC			
SNP_3161_A_29527779	NC_021160.1	Ca_Kabuli_Chr01	29527779	AA	GG	GG	INTERGENIC			
SNP_3162_A_29538987	NC_021160.1	Ca_Kabuli_Chr01	29538987	AA	GG	GG	INTERGENIC			
SNP_3163_A_29539159	NC_021160.1	Ca_Kabuli_Chr01	29539159	GG	AA	AA	INTERGENIC			
SNP_3164_A_29572102	NC_021160.1	Ca_Kabuli_Chr01	29572102	TT	GG	GG	URR	101503250	uncharacterized LOC101503250	
SNP_3165_A_29572184	NC_021160.1	Ca_Kabuli_Chr01	29572184	GG	AA	AA	URR	101503250	uncharacterized LOC101503250	
SNP_3166_A_29572206	NC_021160.1	Ca_Kabuli_Chr01	29572206	AA	GG	GG	URR	101503250	uncharacterized LOC101503250	
SNP_3167_A_29572311	NC_021160.1	Ca_Kabuli_Chr01	29572311	TT	CC	CC	URR	101503250	uncharacterized LOC101503250	
SNP_3168_A_29587375	NC_021160.1	Ca_Kabuli_Chr01	29587375	GG	AA	AA	INTERGENIC			
SNP_3169_A_29587399	NC_021160.1	Ca_Kabuli_Chr01	29587399	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3170_A_29601480	NC_021160.1	Ca_Kabuli_Chr01	29601480	CC	AA	AA	INTERGENIC			
SNP_3171_A_29601481	NC_021160.1	Ca_Kabuli_Chr01	29601481	CC	AA	AA	INTERGENIC			
SNP_3172_A_29618095	NC_021160.1	Ca_Kabuli_Chr01	29618095	CC	TT	TT	DRR	101502600		uncharacterized LOC101502600
SNP_3173_A_29618108	NC_021160.1	Ca_Kabuli_Chr01	29618108	AA	GG	GG	DRR	101502600		uncharacterized LOC101502600
SNP_3174_A_29619593	NC_021160.1	Ca_Kabuli_Chr01	29619593	CC	AA	AA	INTRON	101502600		uncharacterized LOC101502600
SNP_3175_A_29619830	NC_021160.1	Ca_Kabuli_Chr01	29619830	AA	CC	CC	URR	101502600		uncharacterized LOC101502600
SNP_3176_A_29632122	NC_021160.1	Ca_Kabuli_Chr01	29632122	AA	GG	GG	INTERGENIC			
SNP_3177_A_29634964	NC_021160.1	Ca_Kabuli_Chr01	29634964	TT	AA	AA	INTRON	id20232		Unknown function
SNP_3178_A_29634977	NC_021160.1	Ca_Kabuli_Chr01	29634977	AA	CC	CC	INTRON	id20232		Unknown function
SNP_3179_A_29634980	NC_021160.1	Ca_Kabuli_Chr01	29634980	CC	AA	AA	INTRON	id20232		Unknown function
SNP_3180_A_29634982	NC_021160.1	Ca_Kabuli_Chr01	29634982	TT	AA	AA	INTRON	id20232		Unknown function
SNP_3182_A_29636959	NC_021160.1	Ca_Kabuli_Chr01	29636959	AA	GG	GG	URR	101502393		uncharacterized LOC101502393
SNP_3184_A_29637110	NC_021160.1	Ca_Kabuli_Chr01	29637110	CC	TT	TT	URR	101502393		uncharacterized LOC101502393
SNP_3185_A_29637157	NC_021160.1	Ca_Kabuli_Chr01	29637157	AA	GG	GG	URR	101502393		uncharacterized LOC101502393
SNP_3186_A_29637342	NC_021160.1	Ca_Kabuli_Chr01	29637342	AA	GG	GG	URR	101502393		uncharacterized LOC101502393
SNP_3187_A_29643475	NC_021160.1	Ca_Kabuli_Chr01	29643475	TT	CC	CC	INTERGENIC			
SNP_3188_A_29643488	NC_021160.1	Ca_Kabuli_Chr01	29643488	TT	CC	CC	INTERGENIC			
SNP_3189_A_29649889	NC_021160.1	Ca_Kabuli_Chr01	29649889	AA	GG	GG	INTERGENIC			
SNP_3190_A_29650240	NC_021160.1	Ca_Kabuli_Chr01	29650240	AA	GG	GG	INTERGENIC			
SNP_3191_A_29651010	NC_021160.1	Ca_Kabuli_Chr01	29651010	AA	GG	GG	INTERGENIC			
SNP_3192_A_29651019	NC_021160.1	Ca_Kabuli_Chr01	29651019	TT	CC	CC	INTERGENIC			
SNP_3193_A_29651022	NC_021160.1	Ca_Kabuli_Chr01	29651022	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3195_A_29681676	NC_021160.1	Ca_Kabuli_Chr01	29681676	AA	GG	GG	INTERGENIC			
SNP_3196_A_29681704	NC_021160.1	Ca_Kabuli_Chr01	29681704	TT	CC	CC	INTERGENIC			
SNP_3197_A_29707055	NC_021160.1	Ca_Kabuli_Chr01	29707055	TT	CC	CC	INTERGENIC			
SNP_3198_A_29708430	NC_021160.1	Ca_Kabuli_Chr01	29708430	GG	AA	AA	INTERGENIC			
SNP_3199_A_29708494	NC_021160.1	Ca_Kabuli_Chr01	29708494	CC	TT	TT	INTERGENIC			
SNP_3200_A_29709019	NC_021160.1	Ca_Kabuli_Chr01	29709019	GG	AA	AA	INTERGENIC			
SNP_3202_A_29712296	NC_021160.1	Ca_Kabuli_Chr01	29712296	GG	AA	AA	INTERGENIC			
SNP_3204_A_29748203	NC_021160.1	Ca_Kabuli_Chr01	29748203	TT	AA	AA	INTERGENIC			
SNP_3205_A_29748251	NC_021160.1	Ca_Kabuli_Chr01	29748251	TT	GG	GG	INTERGENIC			
SNP_3206_A_29749936	NC_021160.1	Ca_Kabuli_Chr01	29749936	CC	GG	GG	INTERGENIC			
SNP_3207_A_29764452	NC_021160.1	Ca_Kabuli_Chr01	29764452	AA	GG	GG	INTERGENIC			
SNP_3208_A_29781690	NC_021160.1	Ca_Kabuli_Chr01	29781690	AA	GG	GG	INTERGENIC			
SNP_3209_A_29781733	NC_021160.1	Ca_Kabuli_Chr01	29781733	GG	AA	AA	INTERGENIC			
SNP_3210_A_29781810	NC_021160.1	Ca_Kabuli_Chr01	29781810	TT	CC	CC	INTERGENIC			
SNP_3211_A_29781963	NC_021160.1	Ca_Kabuli_Chr01	29781963	AA	CC	CC	INTERGENIC			
SNP_3212_A_29781970	NC_021160.1	Ca_Kabuli_Chr01	29781970	TT	CC	CC	INTERGENIC			
SNP_3213_A_29782008	NC_021160.1	Ca_Kabuli_Chr01	29782008	GG	AA	AA	INTERGENIC			
SNP_3214_A_29782054	NC_021160.1	Ca_Kabuli_Chr01	29782054	TT	CC	CC	INTERGENIC			
SNP_3215_A_29782086	NC_021160.1	Ca_Kabuli_Chr01	29782086	AA	TT	TT	INTERGENIC			
SNP_3217_A_29791470	NC_021160.1	Ca_Kabuli_Chr01	29791470	AA	TT	TT	INTERGENIC			
SNP_3218_A_29792284	NC_021160.1	Ca_Kabuli_Chr01	29792284	GG	AA	AA	INTERGENIC			
SNP_3219_A_29792735	NC_021160.1	Ca_Kabuli_Chr01	29792735	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3220_A_29796606	NC_021160.1	Ca_Kabuli_Chr01	29796606	CC	TT	TT	INTERGENIC			
SNP_3221_A_29817437	NC_021160.1	Ca_Kabuli_Chr01	29817437	CC	AA	AA	INTERGENIC			
SNP_3222_A_29817460	NC_021160.1	Ca_Kabuli_Chr01	29817460	AA	GG	GG	INTERGENIC			
SNP_3223_A_29817514	NC_021160.1	Ca_Kabuli_Chr01	29817514	CC	AA	AA	INTERGENIC			
SNP_3224_A_29817516	NC_021160.1	Ca_Kabuli_Chr01	29817516	TT	CC	CC	INTERGENIC			
SNP_3225_A_29817658	NC_021160.1	Ca_Kabuli_Chr01	29817658	CC	TT	TT	INTERGENIC			
SNP_3226_A_29817901	NC_021160.1	Ca_Kabuli_Chr01	29817901	TT	CC	CC	INTERGENIC			
SNP_3227_A_29817948	NC_021160.1	Ca_Kabuli_Chr01	29817948	GG	AA	AA	INTERGENIC			
SNP_3228_A_29817982	NC_021160.1	Ca_Kabuli_Chr01	29817982	CC	TT	TT	INTERGENIC			
SNP_3229_A_29818025	NC_021160.1	Ca_Kabuli_Chr01	29818025	TT	CC	CC	INTERGENIC			
SNP_3230_A_29818196	NC_021160.1	Ca_Kabuli_Chr01	29818196	CC	AA	AA	INTERGENIC			
SNP_3231_A_29818233	NC_021160.1	Ca_Kabuli_Chr01	29818233	AA	GG	GG	INTERGENIC			
SNP_3232_A_29818311	NC_021160.1	Ca_Kabuli_Chr01	29818311	TT	CC	CC	INTERGENIC			
SNP_3233_A_29818367	NC_021160.1	Ca_Kabuli_Chr01	29818367	AA	GG	GG	INTERGENIC			
SNP_3234_A_29818390	NC_021160.1	Ca_Kabuli_Chr01	29818390	AA	GG	GG	INTERGENIC			
SNP_3235_A_29818474	NC_021160.1	Ca_Kabuli_Chr01	29818474	AA	GG	GG	INTERGENIC			
SNP_3236_A_29818597	NC_021160.1	Ca_Kabuli_Chr01	29818597	TT	CC	CC	INTERGENIC			
SNP_3237_A_29818601	NC_021160.1	Ca_Kabuli_Chr01	29818601	AA	GG	GG	INTERGENIC			
SNP_3238_A_29818605	NC_021160.1	Ca_Kabuli_Chr01	29818605	AA	CC	CC	INTERGENIC			
SNP_3239_A_29818615	NC_021160.1	Ca_Kabuli_Chr01	29818615	TT	CC	CC	INTERGENIC			
SNP_3240_A_29821705	NC_021160.1	Ca_Kabuli_Chr01	29821705	AA	CC	CC	INTERGENIC			
SNP_3241_A_29823411	NC_021160.1	Ca_Kabuli_Chr01	29823411	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3242_A_29823495	NC_021160.1	Ca_Kabuli_Chr01	29823495	AA	TT	TT	INTERGENIC			
SNP_3243_A_29823496	NC_021160.1	Ca_Kabuli_Chr01	29823496	TT	CC	CC	INTERGENIC			
SNP_3244_A_29823570	NC_021160.1	Ca_Kabuli_Chr01	29823570	CC	TT	TT	INTERGENIC			
SNP_3245_A_29823595	NC_021160.1	Ca_Kabuli_Chr01	29823595	CC	TT	TT	INTERGENIC			
SNP_3246_A_29823812	NC_021160.1	Ca_Kabuli_Chr01	29823812	CC	AA	AA	INTERGENIC			
SNP_3247_A_29824286	NC_021160.1	Ca_Kabuli_Chr01	29824286	CC	TT	TT	INTERGENIC			
SNP_3248_A_29824320	NC_021160.1	Ca_Kabuli_Chr01	29824320	TT	AA	AA	INTERGENIC			
SNP_3249_A_29824668	NC_021160.1	Ca_Kabuli_Chr01	29824668	TT	CC	CC	INTERGENIC			
SNP_3250_A_29824738	NC_021160.1	Ca_Kabuli_Chr01	29824738	GG	AA	AA	INTERGENIC			
SNP_3251_A_29824753	NC_021160.1	Ca_Kabuli_Chr01	29824753	AA	TT	TT	INTERGENIC			
SNP_3252_A_29824798	NC_021160.1	Ca_Kabuli_Chr01	29824798	CC	TT	TT	INTERGENIC			
SNP_3253_A_29824840	NC_021160.1	Ca_Kabuli_Chr01	29824840	TT	CC	CC	INTERGENIC			
SNP_3254_A_29824861	NC_021160.1	Ca_Kabuli_Chr01	29824861	GG	TT	TT	INTERGENIC			
SNP_3255_A_29824933	NC_021160.1	Ca_Kabuli_Chr01	29824933	GG	AA	AA	INTERGENIC			
SNP_3256_A_29824987	NC_021160.1	Ca_Kabuli_Chr01	29824987	GG	AA	AA	INTERGENIC			
SNP_3257_A_29825002	NC_021160.1	Ca_Kabuli_Chr01	29825002	CC	TT	TT	INTERGENIC			
SNP_3258_A_29825092	NC_021160.1	Ca_Kabuli_Chr01	29825092	GG	AA	AA	INTERGENIC			
SNP_3259_A_29825125	NC_021160.1	Ca_Kabuli_Chr01	29825125	GG	AA	AA	INTERGENIC			
SNP_3260_A_29825128	NC_021160.1	Ca_Kabuli_Chr01	29825128	TT	GG	GG	INTERGENIC			
SNP_3261_A_29825588	NC_021160.1	Ca_Kabuli_Chr01	29825588	AA	TT	TT	INTERGENIC			
SNP_3262_A_29830227	NC_021160.1	Ca_Kabuli_Chr01	29830227	TT	GG	GG	INTERGENIC			
SNP_3263_A_29841456	NC_021160.1	Ca_Kabuli_Chr01	29841456	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3264_A_29841629	NC_021160.1	Ca_Kabuli_Chr01	29841629	AA	CC	CC	INTERGENIC			
SNP_3265_A_29841835	NC_021160.1	Ca_Kabuli_Chr01	29841835	CC	TT	TT	INTERGENIC			
SNP_3266_A_29841895	NC_021160.1	Ca_Kabuli_Chr01	29841895	AA	GG	GG	INTERGENIC			
SNP_3267_A_29841949	NC_021160.1	Ca_Kabuli_Chr01	29841949	CC	AA	AA	INTERGENIC			
SNP_3268_A_29842165	NC_021160.1	Ca_Kabuli_Chr01	29842165	TT	CC	CC	INTERGENIC			
SNP_3269_A_29842268	NC_021160.1	Ca_Kabuli_Chr01	29842268	AA	GG	GG	INTERGENIC			
SNP_3270_A_29842342	NC_021160.1	Ca_Kabuli_Chr01	29842342	TT	AA	AA	INTERGENIC			
SNP_3271_A_29842394	NC_021160.1	Ca_Kabuli_Chr01	29842394	AA	GG	GG	INTERGENIC			
SNP_3272_A_29842411	NC_021160.1	Ca_Kabuli_Chr01	29842411	TT	GG	GG	INTERGENIC			
SNP_3274_A_29842636	NC_021160.1	Ca_Kabuli_Chr01	29842636	TT	CC	CC	INTERGENIC			
SNP_3275_A_29842637	NC_021160.1	Ca_Kabuli_Chr01	29842637	TT	CC	CC	INTERGENIC			
SNP_3276_A_29842658	NC_021160.1	Ca_Kabuli_Chr01	29842658	TT	AA	AA	INTERGENIC			
SNP_3277_A_29842683	NC_021160.1	Ca_Kabuli_Chr01	29842683	AA	CC	CC	INTERGENIC			
SNP_3278_A_29842732	NC_021160.1	Ca_Kabuli_Chr01	29842732	TT	CC	CC	INTERGENIC			
SNP_3279_A_29842772	NC_021160.1	Ca_Kabuli_Chr01	29842772	AA	GG	GG	INTERGENIC			
SNP_3280_A_29843494	NC_021160.1	Ca_Kabuli_Chr01	29843494	CC	AA	AA	INTERGENIC			
SNP_3281_A_29843549	NC_021160.1	Ca_Kabuli_Chr01	29843549	CC	TT	TT	INTERGENIC			
SNP_3282_A_29843748	NC_021160.1	Ca_Kabuli_Chr01	29843748	AA	TT	TT	INTERGENIC			
SNP_3283_A_29843889	NC_021160.1	Ca_Kabuli_Chr01	29843889	TT	CC	CC	INTERGENIC			
SNP_3284_A_29844046	NC_021160.1	Ca_Kabuli_Chr01	29844046	AA	GG	GG	INTERGENIC			
SNP_3285_A_29844512	NC_021160.1	Ca_Kabuli_Chr01	29844512	TT	GG	GG	INTERGENIC			
SNP_3286_A_29844537	NC_021160.1	Ca_Kabuli_Chr01	29844537	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3287_A_29844633	NC_021160.1	Ca_Kabuli_Chr01	29844633	CC	TT	TT	INTERGENIC			
SNP_3288_A_29845069	NC_021160.1	Ca_Kabuli_Chr01	29845069	TT	GG	GG	INTERGENIC			
SNP_3289_A_29845249	NC_021160.1	Ca_Kabuli_Chr01	29845249	AA	TT	TT	INTERGENIC			
SNP_3290_A_29845517	NC_021160.1	Ca_Kabuli_Chr01	29845517	TT	AA	AA	INTERGENIC			
SNP_3291_A_29845533	NC_021160.1	Ca_Kabuli_Chr01	29845533	TT	CC	CC	INTERGENIC			
SNP_3292_A_29845806	NC_021160.1	Ca_Kabuli_Chr01	29845806	AA	CC	CC	INTERGENIC			
SNP_3293_A_29845918	NC_021160.1	Ca_Kabuli_Chr01	29845918	TT	CC	CC	INTERGENIC			
SNP_3294_A_29845923	NC_021160.1	Ca_Kabuli_Chr01	29845923	AA	TT	TT	INTERGENIC			
SNP_3295_A_29846237	NC_021160.1	Ca_Kabuli_Chr01	29846237	TT	CC	CC	INTERGENIC			
SNP_3296_A_29846270	NC_021160.1	Ca_Kabuli_Chr01	29846270	GG	AA	AA	INTERGENIC			
SNP_3297_A_29846295	NC_021160.1	Ca_Kabuli_Chr01	29846295	TT	CC	CC	INTERGENIC			
SNP_3298_A_29846392	NC_021160.1	Ca_Kabuli_Chr01	29846392	TT	GG	GG	INTERGENIC			
SNP_3299_A_29846428	NC_021160.1	Ca_Kabuli_Chr01	29846428	CC	AA	AA	INTERGENIC			
SNP_3300_A_29846434	NC_021160.1	Ca_Kabuli_Chr01	29846434	TT	GG	GG	INTERGENIC			
SNP_3302_A_29846574	NC_021160.1	Ca_Kabuli_Chr01	29846574	TT	AA	AA	INTERGENIC			
SNP_3305_A_29847045	NC_021160.1	Ca_Kabuli_Chr01	29847045	AA	TT	TT	INTERGENIC			
SNP_3306_A_29847336	NC_021160.1	Ca_Kabuli_Chr01	29847336	AA	GG	GG	INTERGENIC			
SNP_3307_A_29847500	NC_021160.1	Ca_Kabuli_Chr01	29847500	TT	CC	CC	INTERGENIC			
SNP_3308_A_29847534	NC_021160.1	Ca_Kabuli_Chr01	29847534	CC	TT	TT	INTERGENIC			
SNP_3309_A_29847570	NC_021160.1	Ca_Kabuli_Chr01	29847570	TT	CC	CC	INTERGENIC			
SNP_3310_A_29847608	NC_021160.1	Ca_Kabuli_Chr01	29847608	GG	AA	AA	INTERGENIC			
SNP_3311_A_29847781	NC_021160.1	Ca_Kabuli_Chr01	29847781	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3312_A_29847831	NC_021160.1	Ca_Kabuli_Chr01	29847831	AA	GG	GG	INTERGENIC			
SNP_3313_A_29847918	NC_021160.1	Ca_Kabuli_Chr01	29847918	GG	TT	TT	INTERGENIC			
SNP_3315_A_29848169	NC_021160.1	Ca_Kabuli_Chr01	29848169	CC	TT	TT	INTERGENIC			
SNP_3316_A_29848317	NC_021160.1	Ca_Kabuli_Chr01	29848317	AA	TT	TT	INTERGENIC			
SNP_3317_A_29848320	NC_021160.1	Ca_Kabuli_Chr01	29848320	TT	CC	CC	INTERGENIC			
SNP_3318_A_29848428	NC_021160.1	Ca_Kabuli_Chr01	29848428	CC	AA	AA	INTERGENIC			
SNP_3319_A_29848466	NC_021160.1	Ca_Kabuli_Chr01	29848466	GG	AA	AA	INTERGENIC			
SNP_3320_A_29848512	NC_021160.1	Ca_Kabuli_Chr01	29848512	GG	TT	TT	INTERGENIC			
SNP_3321_A_29848826	NC_021160.1	Ca_Kabuli_Chr01	29848826	TT	CC	CC	INTERGENIC			
SNP_3322_A_29848856	NC_021160.1	Ca_Kabuli_Chr01	29848856	GG	AA	AA	INTERGENIC			
SNP_3323_A_29848868	NC_021160.1	Ca_Kabuli_Chr01	29848868	GG	AA	AA	INTERGENIC			
SNP_3324_A_29848871	NC_021160.1	Ca_Kabuli_Chr01	29848871	GG	AA	AA	INTERGENIC			
SNP_3325_A_29848880	NC_021160.1	Ca_Kabuli_Chr01	29848880	GG	AA	AA	INTERGENIC			
SNP_3326_A_29849049	NC_021160.1	Ca_Kabuli_Chr01	29849049	GG	AA	AA	INTERGENIC			
SNP_3327_A_29849116	NC_021160.1	Ca_Kabuli_Chr01	29849116	CC	TT	TT	INTERGENIC			
SNP_3328_A_29849121	NC_021160.1	Ca_Kabuli_Chr01	29849121	TT	CC	CC	INTERGENIC			
SNP_3329_A_29849234	NC_021160.1	Ca_Kabuli_Chr01	29849234	GG	AA	AA	INTERGENIC			
SNP_3330_A_29849255	NC_021160.1	Ca_Kabuli_Chr01	29849255	GG	AA	AA	INTERGENIC			
SNP_3331_A_29849257	NC_021160.1	Ca_Kabuli_Chr01	29849257	GG	CC	CC	INTERGENIC			
SNP_3332_A_29849342	NC_021160.1	Ca_Kabuli_Chr01	29849342	CC	TT	TT	INTERGENIC			
SNP_3333_A_29849362	NC_021160.1	Ca_Kabuli_Chr01	29849362	CC	TT	TT	INTERGENIC			
SNP_3334_A_29849441	NC_021160.1	Ca_Kabuli_Chr01	29849441	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3335_A_29849553	NC_021160.1	Ca_Kabuli_Chr01	29849553	GG	AA	AA	INTERGENIC			
SNP_3336_A_29849617	NC_021160.1	Ca_Kabuli_Chr01	29849617	AA	GG	GG	INTERGENIC			
SNP_3337_A_29849659	NC_021160.1	Ca_Kabuli_Chr01	29849659	GG	AA	AA	INTERGENIC			
SNP_3338_A_29852030	NC_021160.1	Ca_Kabuli_Chr01	29852030	TT	CC	CC	INTERGENIC			
SNP_3339_A_29852340	NC_021160.1	Ca_Kabuli_Chr01	29852340	TT	CC	CC	INTERGENIC			
SNP_3340_A_29852469	NC_021160.1	Ca_Kabuli_Chr01	29852469	TT	GG	GG	INTERGENIC			
SNP_3341_A_29852480	NC_021160.1	Ca_Kabuli_Chr01	29852480	AA	GG	GG	INTERGENIC			
SNP_3342_A_29852482	NC_021160.1	Ca_Kabuli_Chr01	29852482	AA	TT	TT	INTERGENIC			
SNP_3343_A_29852517	NC_021160.1	Ca_Kabuli_Chr01	29852517	TT	CC	CC	INTERGENIC			
SNP_3344_A_29852946	NC_021160.1	Ca_Kabuli_Chr01	29852946	AA	CC	CC	INTERGENIC			
SNP_3345_A_29852947	NC_021160.1	Ca_Kabuli_Chr01	29852947	TT	AA	AA	INTERGENIC			
SNP_3346_A_29853003	NC_021160.1	Ca_Kabuli_Chr01	29853003	TT	AA	AA	INTERGENIC			
SNP_3348_A_29853554	NC_021160.1	Ca_Kabuli_Chr01	29853554	AA	CC	CC	INTERGENIC			
SNP_3350_A_29853836	NC_021160.1	Ca_Kabuli_Chr01	29853836	CC	AA	AA	INTERGENIC			
SNP_3351_A_29853930	NC_021160.1	Ca_Kabuli_Chr01	29853930	AA	CC	CC	INTERGENIC			
SNP_3352_A_29854080	NC_021160.1	Ca_Kabuli_Chr01	29854080	CC	AA	AA	INTERGENIC			
SNP_3353_A_29854109	NC_021160.1	Ca_Kabuli_Chr01	29854109	AA	GG	GG	INTERGENIC			
SNP_3354_A_29854145	NC_021160.1	Ca_Kabuli_Chr01	29854145	CC	AA	AA	INTERGENIC			
SNP_3355_A_29854146	NC_021160.1	Ca_Kabuli_Chr01	29854146	AA	CC	CC	INTERGENIC			
SNP_3356_A_29854233	NC_021160.1	Ca_Kabuli_Chr01	29854233	AA	GG	GG	INTERGENIC			
SNP_3357_A_29854356	NC_021160.1	Ca_Kabuli_Chr01	29854356	GG	AA	AA	INTERGENIC			
SNP_3358_A_29854408	NC_021160.1	Ca_Kabuli_Chr01	29854408	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3359_A_29854484	NC_021160.1	Ca_Kabuli_Chr01	29854484	TT	AA	AA	INTERGENIC			
SNP_3360_A_29854489	NC_021160.1	Ca_Kabuli_Chr01	29854489	AA	GG	GG	INTERGENIC			
SNP_3361_A_29854493	NC_021160.1	Ca_Kabuli_Chr01	29854493	AA	GG	GG	INTERGENIC			
SNP_3362_A_29854515	NC_021160.1	Ca_Kabuli_Chr01	29854515	CC	TT	TT	INTERGENIC			
SNP_3363_A_29854518	NC_021160.1	Ca_Kabuli_Chr01	29854518	AA	TT	TT	INTERGENIC			
SNP_3364_A_29854835	NC_021160.1	Ca_Kabuli_Chr01	29854835	GG	TT	TT	INTERGENIC			
SNP_3365_A_29854972	NC_021160.1	Ca_Kabuli_Chr01	29854972	AA	CC	CC	INTERGENIC			
SNP_3366_A_29854973	NC_021160.1	Ca_Kabuli_Chr01	29854973	TT	AA	AA	INTERGENIC			
SNP_3367_A_29855106	NC_021160.1	Ca_Kabuli_Chr01	29855106	CC	GG	GG	INTERGENIC			
SNP_3368_A_29855124	NC_021160.1	Ca_Kabuli_Chr01	29855124	TT	CC	CC	INTERGENIC			
SNP_3369_A_29855139	NC_021160.1	Ca_Kabuli_Chr01	29855139	CC	TT	TT	INTERGENIC			
SNP_3370_A_29855200	NC_021160.1	Ca_Kabuli_Chr01	29855200	TT	GG	GG	INTERGENIC			
SNP_3371_A_29855353	NC_021160.1	Ca_Kabuli_Chr01	29855353	TT	CC	CC	INTERGENIC			
SNP_3372_A_29855477	NC_021160.1	Ca_Kabuli_Chr01	29855477	CC	TT	TT	INTERGENIC			
SNP_3373_A_29855594	NC_021160.1	Ca_Kabuli_Chr01	29855594	AA	GG	GG	INTERGENIC			
SNP_3374_A_29855951	NC_021160.1	Ca_Kabuli_Chr01	29855951	GG	CC	CC	INTERGENIC			
SNP_3375_A_29856030	NC_021160.1	Ca_Kabuli_Chr01	29856030	CC	TT	TT	INTERGENIC			
SNP_3376_A_29856064	NC_021160.1	Ca_Kabuli_Chr01	29856064	TT	GG	GG	INTERGENIC			
SNP_3377_A_29856202	NC_021160.1	Ca_Kabuli_Chr01	29856202	CC	GG	GG	INTERGENIC			
SNP_3378_A_29856247	NC_021160.1	Ca_Kabuli_Chr01	29856247	CC	TT	TT	INTERGENIC			
SNP_3379_A_29856319	NC_021160.1	Ca_Kabuli_Chr01	29856319	TT	GG	GG	INTERGENIC			
SNP_3380_A_29856405	NC_021160.1	Ca_Kabuli_Chr01	29856405	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3381_A_29856439	NC_021160.1	Ca_Kabuli_Chr01	29856439	GG	AA	AA	INTERGENIC			
SNP_3383_A_29856845	NC_021160.1	Ca_Kabuli_Chr01	29856845	AA	TT	TT	INTERGENIC			
SNP_3384_A_29856986	NC_021160.1	Ca_Kabuli_Chr01	29856986	TT	CC	CC	INTERGENIC			
SNP_3385_A_29857084	NC_021160.1	Ca_Kabuli_Chr01	29857084	AA	TT	TT	INTERGENIC			
SNP_3386_A_29857164	NC_021160.1	Ca_Kabuli_Chr01	29857164	TT	GG	GG	INTERGENIC			
SNP_3387_A_29857237	NC_021160.1	Ca_Kabuli_Chr01	29857237	CC	TT	TT	INTERGENIC			
SNP_3388_A_29861701	NC_021160.1	Ca_Kabuli_Chr01	29861701	TT	AA	AA	INTERGENIC			
SNP_3389_A_29862080	NC_021160.1	Ca_Kabuli_Chr01	29862080	GG	AA	AA	INTERGENIC			
SNP_3390_A_29862089	NC_021160.1	Ca_Kabuli_Chr01	29862089	GG	TT	TT	INTERGENIC			
SNP_3392_A_29882289	NC_021160.1	Ca_Kabuli_Chr01	29882289	GG	TT	TT	INTERGENIC			
SNP_3393_A_29889195	NC_021160.1	Ca_Kabuli_Chr01	29889195	TT	CC	CC	DRR	101505173	uncharacterized LOC101505173	
SNP_3394_A_29922062	NC_021160.1	Ca_Kabuli_Chr01	29922062	AA	TT	TT	INTERGENIC			
SNP_3395_A_29932522	NC_021160.1	Ca_Kabuli_Chr01	29932522	AA	GG	GG	INTERGENIC			
SNP_3396_A_29932765	NC_021160.1	Ca_Kabuli_Chr01	29932765	TT	GG	GG	INTERGENIC			
SNP_3397_A_29932794	NC_021160.1	Ca_Kabuli_Chr01	29932794	CC	TT	TT	INTERGENIC			
SNP_3398_A_29936628	NC_021160.1	Ca_Kabuli_Chr01	29936628	AA	TT	TT	INTERGENIC			
SNP_3399_A_29936738	NC_021160.1	Ca_Kabuli_Chr01	29936738	TT	CC	CC	INTERGENIC			
SNP_3400_A_29936749	NC_021160.1	Ca_Kabuli_Chr01	29936749	TT	CC	CC	INTERGENIC			
SNP_3401_A_29936754	NC_021160.1	Ca_Kabuli_Chr01	29936754	GG	AA	AA	INTERGENIC			
SNP_3402_A_29936769	NC_021160.1	Ca_Kabuli_Chr01	29936769	CC	AA	AA	INTERGENIC			
SNP_3403_A_29980806	NC_021160.1	Ca_Kabuli_Chr01	29980806	TT	AA	AA	INTERGENIC			
SNP_3404_A_29984997	NC_021160.1	Ca_Kabuli_Chr01	29984997	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3405_A_30001520	NC_021160.1	Ca_Kabuli_Chr01	30001520	AA	CC	CC	INTERGENIC		
SNP_3406_A_30007816	NC_021160.1	Ca_Kabuli_Chr01	30007816	CC	TT	TT	INTERGENIC		
SNP_3407_A_30008062	NC_021160.1	Ca_Kabuli_Chr01	30008062	TT	GG	GG	INTERGENIC		
SNP_3408_A_30038464	NC_021160.1	Ca_Kabuli_Chr01	30038464	AA	CC	CC	INTERGENIC		
SNP_3409_A_30064386	NC_021160.1	Ca_Kabuli_Chr01	30064386	GG	AA	AA	INTERGENIC		
SNP_3410_A_30064552	NC_021160.1	Ca_Kabuli_Chr01	30064552	CC	TT	TT	INTERGENIC		
SNP_3411_A_30111260	NC_021160.1	Ca_Kabuli_Chr01	30111260	AA	TT	TT	INTERGENIC		
SNP_3412_A_30111434	NC_021160.1	Ca_Kabuli_Chr01	30111434	AA	GG	GG	INTERGENIC		
SNP_3413_A_30111441	NC_021160.1	Ca_Kabuli_Chr01	30111441	TT	GG	GG	INTERGENIC		
SNP_3414_A_30111444	NC_021160.1	Ca_Kabuli_Chr01	30111444	CC	TT	TT	INTERGENIC		
SNP_3415_A_30117305	NC_021160.1	Ca_Kabuli_Chr01	30117305	GG	TT	TT	INTERGENIC		
SNP_3416_A_30117422	NC_021160.1	Ca_Kabuli_Chr01	30117422	TT	GG	GG	INTERGENIC		
SNP_3417_A_30125855	NC_021160.1	Ca_Kabuli_Chr01	30125855	AA	GG	GG	INTERGENIC		
SNP_3418_A_30138450	NC_021160.1	Ca_Kabuli_Chr01	30138450	GG	AA	AA	INTERGENIC		
SNP_3419_A_30150535	NC_021160.1	Ca_Kabuli_Chr01	30150535	TT	AA	AA	INTERGENIC		
SNP_3420_A_30151130	NC_021160.1	Ca_Kabuli_Chr01	30151130	AA	GG	GG	INTERGENIC		
SNP_3421_A_30157130	NC_021160.1	Ca_Kabuli_Chr01	30157130	TT	CC	CC	INTRON	101512774	uncharacterized LOC101512774
SNP_3422_A_30161334	NC_021160.1	Ca_Kabuli_Chr01	30161334	GG	TT	TT	URR	101512774	uncharacterized LOC101512774
SNP_3423_A_30162973	NC_021160.1	Ca_Kabuli_Chr01	30162973	TT	CC	CC	INTERGENIC		
SNP_3424_A_30175876	NC_021160.1	Ca_Kabuli_Chr01	30175876	TT	CC	CC	NON_SYNONYMOUS_CODING	101507131	putative phospholipid-transporting ATPase 9
SNP_3425_A_30181097	NC_021160.1	Ca_Kabuli_Chr01	30181097	GG	AA	AA	INTRON	101507131	putative phospholipid-transporting ATPase 9
SNP_3426_A_30183436	NC_021160.1	Ca_Kabuli_Chr01	30183436	AA	CC	CC	INTRON	101507131	putative phospholipid-transporting ATPase 9

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3427_A_30196462	NC_021160.1	Ca_Kabuli_Chr01	30196462	GG	AA	AA	INTRON	101513098	sialidase-like
SNP_3428_A_30196760	NC_021160.1	Ca_Kabuli_Chr01	30196760	GG	AA	AA	INTRON	101513098	sialidase-like
SNP_3429_A_30196805	NC_021160.1	Ca_Kabuli_Chr01	30196805	GG	AA	AA	INTRON	101513098	sialidase-like
SNP_3431_A_30197070	NC_021160.1	Ca_Kabuli_Chr01	30197070	GG	TT	TT	NON_SYNONYMOUS_CODING	101513098	sialidase-like
SNP_3432_A_30219772	NC_021160.1	Ca_Kabuli_Chr01	30219772	CC	AA	AA	INTERGENIC		
SNP_3433_A_30219780	NC_021160.1	Ca_Kabuli_Chr01	30219780	GG	TT	TT	INTERGENIC		
SNP_3434_A_30255590	NC_021160.1	Ca_Kabuli_Chr01	30255590	AA	CC	CC	INTERGENIC		
SNP_3435_A_30259303	NC_021160.1	Ca_Kabuli_Chr01	30259303	CC	TT	TT	INTERGENIC		
SNP_3436_A_30259491	NC_021160.1	Ca_Kabuli_Chr01	30259491	GG	TT	TT	DRR	101508275	kinesin-like protein KIF19
SNP_3437_A_30259549	NC_021160.1	Ca_Kabuli_Chr01	30259549	AA	GG	GG	DRR	101508275	kinesin-like protein KIF19
SNP_3438_A_30259838	NC_021160.1	Ca_Kabuli_Chr01	30259838	GG	AA	AA	DRR	101508275	kinesin-like protein KIF19
SNP_3439_A_30259902	NC_021160.1	Ca_Kabuli_Chr01	30259902	CC	AA	AA	DRR	101508275	kinesin-like protein KIF19
SNP_3440_A_30263986	NC_021160.1	Ca_Kabuli_Chr01	30263986	TT	CC	CC	URR	101508275	kinesin-like protein KIF19
SNP_3441_A_30263994	NC_021160.1	Ca_Kabuli_Chr01	30263994	CC	GG	GG	URR	101508275	kinesin-like protein KIF19
SNP_3442_A_30264021	NC_021160.1	Ca_Kabuli_Chr01	30264021	GG	AA	AA	URR	101508275	kinesin-like protein KIF19
SNP_3443_A_30264023	NC_021160.1	Ca_Kabuli_Chr01	30264023	CC	AA	AA	URR	101508275	kinesin-like protein KIF19
SNP_3444_A_30264672	NC_021160.1	Ca_Kabuli_Chr01	30264672	AA	TT	TT	URR	101508275	kinesin-like protein KIF19
SNP_3445_A_30273201	NC_021160.1	Ca_Kabuli_Chr01	30273201	CC	TT	TT	INTERGENIC		
SNP_3446_A_30284934	NC_021160.1	Ca_Kabuli_Chr01	30284934	AA	TT	TT	INTERGENIC		
SNP_3447_A_30293710	NC_021160.1	Ca_Kabuli_Chr01	30293710	TT	CC	CC	INTERGENIC		
SNP_3448_A_30305191	NC_021160.1	Ca_Kabuli_Chr01	30305191	CC	TT	TT	INTERGENIC		
SNP_3449_A_30323434	NC_021160.1	Ca_Kabuli_Chr01	30323434	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3450_A_30424150	NC_021160.1	Ca_Kabuli_Chr01	30424150	TT	CC	CC	INTERGENIC			
SNP_3452_A_30446785	NC_021160.1	Ca_Kabuli_Chr01	30446785	CC	TT	TT	INTERGENIC			
SNP_3454_A_30460857	NC_021160.1	Ca_Kabuli_Chr01	30460857	TT	CC	CC	INTERGENIC			
SNP_3455_A_30460891	NC_021160.1	Ca_Kabuli_Chr01	30460891	GG	TT	TT	INTERGENIC			
SNP_3456_A_30460892	NC_021160.1	Ca_Kabuli_Chr01	30460892	TT	CC	CC	INTERGENIC			
SNP_3457_A_30460933	NC_021160.1	Ca_Kabuli_Chr01	30460933	TT	CC	CC	INTERGENIC			
SNP_3458_A_30460953	NC_021160.1	Ca_Kabuli_Chr01	30460953	AA	GG	GG	INTERGENIC			
SNP_3459_A_30461178	NC_021160.1	Ca_Kabuli_Chr01	30461178	GG	AA	AA	INTERGENIC			
SNP_3460_A_30461207	NC_021160.1	Ca_Kabuli_Chr01	30461207	TT	CC	CC	INTERGENIC			
SNP_3461_A_30461279	NC_021160.1	Ca_Kabuli_Chr01	30461279	GG	AA	AA	INTERGENIC			
SNP_3462_A_30461292	NC_021160.1	Ca_Kabuli_Chr01	30461292	AA	TT	TT	INTERGENIC			
SNP_3463_A_30461297	NC_021160.1	Ca_Kabuli_Chr01	30461297	GG	AA	AA	INTERGENIC			
SNP_3464_A_30461336	NC_021160.1	Ca_Kabuli_Chr01	30461336	CC	TT	TT	INTERGENIC			
SNP_3465_A_30475446	NC_021160.1	Ca_Kabuli_Chr01	30475446	AA	GG	GG	INTERGENIC			
SNP_3466_A_30475485	NC_021160.1	Ca_Kabuli_Chr01	30475485	AA	GG	GG	INTERGENIC			
SNP_3467_A_30475502	NC_021160.1	Ca_Kabuli_Chr01	30475502	CC	TT	TT	INTERGENIC			
SNP_3469_A_30475540	NC_021160.1	Ca_Kabuli_Chr01	30475540	TT	CC	CC	INTERGENIC			
SNP_3470_A_30475581	NC_021160.1	Ca_Kabuli_Chr01	30475581	TT	AA	AA	INTERGENIC			
SNP_3471_A_30508804	NC_021160.1	Ca_Kabuli_Chr01	30508804	AA	TT	TT	INTERGENIC			
SNP_3472_A_30508821	NC_021160.1	Ca_Kabuli_Chr01	30508821	AA	TT	TT	INTERGENIC			
SNP_3473_A_30509164	NC_021160.1	Ca_Kabuli_Chr01	30509164	AA	CC	CC	INTERGENIC			
SNP_3474_A_30509351	NC_021160.1	Ca_Kabuli_Chr01	30509351	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3475_A_30543426	NC_021160.1	Ca_Kabuli_Chr01	30543426	TT	AA	AA	INTERGENIC		
SNP_3476_A_30585458	NC_021160.1	Ca_Kabuli_Chr01	30585458	AA	GG	GG	INTERGENIC		
SNP_3477_A_30591180	NC_021160.1	Ca_Kabuli_Chr01	30591180	GG	AA	AA	INTERGENIC		
SNP_3479_A_30663367	NC_021160.1	Ca_Kabuli_Chr01	30663367	GG	AA	AA	INTERGENIC		
SNP_3481_A_30725547	NC_021160.1	Ca_Kabuli_Chr01	30725547	TT	GG	GG	INTERGENIC		
SNP_3482_A_30725845	NC_021160.1	Ca_Kabuli_Chr01	30725845	AA	GG	GG	INTERGENIC		
SNP_3483_A_30738524	NC_021160.1	Ca_Kabuli_Chr01	30738524	CC	AA	AA	INTERGENIC		
SNP_3485_A_30740232	NC_021160.1	Ca_Kabuli_Chr01	30740232	GG	TT	TT	DRR	101488811	serine carboxypeptidase-like 45
SNP_3486_A_30740325	NC_021160.1	Ca_Kabuli_Chr01	30740325	CC	AA	AA	DRR	101488811	serine carboxypeptidase-like 45
SNP_3487_A_30740326	NC_021160.1	Ca_Kabuli_Chr01	30740326	GG	CC	CC	DRR	101488811	serine carboxypeptidase-like 45
SNP_3488_A_30740444	NC_021160.1	Ca_Kabuli_Chr01	30740444	TT	CC	CC	DRR	101488811	serine carboxypeptidase-like 45
SNP_3489_A_30740872	NC_021160.1	Ca_Kabuli_Chr01	30740872	CC	TT	TT	INTRON	101488811	serine carboxypeptidase-like 45
SNP_3490_A_30741262	NC_021160.1	Ca_Kabuli_Chr01	30741262	AA	GG	GG	INTRON	101488811	serine carboxypeptidase-like 45
SNP_3491_A_30745398	NC_021160.1	Ca_Kabuli_Chr01	30745398	TT	CC	CC	URR	101488811	serine carboxypeptidase-like 45
SNP_3493_A_30745732	NC_021160.1	Ca_Kabuli_Chr01	30745732	TT	CC	CC	URR	101488811	serine carboxypeptidase-like 45
SNP_3494_A_30745796	NC_021160.1	Ca_Kabuli_Chr01	30745796	GG	TT	TT	URR	101488811	serine carboxypeptidase-like 45
SNP_3495_A_30746111	NC_021160.1	Ca_Kabuli_Chr01	30746111	CC	AA	AA	URR	101488811	serine carboxypeptidase-like 45
SNP_3496_A_30754969	NC_021160.1	Ca_Kabuli_Chr01	30754969	GG	AA	AA	INTERGENIC		
SNP_3497_A_30756962	NC_021160.1	Ca_Kabuli_Chr01	30756962	CC	AA	AA	INTERGENIC		
SNP_3498_A_30762238	NC_021160.1	Ca_Kabuli_Chr01	30762238	CC	TT	TT	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3499_A_30762343	NC_021160.1	Ca_Kabuli_Chr01	30762343	TT	CC	CC	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3500_A_30762370	NC_021160.1	Ca_Kabuli_Chr01	30762370	CC	TT	TT	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3501_A_30762386	NC_021160.1	Ca_Kabuli_Chr01	30762386	GG	AA	AA	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3502_A_30762418	NC_021160.1	Ca_Kabuli_Chr01	30762418	AA	GG	GG	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3503_A_30762645	NC_021160.1	Ca_Kabuli_Chr01	30762645	TT	GG	GG	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3504_A_30762737	NC_021160.1	Ca_Kabuli_Chr01	30762737	AA	GG	GG	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3505_A_30762750	NC_021160.1	Ca_Kabuli_Chr01	30762750	GG	TT	TT	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3506_A_30762761	NC_021160.1	Ca_Kabuli_Chr01	30762761	GG	TT	TT	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3507_A_30762791	NC_021160.1	Ca_Kabuli_Chr01	30762791	CC	AA	AA	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3508_A_30762935	NC_021160.1	Ca_Kabuli_Chr01	30762935	TT	AA	AA	URR	101511274	2-alkenal reductase (NADP(+)-dependent)-like
SNP_3509_A_30766734	NC_021160.1	Ca_Kabuli_Chr01	30766734	CC	TT	TT	INTERGENIC		
SNP_3510_A_30770137	NC_021160.1	Ca_Kabuli_Chr01	30770137	CC	TT	TT	DRR	101512127	probable sugar phosphate/phosphate translocator At4g32390
SNP_3512_A_30770392	NC_021160.1	Ca_Kabuli_Chr01	30770392	GG	AA	AA	DRR	101512127	probable sugar phosphate/phosphate translocator At4g32390
SNP_3513_A_30770958	NC_021160.1	Ca_Kabuli_Chr01	30770958	CC	GG	GG	INTERGENIC		
SNP_3514_A_30771037	NC_021160.1	Ca_Kabuli_Chr01	30771037	GG	TT	TT	INTERGENIC		
SNP_3515_A_30771411	NC_021160.1	Ca_Kabuli_Chr01	30771411	GG	AA	AA	INTERGENIC		
SNP_3517_A_30786197	NC_021160.1	Ca_Kabuli_Chr01	30786197	GG	AA	AA	INTERGENIC		
SNP_3518_A_30786220	NC_021160.1	Ca_Kabuli_Chr01	30786220	AA	GG	GG	INTERGENIC		
SNP_3519_A_30786534	NC_021160.1	Ca_Kabuli_Chr01	30786534	GG	TT	TT	INTERGENIC		
SNP_3520_A_30786883	NC_021160.1	Ca_Kabuli_Chr01	30786883	GG	TT	TT	INTERGENIC		
SNP_3521_A_30786974	NC_021160.1	Ca_Kabuli_Chr01	30786974	CC	TT	TT	INTERGENIC		
SNP_3523_A_30790976	NC_021160.1	Ca_Kabuli_Chr01	30790976	TT	AA	AA	INTERGENIC		
SNP_3524_A_30792345	NC_021160.1	Ca_Kabuli_Chr01	30792345	CC	AA	AA	INTERGENIC		
SNP_3525_A_30792409	NC_021160.1	Ca_Kabuli_Chr01	30792409	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3526_A_30801120	NC_021160.1	Ca_Kabuli_Chr01	30801120	TT	AA	AA	INTERGENIC		
SNP_3527_A_30801153	NC_021160.1	Ca_Kabuli_Chr01	30801153	TT	CC	CC	INTERGENIC		
SNP_3528_A_30808058	NC_021160.1	Ca_Kabuli_Chr01	30808058	AA	CC	CC	INTERGENIC		
SNP_3529_A_30808062	NC_021160.1	Ca_Kabuli_Chr01	30808062	AA	TT	TT	INTERGENIC		
SNP_3530_A_30821504	NC_021160.1	Ca_Kabuli_Chr01	30821504	GG	TT	TT	INTERGENIC		
SNP_3531_A_30821740	NC_021160.1	Ca_Kabuli_Chr01	30821740	CC	TT	TT	INTERGENIC		
SNP_3532_A_30823413	NC_021160.1	Ca_Kabuli_Chr01	30823413	AA	GG	GG	DRR	101489136	tetraspanin-11-like
SNP_3533_A_30824547	NC_021160.1	Ca_Kabuli_Chr01	30824547	CC	GG	GG	INTRON	101489136	tetraspanin-11-like
SNP_3534_A_30829880	NC_021160.1	Ca_Kabuli_Chr01	30829880	TT	CC	CC	INTERGENIC		
SNP_3535_A_30831400	NC_021160.1	Ca_Kabuli_Chr01	30831400	TT	CC	CC	INTERGENIC		
SNP_3536_A_30845574	NC_021160.1	Ca_Kabuli_Chr01	30845574	AA	GG	GG	INTERGENIC		
SNP_3537_A_30849118	NC_021160.1	Ca_Kabuli_Chr01	30849118	GG	AA	AA	INTERGENIC		
SNP_3538_A_30859503	NC_021160.1	Ca_Kabuli_Chr01	30859503	CC	TT	TT	INTERGENIC		
SNP_3539_A_30862784	NC_021160.1	Ca_Kabuli_Chr01	30862784	AA	TT	TT	INTERGENIC		
SNP_3540_A_30863196	NC_021160.1	Ca_Kabuli_Chr01	30863196	TT	GG	GG	INTERGENIC		
SNP_3541_A_30863253	NC_021160.1	Ca_Kabuli_Chr01	30863253	AA	GG	GG	INTERGENIC		
SNP_3542_A_30863813	NC_021160.1	Ca_Kabuli_Chr01	30863813	TT	AA	AA	INTERGENIC		
SNP_3544_A_30887888	NC_021160.1	Ca_Kabuli_Chr01	30887888	CC	TT	TT	INTERGENIC		
SNP_3545_A_30887907	NC_021160.1	Ca_Kabuli_Chr01	30887907	GG	TT	TT	INTERGENIC		
SNP_3546_A_30889303	NC_021160.1	Ca_Kabuli_Chr01	30889303	AA	GG	GG	INTERGENIC		
SNP_3547_A_30889349	NC_021160.1	Ca_Kabuli_Chr01	30889349	AA	GG	GG	INTERGENIC		
SNP_3548_A_30889430	NC_021160.1	Ca_Kabuli_Chr01	30889430	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3549_A_30889823	NC_021160.1	Ca_Kabuli_Chr01	30889823	CC	TT	TT	INTERGENIC		
SNP_3550_A_30890087	NC_021160.1	Ca_Kabuli_Chr01	30890087	TT	GG	GG	INTERGENIC		
SNP_3551_A_30918686	NC_021160.1	Ca_Kabuli_Chr01	30918686	GG	CC	CC	INTERGENIC		
SNP_3552_A_30929899	NC_021160.1	Ca_Kabuli_Chr01	30929899	GG	AA	AA	SPLICE_SITE_REGION	101490433	Unknown function
SNP_3553_A_30934025	NC_021160.1	Ca_Kabuli_Chr01	30934025	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3554_A_30934372	NC_021160.1	Ca_Kabuli_Chr01	30934372	GG	TT	TT	INTRON	101490433	Unknown function
SNP_3555_A_30934451	NC_021160.1	Ca_Kabuli_Chr01	30934451	AA	GG	GG	INTRON	101490433	Unknown function
SNP_3556_A_30934491	NC_021160.1	Ca_Kabuli_Chr01	30934491	GG	TT	TT	INTRON	101490433	Unknown function
SNP_3557_A_30934585	NC_021160.1	Ca_Kabuli_Chr01	30934585	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3558_A_30935572	NC_021160.1	Ca_Kabuli_Chr01	30935572	GG	AA	AA	INTRON	101490433	Unknown function
SNP_3559_A_30938094	NC_021160.1	Ca_Kabuli_Chr01	30938094	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3560_A_30938106	NC_021160.1	Ca_Kabuli_Chr01	30938106	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3561_A_30938125	NC_021160.1	Ca_Kabuli_Chr01	30938125	GG	TT	TT	INTRON	101490433	Unknown function
SNP_3562_A_30938197	NC_021160.1	Ca_Kabuli_Chr01	30938197	AA	GG	GG	INTRON	101490433	Unknown function
SNP_3563_A_30938199	NC_021160.1	Ca_Kabuli_Chr01	30938199	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3564_A_30938583	NC_021160.1	Ca_Kabuli_Chr01	30938583	TT	AA	AA	INTRON	101490433	Unknown function
SNP_3565_A_30938607	NC_021160.1	Ca_Kabuli_Chr01	30938607	CC	TT	TT	INTRON	101490433	Unknown function
SNP_3566_A_30945972	NC_021160.1	Ca_Kabuli_Chr01	30945972	GG	AA	AA	INTRON	101490433	Unknown function
SNP_3567_A_30956335	NC_021160.1	Ca_Kabuli_Chr01	30956335	GG	TT	TT	INTRON	101490433	Unknown function
SNP_3568_A_30956632	NC_021160.1	Ca_Kabuli_Chr01	30956632	AA	GG	GG	INTRON	101490433	Unknown function
SNP_3569_A_30956643	NC_021160.1	Ca_Kabuli_Chr01	30956643	TT	CC	CC	INTRON	101490433	Unknown function
SNP_3570_A_30957000	NC_021160.1	Ca_Kabuli_Chr01	30957000	GG	CC	CC	INTRON	101490433	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3571_A_30960535	NC_021160.1	Ca_Kabuli_Chr01	30960535	AA	CC	CC	INTRON	101490433	Unknown function
SNP_3572_A_30979410	NC_021160.1	Ca_Kabuli_Chr01	30979410	GG	AA	AA	INTERGENIC		
SNP_3574_A_30996914	NC_021160.1	Ca_Kabuli_Chr01	30996914	GG	AA	AA	INTERGENIC		
SNP_3575_A_31010293	NC_021160.1	Ca_Kabuli_Chr01	31010293	AA	TT	TT	INTERGENIC		
SNP_3576_A_31012213	NC_021160.1	Ca_Kabuli_Chr01	31012213	GG	AA	AA	INTERGENIC		
SNP_3577_A_31013722	NC_021160.1	Ca_Kabuli_Chr01	31013722	AA	GG	GG	INTERGENIC		
SNP_3578_A_31022049	NC_021160.1	Ca_Kabuli_Chr01	31022049	GG	AA	AA	INTERGENIC		
SNP_3579_A_31022078	NC_021160.1	Ca_Kabuli_Chr01	31022078	TT	CC	CC	INTERGENIC		
SNP_3580_A_31022085	NC_021160.1	Ca_Kabuli_Chr01	31022085	AA	GG	GG	INTERGENIC		
SNP_3581_A_31022122	NC_021160.1	Ca_Kabuli_Chr01	31022122	TT	CC	CC	INTERGENIC		
SNP_3582_A_31022235	NC_021160.1	Ca_Kabuli_Chr01	31022235	TT	CC	CC	INTERGENIC		
SNP_3583_A_31022238	NC_021160.1	Ca_Kabuli_Chr01	31022238	AA	GG	GG	INTERGENIC		
SNP_3584_A_31022254	NC_021160.1	Ca_Kabuli_Chr01	31022254	CC	TT	TT	INTERGENIC		
SNP_3585_A_31022266	NC_021160.1	Ca_Kabuli_Chr01	31022266	AA	GG	GG	INTERGENIC		
SNP_3586_A_31022285	NC_021160.1	Ca_Kabuli_Chr01	31022285	TT	CC	CC	INTERGENIC		
SNP_3587_A_31022299	NC_021160.1	Ca_Kabuli_Chr01	31022299	TT	AA	AA	INTERGENIC		
SNP_3588_A_31022314	NC_021160.1	Ca_Kabuli_Chr01	31022314	AA	CC	CC	INTERGENIC		
SNP_3589_A_31050802	NC_021160.1	Ca_Kabuli_Chr01	31050802	CC	TT	TT	INTERGENIC		
SNP_3590_A_31050832	NC_021160.1	Ca_Kabuli_Chr01	31050832	CC	AA	AA	INTERGENIC		
SNP_3591_A_31050853	NC_021160.1	Ca_Kabuli_Chr01	31050853	CC	TT	TT	INTERGENIC		
SNP_3592_A_31050900	NC_021160.1	Ca_Kabuli_Chr01	31050900	TT	CC	CC	INTERGENIC		
SNP_3593_A_31051182	NC_021160.1	Ca_Kabuli_Chr01	31051182	TT	CC	CC	INTERGENIC		

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SNP_3594_A_31051246	NC_021160.1	Ca_Kabuli_Chr01	31051246	CC	TT	TT	INTERGENIC			
SNP_3595_A_31057076	NC_021160.1	Ca_Kabuli_Chr01	31057076	GG	AA	AA	INTERGENIC			
SNP_3597_A_31064947	NC_021160.1	Ca_Kabuli_Chr01	31064947	TT	AA	AA	INTERGENIC			
SNP_3598_A_31072851	NC_021160.1	Ca_Kabuli_Chr01	31072851	TT	CC	CC	INTERGENIC			
SNP_3599_A_31076097	NC_021160.1	Ca_Kabuli_Chr01	31076097	CC	TT	TT	INTERGENIC			
SNP_3600_A_31078820	NC_021160.1	Ca_Kabuli_Chr01	31078820	AA	TT	TT	DRR	101489467	enolase 1, chloroplastic	
SNP_3602_A_31095691	NC_021160.1	Ca_Kabuli_Chr01	31095691	AA	TT	TT	INTERGENIC			
SNP_3603_A_31095692	NC_021160.1	Ca_Kabuli_Chr01	31095692	AA	CC	CC	INTERGENIC			
SNP_3605_A_31134462	NC_021160.1	Ca_Kabuli_Chr01	31134462	TT	AA	AA	INTERGENIC			
SNP_3606_A_31134660	NC_021160.1	Ca_Kabuli_Chr01	31134660	AA	GG	GG	INTERGENIC			
SNP_3608_A_31142428	NC_021160.1	Ca_Kabuli_Chr01	31142428	GG	AA	AA	INTERGENIC			
SNP_3609_A_31144251	NC_021160.1	Ca_Kabuli_Chr01	31144251	GG	CC	CC	INTERGENIC			
SNP_3611_A_31162897	NC_021160.1	Ca_Kabuli_Chr01	31162897	AA	TT	TT	INTERGENIC			
SNP_3612_A_31162909	NC_021160.1	Ca_Kabuli_Chr01	31162909	AA	TT	TT	INTERGENIC			
SNP_3613_A_31162917	NC_021160.1	Ca_Kabuli_Chr01	31162917	AA	CC	CC	INTERGENIC			
SNP_3614_A_31162948	NC_021160.1	Ca_Kabuli_Chr01	31162948	GG	AA	AA	INTERGENIC			
SNP_3615_A_31162952	NC_021160.1	Ca_Kabuli_Chr01	31162952	CC	GG	GG	INTERGENIC			
SNP_3617_A_31163570	NC_021160.1	Ca_Kabuli_Chr01	31163570	TT	CC	CC	INTERGENIC			
SNP_3618_A_31173355	NC_021160.1	Ca_Kabuli_Chr01	31173355	CC	GG	GG	INTERGENIC			
SNP_3619_A_31185950	NC_021160.1	Ca_Kabuli_Chr01	31185950	TT	CC	CC	INTERGENIC			
SNP_3620_A_31185962	NC_021160.1	Ca_Kabuli_Chr01	31185962	AA	GG	GG	INTERGENIC			
SNP_3621_A_31185981	NC_021160.1	Ca_Kabuli_Chr01	31185981	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3622_A_31187159	NC_021160.1	Ca_Kabuli_Chr01	31187159	AA	TT	TT	INTERGENIC		
SNP_3623_A_31188525	NC_021160.1	Ca_Kabuli_Chr01	31188525	CC	TT	TT	INTERGENIC		
SNP_3624_A_31189899	NC_021160.1	Ca_Kabuli_Chr01	31189899	AA	GG	GG	INTERGENIC		
SNP_3625_A_31200591	NC_021160.1	Ca_Kabuli_Chr01	31200591	GG	AA	AA	INTERGENIC		
SNP_3626_A_31201249	NC_021160.1	Ca_Kabuli_Chr01	31201249	TT	AA	AA	INTERGENIC		
SNP_3627_A_31211547	NC_021160.1	Ca_Kabuli_Chr01	31211547	AA	GG	GG	INTERGENIC		
SNP_3628_A_31217269	NC_021160.1	Ca_Kabuli_Chr01	31217269	AA	TT	TT	INTERGENIC		
SNP_3629_A_31217731	NC_021160.1	Ca_Kabuli_Chr01	31217731	AA	GG	GG	INTERGENIC		
SNP_3630_A_31217742	NC_021160.1	Ca_Kabuli_Chr01	31217742	AA	CC	CC	INTERGENIC		
SNP_3631_A_31218110	NC_021160.1	Ca_Kabuli_Chr01	31218110	AA	GG	GG	INTERGENIC		
SNP_3632_A_31218387	NC_021160.1	Ca_Kabuli_Chr01	31218387	TT	AA	AA	INTERGENIC		
SNP_3633_A_31218396	NC_021160.1	Ca_Kabuli_Chr01	31218396	GG	TT	TT	INTERGENIC		
SNP_3634_A_31218464	NC_021160.1	Ca_Kabuli_Chr01	31218464	CC	AA	AA	INTERGENIC		
SNP_3635_A_31218761	NC_021160.1	Ca_Kabuli_Chr01	31218761	GG	TT	TT	INTERGENIC		
SNP_3637_A_31218869	NC_021160.1	Ca_Kabuli_Chr01	31218869	AA	GG	GG	INTERGENIC		
SNP_3638_A_31223636	NC_021160.1	Ca_Kabuli_Chr01	31223636	CC	TT	TT	URR	101492696	cx9C motif-containing protein 4, mitochondrial
SNP_3639_A_31232804	NC_021160.1	Ca_Kabuli_Chr01	31232804	CC	TT	TT	INTERGENIC		
SNP_3640_A_31233459	NC_021160.1	Ca_Kabuli_Chr01	31233459	AA	GG	GG	DRR	101497008	Unknown function
SNP_3641_A_31234137	NC_021160.1	Ca_Kabuli_Chr01	31234137	GG	AA	AA	DRR	101497008	Unknown function
SNP_3643_A_31253242	NC_021160.1	Ca_Kabuli_Chr01	31253242	TT	CC	CC	INTERGENIC		
SNP_3644_A_31280968	NC_021160.1	Ca_Kabuli_Chr01	31280968	TT	CC	CC	INTERGENIC		
SNP_3645_A_31305194	NC_021160.1	Ca_Kabuli_Chr01	31305194	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3646_A_31307549	NC_021160.1	Ca_Kabuli_Chr01	31307549	AA	GG	GG	INTERGENIC		
SNP_3647_A_31307700	NC_021160.1	Ca_Kabuli_Chr01	31307700	AA	GG	GG	INTERGENIC		
SNP_3648_A_31309226	NC_021160.1	Ca_Kabuli_Chr01	31309226	CC	GG	GG	INTERGENIC		
SNP_3649_A_31310323	NC_021160.1	Ca_Kabuli_Chr01	31310323	TT	GG	GG	INTERGENIC		
SNP_3650_A_31310412	NC_021160.1	Ca_Kabuli_Chr01	31310412	CC	TT	TT	INTERGENIC		
SNP_3651_A_31310535	NC_021160.1	Ca_Kabuli_Chr01	31310535	AA	GG	GG	INTERGENIC		
SNP_3652_A_31320091	NC_021160.1	Ca_Kabuli_Chr01	31320091	CC	TT	TT	INTERGENIC		
SNP_3653_A_31337119	NC_021160.1	Ca_Kabuli_Chr01	31337119	CC	TT	TT	INTERGENIC		
SNP_3654_A_31338132	NC_021160.1	Ca_Kabuli_Chr01	31338132	CC	AA	AA	DRR	101498322	cystatin-1-like
SNP_3655_A_31357801	NC_021160.1	Ca_Kabuli_Chr01	31357801	TT	AA	AA	INTERGENIC		
SNP_3656_A_31398241	NC_021160.1	Ca_Kabuli_Chr01	31398241	TT	CC	CC	URR	101494842	polygalacturonase-like
SNP_3657_A_31399682	NC_021160.1	Ca_Kabuli_Chr01	31399682	GG	AA	AA	INTERGENIC		
SNP_3658_A_31407621	NC_021160.1	Ca_Kabuli_Chr01	31407621	GG	AA	AA	INTERGENIC		
SNP_3660_A_31428870	NC_021160.1	Ca_Kabuli_Chr01	31428870	GG	TT	TT	INTERGENIC		
SNP_3661_A_31440934	NC_021160.1	Ca_Kabuli_Chr01	31440934	CC	TT	TT	INTERGENIC		
SNP_3662_A_31443967	NC_021160.1	Ca_Kabuli_Chr01	31443967	TT	CC	CC	INTERGENIC		
SNP_3663_A_31443968	NC_021160.1	Ca_Kabuli_Chr01	31443968	TT	CC	CC	INTERGENIC		
SNP_3664_A_31448115	NC_021160.1	Ca_Kabuli_Chr01	31448115	AA	TT	TT	INTERGENIC		
SNP_3665_A_31455089	NC_021160.1	Ca_Kabuli_Chr01	31455089	GG	AA	AA	DRR	101495708	uncharacterized LOC101495708
SNP_3666_A_31455568	NC_021160.1	Ca_Kabuli_Chr01	31455568	CC	TT	TT	URR	101495171	uncharacterized LOC101495171
SNP_3667_A_31466789	NC_021160.1	Ca_Kabuli_Chr01	31466789	TT	CC	CC	INTERGENIC		
SNP_3668_A_31482201	NC_021160.1	Ca_Kabuli_Chr01	31482201	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3669_A_31482686	NC_021160.1	Ca_Kabuli_Chr01	31482686	TT	GG	GG	INTERGENIC		
SNP_3670_A_31491125	NC_021160.1	Ca_Kabuli_Chr01	31491125	AA	GG	GG	URR	101500270	uncharacterized LOC101500270
SNP_3671_A_31493683	NC_021160.1	Ca_Kabuli_Chr01	31493683	TT	CC	CC	INTERGENIC		
SNP_3672_A_31494120	NC_021160.1	Ca_Kabuli_Chr01	31494120	AA	CC	CC	INTERGENIC		
SNP_3673_A_31494217	NC_021160.1	Ca_Kabuli_Chr01	31494217	GG	AA	AA	INTERGENIC		
SNP_3674_A_31495076	NC_021160.1	Ca_Kabuli_Chr01	31495076	CC	TT	TT	INTERGENIC		
SNP_3675_A_31499014	NC_021160.1	Ca_Kabuli_Chr01	31499014	AA	GG	GG	INTERGENIC		
SNP_3676_A_31512866	NC_021160.1	Ca_Kabuli_Chr01	31512866	AA	GG	GG	INTERGENIC		
SNP_3677_A_31526252	NC_021160.1	Ca_Kabuli_Chr01	31526252	CC	AA	AA	INTERGENIC		
SNP_3678_A_31544294	NC_021160.1	Ca_Kabuli_Chr01	31544294	GG	TT	TT	INTERGENIC		
SNP_3679_A_31565055	NC_021160.1	Ca_Kabuli_Chr01	31565055	CC	TT	TT	DRR	101501228	Unknown function
SNP_3680_A_31568011	NC_021160.1	Ca_Kabuli_Chr01	31568011	TT	AA	AA	URR	101501228	Unknown function
SNP_3681_A_31568012	NC_021160.1	Ca_Kabuli_Chr01	31568012	GG	TT	TT	URR	101501228	Unknown function
SNP_3682_A_31584731	NC_021160.1	Ca_Kabuli_Chr01	31584731	GG	AA	AA	INTERGENIC		
SNP_3683_A_31585042	NC_021160.1	Ca_Kabuli_Chr01	31585042	TT	CC	CC	INTERGENIC		
SNP_3684_A_31585048	NC_021160.1	Ca_Kabuli_Chr01	31585048	CC	TT	TT	INTERGENIC		
SNP_3685_A_31586184	NC_021160.1	Ca_Kabuli_Chr01	31586184	GG	TT	TT	INTERGENIC		
SNP_3686_A_31592077	NC_021160.1	Ca_Kabuli_Chr01	31592077	GG	CC	CC	NON_SYNONYMOUS_CODING	101496695	uridine 5'-monophosphate synthase-like
SNP_3689_A_31592502	NC_021160.1	Ca_Kabuli_Chr01	31592502	AA	CC	CC	INTRON	101496695	uridine 5'-monophosphate synthase-like
SNP_3690_A_31592541	NC_021160.1	Ca_Kabuli_Chr01	31592541	GG	AA	AA	INTRON	101496695	uridine 5'-monophosphate synthase-like
SNP_3691_A_31592670	NC_021160.1	Ca_Kabuli_Chr01	31592670	AA	GG	GG	INTRON	101496695	uridine 5'-monophosphate synthase-like
SNP_3692_A_31592787	NC_021160.1	Ca_Kabuli_Chr01	31592787	TT	CC	CC	NON_SYNONYMOUS_CODING	101496695	uridine 5'-monophosphate synthase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3693_A_31599512	NC_021160.1	Ca_Kabuli_Chr01	31599512	TT	CC	CC	INTERGENIC			
SNP_3694_A_31599546	NC_021160.1	Ca_Kabuli_Chr01	31599546	TT	GG	GG	INTERGENIC			
SNP_3695_A_31599560	NC_021160.1	Ca_Kabuli_Chr01	31599560	TT	CC	CC	INTERGENIC			
SNP_3696_A_31599582	NC_021160.1	Ca_Kabuli_Chr01	31599582	TT	AA	AA	INTERGENIC			
SNP_3697_A_31599612	NC_021160.1	Ca_Kabuli_Chr01	31599612	TT	GG	GG	INTERGENIC			
SNP_3698_A_31599834	NC_021160.1	Ca_Kabuli_Chr01	31599834	CC	GG	GG	INTERGENIC			
SNP_3699_A_31600395	NC_021160.1	Ca_Kabuli_Chr01	31600395	AA	GG	GG	INTERGENIC			
SNP_3700_A_31600409	NC_021160.1	Ca_Kabuli_Chr01	31600409	CC	TT	TT	INTERGENIC			
SNP_3701_A_31600501	NC_021160.1	Ca_Kabuli_Chr01	31600501	GG	AA	AA	INTERGENIC			
SNP_3702_A_31600637	NC_021160.1	Ca_Kabuli_Chr01	31600637	TT	AA	AA	INTERGENIC			
SNP_3704_A_31601426	NC_021160.1	Ca_Kabuli_Chr01	31601426	GG	AA	AA	INTERGENIC			
SNP_3705_A_31610509	NC_021160.1	Ca_Kabuli_Chr01	31610509	AA	TT	TT	INTERGENIC			
SNP_3706_A_31612047	NC_021160.1	Ca_Kabuli_Chr01	31612047	CC	TT	TT	INTERGENIC			
SNP_3707_A_31612973	NC_021160.1	Ca_Kabuli_Chr01	31612973	TT	GG	GG	INTERGENIC			
SNP_3708_A_31612988	NC_021160.1	Ca_Kabuli_Chr01	31612988	TT	GG	GG	INTERGENIC			
SNP_3709_A_31626511	NC_021160.1	Ca_Kabuli_Chr01	31626511	GG	AA	AA	INTERGENIC			
SNP_3710_A_31627019	NC_021160.1	Ca_Kabuli_Chr01	31627019	AA	CC	CC	INTERGENIC			
SNP_3711_A_31627028	NC_021160.1	Ca_Kabuli_Chr01	31627028	AA	GG	GG	INTERGENIC			
SNP_3712_A_31627067	NC_021160.1	Ca_Kabuli_Chr01	31627067	GG	CC	CC	INTERGENIC			
SNP_3713_A_31627102	NC_021160.1	Ca_Kabuli_Chr01	31627102	CC	TT	TT	INTERGENIC			
SNP_3714_A_31627342	NC_021160.1	Ca_Kabuli_Chr01	31627342	CC	TT	TT	INTERGENIC			
SNP_3715_A_31627429	NC_021160.1	Ca_Kabuli_Chr01	31627429	CC	TT	TT	INTERGENIC			

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SNP_3716_A_31627507	NC_021160.1	Ca_Kabuli_Chr01	31627507	CC	TT	TT	INTERGENIC			
SNP_3717_A_31627508	NC_021160.1	Ca_Kabuli_Chr01	31627508	CC	TT	TT	INTERGENIC			
SNP_3718_A_31627512	NC_021160.1	Ca_Kabuli_Chr01	31627512	AA	GG	GG	INTERGENIC			
SNP_3719_A_31627522	NC_021160.1	Ca_Kabuli_Chr01	31627522	TT	GG	GG	INTERGENIC			
SNP_3720_A_31627536	NC_021160.1	Ca_Kabuli_Chr01	31627536	CC	TT	TT	INTERGENIC			
SNP_3721_A_31627537	NC_021160.1	Ca_Kabuli_Chr01	31627537	AA	GG	GG	INTERGENIC			
SNP_3722_A_31627547	NC_021160.1	Ca_Kabuli_Chr01	31627547	GG	TT	TT	INTERGENIC			
SNP_3723_A_31627619	NC_021160.1	Ca_Kabuli_Chr01	31627619	CC	GG	GG	INTERGENIC			
SNP_3724_A_31627621	NC_021160.1	Ca_Kabuli_Chr01	31627621	GG	TT	TT	INTERGENIC			
SNP_3725_A_31627689	NC_021160.1	Ca_Kabuli_Chr01	31627689	AA	GG	GG	INTERGENIC			
SNP_3726_A_31627733	NC_021160.1	Ca_Kabuli_Chr01	31627733	TT	CC	CC	INTERGENIC			
SNP_3727_A_31627736	NC_021160.1	Ca_Kabuli_Chr01	31627736	CC	TT	TT	INTERGENIC			
SNP_3728_A_31627791	NC_021160.1	Ca_Kabuli_Chr01	31627791	AA	TT	TT	INTERGENIC			
SNP_3729_A_31627793	NC_021160.1	Ca_Kabuli_Chr01	31627793	AA	CC	CC	INTERGENIC			
SNP_3730_A_31627843	NC_021160.1	Ca_Kabuli_Chr01	31627843	AA	TT	TT	INTERGENIC			
SNP_3731_A_31641374	NC_021160.1	Ca_Kabuli_Chr01	31641374	AA	GG	GG	NON_SYNONYMOUS_CODING	101501539		uncharacterized LOC101501539
SNP_3732_A_31641660	NC_021160.1	Ca_Kabuli_Chr01	31641660	AA	TT	TT	URR	101501539		uncharacterized LOC101501539
SNP_3733_A_31648781	NC_021160.1	Ca_Kabuli_Chr01	31648781	TT	CC	CC	INTERGENIC			
SNP_3734_A_31654854	NC_021160.1	Ca_Kabuli_Chr01	31654854	AA	CC	CC	INTERGENIC			
SNP_3735_A_31667537	NC_021160.1	Ca_Kabuli_Chr01	31667537	TT	AA	AA	INTERGENIC			
SNP_3736_A_31669446	NC_021160.1	Ca_Kabuli_Chr01	31669446	CC	GG	GG	INTERGENIC			
SNP_3737_A_31695425	NC_021160.1	Ca_Kabuli_Chr01	31695425	AA	GG	GG	INTERGENIC			

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SNP_3738_A_31695485	NC_021160.1	Ca_Kabuli_Chr01	31695485	AA	CC	CC	INTERGENIC			
SNP_3739_A_31710522	NC_021160.1	Ca_Kabuli_Chr01	31710522	GG	AA	AA	INTERGENIC			
SNP_3740_A_31710532	NC_021160.1	Ca_Kabuli_Chr01	31710532	GG	TT	TT	INTERGENIC			
SNP_3741_A_31710552	NC_021160.1	Ca_Kabuli_Chr01	31710552	GG	TT	TT	INTERGENIC			
SNP_3742_A_31716139	NC_021160.1	Ca_Kabuli_Chr01	31716139	TT	CC	CC	INTERGENIC			
SNP_3743_A_31716183	NC_021160.1	Ca_Kabuli_Chr01	31716183	TT	AA	AA	INTERGENIC			
SNP_3745_A_31716482	NC_021160.1	Ca_Kabuli_Chr01	31716482	AA	GG	GG	INTERGENIC			
SNP_3746_A_31716618	NC_021160.1	Ca_Kabuli_Chr01	31716618	CC	GG	GG	INTERGENIC			
SNP_3747_A_31716633	NC_021160.1	Ca_Kabuli_Chr01	31716633	GG	TT	TT	INTERGENIC			
SNP_3748_A_31716642	NC_021160.1	Ca_Kabuli_Chr01	31716642	TT	CC	CC	INTERGENIC			
SNP_3749_A_31722244	NC_021160.1	Ca_Kabuli_Chr01	31722244	AA	TT	TT	INTERGENIC			
SNP_3750_A_31725871	NC_021160.1	Ca_Kabuli_Chr01	31725871	CC	TT	TT	INTERGENIC			
SNP_3751_A_31726016	NC_021160.1	Ca_Kabuli_Chr01	31726016	TT	CC	CC	INTERGENIC			
SNP_3752_A_31726022	NC_021160.1	Ca_Kabuli_Chr01	31726022	CC	TT	TT	INTERGENIC			
SNP_3753_A_31726028	NC_021160.1	Ca_Kabuli_Chr01	31726028	AA	GG	GG	INTERGENIC			
SNP_3754_A_31726050	NC_021160.1	Ca_Kabuli_Chr01	31726050	TT	CC	CC	INTERGENIC			
SNP_3755_A_31726067	NC_021160.1	Ca_Kabuli_Chr01	31726067	CC	AA	AA	INTERGENIC			
SNP_3756_A_31726091	NC_021160.1	Ca_Kabuli_Chr01	31726091	CC	TT	TT	INTERGENIC			
SNP_3757_A_31726096	NC_021160.1	Ca_Kabuli_Chr01	31726096	AA	CC	CC	INTERGENIC			
SNP_3758_A_31726166	NC_021160.1	Ca_Kabuli_Chr01	31726166	TT	CC	CC	INTERGENIC			
SNP_3759_A_31726241	NC_021160.1	Ca_Kabuli_Chr01	31726241	GG	AA	AA	INTERGENIC			
SNP_3760_A_31726262	NC_021160.1	Ca_Kabuli_Chr01	31726262	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3761_A_31753794	NC_021160.1	Ca_Kabuli_Chr01	31753794	AA	GG	GG	INTERGENIC			
SNP_3762_A_31753828	NC_021160.1	Ca_Kabuli_Chr01	31753828	AA	TT	TT	INTERGENIC			
SNP_3763_A_31753830	NC_021160.1	Ca_Kabuli_Chr01	31753830	TT	AA	AA	INTERGENIC			
SNP_3764_A_31753831	NC_021160.1	Ca_Kabuli_Chr01	31753831	AA	TT	TT	INTERGENIC			
SNP_3767_A_31778693	NC_021160.1	Ca_Kabuli_Chr01	31778693	TT	AA	AA	INTERGENIC			
SNP_3768_A_31778803	NC_021160.1	Ca_Kabuli_Chr01	31778803	AA	TT	TT	INTERGENIC			
SNP_3769_A_31778865	NC_021160.1	Ca_Kabuli_Chr01	31778865	AA	GG	GG	INTERGENIC			
SNP_3770_A_31778898	NC_021160.1	Ca_Kabuli_Chr01	31778898	CC	GG	GG	INTERGENIC			
SNP_3771_A_31778976	NC_021160.1	Ca_Kabuli_Chr01	31778976	AA	GG	GG	INTERGENIC			
SNP_3772_A_31778982	NC_021160.1	Ca_Kabuli_Chr01	31778982	CC	TT	TT	INTERGENIC			
SNP_3773_A_31779039	NC_021160.1	Ca_Kabuli_Chr01	31779039	TT	CC	CC	INTERGENIC			
SNP_3774_A_31779046	NC_021160.1	Ca_Kabuli_Chr01	31779046	TT	CC	CC	INTERGENIC			
SNP_3775_A_31779048	NC_021160.1	Ca_Kabuli_Chr01	31779048	AA	GG	GG	INTERGENIC			
SNP_3776_A_31779054	NC_021160.1	Ca_Kabuli_Chr01	31779054	GG	AA	AA	INTERGENIC			
SNP_3777_A_31779306	NC_021160.1	Ca_Kabuli_Chr01	31779306	GG	TT	TT	INTERGENIC			
SNP_3778_A_31779376	NC_021160.1	Ca_Kabuli_Chr01	31779376	AA	GG	GG	INTERGENIC			
SNP_3779_A_31779547	NC_021160.1	Ca_Kabuli_Chr01	31779547	TT	GG	GG	INTERGENIC			
SNP_3780_A_31779587	NC_021160.1	Ca_Kabuli_Chr01	31779587	CC	TT	TT	INTERGENIC			
SNP_3781_A_31779601	NC_021160.1	Ca_Kabuli_Chr01	31779601	TT	CC	CC	INTERGENIC			
SNP_3782_A_31779617	NC_021160.1	Ca_Kabuli_Chr01	31779617	AA	CC	CC	INTERGENIC			
SNP_3783_A_31779693	NC_021160.1	Ca_Kabuli_Chr01	31779693	TT	AA	AA	INTERGENIC			
SNP_3784_A_31779720	NC_021160.1	Ca_Kabuli_Chr01	31779720	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3785_A_31779764	NC_021160.1	Ca_Kabuli_Chr01	31779764	AA	TT	TT	INTERGENIC			
SNP_3786_A_31779946	NC_021160.1	Ca_Kabuli_Chr01	31779946	TT	CC	CC	INTERGENIC			
SNP_3787_A_31780000	NC_021160.1	Ca_Kabuli_Chr01	31780000	TT	GG	GG	INTERGENIC			
SNP_3788_A_31780017	NC_021160.1	Ca_Kabuli_Chr01	31780017	AA	TT	TT	INTERGENIC			
SNP_3789_A_31780018	NC_021160.1	Ca_Kabuli_Chr01	31780018	AA	GG	GG	INTERGENIC			
SNP_3790_A_31780036	NC_021160.1	Ca_Kabuli_Chr01	31780036	TT	GG	GG	INTERGENIC			
SNP_3791_A_31780045	NC_021160.1	Ca_Kabuli_Chr01	31780045	CC	AA	AA	INTERGENIC			
SNP_3792_A_31780047	NC_021160.1	Ca_Kabuli_Chr01	31780047	CC	TT	TT	INTERGENIC			
SNP_3793_A_31780136	NC_021160.1	Ca_Kabuli_Chr01	31780136	AA	CC	CC	INTERGENIC			
SNP_3794_A_31781531	NC_021160.1	Ca_Kabuli_Chr01	31781531	TT	AA	AA	INTERGENIC			
SNP_3796_A_31783648	NC_021160.1	Ca_Kabuli_Chr01	31783648	CC	GG	GG	INTERGENIC			
SNP_3797_A_31783653	NC_021160.1	Ca_Kabuli_Chr01	31783653	CC	TT	TT	INTERGENIC			
SNP_3798_A_31783700	NC_021160.1	Ca_Kabuli_Chr01	31783700	GG	AA	AA	INTERGENIC			
SNP_3799_A_31783867	NC_021160.1	Ca_Kabuli_Chr01	31783867	GG	TT	TT	INTERGENIC			
SNP_3800_A_31783910	NC_021160.1	Ca_Kabuli_Chr01	31783910	GG	AA	AA	INTERGENIC			
SNP_3801_A_31784053	NC_021160.1	Ca_Kabuli_Chr01	31784053	TT	AA	AA	INTERGENIC			
SNP_3802_A_31784055	NC_021160.1	Ca_Kabuli_Chr01	31784055	TT	AA	AA	INTERGENIC			
SNP_3803_A_31784244	NC_021160.1	Ca_Kabuli_Chr01	31784244	GG	AA	AA	INTERGENIC			
SNP_3804_A_31784411	NC_021160.1	Ca_Kabuli_Chr01	31784411	GG	AA	AA	INTERGENIC			
SNP_3805_A_31784441	NC_021160.1	Ca_Kabuli_Chr01	31784441	TT	CC	CC	INTERGENIC			
SNP_3806_A_31784486	NC_021160.1	Ca_Kabuli_Chr01	31784486	TT	CC	CC	INTERGENIC			
SNP_3807_A_31784665	NC_021160.1	Ca_Kabuli_Chr01	31784665	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3808_A_31784718	NC_021160.1	Ca_Kabuli_Chr01	31784718	CC	GG	GG	INTERGENIC			
SNP_3809_A_31784851	NC_021160.1	Ca_Kabuli_Chr01	31784851	TT	CC	CC	INTERGENIC			
SNP_3810_A_31784886	NC_021160.1	Ca_Kabuli_Chr01	31784886	CC	TT	TT	INTERGENIC			
SNP_3811_A_31785061	NC_021160.1	Ca_Kabuli_Chr01	31785061	AA	GG	GG	INTERGENIC			
SNP_3812_A_31785115	NC_021160.1	Ca_Kabuli_Chr01	31785115	AA	TT	TT	INTERGENIC			
SNP_3813_A_31785154	NC_021160.1	Ca_Kabuli_Chr01	31785154	AA	TT	TT	INTERGENIC			
SNP_3814_A_31785186	NC_021160.1	Ca_Kabuli_Chr01	31785186	CC	GG	GG	INTERGENIC			
SNP_3815_A_31785187	NC_021160.1	Ca_Kabuli_Chr01	31785187	CC	TT	TT	INTERGENIC			
SNP_3816_A_31785298	NC_021160.1	Ca_Kabuli_Chr01	31785298	TT	GG	GG	INTERGENIC			
SNP_3817_A_31785322	NC_021160.1	Ca_Kabuli_Chr01	31785322	CC	TT	TT	INTERGENIC			
SNP_3818_A_31785336	NC_021160.1	Ca_Kabuli_Chr01	31785336	GG	AA	AA	INTERGENIC			
SNP_3819_A_31785386	NC_021160.1	Ca_Kabuli_Chr01	31785386	GG	AA	AA	INTERGENIC			
SNP_3820_A_31785396	NC_021160.1	Ca_Kabuli_Chr01	31785396	AA	TT	TT	INTERGENIC			
SNP_3821_A_31785448	NC_021160.1	Ca_Kabuli_Chr01	31785448	TT	GG	GG	INTERGENIC			
SNP_3822_A_31785449	NC_021160.1	Ca_Kabuli_Chr01	31785449	AA	TT	TT	INTERGENIC			
SNP_3823_A_31785496	NC_021160.1	Ca_Kabuli_Chr01	31785496	CC	TT	TT	INTERGENIC			
SNP_3824_A_31785537	NC_021160.1	Ca_Kabuli_Chr01	31785537	GG	AA	AA	INTERGENIC			
SNP_3825_A_31785582	NC_021160.1	Ca_Kabuli_Chr01	31785582	TT	CC	CC	INTERGENIC			
SNP_3826_A_31785585	NC_021160.1	Ca_Kabuli_Chr01	31785585	GG	CC	CC	INTERGENIC			
SNP_3827_A_31785628	NC_021160.1	Ca_Kabuli_Chr01	31785628	CC	AA	AA	INTERGENIC			
SNP_3828_A_31785648	NC_021160.1	Ca_Kabuli_Chr01	31785648	TT	GG	GG	INTERGENIC			
SNP_3829_A_31785664	NC_021160.1	Ca_Kabuli_Chr01	31785664	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3830_A_31785704	NC_021160.1	Ca_Kabuli_Chr01	31785704	GG	AA	AA	INTERGENIC			
SNP_3831_A_31785864	NC_021160.1	Ca_Kabuli_Chr01	31785864	AA	CC	CC	INTERGENIC			
SNP_3832_A_31785905	NC_021160.1	Ca_Kabuli_Chr01	31785905	CC	TT	TT	INTERGENIC			
SNP_3833_A_31786108	NC_021160.1	Ca_Kabuli_Chr01	31786108	AA	CC	CC	INTERGENIC			
SNP_3834_A_31786136	NC_021160.1	Ca_Kabuli_Chr01	31786136	TT	CC	CC	INTERGENIC			
SNP_3835_A_31786181	NC_021160.1	Ca_Kabuli_Chr01	31786181	AA	TT	TT	INTERGENIC			
SNP_3836_A_31786269	NC_021160.1	Ca_Kabuli_Chr01	31786269	AA	TT	TT	INTERGENIC			
SNP_3837_A_31786303	NC_021160.1	Ca_Kabuli_Chr01	31786303	TT	AA	AA	INTERGENIC			
SNP_3838_A_31786347	NC_021160.1	Ca_Kabuli_Chr01	31786347	AA	GG	GG	INTERGENIC			
SNP_3839_A_31786402	NC_021160.1	Ca_Kabuli_Chr01	31786402	CC	AA	AA	INTERGENIC			
SNP_3840_A_31786406	NC_021160.1	Ca_Kabuli_Chr01	31786406	AA	TT	TT	INTERGENIC			
SNP_3841_A_31786452	NC_021160.1	Ca_Kabuli_Chr01	31786452	CC	TT	TT	INTERGENIC			
SNP_3842_A_31786475	NC_021160.1	Ca_Kabuli_Chr01	31786475	TT	CC	CC	INTERGENIC			
SNP_3843_A_31786479	NC_021160.1	Ca_Kabuli_Chr01	31786479	AA	TT	TT	INTERGENIC			
SNP_3844_A_31786709	NC_021160.1	Ca_Kabuli_Chr01	31786709	TT	AA	AA	INTERGENIC			
SNP_3845_A_31786725	NC_021160.1	Ca_Kabuli_Chr01	31786725	AA	GG	GG	INTERGENIC			
SNP_3846_A_31792717	NC_021160.1	Ca_Kabuli_Chr01	31792717	AA	CC	CC	INTERGENIC			
SNP_3847_A_31795436	NC_021160.1	Ca_Kabuli_Chr01	31795436	GG	AA	AA	INTERGENIC			
SNP_3848_A_31795456	NC_021160.1	Ca_Kabuli_Chr01	31795456	GG	AA	AA	INTERGENIC			
SNP_3849_A_31795537	NC_021160.1	Ca_Kabuli_Chr01	31795537	AA	CC	CC	INTERGENIC			
SNP_3850_A_31795559	NC_021160.1	Ca_Kabuli_Chr01	31795559	GG	TT	TT	INTERGENIC			
SNP_3851_A_31795631	NC_021160.1	Ca_Kabuli_Chr01	31795631	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3852_A_31795655	NC_021160.1	Ca_Kabuli_Chr01	31795655	TT	AA	AA	INTERGENIC			
SNP_3853_A_31795660	NC_021160.1	Ca_Kabuli_Chr01	31795660	AA	TT	TT	INTERGENIC			
SNP_3854_A_31795682	NC_021160.1	Ca_Kabuli_Chr01	31795682	CC	TT	TT	INTERGENIC			
SNP_3855_A_31795690	NC_021160.1	Ca_Kabuli_Chr01	31795690	GG	AA	AA	INTERGENIC			
SNP_3856_A_31795695	NC_021160.1	Ca_Kabuli_Chr01	31795695	GG	AA	AA	INTERGENIC			
SNP_3857_A_31795739	NC_021160.1	Ca_Kabuli_Chr01	31795739	CC	AA	AA	INTERGENIC			
SNP_3858_A_31795858	NC_021160.1	Ca_Kabuli_Chr01	31795858	AA	GG	GG	INTERGENIC			
SNP_3859_A_31795940	NC_021160.1	Ca_Kabuli_Chr01	31795940	GG	TT	TT	INTERGENIC			
SNP_3861_A_31806090	NC_021160.1	Ca_Kabuli_Chr01	31806090	AA	GG	GG	INTERGENIC			
SNP_3862_A_31806321	NC_021160.1	Ca_Kabuli_Chr01	31806321	TT	CC	CC	INTERGENIC			
SNP_3863_A_31833625	NC_021160.1	Ca_Kabuli_Chr01	31833625	AA	GG	GG	INTERGENIC			
SNP_3864_A_31833630	NC_021160.1	Ca_Kabuli_Chr01	31833630	TT	CC	CC	INTERGENIC			
SNP_3865_A_31833632	NC_021160.1	Ca_Kabuli_Chr01	31833632	GG	TT	TT	INTERGENIC			
SNP_3866_A_31833779	NC_021160.1	Ca_Kabuli_Chr01	31833779	TT	CC	CC	INTERGENIC			
SNP_3867_A_31833781	NC_021160.1	Ca_Kabuli_Chr01	31833781	CC	TT	TT	INTERGENIC			
SNP_3868_A_31847886	NC_021160.1	Ca_Kabuli_Chr01	31847886	AA	TT	TT	INTERGENIC			
SNP_3869_A_31847891	NC_021160.1	Ca_Kabuli_Chr01	31847891	AA	GG	GG	INTERGENIC			
SNP_3870_A_31847905	NC_021160.1	Ca_Kabuli_Chr01	31847905	TT	GG	GG	INTERGENIC			
SNP_3871_A_31858770	NC_021160.1	Ca_Kabuli_Chr01	31858770	TT	CC	CC	INTERGENIC			
SNP_3872_A_31858790	NC_021160.1	Ca_Kabuli_Chr01	31858790	TT	CC	CC	INTERGENIC			
SNP_3873_A_31868664	NC_021160.1	Ca_Kabuli_Chr01	31868664	CC	GG	GG	INTERGENIC			
SNP_3874_A_31904644	NC_021160.1	Ca_Kabuli_Chr01	31904644	CC	TT	TT	INTRON	101503118	101503118	uncharacterized LOC101503118

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3875_A_31926842	NC_021160.1	Ca_Kabuli_Chr01	31926842	AA	GG	GG	INTRON	101503118	uncharacterized LOC101503118
SNP_3876_A_31930547	NC_021160.1	Ca_Kabuli_Chr01	31930547	AA	GG	GG	INTRON	101503118	uncharacterized LOC101503118
SNP_3877_A_31944788	NC_021160.1	Ca_Kabuli_Chr01	31944788	GG	AA	AA	INTRON	101503118	uncharacterized LOC101503118
SNP_3878_A_31946706	NC_021160.1	Ca_Kabuli_Chr01	31946706	AA	GG	GG	INTRON	101503118	uncharacterized LOC101503118
SNP_3879_A_31946717	NC_021160.1	Ca_Kabuli_Chr01	31946717	AA	GG	GG	INTRON	101503118	uncharacterized LOC101503118
SNP_3880_A_31946725	NC_021160.1	Ca_Kabuli_Chr01	31946725	AA	TT	TT	INTRON	101503118	uncharacterized LOC101503118
SNP_3881_A_31946746	NC_021160.1	Ca_Kabuli_Chr01	31946746	TT	GG	GG	INTRON	101503118	uncharacterized LOC101503118
SNP_3882_A_31952883	NC_021160.1	Ca_Kabuli_Chr01	31952883	CC	TT	TT	INTRON	101503118	uncharacterized LOC101503118
SNP_3883_A_31994687	NC_021160.1	Ca_Kabuli_Chr01	31994687	AA	GG	GG	INTERGENIC		
SNP_3884_A_31995364	NC_021160.1	Ca_Kabuli_Chr01	31995364	TT	GG	GG	INTERGENIC		
SNP_3885_A_31995371	NC_021160.1	Ca_Kabuli_Chr01	31995371	TT	GG	GG	INTERGENIC		
SNP_3886_A_31995388	NC_021160.1	Ca_Kabuli_Chr01	31995388	CC	TT	TT	INTERGENIC		
SNP_3887_A_31995397	NC_021160.1	Ca_Kabuli_Chr01	31995397	TT	AA	AA	INTERGENIC		
SNP_3888_A_31995400	NC_021160.1	Ca_Kabuli_Chr01	31995400	TT	CC	CC	INTERGENIC		
SNP_3889_A_31995426	NC_021160.1	Ca_Kabuli_Chr01	31995426	TT	CC	CC	INTERGENIC		
SNP_3891_A_31995540	NC_021160.1	Ca_Kabuli_Chr01	31995540	AA	TT	TT	INTERGENIC		
SNP_3892_A_31995565	NC_021160.1	Ca_Kabuli_Chr01	31995565	AA	GG	GG	INTERGENIC		
SNP_3893_A_31995597	NC_021160.1	Ca_Kabuli_Chr01	31995597	CC	TT	TT	INTERGENIC		
SNP_3894_A_31995619	NC_021160.1	Ca_Kabuli_Chr01	31995619	TT	CC	CC	INTERGENIC		
SNP_3895_A_31995700	NC_021160.1	Ca_Kabuli_Chr01	31995700	GG	AA	AA	INTERGENIC		
SNP_3896_A_31995757	NC_021160.1	Ca_Kabuli_Chr01	31995757	CC	TT	TT	INTERGENIC		
SNP_3899_A_32037059	NC_021160.1	Ca_Kabuli_Chr01	32037059	AA	GG	GG	URR	101504104	uncharacterized LOC101504104

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3900_A_32037065	NC_021160.1	Ca_Kabuli_Chr01	32037065	CC	TT	TT	URR	101504104	uncharacterized LOC101504104
SNP_3901_A_32037081	NC_021160.1	Ca_Kabuli_Chr01	32037081	AA	TT	TT	URR	101504104	uncharacterized LOC101504104
SNP_3902_A_32037112	NC_021160.1	Ca_Kabuli_Chr01	32037112	TT	CC	CC	URR	101504104	uncharacterized LOC101504104
SNP_3903_A_32037139	NC_021160.1	Ca_Kabuli_Chr01	32037139	CC	TT	TT	URR	101504104	uncharacterized LOC101504104
SNP_3904_A_32037156	NC_021160.1	Ca_Kabuli_Chr01	32037156	GG	AA	AA	URR	101504104	uncharacterized LOC101504104
SNP_3906_A_32037275	NC_021160.1	Ca_Kabuli_Chr01	32037275	CC	TT	TT	URR	101504104	uncharacterized LOC101504104
SNP_3909_A_32037390	NC_021160.1	Ca_Kabuli_Chr01	32037390	GG	TT	TT	URR	101504104	uncharacterized LOC101504104
SNP_3910_A_32037412	NC_021160.1	Ca_Kabuli_Chr01	32037412	GG	AA	AA	URR	101504104	uncharacterized LOC101504104
SNP_3911_A_32038775	NC_021160.1	Ca_Kabuli_Chr01	32038775	TT	CC	CC	INTERGENIC		
SNP_3912_A_32038856	NC_021160.1	Ca_Kabuli_Chr01	32038856	GG	TT	TT	INTERGENIC		
SNP_3914_A_32043856	NC_021160.1	Ca_Kabuli_Chr01	32043856	CC	AA	AA	INTERGENIC		
SNP_3915_A_32055948	NC_021160.1	Ca_Kabuli_Chr01	32055948	TT	CC	CC	INTERGENIC		
SNP_3916_A_32079534	NC_021160.1	Ca_Kabuli_Chr01	32079534	CC	TT	TT	INTERGENIC		
SNP_3917_A_32079596	NC_021160.1	Ca_Kabuli_Chr01	32079596	TT	AA	AA	INTERGENIC		
SNP_3918_A_32079599	NC_021160.1	Ca_Kabuli_Chr01	32079599	TT	CC	CC	INTERGENIC		
SNP_3919_A_32079617	NC_021160.1	Ca_Kabuli_Chr01	32079617	TT	AA	AA	INTERGENIC		
SNP_3920_A_32079661	NC_021160.1	Ca_Kabuli_Chr01	32079661	AA	GG	GG	INTERGENIC		
SNP_3921_A_32079675	NC_021160.1	Ca_Kabuli_Chr01	32079675	AA	CC	CC	INTERGENIC		
SNP_3922_A_32079717	NC_021160.1	Ca_Kabuli_Chr01	32079717	TT	CC	CC	INTERGENIC		
SNP_3923_A_32079786	NC_021160.1	Ca_Kabuli_Chr01	32079786	TT	CC	CC	INTERGENIC		
SNP_3924_A_32079800	NC_021160.1	Ca_Kabuli_Chr01	32079800	AA	GG	GG	INTERGENIC		
SNP_3925_A_32079816	NC_021160.1	Ca_Kabuli_Chr01	32079816	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3926_A_32079823	NC_021160.1	Ca_Kabuli_Chr01	32079823	TT	CC	CC	INTERGENIC		
SNP_3927_A_32079914	NC_021160.1	Ca_Kabuli_Chr01	32079914	TT	GG	GG	INTERGENIC		
SNP_3928_A_32079987	NC_021160.1	Ca_Kabuli_Chr01	32079987	TT	CC	CC	INTERGENIC		
SNP_3929_A_32080004	NC_021160.1	Ca_Kabuli_Chr01	32080004	AA	GG	GG	INTERGENIC		
SNP_3930_A_32080019	NC_021160.1	Ca_Kabuli_Chr01	32080019	TT	CC	CC	INTERGENIC		
SNP_3931_A_32080028	NC_021160.1	Ca_Kabuli_Chr01	32080028	TT	CC	CC	INTERGENIC		
SNP_3932_A_32080067	NC_021160.1	Ca_Kabuli_Chr01	32080067	AA	GG	GG	INTERGENIC		
SNP_3934_A_32080139	NC_021160.1	Ca_Kabuli_Chr01	32080139	AA	GG	GG	INTERGENIC		
SNP_3935_A_32080153	NC_021160.1	Ca_Kabuli_Chr01	32080153	TT	CC	CC	INTERGENIC		
SNP_3937_A_32080263	NC_021160.1	Ca_Kabuli_Chr01	32080263	TT	CC	CC	INTERGENIC		
SNP_3938_A_32080264	NC_021160.1	Ca_Kabuli_Chr01	32080264	AA	GG	GG	INTERGENIC		
SNP_3940_A_32080352	NC_021160.1	Ca_Kabuli_Chr01	32080352	TT	CC	CC	INTERGENIC		
SNP_3941_A_32080356	NC_021160.1	Ca_Kabuli_Chr01	32080356	AA	GG	GG	INTERGENIC		
SNP_3942_A_32080665	NC_021160.1	Ca_Kabuli_Chr01	32080665	TT	AA	AA	URR	101504415	Unknown function
SNP_3943_A_32080696	NC_021160.1	Ca_Kabuli_Chr01	32080696	AA	GG	GG	URR	101504415	Unknown function
SNP_3944_A_32082275	NC_021160.1	Ca_Kabuli_Chr01	32082275	CC	TT	TT	DRR	101504735	uncharacterized LOC101504735
SNP_3945_A_32083938	NC_021160.1	Ca_Kabuli_Chr01	32083938	CC	TT	TT	NON_SYNONYMOUS_CODING	101504735	uncharacterized LOC101504735
SNP_3946_A_32124624	NC_021160.1	Ca_Kabuli_Chr01	32124624	CC	TT	TT	INTERGENIC		
SNP_3947_A_32124810	NC_021160.1	Ca_Kabuli_Chr01	32124810	TT	GG	GG	INTERGENIC		
SNP_3948_A_32125358	NC_021160.1	Ca_Kabuli_Chr01	32125358	GG	AA	AA	INTERGENIC		
SNP_3949_A_32126767	NC_021160.1	Ca_Kabuli_Chr01	32126767	CC	AA	AA	INTERGENIC		
SNP_3950_A_32126860	NC_021160.1	Ca_Kabuli_Chr01	32126860	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3951_A_32126900	NC_021160.1	Ca_Kabuli_Chr01	32126900	CC	TT	TT	INTERGENIC			
SNP_3952_A_32128231	NC_021160.1	Ca_Kabuli_Chr01	32128231	GG	AA	AA	INTERGENIC			
SNP_3953_A_32139298	NC_021160.1	Ca_Kabuli_Chr01	32139298	AA	TT	TT	INTERGENIC			
SNP_3954_A_32139790	NC_021160.1	Ca_Kabuli_Chr01	32139790	GG	AA	AA	INTERGENIC			
SNP_3955_A_32141350	NC_021160.1	Ca_Kabuli_Chr01	32141350	TT	CC	CC	INTERGENIC			
SNP_3956_A_32141365	NC_021160.1	Ca_Kabuli_Chr01	32141365	TT	CC	CC	INTERGENIC			
SNP_3957_A_32141519	NC_021160.1	Ca_Kabuli_Chr01	32141519	CC	AA	AA	INTERGENIC			
SNP_3958_A_32141597	NC_021160.1	Ca_Kabuli_Chr01	32141597	GG	TT	TT	INTERGENIC			
SNP_3959_A_32141775	NC_021160.1	Ca_Kabuli_Chr01	32141775	AA	CC	CC	INTERGENIC			
SNP_3960_A_32145583	NC_021160.1	Ca_Kabuli_Chr01	32145583	CC	TT	TT	INTERGENIC			
SNP_3961_A_32145938	NC_021160.1	Ca_Kabuli_Chr01	32145938	GG	AA	AA	INTERGENIC			
SNP_3962_A_32146643	NC_021160.1	Ca_Kabuli_Chr01	32146643	CC	AA	AA	INTERGENIC			
SNP_3963_A_32147267	NC_021160.1	Ca_Kabuli_Chr01	32147267	TT	CC	CC	INTERGENIC			
SNP_3964_A_32148709	NC_021160.1	Ca_Kabuli_Chr01	32148709	TT	AA	AA	INTERGENIC			
SNP_3965_A_32150355	NC_021160.1	Ca_Kabuli_Chr01	32150355	GG	AA	AA	INTERGENIC			
SNP_3966_A_32150510	NC_021160.1	Ca_Kabuli_Chr01	32150510	AA	GG	GG	INTERGENIC			
SNP_3967_A_32150603	NC_021160.1	Ca_Kabuli_Chr01	32150603	TT	CC	CC	INTERGENIC			
SNP_3968_A_32150639	NC_021160.1	Ca_Kabuli_Chr01	32150639	CC	AA	AA	INTERGENIC			
SNP_3969_A_32150819	NC_021160.1	Ca_Kabuli_Chr01	32150819	GG	AA	AA	INTERGENIC			
SNP_3970_A_32150953	NC_021160.1	Ca_Kabuli_Chr01	32150953	GG	CC	CC	INTERGENIC			
SNP_3972_A_32151737	NC_021160.1	Ca_Kabuli_Chr01	32151737	TT	GG	GG	INTERGENIC			
SNP_3973_A_32152033	NC_021160.1	Ca_Kabuli_Chr01	32152033	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_3974_A_32152241	NC_021160.1	Ca_Kabuli_Chr01	32152241	CC	TT	TT	INTERGENIC			
SNP_3975_A_32152688	NC_021160.1	Ca_Kabuli_Chr01	32152688	TT	CC	CC	INTERGENIC			
SNP_3978_A_32154397	NC_021160.1	Ca_Kabuli_Chr01	32154397	TT	GG	GG	INTERGENIC			
SNP_3979_A_32154669	NC_021160.1	Ca_Kabuli_Chr01	32154669	CC	TT	TT	INTERGENIC			
SNP_3980_A_32154834	NC_021160.1	Ca_Kabuli_Chr01	32154834	AA	CC	CC	INTERGENIC			
SNP_3981_A_32154876	NC_021160.1	Ca_Kabuli_Chr01	32154876	AA	CC	CC	INTERGENIC			
SNP_3982_A_32155025	NC_021160.1	Ca_Kabuli_Chr01	32155025	CC	TT	TT	INTERGENIC			
SNP_3983_A_32155031	NC_021160.1	Ca_Kabuli_Chr01	32155031	TT	CC	CC	INTERGENIC			
SNP_3984_A_32155622	NC_021160.1	Ca_Kabuli_Chr01	32155622	AA	TT	TT	INTERGENIC			
SNP_3985_A_32156378	NC_021160.1	Ca_Kabuli_Chr01	32156378	GG	CC	CC	INTERGENIC			
SNP_3986_A_32157968	NC_021160.1	Ca_Kabuli_Chr01	32157968	AA	GG	GG	INTERGENIC			
SNP_3987_A_32158328	NC_021160.1	Ca_Kabuli_Chr01	32158328	AA	GG	GG	INTERGENIC			
SNP_3988_A_32159110	NC_021160.1	Ca_Kabuli_Chr01	32159110	GG	AA	AA	INTERGENIC			
SNP_3989_A_32159539	NC_021160.1	Ca_Kabuli_Chr01	32159539	TT	CC	CC	INTERGENIC			
SNP_3990_A_32160754	NC_021160.1	Ca_Kabuli_Chr01	32160754	TT	CC	CC	INTERGENIC			
SNP_3991_A_32170044	NC_021160.1	Ca_Kabuli_Chr01	32170044	GG	AA	AA	INTERGENIC			
SNP_3992_A_32174616	NC_021160.1	Ca_Kabuli_Chr01	32174616	TT	CC	CC	INTERGENIC			
SNP_3993_A_32174647	NC_021160.1	Ca_Kabuli_Chr01	32174647	GG	TT	TT	INTERGENIC			
SNP_3994_A_32174678	NC_021160.1	Ca_Kabuli_Chr01	32174678	GG	AA	AA	INTERGENIC			
SNP_3995_A_32174965	NC_021160.1	Ca_Kabuli_Chr01	32174965	CC	AA	AA	INTERGENIC			
SNP_3996_A_32174991	NC_021160.1	Ca_Kabuli_Chr01	32174991	AA	GG	GG	INTERGENIC			
SNP_3997_A_32175687	NC_021160.1	Ca_Kabuli_Chr01	32175687	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_3998_A_32179696	NC_021160.1	Ca_Kabuli_Chr01	32179696	AA	TT	TT	URR	101506137	Unknown function
SNP_3999_A_32179980	NC_021160.1	Ca_Kabuli_Chr01	32179980	CC	TT	TT	URR	101506137	Unknown function
SNP_4000_A_32179993	NC_021160.1	Ca_Kabuli_Chr01	32179993	TT	AA	AA	URR	101506137	Unknown function
SNP_4001_A_32183849	NC_021160.1	Ca_Kabuli_Chr01	32183849	TT	CC	CC	INTERGENIC		
SNP_4002_A_32183878	NC_021160.1	Ca_Kabuli_Chr01	32183878	GG	AA	AA	INTERGENIC		
SNP_4003_A_32186837	NC_021160.1	Ca_Kabuli_Chr01	32186837	TT	CC	CC	DRR	101506469	cytochrome P450 714A2-like
SNP_4004_A_32186878	NC_021160.1	Ca_Kabuli_Chr01	32186878	AA	GG	GG	DRR	101506469	cytochrome P450 714A2-like
SNP_4005_A_32189161	NC_021160.1	Ca_Kabuli_Chr01	32189161	TT	CC	CC	URR	101506469	cytochrome P450 714A2-like
SNP_4006_A_32190806	NC_021160.1	Ca_Kabuli_Chr01	32190806	GG	AA	AA	INTERGENIC		
SNP_4007_A_32194186	NC_021160.1	Ca_Kabuli_Chr01	32194186	GG	AA	AA	INTERGENIC		
SNP_4008_A_32194875	NC_021160.1	Ca_Kabuli_Chr01	32194875	AA	CC	CC	INTERGENIC		
SNP_4009_A_32195318	NC_021160.1	Ca_Kabuli_Chr01	32195318	CC	GG	GG	INTERGENIC		
SNP_4010_A_32196274	NC_021160.1	Ca_Kabuli_Chr01	32196274	CC	TT	TT	INTERGENIC		
SNP_4011_A_32200292	NC_021160.1	Ca_Kabuli_Chr01	32200292	TT	CC	CC	INTERGENIC		
SNP_4012_A_32200597	NC_021160.1	Ca_Kabuli_Chr01	32200597	AA	CC	CC	INTERGENIC		
SNP_4013_A_32203387	NC_021160.1	Ca_Kabuli_Chr01	32203387	AA	GG	GG	INTERGENIC		
SNP_4014_A_32204436	NC_021160.1	Ca_Kabuli_Chr01	32204436	GG	AA	AA	INTERGENIC		
SNP_4015_A_32222246	NC_021160.1	Ca_Kabuli_Chr01	32222246	AA	GG	GG	INTERGENIC		
SNP_4017_A_32254312	NC_021160.1	Ca_Kabuli_Chr01	32254312	AA	TT	TT	INTERGENIC		
SNP_4018_A_32261029	NC_021160.1	Ca_Kabuli_Chr01	32261029	TT	GG	GG	INTERGENIC		
SNP_4019_A_32261420	NC_021160.1	Ca_Kabuli_Chr01	32261420	TT	CC	CC	INTERGENIC		
SNP_4020_A_32261812	NC_021160.1	Ca_Kabuli_Chr01	32261812	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4021_A_32264928	NC_021160.1	Ca_Kabuli_Chr01	32264928	TT	GG	GG	DRR	101505060	cytochrome P450 714A1-like
SNP_4023_A_32267993	NC_021160.1	Ca_Kabuli_Chr01	32267993	AA	TT	TT	INTRON	101505060	cytochrome P450 714A1-like
SNP_4024_A_32268013	NC_021160.1	Ca_Kabuli_Chr01	32268013	TT	CC	CC	INTRON	101505060	cytochrome P450 714A1-like
SNP_4025_A_32268645	NC_021160.1	Ca_Kabuli_Chr01	32268645	AA	TT	TT	INTRON	101505060	cytochrome P450 714A1-like
SNP_4026_A_32282193	NC_021160.1	Ca_Kabuli_Chr01	32282193	GG	AA	AA	DRR	101506795	SKP1-like protein 19
SNP_4027_A_32282463	NC_021160.1	Ca_Kabuli_Chr01	32282463	GG	AA	AA	DRR	101506795	SKP1-like protein 19
SNP_4028_A_32282784	NC_021160.1	Ca_Kabuli_Chr01	32282784	AA	GG	GG	DRR	101506795	SKP1-like protein 19
SNP_4029_A_32286534	NC_021160.1	Ca_Kabuli_Chr01	32286534	GG	CC	CC	INTERGENIC		
SNP_4030_A_32286535	NC_021160.1	Ca_Kabuli_Chr01	32286535	GG	AA	AA	INTERGENIC		
SNP_4031_A_32286555	NC_021160.1	Ca_Kabuli_Chr01	32286555	TT	CC	CC	INTERGENIC		
SNP_4032_A_32287044	NC_021160.1	Ca_Kabuli_Chr01	32287044	TT	GG	GG	INTERGENIC		
SNP_4033_A_32300319	NC_021160.1	Ca_Kabuli_Chr01	32300319	CC	TT	TT	INTERGENIC		
SNP_4034_A_32300935	NC_021160.1	Ca_Kabuli_Chr01	32300935	TT	CC	CC	INTERGENIC		
SNP_4035_A_32301217	NC_021160.1	Ca_Kabuli_Chr01	32301217	CC	TT	TT	INTERGENIC		
SNP_4036_A_32301267	NC_021160.1	Ca_Kabuli_Chr01	32301267	TT	CC	CC	INTERGENIC		
SNP_4037_A_32301541	NC_021160.1	Ca_Kabuli_Chr01	32301541	AA	TT	TT	INTERGENIC		
SNP_4038_A_32312424	NC_021160.1	Ca_Kabuli_Chr01	32312424	TT	CC	CC	INTERGENIC		
SNP_4039_A_32355317	NC_021160.1	Ca_Kabuli_Chr01	32355317	AA	GG	GG	INTERGENIC		
SNP_4040_A_32367996	NC_021160.1	Ca_Kabuli_Chr01	32367996	AA	GG	GG	INTERGENIC		
SNP_4041_A_32386180	NC_021160.1	Ca_Kabuli_Chr01	32386180	CC	AA	AA	INTERGENIC		
SNP_4042_A_32412585	NC_021160.1	Ca_Kabuli_Chr01	32412585	TT	CC	CC	INTERGENIC		
SNP_4043_A_32453880	NC_021160.1	Ca_Kabuli_Chr01	32453880	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4045_A_32537880	NC_021160.1	Ca_Kabuli_Chr01	32537880	AA	CC	CC	INTERGENIC			
SNP_4046_A_32572914	NC_021160.1	Ca_Kabuli_Chr01	32572914	TT	CC	CC	INTERGENIC			
SNP_4047_A_32572922	NC_021160.1	Ca_Kabuli_Chr01	32572922	CC	TT	TT	INTERGENIC			
SNP_4049_A_32758491	NC_021160.1	Ca_Kabuli_Chr01	32758491	AA	GG	GG	INTERGENIC			
SNP_4050_A_32758587	NC_021160.1	Ca_Kabuli_Chr01	32758587	AA	TT	TT	INTERGENIC			
SNP_4051_A_32758692	NC_021160.1	Ca_Kabuli_Chr01	32758692	GG	AA	AA	INTERGENIC			
SNP_4052_A_32758715	NC_021160.1	Ca_Kabuli_Chr01	32758715	GG	CC	CC	INTERGENIC			
SNP_4053_A_32758718	NC_021160.1	Ca_Kabuli_Chr01	32758718	AA	GG	GG	INTERGENIC			
SNP_4054_A_32758734	NC_021160.1	Ca_Kabuli_Chr01	32758734	TT	AA	AA	INTERGENIC			
SNP_4055_A_32758770	NC_021160.1	Ca_Kabuli_Chr01	32758770	GG	AA	AA	INTERGENIC			
SNP_4056_A_32758773	NC_021160.1	Ca_Kabuli_Chr01	32758773	AA	GG	GG	INTERGENIC			
SNP_4057_A_32758781	NC_021160.1	Ca_Kabuli_Chr01	32758781	CC	TT	TT	INTERGENIC			
SNP_4058_A_32758861	NC_021160.1	Ca_Kabuli_Chr01	32758861	TT	AA	AA	INTERGENIC			
SNP_4059_A_32766394	NC_021160.1	Ca_Kabuli_Chr01	32766394	AA	GG	GG	INTERGENIC			
SNP_4060_A_32796080	NC_021160.1	Ca_Kabuli_Chr01	32796080	TT	GG	GG	INTERGENIC			
SNP_4061_A_32796086	NC_021160.1	Ca_Kabuli_Chr01	32796086	TT	CC	CC	INTERGENIC			
SNP_4062_A_32798758	NC_021160.1	Ca_Kabuli_Chr01	32798758	CC	TT	TT	INTERGENIC			
SNP_4063_A_32798760	NC_021160.1	Ca_Kabuli_Chr01	32798760	AA	CC	CC	INTERGENIC			
SNP_4064_A_32804258	NC_021160.1	Ca_Kabuli_Chr01	32804258	GG	AA	AA	INTERGENIC			
SNP_4065_A_32808441	NC_021160.1	Ca_Kabuli_Chr01	32808441	TT	AA	AA	INTERGENIC			
SNP_4066_A_32814184	NC_021160.1	Ca_Kabuli_Chr01	32814184	GG	AA	AA	INTERGENIC			
SNP_4067_A_32819072	NC_021160.1	Ca_Kabuli_Chr01	32819072	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4068_A_32823244	NC_021160.1	Ca_Kabuli_Chr01	32823244	GG	TT	TT	INTERGENIC		
SNP_4069_A_32844132	NC_021160.1	Ca_Kabuli_Chr01	32844132	CC	GG	GG	INTERGENIC		
SNP_4070_A_32849558	NC_021160.1	Ca_Kabuli_Chr01	32849558	TT	CC	CC	INTERGENIC		
SNP_4071_A_32852770	NC_021160.1	Ca_Kabuli_Chr01	32852770	CC	TT	TT	INTERGENIC		
SNP_4072_A_32852776	NC_021160.1	Ca_Kabuli_Chr01	32852776	AA	GG	GG	INTERGENIC		
SNP_4073_A_32855328	NC_021160.1	Ca_Kabuli_Chr01	32855328	GG	CC	CC	INTERGENIC		
SNP_4074_A_32867899	NC_021160.1	Ca_Kabuli_Chr01	32867899	AA	CC	CC	INTERGENIC		
SNP_4075_A_32868520	NC_021160.1	Ca_Kabuli_Chr01	32868520	AA	TT	TT	INTERGENIC		
SNP_4076_A_32868553	NC_021160.1	Ca_Kabuli_Chr01	32868553	CC	GG	GG	INTERGENIC		
SNP_4077_A_32885517	NC_021160.1	Ca_Kabuli_Chr01	32885517	AA	GG	GG	INTERGENIC		
SNP_4078_A_32889499	NC_021160.1	Ca_Kabuli_Chr01	32889499	AA	GG	GG	INTERGENIC		
SNP_4079_A_32906362	NC_021160.1	Ca_Kabuli_Chr01	32906362	AA	CC	CC	DRR	101508706	dof zinc finger protein DOF5.4-like
SNP_4081_A_32922715	NC_021160.1	Ca_Kabuli_Chr01	32922715	GG	TT	TT	INTERGENIC		
SNP_4082_A_32941061	NC_021160.1	Ca_Kabuli_Chr01	32941061	AA	GG	GG	INTERGENIC		
SNP_4083_A_32941984	NC_021160.1	Ca_Kabuli_Chr01	32941984	TT	CC	CC	INTERGENIC		
SNP_4084_A_32942009	NC_021160.1	Ca_Kabuli_Chr01	32942009	AA	GG	GG	INTERGENIC		
SNP_4085_A_32942011	NC_021160.1	Ca_Kabuli_Chr01	32942011	TT	AA	AA	INTERGENIC		
SNP_4086_A_32946560	NC_021160.1	Ca_Kabuli_Chr01	32946560	AA	GG	GG	INTERGENIC		
SNP_4087_A_32950833	NC_021160.1	Ca_Kabuli_Chr01	32950833	TT	CC	CC	INTERGENIC		
SNP_4088_A_32957652	NC_021160.1	Ca_Kabuli_Chr01	32957652	TT	CC	CC	INTERGENIC		
SNP_4089_A_32957728	NC_021160.1	Ca_Kabuli_Chr01	32957728	AA	GG	GG	INTERGENIC		
SNP_4090_A_32966684	NC_021160.1	Ca_Kabuli_Chr01	32966684	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4091_A_32971286	NC_021160.1	Ca_Kabuli_Chr01	32971286	AA	GG	GG	INTERGENIC		
SNP_4092_A_32974240	NC_021160.1	Ca_Kabuli_Chr01	32974240	CC	TT	TT	INTERGENIC		
SNP_4093_A_32984083	NC_021160.1	Ca_Kabuli_Chr01	32984083	GG	TT	TT	INTERGENIC		
SNP_4094_A_32984121	NC_021160.1	Ca_Kabuli_Chr01	32984121	AA	GG	GG	INTERGENIC		
SNP_4095_A_32984151	NC_021160.1	Ca_Kabuli_Chr01	32984151	TT	AA	AA	INTERGENIC		
SNP_4096_A_32984173	NC_021160.1	Ca_Kabuli_Chr01	32984173	TT	CC	CC	INTERGENIC		
SNP_4097_A_33019147	NC_021160.1	Ca_Kabuli_Chr01	33019147	AA	CC	CC	INTERGENIC		
SNP_4098_A_33019157	NC_021160.1	Ca_Kabuli_Chr01	33019157	AA	GG	GG	INTERGENIC		
SNP_4099_A_33019214	NC_021160.1	Ca_Kabuli_Chr01	33019214	CC	TT	TT	INTERGENIC		
SNP_4100_A_33019614	NC_021160.1	Ca_Kabuli_Chr01	33019614	CC	TT	TT	INTERGENIC		
SNP_4101_A_33019665	NC_021160.1	Ca_Kabuli_Chr01	33019665	AA	GG	GG	INTERGENIC		
SNP_4102_A_33045531	NC_021160.1	Ca_Kabuli_Chr01	33045531	GG	AA	AA	INTERGENIC		
SNP_4103_A_33047247	NC_021160.1	Ca_Kabuli_Chr01	33047247	GG	AA	AA	INTERGENIC		
SNP_4104_A_33075482	NC_021160.1	Ca_Kabuli_Chr01	33075482	GG	TT	TT	INTERGENIC		
SNP_4105_A_33086335	NC_021160.1	Ca_Kabuli_Chr01	33086335	GG	AA	AA	INTERGENIC		
SNP_4107_A_33109665	NC_021160.1	Ca_Kabuli_Chr01	33109665	GG	AA	AA	INTERGENIC		
SNP_4108_A_33112399	NC_021160.1	Ca_Kabuli_Chr01	33112399	CC	TT	TT	INTRON	101511379	uncharacterized LOC101511379
SNP_4109_A_33112701	NC_021160.1	Ca_Kabuli_Chr01	33112701	CC	TT	TT	INTRON	101511379	uncharacterized LOC101511379
SNP_4110_A_33119286	NC_021160.1	Ca_Kabuli_Chr01	33119286	GG	CC	CC	INTERGENIC		
SNP_4111_A_33120433	NC_021160.1	Ca_Kabuli_Chr01	33120433	GG	CC	CC	INTERGENIC		
SNP_4112_A_33129493	NC_021160.1	Ca_Kabuli_Chr01	33129493	GG	TT	TT	INTERGENIC		
SNP_4113_A_33129762	NC_021160.1	Ca_Kabuli_Chr01	33129762	TT	CC	CC	INTERGENIC		

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SNP_4114_A_33129995	NC_021160.1	Ca_Kabuli_Chr01	33129995	GG	AA	AA	INTERGENIC		
SNP_4115_A_33140839	NC_021160.1	Ca_Kabuli_Chr01	33140839	TT	GG	GG	INTERGENIC		
SNP_4116_A_33141209	NC_021160.1	Ca_Kabuli_Chr01	33141209	AA	GG	CC	INTERGENIC		
SNP_4117_A_33142146	NC_021160.1	Ca_Kabuli_Chr01	33142146	TT	CC	CC	INTERGENIC		
SNP_4119_A_33154299	NC_021160.1	Ca_Kabuli_Chr01	33154299	GG	AA	AA	INTERGENIC		
SNP_4120_A_33159046	NC_021160.1	Ca_Kabuli_Chr01	33159046	AA	GG	GG	INTERGENIC		
SNP_4121_A_33160509	NC_021160.1	Ca_Kabuli_Chr01	33160509	CC	AA	AA	INTERGENIC		
SNP_4122_A_33161893	NC_021160.1	Ca_Kabuli_Chr01	33161893	CC	TT	TT	INTERGENIC		
SNP_4123_A_33199610	NC_021160.1	Ca_Kabuli_Chr01	33199610	TT	CC	CC	INTRON	101511069	putative ATP-dependent helicase hrq1
SNP_4124_A_33207771	NC_021160.1	Ca_Kabuli_Chr01	33207771	GG	AA	AA	INTRON	101511069	putative ATP-dependent helicase hrq1
SNP_4125_A_33207820	NC_021160.1	Ca_Kabuli_Chr01	33207820	TT	GG	GG	INTRON	101511069	putative ATP-dependent helicase hrq1
SNP_4126_A_33237205	NC_021160.1	Ca_Kabuli_Chr01	33237205	CC	AA	AA	INTERGENIC		
SNP_4127_A_33244781	NC_021160.1	Ca_Kabuli_Chr01	33244781	TT	GG	GG	INTERGENIC		
SNP_4128_A_33244795	NC_021160.1	Ca_Kabuli_Chr01	33244795	GG	TT	TT	INTERGENIC		
SNP_4129_A_33248055	NC_021160.1	Ca_Kabuli_Chr01	33248055	AA	GG	GG	INTERGENIC		
SNP_4130_A_33275169	NC_021160.1	Ca_Kabuli_Chr01	33275169	TT	CC	CC	INTERGENIC		
SNP_4131_A_33291530	NC_021160.1	Ca_Kabuli_Chr01	33291530	CC	TT	TT	INTERGENIC		
SNP_4132_A_33293699	NC_021160.1	Ca_Kabuli_Chr01	33293699	TT	CC	CC	INTERGENIC		
SNP_4133_A_33307490	NC_021160.1	Ca_Kabuli_Chr01	33307490	AA	TT	TT	INTERGENIC		
SNP_4134_A_33307771	NC_021160.1	Ca_Kabuli_Chr01	33307771	AA	CC	CC	INTERGENIC		
SNP_4135_A_33307784	NC_021160.1	Ca_Kabuli_Chr01	33307784	GG	AA	AA	INTERGENIC		
SNP_4136_A_33307920	NC_021160.1	Ca_Kabuli_Chr01	33307920	AA	GG	GG	INTERGENIC		

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SNP_4137_A_33307984	NC_021160.1	Ca_Kabuli_Chr01	33307984	AA	GG	GG	INTERGENIC		
SNP_4139_A_33342503	NC_021160.1	Ca_Kabuli_Chr01	33342503	CC	AA	AA	INTERGENIC		
SNP_4140_A_33352113	NC_021160.1	Ca_Kabuli_Chr01	33352113	TT	GG	GG	INTERGENIC		
SNP_4141_A_33357648	NC_021160.1	Ca_Kabuli_Chr01	33357648	TT	GG	GG	INTERGENIC		
SNP_4142_A_33357708	NC_021160.1	Ca_Kabuli_Chr01	33357708	TT	GG	GG	INTERGENIC		
SNP_4143_A_33366853	NC_021160.1	Ca_Kabuli_Chr01	33366853	CC	TT	TT	DRR	101510419	truncated transcription factor CAULIFLOWER A-like
SNP_4144_A_33377349	NC_021160.1	Ca_Kabuli_Chr01	33377349	AA	CC	CC	INTRON	101510419	truncated transcription factor CAULIFLOWER A-like
SNP_4145_A_33402115	NC_021160.1	Ca_Kabuli_Chr01	33402115	TT	CC	CC	INTERGENIC		
SNP_4146_A_33407796	NC_021160.1	Ca_Kabuli_Chr01	33407796	AA	GG	GG	INTERGENIC		
SNP_4147_A_33419936	NC_021160.1	Ca_Kabuli_Chr01	33419936	CC	TT	TT	NON_SYNONYMOUS_CODING	101489137	Unknown function
SNP_4148_A_33421704	NC_021160.1	Ca_Kabuli_Chr01	33421704	TT	AA	AA	URR	101489137	Unknown function
SNP_4149_A_33442314	NC_021160.1	Ca_Kabuli_Chr01	33442314	GG	AA	AA	INTERGENIC		
SNP_4150_A_33459119	NC_021160.1	Ca_Kabuli_Chr01	33459119	AA	GG	GG	INTERGENIC		
SNP_4151_A_33459195	NC_021160.1	Ca_Kabuli_Chr01	33459195	AA	GG	GG	INTERGENIC		
SNP_4152_A_33459219	NC_021160.1	Ca_Kabuli_Chr01	33459219	CC	AA	AA	INTERGENIC		
SNP_4153_A_33459232	NC_021160.1	Ca_Kabuli_Chr01	33459232	TT	CC	CC	INTERGENIC		
SNP_4154_A_33488462	NC_021160.1	Ca_Kabuli_Chr01	33488462	AA	TT	TT	INTERGENIC		
SNP_4155_A_33488548	NC_021160.1	Ca_Kabuli_Chr01	33488548	CC	AA	AA	INTERGENIC		
SNP_4156_A_33488565	NC_021160.1	Ca_Kabuli_Chr01	33488565	AA	GG	GG	INTERGENIC		
SNP_4157_A_33488663	NC_021160.1	Ca_Kabuli_Chr01	33488663	TT	CC	CC	INTERGENIC		
SNP_4158_A_33488691	NC_021160.1	Ca_Kabuli_Chr01	33488691	AA	CC	CC	INTERGENIC		
SNP_4159_A_33488965	NC_021160.1	Ca_Kabuli_Chr01	33488965	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4160_A_33489005	NC_021160.1	Ca_Kabuli_Chr01	33489005	TT	GG	GG	INTERGENIC		
SNP_4161_A_33506013	NC_021160.1	Ca_Kabuli_Chr01	33506013	AA	GG	GG	NON_SYNONYMOUS_CODING	101490435	Unknown function
SNP_4162_A_33506059	NC_021160.1	Ca_Kabuli_Chr01	33506059	TT	GG	GG	NON_SYNONYMOUS_CODING	101490435	Unknown function
SNP_4163_A_33506072	NC_021160.1	Ca_Kabuli_Chr01	33506072	AA	CC	CC	NON_SYNONYMOUS_CODING	101490435	Unknown function
SNP_4164_A_33506486	NC_021160.1	Ca_Kabuli_Chr01	33506486	TT	CC	CC	SYNONYMOUS_CODING	101490435	Unknown function
SNP_4165_A_33531447	NC_021160.1	Ca_Kabuli_Chr01	33531447	GG	AA	AA	INTERGENIC		
SNP_4166_A_33549910	NC_021160.1	Ca_Kabuli_Chr01	33549910	CC	TT	TT	INTERGENIC		
SNP_4167_A_33553897	NC_021160.1	Ca_Kabuli_Chr01	33553897	TT	AA	AA	INTERGENIC		
SNP_4168_A_33553937	NC_021160.1	Ca_Kabuli_Chr01	33553937	AA	GG	GG	INTERGENIC		
SNP_4169_A_33562137	NC_021160.1	Ca_Kabuli_Chr01	33562137	GG	AA	AA	INTERGENIC		
SNP_4170_A_33565641	NC_021160.1	Ca_Kabuli_Chr01	33565641	AA	GG	GG	INTERGENIC		
SNP_4171_A_33565811	NC_021160.1	Ca_Kabuli_Chr01	33565811	TT	CC	CC	INTERGENIC		
SNP_4172_A_33569402	NC_021160.1	Ca_Kabuli_Chr01	33569402	TT	CC	CC	INTERGENIC		
SNP_4173_A_33569947	NC_021160.1	Ca_Kabuli_Chr01	33569947	CC	GG	GG	INTERGENIC		
SNP_4174_A_33571449	NC_021160.1	Ca_Kabuli_Chr01	33571449	TT	CC	CC	INTERGENIC		
SNP_4175_A_33596887	NC_021160.1	Ca_Kabuli_Chr01	33596887	CC	TT	TT	INTERGENIC		
SNP_4176_A_33630870	NC_021160.1	Ca_Kabuli_Chr01	33630870	AA	GG	GG	INTERGENIC		
SNP_4177_A_33630883	NC_021160.1	Ca_Kabuli_Chr01	33630883	TT	CC	CC	INTERGENIC		
SNP_4178_A_33633612	NC_021160.1	Ca_Kabuli_Chr01	33633612	CC	GG	GG	INTERGENIC		
SNP_4179_A_33639307	NC_021160.1	Ca_Kabuli_Chr01	33639307	TT	CC	CC	INTERGENIC		
SNP_4180_A_33639313	NC_021160.1	Ca_Kabuli_Chr01	33639313	TT	CC	CC	INTERGENIC		
SNP_4181_A_33639426	NC_021160.1	Ca_Kabuli_Chr01	33639426	AA	GG	GG	INTERGENIC		

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SNP_4182_A_33639686	NC_021160.1	Ca_Kabuli_Chr01	33639686	TT	AA	AA	INTERGENIC		
SNP_4184_A_33640416	NC_021160.1	Ca_Kabuli_Chr01	33640416	GG	AA	AA	INTERGENIC		
SNP_4185_A_33640674	NC_021160.1	Ca_Kabuli_Chr01	33640674	TT	AA	AA	INTERGENIC		
SNP_4186_A_33679524	NC_021160.1	Ca_Kabuli_Chr01	33679524	TT	GG	GG	INTERGENIC		
SNP_4187_A_33688936	NC_021160.1	Ca_Kabuli_Chr01	33688936	TT	CC	CC	INTERGENIC		
SNP_4188_A_33688947	NC_021160.1	Ca_Kabuli_Chr01	33688947	TT	AA	GG	INTERGENIC		
SNP_4189_A_33688956	NC_021160.1	Ca_Kabuli_Chr01	33688956	CC	AA	AA	INTERGENIC		
SNP_4190_A_33699652	NC_021160.1	Ca_Kabuli_Chr01	33699652	AA	TT	TT	URR	101512579	COBRA-like protein 4
SNP_4191_A_33700032	NC_021160.1	Ca_Kabuli_Chr01	33700032	GG	AA	AA	INTERGENIC		
SNP_4192_A_33700035	NC_021160.1	Ca_Kabuli_Chr01	33700035	TT	CC	CC	INTERGENIC		
SNP_4193_A_33700042	NC_021160.1	Ca_Kabuli_Chr01	33700042	AA	CC	CC	INTERGENIC		
SNP_4194_A_33700050	NC_021160.1	Ca_Kabuli_Chr01	33700050	CC	AA	AA	INTERGENIC		
SNP_4196_A_33747276	NC_021160.1	Ca_Kabuli_Chr01	33747276	TT	GG	GG	INTERGENIC		
SNP_4197_A_33749811	NC_021160.1	Ca_Kabuli_Chr01	33749811	GG	AA	AA	INTERGENIC		
SNP_4198_A_33754289	NC_021160.1	Ca_Kabuli_Chr01	33754289	GG	AA	AA	INTRON	101513424	protein COBRA
SNP_4200_A_33767885	NC_021160.1	Ca_Kabuli_Chr01	33767885	TT	GG	GG	INTERGENIC		
SNP_4202_A_33780296	NC_021160.1	Ca_Kabuli_Chr01	33780296	TT	CC	CC	INTERGENIC		
SNP_4203_A_33782240	NC_021160.1	Ca_Kabuli_Chr01	33782240	AA	GG	GG	INTERGENIC		
SNP_4204_A_33792558	NC_021160.1	Ca_Kabuli_Chr01	33792558	AA	GG	GG	INTERGENIC		
SNP_4205_A_33799460	NC_021160.1	Ca_Kabuli_Chr01	33799460	AA	GG	GG	DRR	101492368	F-box/kelch-repeat protein At3g06240-like
SNP_4206_A_33802965	NC_021160.1	Ca_Kabuli_Chr01	33802965	AA	TT	TT	URR	101492368	F-box/kelch-repeat protein At3g06240-like
SNP_4207_A_33803294	NC_021160.1	Ca_Kabuli_Chr01	33803294	GG	AA	AA	INTERGENIC		

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SNP_4208_A_33803416	NC_021160.1	Ca_Kabuli_Chr01	33803416	CC	TT	TT	INTERGENIC			
SNP_4209_A_33803812	NC_021160.1	Ca_Kabuli_Chr01	33803812	GG	CC	CC	INTERGENIC			
SNP_4210_A_33803813	NC_021160.1	Ca_Kabuli_Chr01	33803813	AA	CC	CC	INTERGENIC			
SNP_4212_A_33844839	NC_021160.1	Ca_Kabuli_Chr01	33844839	TT	CC	CC	INTERGENIC			
SNP_4213_A_33844879	NC_021160.1	Ca_Kabuli_Chr01	33844879	AA	GG	GG	INTERGENIC			
SNP_4214_A_33844940	NC_021160.1	Ca_Kabuli_Chr01	33844940	AA	CC	CC	INTERGENIC			
SNP_4215_A_33845092	NC_021160.1	Ca_Kabuli_Chr01	33845092	TT	AA	AA	INTERGENIC			
SNP_4216_A_33845586	NC_021160.1	Ca_Kabuli_Chr01	33845586	AA	GG	GG	INTERGENIC			
SNP_4217_A_33852245	NC_021160.1	Ca_Kabuli_Chr01	33852245	GG	AA	AA	INTERGENIC			
SNP_4218_A_33863185	NC_021160.1	Ca_Kabuli_Chr01	33863185	TT	GG	GG	INTERGENIC			
SNP_4219_A_33916007	NC_021160.1	Ca_Kabuli_Chr01	33916007	AA	GG	GG	INTERGENIC			
SNP_4220_A_33916761	NC_021160.1	Ca_Kabuli_Chr01	33916761	GG	CC	CC	INTERGENIC			
SNP_4221_A_33916794	NC_021160.1	Ca_Kabuli_Chr01	33916794	GG	AA	AA	INTERGENIC			
SNP_4222_A_34019850	NC_021160.1	Ca_Kabuli_Chr01	34019850	TT	AA	AA	INTERGENIC			
SNP_4223_A_34019852	NC_021160.1	Ca_Kabuli_Chr01	34019852	TT	AA	AA	INTERGENIC			
SNP_4224_A_34042898	NC_021160.1	Ca_Kabuli_Chr01	34042898	GG	TT	TT	INTERGENIC			
SNP_4225_A_34042922	NC_021160.1	Ca_Kabuli_Chr01	34042922	AA	GG	GG	INTERGENIC			
SNP_4226_A_34043332	NC_021160.1	Ca_Kabuli_Chr01	34043332	GG	AA	AA	INTERGENIC			
SNP_4227_A_34043402	NC_021160.1	Ca_Kabuli_Chr01	34043402	CC	TT	TT	INTERGENIC			
SNP_4229_A_34128194	NC_021160.1	Ca_Kabuli_Chr01	34128194	TT	AA	AA	INTERGENIC			
SNP_4230_A_34128206	NC_021160.1	Ca_Kabuli_Chr01	34128206	AA	GG	GG	INTERGENIC			
SNP_4231_A_34129173	NC_021160.1	Ca_Kabuli_Chr01	34129173	AA	GG	GG	INTERGENIC			

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SNP_4232_A_34129408	NC_021160.1	Ca_Kabuli_Chr01	34129408	TT	AA	AA	INTERGENIC		
SNP_4233_A_34129410	NC_021160.1	Ca_Kabuli_Chr01	34129410	GG	TT	TT	INTERGENIC		
SNP_4234_A_34130310	NC_021160.1	Ca_Kabuli_Chr01	34130310	AA	GG	GG	INTERGENIC		
SNP_4235_A_34131628	NC_021160.1	Ca_Kabuli_Chr01	34131628	TT	CC	CC	INTERGENIC		
SNP_4236_A_34134045	NC_021160.1	Ca_Kabuli_Chr01	34134045	AA	TT	TT	INTERGENIC		
SNP_4237_A_34136299	NC_021160.1	Ca_Kabuli_Chr01	34136299	GG	AA	AA	INTERGENIC		
SNP_4238_A_34136370	NC_021160.1	Ca_Kabuli_Chr01	34136370	CC	TT	TT	INTERGENIC		
SNP_4239_A_34136774	NC_021160.1	Ca_Kabuli_Chr01	34136774	CC	TT	TT	DRR	101498882	cytochrome P450 714A1-like
SNP_4240_A_34136789	NC_021160.1	Ca_Kabuli_Chr01	34136789	TT	CC	CC	DRR	101498882	cytochrome P450 714A1-like
SNP_4241_A_34136809	NC_021160.1	Ca_Kabuli_Chr01	34136809	TT	GG	GG	DRR	101498882	cytochrome P450 714A1-like
SNP_4242_A_34143081	NC_021160.1	Ca_Kabuli_Chr01	34143081	GG	TT	TT	INTERGENIC		
SNP_4243_A_34143695	NC_021160.1	Ca_Kabuli_Chr01	34143695	TT	CC	CC	INTERGENIC		
SNP_4244_A_34143708	NC_021160.1	Ca_Kabuli_Chr01	34143708	TT	CC	CC	INTERGENIC		
SNP_4245_A_34145315	NC_021160.1	Ca_Kabuli_Chr01	34145315	TT	CC	CC	INTERGENIC		
SNP_4246_A_34146008	NC_021160.1	Ca_Kabuli_Chr01	34146008	GG	AA	AA	INTERGENIC		
SNP_4248_A_34158702	NC_021160.1	Ca_Kabuli_Chr01	34158702	TT	CC	CC	INTERGENIC		
SNP_4249_A_34158707	NC_021160.1	Ca_Kabuli_Chr01	34158707	GG	AA	AA	INTERGENIC		
SNP_4250_A_34159136	NC_021160.1	Ca_Kabuli_Chr01	34159136	AA	TT	TT	DRR	101495597	E3 ubiquitin-protein ligase bri2-like
SNP_4251_A_34163574	NC_021160.1	Ca_Kabuli_Chr01	34163574	CC	TT	TT	URR	101495597	E3 ubiquitin-protein ligase bri2-like
SNP_4252_A_34163588	NC_021160.1	Ca_Kabuli_Chr01	34163588	CC	TT	TT	URR	101495597	E3 ubiquitin-protein ligase bri2-like
SNP_4253_A_34165475	NC_021160.1	Ca_Kabuli_Chr01	34165475	TT	CC	CC	INTERGENIC		
SNP_4254_A_34165493	NC_021160.1	Ca_Kabuli_Chr01	34165493	GG	AA	AA	INTERGENIC		

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SNP_4255_A_34167116	NC_021160.1	Ca_Kabuli_Chr01	34167116	AA	CC	CC	INTERGENIC		
SNP_4256_A_34177942	NC_021160.1	Ca_Kabuli_Chr01	34177942	TT	CC	CC	INTERGENIC		
SNP_4257_A_34178403	NC_021160.1	Ca_Kabuli_Chr01	34178403	AA	GG	GG	INTERGENIC		
SNP_4258_A_34194598	NC_021160.1	Ca_Kabuli_Chr01	34194598	AA	TT	TT	INTERGENIC		
SNP_4259_A_34195950	NC_021160.1	Ca_Kabuli_Chr01	34195950	CC	TT	TT	INTERGENIC		
SNP_4260_A_34196252	NC_021160.1	Ca_Kabuli_Chr01	34196252	GG	AA	AA	INTERGENIC		
SNP_4261_A_34196279	NC_021160.1	Ca_Kabuli_Chr01	34196279	CC	AA	AA	INTERGENIC		
SNP_4262_A_34196795	NC_021160.1	Ca_Kabuli_Chr01	34196795	GG	AA	AA	INTERGENIC		
SNP_4263_A_34197105	NC_021160.1	Ca_Kabuli_Chr01	34197105	CC	AA	AA	INTERGENIC		
SNP_4264_A_34201410	NC_021160.1	Ca_Kabuli_Chr01	34201410	AA	CC	CC	INTERGENIC		
SNP_4265_A_34205408	NC_021160.1	Ca_Kabuli_Chr01	34205408	CC	TT	TT	INTERGENIC		
SNP_4266_A_34214982	NC_021160.1	Ca_Kabuli_Chr01	34214982	AA	GG	GG	INTERGENIC		
SNP_4267_A_34215462	NC_021160.1	Ca_Kabuli_Chr01	34215462	TT	CC	CC	INTERGENIC		
SNP_4268_A_34221227	NC_021160.1	Ca_Kabuli_Chr01	34221227	GG	TT	TT	INTERGENIC		
SNP_4269_A_34221442	NC_021160.1	Ca_Kabuli_Chr01	34221442	AA	CC	CC	INTERGENIC		
SNP_4270_A_34228109	NC_021160.1	Ca_Kabuli_Chr01	34228109	TT	GG	GG	INTERGENIC		
SNP_4271_A_34230790	NC_021160.1	Ca_Kabuli_Chr01	34230790	TT	CC	CC	INTERGENIC		
SNP_4272_A_34260814	NC_021160.1	Ca_Kabuli_Chr01	34260814	GG	AA	AA	INTRON	101496366	callose synthase 2-like
SNP_4273_A_34280805	NC_021160.1	Ca_Kabuli_Chr01	34280805	GG	TT	TT	INTERGENIC		
SNP_4274_A_34283298	NC_021160.1	Ca_Kabuli_Chr01	34283298	TT	CC	CC	INTERGENIC		
SNP_4276_A_34293573	NC_021160.1	Ca_Kabuli_Chr01	34293573	TT	GG	GG	INTERGENIC		
SNP_4277_A_34294326	NC_021160.1	Ca_Kabuli_Chr01	34294326	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4278_A_34302483	NC_021160.1	Ca_Kabuli_Chr01	34302483	GG	AA	AA	INTRON	101497563	uncharacterized LOC101497563
SNP_4279_A_34306393	NC_021160.1	Ca_Kabuli_Chr01	34306393	AA	CC	CC	DRR	101497895	putative pentatricopeptide repeat-containing protein At1g03510
SNP_4280_A_34319023	NC_021160.1	Ca_Kabuli_Chr01	34319023	AA	GG	GG	URR	101498216	DAR GTPase 2, mitochondrial
SNP_4282_A_34332286	NC_021160.1	Ca_Kabuli_Chr01	34332286	AA	GG	GG	INTERGENIC		
SNP_4283_A_34332891	NC_021160.1	Ca_Kabuli_Chr01	34332891	GG	TT	TT	INTERGENIC		
SNP_4284_A_34339435	NC_021160.1	Ca_Kabuli_Chr01	34339435	TT	CC	CC	INTERGENIC		
SNP_4285_A_34357482	NC_021160.1	Ca_Kabuli_Chr01	34357482	CC	TT	TT	INTRON	101500473	keratin, type I cytoskeletal 10-like
SNP_4286_A_34360282	NC_021160.1	Ca_Kabuli_Chr01	34360282	CC	TT	TT	INTRON	101500473	keratin, type I cytoskeletal 10-like
SNP_4287_A_34364939	NC_021160.1	Ca_Kabuli_Chr01	34364939	AA	GG	GG	URR	101500473	keratin, type I cytoskeletal 10-like
SNP_4288_A_34370084	NC_021160.1	Ca_Kabuli_Chr01	34370084	AA	TT	TT	INTERGENIC		
SNP_4290_A_34372823	NC_021160.1	Ca_Kabuli_Chr01	34372823	CC	TT	TT	INTERGENIC		
SNP_4291_A_34372909	NC_021160.1	Ca_Kabuli_Chr01	34372909	TT	AA	AA	INTERGENIC		
SNP_4293_A_34392521	NC_021160.1	Ca_Kabuli_Chr01	34392521	AA	GG	GG	INTERGENIC		
SNP_4294_A_34405257	NC_021160.1	Ca_Kabuli_Chr01	34405257	GG	AA	AA	INTERGENIC		
SNP_4295_A_34407795	NC_021160.1	Ca_Kabuli_Chr01	34407795	AA	GG	GG	INTERGENIC		
SNP_4296_A_34415017	NC_021160.1	Ca_Kabuli_Chr01	34415017	TT	GG	GG	INTERGENIC		
SNP_4297_A_34415094	NC_021160.1	Ca_Kabuli_Chr01	34415094	AA	TT	TT	INTERGENIC		
SNP_4298_A_34415174	NC_021160.1	Ca_Kabuli_Chr01	34415174	TT	CC	CC	INTERGENIC		
SNP_4299_A_34419017	NC_021160.1	Ca_Kabuli_Chr01	34419017	CC	AA	AA	INTERGENIC		
SNP_4300_A_34419019	NC_021160.1	Ca_Kabuli_Chr01	34419019	AA	GG	GG	INTERGENIC		
SNP_4301_A_34426047	NC_021160.1	Ca_Kabuli_Chr01	34426047	CC	TT	TT	INTERGENIC		
SNP_4302_A_34432148	NC_021160.1	Ca_Kabuli_Chr01	34432148	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4303_A_34432498	NC_021160.1	Ca_Kabuli_Chr01	34432498	AA	GG	GG	DRR	101501110	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_4304_A_34433020	NC_021160.1	Ca_Kabuli_Chr01	34433020	TT	CC	CC	DRR	101501110	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_4305_A_34433033	NC_021160.1	Ca_Kabuli_Chr01	34433033	CC	TT	TT	DRR	101501110	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_4306_A_34433056	NC_021160.1	Ca_Kabuli_Chr01	34433056	TT	CC	CC	DRR	101501110	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_4307_A_34487148	NC_021160.1	Ca_Kabuli_Chr01	34487148	TT	CC	CC	INTERGENIC		
SNP_4308_A_34513699	NC_021160.1	Ca_Kabuli_Chr01	34513699	TT	CC	CC	INTRON	101501739	uncharacterized methyltransferase At2g41040, chloroplastic
SNP_4309_A_34583634	NC_021160.1	Ca_Kabuli_Chr01	34583634	GG	AA	AA	URR	101507454	Unknown function
SNP_4310_A_34628803	NC_021160.1	Ca_Kabuli_Chr01	34628803	CC	TT	TT	INTERGENIC		
SNP_4311_A_34642495	NC_021160.1	Ca_Kabuli_Chr01	34642495	CC	GG	GG	INTERGENIC		
SNP_4315_A_34675273	NC_021160.1	Ca_Kabuli_Chr01	34675273	GG	AA	AA	INTERGENIC		
SNP_4316_A_34682957	NC_021160.1	Ca_Kabuli_Chr01	34682957	AA	GG	GG	INTERGENIC		
SNP_4317_A_34683011	NC_021160.1	Ca_Kabuli_Chr01	34683011	TT	GG	GG	INTERGENIC		
SNP_4318_A_34687730	NC_021160.1	Ca_Kabuli_Chr01	34687730	TT	CC	CC	INTERGENIC		
SNP_4319_A_34691216	NC_021160.1	Ca_Kabuli_Chr01	34691216	AA	GG	GG	INTERGENIC		
SNP_4320_A_34691598	NC_021160.1	Ca_Kabuli_Chr01	34691598	TT	CC	CC	INTERGENIC		
SNP_4321_A_34694836	NC_021160.1	Ca_Kabuli_Chr01	34694836	TT	AA	AA	INTERGENIC		
SNP_4322_A_34701641	NC_021160.1	Ca_Kabuli_Chr01	34701641	GG	AA	AA	INTERGENIC		
SNP_4323_A_34702486	NC_021160.1	Ca_Kabuli_Chr01	34702486	GG	AA	AA	INTERGENIC		
SNP_4324_A_34762675	NC_021160.1	Ca_Kabuli_Chr01	34762675	GG	AA	AA	INTERGENIC		
SNP_4325_A_34774678	NC_021160.1	Ca_Kabuli_Chr01	34774678	AA	CC	CC	INTERGENIC		
SNP_4326_A_34800493	NC_021160.1	Ca_Kabuli_Chr01	34800493	CC	TT	TT	INTERGENIC		
SNP_4327_A_34800495	NC_021160.1	Ca_Kabuli_Chr01	34800495	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4328_A_34800566	NC_021160.1	Ca_Kabuli_Chr01	34800566	CC	TT	TT	INTERGENIC		
SNP_4330_A_34821969	NC_021160.1	Ca_Kabuli_Chr01	34821969	GG	AA	AA	INTERGENIC		
SNP_4331_A_34842853	NC_021160.1	Ca_Kabuli_Chr01	34842853	AA	GG	GG	INTERGENIC		
SNP_4332_A_34844886	NC_021160.1	Ca_Kabuli_Chr01	34844886	TT	CC	CC	INTERGENIC		
SNP_4333_A_34855579	NC_021160.1	Ca_Kabuli_Chr01	34855579	AA	CC	CC	INTERGENIC		
SNP_4334_A_34886314	NC_021160.1	Ca_Kabuli_Chr01	34886314	AA	GG	GG	INTERGENIC		
SNP_4335_A_34920470	NC_021160.1	Ca_Kabuli_Chr01	34920470	AA	GG	GG	INTERGENIC		
SNP_4336_A_34935136	NC_021160.1	Ca_Kabuli_Chr01	34935136	TT	GG	GG	INTERGENIC		
SNP_4337_A_34951368	NC_021160.1	Ca_Kabuli_Chr01	34951368	CC	TT	TT	URR	101505383	proteasome subunit alpha type-6
SNP_4338_A_34956974	NC_021160.1	Ca_Kabuli_Chr01	34956974	GG	AA	AA	INTERGENIC		
SNP_4339_A_34970094	NC_021160.1	Ca_Kabuli_Chr01	34970094	GG	TT	TT	URR	101510643	uncharacterized LOC101510643
SNP_4340_A_34970986	NC_021160.1	Ca_Kabuli_Chr01	34970986	GG	AA	AA	URR	101510643	uncharacterized LOC101510643
SNP_4341_A_34970993	NC_021160.1	Ca_Kabuli_Chr01	34970993	AA	TT	TT	URR	101510643	uncharacterized LOC101510643
SNP_4343_A_34971488	NC_021160.1	Ca_Kabuli_Chr01	34971488	GG	AA	AA	INTERGENIC		
SNP_4345_A_34989057	NC_021160.1	Ca_Kabuli_Chr01	34989057	TT	CC	CC	INTERGENIC		
SNP_4346_A_34989064	NC_021160.1	Ca_Kabuli_Chr01	34989064	AA	GG	GG	INTERGENIC		
SNP_4347_A_34989079	NC_021160.1	Ca_Kabuli_Chr01	34989079	AA	CC	CC	INTERGENIC		
SNP_4348_A_34989095	NC_021160.1	Ca_Kabuli_Chr01	34989095	TT	CC	CC	INTERGENIC		
SNP_4349_A_34989128	NC_021160.1	Ca_Kabuli_Chr01	34989128	GG	AA	AA	INTERGENIC		
SNP_4350_A_34989194	NC_021160.1	Ca_Kabuli_Chr01	34989194	AA	GG	GG	INTERGENIC		
SNP_4351_A_34989197	NC_021160.1	Ca_Kabuli_Chr01	34989197	GG	AA	AA	INTERGENIC		
SNP_4352_A_34989206	NC_021160.1	Ca_Kabuli_Chr01	34989206	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4353_A_34989329	NC_021160.1	Ca_Kabuli_Chr01	34989329	CC	GG	GG	INTERGENIC		
SNP_4354_A_34991149	NC_021160.1	Ca_Kabuli_Chr01	34991149	TT	CC	CC	INTERGENIC		
SNP_4355_A_34991785	NC_021160.1	Ca_Kabuli_Chr01	34991785	AA	GG	GG	INTERGENIC		
SNP_4356_A_34991825	NC_021160.1	Ca_Kabuli_Chr01	34991825	CC	TT	TT	INTERGENIC		
SNP_4357_A_34992129	NC_021160.1	Ca_Kabuli_Chr01	34992129	TT	AA	AA	INTERGENIC		
SNP_4358_A_34994977	NC_021160.1	Ca_Kabuli_Chr01	34994977	CC	TT	TT	INTERGENIC		
SNP_4359_A_34996722	NC_021160.1	Ca_Kabuli_Chr01	34996722	CC	AA	AA	INTERGENIC		
SNP_4360_A_34996723	NC_021160.1	Ca_Kabuli_Chr01	34996723	CC	TT	TT	INTERGENIC		
SNP_4361_A_34996725	NC_021160.1	Ca_Kabuli_Chr01	34996725	AA	GG	GG	INTERGENIC		
SNP_4362_A_34996732	NC_021160.1	Ca_Kabuli_Chr01	34996732	CC	TT	TT	INTERGENIC		
SNP_4363_A_34996761	NC_021160.1	Ca_Kabuli_Chr01	34996761	TT	CC	CC	INTERGENIC		
SNP_4364_A_34996814	NC_021160.1	Ca_Kabuli_Chr01	34996814	AA	TT	TT	INTERGENIC		
SNP_4365_A_34996912	NC_021160.1	Ca_Kabuli_Chr01	34996912	CC	TT	TT	INTERGENIC		
SNP_4366_A_34996925	NC_021160.1	Ca_Kabuli_Chr01	34996925	GG	TT	TT	INTERGENIC		
SNP_4367_A_34996946	NC_021160.1	Ca_Kabuli_Chr01	34996946	TT	AA	AA	INTERGENIC		
SNP_4368_A_35007373	NC_021160.1	Ca_Kabuli_Chr01	35007373	TT	AA	AA	INTERGENIC		
SNP_4369_A_35007713	NC_021160.1	Ca_Kabuli_Chr01	35007713	GG	TT	TT	INTERGENIC		
SNP_4370_A_35011571	NC_021160.1	Ca_Kabuli_Chr01	35011571	TT	AA	AA	INTERGENIC		
SNP_4371_A_35024174	NC_021160.1	Ca_Kabuli_Chr01	35024174	CC	TT	TT	INTERGENIC		
SNP_4372_A_35033868	NC_021160.1	Ca_Kabuli_Chr01	35033868	AA	TT	TT	INTRON	101506470	uncharacterized LOC101506470
SNP_4373_A_35062255	NC_021160.1	Ca_Kabuli_Chr01	35062255	TT	AA	AA	INTERGENIC		
SNP_4374_A_35071591	NC_021160.1	Ca_Kabuli_Chr01	35071591	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4375_A_35078734	NC_021160.1	Ca_Kabuli_Chr01	35078734	AA	CC	CC	INTERGENIC			
SNP_4376_A_35081150	NC_021160.1	Ca_Kabuli_Chr01	35081150	AA	GG	GG	INTERGENIC			
SNP_4377_A_35082413	NC_021160.1	Ca_Kabuli_Chr01	35082413	CC	TT	TT	INTERGENIC			
SNP_4379_A_35097234	NC_021160.1	Ca_Kabuli_Chr01	35097234	AA	GG	GG	INTERGENIC			
SNP_4380_A_35111629	NC_021160.1	Ca_Kabuli_Chr01	35111629	CC	TT	TT	DRR	101506796	homeobox-leucine zipper protein HOX11-like	
SNP_4381_A_35111633	NC_021160.1	Ca_Kabuli_Chr01	35111633	TT	CC	CC	DRR	101506796	homeobox-leucine zipper protein HOX11-like	
SNP_4382_A_35111639	NC_021160.1	Ca_Kabuli_Chr01	35111639	TT	CC	CC	DRR	101506796	homeobox-leucine zipper protein HOX11-like	
SNP_4383_A_35111644	NC_021160.1	Ca_Kabuli_Chr01	35111644	AA	GG	GG	DRR	101506796	homeobox-leucine zipper protein HOX11-like	
SNP_4384_A_35124764	NC_021160.1	Ca_Kabuli_Chr01	35124764	AA	GG	GG	INTERGENIC			
SNP_4385_A_35124773	NC_021160.1	Ca_Kabuli_Chr01	35124773	AA	GG	GG	INTERGENIC			
SNP_4386_A_35139998	NC_021160.1	Ca_Kabuli_Chr01	35139998	AA	TT	TT	INTERGENIC			
SNP_4387_A_35143451	NC_021160.1	Ca_Kabuli_Chr01	35143451	TT	GG	GG	INTERGENIC			
SNP_4388_A_35145687	NC_021160.1	Ca_Kabuli_Chr01	35145687	GG	AA	AA	INTERGENIC			
SNP_4389_A_35145877	NC_021160.1	Ca_Kabuli_Chr01	35145877	TT	AA	AA	INTERGENIC			
SNP_4390_A_35146891	NC_021160.1	Ca_Kabuli_Chr01	35146891	AA	TT	TT	INTERGENIC			
SNP_4391_A_35148190	NC_021160.1	Ca_Kabuli_Chr01	35148190	AA	GG	GG	INTERGENIC			
SNP_4392_A_35148246	NC_021160.1	Ca_Kabuli_Chr01	35148246	CC	AA	AA	INTERGENIC			
SNP_4393_A_35148475	NC_021160.1	Ca_Kabuli_Chr01	35148475	AA	GG	GG	INTERGENIC			
SNP_4394_A_35149534	NC_021160.1	Ca_Kabuli_Chr01	35149534	GG	AA	AA	INTERGENIC			
SNP_4395_A_35152895	NC_021160.1	Ca_Kabuli_Chr01	35152895	AA	TT	TT	INTERGENIC			
SNP_4396_A_35152911	NC_021160.1	Ca_Kabuli_Chr01	35152911	AA	GG	GG	INTERGENIC			
SNP_4397_A_35152941	NC_021160.1	Ca_Kabuli_Chr01	35152941	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4398_A_35153042	NC_021160.1	Ca_Kabuli_Chr01	35153042	GG	AA	AA	INTERGENIC			
SNP_4399_A_35153096	NC_021160.1	Ca_Kabuli_Chr01	35153096	TT	AA	AA	INTERGENIC			
SNP_4400_A_35153405	NC_021160.1	Ca_Kabuli_Chr01	35153405	CC	AA	AA	INTERGENIC			
SNP_4402_A_35153471	NC_021160.1	Ca_Kabuli_Chr01	35153471	CC	TT	TT	INTERGENIC			
SNP_4403_A_35154630	NC_021160.1	Ca_Kabuli_Chr01	35154630	GG	TT	TT	INTERGENIC			
SNP_4404_A_35154631	NC_021160.1	Ca_Kabuli_Chr01	35154631	TT	AA	AA	INTERGENIC			
SNP_4405_A_35158720	NC_021160.1	Ca_Kabuli_Chr01	35158720	AA	TT	TT	INTERGENIC			
SNP_4406_A_35165890	NC_021160.1	Ca_Kabuli_Chr01	35165890	CC	TT	TT	INTERGENIC			
SNP_4408_A_35167719	NC_021160.1	Ca_Kabuli_Chr01	35167719	CC	AA	AA	INTERGENIC			
SNP_4409_A_35167723	NC_021160.1	Ca_Kabuli_Chr01	35167723	GG	AA	AA	INTERGENIC			
SNP_4410_A_35167775	NC_021160.1	Ca_Kabuli_Chr01	35167775	GG	AA	AA	INTERGENIC			
SNP_4411_A_35168035	NC_021160.1	Ca_Kabuli_Chr01	35168035	CC	TT	TT	INTERGENIC			
SNP_4412_A_35177862	NC_021160.1	Ca_Kabuli_Chr01	35177862	GG	AA	AA	INTERGENIC			
SNP_4413_A_35178408	NC_021160.1	Ca_Kabuli_Chr01	35178408	AA	TT	TT	INTERGENIC			
SNP_4414_A_35178587	NC_021160.1	Ca_Kabuli_Chr01	35178587	AA	TT	TT	INTERGENIC			
SNP_4415_A_35179126	NC_021160.1	Ca_Kabuli_Chr01	35179126	CC	TT	TT	INTERGENIC			
SNP_4416_A_35181651	NC_021160.1	Ca_Kabuli_Chr01	35181651	AA	CC	CC	INTERGENIC			
SNP_4417_A_35184708	NC_021160.1	Ca_Kabuli_Chr01	35184708	TT	AA	AA	INTERGENIC			
SNP_4418_A_35185489	NC_021160.1	Ca_Kabuli_Chr01	35185489	TT	CC	CC	INTERGENIC			
SNP_4419_A_35185844	NC_021160.1	Ca_Kabuli_Chr01	35185844	AA	GG	GG	INTERGENIC			
SNP_4420_A_35185876	NC_021160.1	Ca_Kabuli_Chr01	35185876	AA	GG	GG	INTERGENIC			
SNP_4421_A_35215654	NC_021160.1	Ca_Kabuli_Chr01	35215654	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4422_A_35221466	NC_021160.1	Ca_Kabuli_Chr01	35221466	AA	TT	TT	INTERGENIC		
SNP_4423_A_35225438	NC_021160.1	Ca_Kabuli_Chr01	35225438	CC	TT	TT	INTERGENIC		
SNP_4424_A_35226709	NC_021160.1	Ca_Kabuli_Chr01	35226709	GG	TT	TT	INTERGENIC		
SNP_4425_A_35230196	NC_021160.1	Ca_Kabuli_Chr01	35230196	CC	AA	AA	INTERGENIC		
SNP_4426_A_35236755	NC_021160.1	Ca_Kabuli_Chr01	35236755	TT	CC	CC	INTERGENIC		
SNP_4427_A_35236807	NC_021160.1	Ca_Kabuli_Chr01	35236807	CC	TT	TT	INTERGENIC		
SNP_4428_A_35240162	NC_021160.1	Ca_Kabuli_Chr01	35240162	AA	GG	GG	INTERGENIC		
SNP_4429_A_35240163	NC_021160.1	Ca_Kabuli_Chr01	35240163	TT	CC	CC	INTERGENIC		
SNP_4430_A_35240424	NC_021160.1	Ca_Kabuli_Chr01	35240424	AA	TT	TT	DRR	101511709	cytochrome P450 714A2-like
SNP_4431_A_35240455	NC_021160.1	Ca_Kabuli_Chr01	35240455	GG	TT	TT	DRR	101511709	cytochrome P450 714A2-like
SNP_4432_A_35240562	NC_021160.1	Ca_Kabuli_Chr01	35240562	AA	CC	CC	DRR	101511709	cytochrome P450 714A2-like
SNP_4433_A_35243540	NC_021160.1	Ca_Kabuli_Chr01	35243540	AA	GG	GG	URR	101511709	cytochrome P450 714A2-like
SNP_4434_A_35243678	NC_021160.1	Ca_Kabuli_Chr01	35243678	AA	TT	TT	URR	101511709	cytochrome P450 714A2-like
SNP_4435_A_35258788	NC_021160.1	Ca_Kabuli_Chr01	35258788	AA	TT	TT	INTERGENIC		
SNP_4436_A_35260848	NC_021160.1	Ca_Kabuli_Chr01	35260848	AA	GG	GG	INTERGENIC		
SNP_4437_A_35260874	NC_021160.1	Ca_Kabuli_Chr01	35260874	CC	TT	TT	INTERGENIC		
SNP_4438_A_35261045	NC_021160.1	Ca_Kabuli_Chr01	35261045	GG	TT	TT	INTERGENIC		
SNP_4440_A_35261858	NC_021160.1	Ca_Kabuli_Chr01	35261858	AA	CC	CC	INTERGENIC		
SNP_4441_A_35262110	NC_021160.1	Ca_Kabuli_Chr01	35262110	TT	CC	CC	INTERGENIC		
SNP_4442_A_35264546	NC_021160.1	Ca_Kabuli_Chr01	35264546	GG	AA	AA	INTERGENIC		
SNP_4443_A_35265150	NC_021160.1	Ca_Kabuli_Chr01	35265150	CC	TT	TT	INTERGENIC		
SNP_4444_A_35265780	NC_021160.1	Ca_Kabuli_Chr01	35265780	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4445_A_35265815	NC_021160.1	Ca_Kabuli_Chr01	35265815	TT	CC	CC	INTERGENIC		
SNP_4446_A_35265887	NC_021160.1	Ca_Kabuli_Chr01	35265887	AA	TT	TT	INTERGENIC		
SNP_4447_A_35266005	NC_021160.1	Ca_Kabuli_Chr01	35266005	CC	GG	GG	INTERGENIC		
SNP_4448_A_35266006	NC_021160.1	Ca_Kabuli_Chr01	35266006	AA	GG	GG	INTERGENIC		
SNP_4449_A_35266060	NC_021160.1	Ca_Kabuli_Chr01	35266060	AA	TT	TT	INTERGENIC		
SNP_4450_A_35266213	NC_021160.1	Ca_Kabuli_Chr01	35266213	GG	CC	CC	INTERGENIC		
SNP_4452_A_35266253	NC_021160.1	Ca_Kabuli_Chr01	35266253	AA	GG	GG	INTERGENIC		
SNP_4453_A_35266267	NC_021160.1	Ca_Kabuli_Chr01	35266267	CC	AA	AA	INTERGENIC		
SNP_4454_A_35272700	NC_021160.1	Ca_Kabuli_Chr01	35272700	AA	GG	GG	INTERGENIC		
SNP_4455_A_35281147	NC_021160.1	Ca_Kabuli_Chr01	35281147	GG	CC	CC	INTRON	101512027	cytochrome P450 714A2-like
SNP_4456_A_35281461	NC_021160.1	Ca_Kabuli_Chr01	35281461	AA	GG	GG	INTRON	101512027	cytochrome P450 714A2-like
SNP_4457_A_35281532	NC_021160.1	Ca_Kabuli_Chr01	35281532	AA	CC	CC	INTRON	101512027	cytochrome P450 714A2-like
SNP_4459_A_35281605	NC_021160.1	Ca_Kabuli_Chr01	35281605	AA	GG	GG	INTRON	101512027	cytochrome P450 714A2-like
SNP_4460_A_35281863	NC_021160.1	Ca_Kabuli_Chr01	35281863	CC	AA	AA	INTRON	101512027	cytochrome P450 714A2-like
SNP_4461_A_35281869	NC_021160.1	Ca_Kabuli_Chr01	35281869	AA	GG	GG	INTRON	101512027	cytochrome P450 714A2-like
SNP_4463_A_35281954	NC_021160.1	Ca_Kabuli_Chr01	35281954	TT	AA	AA	INTRON	101512027	cytochrome P450 714A2-like
SNP_4464_A_35281965	NC_021160.1	Ca_Kabuli_Chr01	35281965	AA	CC	CC	INTRON	101512027	cytochrome P450 714A2-like
SNP_4465_A_35282203	NC_021160.1	Ca_Kabuli_Chr01	35282203	GG	AA	AA	INTRON	101512027	cytochrome P450 714A2-like
SNP_4466_A_35282547	NC_021160.1	Ca_Kabuli_Chr01	35282547	AA	GG	GG	SYNONYMOUS_CODING	101512027	cytochrome P450 714A2-like
SNP_4467_A_35283409	NC_021160.1	Ca_Kabuli_Chr01	35283409	AA	GG	GG	URR	101512027	cytochrome P450 714A2-like
SNP_4468_A_35283430	NC_021160.1	Ca_Kabuli_Chr01	35283430	CC	GG	GG	URR	101512027	cytochrome P450 714A2-like
SNP_4469_A_35283521	NC_021160.1	Ca_Kabuli_Chr01	35283521	GG	TT	TT	URR	101512027	cytochrome P450 714A2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4470_A_35283676	NC_021160.1	Ca_Kabuli_Chr01	35283676	AA	TT	TT	URR	101512027	cytochrome P450 714A2-like
SNP_4471_A_35283677	NC_021160.1	Ca_Kabuli_Chr01	35283677	AA	CC	CC	URR	101512027	cytochrome P450 714A2-like
SNP_4472_A_35283729	NC_021160.1	Ca_Kabuli_Chr01	35283729	AA	CC	CC	URR	101512027	cytochrome P450 714A2-like
SNP_4475_A_35284024	NC_021160.1	Ca_Kabuli_Chr01	35284024	CC	TT	TT	URR	101512027	cytochrome P450 714A2-like
SNP_4477_A_35284347	NC_021160.1	Ca_Kabuli_Chr01	35284347	AA	TT	TT	URR	101512027	cytochrome P450 714A2-like
SNP_4478_A_35284364	NC_021160.1	Ca_Kabuli_Chr01	35284364	TT	AA	AA	URR	101512027	cytochrome P450 714A2-like
SNP_4479_A_35284469	NC_021160.1	Ca_Kabuli_Chr01	35284469	GG	TT	TT	URR	101512027	cytochrome P450 714A2-like
SNP_4480_A_35284485	NC_021160.1	Ca_Kabuli_Chr01	35284485	GG	AA	AA	URR	101512027	cytochrome P450 714A2-like
SNP_4481_A_35284628	NC_021160.1	Ca_Kabuli_Chr01	35284628	AA	CC	CC	URR	101512027	cytochrome P450 714A2-like
SNP_4482_A_35284680	NC_021160.1	Ca_Kabuli_Chr01	35284680	AA	GG	GG	URR	101512027	cytochrome P450 714A2-like
SNP_4483_A_35284918	NC_021160.1	Ca_Kabuli_Chr01	35284918	GG	TT	TT	INTERGENIC		
SNP_4484_A_35284987	NC_021160.1	Ca_Kabuli_Chr01	35284987	TT	GG	GG	INTERGENIC		
SNP_4485_A_35285040	NC_021160.1	Ca_Kabuli_Chr01	35285040	AA	CC	CC	INTERGENIC		
SNP_4486_A_35285510	NC_021160.1	Ca_Kabuli_Chr01	35285510	AA	GG	GG	INTERGENIC		
SNP_4487_A_35287912	NC_021160.1	Ca_Kabuli_Chr01	35287912	CC	TT	TT	INTERGENIC		
SNP_4488_A_35289106	NC_021160.1	Ca_Kabuli_Chr01	35289106	GG	AA	AA	SYNONYMOUS_CODING	101512351	Unknown function
SNP_4489_A_35292640	NC_021160.1	Ca_Kabuli_Chr01	35292640	AA	GG	GG	INTRON	101512351	Unknown function
SNP_4490_A_35292647	NC_021160.1	Ca_Kabuli_Chr01	35292647	CC	AA	AA	INTRON	101512351	Unknown function
SNP_4491_A_35292652	NC_021160.1	Ca_Kabuli_Chr01	35292652	TT	GG	GG	INTRON	101512351	Unknown function
SNP_4492_A_35292881	NC_021160.1	Ca_Kabuli_Chr01	35292881	CC	TT	TT	INTRON	101512351	Unknown function
SNP_4493_A_35293027	NC_021160.1	Ca_Kabuli_Chr01	35293027	AA	GG	GG	INTRON	101512351	Unknown function
SNP_4494_A_35293034	NC_021160.1	Ca_Kabuli_Chr01	35293034	GG	CC	CC	INTRON	101512351	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4496_A_35305259	NC_021160.1	Ca_Kabuli_Chr01	35305259	CC	TT	TT	INTERGENIC			
SNP_4497_A_35310583	NC_021160.1	Ca_Kabuli_Chr01	35310583	TT	GG	GG	INTERGENIC			
SNP_4498_A_35310603	NC_021160.1	Ca_Kabuli_Chr01	35310603	AA	GG	GG	INTERGENIC			
SNP_4499_A_35310607	NC_021160.1	Ca_Kabuli_Chr01	35310607	TT	CC	CC	INTERGENIC			
SNP_4500_A_35310692	NC_021160.1	Ca_Kabuli_Chr01	35310692	TT	AA	AA	INTERGENIC			
SNP_4501_A_35310767	NC_021160.1	Ca_Kabuli_Chr01	35310767	AA	TT	TT	INTERGENIC			
SNP_4502_A_35310793	NC_021160.1	Ca_Kabuli_Chr01	35310793	TT	AA	AA	INTERGENIC			
SNP_4503_A_35310825	NC_021160.1	Ca_Kabuli_Chr01	35310825	GG	AA	AA	INTERGENIC			
SNP_4504_A_35310887	NC_021160.1	Ca_Kabuli_Chr01	35310887	AA	GG	GG	INTERGENIC			
SNP_4505_A_35310944	NC_021160.1	Ca_Kabuli_Chr01	35310944	TT	GG	GG	INTERGENIC			
SNP_4506_A_35310991	NC_021160.1	Ca_Kabuli_Chr01	35310991	AA	GG	GG	INTERGENIC			
SNP_4507_A_35311016	NC_021160.1	Ca_Kabuli_Chr01	35311016	CC	GG	GG	INTERGENIC			
SNP_4508_A_35311017	NC_021160.1	Ca_Kabuli_Chr01	35311017	TT	CC	CC	INTERGENIC			
SNP_4509_A_35311039	NC_021160.1	Ca_Kabuli_Chr01	35311039	CC	TT	TT	INTERGENIC			
SNP_4510_A_35311057	NC_021160.1	Ca_Kabuli_Chr01	35311057	CC	GG	GG	INTERGENIC			
SNP_4511_A_35311085	NC_021160.1	Ca_Kabuli_Chr01	35311085	TT	CC	CC	INTERGENIC			
SNP_4512_A_35311758	NC_021160.1	Ca_Kabuli_Chr01	35311758	TT	CC	CC	INTERGENIC			
SNP_4513_A_35311798	NC_021160.1	Ca_Kabuli_Chr01	35311798	AA	TT	TT	INTERGENIC			
SNP_4514_A_35316899	NC_021160.1	Ca_Kabuli_Chr01	35316899	TT	CC	CC	INTERGENIC			
SNP_4515_A_35316903	NC_021160.1	Ca_Kabuli_Chr01	35316903	TT	CC	CC	INTERGENIC			
SNP_4516_A_35316931	NC_021160.1	Ca_Kabuli_Chr01	35316931	AA	CC	CC	INTERGENIC			
SNP_4517_A_35317003	NC_021160.1	Ca_Kabuli_Chr01	35317003	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4518_A_35317034	NC_021160.1	Ca_Kabuli_Chr01	35317034	CC	TT	TT	INTERGENIC		
SNP_4519_A_35317036	NC_021160.1	Ca_Kabuli_Chr01	35317036	AA	GG	GG	INTERGENIC		
SNP_4520_A_35317039	NC_021160.1	Ca_Kabuli_Chr01	35317039	CC	TT	TT	INTERGENIC		
SNP_4521_A_35317049	NC_021160.1	Ca_Kabuli_Chr01	35317049	GG	AA	AA	INTERGENIC		
SNP_4522_A_35317066	NC_021160.1	Ca_Kabuli_Chr01	35317066	TT	CC	CC	INTERGENIC		
SNP_4523_A_35317067	NC_021160.1	Ca_Kabuli_Chr01	35317067	AA	TT	TT	INTERGENIC		
SNP_4524_A_35320773	NC_021160.1	Ca_Kabuli_Chr01	35320773	TT	CC	CC	INTRON	101512993	cytochrome P450 714A2-like
SNP_4526_A_35321178	NC_021160.1	Ca_Kabuli_Chr01	35321178	TT	GG	GG	INTRON	101512993	cytochrome P450 714A2-like
SNP_4527_A_35321418	NC_021160.1	Ca_Kabuli_Chr01	35321418	AA	TT	TT	INTRON	101512993	cytochrome P450 714A2-like
SNP_4528_A_35324638	NC_021160.1	Ca_Kabuli_Chr01	35324638	GG	AA	AA	INTERGENIC		
SNP_4529_A_35324639	NC_021160.1	Ca_Kabuli_Chr01	35324639	TT	AA	AA	INTERGENIC		
SNP_4530_A_35334551	NC_021160.1	Ca_Kabuli_Chr01	35334551	AA	TT	TT	INTERGENIC		
SNP_4531_A_35335592	NC_021160.1	Ca_Kabuli_Chr01	35335592	AA	TT	TT	INTERGENIC		
SNP_4532_A_35335889	NC_021160.1	Ca_Kabuli_Chr01	35335889	TT	CC	CC	INTERGENIC		
SNP_4533_A_35339318	NC_021160.1	Ca_Kabuli_Chr01	35339318	GG	AA	AA	INTERGENIC		
SNP_4534_A_35354341	NC_021160.1	Ca_Kabuli_Chr01	35354341	TT	CC	CC	INTERGENIC		
SNP_4535_A_35355040	NC_021160.1	Ca_Kabuli_Chr01	35355040	TT	CC	CC	INTERGENIC		
SNP_4536_A_35361074	NC_021160.1	Ca_Kabuli_Chr01	35361074	AA	GG	GG	INTRON	id21392	Unknown function
SNP_4537_A_35363371	NC_021160.1	Ca_Kabuli_Chr01	35363371	CC	TT	TT	SYNONYMOUS_CODING	id21392	Unknown function
SNP_4538_A_35372327	NC_021160.1	Ca_Kabuli_Chr01	35372327	AA	GG	GG	NON_SYNONYMOUS_CODING	id21392	Unknown function
SNP_4539_A_35374449	NC_021160.1	Ca_Kabuli_Chr01	35374449	AA	TT	TT	INTRON	id21392	Unknown function
SNP_4540_A_35377166	NC_021160.1	Ca_Kabuli_Chr01	35377166	GG	AA	AA	URR	101511487	uncharacterized LOC101511487

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4541_A_35403061	NC_021160.1	Ca_Kabuli_Chr01	35403061	TT	GG	GG	INTERGENIC			
SNP_4542_A_35403063	NC_021160.1	Ca_Kabuli_Chr01	35403063	GG	AA	AA	INTERGENIC			
SNP_4543_A_35403394	NC_021160.1	Ca_Kabuli_Chr01	35403394	AA	GG	GG	INTERGENIC			
SNP_4544_A_35404262	NC_021160.1	Ca_Kabuli_Chr01	35404262	TT	AA	AA	INTERGENIC			
SNP_4545_A_35404812	NC_021160.1	Ca_Kabuli_Chr01	35404812	AA	TT	TT	INTERGENIC			
SNP_4546_A_35405422	NC_021160.1	Ca_Kabuli_Chr01	35405422	AA	GG	GG	INTERGENIC			
SNP_4547_A_35405446	NC_021160.1	Ca_Kabuli_Chr01	35405446	AA	TT	TT	INTERGENIC			
SNP_4548_A_35405496	NC_021160.1	Ca_Kabuli_Chr01	35405496	GG	AA	AA	INTERGENIC			
SNP_4549_A_35425339	NC_021160.1	Ca_Kabuli_Chr01	35425339	AA	GG	GG	INTERGENIC			
SNP_4550_A_35432996	NC_021160.1	Ca_Kabuli_Chr01	35432996	TT	CC	CC	INTERGENIC			
SNP_4551_A_35433001	NC_021160.1	Ca_Kabuli_Chr01	35433001	TT	CC	CC	INTERGENIC			
SNP_4552_A_35435453	NC_021160.1	Ca_Kabuli_Chr01	35435453	CC	TT	TT	INTERGENIC			
SNP_4553_A_35438956	NC_021160.1	Ca_Kabuli_Chr01	35438956	AA	CC	CC	INTERGENIC			
SNP_4554_A_35475880	NC_021160.1	Ca_Kabuli_Chr01	35475880	TT	AA	AA	INTERGENIC			
SNP_4555_A_35480090	NC_021160.1	Ca_Kabuli_Chr01	35480090	AA	GG	GG	INTERGENIC			
SNP_4556_A_35482465	NC_021160.1	Ca_Kabuli_Chr01	35482465	AA	TT	TT	INTERGENIC			
SNP_4557_A_35482479	NC_021160.1	Ca_Kabuli_Chr01	35482479	TT	CC	CC	INTERGENIC			
SNP_4558_A_35491005	NC_021160.1	Ca_Kabuli_Chr01	35491005	TT	GG	GG	INTERGENIC			
SNP_4559_A_35493642	NC_021160.1	Ca_Kabuli_Chr01	35493642	CC	TT	TT	INTERGENIC			
SNP_4560_A_35510336	NC_021160.1	Ca_Kabuli_Chr01	35510336	AA	CC	CC	INTERGENIC			
SNP_4561_A_35525161	NC_021160.1	Ca_Kabuli_Chr01	35525161	TT	CC	CC	INTERGENIC			
SNP_4563_A_35560843	NC_021160.1	Ca_Kabuli_Chr01	35560843	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4564_A_35560889	NC_021160.1	Ca_Kabuli_Chr01	35560889	AA	GG	GG	INTERGENIC			
SNP_4565_A_35565066	NC_021160.1	Ca_Kabuli_Chr01	35565066	GG	AA	AA	INTERGENIC			
SNP_4566_A_35580402	NC_021160.1	Ca_Kabuli_Chr01	35580402	AA	TT	TT	INTERGENIC			
SNP_4567_A_35599172	NC_021160.1	Ca_Kabuli_Chr01	35599172	AA	CC	CC	INTERGENIC			
SNP_4568_A_35600276	NC_021160.1	Ca_Kabuli_Chr01	35600276	TT	CC	CC	INTERGENIC			
SNP_4569_A_35606185	NC_021160.1	Ca_Kabuli_Chr01	35606185	CC	AA	AA	INTERGENIC			
SNP_4570_A_35606594	NC_021160.1	Ca_Kabuli_Chr01	35606594	GG	AA	AA	INTERGENIC			
SNP_4571_A_35613888	NC_021160.1	Ca_Kabuli_Chr01	35613888	CC	TT	TT	INTERGENIC			
SNP_4572_A_35614152	NC_021160.1	Ca_Kabuli_Chr01	35614152	TT	CC	CC	INTERGENIC			
SNP_4573_A_35614164	NC_021160.1	Ca_Kabuli_Chr01	35614164	AA	GG	GG	INTERGENIC			
SNP_4574_A_35614173	NC_021160.1	Ca_Kabuli_Chr01	35614173	CC	TT	TT	INTERGENIC			
SNP_4575_A_35614265	NC_021160.1	Ca_Kabuli_Chr01	35614265	GG	AA	AA	INTERGENIC			
SNP_4576_A_35614312	NC_021160.1	Ca_Kabuli_Chr01	35614312	CC	TT	TT	INTERGENIC			
SNP_4577_A_35614370	NC_021160.1	Ca_Kabuli_Chr01	35614370	CC	AA	AA	INTERGENIC			
SNP_4578_A_35621987	NC_021160.1	Ca_Kabuli_Chr01	35621987	CC	AA	AA	INTERGENIC			
SNP_4579_A_35622123	NC_021160.1	Ca_Kabuli_Chr01	35622123	GG	AA	AA	INTERGENIC			
SNP_4580_A_35624353	NC_021160.1	Ca_Kabuli_Chr01	35624353	TT	GG	CC	INTERGENIC			
SNP_4581_A_35631968	NC_021160.1	Ca_Kabuli_Chr01	35631968	TT	CC	CC	INTERGENIC			
SNP_4582_A_35633174	NC_021160.1	Ca_Kabuli_Chr01	35633174	TT	CC	CC	INTERGENIC			
SNP_4583_A_35647110	NC_021160.1	Ca_Kabuli_Chr01	35647110	CC	TT	TT	INTERGENIC			
SNP_4584_A_35662135	NC_021160.1	Ca_Kabuli_Chr01	35662135	CC	AA	AA	INTERGENIC			
SNP_4585_A_35662165	NC_021160.1	Ca_Kabuli_Chr01	35662165	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4586_A_35679254	NC_021160.1	Ca_Kabuli_Chr01	35679254	TT	AA	AA	INTERGENIC		
SNP_4588_A_35681072	NC_021160.1	Ca_Kabuli_Chr01	35681072	GG	TT	TT	INTERGENIC		
SNP_4589_A_35681443	NC_021160.1	Ca_Kabuli_Chr01	35681443	GG	AA	AA	INTERGENIC		
SNP_4590_A_35682644	NC_021160.1	Ca_Kabuli_Chr01	35682644	GG	AA	AA	INTERGENIC		
SNP_4591_A_35684787	NC_021160.1	Ca_Kabuli_Chr01	35684787	AA	TT	TT	INTERGENIC		
SNP_4592_A_35684789	NC_021160.1	Ca_Kabuli_Chr01	35684789	AA	GG	GG	INTERGENIC		
SNP_4593_A_35684795	NC_021160.1	Ca_Kabuli_Chr01	35684795	AA	TT	TT	INTERGENIC		
SNP_4594_A_35699275	NC_021160.1	Ca_Kabuli_Chr01	35699275	TT	CC	CC	INTERGENIC		
SNP_4595_A_35710849	NC_021160.1	Ca_Kabuli_Chr01	35710849	CC	TT	TT	INTRON	101514628	mediator of RNA polymerase II transcription subunit 10b-like
SNP_4596_A_35712548	NC_021160.1	Ca_Kabuli_Chr01	35712548	GG	AA	AA	URR	101514628	mediator of RNA polymerase II transcription subunit 10b-like
SNP_4597_A_35712561	NC_021160.1	Ca_Kabuli_Chr01	35712561	GG	TT	TT	URR	101514628	mediator of RNA polymerase II transcription subunit 10b-like
SNP_4598_A_35712566	NC_021160.1	Ca_Kabuli_Chr01	35712566	AA	GG	GG	URR	101514628	mediator of RNA polymerase II transcription subunit 10b-like
SNP_4599_A_35715118	NC_021160.1	Ca_Kabuli_Chr01	35715118	TT	CC	CC	INTERGENIC		
SNP_4600_A_35715120	NC_021160.1	Ca_Kabuli_Chr01	35715120	AA	GG	GG	INTERGENIC		
SNP_4601_A_35715139	NC_021160.1	Ca_Kabuli_Chr01	35715139	TT	CC	CC	INTERGENIC		
SNP_4602_A_35724941	NC_021160.1	Ca_Kabuli_Chr01	35724941	TT	CC	CC	INTERGENIC		
SNP_4603_A_35725361	NC_021160.1	Ca_Kabuli_Chr01	35725361	CC	AA	AA	INTERGENIC		
SNP_4604_A_35727409	NC_021160.1	Ca_Kabuli_Chr01	35727409	CC	TT	TT	INTERGENIC		
SNP_4605_A_35744228	NC_021160.1	Ca_Kabuli_Chr01	35744228	TT	GG	GG	URR	101514959	zinc finger HIT domain-containing protein 1 homolog
SNP_4606_A_35751600	NC_021160.1	Ca_Kabuli_Chr01	35751600	TT	AA	AA	INTERGENIC		
SNP_4607_A_35767281	NC_021160.1	Ca_Kabuli_Chr01	35767281	AA	GG	GG	INTERGENIC		
SNP_4608_A_35769448	NC_021160.1	Ca_Kabuli_Chr01	35769448	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4609_A_35788472	NC_021160.1	Ca_Kabuli_Chr01	35788472	TT	GG	GG	INTERGENIC		
SNP_4610_A_35788485	NC_021160.1	Ca_Kabuli_Chr01	35788485	CC	TT	TT	INTERGENIC		
SNP_4611_A_35791597	NC_021160.1	Ca_Kabuli_Chr01	35791597	GG	CC	CC	URR	101488681	Unknown function
SNP_4612_A_35813415	NC_021160.1	Ca_Kabuli_Chr01	35813415	TT	CC	CC	INTERGENIC		
SNP_4613_A_35828111	NC_021160.1	Ca_Kabuli_Chr01	35828111	TT	CC	CC	INTERGENIC		
SNP_4614_A_35832179	NC_021160.1	Ca_Kabuli_Chr01	35832179	AA	GG	GG	INTERGENIC		
SNP_4615_A_35842140	NC_021160.1	Ca_Kabuli_Chr01	35842140	AA	TT	TT	INTERGENIC		
SNP_4616_A_35842997	NC_021160.1	Ca_Kabuli_Chr01	35842997	CC	TT	TT	INTERGENIC		
SNP_4617_A_35856259	NC_021160.1	Ca_Kabuli_Chr01	35856259	GG	AA	AA	INTERGENIC		
SNP_4618_A_35856328	NC_021160.1	Ca_Kabuli_Chr01	35856328	TT	CC	CC	INTERGENIC		
SNP_4619_A_35856355	NC_021160.1	Ca_Kabuli_Chr01	35856355	GG	AA	AA	INTERGENIC		
SNP_4620_A_35856373	NC_021160.1	Ca_Kabuli_Chr01	35856373	TT	AA	AA	INTERGENIC		
SNP_4621_A_35856424	NC_021160.1	Ca_Kabuli_Chr01	35856424	GG	CC	CC	INTERGENIC		
SNP_4622_A_35856427	NC_021160.1	Ca_Kabuli_Chr01	35856427	GG	AA	AA	INTERGENIC		
SNP_4623_A_35856635	NC_021160.1	Ca_Kabuli_Chr01	35856635	GG	CC	CC	INTERGENIC		
SNP_4624_A_35856779	NC_021160.1	Ca_Kabuli_Chr01	35856779	CC	TT	TT	INTERGENIC		
SNP_4625_A_35865971	NC_021160.1	Ca_Kabuli_Chr01	35865971	TT	CC	CC	INTERGENIC		
SNP_4626_A_35874522	NC_021160.1	Ca_Kabuli_Chr01	35874522	TT	CC	CC	INTERGENIC		
SNP_4629_A_35903016	NC_021160.1	Ca_Kabuli_Chr01	35903016	TT	CC	CC	INTERGENIC		
SNP_4630_A_35907431	NC_021160.1	Ca_Kabuli_Chr01	35907431	AA	GG	GG	INTERGENIC		
SNP_4631_A_35908939	NC_021160.1	Ca_Kabuli_Chr01	35908939	TT	CC	CC	INTERGENIC		
SNP_4632_A_35910525	NC_021160.1	Ca_Kabuli_Chr01	35910525	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4633_A_35924222	NC_021160.1	Ca_Kabuli_Chr01	35924222	AA	CC	CC	INTERGENIC			
SNP_4634_A_35946059	NC_021160.1	Ca_Kabuli_Chr01	35946059	AA	GG	GG	INTERGENIC			
SNP_4635_A_35946076	NC_021160.1	Ca_Kabuli_Chr01	35946076	AA	TT	TT	INTERGENIC			
SNP_4636_A_35946082	NC_021160.1	Ca_Kabuli_Chr01	35946082	CC	GG	GG	INTERGENIC			
SNP_4637_A_35946766	NC_021160.1	Ca_Kabuli_Chr01	35946766	GG	AA	AA	INTERGENIC			
SNP_4638_A_35946836	NC_021160.1	Ca_Kabuli_Chr01	35946836	TT	CC	CC	INTERGENIC			
SNP_4639_A_35946837	NC_021160.1	Ca_Kabuli_Chr01	35946837	GG	AA	AA	INTERGENIC			
SNP_4640_A_35946876	NC_021160.1	Ca_Kabuli_Chr01	35946876	CC	GG	GG	INTERGENIC			
SNP_4641_A_35946951	NC_021160.1	Ca_Kabuli_Chr01	35946951	AA	GG	GG	INTERGENIC			
SNP_4642_A_35946984	NC_021160.1	Ca_Kabuli_Chr01	35946984	AA	GG	GG	INTERGENIC			
SNP_4643_A_35947016	NC_021160.1	Ca_Kabuli_Chr01	35947016	AA	GG	GG	INTERGENIC			
SNP_4645_A_35947059	NC_021160.1	Ca_Kabuli_Chr01	35947059	TT	GG	GG	INTERGENIC			
SNP_4646_A_35947087	NC_021160.1	Ca_Kabuli_Chr01	35947087	AA	GG	GG	INTERGENIC			
SNP_4647_A_35947330	NC_021160.1	Ca_Kabuli_Chr01	35947330	GG	AA	AA	INTERGENIC			
SNP_4648_A_35947341	NC_021160.1	Ca_Kabuli_Chr01	35947341	AA	TT	TT	INTERGENIC			
SNP_4650_A_35977337	NC_021160.1	Ca_Kabuli_Chr01	35977337	AA	GG	GG	INTERGENIC			
SNP_4651_A_35977371	NC_021160.1	Ca_Kabuli_Chr01	35977371	CC	TT	TT	INTERGENIC			
SNP_4653_A_35978414	NC_021160.1	Ca_Kabuli_Chr01	35978414	TT	CC	CC	INTERGENIC			
SNP_4654_A_36012893	NC_021160.1	Ca_Kabuli_Chr01	36012893	GG	AA	AA	INTERGENIC			
SNP_4655_A_36012896	NC_021160.1	Ca_Kabuli_Chr01	36012896	TT	AA	AA	INTERGENIC			
SNP_4656_A_36012953	NC_021160.1	Ca_Kabuli_Chr01	36012953	AA	CC	CC	INTERGENIC			
SNP_4657_A_36012956	NC_021160.1	Ca_Kabuli_Chr01	36012956	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4658_A_36012985	NC_021160.1	Ca_Kabuli_Chr01	36012985	AA	GG	GG	INTERGENIC			
SNP_4659_A_36012995	NC_021160.1	Ca_Kabuli_Chr01	36012995	AA	GG	GG	INTERGENIC			
SNP_4660_A_36012998	NC_021160.1	Ca_Kabuli_Chr01	36012998	CC	TT	TT	INTERGENIC			
SNP_4661_A_36013001	NC_021160.1	Ca_Kabuli_Chr01	36013001	AA	CC	CC	INTERGENIC			
SNP_4662_A_36013071	NC_021160.1	Ca_Kabuli_Chr01	36013071	GG	TT	TT	INTERGENIC			
SNP_4663_A_36013119	NC_021160.1	Ca_Kabuli_Chr01	36013119	TT	CC	CC	INTERGENIC			
SNP_4664_A_36013344	NC_021160.1	Ca_Kabuli_Chr01	36013344	CC	TT	TT	INTERGENIC			
SNP_4665_A_36013359	NC_021160.1	Ca_Kabuli_Chr01	36013359	TT	AA	AA	INTERGENIC			
SNP_4666_A_36013365	NC_021160.1	Ca_Kabuli_Chr01	36013365	AA	CC	CC	INTERGENIC			
SNP_4667_A_36013368	NC_021160.1	Ca_Kabuli_Chr01	36013368	TT	CC	CC	INTERGENIC			
SNP_4668_A_36041340	NC_021160.1	Ca_Kabuli_Chr01	36041340	TT	CC	CC	INTERGENIC			
SNP_4671_A_36068882	NC_021160.1	Ca_Kabuli_Chr01	36068882	CC	TT	TT	INTERGENIC			
SNP_4672_A_36081441	NC_021160.1	Ca_Kabuli_Chr01	36081441	AA	GG	GG	INTERGENIC			
SNP_4673_A_36081457	NC_021160.1	Ca_Kabuli_Chr01	36081457	AA	GG	GG	INTERGENIC			
SNP_4674_A_36081496	NC_021160.1	Ca_Kabuli_Chr01	36081496	AA	GG	GG	INTERGENIC			
SNP_4675_A_36081559	NC_021160.1	Ca_Kabuli_Chr01	36081559	AA	TT	TT	INTERGENIC			
SNP_4676_A_36081589	NC_021160.1	Ca_Kabuli_Chr01	36081589	AA	GG	GG	INTERGENIC			
SNP_4677_A_36081590	NC_021160.1	Ca_Kabuli_Chr01	36081590	CC	TT	TT	INTERGENIC			
SNP_4678_A_36081851	NC_021160.1	Ca_Kabuli_Chr01	36081851	TT	CC	CC	INTERGENIC			
SNP_4679_A_36081988	NC_021160.1	Ca_Kabuli_Chr01	36081988	AA	CC	CC	INTERGENIC			
SNP_4680_A_36082048	NC_021160.1	Ca_Kabuli_Chr01	36082048	TT	GG	GG	INTERGENIC			
SNP_4681_A_36082060	NC_021160.1	Ca_Kabuli_Chr01	36082060	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4682_A_36104755	NC_021160.1	Ca_Kabuli_Chr01	36104755	AA	CC	CC	INTERGENIC		
SNP_4683_A_36117902	NC_021160.1	Ca_Kabuli_Chr01	36117902	GG	AA	AA	DRR	101494844	uncharacterized LOC101494844
SNP_4685_A_36171498	NC_021160.1	Ca_Kabuli_Chr01	36171498	TT	CC	CC	INTERGENIC		
SNP_4686_A_36172019	NC_021160.1	Ca_Kabuli_Chr01	36172019	GG	TT	TT	INTERGENIC		
SNP_4687_A_36225691	NC_021160.1	Ca_Kabuli_Chr01	36225691	AA	GG	GG	INTERGENIC		
SNP_4688_A_36249351	NC_021160.1	Ca_Kabuli_Chr01	36249351	AA	CC	CC	INTERGENIC		
SNP_4689_A_36249358	NC_021160.1	Ca_Kabuli_Chr01	36249358	CC	AA	AA	INTERGENIC		
SNP_4690_A_36268874	NC_021160.1	Ca_Kabuli_Chr01	36268874	TT	CC	CC	INTERGENIC		
SNP_4691_A_36282959	NC_021160.1	Ca_Kabuli_Chr01	36282959	GG	AA	AA	INTERGENIC		
SNP_4692_A_36283052	NC_021160.1	Ca_Kabuli_Chr01	36283052	CC	GG	GG	INTERGENIC		
SNP_4693_A_36283366	NC_021160.1	Ca_Kabuli_Chr01	36283366	TT	GG	GG	INTERGENIC		
SNP_4694_A_36292448	NC_021160.1	Ca_Kabuli_Chr01	36292448	CC	TT	TT	INTERGENIC		
SNP_4695_A_36297212	NC_021160.1	Ca_Kabuli_Chr01	36297212	CC	TT	TT	INTERGENIC		
SNP_4696_A_36297225	NC_021160.1	Ca_Kabuli_Chr01	36297225	CC	TT	TT	INTERGENIC		
SNP_4697_A_36297248	NC_021160.1	Ca_Kabuli_Chr01	36297248	GG	AA	AA	INTERGENIC		
SNP_4698_A_36297251	NC_021160.1	Ca_Kabuli_Chr01	36297251	AA	TT	TT	INTERGENIC		
SNP_4699_A_36297274	NC_021160.1	Ca_Kabuli_Chr01	36297274	TT	GG	GG	INTERGENIC		
SNP_4700_A_36300734	NC_021160.1	Ca_Kabuli_Chr01	36300734	CC	AA	AA	INTERGENIC		
SNP_4701_A_36300739	NC_021160.1	Ca_Kabuli_Chr01	36300739	CC	GG	GG	INTERGENIC		
SNP_4702_A_36304182	NC_021160.1	Ca_Kabuli_Chr01	36304182	CC	AA	AA	INTERGENIC		
SNP_4703_A_36319209	NC_021160.1	Ca_Kabuli_Chr01	36319209	CC	TT	TT	INTERGENIC		
SNP_4704_A_36319226	NC_021160.1	Ca_Kabuli_Chr01	36319226	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4705_A_36342208	NC_021160.1	Ca_Kabuli_Chr01	36342208	GG	TT	TT	INTERGENIC		
SNP_4706_A_36346299	NC_021160.1	Ca_Kabuli_Chr01	36346299	GG	AA	AA	INTERGENIC		
SNP_4707_A_36410091	NC_021160.1	Ca_Kabuli_Chr01	36410091	TT	GG	GG	URR	101490332	NEDD8 ultimate buster 1
SNP_4708_A_36410221	NC_021160.1	Ca_Kabuli_Chr01	36410221	AA	GG	GG	URR	101490332	NEDD8 ultimate buster 1
SNP_4709_A_36542372	NC_021160.1	Ca_Kabuli_Chr01	36542372	AA	CC	CC	INTRON	101492030	origin of replication complex subunit 3
SNP_4710_A_36572256	NC_021160.1	Ca_Kabuli_Chr01	36572256	TT	CC	CC	DRR	101492369	uncharacterized LOC101492369
SNP_4711_A_36630372	NC_021160.1	Ca_Kabuli_Chr01	36630372	TT	CC	CC	INTERGENIC		
SNP_4712_A_36661470	NC_021160.1	Ca_Kabuli_Chr01	36661470	GG	AA	AA	INTERGENIC		
SNP_4713_A_36661471	NC_021160.1	Ca_Kabuli_Chr01	36661471	GG	AA	AA	INTERGENIC		
SNP_4714_A_36711602	NC_021160.1	Ca_Kabuli_Chr01	36711602	CC	TT	TT	INTERGENIC		
SNP_4715_A_36720129	NC_021160.1	Ca_Kabuli_Chr01	36720129	CC	TT	TT	INTRON	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4716_A_36720238	NC_021160.1	Ca_Kabuli_Chr01	36720238	TT	GG	GG	NON_SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4717_A_36720362	NC_021160.1	Ca_Kabuli_Chr01	36720362	CC	GG	GG	SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4718_A_36720469	NC_021160.1	Ca_Kabuli_Chr01	36720469	TT	CC	CC	NON_SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4719_A_36720512	NC_021160.1	Ca_Kabuli_Chr01	36720512	AA	CC	CC	NON_SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4720_A_36720676	NC_021160.1	Ca_Kabuli_Chr01	36720676	CC	TT	TT	INTRON	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4721_A_36720726	NC_021160.1	Ca_Kabuli_Chr01	36720726	AA	TT	TT	INTRON	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4722_A_36720753	NC_021160.1	Ca_Kabuli_Chr01	36720753	AA	GG	GG	INTRON	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4723_A_36720797	NC_021160.1	Ca_Kabuli_Chr01	36720797	TT	CC	CC	INTRON	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4724_A_36721516	NC_021160.1	Ca_Kabuli_Chr01	36721516	AA	GG	GG	NON_SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4725_A_36721673	NC_021160.1	Ca_Kabuli_Chr01	36721673	CC	TT	TT	SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4726_A_36721753	NC_021160.1	Ca_Kabuli_Chr01	36721753	CC	TT	TT	NON_SYNONYMOUS_CODING	101497127	probable pectinesterase/pectinesterase inhibitor 32

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4727_A_36722074	NC_021160.1	Ca_Kabuli_Chr01	36722074	AA	GG	GG	URR	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4728_A_36722108	NC_021160.1	Ca_Kabuli_Chr01	36722108	TT	GG	GG	URR	101497127	probable pectinesterase/pectinesterase inhibitor 32
SNP_4729_A_36724411	NC_021160.1	Ca_Kabuli_Chr01	36724411	TT	GG	GG	INTERGENIC		
SNP_4730_A_36724418	NC_021160.1	Ca_Kabuli_Chr01	36724418	GG	TT	TT	INTERGENIC		
SNP_4731_A_36724484	NC_021160.1	Ca_Kabuli_Chr01	36724484	CC	AA	AA	INTERGENIC		
SNP_4732_A_36724490	NC_021160.1	Ca_Kabuli_Chr01	36724490	TT	AA	AA	INTERGENIC		
SNP_4733_A_36724560	NC_021160.1	Ca_Kabuli_Chr01	36724560	GG	AA	AA	INTERGENIC		
SNP_4734_A_36724627	NC_021160.1	Ca_Kabuli_Chr01	36724627	AA	GG	GG	INTERGENIC		
SNP_4735_A_36724684	NC_021160.1	Ca_Kabuli_Chr01	36724684	TT	AA	AA	INTERGENIC		
SNP_4736_A_36724691	NC_021160.1	Ca_Kabuli_Chr01	36724691	GG	TT	TT	INTERGENIC		
SNP_4737_A_36724696	NC_021160.1	Ca_Kabuli_Chr01	36724696	GG	CC	CC	INTERGENIC		
SNP_4738_A_36724698	NC_021160.1	Ca_Kabuli_Chr01	36724698	TT	CC	CC	INTERGENIC		
SNP_4739_A_36724701	NC_021160.1	Ca_Kabuli_Chr01	36724701	CC	TT	TT	INTERGENIC		
SNP_4740_A_36724815	NC_021160.1	Ca_Kabuli_Chr01	36724815	GG	AA	AA	INTERGENIC		
SNP_4741_A_36724912	NC_021160.1	Ca_Kabuli_Chr01	36724912	AA	TT	TT	INTERGENIC		
SNP_4742_A_36725129	NC_021160.1	Ca_Kabuli_Chr01	36725129	TT	CC	CC	INTERGENIC		
SNP_4743_A_36725172	NC_021160.1	Ca_Kabuli_Chr01	36725172	TT	CC	CC	INTERGENIC		
SNP_4744_A_36725211	NC_021160.1	Ca_Kabuli_Chr01	36725211	TT	CC	CC	INTERGENIC		
SNP_4745_A_36725374	NC_021160.1	Ca_Kabuli_Chr01	36725374	TT	GG	GG	INTERGENIC		
SNP_4746_A_36725414	NC_021160.1	Ca_Kabuli_Chr01	36725414	TT	CC	CC	INTERGENIC		
SNP_4747_A_36725466	NC_021160.1	Ca_Kabuli_Chr01	36725466	AA	GG	GG	INTERGENIC		
SNP_4748_A_36725513	NC_021160.1	Ca_Kabuli_Chr01	36725513	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4749_A_36725615	NC_021160.1	Ca_Kabuli_Chr01	36725615	CC	GG	GG	INTERGENIC			
SNP_4750_A_36725674	NC_021160.1	Ca_Kabuli_Chr01	36725674	TT	CC	CC	INTERGENIC			
SNP_4751_A_36725740	NC_021160.1	Ca_Kabuli_Chr01	36725740	GG	TT	TT	INTERGENIC			
SNP_4752_A_36725879	NC_021160.1	Ca_Kabuli_Chr01	36725879	TT	AA	AA	INTERGENIC			
SNP_4753_A_36725954	NC_021160.1	Ca_Kabuli_Chr01	36725954	GG	TT	TT	INTERGENIC			
SNP_4754_A_36725986	NC_021160.1	Ca_Kabuli_Chr01	36725986	AA	GG	GG	INTERGENIC			
SNP_4755_A_36726144	NC_021160.1	Ca_Kabuli_Chr01	36726144	CC	TT	TT	INTERGENIC			
SNP_4756_A_36726147	NC_021160.1	Ca_Kabuli_Chr01	36726147	TT	CC	CC	INTERGENIC			
SNP_4757_A_36726178	NC_021160.1	Ca_Kabuli_Chr01	36726178	CC	AA	AA	INTERGENIC			
SNP_4758_A_36726188	NC_021160.1	Ca_Kabuli_Chr01	36726188	AA	CC	CC	INTERGENIC			
SNP_4759_A_36726213	NC_021160.1	Ca_Kabuli_Chr01	36726213	CC	TT	TT	INTERGENIC			
SNP_4760_A_36726216	NC_021160.1	Ca_Kabuli_Chr01	36726216	CC	AA	AA	INTERGENIC			
SNP_4761_A_36726228	NC_021160.1	Ca_Kabuli_Chr01	36726228	AA	GG	GG	INTERGENIC			
SNP_4762_A_36726281	NC_021160.1	Ca_Kabuli_Chr01	36726281	AA	GG	GG	INTERGENIC			
SNP_4763_A_36726312	NC_021160.1	Ca_Kabuli_Chr01	36726312	AA	CC	CC	INTERGENIC			
SNP_4764_A_36726451	NC_021160.1	Ca_Kabuli_Chr01	36726451	TT	CC	CC	INTERGENIC			
SNP_4765_A_36726454	NC_021160.1	Ca_Kabuli_Chr01	36726454	AA	CC	CC	INTERGENIC			
SNP_4767_A_36726518	NC_021160.1	Ca_Kabuli_Chr01	36726518	AA	GG	GG	INTERGENIC			
SNP_4768_A_36726535	NC_021160.1	Ca_Kabuli_Chr01	36726535	CC	TT	TT	INTERGENIC			
SNP_4769_A_36726641	NC_021160.1	Ca_Kabuli_Chr01	36726641	GG	AA	AA	INTERGENIC			
SNP_4770_A_36726647	NC_021160.1	Ca_Kabuli_Chr01	36726647	TT	CC	CC	INTERGENIC			
SNP_4771_A_36726731	NC_021160.1	Ca_Kabuli_Chr01	36726731	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4773_A_36727840	NC_021160.1	Ca_Kabuli_Chr01	36727840	GG	AA	AA	INTERGENIC		
SNP_4774_A_36727843	NC_021160.1	Ca_Kabuli_Chr01	36727843	GG	CC	CC	INTERGENIC		
SNP_4775_A_36727911	NC_021160.1	Ca_Kabuli_Chr01	36727911	TT	CC	CC	INTERGENIC		
SNP_4776_A_36727949	NC_021160.1	Ca_Kabuli_Chr01	36727949	CC	GG	GG	INTERGENIC		
SNP_4777_A_36728056	NC_021160.1	Ca_Kabuli_Chr01	36728056	AA	CC	CC	INTERGENIC		
SNP_4778_A_36728086	NC_021160.1	Ca_Kabuli_Chr01	36728086	GG	TT	TT	INTERGENIC		
SNP_4779_A_36728207	NC_021160.1	Ca_Kabuli_Chr01	36728207	GG	AA	AA	INTERGENIC		
SNP_4780_A_36728235	NC_021160.1	Ca_Kabuli_Chr01	36728235	AA	TT	TT	INTERGENIC		
SNP_4781_A_36728412	NC_021160.1	Ca_Kabuli_Chr01	36728412	CC	TT	TT	INTERGENIC		
SNP_4782_A_36737930	NC_021160.1	Ca_Kabuli_Chr01	36737930	AA	GG	GG	INTRON	101493574	CBL-interacting serine/threonine-protein kinase 23
SNP_4783_A_36738279	NC_021160.1	Ca_Kabuli_Chr01	36738279	CC	AA	AA	INTRON	101493574	CBL-interacting serine/threonine-protein kinase 23
SNP_4784_A_36766234	NC_021160.1	Ca_Kabuli_Chr01	36766234	TT	CC	CC	INTERGENIC		
SNP_4785_A_36833990	NC_021160.1	Ca_Kabuli_Chr01	36833990	TT	CC	CC	INTERGENIC		
SNP_4786_A_36842671	NC_021160.1	Ca_Kabuli_Chr01	36842671	CC	TT	TT	INTERGENIC		
SNP_4787_A_36842679	NC_021160.1	Ca_Kabuli_Chr01	36842679	GG	AA	AA	INTERGENIC		
SNP_4788_A_36846500	NC_021160.1	Ca_Kabuli_Chr01	36846500	CC	GG	GG	INTERGENIC		
SNP_4789_A_36846642	NC_021160.1	Ca_Kabuli_Chr01	36846642	CC	TT	TT	INTERGENIC		
SNP_4790_A_36846677	NC_021160.1	Ca_Kabuli_Chr01	36846677	TT	CC	CC	INTERGENIC		
SNP_4791_A_36848218	NC_021160.1	Ca_Kabuli_Chr01	36848218	TT	CC	CC	INTERGENIC		
SNP_4792_A_36848226	NC_021160.1	Ca_Kabuli_Chr01	36848226	TT	CC	CC	INTERGENIC		
SNP_4793_A_36869020	NC_021160.1	Ca_Kabuli_Chr01	36869020	AA	GG	GG	INTERGENIC		
SNP_4794_A_36869134	NC_021160.1	Ca_Kabuli_Chr01	36869134	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4795_A_36869170	NC_021160.1	Ca_Kabuli_Chr01	36869170	TT	GG	GG	INTERGENIC			
SNP_4796_A_36869173	NC_021160.1	Ca_Kabuli_Chr01	36869173	AA	GG	CC	INTERGENIC			
SNP_4797_A_36869204	NC_021160.1	Ca_Kabuli_Chr01	36869204	TT	AA	AA	INTERGENIC			
SNP_4798_A_36869208	NC_021160.1	Ca_Kabuli_Chr01	36869208	TT	CC	CC	INTERGENIC			
SNP_4799_A_36869213	NC_021160.1	Ca_Kabuli_Chr01	36869213	GG	AA	AA	INTERGENIC			
SNP_4800_A_36869214	NC_021160.1	Ca_Kabuli_Chr01	36869214	TT	GG	GG	INTERGENIC			
SNP_4801_A_36869217	NC_021160.1	Ca_Kabuli_Chr01	36869217	AA	GG	GG	INTERGENIC			
SNP_4802_A_36869355	NC_021160.1	Ca_Kabuli_Chr01	36869355	GG	AA	AA	INTERGENIC			
SNP_4803_A_36876884	NC_021160.1	Ca_Kabuli_Chr01	36876884	CC	TT	TT	INTERGENIC			
SNP_4804_A_36876926	NC_021160.1	Ca_Kabuli_Chr01	36876926	GG	TT	TT	INTERGENIC			
SNP_4805_A_36900394	NC_021160.1	Ca_Kabuli_Chr01	36900394	AA	TT	TT	INTERGENIC			
SNP_4806_A_36949227	NC_021160.1	Ca_Kabuli_Chr01	36949227	TT	GG	GG	INTERGENIC			
SNP_4807_A_36949242	NC_021160.1	Ca_Kabuli_Chr01	36949242	TT	CC	CC	INTERGENIC			
SNP_4808_A_36950139	NC_021160.1	Ca_Kabuli_Chr01	36950139	TT	CC	CC	INTERGENIC			
SNP_4809_A_36950141	NC_021160.1	Ca_Kabuli_Chr01	36950141	CC	GG	GG	INTERGENIC			
SNP_4810_A_36950145	NC_021160.1	Ca_Kabuli_Chr01	36950145	AA	TT	TT	INTERGENIC			
SNP_4811_A_36950146	NC_021160.1	Ca_Kabuli_Chr01	36950146	CC	GG	GG	INTERGENIC			
SNP_4812_A_36950150	NC_021160.1	Ca_Kabuli_Chr01	36950150	CC	GG	GG	INTERGENIC			
SNP_4813_A_36950222	NC_021160.1	Ca_Kabuli_Chr01	36950222	CC	TT	TT	INTERGENIC			
SNP_4814_A_36950225	NC_021160.1	Ca_Kabuli_Chr01	36950225	TT	GG	GG	INTERGENIC			
SNP_4815_A_36950252	NC_021160.1	Ca_Kabuli_Chr01	36950252	GG	AA	AA	INTERGENIC			
SNP_4816_A_36950600	NC_021160.1	Ca_Kabuli_Chr01	36950600	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4817_A_37032238	NC_021160.1	Ca_Kabuli_Chr01	37032238	CC	TT	TT	INTERGENIC		
SNP_4818_A_37032712	NC_021160.1	Ca_Kabuli_Chr01	37032712	TT	GG	GG	INTERGENIC		
SNP_4819_A_37037162	NC_021160.1	Ca_Kabuli_Chr01	37037162	AA	GG	GG	INTERGENIC		
SNP_4820_A_37037862	NC_021160.1	Ca_Kabuli_Chr01	37037862	TT	CC	CC	INTERGENIC		
SNP_4821_A_37050927	NC_021160.1	Ca_Kabuli_Chr01	37050927	TT	CC	CC	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4822_A_37050940	NC_021160.1	Ca_Kabuli_Chr01	37050940	TT	CC	CC	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4823_A_37051242	NC_021160.1	Ca_Kabuli_Chr01	37051242	TT	AA	AA	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4824_A_37054623	NC_021160.1	Ca_Kabuli_Chr01	37054623	CC	AA	AA	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4825_A_37054693	NC_021160.1	Ca_Kabuli_Chr01	37054693	TT	CC	CC	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4826_A_37054956	NC_021160.1	Ca_Kabuli_Chr01	37054956	CC	TT	TT	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4827_A_37055062	NC_021160.1	Ca_Kabuli_Chr01	37055062	CC	TT	TT	INTRON	101502181	nudix hydrolase 19, chloroplastic-like
SNP_4830_A_37078520	NC_021160.1	Ca_Kabuli_Chr01	37078520	CC	TT	TT	INTERGENIC		
SNP_4831_A_37078526	NC_021160.1	Ca_Kabuli_Chr01	37078526	GG	AA	AA	INTERGENIC		
SNP_4832_A_37078539	NC_021160.1	Ca_Kabuli_Chr01	37078539	TT	CC	CC	INTERGENIC		
SNP_4833_A_37078596	NC_021160.1	Ca_Kabuli_Chr01	37078596	GG	AA	AA	INTERGENIC		
SNP_4834_A_37078606	NC_021160.1	Ca_Kabuli_Chr01	37078606	TT	GG	GG	INTERGENIC		
SNP_4835_A_37078640	NC_021160.1	Ca_Kabuli_Chr01	37078640	CC	TT	TT	INTERGENIC		
SNP_4836_A_37078663	NC_021160.1	Ca_Kabuli_Chr01	37078663	AA	TT	TT	INTERGENIC		
SNP_4837_A_37078668	NC_021160.1	Ca_Kabuli_Chr01	37078668	AA	GG	GG	INTERGENIC		
SNP_4838_A_37078718	NC_021160.1	Ca_Kabuli_Chr01	37078718	CC	AA	AA	INTERGENIC		
SNP_4839_A_37078784	NC_021160.1	Ca_Kabuli_Chr01	37078784	AA	TT	TT	INTERGENIC		
SNP_4840_A_37078790	NC_021160.1	Ca_Kabuli_Chr01	37078790	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4841_A_37078851	NC_021160.1	Ca_Kabuli_Chr01	37078851	TT	CC	CC	INTERGENIC		
SNP_4842_A_37078862	NC_021160.1	Ca_Kabuli_Chr01	37078862	AA	TT	TT	INTERGENIC		
SNP_4844_A_37078986	NC_021160.1	Ca_Kabuli_Chr01	37078986	CC	AA	AA	INTERGENIC		
SNP_4845_A_37079023	NC_021160.1	Ca_Kabuli_Chr01	37079023	TT	CC	CC	INTERGENIC		
SNP_4846_A_37079031	NC_021160.1	Ca_Kabuli_Chr01	37079031	AA	CC	CC	INTERGENIC		
SNP_4847_A_37079038	NC_021160.1	Ca_Kabuli_Chr01	37079038	CC	GG	GG	INTERGENIC		
SNP_4848_A_37079093	NC_021160.1	Ca_Kabuli_Chr01	37079093	CC	TT	TT	INTERGENIC		
SNP_4849_A_37081722	NC_021160.1	Ca_Kabuli_Chr01	37081722	CC	TT	TT	INTERGENIC		
SNP_4850_A_37082115	NC_021160.1	Ca_Kabuli_Chr01	37082115	TT	CC	CC	INTERGENIC		
SNP_4851_A_37112912	NC_021160.1	Ca_Kabuli_Chr01	37112912	AA	GG	GG	NON_SYNONYMOUS_CODING	101503120	Unknown function
SNP_4852_A_37120760	NC_021160.1	Ca_Kabuli_Chr01	37120760	TT	AA	AA	INTERGENIC		
SNP_4853_A_37120833	NC_021160.1	Ca_Kabuli_Chr01	37120833	AA	CC	CC	INTERGENIC		
SNP_4854_A_37120844	NC_021160.1	Ca_Kabuli_Chr01	37120844	GG	TT	TT	INTERGENIC		
SNP_4855_A_37120867	NC_021160.1	Ca_Kabuli_Chr01	37120867	TT	AA	AA	INTERGENIC		
SNP_4856_A_37120925	NC_021160.1	Ca_Kabuli_Chr01	37120925	AA	GG	GG	INTERGENIC		
SNP_4857_A_37120966	NC_021160.1	Ca_Kabuli_Chr01	37120966	AA	GG	GG	INTERGENIC		
SNP_4858_A_37120967	NC_021160.1	Ca_Kabuli_Chr01	37120967	TT	GG	GG	INTERGENIC		
SNP_4859_A_37121059	NC_021160.1	Ca_Kabuli_Chr01	37121059	AA	GG	GG	INTERGENIC		
SNP_4860_A_37121094	NC_021160.1	Ca_Kabuli_Chr01	37121094	TT	CC	CC	INTERGENIC		
SNP_4861_A_37121100	NC_021160.1	Ca_Kabuli_Chr01	37121100	GG	AA	AA	INTERGENIC		
SNP_4862_A_37121121	NC_021160.1	Ca_Kabuli_Chr01	37121121	TT	CC	CC	INTERGENIC		
SNP_4863_A_37121152	NC_021160.1	Ca_Kabuli_Chr01	37121152	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4864_A_37121213	NC_021160.1	Ca_Kabuli_Chr01	37121213	TT	AA	AA	INTERGENIC			
SNP_4865_A_37121228	NC_021160.1	Ca_Kabuli_Chr01	37121228	GG	AA	AA	INTERGENIC			
SNP_4866_A_37121360	NC_021160.1	Ca_Kabuli_Chr01	37121360	AA	GG	GG	INTERGENIC			
SNP_4867_A_37121548	NC_021160.1	Ca_Kabuli_Chr01	37121548	CC	TT	TT	INTERGENIC			
SNP_4868_A_37121638	NC_021160.1	Ca_Kabuli_Chr01	37121638	TT	AA	AA	INTERGENIC			
SNP_4869_A_37121663	NC_021160.1	Ca_Kabuli_Chr01	37121663	GG	AA	AA	INTERGENIC			
SNP_4870_A_37121682	NC_021160.1	Ca_Kabuli_Chr01	37121682	TT	CC	CC	INTERGENIC			
SNP_4871_A_37121704	NC_021160.1	Ca_Kabuli_Chr01	37121704	AA	TT	TT	INTERGENIC			
SNP_4872_A_37121762	NC_021160.1	Ca_Kabuli_Chr01	37121762	TT	CC	CC	INTERGENIC			
SNP_4873_A_37121830	NC_021160.1	Ca_Kabuli_Chr01	37121830	CC	TT	TT	INTERGENIC			
SNP_4874_A_37121835	NC_021160.1	Ca_Kabuli_Chr01	37121835	CC	AA	AA	INTERGENIC			
SNP_4875_A_37121858	NC_021160.1	Ca_Kabuli_Chr01	37121858	TT	CC	CC	INTERGENIC			
SNP_4876_A_37121872	NC_021160.1	Ca_Kabuli_Chr01	37121872	GG	AA	AA	INTERGENIC			
SNP_4877_A_37121893	NC_021160.1	Ca_Kabuli_Chr01	37121893	GG	AA	AA	INTERGENIC			
SNP_4878_A_37121901	NC_021160.1	Ca_Kabuli_Chr01	37121901	AA	GG	GG	INTERGENIC			
SNP_4879_A_37121996	NC_021160.1	Ca_Kabuli_Chr01	37121996	TT	CC	CC	INTERGENIC			
SNP_4882_A_37122241	NC_021160.1	Ca_Kabuli_Chr01	37122241	CC	TT	TT	INTERGENIC			
SNP_4883_A_37122245	NC_021160.1	Ca_Kabuli_Chr01	37122245	AA	CC	CC	INTERGENIC			
SNP_4884_A_37122252	NC_021160.1	Ca_Kabuli_Chr01	37122252	CC	TT	TT	INTERGENIC			
SNP_4885_A_37122254	NC_021160.1	Ca_Kabuli_Chr01	37122254	AA	TT	TT	INTERGENIC			
SNP_4886_A_37122278	NC_021160.1	Ca_Kabuli_Chr01	37122278	AA	CC	CC	INTERGENIC			
SNP_4887_A_37122355	NC_021160.1	Ca_Kabuli_Chr01	37122355	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4888_A_37122468	NC_021160.1	Ca_Kabuli_Chr01	37122468	GG	CC	CC	INTERGENIC			
SNP_4889_A_37122479	NC_021160.1	Ca_Kabuli_Chr01	37122479	TT	AA	AA	INTERGENIC			
SNP_4891_A_37122545	NC_021160.1	Ca_Kabuli_Chr01	37122545	GG	AA	AA	INTERGENIC			
SNP_4892_A_37122670	NC_021160.1	Ca_Kabuli_Chr01	37122670	AA	TT	TT	INTERGENIC			
SNP_4893_A_37122693	NC_021160.1	Ca_Kabuli_Chr01	37122693	AA	GG	GG	INTERGENIC			
SNP_4895_A_37122755	NC_021160.1	Ca_Kabuli_Chr01	37122755	TT	GG	GG	INTERGENIC			
SNP_4896_A_37122764	NC_021160.1	Ca_Kabuli_Chr01	37122764	TT	CC	CC	INTERGENIC			
SNP_4897_A_37122783	NC_021160.1	Ca_Kabuli_Chr01	37122783	GG	AA	AA	INTERGENIC			
SNP_4898_A_37122797	NC_021160.1	Ca_Kabuli_Chr01	37122797	CC	TT	TT	INTERGENIC			
SNP_4900_A_37122903	NC_021160.1	Ca_Kabuli_Chr01	37122903	TT	CC	CC	INTERGENIC			
SNP_4901_A_37122921	NC_021160.1	Ca_Kabuli_Chr01	37122921	AA	GG	GG	INTERGENIC			
SNP_4902_A_37122932	NC_021160.1	Ca_Kabuli_Chr01	37122932	AA	GG	GG	INTERGENIC			
SNP_4903_A_37122983	NC_021160.1	Ca_Kabuli_Chr01	37122983	TT	CC	CC	INTERGENIC			
SNP_4904_A_37122986	NC_021160.1	Ca_Kabuli_Chr01	37122986	GG	TT	TT	INTERGENIC			
SNP_4905_A_37122993	NC_021160.1	Ca_Kabuli_Chr01	37122993	GG	AA	AA	INTERGENIC			
SNP_4906_A_37123014	NC_021160.1	Ca_Kabuli_Chr01	37123014	TT	CC	CC	INTERGENIC			
SNP_4907_A_37123110	NC_021160.1	Ca_Kabuli_Chr01	37123110	AA	TT	TT	INTERGENIC			
SNP_4909_A_37126557	NC_021160.1	Ca_Kabuli_Chr01	37126557	GG	AA	AA	INTERGENIC			
SNP_4910_A_37128375	NC_021160.1	Ca_Kabuli_Chr01	37128375	CC	TT	TT	INTERGENIC			
SNP_4912_A_37128912	NC_021160.1	Ca_Kabuli_Chr01	37128912	AA	TT	TT	INTERGENIC			
SNP_4913_A_37128921	NC_021160.1	Ca_Kabuli_Chr01	37128921	AA	CC	CC	INTERGENIC			
SNP_4914_A_37128931	NC_021160.1	Ca_Kabuli_Chr01	37128931	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4915_A_37128964	NC_021160.1	Ca_Kabuli_Chr01	37128964	TT	CC	CC	INTERGENIC		
SNP_4916_A_37129025	NC_021160.1	Ca_Kabuli_Chr01	37129025	TT	CC	CC	INTERGENIC		
SNP_4917_A_37129151	NC_021160.1	Ca_Kabuli_Chr01	37129151	GG	AA	AA	INTERGENIC		
SNP_4918_A_37130856	NC_021160.1	Ca_Kabuli_Chr01	37130856	TT	AA	AA	INTERGENIC		
SNP_4919_A_37157298	NC_021160.1	Ca_Kabuli_Chr01	37157298	TT	CC	CC	INTERGENIC		
SNP_4920_A_37157493	NC_021160.1	Ca_Kabuli_Chr01	37157493	AA	GG	GG	INTERGENIC		
SNP_4921_A_37176084	NC_021160.1	Ca_Kabuli_Chr01	37176084	GG	AA	AA	INTERGENIC		
SNP_4922_A_37183863	NC_021160.1	Ca_Kabuli_Chr01	37183863	GG	AA	AA	INTERGENIC		
SNP_4923_A_37197508	NC_021160.1	Ca_Kabuli_Chr01	37197508	GG	TT	TT	URR	101498115	nudix hydrolase 19, chloroplastic
SNP_4924_A_37216257	NC_021160.1	Ca_Kabuli_Chr01	37216257	AA	CC	CC	INTERGENIC		
SNP_4925_A_37243095	NC_021160.1	Ca_Kabuli_Chr01	37243095	AA	GG	GG	INTERGENIC		
SNP_4926_A_37251834	NC_021160.1	Ca_Kabuli_Chr01	37251834	GG	CC	CC	INTERGENIC		
SNP_4928_A_37353715	NC_021160.1	Ca_Kabuli_Chr01	37353715	TT	CC	CC	INTERGENIC		
SNP_4930_A_37392862	NC_021160.1	Ca_Kabuli_Chr01	37392862	AA	TT	TT	INTERGENIC		
SNP_4931_A_37406232	NC_021160.1	Ca_Kabuli_Chr01	37406232	AA	CC	CC	INTERGENIC		
SNP_4932_A_37406352	NC_021160.1	Ca_Kabuli_Chr01	37406352	TT	CC	CC	INTERGENIC		
SNP_4933_A_37406566	NC_021160.1	Ca_Kabuli_Chr01	37406566	CC	TT	TT	INTERGENIC		
SNP_4934_A_37406575	NC_021160.1	Ca_Kabuli_Chr01	37406575	TT	AA	AA	INTERGENIC		
SNP_4935_A_37406586	NC_021160.1	Ca_Kabuli_Chr01	37406586	TT	CC	CC	INTERGENIC		
SNP_4936_A_37409727	NC_021160.1	Ca_Kabuli_Chr01	37409727	TT	GG	GG	INTERGENIC		
SNP_4937_A_37409796	NC_021160.1	Ca_Kabuli_Chr01	37409796	GG	AA	AA	INTERGENIC		
SNP_4938_A_37409823	NC_021160.1	Ca_Kabuli_Chr01	37409823	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4939_A_37409842	NC_021160.1	Ca_Kabuli_Chr01	37409842	GG	AA	AA	INTERGENIC			
SNP_4940_A_37409886	NC_021160.1	Ca_Kabuli_Chr01	37409886	GG	AA	AA	INTERGENIC			
SNP_4941_A_37409918	NC_021160.1	Ca_Kabuli_Chr01	37409918	TT	CC	CC	INTERGENIC			
SNP_4942_A_37409960	NC_021160.1	Ca_Kabuli_Chr01	37409960	TT	CC	CC	INTERGENIC			
SNP_4943_A_37409983	NC_021160.1	Ca_Kabuli_Chr01	37409983	AA	GG	GG	INTERGENIC			
SNP_4944_A_37410020	NC_021160.1	Ca_Kabuli_Chr01	37410020	TT	CC	CC	INTERGENIC			
SNP_4945_A_37410040	NC_021160.1	Ca_Kabuli_Chr01	37410040	TT	CC	CC	INTERGENIC			
SNP_4946_A_37410061	NC_021160.1	Ca_Kabuli_Chr01	37410061	GG	AA	AA	INTERGENIC			
SNP_4947_A_37410106	NC_021160.1	Ca_Kabuli_Chr01	37410106	AA	GG	GG	INTERGENIC			
SNP_4948_A_37410115	NC_021160.1	Ca_Kabuli_Chr01	37410115	TT	CC	CC	INTERGENIC			
SNP_4949_A_37410117	NC_021160.1	Ca_Kabuli_Chr01	37410117	AA	GG	GG	INTERGENIC			
SNP_4950_A_37410118	NC_021160.1	Ca_Kabuli_Chr01	37410118	TT	AA	AA	INTERGENIC			
SNP_4951_A_37410140	NC_021160.1	Ca_Kabuli_Chr01	37410140	GG	AA	AA	INTERGENIC			
SNP_4952_A_37410145	NC_021160.1	Ca_Kabuli_Chr01	37410145	GG	TT	TT	INTERGENIC			
SNP_4953_A_37410194	NC_021160.1	Ca_Kabuli_Chr01	37410194	AA	GG	GG	INTERGENIC			
SNP_4954_A_37410203	NC_021160.1	Ca_Kabuli_Chr01	37410203	GG	AA	AA	INTERGENIC			
SNP_4955_A_37410247	NC_021160.1	Ca_Kabuli_Chr01	37410247	TT	GG	GG	INTERGENIC			
SNP_4956_A_37410269	NC_021160.1	Ca_Kabuli_Chr01	37410269	TT	CC	CC	INTERGENIC			
SNP_4957_A_37410277	NC_021160.1	Ca_Kabuli_Chr01	37410277	GG	CC	CC	INTERGENIC			
SNP_4958_A_37410353	NC_021160.1	Ca_Kabuli_Chr01	37410353	CC	GG	GG	INTERGENIC			
SNP_4959_A_37410355	NC_021160.1	Ca_Kabuli_Chr01	37410355	AA	GG	GG	INTERGENIC			
SNP_4961_A_37410514	NC_021160.1	Ca_Kabuli_Chr01	37410514	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_4962_A_37411891	NC_021160.1	Ca_Kabuli_Chr01	37411891	TT	CC	CC	DRR	101500587	pentatricopeptide repeat-containing protein At5g66520-like
SNP_4963_A_37411921	NC_021160.1	Ca_Kabuli_Chr01	37411921	AA	CC	CC	DRR	101500587	pentatricopeptide repeat-containing protein At5g66520-like
SNP_4964_A_37411929	NC_021160.1	Ca_Kabuli_Chr01	37411929	TT	CC	CC	DRR	101500587	pentatricopeptide repeat-containing protein At5g66520-like
SNP_4965_A_37412205	NC_021160.1	Ca_Kabuli_Chr01	37412205	CC	AA	AA	DRR	101500587	pentatricopeptide repeat-containing protein At5g66520-like
SNP_4967_A_37412352	NC_021160.1	Ca_Kabuli_Chr01	37412352	CC	AA	AA	DRR	101500587	pentatricopeptide repeat-containing protein At5g66520-like
SNP_4968_A_37419467	NC_021160.1	Ca_Kabuli_Chr01	37419467	AA	GG	GG	INTRON	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4969_A_37419739	NC_021160.1	Ca_Kabuli_Chr01	37419739	AA	GG	GG	NON_SYNONYMOUS_CODING	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4970_A_37420129	NC_021160.1	Ca_Kabuli_Chr01	37420129	TT	CC	CC	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4971_A_37420247	NC_021160.1	Ca_Kabuli_Chr01	37420247	GG	TT	TT	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4972_A_37420266	NC_021160.1	Ca_Kabuli_Chr01	37420266	AA	CC	CC	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4973_A_37420521	NC_021160.1	Ca_Kabuli_Chr01	37420521	CC	AA	AA	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4974_A_37420570	NC_021160.1	Ca_Kabuli_Chr01	37420570	TT	GG	GG	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4976_A_37420606	NC_021160.1	Ca_Kabuli_Chr01	37420606	GG	AA	AA	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4977_A_37420696	NC_021160.1	Ca_Kabuli_Chr01	37420696	GG	AA	AA	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4978_A_37420702	NC_021160.1	Ca_Kabuli_Chr01	37420702	CC	TT	TT	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4979_A_37421049	NC_021160.1	Ca_Kabuli_Chr01	37421049	AA	CC	CC	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4981_A_37421134	NC_021160.1	Ca_Kabuli_Chr01	37421134	GG	AA	AA	URR	101504417	NADP-dependent alkenal double bond reductase P1-like
SNP_4982_A_37422380	NC_021160.1	Ca_Kabuli_Chr01	37422380	TT	AA	AA	INTERGENIC		
SNP_4983_A_37422419	NC_021160.1	Ca_Kabuli_Chr01	37422419	TT	AA	AA	INTERGENIC		
SNP_4984_A_37422473	NC_021160.1	Ca_Kabuli_Chr01	37422473	GG	AA	AA	INTERGENIC		
SNP_4985_A_37422561	NC_021160.1	Ca_Kabuli_Chr01	37422561	AA	TT	TT	INTERGENIC		
SNP_4986_A_37422569	NC_021160.1	Ca_Kabuli_Chr01	37422569	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_4987_A_37422692	NC_021160.1	Ca_Kabuli_Chr01	37422692	CC	TT	TT	INTERGENIC			
SNP_4988_A_37422872	NC_021160.1	Ca_Kabuli_Chr01	37422872	AA	GG	GG	INTERGENIC			
SNP_4989_A_37422996	NC_021160.1	Ca_Kabuli_Chr01	37422996	CC	GG	GG	INTERGENIC			
SNP_4990_A_37423210	NC_021160.1	Ca_Kabuli_Chr01	37423210	TT	CC	CC	INTERGENIC			
SNP_4991_A_37424235	NC_021160.1	Ca_Kabuli_Chr01	37424235	TT	GG	GG	INTERGENIC			
SNP_4992_A_37424240	NC_021160.1	Ca_Kabuli_Chr01	37424240	CC	TT	TT	INTERGENIC			
SNP_4994_A_37424411	NC_021160.1	Ca_Kabuli_Chr01	37424411	GG	TT	CC	INTERGENIC			
SNP_4995_A_37424486	NC_021160.1	Ca_Kabuli_Chr01	37424486	CC	GG	GG	INTERGENIC			
SNP_4996_A_37424513	NC_021160.1	Ca_Kabuli_Chr01	37424513	TT	GG	GG	INTERGENIC			
SNP_4997_A_37424550	NC_021160.1	Ca_Kabuli_Chr01	37424550	CC	TT	TT	INTERGENIC			
SNP_4998_A_37424582	NC_021160.1	Ca_Kabuli_Chr01	37424582	GG	TT	TT	INTERGENIC			
SNP_4999_A_37424592	NC_021160.1	Ca_Kabuli_Chr01	37424592	TT	CC	CC	INTERGENIC			
SNP_5000_A_37424599	NC_021160.1	Ca_Kabuli_Chr01	37424599	TT	GG	GG	INTERGENIC			
SNP_5001_A_37424646	NC_021160.1	Ca_Kabuli_Chr01	37424646	AA	GG	GG	INTERGENIC			
SNP_5002_A_37424797	NC_021160.1	Ca_Kabuli_Chr01	37424797	TT	GG	GG	INTERGENIC			
SNP_5003_A_37424857	NC_021160.1	Ca_Kabuli_Chr01	37424857	CC	TT	TT	INTERGENIC			
SNP_5004_A_37424873	NC_021160.1	Ca_Kabuli_Chr01	37424873	GG	TT	TT	INTERGENIC			
SNP_5005_A_37424903	NC_021160.1	Ca_Kabuli_Chr01	37424903	GG	AA	AA	INTERGENIC			
SNP_5006_A_37424945	NC_021160.1	Ca_Kabuli_Chr01	37424945	GG	TT	TT	INTERGENIC			
SNP_5008_A_37424995	NC_021160.1	Ca_Kabuli_Chr01	37424995	AA	GG	GG	INTERGENIC			
SNP_5009_A_37425011	NC_021160.1	Ca_Kabuli_Chr01	37425011	AA	GG	GG	INTERGENIC			
SNP_5010_A_37425061	NC_021160.1	Ca_Kabuli_Chr01	37425061	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5011_A_37425092	NC_021160.1	Ca_Kabuli_Chr01	37425092	CC	TT	TT	INTERGENIC		
SNP_5013_A_37425240	NC_021160.1	Ca_Kabuli_Chr01	37425240	TT	GG	GG	INTERGENIC		
SNP_5014_A_37425536	NC_021160.1	Ca_Kabuli_Chr01	37425536	CC	AA	AA	INTERGENIC		
SNP_5015_A_37425559	NC_021160.1	Ca_Kabuli_Chr01	37425559	TT	GG	GG	INTERGENIC		
SNP_5016_A_37425566	NC_021160.1	Ca_Kabuli_Chr01	37425566	CC	TT	TT	INTERGENIC		
SNP_5017_A_37425577	NC_021160.1	Ca_Kabuli_Chr01	37425577	AA	GG	GG	INTERGENIC		
SNP_5019_A_37425690	NC_021160.1	Ca_Kabuli_Chr01	37425690	TT	CC	CC	INTERGENIC		
SNP_5020_A_37426467	NC_021160.1	Ca_Kabuli_Chr01	37426467	TT	CC	CC	DRR	101504737	serine carboxypeptidase-like 45
SNP_5021_A_37426517	NC_021160.1	Ca_Kabuli_Chr01	37426517	AA	CC	CC	DRR	101504737	serine carboxypeptidase-like 45
SNP_5023_A_37426557	NC_021160.1	Ca_Kabuli_Chr01	37426557	AA	TT	TT	DRR	101504737	serine carboxypeptidase-like 45
SNP_5024_A_37432797	NC_021160.1	Ca_Kabuli_Chr01	37432797	GG	TT	TT	INTERGENIC		
SNP_5025_A_37433005	NC_021160.1	Ca_Kabuli_Chr01	37433005	AA	TT	TT	INTERGENIC		
SNP_5026_A_37433074	NC_021160.1	Ca_Kabuli_Chr01	37433074	TT	CC	CC	INTERGENIC		
SNP_5027_A_37433112	NC_021160.1	Ca_Kabuli_Chr01	37433112	TT	AA	AA	INTERGENIC		
SNP_5028_A_37433340	NC_021160.1	Ca_Kabuli_Chr01	37433340	TT	AA	AA	INTERGENIC		
SNP_5029_A_37433354	NC_021160.1	Ca_Kabuli_Chr01	37433354	CC	TT	TT	INTERGENIC		
SNP_5031_A_37433394	NC_021160.1	Ca_Kabuli_Chr01	37433394	CC	AA	AA	INTERGENIC		
SNP_5032_A_37433505	NC_021160.1	Ca_Kabuli_Chr01	37433505	TT	CC	CC	INTERGENIC		
SNP_5034_A_37433622	NC_021160.1	Ca_Kabuli_Chr01	37433622	CC	TT	TT	INTERGENIC		
SNP_5035_A_37433639	NC_021160.1	Ca_Kabuli_Chr01	37433639	AA	GG	GG	INTERGENIC		
SNP_5036_A_37433751	NC_021160.1	Ca_Kabuli_Chr01	37433751	GG	TT	TT	INTERGENIC		
SNP_5037_A_37446163	NC_021160.1	Ca_Kabuli_Chr01	37446163	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5038_A_37450211	NC_021160.1	Ca_Kabuli_Chr01	37450211	CC	TT	TT	INTERGENIC			
SNP_5039_A_37450284	NC_021160.1	Ca_Kabuli_Chr01	37450284	GG	CC	CC	INTERGENIC			
SNP_5040_A_37450558	NC_021160.1	Ca_Kabuli_Chr01	37450558	AA	CC	CC	INTERGENIC			
SNP_5041_A_37450596	NC_021160.1	Ca_Kabuli_Chr01	37450596	CC	TT	TT	INTERGENIC			
SNP_5042_A_37450636	NC_021160.1	Ca_Kabuli_Chr01	37450636	GG	CC	CC	INTERGENIC			
SNP_5043_A_37450647	NC_021160.1	Ca_Kabuli_Chr01	37450647	AA	CC	CC	INTERGENIC			
SNP_5044_A_37450648	NC_021160.1	Ca_Kabuli_Chr01	37450648	CC	AA	AA	INTERGENIC			
SNP_5045_A_37450660	NC_021160.1	Ca_Kabuli_Chr01	37450660	GG	TT	TT	INTERGENIC			
SNP_5046_A_37450706	NC_021160.1	Ca_Kabuli_Chr01	37450706	CC	TT	TT	INTERGENIC			
SNP_5047_A_37450734	NC_021160.1	Ca_Kabuli_Chr01	37450734	TT	AA	AA	INTERGENIC			
SNP_5048_A_37468434	NC_021160.1	Ca_Kabuli_Chr01	37468434	CC	TT	TT	INTERGENIC			
SNP_5049_A_37468439	NC_021160.1	Ca_Kabuli_Chr01	37468439	TT	GG	GG	INTERGENIC			
SNP_5050_A_37468753	NC_021160.1	Ca_Kabuli_Chr01	37468753	TT	AA	AA	INTERGENIC			
SNP_5051_A_37468852	NC_021160.1	Ca_Kabuli_Chr01	37468852	AA	TT	TT	INTERGENIC			
SNP_5052_A_37469153	NC_021160.1	Ca_Kabuli_Chr01	37469153	TT	AA	AA	INTERGENIC			
SNP_5053_A_37469168	NC_021160.1	Ca_Kabuli_Chr01	37469168	AA	GG	GG	INTERGENIC			
SNP_5054_A_37469180	NC_021160.1	Ca_Kabuli_Chr01	37469180	TT	AA	AA	INTERGENIC			
SNP_5055_A_37469189	NC_021160.1	Ca_Kabuli_Chr01	37469189	CC	AA	AA	INTERGENIC			
SNP_5056_A_37489456	NC_021160.1	Ca_Kabuli_Chr01	37489456	GG	AA	AA	INTERGENIC			
SNP_5057_A_37489596	NC_021160.1	Ca_Kabuli_Chr01	37489596	TT	AA	AA	INTERGENIC			
SNP_5058_A_37489703	NC_021160.1	Ca_Kabuli_Chr01	37489703	CC	AA	AA	INTERGENIC			
SNP_5059_A_37489857	NC_021160.1	Ca_Kabuli_Chr01	37489857	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5060_A_37489902	NC_021160.1	Ca_Kabuli_Chr01	37489902	AA	GG	GG	INTERGENIC		
SNP_5061_A_37489910	NC_021160.1	Ca_Kabuli_Chr01	37489910	AA	GG	GG	INTERGENIC		
SNP_5063_A_37489981	NC_021160.1	Ca_Kabuli_Chr01	37489981	TT	CC	CC	INTERGENIC		
SNP_5064_A_37490042	NC_021160.1	Ca_Kabuli_Chr01	37490042	AA	TT	TT	INTERGENIC		
SNP_5066_A_37506284	NC_021160.1	Ca_Kabuli_Chr01	37506284	AA	CC	CC	INTERGENIC		
SNP_5067_A_37506703	NC_021160.1	Ca_Kabuli_Chr01	37506703	TT	AA	AA	INTERGENIC		
SNP_5068_A_37506708	NC_021160.1	Ca_Kabuli_Chr01	37506708	CC	AA	AA	INTERGENIC		
SNP_5069_A_37506715	NC_021160.1	Ca_Kabuli_Chr01	37506715	TT	GG	GG	INTERGENIC		
SNP_5070_A_37507986	NC_021160.1	Ca_Kabuli_Chr01	37507986	TT	CC	CC	INTERGENIC		
SNP_5072_A_37517211	NC_021160.1	Ca_Kabuli_Chr01	37517211	AA	GG	GG	INTERGENIC		
SNP_5073_A_37584848	NC_021160.1	Ca_Kabuli_Chr01	37584848	CC	TT	TT	INTERGENIC		
SNP_5074_A_37634076	NC_021160.1	Ca_Kabuli_Chr01	37634076	AA	GG	GG	DRR	101410575	transfer RNA alanine (anticodon AGC)
SNP_5075_A_37634077	NC_021160.1	Ca_Kabuli_Chr01	37634077	AA	CC	CC	DRR	101410575	transfer RNA alanine (anticodon AGC)
SNP_5076_A_37646989	NC_021160.1	Ca_Kabuli_Chr01	37646989	CC	GG	GG	INTRON	101506901	succinate-semialdehyde dehydrogenase, mitochondrial
SNP_5077_A_37696015	NC_021160.1	Ca_Kabuli_Chr01	37696015	CC	TT	TT	INTERGENIC		
SNP_5078_A_37698045	NC_021160.1	Ca_Kabuli_Chr01	37698045	AA	GG	GG	INTERGENIC		
SNP_5079_A_37698053	NC_021160.1	Ca_Kabuli_Chr01	37698053	TT	AA	AA	INTERGENIC		
SNP_5080_A_37703235	NC_021160.1	Ca_Kabuli_Chr01	37703235	CC	AA	AA	INTERGENIC		
SNP_5081_A_37704970	NC_021160.1	Ca_Kabuli_Chr01	37704970	AA	GG	GG	INTERGENIC		
SNP_5083_A_37716462	NC_021160.1	Ca_Kabuli_Chr01	37716462	CC	TT	TT	INTERGENIC		
SNP_5084_A_37717256	NC_021160.1	Ca_Kabuli_Chr01	37717256	CC	TT	TT	INTERGENIC		
SNP_5085_A_37717264	NC_021160.1	Ca_Kabuli_Chr01	37717264	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5086_A_37720826	NC_021160.1	Ca_Kabuli_Chr01	37720826	CC	TT	TT	INTERGENIC		
SNP_5087_A_37721336	NC_021160.1	Ca_Kabuli_Chr01	37721336	CC	TT	TT	DRR	101508083	uncharacterized LOC101508083
SNP_5088_A_37724912	NC_021160.1	Ca_Kabuli_Chr01	37724912	AA	CC	CC	INTRON	101508083	uncharacterized LOC101508083
SNP_5090_A_37732701	NC_021160.1	Ca_Kabuli_Chr01	37732701	TT	CC	CC	INTERGENIC		
SNP_5091_A_37744228	NC_021160.1	Ca_Kabuli_Chr01	37744228	TT	CC	CC	URR	101510526	uncharacterized LOC101510526
SNP_5092_A_37745428	NC_021160.1	Ca_Kabuli_Chr01	37745428	TT	CC	CC	INTERGENIC		
SNP_5093_A_37747823	NC_021160.1	Ca_Kabuli_Chr01	37747823	AA	TT	TT	INTERGENIC		
SNP_5094_A_37756131	NC_021160.1	Ca_Kabuli_Chr01	37756131	GG	AA	AA	INTERGENIC		
SNP_5095_A_37756135	NC_021160.1	Ca_Kabuli_Chr01	37756135	GG	AA	AA	INTERGENIC		
SNP_5096_A_37758328	NC_021160.1	Ca_Kabuli_Chr01	37758328	AA	GG	GG	INTERGENIC		
SNP_5097_A_37758363	NC_021160.1	Ca_Kabuli_Chr01	37758363	CC	TT	TT	INTERGENIC		
SNP_5098_A_37758384	NC_021160.1	Ca_Kabuli_Chr01	37758384	TT	CC	CC	INTERGENIC		
SNP_5099_A_37758465	NC_021160.1	Ca_Kabuli_Chr01	37758465	TT	AA	AA	INTERGENIC		
SNP_5101_A_37767248	NC_021160.1	Ca_Kabuli_Chr01	37767248	TT	CC	CC	URR	101508397	transcription factor MYB86
SNP_5102_A_37767291	NC_021160.1	Ca_Kabuli_Chr01	37767291	TT	CC	CC	URR	101508397	transcription factor MYB86
SNP_5103_A_37769324	NC_021160.1	Ca_Kabuli_Chr01	37769324	GG	TT	TT	INTERGENIC		
SNP_5105_A_37775083	NC_021160.1	Ca_Kabuli_Chr01	37775083	CC	GG	GG	INTERGENIC		
SNP_5106_A_37776114	NC_021160.1	Ca_Kabuli_Chr01	37776114	TT	AA	AA	INTERGENIC		
SNP_5107_A_37776647	NC_021160.1	Ca_Kabuli_Chr01	37776647	GG	AA	AA	INTERGENIC		
SNP_5108_A_37776653	NC_021160.1	Ca_Kabuli_Chr01	37776653	TT	GG	GG	INTERGENIC		
SNP_5109_A_37777024	NC_021160.1	Ca_Kabuli_Chr01	37777024	TT	GG	GG	INTERGENIC		
SNP_5110_A_37780926	NC_021160.1	Ca_Kabuli_Chr01	37780926	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5111_A_37780945	NC_021160.1	Ca_Kabuli_Chr01	37780945	AA	CC	CC	INTERGENIC		
SNP_5112_A_37783960	NC_021160.1	Ca_Kabuli_Chr01	37783960	CC	AA	AA	INTERGENIC		
SNP_5113_A_37785413	NC_021160.1	Ca_Kabuli_Chr01	37785413	TT	CC	CC	INTERGENIC		
SNP_5114_A_37796034	NC_021160.1	Ca_Kabuli_Chr01	37796034	GG	TT	TT	INTRON	101508708	NAC domain-containing protein 45
SNP_5115_A_37797935	NC_021160.1	Ca_Kabuli_Chr01	37797935	AA	GG	GG	INTRON	101508708	NAC domain-containing protein 45
SNP_5116_A_37797980	NC_021160.1	Ca_Kabuli_Chr01	37797980	AA	TT	TT	INTRON	101508708	NAC domain-containing protein 45
SNP_5117_A_37801510	NC_021160.1	Ca_Kabuli_Chr01	37801510	CC	TT	TT	URR	101508708	NAC domain-containing protein 45
SNP_5118_A_37801976	NC_021160.1	Ca_Kabuli_Chr01	37801976	AA	GG	GG	INTERGENIC		
SNP_5119_A_37802015	NC_021160.1	Ca_Kabuli_Chr01	37802015	CC	TT	TT	INTERGENIC		
SNP_5120_A_37802365	NC_021160.1	Ca_Kabuli_Chr01	37802365	CC	TT	TT	INTERGENIC		
SNP_5121_A_37803304	NC_021160.1	Ca_Kabuli_Chr01	37803304	AA	GG	GG	INTERGENIC		
SNP_5122_A_37806382	NC_021160.1	Ca_Kabuli_Chr01	37806382	AA	GG	GG	INTERGENIC		
SNP_5123_A_37807014	NC_021160.1	Ca_Kabuli_Chr01	37807014	CC	AA	AA	INTERGENIC		
SNP_5124_A_37808998	NC_021160.1	Ca_Kabuli_Chr01	37808998	AA	GG	GG	INTERGENIC		
SNP_5125_A_37809205	NC_021160.1	Ca_Kabuli_Chr01	37809205	TT	CC	CC	INTERGENIC		
SNP_5126_A_37809246	NC_021160.1	Ca_Kabuli_Chr01	37809246	GG	TT	TT	INTERGENIC		
SNP_5128_A_37811840	NC_021160.1	Ca_Kabuli_Chr01	37811840	TT	AA	AA	INTERGENIC		
SNP_5129_A_37812349	NC_021160.1	Ca_Kabuli_Chr01	37812349	CC	TT	TT	INTERGENIC		
SNP_5130_A_37829414	NC_021160.1	Ca_Kabuli_Chr01	37829414	TT	CC	CC	SYNONYMOUS_CODING	101510851	Unknown function
SNP_5131_A_37831145	NC_021160.1	Ca_Kabuli_Chr01	37831145	GG	AA	AA	URR	101510851	Unknown function
SNP_5132_A_37838783	NC_021160.1	Ca_Kabuli_Chr01	37838783	TT	CC	CC	URR	101509024	uncharacterized LOC101509024
SNP_5134_A_37846331	NC_021160.1	Ca_Kabuli_Chr01	37846331	GG	TT	TT	INTRON	101509230	E3 ubiquitin-protein ligase RGLG2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5135_A_37848333	NC_021160.1	Ca_Kabuli_Chr01	37848333	TT	CC	CC	INTRON		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5136_A_37848361	NC_021160.1	Ca_Kabuli_Chr01	37848361	TT	CC	CC	INTRON		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5137_A_37848751	NC_021160.1	Ca_Kabuli_Chr01	37848751	GG	TT	TT	INTRON		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5138_A_37848789	NC_021160.1	Ca_Kabuli_Chr01	37848789	GG	TT	TT	INTRON		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5139_A_37849018	NC_021160.1	Ca_Kabuli_Chr01	37849018	GG	AA	AA	INTRON		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5141_A_37852804	NC_021160.1	Ca_Kabuli_Chr01	37852804	AA	CC	CC	URR		101509230	E3 ubiquitin-protein ligase RGLG2-like
SNP_5142_A_37854840	NC_021160.1	Ca_Kabuli_Chr01	37854840	AA	CC	CC	INTERGENIC			
SNP_5143_A_37855517	NC_021160.1	Ca_Kabuli_Chr01	37855517	GG	AA	AA	INTERGENIC			
SNP_5144_A_37856459	NC_021160.1	Ca_Kabuli_Chr01	37856459	TT	AA	AA	INTERGENIC			
SNP_5145_A_37864258	NC_021160.1	Ca_Kabuli_Chr01	37864258	GG	AA	AA	INTRON		SBNO1	Unknown function
SNP_5146_A_37864344	NC_021160.1	Ca_Kabuli_Chr01	37864344	GG	TT	TT	INTRON		SBNO1	Unknown function
SNP_5147_A_37864364	NC_021160.1	Ca_Kabuli_Chr01	37864364	AA	CC	CC	INTRON		SBNO1	Unknown function
SNP_5148_A_37868745	NC_021160.1	Ca_Kabuli_Chr01	37868745	TT	GG	GG	INTRON		SBNO1	Unknown function
SNP_5149_A_37868922	NC_021160.1	Ca_Kabuli_Chr01	37868922	TT	GG	GG	INTRON		SBNO1	Unknown function
SNP_5150_A_37869694	NC_021160.1	Ca_Kabuli_Chr01	37869694	AA	GG	GG	INTRON		SBNO1	Unknown function
SNP_5151_A_37869723	NC_021160.1	Ca_Kabuli_Chr01	37869723	CC	TT	TT	INTRON		SBNO1	Unknown function
SNP_5152_A_37879061	NC_021160.1	Ca_Kabuli_Chr01	37879061	CC	AA	AA	INTRON		SBNO1	Unknown function
SNP_5153_A_37880440	NC_021160.1	Ca_Kabuli_Chr01	37880440	GG	AA	AA	INTRON		SBNO1	Unknown function
SNP_5154_A_37885843	NC_021160.1	Ca_Kabuli_Chr01	37885843	CC	TT	TT	INTRON		SBNO1	Unknown function
SNP_5155_A_37901776	NC_021160.1	Ca_Kabuli_Chr01	37901776	GG	AA	AA	URR		101509874	protein strawberry notch homolog 1
SNP_5156_A_37911895	NC_021160.1	Ca_Kabuli_Chr01	37911895	TT	AA	AA	INTERGENIC			
SNP_5157_A_37913600	NC_021160.1	Ca_Kabuli_Chr01	37913600	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5158_A_37913690	NC_021160.1	Ca_Kabuli_Chr01	37913690	AA	CC	CC	INTERGENIC			
SNP_5160_A_37917411	NC_021160.1	Ca_Kabuli_Chr01	37917411	GG	AA	AA	INTERGENIC			
SNP_5161_A_37917571	NC_021160.1	Ca_Kabuli_Chr01	37917571	GG	AA	AA	INTERGENIC			
SNP_5162_A_37917767	NC_021160.1	Ca_Kabuli_Chr01	37917767	AA	TT	TT	INTERGENIC			
SNP_5163_A_37917770	NC_021160.1	Ca_Kabuli_Chr01	37917770	AA	GG	GG	INTERGENIC			
SNP_5164_A_37917886	NC_021160.1	Ca_Kabuli_Chr01	37917886	AA	TT	TT	INTERGENIC			
SNP_5165_A_37917962	NC_021160.1	Ca_Kabuli_Chr01	37917962	GG	CC	CC	INTERGENIC			
SNP_5167_A_37918086	NC_021160.1	Ca_Kabuli_Chr01	37918086	TT	CC	CC	INTERGENIC			
SNP_5168_A_37918173	NC_021160.1	Ca_Kabuli_Chr01	37918173	AA	CC	CC	INTERGENIC			
SNP_5169_A_37918296	NC_021160.1	Ca_Kabuli_Chr01	37918296	CC	TT	TT	INTERGENIC			
SNP_5170_A_37918364	NC_021160.1	Ca_Kabuli_Chr01	37918364	GG	AA	AA	INTERGENIC			
SNP_5171_A_37921380	NC_021160.1	Ca_Kabuli_Chr01	37921380	TT	CC	CC	INTERGENIC			
SNP_5172_A_37925953	NC_021160.1	Ca_Kabuli_Chr01	37925953	AA	GG	GG	INTERGENIC			
SNP_5173_A_37925988	NC_021160.1	Ca_Kabuli_Chr01	37925988	TT	CC	CC	INTERGENIC			
SNP_5174_A_37926211	NC_021160.1	Ca_Kabuli_Chr01	37926211	AA	CC	CC	INTERGENIC			
SNP_5175_A_37926526	NC_021160.1	Ca_Kabuli_Chr01	37926526	CC	GG	GG	INTERGENIC			
SNP_5176_A_37926983	NC_021160.1	Ca_Kabuli_Chr01	37926983	CC	GG	GG	INTERGENIC			
SNP_5177_A_37927055	NC_021160.1	Ca_Kabuli_Chr01	37927055	GG	AA	AA	INTERGENIC			
SNP_5178_A_37927127	NC_021160.1	Ca_Kabuli_Chr01	37927127	TT	CC	CC	INTERGENIC			
SNP_5179_A_37927207	NC_021160.1	Ca_Kabuli_Chr01	37927207	GG	AA	AA	INTERGENIC			
SNP_5180_A_37927227	NC_021160.1	Ca_Kabuli_Chr01	37927227	GG	AA	AA	INTERGENIC			
SNP_5181_A_37927230	NC_021160.1	Ca_Kabuli_Chr01	37927230	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5182_A_37927234	NC_021160.1	Ca_Kabuli_Chr01	37927234	AA	GG	GG	INTERGENIC			
SNP_5183_A_37927235	NC_021160.1	Ca_Kabuli_Chr01	37927235	AA	GG	GG	INTERGENIC			
SNP_5184_A_37927252	NC_021160.1	Ca_Kabuli_Chr01	37927252	TT	CC	CC	INTERGENIC			
SNP_5185_A_37927306	NC_021160.1	Ca_Kabuli_Chr01	37927306	CC	GG	GG	INTERGENIC			
SNP_5187_A_37927384	NC_021160.1	Ca_Kabuli_Chr01	37927384	GG	CC	CC	INTERGENIC			
SNP_5188_A_37927393	NC_021160.1	Ca_Kabuli_Chr01	37927393	TT	AA	AA	INTERGENIC			
SNP_5189_A_37927577	NC_021160.1	Ca_Kabuli_Chr01	37927577	CC	GG	GG	INTERGENIC			
SNP_5190_A_37927609	NC_021160.1	Ca_Kabuli_Chr01	37927609	CC	GG	GG	INTERGENIC			
SNP_5191_A_37927658	NC_021160.1	Ca_Kabuli_Chr01	37927658	TT	AA	AA	INTERGENIC			
SNP_5192_A_37927679	NC_021160.1	Ca_Kabuli_Chr01	37927679	TT	CC	CC	INTERGENIC			
SNP_5193_A_37927711	NC_021160.1	Ca_Kabuli_Chr01	37927711	TT	AA	AA	INTERGENIC			
SNP_5194_A_37927731	NC_021160.1	Ca_Kabuli_Chr01	37927731	AA	CC	CC	INTERGENIC			
SNP_5195_A_37927772	NC_021160.1	Ca_Kabuli_Chr01	37927772	AA	GG	GG	INTERGENIC			
SNP_5196_A_37927801	NC_021160.1	Ca_Kabuli_Chr01	37927801	AA	GG	GG	INTERGENIC			
SNP_5197_A_37927829	NC_021160.1	Ca_Kabuli_Chr01	37927829	AA	TT	TT	INTERGENIC			
SNP_5199_A_37928063	NC_021160.1	Ca_Kabuli_Chr01	37928063	TT	GG	GG	INTERGENIC			
SNP_5200_A_37928138	NC_021160.1	Ca_Kabuli_Chr01	37928138	CC	TT	TT	INTERGENIC			
SNP_5201_A_37928144	NC_021160.1	Ca_Kabuli_Chr01	37928144	CC	TT	TT	INTERGENIC			
SNP_5202_A_37928164	NC_021160.1	Ca_Kabuli_Chr01	37928164	AA	TT	TT	INTERGENIC			
SNP_5203_A_37928246	NC_021160.1	Ca_Kabuli_Chr01	37928246	TT	GG	GG	INTERGENIC			
SNP_5204_A_37928262	NC_021160.1	Ca_Kabuli_Chr01	37928262	AA	GG	GG	INTERGENIC			
SNP_5205_A_37928384	NC_021160.1	Ca_Kabuli_Chr01	37928384	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5206_A_37928398	NC_021160.1	Ca_Kabuli_Chr01	37928398	AA	GG	GG	INTERGENIC			
SNP_5207_A_37928560	NC_021160.1	Ca_Kabuli_Chr01	37928560	TT	GG	GG	INTERGENIC			
SNP_5208_A_37928576	NC_021160.1	Ca_Kabuli_Chr01	37928576	AA	GG	GG	INTERGENIC			
SNP_5209_A_37928617	NC_021160.1	Ca_Kabuli_Chr01	37928617	CC	AA	AA	INTERGENIC			
SNP_5210_A_37928712	NC_021160.1	Ca_Kabuli_Chr01	37928712	AA	GG	GG	INTERGENIC			
SNP_5211_A_37928849	NC_021160.1	Ca_Kabuli_Chr01	37928849	TT	CC	CC	INTERGENIC			
SNP_5213_A_37928887	NC_021160.1	Ca_Kabuli_Chr01	37928887	CC	TT	TT	INTERGENIC			
SNP_5214_A_37928919	NC_021160.1	Ca_Kabuli_Chr01	37928919	AA	CC	CC	INTERGENIC			
SNP_5215_A_37929028	NC_021160.1	Ca_Kabuli_Chr01	37929028	GG	TT	TT	INTERGENIC			
SNP_5216_A_37929139	NC_021160.1	Ca_Kabuli_Chr01	37929139	TT	AA	AA	INTERGENIC			
SNP_5217_A_37929152	NC_021160.1	Ca_Kabuli_Chr01	37929152	CC	GG	GG	INTERGENIC			
SNP_5218_A_37929215	NC_021160.1	Ca_Kabuli_Chr01	37929215	CC	TT	TT	INTERGENIC			
SNP_5219_A_37929221	NC_021160.1	Ca_Kabuli_Chr01	37929221	CC	GG	GG	INTERGENIC			
SNP_5220_A_37929247	NC_021160.1	Ca_Kabuli_Chr01	37929247	GG	TT	TT	INTERGENIC			
SNP_5221_A_37929322	NC_021160.1	Ca_Kabuli_Chr01	37929322	GG	TT	TT	INTERGENIC			
SNP_5222_A_37929621	NC_021160.1	Ca_Kabuli_Chr01	37929621	CC	AA	AA	INTERGENIC			
SNP_5223_A_37929639	NC_021160.1	Ca_Kabuli_Chr01	37929639	CC	GG	GG	INTERGENIC			
SNP_5225_A_37929865	NC_021160.1	Ca_Kabuli_Chr01	37929865	TT	CC	CC	INTERGENIC			
SNP_5226_A_37929884	NC_021160.1	Ca_Kabuli_Chr01	37929884	GG	AA	AA	INTERGENIC			
SNP_5227_A_37929913	NC_021160.1	Ca_Kabuli_Chr01	37929913	AA	TT	TT	INTERGENIC			
SNP_5228_A_37930064	NC_021160.1	Ca_Kabuli_Chr01	37930064	CC	AA	AA	INTERGENIC			
SNP_5229_A_37930199	NC_021160.1	Ca_Kabuli_Chr01	37930199	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5230_A_37930205	NC_021160.1	Ca_Kabuli_Chr01	37930205	CC	TT	TT	INTERGENIC		
SNP_5231_A_37936129	NC_021160.1	Ca_Kabuli_Chr01	37936129	GG	TT	TT	INTERGENIC		
SNP_5232_A_37948651	NC_021160.1	Ca_Kabuli_Chr01	37948651	AA	TT	TT	INTERGENIC		
SNP_5233_A_37953737	NC_021160.1	Ca_Kabuli_Chr01	37953737	CC	TT	TT	INTERGENIC		
SNP_5234_A_37954400	NC_021160.1	Ca_Kabuli_Chr01	37954400	CC	TT	TT	INTERGENIC		
SNP_5235_A_37954519	NC_021160.1	Ca_Kabuli_Chr01	37954519	TT	AA	AA	INTERGENIC		
SNP_5236_A_37954566	NC_021160.1	Ca_Kabuli_Chr01	37954566	CC	TT	TT	INTERGENIC		
SNP_5237_A_37954586	NC_021160.1	Ca_Kabuli_Chr01	37954586	AA	GG	GG	INTERGENIC		
SNP_5238_A_37993340	NC_021160.1	Ca_Kabuli_Chr01	37993340	GG	AA	AA	INTERGENIC		
SNP_5239_A_37993382	NC_021160.1	Ca_Kabuli_Chr01	37993382	CC	TT	TT	INTERGENIC		
SNP_5240_A_37993407	NC_021160.1	Ca_Kabuli_Chr01	37993407	AA	GG	GG	INTERGENIC		
SNP_5241_A_37993447	NC_021160.1	Ca_Kabuli_Chr01	37993447	CC	TT	TT	INTERGENIC		
SNP_5243_A_37993864	NC_021160.1	Ca_Kabuli_Chr01	37993864	AA	CC	CC	INTERGENIC		
SNP_5244_A_38022106	NC_021160.1	Ca_Kabuli_Chr01	38022106	AA	GG	GG	INTRON	101514834	Unknown function
SNP_5245_A_38022128	NC_021160.1	Ca_Kabuli_Chr01	38022128	AA	GG	GG	INTRON	101514834	Unknown function
SNP_5246_A_38022160	NC_021160.1	Ca_Kabuli_Chr01	38022160	GG	AA	AA	INTRON	101514834	Unknown function
SNP_5247_A_38022172	NC_021160.1	Ca_Kabuli_Chr01	38022172	GG	AA	AA	INTRON	101514834	Unknown function
SNP_5248_A_38022212	NC_021160.1	Ca_Kabuli_Chr01	38022212	GG	AA	AA	INTRON	101514834	Unknown function
SNP_5249_A_38022324	NC_021160.1	Ca_Kabuli_Chr01	38022324	AA	GG	GG	INTRON	101514834	Unknown function
SNP_5250_A_38022500	NC_021160.1	Ca_Kabuli_Chr01	38022500	CC	TT	TT	SYNONYMOUS_CODING	101514834	Unknown function
SNP_5251_A_38022517	NC_021160.1	Ca_Kabuli_Chr01	38022517	CC	TT	TT	SYNONYMOUS_CODING	101514834	Unknown function
SNP_5252_A_38022519	NC_021160.1	Ca_Kabuli_Chr01	38022519	GG	AA	AA	NON_SYNONYMOUS_CODING	101514834	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5253_A_38022535	NC_021160.1	Ca_Kabuli_Chr01	38022535	GG	TT	TT	NON_SYNONYMOUS_CODING	101514834	Unknown function
SNP_5254_A_38022536	NC_021160.1	Ca_Kabuli_Chr01	38022536	CC	GG	GG	NON_SYNONYMOUS_CODING	101514834	Unknown function
SNP_5255_A_38022542	NC_021160.1	Ca_Kabuli_Chr01	38022542	CC	AA	AA	NON_SYNONYMOUS_CODING	101514834	Unknown function
SNP_5256_A_38022554	NC_021160.1	Ca_Kabuli_Chr01	38022554	CC	TT	TT	SYNONYMOUS_CODING	101514834	Unknown function
SNP_5257_A_38023332	NC_021160.1	Ca_Kabuli_Chr01	38023332	GG	TT	TT	URR	101514834	Unknown function
SNP_5258_A_38023677	NC_021160.1	Ca_Kabuli_Chr01	38023677	CC	TT	TT	URR	101514834	Unknown function
SNP_5259_A_38024863	NC_021160.1	Ca_Kabuli_Chr01	38024863	AA	GG	GG	INTERGENIC		
SNP_5261_A_38024954	NC_021160.1	Ca_Kabuli_Chr01	38024954	GG	AA	AA	INTERGENIC		
SNP_5263_A_38060296	NC_021160.1	Ca_Kabuli_Chr01	38060296	CC	TT	TT	INTERGENIC		
SNP_5264_A_38060299	NC_021160.1	Ca_Kabuli_Chr01	38060299	CC	TT	TT	INTERGENIC		
SNP_5266_A_38065005	NC_021160.1	Ca_Kabuli_Chr01	38065005	GG	AA	AA	INTERGENIC		
SNP_5267_A_38065284	NC_021160.1	Ca_Kabuli_Chr01	38065284	TT	CC	CC	DRR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5268_A_38065291	NC_021160.1	Ca_Kabuli_Chr01	38065291	GG	TT	TT	DRR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5269_A_38066127	NC_021160.1	Ca_Kabuli_Chr01	38066127	CC	GG	GG	DRR	101410555	transfer RNA isoleucine (anticodon AAU)
SNP_5270_A_38066224	NC_021160.1	Ca_Kabuli_Chr01	38066224	GG	AA	AA	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5271_A_38066629	NC_021160.1	Ca_Kabuli_Chr01	38066629	TT	GG	GG	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5272_A_38066745	NC_021160.1	Ca_Kabuli_Chr01	38066745	TT	CC	CC	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5273_A_38067082	NC_021160.1	Ca_Kabuli_Chr01	38067082	GG	AA	AA	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5274_A_38067092	NC_021160.1	Ca_Kabuli_Chr01	38067092	AA	GG	GG	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5275_A_38067177	NC_021160.1	Ca_Kabuli_Chr01	38067177	AA	TT	TT	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5276_A_38067288	NC_021160.1	Ca_Kabuli_Chr01	38067288	AA	CC	CC	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_5277_A_38067743	NC_021160.1	Ca_Kabuli_Chr01	38067743	GG	AA	AA	URR	101410590	transfer RNA aspartic acid (anticodon GUC)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5278_A_38069516	NC_021160.1	Ca_Kabuli_Chr01	38069516	GG	AA	AA	INTERGENIC			
SNP_5279_A_38069719	NC_021160.1	Ca_Kabuli_Chr01	38069719	GG	TT	TT	INTERGENIC			
SNP_5280_A_38069896	NC_021160.1	Ca_Kabuli_Chr01	38069896	CC	TT	TT	INTERGENIC			
SNP_5281_A_38069917	NC_021160.1	Ca_Kabuli_Chr01	38069917	AA	GG	GG	INTERGENIC			
SNP_5282_A_38070062	NC_021160.1	Ca_Kabuli_Chr01	38070062	AA	TT	TT	INTERGENIC			
SNP_5283_A_38070565	NC_021160.1	Ca_Kabuli_Chr01	38070565	TT	CC	CC	INTERGENIC			
SNP_5284_A_38070572	NC_021160.1	Ca_Kabuli_Chr01	38070572	CC	GG	GG	INTERGENIC			
SNP_5285_A_38070584	NC_021160.1	Ca_Kabuli_Chr01	38070584	TT	GG	GG	INTERGENIC			
SNP_5287_A_38070843	NC_021160.1	Ca_Kabuli_Chr01	38070843	TT	CC	CC	INTERGENIC			
SNP_5289_A_38071457	NC_021160.1	Ca_Kabuli_Chr01	38071457	CC	TT	TT	INTERGENIC			
SNP_5291_A_38071652	NC_021160.1	Ca_Kabuli_Chr01	38071652	TT	CC	CC	INTERGENIC			
SNP_5292_A_38087711	NC_021160.1	Ca_Kabuli_Chr01	38087711	GG	AA	AA	INTERGENIC			
SNP_5293_A_38087733	NC_021160.1	Ca_Kabuli_Chr01	38087733	GG	AA	AA	INTERGENIC			
SNP_5294_A_38087796	NC_021160.1	Ca_Kabuli_Chr01	38087796	TT	AA	AA	INTERGENIC			
SNP_5295_A_38089084	NC_021160.1	Ca_Kabuli_Chr01	38089084	AA	GG	GG	INTERGENIC			
SNP_5296_A_38089659	NC_021160.1	Ca_Kabuli_Chr01	38089659	AA	GG	GG	INTERGENIC			
SNP_5297_A_38104193	NC_021160.1	Ca_Kabuli_Chr01	38104193	CC	TT	TT	INTERGENIC			
SNP_5298_A_38108575	NC_021160.1	Ca_Kabuli_Chr01	38108575	GG	AA	AA	INTERGENIC			
SNP_5299_A_38108589	NC_021160.1	Ca_Kabuli_Chr01	38108589	GG	AA	AA	INTERGENIC			
SNP_5300_A_38108641	NC_021160.1	Ca_Kabuli_Chr01	38108641	AA	GG	GG	INTERGENIC			
SNP_5301_A_38110722	NC_021160.1	Ca_Kabuli_Chr01	38110722	GG	AA	AA	INTERGENIC			
SNP_5302_A_38110736	NC_021160.1	Ca_Kabuli_Chr01	38110736	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5304_A_38113610	NC_021160.1	Ca_Kabuli_Chr01	38113610	CC	GG	GG	INTERGENIC		
SNP_5305_A_38114895	NC_021160.1	Ca_Kabuli_Chr01	38114895	TT	CC	CC	INTERGENIC		
SNP_5306_A_38126227	NC_021160.1	Ca_Kabuli_Chr01	38126227	TT	CC	CC	INTERGENIC		
SNP_5307_A_38127001	NC_021160.1	Ca_Kabuli_Chr01	38127001	TT	CC	CC	DRR	101504214	endochitinase A-like
SNP_5308_A_38127610	NC_021160.1	Ca_Kabuli_Chr01	38127610	AA	GG	GG	NON_SYNONYMOUS_CODING	101504214	endochitinase A-like
SNP_5310_A_38131615	NC_021160.1	Ca_Kabuli_Chr01	38131615	TT	AA	AA	INTERGENIC		
SNP_5311_A_38134270	NC_021160.1	Ca_Kabuli_Chr01	38134270	AA	GG	GG	INTERGENIC		
SNP_5312_A_38139744	NC_021160.1	Ca_Kabuli_Chr01	38139744	AA	GG	GG	INTERGENIC		
SNP_5313_A_38142218	NC_021160.1	Ca_Kabuli_Chr01	38142218	CC	TT	TT	INTERGENIC		
SNP_5314_A_38143625	NC_021160.1	Ca_Kabuli_Chr01	38143625	TT	CC	CC	INTERGENIC		
SNP_5315_A_38143897	NC_021160.1	Ca_Kabuli_Chr01	38143897	TT	CC	CC	INTERGENIC		
SNP_5316_A_38145006	NC_021160.1	Ca_Kabuli_Chr01	38145006	AA	GG	GG	INTERGENIC		
SNP_5317_A_38148421	NC_021160.1	Ca_Kabuli_Chr01	38148421	CC	TT	TT	INTERGENIC		
SNP_5318_A_38150454	NC_021160.1	Ca_Kabuli_Chr01	38150454	GG	AA	AA	INTERGENIC		
SNP_5319_A_38150496	NC_021160.1	Ca_Kabuli_Chr01	38150496	AA	TT	TT	INTERGENIC		
SNP_5320_A_38150525	NC_021160.1	Ca_Kabuli_Chr01	38150525	AA	CC	CC	INTERGENIC		
SNP_5321_A_38180103	NC_021160.1	Ca_Kabuli_Chr01	38180103	AA	TT	TT	INTERGENIC		
SNP_5322_A_38180783	NC_021160.1	Ca_Kabuli_Chr01	38180783	AA	CC	CC	INTERGENIC		
SNP_5323_A_38181987	NC_021160.1	Ca_Kabuli_Chr01	38181987	AA	TT	TT	INTERGENIC		
SNP_5324_A_38182506	NC_021160.1	Ca_Kabuli_Chr01	38182506	TT	AA	AA	INTERGENIC		
SNP_5325_A_38183215	NC_021160.1	Ca_Kabuli_Chr01	38183215	GG	TT	TT	INTERGENIC		
SNP_5326_A_38183238	NC_021160.1	Ca_Kabuli_Chr01	38183238	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5327_A_38187713	NC_021160.1	Ca_Kabuli_Chr01	38187713	TT	CC	CC	INTERGENIC		
SNP_5328_A_38188804	NC_021160.1	Ca_Kabuli_Chr01	38188804	TT	CC	CC	INTERGENIC		
SNP_5329_A_38192727	NC_021160.1	Ca_Kabuli_Chr01	38192727	GG	AA	AA	INTERGENIC		
SNP_5331_A_38198450	NC_021160.1	Ca_Kabuli_Chr01	38198450	AA	GG	GG	URR	101504550	apoptosis-enhancing nuclease-like
SNP_5332_A_38217297	NC_021160.1	Ca_Kabuli_Chr01	38217297	TT	CC	CC	SYNONYMOUS_CODING	101488359	cyclic pyranopterin monophosphate synthase, mitochondrial
SNP_5333_A_38226440	NC_021160.1	Ca_Kabuli_Chr01	38226440	AA	GG	GG	URR	101488683	VQ motif-containing protein 25-like
SNP_5334_A_38227463	NC_021160.1	Ca_Kabuli_Chr01	38227463	CC	GG	GG	INTERGENIC		
SNP_5335_A_38228696	NC_021160.1	Ca_Kabuli_Chr01	38228696	GG	CC	CC	INTERGENIC		
SNP_5336_A_38228698	NC_021160.1	Ca_Kabuli_Chr01	38228698	TT	GG	GG	INTERGENIC		
SNP_5337_A_38228986	NC_021160.1	Ca_Kabuli_Chr01	38228986	TT	AA	AA	INTERGENIC		
SNP_5338_A_38229007	NC_021160.1	Ca_Kabuli_Chr01	38229007	AA	CC	CC	INTERGENIC		
SNP_5339_A_38233851	NC_021160.1	Ca_Kabuli_Chr01	38233851	GG	AA	AA	INTERGENIC		
SNP_5340_A_38242219	NC_021160.1	Ca_Kabuli_Chr01	38242219	CC	TT	TT	INTERGENIC		
SNP_5341_A_38246933	NC_021160.1	Ca_Kabuli_Chr01	38246933	AA	GG	GG	INTERGENIC		
SNP_5342_A_38249451	NC_021160.1	Ca_Kabuli_Chr01	38249451	TT	CC	CC	INTERGENIC		
SNP_5343_A_38250749	NC_021160.1	Ca_Kabuli_Chr01	38250749	CC	AA	AA	INTERGENIC		
SNP_5344_A_38251077	NC_021160.1	Ca_Kabuli_Chr01	38251077	GG	TT	TT	INTERGENIC		
SNP_5345_A_38252809	NC_021160.1	Ca_Kabuli_Chr01	38252809	GG	AA	AA	INTERGENIC		
SNP_5346_A_38262450	NC_021160.1	Ca_Kabuli_Chr01	38262450	TT	CC	CC	INTERGENIC		
SNP_5347_A_38267328	NC_021160.1	Ca_Kabuli_Chr01	38267328	AA	GG	GG	URR	101489021	uncharacterized LOC101489021
SNP_5349_A_38274278	NC_021160.1	Ca_Kabuli_Chr01	38274278	AA	TT	TT	URR	101489349	E3 ubiquitin-protein ligase RING1-like
SNP_5350_A_38274292	NC_021160.1	Ca_Kabuli_Chr01	38274292	TT	GG	GG	URR	101489349	E3 ubiquitin-protein ligase RING1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5351_A_38277904	NC_021160.1	Ca_Kabuli_Chr01	38277904	AA	CC	CC	INTERGENIC		
SNP_5352_A_38279468	NC_021160.1	Ca_Kabuli_Chr01	38279468	TT	GG	GG	DRR	101489676	cell division control protein 48 homolog C-like
SNP_5354_A_38284286	NC_021160.1	Ca_Kabuli_Chr01	38284286	TT	CC	CC	INTERGENIC		
SNP_5355_A_38284373	NC_021160.1	Ca_Kabuli_Chr01	38284373	GG	TT	TT	INTERGENIC		
SNP_5356_A_38284375	NC_021160.1	Ca_Kabuli_Chr01	38284375	GG	AA	AA	INTERGENIC		
SNP_5357_A_38284506	NC_021160.1	Ca_Kabuli_Chr01	38284506	AA	TT	TT	INTERGENIC		
SNP_5358_A_38338703	NC_021160.1	Ca_Kabuli_Chr01	38338703	AA	GG	GG	URR	101490214	uncharacterized LOC101490214
SNP_5359_A_38339214	NC_021160.1	Ca_Kabuli_Chr01	38339214	CC	TT	TT	URR	101490214	uncharacterized LOC101490214
SNP_5360_A_38339425	NC_021160.1	Ca_Kabuli_Chr01	38339425	GG	AA	AA	URR	101490214	uncharacterized LOC101490214
SNP_5361_A_38341429	NC_021160.1	Ca_Kabuli_Chr01	38341429	TT	GG	GG	INTERGENIC		
SNP_5362_A_38341430	NC_021160.1	Ca_Kabuli_Chr01	38341430	GG	AA	AA	INTERGENIC		
SNP_5363_A_38341720	NC_021160.1	Ca_Kabuli_Chr01	38341720	CC	TT	TT	INTERGENIC		
SNP_5364_A_38342570	NC_021160.1	Ca_Kabuli_Chr01	38342570	GG	TT	TT	INTERGENIC		
SNP_5365_A_38346054	NC_021160.1	Ca_Kabuli_Chr01	38346054	TT	GG	GG	URR	101490534	uncharacterized LOC101490534
SNP_5366_A_38346059	NC_021160.1	Ca_Kabuli_Chr01	38346059	TT	GG	GG	URR	101490534	uncharacterized LOC101490534
SNP_5367_A_38346087	NC_021160.1	Ca_Kabuli_Chr01	38346087	CC	TT	TT	URR	101490534	uncharacterized LOC101490534
SNP_5368_A_38346134	NC_021160.1	Ca_Kabuli_Chr01	38346134	CC	TT	TT	URR	101490534	uncharacterized LOC101490534
SNP_5369_A_38346178	NC_021160.1	Ca_Kabuli_Chr01	38346178	TT	CC	CC	URR	101490534	uncharacterized LOC101490534
SNP_5370_A_38346500	NC_021160.1	Ca_Kabuli_Chr01	38346500	CC	TT	TT	URR	101490534	uncharacterized LOC101490534
SNP_5371_A_38347645	NC_021160.1	Ca_Kabuli_Chr01	38347645	CC	TT	TT	URR	101490534	uncharacterized LOC101490534
SNP_5372_A_38347717	NC_021160.1	Ca_Kabuli_Chr01	38347717	AA	GG	GG	URR	101490534	uncharacterized LOC101490534
SNP_5374_A_38360381	NC_021160.1	Ca_Kabuli_Chr01	38360381	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5375_A_38360386	NC_021160.1	Ca_Kabuli_Chr01	38360386	TT	CC	CC	INTERGENIC		
SNP_5376_A_38363892	NC_021160.1	Ca_Kabuli_Chr01	38363892	GG	CC	CC	INTERGENIC		
SNP_5378_A_38363963	NC_021160.1	Ca_Kabuli_Chr01	38363963	TT	CC	CC	INTERGENIC		
SNP_5379_A_38363964	NC_021160.1	Ca_Kabuli_Chr01	38363964	CC	AA	AA	INTERGENIC		
SNP_5380_A_38363967	NC_021160.1	Ca_Kabuli_Chr01	38363967	GG	AA	AA	INTERGENIC		
SNP_5381_A_38367311	NC_021160.1	Ca_Kabuli_Chr01	38367311	GG	AA	AA	INTERGENIC		
SNP_5382_A_38395345	NC_021160.1	Ca_Kabuli_Chr01	38395345	CC	AA	AA	INTRON	101505825	Unknown function
SNP_5383_A_38395799	NC_021160.1	Ca_Kabuli_Chr01	38395799	AA	GG	GG	INTRON	101505825	Unknown function
SNP_5384_A_38426687	NC_021160.1	Ca_Kabuli_Chr01	38426687	AA	GG	GG	URR	101505825	Unknown function
SNP_5385_A_38428808	NC_021160.1	Ca_Kabuli_Chr01	38428808	TT	CC	CC	INTERGENIC		
SNP_5386_A_38437252	NC_021160.1	Ca_Kabuli_Chr01	38437252	TT	CC	CC	URR	101490858	major facilitator superfamily domain-containing protein 12-like
SNP_5387_A_38449894	NC_021160.1	Ca_Kabuli_Chr01	38449894	AA	GG	GG	INTERGENIC		
SNP_5388_A_38460160	NC_021160.1	Ca_Kabuli_Chr01	38460160	CC	TT	TT	INTERGENIC		
SNP_5389_A_38465776	NC_021160.1	Ca_Kabuli_Chr01	38465776	AA	CC	CC	INTERGENIC		
SNP_5390_A_38466106	NC_021160.1	Ca_Kabuli_Chr01	38466106	AA	TT	TT	INTERGENIC		
SNP_5395_A_38499863	NC_021160.1	Ca_Kabuli_Chr01	38499863	AA	TT	TT	INTERGENIC		
SNP_5396_A_38514033	NC_021160.1	Ca_Kabuli_Chr01	38514033	TT	CC	CC	URR	101493036	uncharacterized LOC101493036
SNP_5397_A_38520698	NC_021160.1	Ca_Kabuli_Chr01	38520698	AA	GG	GG	INTERGENIC		
SNP_5398_A_38527391	NC_021160.1	Ca_Kabuli_Chr01	38527391	AA	GG	GG	INTERGENIC		
SNP_5399_A_38529243	NC_021160.1	Ca_Kabuli_Chr01	38529243	GG	TT	TT	INTERGENIC		
SNP_5400_A_38535455	NC_021160.1	Ca_Kabuli_Chr01	38535455	GG	AA	AA	INTERGENIC		
SNP_5401_A_38535843	NC_021160.1	Ca_Kabuli_Chr01	38535843	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5402_A_38560871	NC_021160.1	Ca_Kabuli_Chr01	38560871	AA	GG	GG	NON_SYNONYMOUS_CODING	101506797	disease resistance protein RGA2-like
SNP_5403_A_38563493	NC_021160.1	Ca_Kabuli_Chr01	38563493	TT	CC	CC	URR	101506797	disease resistance protein RGA2-like
SNP_5404_A_38564217	NC_021160.1	Ca_Kabuli_Chr01	38564217	TT	CC	CC	URR	101506797	disease resistance protein RGA2-like
SNP_5405_A_38564223	NC_021160.1	Ca_Kabuli_Chr01	38564223	AA	GG	GG	URR	101506797	disease resistance protein RGA2-like
SNP_5406_A_38564224	NC_021160.1	Ca_Kabuli_Chr01	38564224	AA	GG	GG	URR	101506797	disease resistance protein RGA2-like
SNP_5407_A_38564228	NC_021160.1	Ca_Kabuli_Chr01	38564228	AA	GG	GG	URR	101506797	disease resistance protein RGA2-like
SNP_5408_A_38564933	NC_021160.1	Ca_Kabuli_Chr01	38564933	TT	CC	CC	INTERGENIC		
SNP_5409_A_38564944	NC_021160.1	Ca_Kabuli_Chr01	38564944	TT	CC	CC	INTERGENIC		
SNP_5410_A_38566207	NC_021160.1	Ca_Kabuli_Chr01	38566207	AA	GG	GG	INTERGENIC		
SNP_5411_A_38568671	NC_021160.1	Ca_Kabuli_Chr01	38568671	GG	AA	AA	INTERGENIC		
SNP_5412_A_38568677	NC_021160.1	Ca_Kabuli_Chr01	38568677	GG	CC	CC	INTERGENIC		
SNP_5413_A_38569793	NC_021160.1	Ca_Kabuli_Chr01	38569793	AA	GG	GG	INTERGENIC		
SNP_5414_A_38569850	NC_021160.1	Ca_Kabuli_Chr01	38569850	TT	CC	CC	INTERGENIC		
SNP_5415_A_38571054	NC_021160.1	Ca_Kabuli_Chr01	38571054	CC	TT	TT	INTERGENIC		
SNP_5416_A_38572557	NC_021160.1	Ca_Kabuli_Chr01	38572557	GG	AA	AA	INTERGENIC		
SNP_5417_A_38572606	NC_021160.1	Ca_Kabuli_Chr01	38572606	TT	CC	CC	INTERGENIC		
SNP_5418_A_38572635	NC_021160.1	Ca_Kabuli_Chr01	38572635	AA	GG	GG	INTERGENIC		
SNP_5419_A_38572681	NC_021160.1	Ca_Kabuli_Chr01	38572681	CC	TT	TT	INTERGENIC		
SNP_5420_A_38572828	NC_021160.1	Ca_Kabuli_Chr01	38572828	AA	GG	GG	INTERGENIC		
SNP_5421_A_38574477	NC_021160.1	Ca_Kabuli_Chr01	38574477	TT	GG	GG	INTERGENIC		
SNP_5422_A_38574810	NC_021160.1	Ca_Kabuli_Chr01	38574810	TT	GG	GG	INTERGENIC		
SNP_5423_A_38575989	NC_021160.1	Ca_Kabuli_Chr01	38575989	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5425_A_38577566	NC_021160.1	Ca_Kabuli_Chr01	38577566	AA	TT	TT	INTERGENIC			
SNP_5426_A_38577803	NC_021160.1	Ca_Kabuli_Chr01	38577803	TT	CC	CC	INTERGENIC			
SNP_5427_A_38577825	NC_021160.1	Ca_Kabuli_Chr01	38577825	GG	TT	TT	INTERGENIC			
SNP_5428_A_38578045	NC_021160.1	Ca_Kabuli_Chr01	38578045	CC	TT	TT	INTERGENIC			
SNP_5429_A_38578212	NC_021160.1	Ca_Kabuli_Chr01	38578212	TT	CC	CC	INTERGENIC			
SNP_5430_A_38580389	NC_021160.1	Ca_Kabuli_Chr01	38580389	TT	CC	CC	INTERGENIC			
SNP_5431_A_38580394	NC_021160.1	Ca_Kabuli_Chr01	38580394	CC	TT	TT	INTERGENIC			
SNP_5432_A_38584228	NC_021160.1	Ca_Kabuli_Chr01	38584228	CC	TT	TT	INTERGENIC			
SNP_5433_A_38592156	NC_021160.1	Ca_Kabuli_Chr01	38592156	CC	TT	TT	INTERGENIC			
SNP_5434_A_38592211	NC_021160.1	Ca_Kabuli_Chr01	38592211	AA	TT	TT	INTERGENIC			
SNP_5435_A_38592251	NC_021160.1	Ca_Kabuli_Chr01	38592251	AA	GG	GG	INTERGENIC			
SNP_5436_A_38592280	NC_021160.1	Ca_Kabuli_Chr01	38592280	AA	TT	TT	INTERGENIC			
SNP_5437_A_38592305	NC_021160.1	Ca_Kabuli_Chr01	38592305	CC	TT	TT	INTERGENIC			
SNP_5438_A_38592642	NC_021160.1	Ca_Kabuli_Chr01	38592642	AA	GG	GG	INTERGENIC			
SNP_5439_A_38594659	NC_021160.1	Ca_Kabuli_Chr01	38594659	TT	CC	CC	INTERGENIC			
SNP_5441_A_38605815	NC_021160.1	Ca_Kabuli_Chr01	38605815	GG	AA	AA	INTERGENIC			
SNP_5442_A_38610190	NC_021160.1	Ca_Kabuli_Chr01	38610190	TT	GG	GG	INTERGENIC			
SNP_5443_A_38615144	NC_021160.1	Ca_Kabuli_Chr01	38615144	AA	GG	GG	INTERGENIC			
SNP_5444_A_38615781	NC_021160.1	Ca_Kabuli_Chr01	38615781	TT	GG	GG	INTERGENIC			
SNP_5445_A_38621188	NC_021160.1	Ca_Kabuli_Chr01	38621188	CC	AA	AA	INTERGENIC			
SNP_5446_A_38621212	NC_021160.1	Ca_Kabuli_Chr01	38621212	AA	CC	CC	INTERGENIC			
SNP_5447_A_38627479	NC_021160.1	Ca_Kabuli_Chr01	38627479	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5448_A_38629300	NC_021160.1	Ca_Kabuli_Chr01	38629300	GG	AA	AA	INTERGENIC			
SNP_5449_A_38650826	NC_021160.1	Ca_Kabuli_Chr01	38650826	TT	GG	GG	INTERGENIC			
SNP_5450_A_38651048	NC_021160.1	Ca_Kabuli_Chr01	38651048	TT	CC	CC	INTERGENIC			
SNP_5451_A_38651082	NC_021160.1	Ca_Kabuli_Chr01	38651082	CC	TT	TT	INTERGENIC			
SNP_5452_A_38651092	NC_021160.1	Ca_Kabuli_Chr01	38651092	AA	GG	GG	INTERGENIC			
SNP_5453_A_38651098	NC_021160.1	Ca_Kabuli_Chr01	38651098	AA	CC	CC	INTERGENIC			
SNP_5454_A_38651197	NC_021160.1	Ca_Kabuli_Chr01	38651197	CC	AA	AA	INTERGENIC			
SNP_5455_A_38660082	NC_021160.1	Ca_Kabuli_Chr01	38660082	CC	TT	TT	INTERGENIC			
SNP_5456_A_38671155	NC_021160.1	Ca_Kabuli_Chr01	38671155	AA	GG	GG	INTERGENIC			
SNP_5457_A_38671666	NC_021160.1	Ca_Kabuli_Chr01	38671666	TT	AA	AA	INTERGENIC			
SNP_5458_A_38672586	NC_021160.1	Ca_Kabuli_Chr01	38672586	GG	AA	AA	INTERGENIC			
SNP_5459_A_38673403	NC_021160.1	Ca_Kabuli_Chr01	38673403	GG	AA	AA	INTERGENIC			
SNP_5460_A_38677127	NC_021160.1	Ca_Kabuli_Chr01	38677127	TT	CC	CC	INTERGENIC			
SNP_5461_A_38677343	NC_021160.1	Ca_Kabuli_Chr01	38677343	AA	CC	CC	INTERGENIC			
SNP_5462_A_38677399	NC_021160.1	Ca_Kabuli_Chr01	38677399	CC	GG	GG	INTERGENIC			
SNP_5463_A_38677402	NC_021160.1	Ca_Kabuli_Chr01	38677402	AA	CC	CC	INTERGENIC			
SNP_5464_A_38677414	NC_021160.1	Ca_Kabuli_Chr01	38677414	CC	TT	TT	INTERGENIC			
SNP_5465_A_38677420	NC_021160.1	Ca_Kabuli_Chr01	38677420	GG	AA	AA	INTERGENIC			
SNP_5466_A_38677476	NC_021160.1	Ca_Kabuli_Chr01	38677476	AA	GG	GG	INTERGENIC			
SNP_5467_A_38677496	NC_021160.1	Ca_Kabuli_Chr01	38677496	AA	CC	CC	INTERGENIC			
SNP_5468_A_38677514	NC_021160.1	Ca_Kabuli_Chr01	38677514	AA	GG	GG	INTERGENIC			
SNP_5469_A_38677534	NC_021160.1	Ca_Kabuli_Chr01	38677534	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5470_A_38677577	NC_021160.1	Ca_Kabuli_Chr01	38677577	AA	GG	GG	INTERGENIC		
SNP_5471_A_38677591	NC_021160.1	Ca_Kabuli_Chr01	38677591	AA	GG	GG	INTERGENIC		
SNP_5472_A_38677622	NC_021160.1	Ca_Kabuli_Chr01	38677622	AA	CC	CC	INTERGENIC		
SNP_5473_A_38677646	NC_021160.1	Ca_Kabuli_Chr01	38677646	TT	CC	CC	INTERGENIC		
SNP_5474_A_38680210	NC_021160.1	Ca_Kabuli_Chr01	38680210	AA	GG	GG	INTERGENIC		
SNP_5475_A_38699194	NC_021160.1	Ca_Kabuli_Chr01	38699194	AA	GG	GG	INTERGENIC		
SNP_5476_A_38704480	NC_021160.1	Ca_Kabuli_Chr01	38704480	CC	TT	TT	INTERGENIC		
SNP_5477_A_38709606	NC_021160.1	Ca_Kabuli_Chr01	38709606	TT	GG	GG	INTERGENIC		
SNP_5478_A_38737767	NC_021160.1	Ca_Kabuli_Chr01	38737767	AA	TT	TT	DRR	101493684	uncharacterized LOC101493684
SNP_5479_A_38738653	NC_021160.1	Ca_Kabuli_Chr01	38738653	TT	GG	GG	NON_SYNONYMOUS_CODING	101493684	uncharacterized LOC101493684
SNP_5480_A_38747973	NC_021160.1	Ca_Kabuli_Chr01	38747973	GG	AA	AA	INTERGENIC		
SNP_5481_A_38750098	NC_021160.1	Ca_Kabuli_Chr01	38750098	CC	TT	TT	INTERGENIC		
SNP_5482_A_38750207	NC_021160.1	Ca_Kabuli_Chr01	38750207	AA	GG	GG	INTERGENIC		
SNP_5483_A_38750232	NC_021160.1	Ca_Kabuli_Chr01	38750232	CC	TT	TT	INTERGENIC		
SNP_5484_A_38750266	NC_021160.1	Ca_Kabuli_Chr01	38750266	AA	CC	CC	INTERGENIC		
SNP_5485_A_38750293	NC_021160.1	Ca_Kabuli_Chr01	38750293	AA	GG	GG	INTERGENIC		
SNP_5486_A_38750311	NC_021160.1	Ca_Kabuli_Chr01	38750311	GG	AA	AA	INTERGENIC		
SNP_5487_A_38750318	NC_021160.1	Ca_Kabuli_Chr01	38750318	TT	CC	CC	INTERGENIC		
SNP_5488_A_38752269	NC_021160.1	Ca_Kabuli_Chr01	38752269	GG	AA	AA	INTERGENIC		
SNP_5489_A_38756945	NC_021160.1	Ca_Kabuli_Chr01	38756945	GG	AA	AA	URR	101508398	Unknown function
SNP_5491_A_38767601	NC_021160.1	Ca_Kabuli_Chr01	38767601	GG	AA	AA	INTERGENIC		
SNP_5492_A_38790275	NC_021160.1	Ca_Kabuli_Chr01	38790275	GG	AA	AA	URR	101494001	uncharacterized LOC101494001

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5494_A_38796380	NC_021160.1	Ca_Kabuli_Chr01	38796380	TT	CC	CC	INTERGENIC			
SNP_5495_A_38796491	NC_021160.1	Ca_Kabuli_Chr01	38796491	AA	CC	CC	INTERGENIC			
SNP_5496_A_38798899	NC_021160.1	Ca_Kabuli_Chr01	38798899	TT	CC	CC	INTERGENIC			
SNP_5497_A_38801393	NC_021160.1	Ca_Kabuli_Chr01	38801393	TT	CC	CC	INTERGENIC			
SNP_5498_A_38801607	NC_021160.1	Ca_Kabuli_Chr01	38801607	TT	AA	AA	INTERGENIC			
SNP_5499_A_38801616	NC_021160.1	Ca_Kabuli_Chr01	38801616	CC	TT	TT	INTERGENIC			
SNP_5500_A_38801643	NC_021160.1	Ca_Kabuli_Chr01	38801643	CC	AA	AA	INTERGENIC			
SNP_5501_A_38801675	NC_021160.1	Ca_Kabuli_Chr01	38801675	CC	TT	TT	INTERGENIC			
SNP_5502_A_38801967	NC_021160.1	Ca_Kabuli_Chr01	38801967	GG	TT	TT	INTERGENIC			
SNP_5503_A_38814836	NC_021160.1	Ca_Kabuli_Chr01	38814836	TT	CC	CC	URR	101509026	Unknown function	
SNP_5504_A_38814968	NC_021160.1	Ca_Kabuli_Chr01	38814968	CC	AA	AA	INTERGENIC			
SNP_5505_A_38814974	NC_021160.1	Ca_Kabuli_Chr01	38814974	CC	TT	TT	INTERGENIC			
SNP_5506_A_38815010	NC_021160.1	Ca_Kabuli_Chr01	38815010	CC	TT	TT	INTERGENIC			
SNP_5507_A_38817327	NC_021160.1	Ca_Kabuli_Chr01	38817327	GG	AA	AA	INTERGENIC			
SNP_5508_A_38846982	NC_021160.1	Ca_Kabuli_Chr01	38846982	TT	CC	CC	INTERGENIC			
SNP_5509_A_38847382	NC_021160.1	Ca_Kabuli_Chr01	38847382	AA	TT	TT	INTERGENIC			
SNP_5510_A_38847407	NC_021160.1	Ca_Kabuli_Chr01	38847407	TT	CC	CC	INTERGENIC			
SNP_5511_A_38850400	NC_021160.1	Ca_Kabuli_Chr01	38850400	TT	CC	CC	INTERGENIC			
SNP_5512_A_38853570	NC_021160.1	Ca_Kabuli_Chr01	38853570	TT	CC	CC	INTERGENIC			
SNP_5513_A_38874013	NC_021160.1	Ca_Kabuli_Chr01	38874013	CC	TT	TT	INTERGENIC			
SNP_5514_A_38885298	NC_021160.1	Ca_Kabuli_Chr01	38885298	AA	TT	TT	INTERGENIC			
SNP_5516_A_38887090	NC_021160.1	Ca_Kabuli_Chr01	38887090	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5517_A_38918108	NC_021160.1	Ca_Kabuli_Chr01	38918108	GG	AA	AA	INTERGENIC		
SNP_5518_A_38921725	NC_021160.1	Ca_Kabuli_Chr01	38921725	GG	TT	TT	INTERGENIC		
SNP_5519_A_38943517	NC_021160.1	Ca_Kabuli_Chr01	38943517	AA	GG	GG	INTERGENIC		
SNP_5520_A_38945691	NC_021160.1	Ca_Kabuli_Chr01	38945691	AA	TT	TT	INTERGENIC		
SNP_5521_A_38948592	NC_021160.1	Ca_Kabuli_Chr01	38948592	AA	GG	GG	INTERGENIC		
SNP_5522_A_38948627	NC_021160.1	Ca_Kabuli_Chr01	38948627	TT	AA	AA	INTERGENIC		
SNP_5523_A_38948675	NC_021160.1	Ca_Kabuli_Chr01	38948675	GG	AA	AA	INTERGENIC		
SNP_5524_A_38948680	NC_021160.1	Ca_Kabuli_Chr01	38948680	AA	GG	GG	INTERGENIC		
SNP_5525_A_38948734	NC_021160.1	Ca_Kabuli_Chr01	38948734	TT	CC	CC	INTERGENIC		
SNP_5526_A_38948736	NC_021160.1	Ca_Kabuli_Chr01	38948736	AA	GG	GG	INTERGENIC		
SNP_5527_A_38951967	NC_021160.1	Ca_Kabuli_Chr01	38951967	GG	CC	CC	INTERGENIC		
SNP_5528_A_38952364	NC_021160.1	Ca_Kabuli_Chr01	38952364	TT	CC	CC	INTERGENIC		
SNP_5529_A_38952721	NC_021160.1	Ca_Kabuli_Chr01	38952721	TT	CC	CC	INTERGENIC		
SNP_5530_A_38955809	NC_021160.1	Ca_Kabuli_Chr01	38955809	GG	CC	CC	DRR	101510966	Unknown function
SNP_5531_A_38955864	NC_021160.1	Ca_Kabuli_Chr01	38955864	CC	AA	AA	NON_SYNONYMOUS_CODING	101510966	Unknown function
SNP_5532_A_38955875	NC_021160.1	Ca_Kabuli_Chr01	38955875	CC	AA	AA	NON_SYNONYMOUS_CODING	101510966	Unknown function
SNP_5533_A_38956681	NC_021160.1	Ca_Kabuli_Chr01	38956681	TT	CC	CC	URR	101510966	Unknown function
SNP_5534_A_38961654	NC_021160.1	Ca_Kabuli_Chr01	38961654	CC	TT	TT	INTERGENIC		
SNP_5535_A_38962007	NC_021160.1	Ca_Kabuli_Chr01	38962007	TT	CC	CC	INTERGENIC		
SNP_5536_A_38965180	NC_021160.1	Ca_Kabuli_Chr01	38965180	TT	CC	CC	INTERGENIC		
SNP_5537_A_38970186	NC_021160.1	Ca_Kabuli_Chr01	38970186	AA	GG	GG	INTERGENIC		
SNP_5538_A_38970300	NC_021160.1	Ca_Kabuli_Chr01	38970300	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5539_A_38970731	NC_021160.1	Ca_Kabuli_Chr01	38970731	TT	GG	GG	INTERGENIC			
SNP_5540_A_38971367	NC_021160.1	Ca_Kabuli_Chr01	38971367	CC	TT	TT	INTERGENIC			
SNP_5541_A_38971380	NC_021160.1	Ca_Kabuli_Chr01	38971380	GG	TT	TT	INTERGENIC			
SNP_5542_A_39005442	NC_021160.1	Ca_Kabuli_Chr01	39005442	CC	TT	TT	INTERGENIC			
SNP_5543_A_39008598	NC_021160.1	Ca_Kabuli_Chr01	39008598	AA	CC	CC	INTERGENIC			
SNP_5544_A_39010888	NC_021160.1	Ca_Kabuli_Chr01	39010888	TT	AA	AA	INTERGENIC			
SNP_5545_A_39011196	NC_021160.1	Ca_Kabuli_Chr01	39011196	TT	GG	GG	INTERGENIC			
SNP_5546_A_39012684	NC_021160.1	Ca_Kabuli_Chr01	39012684	CC	AA	AA	INTERGENIC			
SNP_5547_A_39014737	NC_021160.1	Ca_Kabuli_Chr01	39014737	TT	CC	CC	INTERGENIC			
SNP_5548_A_39020771	NC_021160.1	Ca_Kabuli_Chr01	39020771	GG	AA	AA	INTERGENIC			
SNP_5549_A_39021807	NC_021160.1	Ca_Kabuli_Chr01	39021807	TT	AA	AA	INTERGENIC			
SNP_5550_A_39023777	NC_021160.1	Ca_Kabuli_Chr01	39023777	TT	CC	CC	INTERGENIC			
SNP_5551_A_39024062	NC_021160.1	Ca_Kabuli_Chr01	39024062	AA	GG	GG	INTERGENIC			
SNP_5552_A_39024236	NC_021160.1	Ca_Kabuli_Chr01	39024236	GG	TT	TT	INTERGENIC			
SNP_5554_A_39031897	NC_021160.1	Ca_Kabuli_Chr01	39031897	GG	AA	AA	INTERGENIC			
SNP_5555_A_39031916	NC_021160.1	Ca_Kabuli_Chr01	39031916	CC	TT	TT	INTERGENIC			
SNP_5557_A_39039838	NC_021160.1	Ca_Kabuli_Chr01	39039838	AA	GG	GG	INTERGENIC			
SNP_5558_A_39040994	NC_021160.1	Ca_Kabuli_Chr01	39040994	GG	TT	TT	INTERGENIC			
SNP_5559_A_39043130	NC_021160.1	Ca_Kabuli_Chr01	39043130	TT	CC	CC	INTERGENIC			
SNP_5560_A_39051000	NC_021160.1	Ca_Kabuli_Chr01	39051000	AA	GG	GG	INTERGENIC			
SNP_5561_A_39051141	NC_021160.1	Ca_Kabuli_Chr01	39051141	AA	GG	GG	INTERGENIC			
SNP_5562_A_39051202	NC_021160.1	Ca_Kabuli_Chr01	39051202	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5563_A_39051233	NC_021160.1	Ca_Kabuli_Chr01	39051233	TT	CC	CC	INTERGENIC			
SNP_5564_A_39051236	NC_021160.1	Ca_Kabuli_Chr01	39051236	AA	GG	GG	INTERGENIC			
SNP_5565_A_39051244	NC_021160.1	Ca_Kabuli_Chr01	39051244	AA	CC	CC	INTERGENIC			
SNP_5566_A_39051247	NC_021160.1	Ca_Kabuli_Chr01	39051247	AA	CC	CC	INTERGENIC			
SNP_5567_A_39051277	NC_021160.1	Ca_Kabuli_Chr01	39051277	AA	GG	GG	INTERGENIC			
SNP_5568_A_39051318	NC_021160.1	Ca_Kabuli_Chr01	39051318	TT	GG	GG	INTERGENIC			
SNP_5569_A_39051336	NC_021160.1	Ca_Kabuli_Chr01	39051336	GG	TT	TT	INTERGENIC			
SNP_5570_A_39051420	NC_021160.1	Ca_Kabuli_Chr01	39051420	TT	AA	AA	INTERGENIC			
SNP_5571_A_39051434	NC_021160.1	Ca_Kabuli_Chr01	39051434	AA	CC	CC	INTERGENIC			
SNP_5572_A_39051438	NC_021160.1	Ca_Kabuli_Chr01	39051438	GG	AA	AA	INTERGENIC			
SNP_5573_A_39051466	NC_021160.1	Ca_Kabuli_Chr01	39051466	CC	AA	AA	INTERGENIC			
SNP_5574_A_39051468	NC_021160.1	Ca_Kabuli_Chr01	39051468	GG	TT	TT	INTERGENIC			
SNP_5575_A_39051498	NC_021160.1	Ca_Kabuli_Chr01	39051498	TT	CC	CC	INTERGENIC			
SNP_5576_A_39057976	NC_021160.1	Ca_Kabuli_Chr01	39057976	CC	TT	TT	INTERGENIC			
SNP_5577_A_39061505	NC_021160.1	Ca_Kabuli_Chr01	39061505	GG	AA	AA	INTERGENIC			
SNP_5578_A_39061815	NC_021160.1	Ca_Kabuli_Chr01	39061815	GG	AA	AA	INTERGENIC			
SNP_5579_A_39066551	NC_021160.1	Ca_Kabuli_Chr01	39066551	GG	AA	AA	INTERGENIC			
SNP_5580_A_39070899	NC_021160.1	Ca_Kabuli_Chr01	39070899	CC	TT	TT	INTERGENIC			
SNP_5581_A_39072735	NC_021160.1	Ca_Kabuli_Chr01	39072735	AA	TT	TT	INTERGENIC			
SNP_5582_A_39072875	NC_021160.1	Ca_Kabuli_Chr01	39072875	AA	TT	TT	INTERGENIC			
SNP_5583_A_39074058	NC_021160.1	Ca_Kabuli_Chr01	39074058	GG	AA	AA	INTERGENIC			
SNP_5584_A_39074428	NC_021160.1	Ca_Kabuli_Chr01	39074428	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5585_A_39074793	NC_021160.1	Ca_Kabuli_Chr01	39074793	TT	CC	CC	INTERGENIC			
SNP_5586_A_39074798	NC_021160.1	Ca_Kabuli_Chr01	39074798	AA	CC	CC	INTERGENIC			
SNP_5587_A_39075192	NC_021160.1	Ca_Kabuli_Chr01	39075192	CC	TT	TT	INTERGENIC			
SNP_5588_A_39076821	NC_021160.1	Ca_Kabuli_Chr01	39076821	AA	CC	CC	INTERGENIC			
SNP_5589_A_39079167	NC_021160.1	Ca_Kabuli_Chr01	39079167	TT	GG	GG	INTERGENIC			
SNP_5590_A_39082060	NC_021160.1	Ca_Kabuli_Chr01	39082060	TT	GG	GG	INTERGENIC			
SNP_5591_A_39082090	NC_021160.1	Ca_Kabuli_Chr01	39082090	CC	TT	TT	INTERGENIC			
SNP_5592_A_39100867	NC_021160.1	Ca_Kabuli_Chr01	39100867	CC	AA	AA	INTERGENIC			
SNP_5593_A_39105122	NC_021160.1	Ca_Kabuli_Chr01	39105122	GG	AA	AA	INTERGENIC			
SNP_5594_A_39105157	NC_021160.1	Ca_Kabuli_Chr01	39105157	AA	CC	CC	INTERGENIC			
SNP_5595_A_39105183	NC_021160.1	Ca_Kabuli_Chr01	39105183	GG	CC	CC	INTERGENIC			
SNP_5596_A_39105217	NC_021160.1	Ca_Kabuli_Chr01	39105217	TT	CC	CC	INTERGENIC			
SNP_5597_A_39105246	NC_021160.1	Ca_Kabuli_Chr01	39105246	AA	GG	GG	INTERGENIC			
SNP_5598_A_39105251	NC_021160.1	Ca_Kabuli_Chr01	39105251	TT	CC	CC	INTERGENIC			
SNP_5599_A_39115907	NC_021160.1	Ca_Kabuli_Chr01	39115907	CC	TT	TT	INTERGENIC			
SNP_5600_A_39118819	NC_021160.1	Ca_Kabuli_Chr01	39118819	TT	GG	GG	INTERGENIC			
SNP_5601_A_39118834	NC_021160.1	Ca_Kabuli_Chr01	39118834	TT	CC	CC	INTERGENIC			
SNP_5602_A_39133613	NC_021160.1	Ca_Kabuli_Chr01	39133613	GG	AA	AA	INTERGENIC			
SNP_5603_A_39133990	NC_021160.1	Ca_Kabuli_Chr01	39133990	CC	TT	TT	INTERGENIC			
SNP_5604_A_39133992	NC_021160.1	Ca_Kabuli_Chr01	39133992	AA	GG	GG	INTERGENIC			
SNP_5605_A_39139080	NC_021160.1	Ca_Kabuli_Chr01	39139080	AA	TT	TT	INTERGENIC			
SNP_5606_A_39140654	NC_021160.1	Ca_Kabuli_Chr01	39140654	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5607_A_39140797	NC_021160.1	Ca_Kabuli_Chr01	39140797	TT	AA	AA	INTERGENIC		
SNP_5608_A_39140802	NC_021160.1	Ca_Kabuli_Chr01	39140802	CC	AA	AA	INTERGENIC		
SNP_5609_A_39144792	NC_021160.1	Ca_Kabuli_Chr01	39144792	TT	GG	GG	DRR	101494633	non-specific lipid-transfer protein 8
SNP_5612_A_39149669	NC_021160.1	Ca_Kabuli_Chr01	39149669	AA	GG	GG	INTERGENIC		
SNP_5613_A_39149899	NC_021160.1	Ca_Kabuli_Chr01	39149899	AA	CC	CC	INTERGENIC		
SNP_5614_A_39149905	NC_021160.1	Ca_Kabuli_Chr01	39149905	AA	TT	TT	INTERGENIC		
SNP_5615_A_39149919	NC_021160.1	Ca_Kabuli_Chr01	39149919	AA	CC	CC	INTERGENIC		
SNP_5616_A_39149980	NC_021160.1	Ca_Kabuli_Chr01	39149980	TT	CC	CC	INTERGENIC		
SNP_5617_A_39149999	NC_021160.1	Ca_Kabuli_Chr01	39149999	AA	CC	CC	INTERGENIC		
SNP_5618_A_39150007	NC_021160.1	Ca_Kabuli_Chr01	39150007	TT	GG	GG	INTERGENIC		
SNP_5619_A_39150039	NC_021160.1	Ca_Kabuli_Chr01	39150039	TT	CC	CC	INTERGENIC		
SNP_5620_A_39166535	NC_021160.1	Ca_Kabuli_Chr01	39166535	GG	AA	AA	INTERGENIC		
SNP_5621_A_39166570	NC_021160.1	Ca_Kabuli_Chr01	39166570	AA	TT	TT	INTERGENIC		
SNP_5622_A_39166600	NC_021160.1	Ca_Kabuli_Chr01	39166600	CC	AA	AA	INTERGENIC		
SNP_5623_A_39166603	NC_021160.1	Ca_Kabuli_Chr01	39166603	CC	AA	AA	INTERGENIC		
SNP_5624_A_39166634	NC_021160.1	Ca_Kabuli_Chr01	39166634	CC	GG	GG	INTERGENIC		
SNP_5625_A_39166823	NC_021160.1	Ca_Kabuli_Chr01	39166823	CC	TT	TT	INTERGENIC		
SNP_5626_A_39166827	NC_021160.1	Ca_Kabuli_Chr01	39166827	CC	TT	TT	INTERGENIC		
SNP_5627_A_39166929	NC_021160.1	Ca_Kabuli_Chr01	39166929	CC	TT	TT	INTERGENIC		
SNP_5628_A_39166940	NC_021160.1	Ca_Kabuli_Chr01	39166940	TT	CC	CC	INTERGENIC		
SNP_5629_A_39166942	NC_021160.1	Ca_Kabuli_Chr01	39166942	CC	TT	TT	INTERGENIC		
SNP_5630_A_39166944	NC_021160.1	Ca_Kabuli_Chr01	39166944	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5631_A_39166949	NC_021160.1	Ca_Kabuli_Chr01	39166949	CC	GG	GG	INTERGENIC			
SNP_5632_A_39166953	NC_021160.1	Ca_Kabuli_Chr01	39166953	AA	GG	GG	INTERGENIC			
SNP_5633_A_39166960	NC_021160.1	Ca_Kabuli_Chr01	39166960	TT	CC	CC	INTERGENIC			
SNP_5634_A_39166980	NC_021160.1	Ca_Kabuli_Chr01	39166980	AA	GG	GG	INTERGENIC			
SNP_5635_A_39226230	NC_021160.1	Ca_Kabuli_Chr01	39226230	GG	TT	TT	INTERGENIC			
SNP_5636_A_39227909	NC_021160.1	Ca_Kabuli_Chr01	39227909	TT	AA	AA	INTERGENIC			
SNP_5637_A_39251073	NC_021160.1	Ca_Kabuli_Chr01	39251073	CC	TT	TT	INTERGENIC			
SNP_5638_A_39261348	NC_021160.1	Ca_Kabuli_Chr01	39261348	AA	GG	GG	INTERGENIC			
SNP_5639_A_39261356	NC_021160.1	Ca_Kabuli_Chr01	39261356	GG	AA	AA	INTERGENIC			
SNP_5640_A_39261423	NC_021160.1	Ca_Kabuli_Chr01	39261423	TT	AA	AA	INTERGENIC			
SNP_5641_A_39261477	NC_021160.1	Ca_Kabuli_Chr01	39261477	GG	TT	TT	INTERGENIC			
SNP_5642_A_39261622	NC_021160.1	Ca_Kabuli_Chr01	39261622	GG	AA	AA	INTERGENIC			
SNP_5643_A_39261781	NC_021160.1	Ca_Kabuli_Chr01	39261781	GG	AA	AA	INTERGENIC			
SNP_5644_A_39261802	NC_021160.1	Ca_Kabuli_Chr01	39261802	TT	AA	AA	INTERGENIC			
SNP_5645_A_39261821	NC_021160.1	Ca_Kabuli_Chr01	39261821	GG	CC	CC	INTERGENIC			
SNP_5646_A_39261875	NC_021160.1	Ca_Kabuli_Chr01	39261875	GG	AA	AA	INTERGENIC			
SNP_5647_A_39261924	NC_021160.1	Ca_Kabuli_Chr01	39261924	CC	AA	AA	INTERGENIC			
SNP_5648_A_39261967	NC_021160.1	Ca_Kabuli_Chr01	39261967	GG	AA	AA	INTERGENIC			
SNP_5650_A_39262032	NC_021160.1	Ca_Kabuli_Chr01	39262032	AA	GG	GG	INTERGENIC			
SNP_5651_A_39262095	NC_021160.1	Ca_Kabuli_Chr01	39262095	CC	GG	GG	INTERGENIC			
SNP_5652_A_39262114	NC_021160.1	Ca_Kabuli_Chr01	39262114	AA	TT	TT	INTERGENIC			
SNP_5653_A_39262138	NC_021160.1	Ca_Kabuli_Chr01	39262138	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5654_A_39262440	NC_021160.1	Ca_Kabuli_Chr01	39262440	GG	AA	AA	INTERGENIC		
SNP_5655_A_39262576	NC_021160.1	Ca_Kabuli_Chr01	39262576	GG	AA	AA	INTERGENIC		
SNP_5656_A_39262591	NC_021160.1	Ca_Kabuli_Chr01	39262591	TT	GG	GG	INTERGENIC		
SNP_5657_A_39264722	NC_021160.1	Ca_Kabuli_Chr01	39264722	AA	CC	CC	INTERGENIC		
SNP_5658_A_39264744	NC_021160.1	Ca_Kabuli_Chr01	39264744	GG	CC	CC	INTERGENIC		
SNP_5659_A_39264780	NC_021160.1	Ca_Kabuli_Chr01	39264780	CC	GG	GG	INTERGENIC		
SNP_5660_A_39264950	NC_021160.1	Ca_Kabuli_Chr01	39264950	TT	CC	CC	INTERGENIC		
SNP_5661_A_39265224	NC_021160.1	Ca_Kabuli_Chr01	39265224	CC	GG	GG	INTERGENIC		
SNP_5662_A_39265303	NC_021160.1	Ca_Kabuli_Chr01	39265303	CC	TT	TT	INTERGENIC		
SNP_5663_A_39294439	NC_021160.1	Ca_Kabuli_Chr01	39294439	TT	GG	GG	INTERGENIC		
SNP_5664_A_39319951	NC_021160.1	Ca_Kabuli_Chr01	39319951	TT	CC	CC	INTERGENIC		
SNP_5665_A_39320333	NC_021160.1	Ca_Kabuli_Chr01	39320333	CC	TT	TT	INTERGENIC		
SNP_5666_A_39334579	NC_021160.1	Ca_Kabuli_Chr01	39334579	TT	CC	CC	INTERGENIC		
SNP_5668_A_39334823	NC_021160.1	Ca_Kabuli_Chr01	39334823	AA	CC	CC	INTERGENIC		
SNP_5669_A_39334831	NC_021160.1	Ca_Kabuli_Chr01	39334831	AA	CC	CC	INTERGENIC		
SNP_5670_A_39334835	NC_021160.1	Ca_Kabuli_Chr01	39334835	AA	TT	TT	INTERGENIC		
SNP_5671_A_39334869	NC_021160.1	Ca_Kabuli_Chr01	39334869	CC	TT	TT	INTERGENIC		
SNP_5672_A_39334906	NC_021160.1	Ca_Kabuli_Chr01	39334906	GG	TT	TT	INTERGENIC		
SNP_5673_A_39334907	NC_021160.1	Ca_Kabuli_Chr01	39334907	GG	CC	CC	INTERGENIC		
SNP_5674_A_39342492	NC_021160.1	Ca_Kabuli_Chr01	39342492	AA	GG	GG	INTERGENIC		
SNP_5675_A_39346879	NC_021160.1	Ca_Kabuli_Chr01	39346879	CC	TT	TT	INTRON	101495276	uncharacterized LOC101495276
SNP_5676_A_39366712	NC_021160.1	Ca_Kabuli_Chr01	39366712	TT	CC	CC	INTRON	101512250	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5678_A_39391956	NC_021160.1	Ca_Kabuli_Chr01	39391956	AA	GG	GG	INTERGENIC		
SNP_5679_A_39391982	NC_021160.1	Ca_Kabuli_Chr01	39391982	CC	TT	TT	INTERGENIC		
SNP_5680_A_39407700	NC_021160.1	Ca_Kabuli_Chr01	39407700	TT	GG	GG	URR	101512886	uncharacterized LOC101512886
SNP_5681_A_39418829	NC_021160.1	Ca_Kabuli_Chr01	39418829	CC	AA	AA	URR	101513214	Unknown function
SNP_5682_A_39418866	NC_021160.1	Ca_Kabuli_Chr01	39418866	TT	CC	CC	URR	101513214	Unknown function
SNP_5683_A_39419600	NC_021160.1	Ca_Kabuli_Chr01	39419600	TT	CC	CC	URR	101513214	Unknown function
SNP_5684_A_39419947	NC_021160.1	Ca_Kabuli_Chr01	39419947	CC	TT	TT	INTERGENIC		
SNP_5685_A_39427232	NC_021160.1	Ca_Kabuli_Chr01	39427232	AA	TT	TT	INTERGENIC		
SNP_5686_A_39430459	NC_021160.1	Ca_Kabuli_Chr01	39430459	CC	GG	GG	INTERGENIC		
SNP_5687_A_39430704	NC_021160.1	Ca_Kabuli_Chr01	39430704	GG	TT	TT	INTERGENIC		
SNP_5688_A_39431178	NC_021160.1	Ca_Kabuli_Chr01	39431178	AA	GG	GG	INTERGENIC		
SNP_5689_A_39436454	NC_021160.1	Ca_Kabuli_Chr01	39436454	CC	AA	AA	INTRON	101495600	myosin-12
SNP_5690_A_39436699	NC_021160.1	Ca_Kabuli_Chr01	39436699	GG	CC	CC	INTRON	101495600	myosin-12
SNP_5691_A_39437645	NC_021160.1	Ca_Kabuli_Chr01	39437645	GG	TT	TT	INTRON	101495600	myosin-12
SNP_5692_A_39438196	NC_021160.1	Ca_Kabuli_Chr01	39438196	GG	AA	AA	INTRON	101495600	myosin-12
SNP_5693_A_39438204	NC_021160.1	Ca_Kabuli_Chr01	39438204	TT	CC	CC	INTRON	101495600	myosin-12
SNP_5694_A_39438206	NC_021160.1	Ca_Kabuli_Chr01	39438206	TT	CC	CC	INTRON	101495600	myosin-12
SNP_5695_A_39438365	NC_021160.1	Ca_Kabuli_Chr01	39438365	GG	CC	CC	SYNONYMOUS_CODING	101495600	myosin-12
SNP_5696_A_39442555	NC_021160.1	Ca_Kabuli_Chr01	39442555	AA	CC	CC	INTRON	101495600	myosin-12
SNP_5697_A_39444109	NC_021160.1	Ca_Kabuli_Chr01	39444109	GG	AA	AA	INTRON	101495600	myosin-12
SNP_5699_A_39445185	NC_021160.1	Ca_Kabuli_Chr01	39445185	CC	TT	TT	INTRON	101495600	myosin-12
SNP_5700_A_39445314	NC_021160.1	Ca_Kabuli_Chr01	39445314	CC	TT	TT	INTRON	101495600	myosin-12

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5701_A_39448054	NC_021160.1	Ca_Kabuli_Chr01	39448054	CC	AA	AA	URR	101495600	myosin-12
SNP_5702_A_39448069	NC_021160.1	Ca_Kabuli_Chr01	39448069	GG	AA	AA	URR	101495600	myosin-12
SNP_5703_A_39448111	NC_021160.1	Ca_Kabuli_Chr01	39448111	TT	AA	AA	URR	101495600	myosin-12
SNP_5704_A_39448545	NC_021160.1	Ca_Kabuli_Chr01	39448545	GG	AA	AA	INTERGENIC		
SNP_5705_A_39448592	NC_021160.1	Ca_Kabuli_Chr01	39448592	GG	AA	AA	INTERGENIC		
SNP_5706_A_39450923	NC_021160.1	Ca_Kabuli_Chr01	39450923	CC	AA	AA	INTERGENIC		
SNP_5707_A_39482600	NC_021160.1	Ca_Kabuli_Chr01	39482600	AA	GG	GG	INTERGENIC		
SNP_5708_A_39482603	NC_021160.1	Ca_Kabuli_Chr01	39482603	AA	CC	CC	INTERGENIC		
SNP_5709_A_39496503	NC_021160.1	Ca_Kabuli_Chr01	39496503	CC	TT	TT	INTERGENIC		
SNP_5710_A_39514784	NC_021160.1	Ca_Kabuli_Chr01	39514784	TT	AA	AA	INTERGENIC		
SNP_5711_A_39516171	NC_021160.1	Ca_Kabuli_Chr01	39516171	TT	CC	CC	INTERGENIC		
SNP_5712_A_39524259	NC_021160.1	Ca_Kabuli_Chr01	39524259	AA	GG	GG	INTERGENIC		
SNP_5713_A_39540943	NC_021160.1	Ca_Kabuli_Chr01	39540943	TT	CC	CC	INTERGENIC		
SNP_5714_A_39552305	NC_021160.1	Ca_Kabuli_Chr01	39552305	AA	CC	CC	INTERGENIC		
SNP_5716_A_39552408	NC_021160.1	Ca_Kabuli_Chr01	39552408	TT	CC	CC	INTERGENIC		
SNP_5717_A_39552452	NC_021160.1	Ca_Kabuli_Chr01	39552452	AA	GG	GG	INTERGENIC		
SNP_5718_A_39552748	NC_021160.1	Ca_Kabuli_Chr01	39552748	TT	CC	CC	INTERGENIC		
SNP_5719_A_39552759	NC_021160.1	Ca_Kabuli_Chr01	39552759	TT	CC	CC	INTERGENIC		
SNP_5720_A_39552989	NC_021160.1	Ca_Kabuli_Chr01	39552989	CC	GG	GG	INTERGENIC		
SNP_5721_A_39560279	NC_021160.1	Ca_Kabuli_Chr01	39560279	TT	CC	CC	INTERGENIC		
SNP_5722_A_39560281	NC_021160.1	Ca_Kabuli_Chr01	39560281	TT	CC	CC	INTERGENIC		
SNP_5723_A_39560315	NC_021160.1	Ca_Kabuli_Chr01	39560315	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5724_A_39560321	NC_021160.1	Ca_Kabuli_Chr01	39560321	TT	CC	CC	INTERGENIC			
SNP_5725_A_39567244	NC_021160.1	Ca_Kabuli_Chr01	39567244	GG	TT	TT	INTERGENIC			
SNP_5726_A_39569143	NC_021160.1	Ca_Kabuli_Chr01	39569143	AA	TT	TT	INTERGENIC			
SNP_5727_A_39584001	NC_021160.1	Ca_Kabuli_Chr01	39584001	GG	TT	TT	INTERGENIC			
SNP_5728_A_39588776	NC_021160.1	Ca_Kabuli_Chr01	39588776	TT	CC	CC	INTERGENIC			
SNP_5729_A_39597400	NC_021160.1	Ca_Kabuli_Chr01	39597400	GG	AA	AA	INTERGENIC			
SNP_5731_A_39601051	NC_021160.1	Ca_Kabuli_Chr01	39601051	GG	CC	CC	INTERGENIC			
SNP_5732_A_39601079	NC_021160.1	Ca_Kabuli_Chr01	39601079	TT	CC	CC	INTERGENIC			
SNP_5733_A_39609095	NC_021160.1	Ca_Kabuli_Chr01	39609095	GG	TT	TT	INTERGENIC			
SNP_5735_A_39609332	NC_021160.1	Ca_Kabuli_Chr01	39609332	CC	TT	TT	INTERGENIC			
SNP_5736_A_39619156	NC_021160.1	Ca_Kabuli_Chr01	39619156	AA	TT	TT	URR	101497236	CTP synthase-like	
SNP_5737_A_39619755	NC_021160.1	Ca_Kabuli_Chr01	39619755	CC	TT	TT	URR	101497236	CTP synthase-like	
SNP_5738_A_39623093	NC_021160.1	Ca_Kabuli_Chr01	39623093	AA	CC	CC	INTERGENIC			
SNP_5739_A_39639027	NC_021160.1	Ca_Kabuli_Chr01	39639027	CC	AA	AA	INTERGENIC			
SNP_5740_A_39641956	NC_021160.1	Ca_Kabuli_Chr01	39641956	AA	GG	GG	INTERGENIC			
SNP_5741_A_39642517	NC_021160.1	Ca_Kabuli_Chr01	39642517	GG	AA	AA	INTERGENIC			
SNP_5742_A_39644306	NC_021160.1	Ca_Kabuli_Chr01	39644306	GG	AA	AA	INTERGENIC			
SNP_5743_A_39655165	NC_021160.1	Ca_Kabuli_Chr01	39655165	AA	GG	GG	INTERGENIC			
SNP_5744_A_39667688	NC_021160.1	Ca_Kabuli_Chr01	39667688	GG	AA	AA	URR	101497996	ABC transporter D family member 2, chloroplastic	
SNP_5746_A_39685887	NC_021160.1	Ca_Kabuli_Chr01	39685887	AA	GG	GG	INTERGENIC			
SNP_5747_A_39686205	NC_021160.1	Ca_Kabuli_Chr01	39686205	GG	TT	TT	INTERGENIC			
SNP_5748_A_39698316	NC_021160.1	Ca_Kabuli_Chr01	39698316	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5749_A_39718612	NC_021160.1	Ca_Kabuli_Chr01	39718612	AA	TT	TT	START_GAINED	101498989	isocitrate dehydrogenase [NADP]-like
SNP_5750_A_39724930	NC_021160.1	Ca_Kabuli_Chr01	39724930	GG	TT	TT	INTRON	101498989	isocitrate dehydrogenase [NADP]-like
SNP_5751_A_39731821	NC_021160.1	Ca_Kabuli_Chr01	39731821	GG	AA	AA	INTERGENIC		
SNP_5752_A_39737803	NC_021160.1	Ca_Kabuli_Chr01	39737803	TT	CC	CC	URR	101499310	serine/threonine-protein kinase RHS3
SNP_5753_A_39741358	NC_021160.1	Ca_Kabuli_Chr01	39741358	CC	TT	TT	INTERGENIC		
SNP_5754_A_39741364	NC_021160.1	Ca_Kabuli_Chr01	39741364	TT	CC	CC	INTERGENIC		
SNP_5755_A_39741367	NC_021160.1	Ca_Kabuli_Chr01	39741367	CC	AA	AA	INTERGENIC		
SNP_5756_A_39754493	NC_021160.1	Ca_Kabuli_Chr01	39754493	AA	GG	GG	INTERGENIC		
SNP_5757_A_39763595	NC_021160.1	Ca_Kabuli_Chr01	39763595	CC	AA	AA	INTERGENIC		
SNP_5758_A_39763613	NC_021160.1	Ca_Kabuli_Chr01	39763613	TT	GG	GG	INTERGENIC		
SNP_5759_A_39763643	NC_021160.1	Ca_Kabuli_Chr01	39763643	AA	TT	TT	INTERGENIC		
SNP_5760_A_39773692	NC_021160.1	Ca_Kabuli_Chr01	39773692	AA	CC	CC	INTERGENIC		
SNP_5761_A_39779559	NC_021160.1	Ca_Kabuli_Chr01	39779559	TT	GG	GG	INTERGENIC		
SNP_5762_A_39792197	NC_021160.1	Ca_Kabuli_Chr01	39792197	GG	TT	TT	INTERGENIC		
SNP_5763_A_39793266	NC_021160.1	Ca_Kabuli_Chr01	39793266	GG	AA	AA	INTERGENIC		
SNP_5764_A_39802075	NC_021160.1	Ca_Kabuli_Chr01	39802075	TT	CC	CC	INTERGENIC		
SNP_5765_A_39809618	NC_021160.1	Ca_Kabuli_Chr01	39809618	AA	GG	GG	INTRON	101488237	Unknown function
SNP_5766_A_39837538	NC_021160.1	Ca_Kabuli_Chr01	39837538	CC	TT	TT	INTERGENIC		
SNP_5767_A_39837554	NC_021160.1	Ca_Kabuli_Chr01	39837554	GG	TT	TT	INTERGENIC		
SNP_5768_A_39837555	NC_021160.1	Ca_Kabuli_Chr01	39837555	CC	TT	TT	INTERGENIC		
SNP_5769_A_39837556	NC_021160.1	Ca_Kabuli_Chr01	39837556	TT	CC	CC	INTERGENIC		
SNP_5770_A_39837561	NC_021160.1	Ca_Kabuli_Chr01	39837561	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5771_A_39842458	NC_021160.1	Ca_Kabuli_Chr01	39842458	GG	AA	AA	INTERGENIC		
SNP_5772_A_39842509	NC_021160.1	Ca_Kabuli_Chr01	39842509	CC	GG	GG	INTERGENIC		
SNP_5773_A_39843039	NC_021160.1	Ca_Kabuli_Chr01	39843039	CC	AA	AA	INTERGENIC		
SNP_5774_A_39868270	NC_021160.1	Ca_Kabuli_Chr01	39868270	TT	CC	CC	INTERGENIC		
SNP_5775_A_39868277	NC_021160.1	Ca_Kabuli_Chr01	39868277	CC	TT	TT	INTERGENIC		
SNP_5777_A_39923444	NC_021160.1	Ca_Kabuli_Chr01	39923444	GG	AA	AA	INTERGENIC		
SNP_5778_A_39927198	NC_021160.1	Ca_Kabuli_Chr01	39927198	AA	TT	TT	INTRON	101488910	Unknown function
SNP_5779_A_39928120	NC_021160.1	Ca_Kabuli_Chr01	39928120	CC	AA	AA	SYNONYMOUS_CODING	101488910	Unknown function
SNP_5780_A_39933322	NC_021160.1	Ca_Kabuli_Chr01	39933322	TT	CC	CC	URR	101488910	Unknown function
SNP_5781_A_39949001	NC_021160.1	Ca_Kabuli_Chr01	39949001	CC	TT	TT	INTERGENIC		
SNP_5782_A_39949069	NC_021160.1	Ca_Kabuli_Chr01	39949069	TT	AA	AA	INTERGENIC		
SNP_5783_A_39966964	NC_021160.1	Ca_Kabuli_Chr01	39966964	GG	AA	AA	INTERGENIC		
SNP_5784_A_39967000	NC_021160.1	Ca_Kabuli_Chr01	39967000	CC	TT	TT	INTERGENIC		
SNP_5785_A_39968746	NC_021160.1	Ca_Kabuli_Chr01	39968746	TT	AA	AA	INTERGENIC		
SNP_5786_A_39975093	NC_021160.1	Ca_Kabuli_Chr01	39975093	GG	CC	CC	INTERGENIC		
SNP_5788_A_39979187	NC_021160.1	Ca_Kabuli_Chr01	39979187	CC	TT	TT	INTERGENIC		
SNP_5789_A_39979238	NC_021160.1	Ca_Kabuli_Chr01	39979238	TT	CC	CC	INTERGENIC		
SNP_5790_A_39981452	NC_021160.1	Ca_Kabuli_Chr01	39981452	CC	TT	TT	INTERGENIC		
SNP_5791_A_40000642	NC_021160.1	Ca_Kabuli_Chr01	40000642	CC	TT	TT	INTERGENIC		
SNP_5792_A_40019321	NC_021160.1	Ca_Kabuli_Chr01	40019321	GG	CC	CC	INTERGENIC		
SNP_5793_A_40022489	NC_021160.1	Ca_Kabuli_Chr01	40022489	TT	GG	GG	INTERGENIC		
SNP_5794_A_40036838	NC_021160.1	Ca_Kabuli_Chr01	40036838	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5795_A_40052456	NC_021160.1	Ca_Kabuli_Chr01	40052456	TT	GG	GG	INTERGENIC			
SNP_5796_A_40052535	NC_021160.1	Ca_Kabuli_Chr01	40052535	GG	AA	AA	INTERGENIC			
SNP_5797_A_40053152	NC_021160.1	Ca_Kabuli_Chr01	40053152	AA	TT	TT	INTERGENIC			
SNP_5798_A_40056643	NC_021160.1	Ca_Kabuli_Chr01	40056643	AA	CC	CC	INTERGENIC			
SNP_5799_A_40056793	NC_021160.1	Ca_Kabuli_Chr01	40056793	CC	GG	GG	INTERGENIC			
SNP_5800_A_40063944	NC_021160.1	Ca_Kabuli_Chr01	40063944	AA	GG	GG	SYNONYMOUS_CODING	101489234	Unknown function	
SNP_5801_A_40068317	NC_021160.1	Ca_Kabuli_Chr01	40068317	GG	AA	AA	INTERGENIC			
SNP_5802_A_40068371	NC_021160.1	Ca_Kabuli_Chr01	40068371	GG	TT	TT	INTERGENIC			
SNP_5803_A_40068408	NC_021160.1	Ca_Kabuli_Chr01	40068408	TT	GG	GG	INTERGENIC			
SNP_5804_A_40068727	NC_021160.1	Ca_Kabuli_Chr01	40068727	TT	CC	CC	INTERGENIC			
SNP_5805_A_40068875	NC_021160.1	Ca_Kabuli_Chr01	40068875	CC	AA	AA	INTERGENIC			
SNP_5806_A_40079749	NC_021160.1	Ca_Kabuli_Chr01	40079749	TT	AA	AA	INTERGENIC			
SNP_5807_A_40097188	NC_021160.1	Ca_Kabuli_Chr01	40097188	GG	AA	AA	INTERGENIC			
SNP_5808_A_40099136	NC_021160.1	Ca_Kabuli_Chr01	40099136	GG	AA	AA	INTERGENIC			
SNP_5809_A_40099243	NC_021160.1	Ca_Kabuli_Chr01	40099243	AA	CC	CC	INTERGENIC			
SNP_5810_A_40099932	NC_021160.1	Ca_Kabuli_Chr01	40099932	CC	TT	TT	INTERGENIC			
SNP_5811_A_40115382	NC_021160.1	Ca_Kabuli_Chr01	40115382	TT	CC	CC	INTERGENIC			
SNP_5812_A_40122698	NC_021160.1	Ca_Kabuli_Chr01	40122698	CC	AA	AA	INTERGENIC			
SNP_5813_A_40122704	NC_021160.1	Ca_Kabuli_Chr01	40122704	AA	GG	GG	INTERGENIC			
SNP_5814_A_40123481	NC_021160.1	Ca_Kabuli_Chr01	40123481	CC	TT	TT	INTERGENIC			
SNP_5815_A_40125171	NC_021160.1	Ca_Kabuli_Chr01	40125171	CC	TT	TT	INTERGENIC			
SNP_5816_A_40134782	NC_021160.1	Ca_Kabuli_Chr01	40134782	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_5817_A_40141831	NC_021160.1	Ca_Kabuli_Chr01	40141831	AA	GG	GG	INTERGENIC			
SNP_5818_A_40141836	NC_021160.1	Ca_Kabuli_Chr01	40141836	CC	GG	GG	INTERGENIC			
SNP_5819_A_40141855	NC_021160.1	Ca_Kabuli_Chr01	40141855	TT	AA	AA	INTERGENIC			
SNP_5820_A_40142140	NC_021160.1	Ca_Kabuli_Chr01	40142140	TT	GG	GG	INTERGENIC			
SNP_5821_A_40142148	NC_021160.1	Ca_Kabuli_Chr01	40142148	AA	GG	GG	INTERGENIC			
SNP_5822_A_40142184	NC_021160.1	Ca_Kabuli_Chr01	40142184	TT	CC	CC	INTERGENIC			
SNP_5823_A_40142188	NC_021160.1	Ca_Kabuli_Chr01	40142188	AA	GG	GG	INTERGENIC			
SNP_5824_A_40142220	NC_021160.1	Ca_Kabuli_Chr01	40142220	GG	AA	AA	INTERGENIC			
SNP_5825_A_40142251	NC_021160.1	Ca_Kabuli_Chr01	40142251	TT	CC	CC	INTERGENIC			
SNP_5826_A_40142259	NC_021160.1	Ca_Kabuli_Chr01	40142259	TT	CC	CC	INTERGENIC			
SNP_5827_A_40142261	NC_021160.1	Ca_Kabuli_Chr01	40142261	GG	AA	AA	INTERGENIC			
SNP_5828_A_40142688	NC_021160.1	Ca_Kabuli_Chr01	40142688	AA	CC	CC	INTERGENIC			
SNP_5829_A_40144678	NC_021160.1	Ca_Kabuli_Chr01	40144678	AA	GG	GG	INTERGENIC			
SNP_5830_A_40144701	NC_021160.1	Ca_Kabuli_Chr01	40144701	AA	GG	GG	INTERGENIC			
SNP_5831_A_40145898	NC_021160.1	Ca_Kabuli_Chr01	40145898	AA	GG	GG	INTERGENIC			
SNP_5832_A_40158294	NC_021160.1	Ca_Kabuli_Chr01	40158294	TT	GG	GG	INTERGENIC			
SNP_5833_A_40162086	NC_021160.1	Ca_Kabuli_Chr01	40162086	CC	TT	TT	INTERGENIC			
SNP_5834_A_40163362	NC_021160.1	Ca_Kabuli_Chr01	40163362	AA	TT	TT	INTERGENIC			
SNP_5835_A_40165567	NC_021160.1	Ca_Kabuli_Chr01	40165567	TT	CC	CC	INTERGENIC			
SNP_5836_A_40165771	NC_021160.1	Ca_Kabuli_Chr01	40165771	AA	GG	GG	INTERGENIC			
SNP_5837_A_40178289	NC_021160.1	Ca_Kabuli_Chr01	40178289	TT	AA	AA	INTERGENIC			
SNP_5838_A_40180155	NC_021160.1	Ca_Kabuli_Chr01	40180155	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5839_A_40180814	NC_021160.1	Ca_Kabuli_Chr01	40180814	CC	TT	TT	INTERGENIC		
SNP_5840_A_40180815	NC_021160.1	Ca_Kabuli_Chr01	40180815	AA	TT	TT	INTERGENIC		
SNP_5841_A_40180823	NC_021160.1	Ca_Kabuli_Chr01	40180823	AA	GG	GG	INTERGENIC		
SNP_5842_A_40185201	NC_021160.1	Ca_Kabuli_Chr01	40185201	AA	GG	GG	INTRON	101503011	protein ASPARTIC PROTEASE IN GUARD CELL 1
SNP_5843_A_40188688	NC_021160.1	Ca_Kabuli_Chr01	40188688	TT	CC	CC	URR	101503011	protein ASPARTIC PROTEASE IN GUARD CELL 1
SNP_5844_A_40194162	NC_021160.1	Ca_Kabuli_Chr01	40194162	CC	TT	TT	INTERGENIC		
SNP_5845_A_40206927	NC_021160.1	Ca_Kabuli_Chr01	40206927	AA	GG	GG	INTERGENIC		
SNP_5846_A_40207091	NC_021160.1	Ca_Kabuli_Chr01	40207091	AA	GG	GG	INTERGENIC		
SNP_5847_A_40209145	NC_021160.1	Ca_Kabuli_Chr01	40209145	AA	GG	GG	INTERGENIC		
SNP_5848_A_40209170	NC_021160.1	Ca_Kabuli_Chr01	40209170	TT	GG	GG	INTERGENIC		
SNP_5849_A_40209225	NC_021160.1	Ca_Kabuli_Chr01	40209225	TT	CC	CC	INTERGENIC		
SNP_5850_A_40209291	NC_021160.1	Ca_Kabuli_Chr01	40209291	GG	AA	AA	INTERGENIC		
SNP_5851_A_40209296	NC_021160.1	Ca_Kabuli_Chr01	40209296	TT	CC	CC	INTERGENIC		
SNP_5852_A_40209315	NC_021160.1	Ca_Kabuli_Chr01	40209315	TT	CC	CC	INTERGENIC		
SNP_5853_A_40209338	NC_021160.1	Ca_Kabuli_Chr01	40209338	AA	GG	GG	INTERGENIC		
SNP_5854_A_40209340	NC_021160.1	Ca_Kabuli_Chr01	40209340	CC	AA	AA	INTERGENIC		
SNP_5855_A_40209454	NC_021160.1	Ca_Kabuli_Chr01	40209454	AA	GG	GG	INTERGENIC		
SNP_5856_A_40209469	NC_021160.1	Ca_Kabuli_Chr01	40209469	TT	GG	GG	INTERGENIC		
SNP_5857_A_40209499	NC_021160.1	Ca_Kabuli_Chr01	40209499	TT	CC	CC	INTERGENIC		
SNP_5858_A_40209500	NC_021160.1	Ca_Kabuli_Chr01	40209500	GG	CC	CC	INTERGENIC		
SNP_5859_A_40209507	NC_021160.1	Ca_Kabuli_Chr01	40209507	AA	CC	CC	INTERGENIC		
SNP_5860_A_40224173	NC_021160.1	Ca_Kabuli_Chr01	40224173	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5862_A_40248694	NC_021160.1	Ca_Kabuli_Chr01	40248694	AA	GG	GG	INTERGENIC		
SNP_5863_A_40248934	NC_021160.1	Ca_Kabuli_Chr01	40248934	AA	GG	GG	INTERGENIC		
SNP_5864_A_40272449	NC_021160.1	Ca_Kabuli_Chr01	40272449	GG	AA	AA	INTERGENIC		
SNP_5865_A_40277739	NC_021160.1	Ca_Kabuli_Chr01	40277739	TT	AA	AA	INTERGENIC		
SNP_5866_A_40278067	NC_021160.1	Ca_Kabuli_Chr01	40278067	CC	GG	GG	INTERGENIC		
SNP_5867_A_40278965	NC_021160.1	Ca_Kabuli_Chr01	40278965	CC	AA	AA	INTERGENIC		
SNP_5868_A_40279274	NC_021160.1	Ca_Kabuli_Chr01	40279274	AA	CC	CC	INTERGENIC		
SNP_5869_A_40296840	NC_021160.1	Ca_Kabuli_Chr01	40296840	GG	AA	AA	INTERGENIC		
SNP_5870_A_40296999	NC_021160.1	Ca_Kabuli_Chr01	40296999	GG	AA	AA	INTERGENIC		
SNP_5871_A_40297522	NC_021160.1	Ca_Kabuli_Chr01	40297522	AA	GG	GG	INTERGENIC		
SNP_5872_A_40300246	NC_021160.1	Ca_Kabuli_Chr01	40300246	TT	GG	GG	INTERGENIC		
SNP_5873_A_40302644	NC_021160.1	Ca_Kabuli_Chr01	40302644	GG	TT	TT	DRR	101490536	Unknown function
SNP_5874_A_40312397	NC_021160.1	Ca_Kabuli_Chr01	40312397	TT	GG	GG	DRR	101503337	YTH domain-containing family protein 2
SNP_5875_A_40312399	NC_021160.1	Ca_Kabuli_Chr01	40312399	AA	GG	GG	DRR	101503337	YTH domain-containing family protein 2
SNP_5876_A_40315119	NC_021160.1	Ca_Kabuli_Chr01	40315119	CC	TT	TT	INTRON	101503337	YTH domain-containing family protein 2
SNP_5877_A_40319163	NC_021160.1	Ca_Kabuli_Chr01	40319163	AA	GG	GG	URR	101503337	YTH domain-containing family protein 2
SNP_5878_A_40320981	NC_021160.1	Ca_Kabuli_Chr01	40320981	TT	GG	GG	INTERGENIC		
SNP_5879_A_40322436	NC_021160.1	Ca_Kabuli_Chr01	40322436	TT	AA	AA	INTERGENIC		
SNP_5880_A_40325034	NC_021160.1	Ca_Kabuli_Chr01	40325034	GG	AA	AA	INTERGENIC		
SNP_5881_A_40327106	NC_021160.1	Ca_Kabuli_Chr01	40327106	TT	AA	AA	INTERGENIC		
SNP_5882_A_40327346	NC_021160.1	Ca_Kabuli_Chr01	40327346	AA	GG	GG	INTERGENIC		
SNP_5883_A_40337695	NC_021160.1	Ca_Kabuli_Chr01	40337695	CC	AA	AA	INTRON	101503894	nuclear-pore anchor

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5884_A_40340645	NC_021160.1	Ca_Kabuli_Chr01	40340645	CC	TT	TT	SYNONYMOUS_CODING	101503894	nuclear-pore anchor
SNP_5885_A_40343424	NC_021160.1	Ca_Kabuli_Chr01	40343424	AA	CC	CC	INTRON	101503894	nuclear-pore anchor
SNP_5886_A_40350169	NC_021160.1	Ca_Kabuli_Chr01	40350169	AA	GG	GG	INTRON	101503894	nuclear-pore anchor
SNP_5887_A_40355864	NC_021160.1	Ca_Kabuli_Chr01	40355864	GG	CC	CC	INTRON	101503894	nuclear-pore anchor
SNP_5888_A_40356019	NC_021160.1	Ca_Kabuli_Chr01	40356019	CC	TT	TT	INTRON	101503894	nuclear-pore anchor
SNP_5889_A_40359240	NC_021160.1	Ca_Kabuli_Chr01	40359240	TT	AA	AA	INTRON	101503894	nuclear-pore anchor
SNP_5890_A_40359244	NC_021160.1	Ca_Kabuli_Chr01	40359244	CC	TT	TT	INTRON	101503894	nuclear-pore anchor
SNP_5891_A_40359450	NC_021160.1	Ca_Kabuli_Chr01	40359450	TT	CC	CC	NON_SYNONYMOUS_CODING	101503894	nuclear-pore anchor
SNP_5892_A_40359525	NC_021160.1	Ca_Kabuli_Chr01	40359525	TT	AA	AA	INTRON	101503894	nuclear-pore anchor
SNP_5893_A_40365778	NC_021160.1	Ca_Kabuli_Chr01	40365778	TT	CC	CC	INTRON	101503894	nuclear-pore anchor
SNP_5896_A_40391637	NC_021160.1	Ca_Kabuli_Chr01	40391637	CC	GG	GG	INTERGENIC		
SNP_5897_A_40391814	NC_021160.1	Ca_Kabuli_Chr01	40391814	GG	AA	AA	INTERGENIC		
SNP_5898_A_40391821	NC_021160.1	Ca_Kabuli_Chr01	40391821	TT	CC	CC	INTERGENIC		
SNP_5899_A_40396751	NC_021160.1	Ca_Kabuli_Chr01	40396751	TT	AA	AA	INTERGENIC		
SNP_5900_A_40397798	NC_021160.1	Ca_Kabuli_Chr01	40397798	TT	AA	AA	INTERGENIC		
SNP_5901_A_40398405	NC_021160.1	Ca_Kabuli_Chr01	40398405	AA	CC	CC	INTERGENIC		
SNP_5902_A_40402105	NC_021160.1	Ca_Kabuli_Chr01	40402105	TT	CC	CC	INTERGENIC		
SNP_5903_A_40402129	NC_021160.1	Ca_Kabuli_Chr01	40402129	GG	AA	AA	INTERGENIC		
SNP_5904_A_40406226	NC_021160.1	Ca_Kabuli_Chr01	40406226	AA	GG	GG	INTERGENIC		
SNP_5905_A_40412065	NC_021160.1	Ca_Kabuli_Chr01	40412065	AA	GG	GG	INTERGENIC		
SNP_5906_A_40412460	NC_021160.1	Ca_Kabuli_Chr01	40412460	TT	CC	CC	INTERGENIC		
SNP_5907_A_40417256	NC_021160.1	Ca_Kabuli_Chr01	40417256	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5908_A_40417670	NC_021160.1	Ca_Kabuli_Chr01	40417670	GG	AA	AA	INTERGENIC		
SNP_5909_A_40418030	NC_021160.1	Ca_Kabuli_Chr01	40418030	AA	GG	GG	INTERGENIC		
SNP_5910_A_40421608	NC_021160.1	Ca_Kabuli_Chr01	40421608	GG	AA	AA	INTRON	101491491	probable CCR4-associated factor 1 homolog 11
SNP_5911_A_40422400	NC_021160.1	Ca_Kabuli_Chr01	40422400	GG	CC	CC	NON_SYNONYMOUS_CODING	101491491	probable CCR4-associated factor 1 homolog 11
SNP_5914_A_40427989	NC_021160.1	Ca_Kabuli_Chr01	40427989	AA	GG	GG	URR	101491491	probable CCR4-associated factor 1 homolog 11
SNP_5915_A_40433926	NC_021160.1	Ca_Kabuli_Chr01	40433926	TT	AA	AA	INTERGENIC		
SNP_5916_A_40445006	NC_021160.1	Ca_Kabuli_Chr01	40445006	TT	CC	CC	INTERGENIC		
SNP_5917_A_40483777	NC_021160.1	Ca_Kabuli_Chr01	40483777	AA	GG	GG	INTERGENIC		
SNP_5918_A_40488465	NC_021160.1	Ca_Kabuli_Chr01	40488465	TT	AA	AA	INTRON	101492924	interactor of constitutive active ROPs 4
SNP_5919_A_40506799	NC_021160.1	Ca_Kabuli_Chr01	40506799	TT	GG	GG	INTERGENIC		
SNP_5923_A_40538329	NC_021160.1	Ca_Kabuli_Chr01	40538329	AA	GG	GG	INTERGENIC		
SNP_5924_A_40725472	NC_021160.1	Ca_Kabuli_Chr01	40725472	TT	CC	CC	INTERGENIC		
SNP_5925_A_40754028	NC_021160.1	Ca_Kabuli_Chr01	40754028	TT	AA	AA	INTERGENIC		
SNP_5926_A_40785094	NC_021160.1	Ca_Kabuli_Chr01	40785094	TT	CC	CC	INTERGENIC		
SNP_5927_A_40785395	NC_021160.1	Ca_Kabuli_Chr01	40785395	TT	CC	CC	INTERGENIC		
SNP_5928_A_40790003	NC_021160.1	Ca_Kabuli_Chr01	40790003	GG	AA	AA	INTERGENIC		
SNP_5929_A_40790038	NC_021160.1	Ca_Kabuli_Chr01	40790038	GG	AA	AA	INTERGENIC		
SNP_5931_A_40814731	NC_021160.1	Ca_Kabuli_Chr01	40814731	GG	AA	AA	INTERGENIC		
SNP_5932_A_40814750	NC_021160.1	Ca_Kabuli_Chr01	40814750	GG	AA	AA	INTERGENIC		
SNP_5933_A_40814759	NC_021160.1	Ca_Kabuli_Chr01	40814759	TT	CC	CC	INTERGENIC		
SNP_5934_A_40814760	NC_021160.1	Ca_Kabuli_Chr01	40814760	TT	CC	CC	INTERGENIC		
SNP_5935_A_40814778	NC_021160.1	Ca_Kabuli_Chr01	40814778	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5936_A_40814811	NC_021160.1	Ca_Kabuli_Chr01	40814811	AA	GG	GG	INTERGENIC		
SNP_5937_A_40814815	NC_021160.1	Ca_Kabuli_Chr01	40814815	GG	AA	AA	INTERGENIC		
SNP_5938_A_40814833	NC_021160.1	Ca_Kabuli_Chr01	40814833	TT	CC	CC	INTERGENIC		
SNP_5939_A_40814834	NC_021160.1	Ca_Kabuli_Chr01	40814834	AA	GG	GG	INTERGENIC		
SNP_5940_A_40814899	NC_021160.1	Ca_Kabuli_Chr01	40814899	AA	GG	GG	INTERGENIC		
SNP_5941_A_40814942	NC_021160.1	Ca_Kabuli_Chr01	40814942	TT	GG	GG	INTERGENIC		
SNP_5942_A_40814943	NC_021160.1	Ca_Kabuli_Chr01	40814943	GG	TT	TT	INTERGENIC		
SNP_5943_A_40827843	NC_021160.1	Ca_Kabuli_Chr01	40827843	CC	GG	GG	INTERGENIC		
SNP_5944_A_40838269	NC_021160.1	Ca_Kabuli_Chr01	40838269	TT	AA	AA	INTERGENIC		
SNP_5945_A_40838282	NC_021160.1	Ca_Kabuli_Chr01	40838282	GG	TT	TT	INTERGENIC		
SNP_5946_A_40838350	NC_021160.1	Ca_Kabuli_Chr01	40838350	TT	CC	CC	INTERGENIC		
SNP_5947_A_40838510	NC_021160.1	Ca_Kabuli_Chr01	40838510	GG	AA	AA	INTERGENIC		
SNP_5948_A_40839972	NC_021160.1	Ca_Kabuli_Chr01	40839972	AA	GG	GG	INTERGENIC		
SNP_5950_A_40862017	NC_021160.1	Ca_Kabuli_Chr01	40862017	AA	GG	GG	INTERGENIC		
SNP_5951_A_40870128	NC_021160.1	Ca_Kabuli_Chr01	40870128	AA	GG	GG	INTERGENIC		
SNP_5952_A_40870156	NC_021160.1	Ca_Kabuli_Chr01	40870156	TT	CC	CC	INTERGENIC		
SNP_5953_A_40871861	NC_021160.1	Ca_Kabuli_Chr01	40871861	CC	TT	TT	DRR	101499524	chitinase 2-like
SNP_5954_A_40871869	NC_021160.1	Ca_Kabuli_Chr01	40871869	AA	CC	CC	DRR	101499524	chitinase 2-like
SNP_5955_A_40872330	NC_021160.1	Ca_Kabuli_Chr01	40872330	AA	GG	GG	DRR	101499524	chitinase 2-like
SNP_5956_A_40872333	NC_021160.1	Ca_Kabuli_Chr01	40872333	CC	TT	TT	DRR	101499524	chitinase 2-like
SNP_5957_A_40872354	NC_021160.1	Ca_Kabuli_Chr01	40872354	TT	GG	GG	DRR	101499524	chitinase 2-like
SNP_5958_A_40872402	NC_021160.1	Ca_Kabuli_Chr01	40872402	AA	GG	GG	DRR	101499524	chitinase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5959_A_40872406	NC_021160.1	Ca_Kabuli_Chr01	40872406	AA	GG	GG	DRR	101499524	chitinase 2-like
SNP_5960_A_40872426	NC_021160.1	Ca_Kabuli_Chr01	40872426	AA	GG	GG	DRR	101499524	chitinase 2-like
SNP_5961_A_40872442	NC_021160.1	Ca_Kabuli_Chr01	40872442	TT	CC	CC	DRR	101499524	chitinase 2-like
SNP_5962_A_40872459	NC_021160.1	Ca_Kabuli_Chr01	40872459	AA	CC	CC	DRR	101499524	chitinase 2-like
SNP_5963_A_40881506	NC_021160.1	Ca_Kabuli_Chr01	40881506	CC	TT	TT	INTERGENIC		
SNP_5964_A_40885580	NC_021160.1	Ca_Kabuli_Chr01	40885580	GG	AA	AA	DRR	101499824	chitinase 2-like
SNP_5965_A_40887554	NC_021160.1	Ca_Kabuli_Chr01	40887554	CC	TT	TT	URR	101499824	chitinase 2-like
SNP_5966_A_40887877	NC_021160.1	Ca_Kabuli_Chr01	40887877	TT	CC	CC	URR	101499824	chitinase 2-like
SNP_5967_A_40887975	NC_021160.1	Ca_Kabuli_Chr01	40887975	GG	AA	AA	URR	101499824	chitinase 2-like
SNP_5968_A_40889660	NC_021160.1	Ca_Kabuli_Chr01	40889660	GG	TT	TT	INTERGENIC		
SNP_5969_A_40889662	NC_021160.1	Ca_Kabuli_Chr01	40889662	AA	TT	TT	INTERGENIC		
SNP_5970_A_40889664	NC_021160.1	Ca_Kabuli_Chr01	40889664	CC	TT	TT	INTERGENIC		
SNP_5971_A_40889742	NC_021160.1	Ca_Kabuli_Chr01	40889742	AA	GG	GG	INTERGENIC		
SNP_5973_A_40889817	NC_021160.1	Ca_Kabuli_Chr01	40889817	TT	AA	AA	INTERGENIC		
SNP_5974_A_40890118	NC_021160.1	Ca_Kabuli_Chr01	40890118	GG	CC	CC	INTERGENIC		
SNP_5975_A_40890134	NC_021160.1	Ca_Kabuli_Chr01	40890134	CC	AA	AA	INTERGENIC		
SNP_5976_A_40890162	NC_021160.1	Ca_Kabuli_Chr01	40890162	GG	TT	TT	INTERGENIC		
SNP_5977_A_40890181	NC_021160.1	Ca_Kabuli_Chr01	40890181	AA	TT	TT	INTERGENIC		
SNP_5978_A_40890183	NC_021160.1	Ca_Kabuli_Chr01	40890183	TT	CC	CC	INTERGENIC		
SNP_5979_A_40890201	NC_021160.1	Ca_Kabuli_Chr01	40890201	TT	CC	CC	INTERGENIC		
SNP_5980_A_40890259	NC_021160.1	Ca_Kabuli_Chr01	40890259	TT	AA	AA	INTERGENIC		
SNP_5981_A_40890260	NC_021160.1	Ca_Kabuli_Chr01	40890260	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_5982_A_40890357	NC_021160.1	Ca_Kabuli_Chr01	40890357	AA	GG	GG	INTERGENIC		
SNP_5983_A_40890419	NC_021160.1	Ca_Kabuli_Chr01	40890419	CC	TT	TT	INTERGENIC		
SNP_5984_A_40890432	NC_021160.1	Ca_Kabuli_Chr01	40890432	CC	TT	TT	INTERGENIC		
SNP_5985_A_40890452	NC_021160.1	Ca_Kabuli_Chr01	40890452	AA	GG	GG	INTERGENIC		
SNP_5986_A_40890472	NC_021160.1	Ca_Kabuli_Chr01	40890472	GG	AA	AA	INTERGENIC		
SNP_5987_A_40890650	NC_021160.1	Ca_Kabuli_Chr01	40890650	AA	TT	TT	INTERGENIC		
SNP_5988_A_40890656	NC_021160.1	Ca_Kabuli_Chr01	40890656	TT	CC	CC	INTERGENIC		
SNP_5989_A_40895239	NC_021160.1	Ca_Kabuli_Chr01	40895239	TT	CC	CC	INTERGENIC		
SNP_5991_A_41076406	NC_021160.1	Ca_Kabuli_Chr01	41076406	GG	TT	TT	INTERGENIC		
SNP_5992_A_41103408	NC_021160.1	Ca_Kabuli_Chr01	41103408	AA	GG	GG	INTERGENIC		
SNP_5993_A_41103731	NC_021160.1	Ca_Kabuli_Chr01	41103731	TT	CC	CC	INTERGENIC		
SNP_5994_A_41103766	NC_021160.1	Ca_Kabuli_Chr01	41103766	TT	CC	CC	INTERGENIC		
SNP_5995_A_41136378	NC_021160.1	Ca_Kabuli_Chr01	41136378	AA	GG	GG	INTERGENIC		
SNP_5996_A_41237292	NC_021160.1	Ca_Kabuli_Chr01	41237292	TT	CC	CC	URR	101507760	albumin-2-like
SNP_5998_A_41415741	NC_021160.1	Ca_Kabuli_Chr01	41415741	GG	TT	TT	INTRON	101488911	glutathione S-transferase 3-like
SNP_5999_A_41416739	NC_021160.1	Ca_Kabuli_Chr01	41416739	AA	CC	CC	INTRON	101488911	glutathione S-transferase 3-like
SNP_6000_A_41422585	NC_021160.1	Ca_Kabuli_Chr01	41422585	GG	AA	AA	INTRON	101488911	glutathione S-transferase 3-like
SNP_6001_A_41429140	NC_021160.1	Ca_Kabuli_Chr01	41429140	TT	CC	CC	INTERGENIC		
SNP_6002_A_41450818	NC_021160.1	Ca_Kabuli_Chr01	41450818	CC	TT	TT	INTERGENIC		
SNP_6003_A_41450840	NC_021160.1	Ca_Kabuli_Chr01	41450840	TT	GG	GG	INTERGENIC		
SNP_6004_A_41450916	NC_021160.1	Ca_Kabuli_Chr01	41450916	GG	AA	AA	INTERGENIC		
SNP_6005_A_41452788	NC_021160.1	Ca_Kabuli_Chr01	41452788	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6006_A_41452800	NC_021160.1	Ca_Kabuli_Chr01	41452800	TT	CC	CC	INTERGENIC			
SNP_6007_A_41452813	NC_021160.1	Ca_Kabuli_Chr01	41452813	CC	AA	AA	INTERGENIC			
SNP_6009_A_41504108	NC_021160.1	Ca_Kabuli_Chr01	41504108	TT	GG	GG	INTERGENIC			
SNP_6010_A_41504109	NC_021160.1	Ca_Kabuli_Chr01	41504109	GG	AA	AA	INTERGENIC			
SNP_6011_A_41504113	NC_021160.1	Ca_Kabuli_Chr01	41504113	GG	AA	AA	INTERGENIC			
SNP_6012_A_41504309	NC_021160.1	Ca_Kabuli_Chr01	41504309	AA	TT	TT	INTERGENIC			
SNP_6013_A_41504387	NC_021160.1	Ca_Kabuli_Chr01	41504387	TT	CC	CC	INTERGENIC			
SNP_6014_A_41597667	NC_021160.1	Ca_Kabuli_Chr01	41597667	TT	CC	CC	INTERGENIC			
SNP_6015_A_41617666	NC_021160.1	Ca_Kabuli_Chr01	41617666	GG	TT	TT	INTERGENIC			
SNP_6016_A_41672934	NC_021160.1	Ca_Kabuli_Chr01	41672934	AA	CC	CC	INTERGENIC			
SNP_6017_A_41672936	NC_021160.1	Ca_Kabuli_Chr01	41672936	AA	CC	CC	INTERGENIC			
SNP_6019_A_41694808	NC_021160.1	Ca_Kabuli_Chr01	41694808	TT	CC	CC	INTERGENIC			
SNP_6020_A_41694942	NC_021160.1	Ca_Kabuli_Chr01	41694942	GG	TT	TT	INTERGENIC			
SNP_6021_A_41694965	NC_021160.1	Ca_Kabuli_Chr01	41694965	AA	GG	GG	INTERGENIC			
SNP_6022_A_41694968	NC_021160.1	Ca_Kabuli_Chr01	41694968	CC	GG	GG	INTERGENIC			
SNP_6023_A_41694969	NC_021160.1	Ca_Kabuli_Chr01	41694969	CC	TT	TT	INTERGENIC			
SNP_6024_A_41694972	NC_021160.1	Ca_Kabuli_Chr01	41694972	CC	TT	TT	INTERGENIC			
SNP_6025_A_41694997	NC_021160.1	Ca_Kabuli_Chr01	41694997	CC	TT	TT	INTERGENIC			
SNP_6026_A_41695044	NC_021160.1	Ca_Kabuli_Chr01	41695044	GG	AA	AA	INTERGENIC			
SNP_6027_A_41695164	NC_021160.1	Ca_Kabuli_Chr01	41695164	TT	CC	CC	INTERGENIC			
SNP_6028_A_41695348	NC_021160.1	Ca_Kabuli_Chr01	41695348	AA	GG	GG	INTERGENIC			
SNP_6030_A_41695682	NC_021160.1	Ca_Kabuli_Chr01	41695682	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6031_A_41695683	NC_021160.1	Ca_Kabuli_Chr01	41695683	TT	AA	AA	INTERGENIC			
SNP_6032_A_41696840	NC_021160.1	Ca_Kabuli_Chr01	41696840	TT	CC	CC	INTERGENIC			
SNP_6033_A_41697272	NC_021160.1	Ca_Kabuli_Chr01	41697272	GG	TT	TT	INTERGENIC			
SNP_6034_A_41704228	NC_021160.1	Ca_Kabuli_Chr01	41704228	GG	TT	TT	INTERGENIC			
SNP_6035_A_41704268	NC_021160.1	Ca_Kabuli_Chr01	41704268	GG	AA	AA	INTERGENIC			
SNP_6036_A_41704301	NC_021160.1	Ca_Kabuli_Chr01	41704301	TT	GG	GG	INTERGENIC			
SNP_6037_A_41704316	NC_021160.1	Ca_Kabuli_Chr01	41704316	GG	AA	AA	INTERGENIC			
SNP_6038_A_41704385	NC_021160.1	Ca_Kabuli_Chr01	41704385	CC	AA	AA	INTERGENIC			
SNP_6039_A_41704411	NC_021160.1	Ca_Kabuli_Chr01	41704411	AA	GG	GG	INTERGENIC			
SNP_6042_A_41704553	NC_021160.1	Ca_Kabuli_Chr01	41704553	AA	TT	TT	INTERGENIC			
SNP_6043_A_41704603	NC_021160.1	Ca_Kabuli_Chr01	41704603	AA	TT	TT	INTERGENIC			
SNP_6044_A_41704624	NC_021160.1	Ca_Kabuli_Chr01	41704624	TT	AA	AA	INTERGENIC			
SNP_6045_A_41704633	NC_021160.1	Ca_Kabuli_Chr01	41704633	CC	TT	TT	INTERGENIC			
SNP_6046_A_41705237	NC_021160.1	Ca_Kabuli_Chr01	41705237	TT	GG	GG	INTERGENIC			
SNP_6047_A_41705392	NC_021160.1	Ca_Kabuli_Chr01	41705392	CC	TT	TT	INTERGENIC			
SNP_6048_A_41705604	NC_021160.1	Ca_Kabuli_Chr01	41705604	TT	AA	AA	INTERGENIC			
SNP_6050_A_41708687	NC_021160.1	Ca_Kabuli_Chr01	41708687	AA	CC	CC	INTERGENIC			
SNP_6051_A_41708828	NC_021160.1	Ca_Kabuli_Chr01	41708828	GG	AA	AA	INTERGENIC			
SNP_6052_A_41709837	NC_021160.1	Ca_Kabuli_Chr01	41709837	AA	TT	TT	INTERGENIC			
SNP_6053_A_41709855	NC_021160.1	Ca_Kabuli_Chr01	41709855	TT	GG	GG	INTERGENIC			
SNP_6054_A_41712203	NC_021160.1	Ca_Kabuli_Chr01	41712203	GG	AA	AA	DRR	101501741	uncharacterized LOC101501741	
SNP_6055_A_41712529	NC_021160.1	Ca_Kabuli_Chr01	41712529	GG	AA	AA	DRR	101501741	uncharacterized LOC101501741	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6056_A_41712745	NC_021160.1	Ca_Kabuli_Chr01	41712745	GG	TT	TT	DRR	101501741	uncharacterized LOC101501741
SNP_6057_A_41718481	NC_021160.1	Ca_Kabuli_Chr01	41718481	CC	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6058_A_41718553	NC_021160.1	Ca_Kabuli_Chr01	41718553	AA	GG	GG	INTRON	101501741	uncharacterized LOC101501741
SNP_6059_A_41718571	NC_021160.1	Ca_Kabuli_Chr01	41718571	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6060_A_41718619	NC_021160.1	Ca_Kabuli_Chr01	41718619	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6061_A_41718683	NC_021160.1	Ca_Kabuli_Chr01	41718683	CC	GG	GG	INTRON	101501741	uncharacterized LOC101501741
SNP_6062_A_41718744	NC_021160.1	Ca_Kabuli_Chr01	41718744	CC	AA	AA	INTRON	101501741	uncharacterized LOC101501741
SNP_6064_A_41718886	NC_021160.1	Ca_Kabuli_Chr01	41718886	GG	AA	AA	INTRON	101501741	uncharacterized LOC101501741
SNP_6065_A_41718896	NC_021160.1	Ca_Kabuli_Chr01	41718896	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6066_A_41718997	NC_021160.1	Ca_Kabuli_Chr01	41718997	TT	CC	CC	INTRON	101501741	uncharacterized LOC101501741
SNP_6068_A_41721885	NC_021160.1	Ca_Kabuli_Chr01	41721885	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6069_A_41721895	NC_021160.1	Ca_Kabuli_Chr01	41721895	AA	GG	GG	INTRON	101501741	uncharacterized LOC101501741
SNP_6070_A_41721944	NC_021160.1	Ca_Kabuli_Chr01	41721944	TT	GG	GG	INTRON	101501741	uncharacterized LOC101501741
SNP_6071_A_41721981	NC_021160.1	Ca_Kabuli_Chr01	41721981	GG	AA	AA	INTRON	101501741	uncharacterized LOC101501741
SNP_6072_A_41722330	NC_021160.1	Ca_Kabuli_Chr01	41722330	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6073_A_41722360	NC_021160.1	Ca_Kabuli_Chr01	41722360	TT	AA	AA	INTRON	101501741	uncharacterized LOC101501741
SNP_6074_A_41722369	NC_021160.1	Ca_Kabuli_Chr01	41722369	AA	TT	TT	INTRON	101501741	uncharacterized LOC101501741
SNP_6075_A_41722411	NC_021160.1	Ca_Kabuli_Chr01	41722411	TT	AA	AA	INTRON	101501741	uncharacterized LOC101501741
SNP_6076_A_41727867	NC_021160.1	Ca_Kabuli_Chr01	41727867	TT	CC	CC	INTERGENIC		
SNP_6077_A_41727885	NC_021160.1	Ca_Kabuli_Chr01	41727885	AA	CC	CC	INTERGENIC		
SNP_6078_A_41727906	NC_021160.1	Ca_Kabuli_Chr01	41727906	AA	CC	CC	INTERGENIC		
SNP_6079_A_41728074	NC_021160.1	Ca_Kabuli_Chr01	41728074	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6080_A_41735128	NC_021160.1	Ca_Kabuli_Chr01	41735128	CC	TT	TT	DRR	101502067	protein GRIM REAPER-like
SNP_6081_A_41738957	NC_021160.1	Ca_Kabuli_Chr01	41738957	CC	TT	TT	URR	101494412	protein GRIM REAPER-like
SNP_6082_A_41747633	NC_021160.1	Ca_Kabuli_Chr01	41747633	TT	CC	CC	INTERGENIC		
SNP_6083_A_41748103	NC_021160.1	Ca_Kabuli_Chr01	41748103	CC	TT	TT	INTERGENIC		
SNP_6084_A_41801228	NC_021160.1	Ca_Kabuli_Chr01	41801228	CC	TT	TT	INTERGENIC		
SNP_6085_A_41955732	NC_021160.1	Ca_Kabuli_Chr01	41955732	CC	TT	TT	INTERGENIC		
SNP_6086_A_41962214	NC_021160.1	Ca_Kabuli_Chr01	41962214	GG	AA	AA	INTERGENIC		
SNP_6087_A_42021047	NC_021160.1	Ca_Kabuli_Chr01	42021047	TT	AA	AA	INTERGENIC		
SNP_6088_A_42021427	NC_021160.1	Ca_Kabuli_Chr01	42021427	TT	AA	AA	INTERGENIC		
SNP_6089_A_42021460	NC_021160.1	Ca_Kabuli_Chr01	42021460	TT	CC	CC	INTERGENIC		
SNP_6090_A_42086632	NC_021160.1	Ca_Kabuli_Chr01	42086632	AA	TT	TT	INTERGENIC		
SNP_6091_A_42098222	NC_021160.1	Ca_Kabuli_Chr01	42098222	AA	TT	TT	INTERGENIC		
SNP_6092_A_42102351	NC_021160.1	Ca_Kabuli_Chr01	42102351	AA	TT	TT	INTERGENIC		
SNP_6093_A_42167043	NC_021160.1	Ca_Kabuli_Chr01	42167043	TT	CC	CC	INTERGENIC		
SNP_6094_A_42203543	NC_021160.1	Ca_Kabuli_Chr01	42203543	CC	TT	TT	INTERGENIC		
SNP_6095_A_42203772	NC_021160.1	Ca_Kabuli_Chr01	42203772	CC	TT	TT	INTERGENIC		
SNP_6096_A_42203780	NC_021160.1	Ca_Kabuli_Chr01	42203780	CC	TT	TT	INTERGENIC		
SNP_6097_A_42206131	NC_021160.1	Ca_Kabuli_Chr01	42206131	TT	CC	CC	INTERGENIC		
SNP_6098_A_42206158	NC_021160.1	Ca_Kabuli_Chr01	42206158	GG	CC	CC	INTERGENIC		
SNP_6099_A_42206163	NC_021160.1	Ca_Kabuli_Chr01	42206163	AA	TT	TT	INTERGENIC		
SNP_6100_A_42206182	NC_021160.1	Ca_Kabuli_Chr01	42206182	CC	GG	GG	INTERGENIC		
SNP_6101_A_42206185	NC_021160.1	Ca_Kabuli_Chr01	42206185	TT	AA	AA	INTERGENIC		

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SNP_6102_A_42206796	NC_021160.1	Ca_Kabuli_Chr01	42206796	CC	AA	AA	INTERGENIC			
SNP_6104_A_42239519	NC_021160.1	Ca_Kabuli_Chr01	42239519	AA	GG	GG	INTERGENIC			
SNP_6105_A_42243850	NC_021160.1	Ca_Kabuli_Chr01	42243850	GG	AA	AA	INTERGENIC			
SNP_6106_A_42244193	NC_021160.1	Ca_Kabuli_Chr01	42244193	TT	CC	CC	INTERGENIC			
SNP_6107_A_42244244	NC_021160.1	Ca_Kabuli_Chr01	42244244	CC	TT	TT	INTERGENIC			
SNP_6108_A_42244275	NC_021160.1	Ca_Kabuli_Chr01	42244275	TT	GG	GG	INTERGENIC			
SNP_6109_A_42244312	NC_021160.1	Ca_Kabuli_Chr01	42244312	TT	AA	AA	INTERGENIC			
SNP_6110_A_42244339	NC_021160.1	Ca_Kabuli_Chr01	42244339	TT	CC	CC	INTERGENIC			
SNP_6111_A_42244347	NC_021160.1	Ca_Kabuli_Chr01	42244347	GG	TT	TT	INTERGENIC			
SNP_6112_A_42244358	NC_021160.1	Ca_Kabuli_Chr01	42244358	AA	TT	TT	INTERGENIC			
SNP_6113_A_42244442	NC_021160.1	Ca_Kabuli_Chr01	42244442	TT	CC	CC	INTERGENIC			
SNP_6114_A_42312884	NC_021160.1	Ca_Kabuli_Chr01	42312884	GG	AA	AA	INTERGENIC			
SNP_6115_A_42332407	NC_021160.1	Ca_Kabuli_Chr01	42332407	AA	GG	GG	INTERGENIC			
SNP_6116_A_42332483	NC_021160.1	Ca_Kabuli_Chr01	42332483	TT	AA	AA	INTERGENIC			
SNP_6117_A_42332579	NC_021160.1	Ca_Kabuli_Chr01	42332579	TT	CC	CC	INTERGENIC			
SNP_6118_A_42350962	NC_021160.1	Ca_Kabuli_Chr01	42350962	GG	TT	TT	INTERGENIC			
SNP_6119_A_42377341	NC_021160.1	Ca_Kabuli_Chr01	42377341	AA	TT	TT	INTERGENIC			
SNP_6120_A_42379521	NC_021160.1	Ca_Kabuli_Chr01	42379521	AA	CC	CC	INTERGENIC			
SNP_6121_A_42405362	NC_021160.1	Ca_Kabuli_Chr01	42405362	GG	AA	AA	INTERGENIC			
SNP_6122_A_42405386	NC_021160.1	Ca_Kabuli_Chr01	42405386	TT	CC	CC	INTERGENIC			
SNP_6123_A_42411108	NC_021160.1	Ca_Kabuli_Chr01	42411108	AA	CC	CC	INTERGENIC			
SNP_6124_A_42411139	NC_021160.1	Ca_Kabuli_Chr01	42411139	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6125_A_42411155	NC_021160.1	Ca_Kabuli_Chr01	42411155	CC	TT	TT	INTERGENIC		
SNP_6126_A_42411173	NC_021160.1	Ca_Kabuli_Chr01	42411173	GG	AA	AA	INTERGENIC		
SNP_6127_A_42411186	NC_021160.1	Ca_Kabuli_Chr01	42411186	AA	CC	CC	INTERGENIC		
SNP_6128_A_42411196	NC_021160.1	Ca_Kabuli_Chr01	42411196	AA	GG	GG	INTERGENIC		
SNP_6129_A_42411235	NC_021160.1	Ca_Kabuli_Chr01	42411235	AA	CC	CC	INTERGENIC		
SNP_6130_A_42415656	NC_021160.1	Ca_Kabuli_Chr01	42415656	AA	CC	CC	INTERGENIC		
SNP_6132_A_42530415	NC_021160.1	Ca_Kabuli_Chr01	42530415	TT	CC	CC	INTERGENIC		
SNP_6133_A_42550438	NC_021160.1	Ca_Kabuli_Chr01	42550438	TT	CC	CC	INTERGENIC		
SNP_6134_A_42550527	NC_021160.1	Ca_Kabuli_Chr01	42550527	AA	GG	GG	INTERGENIC		
SNP_6135_A_42550717	NC_021160.1	Ca_Kabuli_Chr01	42550717	TT	CC	CC	INTERGENIC		
SNP_6136_A_42572593	NC_021160.1	Ca_Kabuli_Chr01	42572593	GG	AA	AA	INTERGENIC		
SNP_6137_A_42595961	NC_021160.1	Ca_Kabuli_Chr01	42595961	TT	AA	AA	INTRON	101509455	uncharacterized LOC101509455
SNP_6138_A_42615257	NC_021160.1	Ca_Kabuli_Chr01	42615257	AA	GG	GG	URR	101510097	transcription factor bHLH52-like
SNP_6139_A_42615258	NC_021160.1	Ca_Kabuli_Chr01	42615258	AA	CC	CC	URR	101510097	transcription factor bHLH52-like
SNP_6140_A_42635991	NC_021160.1	Ca_Kabuli_Chr01	42635991	TT	CC	CC	INTERGENIC		
SNP_6141_A_42635995	NC_021160.1	Ca_Kabuli_Chr01	42635995	TT	CC	AA	INTERGENIC		
SNP_6142_A_42636014	NC_021160.1	Ca_Kabuli_Chr01	42636014	CC	TT	TT	INTERGENIC		
SNP_6143_A_42636017	NC_021160.1	Ca_Kabuli_Chr01	42636017	TT	AA	AA	INTERGENIC		
SNP_6144_A_42641920	NC_021160.1	Ca_Kabuli_Chr01	42641920	GG	AA	AA	INTERGENIC		
SNP_6145_A_42721203	NC_021160.1	Ca_Kabuli_Chr01	42721203	AA	GG	GG	INTERGENIC		
SNP_6146_A_42749171	NC_021160.1	Ca_Kabuli_Chr01	42749171	GG	AA	AA	INTRON	101510750	Unknown function
SNP_6147_A_42793548	NC_021160.1	Ca_Kabuli_Chr01	42793548	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6148_A_42793576	NC_021160.1	Ca_Kabuli_Chr01	42793576	TT	CC	CC	INTERGENIC		
SNP_6149_A_42793885	NC_021160.1	Ca_Kabuli_Chr01	42793885	AA	TT	TT	INTERGENIC		
SNP_6150_A_42793937	NC_021160.1	Ca_Kabuli_Chr01	42793937	TT	CC	CC	INTERGENIC		
SNP_6151_A_42880940	NC_021160.1	Ca_Kabuli_Chr01	42880940	AA	GG	GG	DRR	101488912	uncharacterized LOC101488912
SNP_6152_A_42915868	NC_021160.1	Ca_Kabuli_Chr01	42915868	AA	GG	GG	INTERGENIC		
SNP_6153_A_42980037	NC_021160.1	Ca_Kabuli_Chr01	42980037	GG	CC	CC	INTERGENIC		
SNP_6154_A_42980750	NC_021160.1	Ca_Kabuli_Chr01	42980750	CC	TT	TT	INTERGENIC		
SNP_6155_A_43050329	NC_021160.1	Ca_Kabuli_Chr01	43050329	TT	CC	CC	INTERGENIC		
SNP_6156_A_43065715	NC_021160.1	Ca_Kabuli_Chr01	43065715	GG	AA	AA	INTERGENIC		
SNP_6157_A_43065724	NC_021160.1	Ca_Kabuli_Chr01	43065724	CC	GG	GG	INTERGENIC		
SNP_6158_A_43065746	NC_021160.1	Ca_Kabuli_Chr01	43065746	AA	GG	GG	INTERGENIC		
SNP_6159_A_43065779	NC_021160.1	Ca_Kabuli_Chr01	43065779	AA	GG	GG	INTERGENIC		
SNP_6160_A_43065792	NC_021160.1	Ca_Kabuli_Chr01	43065792	GG	CC	CC	INTERGENIC		
SNP_6161_A_43065818	NC_021160.1	Ca_Kabuli_Chr01	43065818	AA	TT	TT	INTERGENIC		
SNP_6162_A_43066111	NC_021160.1	Ca_Kabuli_Chr01	43066111	AA	GG	GG	INTERGENIC		
SNP_6163_A_43066179	NC_021160.1	Ca_Kabuli_Chr01	43066179	TT	GG	GG	INTERGENIC		
SNP_6164_A_43066267	NC_021160.1	Ca_Kabuli_Chr01	43066267	TT	CC	CC	INTERGENIC		
SNP_6166_A_43123535	NC_021160.1	Ca_Kabuli_Chr01	43123535	TT	CC	CC	INTERGENIC		
SNP_6167_A_43222523	NC_021160.1	Ca_Kabuli_Chr01	43222523	TT	CC	CC	INTERGENIC		
SNP_6168_A_43225898	NC_021160.1	Ca_Kabuli_Chr01	43225898	CC	TT	TT	INTERGENIC		
SNP_6169_A_43255625	NC_021160.1	Ca_Kabuli_Chr01	43255625	CC	AA	AA	INTERGENIC		
SNP_6170_A_43300400	NC_021160.1	Ca_Kabuli_Chr01	43300400	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6171_A_43300876	NC_021160.1	Ca_Kabuli_Chr01	43300876	AA	GG	GG	INTERGENIC		
SNP_6173_A_43393150	NC_021160.1	Ca_Kabuli_Chr01	43393150	CC	AA	AA	INTERGENIC		
SNP_6174_A_43409423	NC_021160.1	Ca_Kabuli_Chr01	43409423	GG	TT	TT	INTERGENIC		
SNP_6175_A_43411837	NC_021160.1	Ca_Kabuli_Chr01	43411837	AA	TT	TT	INTERGENIC		
SNP_6176_A_43411855	NC_021160.1	Ca_Kabuli_Chr01	43411855	TT	CC	CC	INTERGENIC		
SNP_6177_A_43430370	NC_021160.1	Ca_Kabuli_Chr01	43430370	AA	GG	GG	URR	101492597	LOB domain-containing protein 4
SNP_6178_A_43430695	NC_021160.1	Ca_Kabuli_Chr01	43430695	TT	CC	CC	URR	101492597	LOB domain-containing protein 4
SNP_6179_A_43438272	NC_021160.1	Ca_Kabuli_Chr01	43438272	GG	AA	AA	INTERGENIC		
SNP_6180_A_43438378	NC_021160.1	Ca_Kabuli_Chr01	43438378	GG	AA	AA	INTERGENIC		
SNP_6181_A_43438629	NC_021160.1	Ca_Kabuli_Chr01	43438629	TT	CC	CC	INTERGENIC		
SNP_6182_A_43440899	NC_021160.1	Ca_Kabuli_Chr01	43440899	GG	AA	AA	INTERGENIC		
SNP_6184_A_43474265	NC_021160.1	Ca_Kabuli_Chr01	43474265	GG	AA	AA	INTERGENIC		
SNP_6185_A_43474269	NC_021160.1	Ca_Kabuli_Chr01	43474269	AA	GG	GG	INTERGENIC		
SNP_6186_A_43489680	NC_021160.1	Ca_Kabuli_Chr01	43489680	GG	AA	AA	INTERGENIC		
SNP_6187_A_43569231	NC_021160.1	Ca_Kabuli_Chr01	43569231	AA	CC	CC	INTERGENIC		
SNP_6188_A_43569283	NC_021160.1	Ca_Kabuli_Chr01	43569283	AA	GG	GG	INTERGENIC		
SNP_6189_A_43569311	NC_021160.1	Ca_Kabuli_Chr01	43569311	AA	TT	TT	INTERGENIC		
SNP_6190_A_43610374	NC_021160.1	Ca_Kabuli_Chr01	43610374	AA	CC	CC	INTERGENIC		
SNP_6191_A_43610378	NC_021160.1	Ca_Kabuli_Chr01	43610378	TT	GG	GG	INTERGENIC		
SNP_6193_A_43690265	NC_021160.1	Ca_Kabuli_Chr01	43690265	CC	TT	TT	INTERGENIC		
SNP_6194_A_43690272	NC_021160.1	Ca_Kabuli_Chr01	43690272	CC	TT	TT	INTERGENIC		
SNP_6195_A_43690281	NC_021160.1	Ca_Kabuli_Chr01	43690281	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6196_A_43715207	NC_021160.1	Ca_Kabuli_Chr01	43715207	AA	GG	GG	INTERGENIC		
SNP_6197_A_43774895	NC_021160.1	Ca_Kabuli_Chr01	43774895	AA	GG	GG	DRR	101489025	uncharacterized LOC101489025
SNP_6198_A_43792565	NC_021160.1	Ca_Kabuli_Chr01	43792565	GG	AA	AA	INTERGENIC		
SNP_6199_A_43806423	NC_021160.1	Ca_Kabuli_Chr01	43806423	CC	TT	TT	URR	101501643	BTB/POZ domain-containing protein At1g04390
SNP_6200_A_43826357	NC_021160.1	Ca_Kabuli_Chr01	43826357	TT	CC	CC	URR	101490654	glutathione S-transferase F10-like
SNP_6201_A_43830031	NC_021160.1	Ca_Kabuli_Chr01	43830031	GG	AA	AA	INTERGENIC		
SNP_6202_A_43834226	NC_021160.1	Ca_Kabuli_Chr01	43834226	CC	AA	AA	INTERGENIC		
SNP_6204_A_43896328	NC_021160.1	Ca_Kabuli_Chr01	43896328	TT	CC	CC	URR	101503252	rho GTPase-activating protein gacF
SNP_6205_A_43896329	NC_021160.1	Ca_Kabuli_Chr01	43896329	AA	GG	GG	URR	101503252	rho GTPase-activating protein gacF
SNP_6206_A_43903801	NC_021160.1	Ca_Kabuli_Chr01	43903801	CC	TT	TT	INTERGENIC		
SNP_6207_A_43903806	NC_021160.1	Ca_Kabuli_Chr01	43903806	GG	AA	AA	INTERGENIC		
SNP_6208_A_43903927	NC_021160.1	Ca_Kabuli_Chr01	43903927	TT	CC	CC	INTERGENIC		
SNP_6209_A_43907347	NC_021160.1	Ca_Kabuli_Chr01	43907347	AA	GG	GG	INTERGENIC		
SNP_6210_A_43920712	NC_021160.1	Ca_Kabuli_Chr01	43920712	AA	GG	GG	INTRON	101503568	protein RRNAD1
SNP_6211_A_43975572	NC_021160.1	Ca_Kabuli_Chr01	43975572	TT	CC	CC	INTERGENIC		
SNP_6212_A_44050708	NC_021160.1	Ca_Kabuli_Chr01	44050708	CC	TT	TT	INTERGENIC		
SNP_6214_A_44186152	NC_021160.1	Ca_Kabuli_Chr01	44186152	TT	CC	CC	INTERGENIC		
SNP_6215_A_44186159	NC_021160.1	Ca_Kabuli_Chr01	44186159	GG	AA	AA	INTERGENIC		
SNP_6216_A_44186219	NC_021160.1	Ca_Kabuli_Chr01	44186219	TT	AA	AA	INTERGENIC		
SNP_6217_A_44186222	NC_021160.1	Ca_Kabuli_Chr01	44186222	TT	GG	GG	INTERGENIC		
SNP_6218_A_44187293	NC_021160.1	Ca_Kabuli_Chr01	44187293	CC	AA	AA	INTERGENIC		
SNP_6219_A_44187342	NC_021160.1	Ca_Kabuli_Chr01	44187342	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6220_A_44187597	NC_021160.1	Ca_Kabuli_Chr01	44187597	CC	AA	AA	INTERGENIC			
SNP_6221_A_44190155	NC_021160.1	Ca_Kabuli_Chr01	44190155	GG	TT	TT	INTERGENIC			
SNP_6222_A_44204318	NC_021160.1	Ca_Kabuli_Chr01	44204318	TT	CC	CC	INTERGENIC			
SNP_6223_A_44204372	NC_021160.1	Ca_Kabuli_Chr01	44204372	TT	CC	CC	INTERGENIC			
SNP_6224_A_44205722	NC_021160.1	Ca_Kabuli_Chr01	44205722	GG	AA	AA	INTERGENIC			
SNP_6225_A_44205954	NC_021160.1	Ca_Kabuli_Chr01	44205954	AA	GG	GG	INTERGENIC			
SNP_6226_A_44205988	NC_021160.1	Ca_Kabuli_Chr01	44205988	CC	TT	TT	INTERGENIC			
SNP_6227_A_44206007	NC_021160.1	Ca_Kabuli_Chr01	44206007	AA	TT	TT	INTERGENIC			
SNP_6229_A_44206056	NC_021160.1	Ca_Kabuli_Chr01	44206056	AA	TT	TT	INTERGENIC			
SNP_6230_A_44206057	NC_021160.1	Ca_Kabuli_Chr01	44206057	TT	CC	CC	INTERGENIC			
SNP_6231_A_44206965	NC_021160.1	Ca_Kabuli_Chr01	44206965	AA	GG	GG	INTERGENIC			
SNP_6232_A_44207095	NC_021160.1	Ca_Kabuli_Chr01	44207095	AA	TT	TT	INTERGENIC			
SNP_6233_A_44207345	NC_021160.1	Ca_Kabuli_Chr01	44207345	AA	TT	TT	INTERGENIC			
SNP_6234_A_44207557	NC_021160.1	Ca_Kabuli_Chr01	44207557	AA	TT	TT	INTERGENIC			
SNP_6235_A_44209494	NC_021160.1	Ca_Kabuli_Chr01	44209494	GG	CC	CC	INTERGENIC			
SNP_6236_A_44209551	NC_021160.1	Ca_Kabuli_Chr01	44209551	TT	CC	CC	INTERGENIC			
SNP_6238_A_44267811	NC_021160.1	Ca_Kabuli_Chr01	44267811	CC	TT	TT	INTERGENIC			
SNP_6239_A_44268647	NC_021160.1	Ca_Kabuli_Chr01	44268647	AA	GG	GG	INTERGENIC			
SNP_6240_A_44275936	NC_021160.1	Ca_Kabuli_Chr01	44275936	TT	GG	GG	INTERGENIC			
SNP_6241_A_44275972	NC_021160.1	Ca_Kabuli_Chr01	44275972	AA	CC	CC	INTERGENIC			
SNP_6242_A_44276332	NC_021160.1	Ca_Kabuli_Chr01	44276332	CC	TT	TT	INTERGENIC			
SNP_6244_A_44369616	NC_021160.1	Ca_Kabuli_Chr01	44369616	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6245_A_44371103	NC_021160.1	Ca_Kabuli_Chr01	44371103	TT	CC	CC	INTERGENIC			
SNP_6246_A_44374524	NC_021160.1	Ca_Kabuli_Chr01	44374524	AA	CC	CC	INTERGENIC			
SNP_6247_A_44374687	NC_021160.1	Ca_Kabuli_Chr01	44374687	TT	CC	CC	INTERGENIC			
SNP_6248_A_44374697	NC_021160.1	Ca_Kabuli_Chr01	44374697	TT	AA	AA	INTERGENIC			
SNP_6249_A_44374702	NC_021160.1	Ca_Kabuli_Chr01	44374702	CC	TT	TT	INTERGENIC			
SNP_6250_A_44376340	NC_021160.1	Ca_Kabuli_Chr01	44376340	CC	GG	GG	INTERGENIC			
SNP_6251_A_44376356	NC_021160.1	Ca_Kabuli_Chr01	44376356	AA	GG	GG	INTERGENIC			
SNP_6252_A_44376380	NC_021160.1	Ca_Kabuli_Chr01	44376380	GG	AA	AA	INTERGENIC			
SNP_6253_A_44376383	NC_021160.1	Ca_Kabuli_Chr01	44376383	AA	GG	GG	INTERGENIC			
SNP_6254_A_44376431	NC_021160.1	Ca_Kabuli_Chr01	44376431	AA	CC	CC	INTERGENIC			
SNP_6255_A_44376461	NC_021160.1	Ca_Kabuli_Chr01	44376461	TT	CC	CC	INTERGENIC			
SNP_6256_A_44376467	NC_021160.1	Ca_Kabuli_Chr01	44376467	TT	CC	CC	INTERGENIC			
SNP_6257_A_44376488	NC_021160.1	Ca_Kabuli_Chr01	44376488	CC	TT	TT	INTERGENIC			
SNP_6258_A_44376506	NC_021160.1	Ca_Kabuli_Chr01	44376506	TT	CC	CC	INTERGENIC			
SNP_6259_A_44376512	NC_021160.1	Ca_Kabuli_Chr01	44376512	GG	AA	AA	INTERGENIC			
SNP_6260_A_44376690	NC_021160.1	Ca_Kabuli_Chr01	44376690	AA	GG	GG	INTERGENIC			
SNP_6261_A_44384701	NC_021160.1	Ca_Kabuli_Chr01	44384701	CC	TT	TT	INTERGENIC			
SNP_6262_A_44384708	NC_021160.1	Ca_Kabuli_Chr01	44384708	TT	AA	AA	INTERGENIC			
SNP_6263_A_44385027	NC_021160.1	Ca_Kabuli_Chr01	44385027	AA	TT	TT	INTERGENIC			
SNP_6264_A_44393372	NC_021160.1	Ca_Kabuli_Chr01	44393372	AA	CC	CC	INTERGENIC			
SNP_6265_A_44403045	NC_021160.1	Ca_Kabuli_Chr01	44403045	TT	CC	CC	INTERGENIC			
SNP_6266_A_44403376	NC_021160.1	Ca_Kabuli_Chr01	44403376	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6267_A_44427211	NC_021160.1	Ca_Kabuli_Chr01	44427211	CC	AA	AA	INTERGENIC		
SNP_6268_A_44427725	NC_021160.1	Ca_Kabuli_Chr01	44427725	GG	AA	AA	INTERGENIC		
SNP_6269_A_44427728	NC_021160.1	Ca_Kabuli_Chr01	44427728	GG	AA	AA	INTERGENIC		
SNP_6270_A_44428187	NC_021160.1	Ca_Kabuli_Chr01	44428187	AA	GG	GG	INTERGENIC		
SNP_6271_A_44428567	NC_021160.1	Ca_Kabuli_Chr01	44428567	TT	GG	GG	INTERGENIC		
SNP_6273_A_44467579	NC_021160.1	Ca_Kabuli_Chr01	44467579	TT	CC	CC	INTERGENIC		
SNP_6274_A_44468715	NC_021160.1	Ca_Kabuli_Chr01	44468715	TT	GG	GG	INTERGENIC		
SNP_6275_A_44503554	NC_021160.1	Ca_Kabuli_Chr01	44503554	AA	TT	TT	INTERGENIC		
SNP_6276_A_44506293	NC_021160.1	Ca_Kabuli_Chr01	44506293	TT	CC	CC	INTERGENIC		
SNP_6277_A_44537559	NC_021160.1	Ca_Kabuli_Chr01	44537559	AA	GG	GG	URR	101495929	uncharacterized LOC101495929
SNP_6278_A_44537587	NC_021160.1	Ca_Kabuli_Chr01	44537587	TT	AA	AA	URR	101495929	uncharacterized LOC101495929
SNP_6279_A_44537599	NC_021160.1	Ca_Kabuli_Chr01	44537599	CC	GG	GG	URR	101495929	uncharacterized LOC101495929
SNP_6280_A_44537611	NC_021160.1	Ca_Kabuli_Chr01	44537611	GG	AA	AA	URR	101495929	uncharacterized LOC101495929
SNP_6281_A_44537671	NC_021160.1	Ca_Kabuli_Chr01	44537671	TT	CC	CC	URR	101495929	uncharacterized LOC101495929
SNP_6282_A_44537679	NC_021160.1	Ca_Kabuli_Chr01	44537679	AA	GG	GG	URR	101495929	uncharacterized LOC101495929
SNP_6283_A_44537704	NC_021160.1	Ca_Kabuli_Chr01	44537704	TT	CC	CC	URR	101495929	uncharacterized LOC101495929
SNP_6284_A_44537714	NC_021160.1	Ca_Kabuli_Chr01	44537714	CC	AA	AA	URR	101495929	uncharacterized LOC101495929
SNP_6285_A_44537725	NC_021160.1	Ca_Kabuli_Chr01	44537725	GG	AA	AA	URR	101495929	uncharacterized LOC101495929
SNP_6286_A_44537791	NC_021160.1	Ca_Kabuli_Chr01	44537791	TT	CC	CC	URR	101495929	uncharacterized LOC101495929
SNP_6287_A_44543353	NC_021160.1	Ca_Kabuli_Chr01	44543353	TT	CC	CC	INTERGENIC		
SNP_6288_A_44560144	NC_021160.1	Ca_Kabuli_Chr01	44560144	CC	TT	TT	INTERGENIC		
SNP_6289_A_44588933	NC_021160.1	Ca_Kabuli_Chr01	44588933	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6290_A_44588947	NC_021160.1	Ca_Kabuli_Chr01	44588947	TT	CC	CC	INTERGENIC			
SNP_6291_A_44588951	NC_021160.1	Ca_Kabuli_Chr01	44588951	AA	CC	CC	INTERGENIC			
SNP_6292_A_44588986	NC_021160.1	Ca_Kabuli_Chr01	44588986	AA	GG	GG	INTERGENIC			
SNP_6293_A_44588988	NC_021160.1	Ca_Kabuli_Chr01	44588988	CC	TT	TT	INTERGENIC			
SNP_6294_A_44589027	NC_021160.1	Ca_Kabuli_Chr01	44589027	TT	GG	GG	INTERGENIC			
SNP_6295_A_44592279	NC_021160.1	Ca_Kabuli_Chr01	44592279	GG	AA	AA	INTERGENIC			
SNP_6296_A_44592395	NC_021160.1	Ca_Kabuli_Chr01	44592395	AA	CC	CC	INTERGENIC			
SNP_6297_A_44592398	NC_021160.1	Ca_Kabuli_Chr01	44592398	AA	CC	CC	INTERGENIC			
SNP_6298_A_44592416	NC_021160.1	Ca_Kabuli_Chr01	44592416	TT	GG	GG	INTERGENIC			
SNP_6299_A_44592476	NC_021160.1	Ca_Kabuli_Chr01	44592476	GG	AA	AA	INTERGENIC			
SNP_6301_A_44592562	NC_021160.1	Ca_Kabuli_Chr01	44592562	AA	GG	GG	INTERGENIC			
SNP_6302_A_44592563	NC_021160.1	Ca_Kabuli_Chr01	44592563	AA	GG	GG	INTERGENIC			
SNP_6303_A_44592574	NC_021160.1	Ca_Kabuli_Chr01	44592574	CC	AA	AA	INTERGENIC			
SNP_6305_A_44592606	NC_021160.1	Ca_Kabuli_Chr01	44592606	TT	CC	CC	INTERGENIC			
SNP_6306_A_44592626	NC_021160.1	Ca_Kabuli_Chr01	44592626	TT	CC	CC	INTERGENIC			
SNP_6307_A_44592641	NC_021160.1	Ca_Kabuli_Chr01	44592641	GG	AA	AA	INTERGENIC			
SNP_6308_A_44592660	NC_021160.1	Ca_Kabuli_Chr01	44592660	TT	CC	CC	INTERGENIC			
SNP_6309_A_44592673	NC_021160.1	Ca_Kabuli_Chr01	44592673	AA	GG	GG	INTERGENIC			
SNP_6310_A_44592807	NC_021160.1	Ca_Kabuli_Chr01	44592807	CC	TT	TT	INTERGENIC			
SNP_6311_A_44649226	NC_021160.1	Ca_Kabuli_Chr01	44649226	GG	AA	AA	INTERGENIC			
SNP_6312_A_44650041	NC_021160.1	Ca_Kabuli_Chr01	44650041	TT	GG	GG	INTERGENIC			
SNP_6313_A_44650125	NC_021160.1	Ca_Kabuli_Chr01	44650125	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6315_A_44650377	NC_021160.1	Ca_Kabuli_Chr01	44650377	CC	TT	TT	INTERGENIC			
SNP_6316_A_44650459	NC_021160.1	Ca_Kabuli_Chr01	44650459	GG	CC	CC	INTERGENIC			
SNP_6317_A_44650756	NC_021160.1	Ca_Kabuli_Chr01	44650756	AA	CC	CC	INTERGENIC			
SNP_6318_A_44650825	NC_021160.1	Ca_Kabuli_Chr01	44650825	AA	GG	GG	INTERGENIC			
SNP_6319_A_44650855	NC_021160.1	Ca_Kabuli_Chr01	44650855	CC	TT	TT	INTERGENIC			
SNP_6320_A_44770448	NC_021160.1	Ca_Kabuli_Chr01	44770448	TT	GG	GG	INTERGENIC			
SNP_6322_A_44778653	NC_021160.1	Ca_Kabuli_Chr01	44778653	AA	CC	CC	INTERGENIC			
SNP_6323_A_44784003	NC_021160.1	Ca_Kabuli_Chr01	44784003	CC	TT	TT	INTERGENIC			
SNP_6324_A_44785467	NC_021160.1	Ca_Kabuli_Chr01	44785467	CC	AA	AA	INTERGENIC			
SNP_6325_A_44786318	NC_021160.1	Ca_Kabuli_Chr01	44786318	GG	TT	TT	INTERGENIC			
SNP_6326_A_44787874	NC_021160.1	Ca_Kabuli_Chr01	44787874	GG	TT	TT	INTERGENIC			
SNP_6327_A_44822591	NC_021160.1	Ca_Kabuli_Chr01	44822591	GG	CC	CC	INTERGENIC			
SNP_6328_A_44824726	NC_021160.1	Ca_Kabuli_Chr01	44824726	TT	AA	AA	INTERGENIC			
SNP_6329_A_44847075	NC_021160.1	Ca_Kabuli_Chr01	44847075	CC	TT	TT	INTERGENIC			
SNP_6331_A_44847118	NC_021160.1	Ca_Kabuli_Chr01	44847118	TT	AA	AA	INTERGENIC			
SNP_6332_A_44847153	NC_021160.1	Ca_Kabuli_Chr01	44847153	TT	AA	AA	INTERGENIC			
SNP_6333_A_44847154	NC_021160.1	Ca_Kabuli_Chr01	44847154	TT	AA	AA	INTERGENIC			
SNP_6334_A_44847222	NC_021160.1	Ca_Kabuli_Chr01	44847222	CC	AA	AA	INTERGENIC			
SNP_6336_A_44847307	NC_021160.1	Ca_Kabuli_Chr01	44847307	TT	CC	CC	INTERGENIC			
SNP_6338_A_44847540	NC_021160.1	Ca_Kabuli_Chr01	44847540	AA	CC	CC	INTERGENIC			
SNP_6339_A_44848477	NC_021160.1	Ca_Kabuli_Chr01	44848477	CC	TT	TT	INTERGENIC			
SNP_6340_A_44848538	NC_021160.1	Ca_Kabuli_Chr01	44848538	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6341_A_44848563	NC_021160.1	Ca_Kabuli_Chr01	44848563	CC	TT	TT	INTERGENIC		
SNP_6342_A_44852882	NC_021160.1	Ca_Kabuli_Chr01	44852882	GG	CC	CC	INTERGENIC		
SNP_6343_A_44852912	NC_021160.1	Ca_Kabuli_Chr01	44852912	GG	AA	AA	INTERGENIC		
SNP_6345_A_44921633	NC_021160.1	Ca_Kabuli_Chr01	44921633	CC	TT	TT	INTERGENIC		
SNP_6346_A_44921666	NC_021160.1	Ca_Kabuli_Chr01	44921666	TT	CC	CC	INTERGENIC		
SNP_6347_A_44925115	NC_021160.1	Ca_Kabuli_Chr01	44925115	GG	AA	AA	INTERGENIC		
SNP_6350_A_45057840	NC_021160.1	Ca_Kabuli_Chr01	45057840	GG	AA	AA	INTERGENIC		
SNP_6351_A_45057853	NC_021160.1	Ca_Kabuli_Chr01	45057853	GG	TT	TT	INTERGENIC		
SNP_6352_A_45058032	NC_021160.1	Ca_Kabuli_Chr01	45058032	AA	GG	GG	INTERGENIC		
SNP_6354_A_45058373	NC_021160.1	Ca_Kabuli_Chr01	45058373	TT	CC	CC	INTERGENIC		
SNP_6355_A_45058381	NC_021160.1	Ca_Kabuli_Chr01	45058381	TT	GG	GG	INTERGENIC		
SNP_6356_A_45058454	NC_021160.1	Ca_Kabuli_Chr01	45058454	GG	AA	AA	INTERGENIC		
SNP_6357_A_45090520	NC_021160.1	Ca_Kabuli_Chr01	45090520	CC	TT	TT	URR	101508176	uncharacterized protein At2g33490-like
SNP_6359_A_45126382	NC_021160.1	Ca_Kabuli_Chr01	45126382	CC	TT	TT	INTERGENIC		
SNP_6360_A_45169375	NC_021160.1	Ca_Kabuli_Chr01	45169375	CC	TT	TT	INTERGENIC		
SNP_6361_A_45231878	NC_021160.1	Ca_Kabuli_Chr01	45231878	TT	GG	GG	DRR	101511596	Unknown function
SNP_6362_A_45232277	NC_021160.1	Ca_Kabuli_Chr01	45232277	CC	GG	GG	DRR	101511596	Unknown function
SNP_6363_A_45232327	NC_021160.1	Ca_Kabuli_Chr01	45232327	AA	GG	GG	DRR	101511596	Unknown function
SNP_6364_A_45241677	NC_021160.1	Ca_Kabuli_Chr01	45241677	CC	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_6365_A_45241764	NC_021160.1	Ca_Kabuli_Chr01	45241764	AA	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_6366_A_45241791	NC_021160.1	Ca_Kabuli_Chr01	45241791	TT	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_6368_A_45242303	NC_021160.1	Ca_Kabuli_Chr01	45242303	TT	GG	GG	URR	101512582	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6369_A_45242478	NC_021160.1	Ca_Kabuli_Chr01	45242478	CC	TT	TT	URR	101512582	Unknown function
SNP_6370_A_45243778	NC_021160.1	Ca_Kabuli_Chr01	45243778	AA	CC	CC	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6372_A_45243808	NC_021160.1	Ca_Kabuli_Chr01	45243808	GG	CC	CC	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6373_A_45243814	NC_021160.1	Ca_Kabuli_Chr01	45243814	GG	CC	CC	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6374_A_45243855	NC_021160.1	Ca_Kabuli_Chr01	45243855	TT	CC	CC	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6375_A_45244149	NC_021160.1	Ca_Kabuli_Chr01	45244149	CC	TT	TT	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6376_A_45244166	NC_021160.1	Ca_Kabuli_Chr01	45244166	TT	CC	CC	DRR	101513217	putative protein TIC 214 N-terminal part
SNP_6378_A_45265524	NC_021160.1	Ca_Kabuli_Chr01	45265524	TT	AA	AA	INTERGENIC		
SNP_6379_A_45265546	NC_021160.1	Ca_Kabuli_Chr01	45265546	CC	TT	TT	INTERGENIC		
SNP_6380_A_45265548	NC_021160.1	Ca_Kabuli_Chr01	45265548	CC	TT	TT	INTERGENIC		
SNP_6381_A_45267181	NC_021160.1	Ca_Kabuli_Chr01	45267181	GG	AA	AA	INTERGENIC		
SNP_6382_A_45298883	NC_021160.1	Ca_Kabuli_Chr01	45298883	TT	CC	CC	INTERGENIC		
SNP_6383_A_45332478	NC_021160.1	Ca_Kabuli_Chr01	45332478	GG	TT	TT	INTERGENIC		
SNP_6384_A_45332489	NC_021160.1	Ca_Kabuli_Chr01	45332489	TT	AA	AA	INTERGENIC		
SNP_6385_A_45332531	NC_021160.1	Ca_Kabuli_Chr01	45332531	AA	GG	GG	INTERGENIC		
SNP_6386_A_45332532	NC_021160.1	Ca_Kabuli_Chr01	45332532	TT	GG	GG	INTERGENIC		
SNP_6387_A_45332635	NC_021160.1	Ca_Kabuli_Chr01	45332635	AA	CC	CC	INTERGENIC		
SNP_6388_A_45332718	NC_021160.1	Ca_Kabuli_Chr01	45332718	CC	TT	TT	INTERGENIC		
SNP_6390_A_45332745	NC_021160.1	Ca_Kabuli_Chr01	45332745	TT	CC	CC	INTERGENIC		
SNP_6391_A_45332796	NC_021160.1	Ca_Kabuli_Chr01	45332796	CC	TT	TT	INTERGENIC		
SNP_6392_A_45333122	NC_021160.1	Ca_Kabuli_Chr01	45333122	TT	CC	CC	INTERGENIC		
SNP_6393_A_45337020	NC_021160.1	Ca_Kabuli_Chr01	45337020	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6394_A_45337762	NC_021160.1	Ca_Kabuli_Chr01	45337762	AA	CC	CC	INTERGENIC			
SNP_6396_A_45372170	NC_021160.1	Ca_Kabuli_Chr01	45372170	TT	CC	CC	INTERGENIC			
SNP_6397_A_45372518	NC_021160.1	Ca_Kabuli_Chr01	45372518	TT	CC	CC	INTERGENIC			
SNP_6398_A_45372535	NC_021160.1	Ca_Kabuli_Chr01	45372535	TT	GG	GG	INTERGENIC			
SNP_6399_A_45372537	NC_021160.1	Ca_Kabuli_Chr01	45372537	TT	GG	GG	INTERGENIC			
SNP_6400_A_45372615	NC_021160.1	Ca_Kabuli_Chr01	45372615	CC	TT	TT	INTERGENIC			
SNP_6401_A_45372626	NC_021160.1	Ca_Kabuli_Chr01	45372626	TT	CC	CC	INTERGENIC			
SNP_6402_A_45392293	NC_021160.1	Ca_Kabuli_Chr01	45392293	AA	CC	CC	INTERGENIC			
SNP_6403_A_45392490	NC_021160.1	Ca_Kabuli_Chr01	45392490	GG	CC	CC	INTERGENIC			
SNP_6404_A_45392526	NC_021160.1	Ca_Kabuli_Chr01	45392526	CC	TT	TT	INTERGENIC			
SNP_6405_A_45392575	NC_021160.1	Ca_Kabuli_Chr01	45392575	TT	AA	AA	INTERGENIC			
SNP_6406_A_45392606	NC_021160.1	Ca_Kabuli_Chr01	45392606	AA	TT	TT	INTERGENIC			
SNP_6407_A_45392660	NC_021160.1	Ca_Kabuli_Chr01	45392660	AA	GG	GG	INTERGENIC			
SNP_6408_A_45392721	NC_021160.1	Ca_Kabuli_Chr01	45392721	CC	TT	TT	INTERGENIC			
SNP_6409_A_45438348	NC_021160.1	Ca_Kabuli_Chr01	45438348	GG	AA	AA	INTERGENIC			
SNP_6410_A_45496998	NC_021160.1	Ca_Kabuli_Chr01	45496998	TT	GG	GG	INTERGENIC			
SNP_6411_A_45497016	NC_021160.1	Ca_Kabuli_Chr01	45497016	CC	TT	TT	INTERGENIC			
SNP_6412_A_45497025	NC_021160.1	Ca_Kabuli_Chr01	45497025	GG	AA	AA	INTERGENIC			
SNP_6413_A_45497049	NC_021160.1	Ca_Kabuli_Chr01	45497049	AA	GG	GG	INTERGENIC			
SNP_6415_A_45497213	NC_021160.1	Ca_Kabuli_Chr01	45497213	CC	AA	AA	INTERGENIC			
SNP_6416_A_45497309	NC_021160.1	Ca_Kabuli_Chr01	45497309	TT	CC	CC	INTERGENIC			
SNP_6417_A_45497346	NC_021160.1	Ca_Kabuli_Chr01	45497346	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6418_A_45497483	NC_021160.1	Ca_Kabuli_Chr01	45497483	CC	GG	GG	INTERGENIC		
SNP_6419_A_45497510	NC_021160.1	Ca_Kabuli_Chr01	45497510	TT	CC	CC	INTERGENIC		
SNP_6420_A_45499313	NC_021160.1	Ca_Kabuli_Chr01	45499313	GG	AA	AA	INTERGENIC		
SNP_6421_A_45524852	NC_021160.1	Ca_Kabuli_Chr01	45524852	TT	GG	GG	URR	101488689	alpha/beta hydrolase domain-containing protein 17C-like
SNP_6422_A_45553145	NC_021160.1	Ca_Kabuli_Chr01	45553145	AA	GG	GG	INTERGENIC		
SNP_6423_A_45553150	NC_021160.1	Ca_Kabuli_Chr01	45553150	TT	CC	CC	INTERGENIC		
SNP_6424_A_45553165	NC_021160.1	Ca_Kabuli_Chr01	45553165	CC	TT	TT	INTERGENIC		
SNP_6425_A_45553168	NC_021160.1	Ca_Kabuli_Chr01	45553168	CC	AA	AA	INTERGENIC		
SNP_6426_A_45553220	NC_021160.1	Ca_Kabuli_Chr01	45553220	TT	CC	CC	INTERGENIC		
SNP_6427_A_45553262	NC_021160.1	Ca_Kabuli_Chr01	45553262	CC	TT	TT	INTERGENIC		
SNP_6428_A_45553283	NC_021160.1	Ca_Kabuli_Chr01	45553283	AA	GG	GG	INTERGENIC		
SNP_6429_A_45553545	NC_021160.1	Ca_Kabuli_Chr01	45553545	TT	CC	CC	INTERGENIC		
SNP_6430_A_45553595	NC_021160.1	Ca_Kabuli_Chr01	45553595	CC	AA	AA	INTERGENIC		
SNP_6431_A_45568196	NC_021160.1	Ca_Kabuli_Chr01	45568196	TT	CC	CC	URR	101490981	Unknown function
SNP_6432_A_45568212	NC_021160.1	Ca_Kabuli_Chr01	45568212	GG	AA	AA	URR	101490981	Unknown function
SNP_6433_A_45570975	NC_021160.1	Ca_Kabuli_Chr01	45570975	GG	AA	AA	INTERGENIC		
SNP_6434_A_45593052	NC_021160.1	Ca_Kabuli_Chr01	45593052	AA	GG	GG	INTERGENIC		
SNP_6435_A_45593053	NC_021160.1	Ca_Kabuli_Chr01	45593053	AA	GG	GG	INTERGENIC		
SNP_6436_A_45593070	NC_021160.1	Ca_Kabuli_Chr01	45593070	GG	TT	TT	INTERGENIC		
SNP_6437_A_45593076	NC_021160.1	Ca_Kabuli_Chr01	45593076	CC	GG	GG	INTERGENIC		
SNP_6438_A_45593089	NC_021160.1	Ca_Kabuli_Chr01	45593089	CC	TT	TT	INTERGENIC		
SNP_6439_A_45593118	NC_021160.1	Ca_Kabuli_Chr01	45593118	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6441_A_45609371	NC_021160.1	Ca_Kabuli_Chr01	45609371	CC	TT	TT	URR	101410564	transfer RNA serine (anticodon GGA)
SNP_6442_A_45617871	NC_021160.1	Ca_Kabuli_Chr01	45617871	GG	AA	AA	INTERGENIC		
SNP_6444_A_45653927	NC_021160.1	Ca_Kabuli_Chr01	45653927	GG	AA	AA	INTERGENIC		
SNP_6445_A_45662723	NC_021160.1	Ca_Kabuli_Chr01	45662723	GG	AA	AA	INTERGENIC		
SNP_6446_A_45662781	NC_021160.1	Ca_Kabuli_Chr01	45662781	AA	GG	GG	INTERGENIC		
SNP_6447_A_45662788	NC_021160.1	Ca_Kabuli_Chr01	45662788	CC	AA	AA	INTERGENIC		
SNP_6448_A_45662789	NC_021160.1	Ca_Kabuli_Chr01	45662789	CC	TT	TT	INTERGENIC		
SNP_6449_A_45662799	NC_021160.1	Ca_Kabuli_Chr01	45662799	AA	TT	TT	INTERGENIC		
SNP_6450_A_45662862	NC_021160.1	Ca_Kabuli_Chr01	45662862	CC	TT	TT	INTERGENIC		
SNP_6451_A_45663330	NC_021160.1	Ca_Kabuli_Chr01	45663330	CC	TT	TT	INTERGENIC		
SNP_6452_A_45663431	NC_021160.1	Ca_Kabuli_Chr01	45663431	TT	GG	GG	INTERGENIC		
SNP_6454_A_45788085	NC_021160.1	Ca_Kabuli_Chr01	45788085	CC	TT	TT	INTERGENIC		
SNP_6455_A_45810901	NC_021160.1	Ca_Kabuli_Chr01	45810901	GG	AA	AA	INTERGENIC		
SNP_6456_A_45815096	NC_021160.1	Ca_Kabuli_Chr01	45815096	AA	GG	GG	INTERGENIC		
SNP_6457_A_45815103	NC_021160.1	Ca_Kabuli_Chr01	45815103	AA	CC	CC	INTERGENIC		
SNP_6459_A_45850381	NC_021160.1	Ca_Kabuli_Chr01	45850381	GG	TT	TT	INTERGENIC		
SNP_6460_A_45913072	NC_021160.1	Ca_Kabuli_Chr01	45913072	CC	TT	TT	INTERGENIC		
SNP_6461_A_45913987	NC_021160.1	Ca_Kabuli_Chr01	45913987	TT	AA	AA	INTERGENIC		
SNP_6462_A_45913992	NC_021160.1	Ca_Kabuli_Chr01	45913992	CC	TT	TT	INTERGENIC		
SNP_6463_A_45913996	NC_021160.1	Ca_Kabuli_Chr01	45913996	GG	AA	AA	INTERGENIC		
SNP_6464_A_45914354	NC_021160.1	Ca_Kabuli_Chr01	45914354	TT	CC	CC	INTERGENIC		
SNP_6465_A_45914436	NC_021160.1	Ca_Kabuli_Chr01	45914436	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6466_A_45930051	NC_021160.1	Ca_Kabuli_Chr01	45930051	GG	AA	AA	INTERGENIC			
SNP_6469_A_45958214	NC_021160.1	Ca_Kabuli_Chr01	45958214	AA	TT	TT	INTERGENIC			
SNP_6471_A_46055727	NC_021160.1	Ca_Kabuli_Chr01	46055727	AA	GG	GG	INTERGENIC			
SNP_6472_A_46065868	NC_021160.1	Ca_Kabuli_Chr01	46065868	CC	TT	TT	INTERGENIC			
SNP_6473_A_46066109	NC_021160.1	Ca_Kabuli_Chr01	46066109	AA	CC	CC	INTERGENIC			
SNP_6474_A_46066179	NC_021160.1	Ca_Kabuli_Chr01	46066179	AA	CC	CC	INTERGENIC			
SNP_6475_A_46066233	NC_021160.1	Ca_Kabuli_Chr01	46066233	CC	TT	TT	INTERGENIC			
SNP_6476_A_46066296	NC_021160.1	Ca_Kabuli_Chr01	46066296	GG	AA	AA	INTERGENIC			
SNP_6477_A_46066302	NC_021160.1	Ca_Kabuli_Chr01	46066302	GG	TT	TT	INTERGENIC			
SNP_6478_A_46066347	NC_021160.1	Ca_Kabuli_Chr01	46066347	GG	TT	TT	INTERGENIC			
SNP_6479_A_46083394	NC_021160.1	Ca_Kabuli_Chr01	46083394	CC	TT	TT	INTERGENIC			
SNP_6480_A_46083409	NC_021160.1	Ca_Kabuli_Chr01	46083409	CC	AA	AA	INTERGENIC			
SNP_6481_A_46086816	NC_021160.1	Ca_Kabuli_Chr01	46086816	GG	TT	TT	INTERGENIC			
SNP_6482_A_46087996	NC_021160.1	Ca_Kabuli_Chr01	46087996	GG	AA	AA	INTERGENIC			
SNP_6483_A_46088009	NC_021160.1	Ca_Kabuli_Chr01	46088009	AA	GG	GG	INTERGENIC			
SNP_6484_A_46088061	NC_021160.1	Ca_Kabuli_Chr01	46088061	CC	TT	TT	INTERGENIC			
SNP_6486_A_46121642	NC_021160.1	Ca_Kabuli_Chr01	46121642	TT	GG	GG	INTERGENIC			
SNP_6487_A_46166441	NC_021160.1	Ca_Kabuli_Chr01	46166441	GG	AA	AA	INTERGENIC			
SNP_6488_A_46171346	NC_021160.1	Ca_Kabuli_Chr01	46171346	AA	GG	GG	INTERGENIC			
SNP_6489_A_46171497	NC_021160.1	Ca_Kabuli_Chr01	46171497	TT	AA	AA	INTERGENIC			
SNP_6490_A_46171677	NC_021160.1	Ca_Kabuli_Chr01	46171677	CC	TT	TT	INTERGENIC			
SNP_6491_A_46171753	NC_021160.1	Ca_Kabuli_Chr01	46171753	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6492_A_46171756	NC_021160.1	Ca_Kabuli_Chr01	46171756	AA	TT	TT	INTERGENIC			
SNP_6493_A_46174087	NC_021160.1	Ca_Kabuli_Chr01	46174087	TT	CC	CC	INTERGENIC			
SNP_6494_A_46174172	NC_021160.1	Ca_Kabuli_Chr01	46174172	TT	CC	CC	INTERGENIC			
SNP_6495_A_46174560	NC_021160.1	Ca_Kabuli_Chr01	46174560	AA	TT	TT	INTERGENIC			
SNP_6496_A_46174605	NC_021160.1	Ca_Kabuli_Chr01	46174605	AA	GG	GG	INTERGENIC			
SNP_6497_A_46176362	NC_021160.1	Ca_Kabuli_Chr01	46176362	GG	TT	TT	INTERGENIC			
SNP_6498_A_46178302	NC_021160.1	Ca_Kabuli_Chr01	46178302	CC	TT	TT	INTERGENIC			
SNP_6499_A_46179595	NC_021160.1	Ca_Kabuli_Chr01	46179595	AA	GG	GG	DRR	101493686	Unknown function	
SNP_6501_A_46192223	NC_021160.1	Ca_Kabuli_Chr01	46192223	AA	TT	TT	INTERGENIC			
SNP_6502_A_46192281	NC_021160.1	Ca_Kabuli_Chr01	46192281	TT	CC	CC	INTERGENIC			
SNP_6503_A_46192333	NC_021160.1	Ca_Kabuli_Chr01	46192333	AA	GG	GG	INTERGENIC			
SNP_6504_A_46192350	NC_021160.1	Ca_Kabuli_Chr01	46192350	TT	CC	CC	INTERGENIC			
SNP_6505_A_46192432	NC_021160.1	Ca_Kabuli_Chr01	46192432	TT	CC	CC	INTERGENIC			
SNP_6506_A_46192576	NC_021160.1	Ca_Kabuli_Chr01	46192576	TT	GG	GG	INTERGENIC			
SNP_6507_A_46259556	NC_021160.1	Ca_Kabuli_Chr01	46259556	AA	TT	TT	INTERGENIC			
SNP_6508_A_46278110	NC_021160.1	Ca_Kabuli_Chr01	46278110	TT	GG	GG	INTERGENIC			
SNP_6509_A_46278154	NC_021160.1	Ca_Kabuli_Chr01	46278154	GG	TT	TT	INTERGENIC			
SNP_6510_A_46278391	NC_021160.1	Ca_Kabuli_Chr01	46278391	GG	AA	AA	INTERGENIC			
SNP_6512_A_46279213	NC_021160.1	Ca_Kabuli_Chr01	46279213	TT	AA	AA	INTERGENIC			
SNP_6513_A_46279214	NC_021160.1	Ca_Kabuli_Chr01	46279214	TT	AA	AA	INTERGENIC			
SNP_6514_A_46279263	NC_021160.1	Ca_Kabuli_Chr01	46279263	TT	CC	CC	INTERGENIC			
SNP_6515_A_46279303	NC_021160.1	Ca_Kabuli_Chr01	46279303	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6516_A_46279420	NC_021160.1	Ca_Kabuli_Chr01	46279420	TT	CC	CC	INTERGENIC			
SNP_6517_A_46279552	NC_021160.1	Ca_Kabuli_Chr01	46279552	CC	TT	TT	INTERGENIC			
SNP_6518_A_46279881	NC_021160.1	Ca_Kabuli_Chr01	46279881	TT	CC	CC	INTERGENIC			
SNP_6519_A_46279986	NC_021160.1	Ca_Kabuli_Chr01	46279986	CC	TT	TT	INTERGENIC			
SNP_6520_A_46280136	NC_021160.1	Ca_Kabuli_Chr01	46280136	AA	CC	CC	INTERGENIC			
SNP_6521_A_46280421	NC_021160.1	Ca_Kabuli_Chr01	46280421	AA	GG	GG	INTERGENIC			
SNP_6522_A_46280423	NC_021160.1	Ca_Kabuli_Chr01	46280423	TT	CC	CC	INTERGENIC			
SNP_6523_A_46280468	NC_021160.1	Ca_Kabuli_Chr01	46280468	AA	CC	CC	INTERGENIC			
SNP_6524_A_46280526	NC_021160.1	Ca_Kabuli_Chr01	46280526	GG	AA	AA	INTERGENIC			
SNP_6525_A_46280783	NC_021160.1	Ca_Kabuli_Chr01	46280783	TT	GG	GG	INTERGENIC			
SNP_6526_A_46281110	NC_021160.1	Ca_Kabuli_Chr01	46281110	TT	CC	CC	INTERGENIC			
SNP_6527_A_46282795	NC_021160.1	Ca_Kabuli_Chr01	46282795	AA	TT	TT	INTERGENIC			
SNP_6528_A_46283478	NC_021160.1	Ca_Kabuli_Chr01	46283478	GG	TT	TT	INTERGENIC			
SNP_6529_A_46284112	NC_021160.1	Ca_Kabuli_Chr01	46284112	CC	TT	TT	INTERGENIC			
SNP_6530_A_46284673	NC_021160.1	Ca_Kabuli_Chr01	46284673	GG	AA	AA	INTERGENIC			
SNP_6531_A_46284997	NC_021160.1	Ca_Kabuli_Chr01	46284997	CC	TT	TT	INTERGENIC			
SNP_6532_A_46285294	NC_021160.1	Ca_Kabuli_Chr01	46285294	CC	TT	TT	INTERGENIC			
SNP_6533_A_46285302	NC_021160.1	Ca_Kabuli_Chr01	46285302	GG	AA	AA	INTERGENIC			
SNP_6534_A_46285622	NC_021160.1	Ca_Kabuli_Chr01	46285622	GG	TT	TT	INTERGENIC			
SNP_6535_A_46285789	NC_021160.1	Ca_Kabuli_Chr01	46285789	GG	CC	CC	INTERGENIC			
SNP_6536_A_46285870	NC_021160.1	Ca_Kabuli_Chr01	46285870	GG	CC	CC	INTERGENIC			
SNP_6537_A_46286015	NC_021160.1	Ca_Kabuli_Chr01	46286015	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6538_A_46286059	NC_021160.1	Ca_Kabuli_Chr01	46286059	GG	TT	TT	INTERGENIC		
SNP_6539_A_46286066	NC_021160.1	Ca_Kabuli_Chr01	46286066	AA	GG	GG	INTERGENIC		
SNP_6540_A_46286530	NC_021160.1	Ca_Kabuli_Chr01	46286530	TT	GG	GG	INTERGENIC		
SNP_6541_A_46286560	NC_021160.1	Ca_Kabuli_Chr01	46286560	GG	CC	CC	INTERGENIC		
SNP_6544_A_46286732	NC_021160.1	Ca_Kabuli_Chr01	46286732	TT	GG	GG	INTERGENIC		
SNP_6545_A_46324394	NC_021160.1	Ca_Kabuli_Chr01	46324394	TT	GG	GG	INTERGENIC		
SNP_6546_A_46327410	NC_021160.1	Ca_Kabuli_Chr01	46327410	CC	TT	TT	INTRON	101501118	uncharacterized LOC101501118
SNP_6547_A_46342508	NC_021160.1	Ca_Kabuli_Chr01	46342508	CC	TT	TT	INTRON	101501118	uncharacterized LOC101501118
SNP_6548_A_46351682	NC_021160.1	Ca_Kabuli_Chr01	46351682	GG	AA	AA	INTRON	101501118	uncharacterized LOC101501118
SNP_6549_A_46351707	NC_021160.1	Ca_Kabuli_Chr01	46351707	TT	AA	AA	INTRON	101501118	uncharacterized LOC101501118
SNP_6550_A_46351742	NC_021160.1	Ca_Kabuli_Chr01	46351742	AA	CC	CC	INTRON	101501118	uncharacterized LOC101501118
SNP_6551_A_46351774	NC_021160.1	Ca_Kabuli_Chr01	46351774	CC	TT	TT	INTRON	101501118	uncharacterized LOC101501118
SNP_6552_A_46351864	NC_021160.1	Ca_Kabuli_Chr01	46351864	TT	CC	CC	INTRON	101501118	uncharacterized LOC101501118
SNP_6553_A_46351929	NC_021160.1	Ca_Kabuli_Chr01	46351929	TT	CC	CC	INTRON	101501118	uncharacterized LOC101501118
SNP_6554_A_46352020	NC_021160.1	Ca_Kabuli_Chr01	46352020	AA	GG	GG	INTRON	101501118	uncharacterized LOC101501118
SNP_6555_A_46352041	NC_021160.1	Ca_Kabuli_Chr01	46352041	GG	TT	TT	INTRON	101501118	uncharacterized LOC101501118
SNP_6556_A_46352044	NC_021160.1	Ca_Kabuli_Chr01	46352044	GG	AA	AA	INTRON	101501118	uncharacterized LOC101501118
SNP_6557_A_46352057	NC_021160.1	Ca_Kabuli_Chr01	46352057	AA	CC	CC	INTRON	101501118	uncharacterized LOC101501118
SNP_6558_A_46352070	NC_021160.1	Ca_Kabuli_Chr01	46352070	AA	GG	GG	INTRON	101501118	uncharacterized LOC101501118
SNP_6559_A_46352104	NC_021160.1	Ca_Kabuli_Chr01	46352104	AA	GG	GG	INTRON	101501118	uncharacterized LOC101501118
SNP_6561_A_46352220	NC_021160.1	Ca_Kabuli_Chr01	46352220	TT	GG	GG	INTRON	101501118	uncharacterized LOC101501118
SNP_6562_A_46352257	NC_021160.1	Ca_Kabuli_Chr01	46352257	CC	GG	GG	INTRON	101501118	uncharacterized LOC101501118

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6563_A_46352262	NC_021160.1	Ca_Kabuli_Chr01	46352262	TT	CC	CC	INTRON	101501118	uncharacterized LOC101501118
SNP_6564_A_46392133	NC_021160.1	Ca_Kabuli_Chr01	46392133	TT	GG	GG	INTERGENIC		
SNP_6565_A_46392135	NC_021160.1	Ca_Kabuli_Chr01	46392135	TT	CC	CC	INTERGENIC		
SNP_6566_A_46404508	NC_021160.1	Ca_Kabuli_Chr01	46404508	TT	CC	CC	INTERGENIC		
SNP_6567_A_46449950	NC_021160.1	Ca_Kabuli_Chr01	46449950	TT	GG	GG	INTERGENIC		
SNP_6568_A_46456567	NC_021160.1	Ca_Kabuli_Chr01	46456567	GG	AA	AA	SYNONYMOUS_CODING	101496916	sugar transport protein 7-like
SNP_6570_A_46499682	NC_021160.1	Ca_Kabuli_Chr01	46499682	GG	AA	AA	INTRON	101501431	serine carboxypeptidase-like 45
SNP_6571_A_46499742	NC_021160.1	Ca_Kabuli_Chr01	46499742	GG	TT	TT	INTRON	101501431	serine carboxypeptidase-like 45
SNP_6572_A_46500251	NC_021160.1	Ca_Kabuli_Chr01	46500251	CC	TT	TT	INTRON	101501431	serine carboxypeptidase-like 45
SNP_6573_A_46500252	NC_021160.1	Ca_Kabuli_Chr01	46500252	CC	TT	TT	INTRON	101501431	serine carboxypeptidase-like 45
SNP_6574_A_46523221	NC_021160.1	Ca_Kabuli_Chr01	46523221	TT	CC	CC	NON_SYNONYMOUS_CODING	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6575_A_46523387	NC_021160.1	Ca_Kabuli_Chr01	46523387	TT	GG	GG	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6577_A_46523582	NC_021160.1	Ca_Kabuli_Chr01	46523582	AA	CC	CC	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6579_A_46524525	NC_021160.1	Ca_Kabuli_Chr01	46524525	TT	GG	GG	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6580_A_46524638	NC_021160.1	Ca_Kabuli_Chr01	46524638	TT	CC	CC	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6581_A_46524689	NC_021160.1	Ca_Kabuli_Chr01	46524689	CC	TT	TT	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6582_A_46524696	NC_021160.1	Ca_Kabuli_Chr01	46524696	CC	GG	GG	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6583_A_46524740	NC_021160.1	Ca_Kabuli_Chr01	46524740	GG	TT	TT	URR	101501746	ethylene-responsive transcription factor ERF027-like
SNP_6584_A_46525525	NC_021160.1	Ca_Kabuli_Chr01	46525525	GG	AA	AA	INTERGENIC		
SNP_6586_A_46526227	NC_021160.1	Ca_Kabuli_Chr01	46526227	AA	GG	GG	INTERGENIC		
SNP_6587_A_46526315	NC_021160.1	Ca_Kabuli_Chr01	46526315	TT	CC	CC	INTERGENIC		
SNP_6589_A_46527736	NC_021160.1	Ca_Kabuli_Chr01	46527736	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6590_A_46527737	NC_021160.1	Ca_Kabuli_Chr01	46527737	CC	TT	TT	INTERGENIC			
SNP_6591_A_46527842	NC_021160.1	Ca_Kabuli_Chr01	46527842	GG	TT	TT	INTERGENIC			
SNP_6592_A_46527914	NC_021160.1	Ca_Kabuli_Chr01	46527914	CC	TT	TT	INTERGENIC			
SNP_6593_A_46528070	NC_021160.1	Ca_Kabuli_Chr01	46528070	TT	CC	CC	INTERGENIC			
SNP_6594_A_46528205	NC_021160.1	Ca_Kabuli_Chr01	46528205	TT	CC	CC	INTERGENIC			
SNP_6596_A_46528669	NC_021160.1	Ca_Kabuli_Chr01	46528669	CC	TT	TT	INTERGENIC			
SNP_6597_A_46528715	NC_021160.1	Ca_Kabuli_Chr01	46528715	AA	GG	GG	INTERGENIC			
SNP_6598_A_46528767	NC_021160.1	Ca_Kabuli_Chr01	46528767	AA	GG	GG	INTERGENIC			
SNP_6599_A_46529096	NC_021160.1	Ca_Kabuli_Chr01	46529096	TT	CC	CC	INTERGENIC			
SNP_6600_A_46529312	NC_021160.1	Ca_Kabuli_Chr01	46529312	AA	GG	GG	INTERGENIC			
SNP_6601_A_46529335	NC_021160.1	Ca_Kabuli_Chr01	46529335	TT	CC	CC	INTERGENIC			
SNP_6602_A_46529554	NC_021160.1	Ca_Kabuli_Chr01	46529554	AA	GG	GG	INTERGENIC			
SNP_6603_A_46529691	NC_021160.1	Ca_Kabuli_Chr01	46529691	GG	AA	AA	INTERGENIC			
SNP_6604_A_46529764	NC_021160.1	Ca_Kabuli_Chr01	46529764	TT	GG	GG	INTERGENIC			
SNP_6605_A_46529892	NC_021160.1	Ca_Kabuli_Chr01	46529892	AA	CC	CC	INTERGENIC			
SNP_6606_A_46529977	NC_021160.1	Ca_Kabuli_Chr01	46529977	CC	TT	TT	INTERGENIC			
SNP_6607_A_46530174	NC_021160.1	Ca_Kabuli_Chr01	46530174	AA	GG	GG	INTERGENIC			
SNP_6608_A_46530275	NC_021160.1	Ca_Kabuli_Chr01	46530275	GG	AA	AA	INTERGENIC			
SNP_6609_A_46530475	NC_021160.1	Ca_Kabuli_Chr01	46530475	CC	GG	GG	INTERGENIC			
SNP_6610_A_46530546	NC_021160.1	Ca_Kabuli_Chr01	46530546	GG	AA	AA	DRR	101497567	uncharacterized LOC101497567	
SNP_6611_A_46530766	NC_021160.1	Ca_Kabuli_Chr01	46530766	AA	GG	GG	DRR	101497567	uncharacterized LOC101497567	
SNP_6612_A_46530832	NC_021160.1	Ca_Kabuli_Chr01	46530832	GG	AA	AA	DRR	101497567	uncharacterized LOC101497567	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6615_A_46531318	NC_021160.1	Ca_Kabuli_Chr01	46531318	AA	GG	GG	DRR	101497567	uncharacterized LOC101497567
SNP_6616_A_46538684	NC_021160.1	Ca_Kabuli_Chr01	46538684	AA	TT	TT	INTERGENIC		
SNP_6617_A_46538685	NC_021160.1	Ca_Kabuli_Chr01	46538685	CC	GG	GG	INTERGENIC		
SNP_6618_A_46538708	NC_021160.1	Ca_Kabuli_Chr01	46538708	CC	GG	GG	INTERGENIC		
SNP_6619_A_46538713	NC_021160.1	Ca_Kabuli_Chr01	46538713	CC	TT	TT	INTERGENIC		
SNP_6620_A_46538715	NC_021160.1	Ca_Kabuli_Chr01	46538715	AA	GG	GG	INTERGENIC		
SNP_6621_A_46538857	NC_021160.1	Ca_Kabuli_Chr01	46538857	GG	TT	TT	INTERGENIC		
SNP_6622_A_46538858	NC_021160.1	Ca_Kabuli_Chr01	46538858	TT	CC	CC	INTERGENIC		
SNP_6623_A_46539156	NC_021160.1	Ca_Kabuli_Chr01	46539156	AA	GG	GG	INTERGENIC		
SNP_6625_A_46565798	NC_021160.1	Ca_Kabuli_Chr01	46565798	TT	CC	CC	INTERGENIC		
SNP_6626_A_46567314	NC_021160.1	Ca_Kabuli_Chr01	46567314	TT	CC	CC	INTERGENIC		
SNP_6627_A_46568271	NC_021160.1	Ca_Kabuli_Chr01	46568271	CC	TT	TT	INTERGENIC		
SNP_6628_A_46568457	NC_021160.1	Ca_Kabuli_Chr01	46568457	GG	AA	AA	INTERGENIC		
SNP_6630_A_46619680	NC_021160.1	Ca_Kabuli_Chr01	46619680	CC	TT	TT	URR	101502070	omega-hydroxypalmitate O-feruloyl transferase
SNP_6631_A_46635536	NC_021160.1	Ca_Kabuli_Chr01	46635536	TT	CC	CC	INTERGENIC		
SNP_6632_A_46660539	NC_021160.1	Ca_Kabuli_Chr01	46660539	AA	CC	CC	INTERGENIC		
SNP_6633_A_46661580	NC_021160.1	Ca_Kabuli_Chr01	46661580	TT	CC	CC	INTERGENIC		
SNP_6634_A_46661658	NC_021160.1	Ca_Kabuli_Chr01	46661658	TT	CC	CC	INTERGENIC		
SNP_6635_A_46661756	NC_021160.1	Ca_Kabuli_Chr01	46661756	GG	CC	CC	INTERGENIC		
SNP_6636_A_46661822	NC_021160.1	Ca_Kabuli_Chr01	46661822	TT	GG	GG	INTERGENIC		
SNP_6637_A_46662080	NC_021160.1	Ca_Kabuli_Chr01	46662080	CC	TT	TT	DRR	101502701	uncharacterized LOC101502701
SNP_6638_A_46699362	NC_021160.1	Ca_Kabuli_Chr01	46699362	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6639_A_46699365	NC_021160.1	Ca_Kabuli_Chr01	46699365	TT	AA	AA	INTERGENIC		
SNP_6640_A_46699381	NC_021160.1	Ca_Kabuli_Chr01	46699381	TT	CC	CC	INTERGENIC		
SNP_6641_A_46699386	NC_021160.1	Ca_Kabuli_Chr01	46699386	GG	AA	AA	INTERGENIC		
SNP_6642_A_46699389	NC_021160.1	Ca_Kabuli_Chr01	46699389	CC	AA	AA	INTERGENIC		
SNP_6643_A_46700995	NC_021160.1	Ca_Kabuli_Chr01	46700995	TT	CC	CC	INTERGENIC		
SNP_6644_A_46701093	NC_021160.1	Ca_Kabuli_Chr01	46701093	CC	TT	TT	INTERGENIC		
SNP_6645_A_46701149	NC_021160.1	Ca_Kabuli_Chr01	46701149	AA	TT	TT	INTERGENIC		
SNP_6646_A_46701278	NC_021160.1	Ca_Kabuli_Chr01	46701278	AA	GG	GG	INTERGENIC		
SNP_6647_A_46742835	NC_021160.1	Ca_Kabuli_Chr01	46742835	GG	AA	AA	INTRON	101503998	uncharacterized LOC101503998
SNP_6648_A_46773138	NC_021160.1	Ca_Kabuli_Chr01	46773138	CC	AA	AA	INTERGENIC		
SNP_6649_A_46801179	NC_021160.1	Ca_Kabuli_Chr01	46801179	AA	GG	GG	INTERGENIC		
SNP_6650_A_46801543	NC_021160.1	Ca_Kabuli_Chr01	46801543	TT	AA	AA	INTERGENIC		
SNP_6651_A_46801706	NC_021160.1	Ca_Kabuli_Chr01	46801706	CC	AA	AA	INTERGENIC		
SNP_6652_A_46812020	NC_021160.1	Ca_Kabuli_Chr01	46812020	TT	CC	CC	INTERGENIC		
SNP_6653_A_46819052	NC_021160.1	Ca_Kabuli_Chr01	46819052	CC	TT	TT	INTRON	id24556	Unknown function
SNP_6654_A_46819079	NC_021160.1	Ca_Kabuli_Chr01	46819079	TT	AA	AA	INTRON	id24556	Unknown function
SNP_6655_A_46819853	NC_021160.1	Ca_Kabuli_Chr01	46819853	CC	TT	TT	INTRON	id24556	Unknown function
SNP_6656_A_46819949	NC_021160.1	Ca_Kabuli_Chr01	46819949	GG	AA	AA	INTRON	id24556	Unknown function
SNP_6657_A_46822788	NC_021160.1	Ca_Kabuli_Chr01	46822788	CC	TT	TT	INTRON	id24556	Unknown function
SNP_6658_A_46831609	NC_021160.1	Ca_Kabuli_Chr01	46831609	TT	GG	GG	INTERGENIC		
SNP_6659_A_46831616	NC_021160.1	Ca_Kabuli_Chr01	46831616	GG	CC	CC	INTERGENIC		
SNP_6660_A_46831661	NC_021160.1	Ca_Kabuli_Chr01	46831661	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6661_A_46831922	NC_021160.1	Ca_Kabuli_Chr01	46831922	GG	AA	AA	INTERGENIC			
SNP_6663_A_46831978	NC_021160.1	Ca_Kabuli_Chr01	46831978	AA	GG	GG	INTERGENIC			
SNP_6664_A_46831997	NC_021160.1	Ca_Kabuli_Chr01	46831997	GG	AA	AA	INTERGENIC			
SNP_6665_A_46832007	NC_021160.1	Ca_Kabuli_Chr01	46832007	CC	AA	AA	INTERGENIC			
SNP_6666_A_46832039	NC_021160.1	Ca_Kabuli_Chr01	46832039	AA	GG	GG	INTERGENIC			
SNP_6667_A_46832040	NC_021160.1	Ca_Kabuli_Chr01	46832040	TT	GG	GG	INTERGENIC			
SNP_6668_A_46851438	NC_021160.1	Ca_Kabuli_Chr01	46851438	GG	TT	TT	URR	101507455	Unknown function	
SNP_6669_A_46851810	NC_021160.1	Ca_Kabuli_Chr01	46851810	AA	GG	GG	URR	101507455	Unknown function	
SNP_6670_A_46856129	NC_021160.1	Ca_Kabuli_Chr01	46856129	TT	CC	CC	INTERGENIC			
SNP_6671_A_46856301	NC_021160.1	Ca_Kabuli_Chr01	46856301	TT	GG	GG	INTERGENIC			
SNP_6672_A_46856337	NC_021160.1	Ca_Kabuli_Chr01	46856337	CC	TT	TT	INTERGENIC			
SNP_6674_A_46856656	NC_021160.1	Ca_Kabuli_Chr01	46856656	CC	TT	TT	INTERGENIC			
SNP_6675_A_46856683	NC_021160.1	Ca_Kabuli_Chr01	46856683	TT	CC	CC	INTERGENIC			
SNP_6676_A_46869159	NC_021160.1	Ca_Kabuli_Chr01	46869159	GG	AA	AA	INTERGENIC			
SNP_6677_A_46890619	NC_021160.1	Ca_Kabuli_Chr01	46890619	CC	TT	TT	INTERGENIC			
SNP_6678_A_46894736	NC_021160.1	Ca_Kabuli_Chr01	46894736	AA	CC	CC	INTERGENIC			
SNP_6681_A_47058323	NC_021160.1	Ca_Kabuli_Chr01	47058323	TT	AA	AA	INTERGENIC			
SNP_6682_A_47058329	NC_021160.1	Ca_Kabuli_Chr01	47058329	TT	GG	GG	INTERGENIC			
SNP_6683_A_47058684	NC_021160.1	Ca_Kabuli_Chr01	47058684	TT	GG	GG	INTERGENIC			
SNP_6684_A_47058840	NC_021160.1	Ca_Kabuli_Chr01	47058840	GG	CC	CC	INTERGENIC			
SNP_6685_A_47059122	NC_021160.1	Ca_Kabuli_Chr01	47059122	AA	GG	GG	INTERGENIC			
SNP_6686_A_47059137	NC_021160.1	Ca_Kabuli_Chr01	47059137	CC	GG	GG	INTERGENIC			

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SNP_6687_A_47059138	NC_021160.1	Ca_Kabuli_Chr01	47059138	TT	CC	CC	INTERGENIC		
SNP_6688_A_47059186	NC_021160.1	Ca_Kabuli_Chr01	47059186	AA	CC	CC	INTERGENIC		
SNP_6689_A_47059206	NC_021160.1	Ca_Kabuli_Chr01	47059206	TT	CC	CC	INTERGENIC		
SNP_6690_A_47059222	NC_021160.1	Ca_Kabuli_Chr01	47059222	AA	GG	GG	INTERGENIC		
SNP_6691_A_47059330	NC_021160.1	Ca_Kabuli_Chr01	47059330	GG	TT	TT	INTERGENIC		
SNP_6692_A_47061570	NC_021160.1	Ca_Kabuli_Chr01	47061570	GG	AA	AA	INTERGENIC		
SNP_6694_A_47146186	NC_021160.1	Ca_Kabuli_Chr01	47146186	TT	AA	AA	INTRON	101513977	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840
SNP_6695_A_47146187	NC_021160.1	Ca_Kabuli_Chr01	47146187	TT	AA	AA	INTRON	101513977	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840
SNP_6696_A_47227447	NC_021160.1	Ca_Kabuli_Chr01	47227447	GG	AA	AA	URR	101511820	Unknown function
SNP_6697_A_47245108	NC_021160.1	Ca_Kabuli_Chr01	47245108	TT	AA	AA	INTERGENIC		
SNP_6698_A_47280588	NC_021160.1	Ca_Kabuli_Chr01	47280588	GG	AA	AA	URR	101515283	uncharacterized LOC101515283
SNP_6699_A_47292438	NC_021160.1	Ca_Kabuli_Chr01	47292438	AA	CC	CC	INTRON	101488568	BES1/BZR1 homolog protein 4-like
SNP_6700_A_47369190	NC_021160.1	Ca_Kabuli_Chr01	47369190	TT	CC	CC	INTERGENIC		
SNP_6701_A_47372707	NC_021160.1	Ca_Kabuli_Chr01	47372707	AA	CC	CC	INTERGENIC		
SNP_6702_A_47397614	NC_021160.1	Ca_Kabuli_Chr01	47397614	GG	AA	AA	INTERGENIC		
SNP_6703_A_47413388	NC_021160.1	Ca_Kabuli_Chr01	47413388	AA	GG	GG	INTERGENIC		
SNP_6704_A_47424362	NC_021160.1	Ca_Kabuli_Chr01	47424362	AA	CC	CC	INTERGENIC		
SNP_6706_A_47434211	NC_021160.1	Ca_Kabuli_Chr01	47434211	CC	GG	GG	URR	101490861	gamma-glutamyl hydrolase 2-like
SNP_6708_A_47493697	NC_021160.1	Ca_Kabuli_Chr01	47493697	AA	GG	GG	INTERGENIC		
SNP_6709_A_47510077	NC_021160.1	Ca_Kabuli_Chr01	47510077	TT	GG	GG	INTERGENIC		
SNP_6710_A_47522165	NC_021160.1	Ca_Kabuli_Chr01	47522165	GG	TT	TT	INTERGENIC		
SNP_6711_A_47541711	NC_021160.1	Ca_Kabuli_Chr01	47541711	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6712_A_47542702	NC_021160.1	Ca_Kabuli_Chr01	47542702	TT	AA	AA	INTERGENIC		
SNP_6713_A_47542797	NC_021160.1	Ca_Kabuli_Chr01	47542797	CC	TT	TT	INTERGENIC		
SNP_6714_A_47562557	NC_021160.1	Ca_Kabuli_Chr01	47562557	CC	TT	TT	INTERGENIC		
SNP_6715_A_47630049	NC_021160.1	Ca_Kabuli_Chr01	47630049	AA	GG	GG	SYNONYMOUS_CODING	101514729	uncharacterized LOC101514729
SNP_6716_A_47630050	NC_021160.1	Ca_Kabuli_Chr01	47630050	CC	AA	AA	NON_SYNONYMOUS_CODING	101514729	uncharacterized LOC101514729
SNP_6717_A_47630499	NC_021160.1	Ca_Kabuli_Chr01	47630499	TT	CC	CC	NON_SYNONYMOUS_CODING	101514729	uncharacterized LOC101514729
SNP_6718_A_47630502	NC_021160.1	Ca_Kabuli_Chr01	47630502	CC	AA	AA	STOP_GAINED	101514729	uncharacterized LOC101514729
SNP_6720_A_47630795	NC_021160.1	Ca_Kabuli_Chr01	47630795	AA	GG	GG	URR	101514729	uncharacterized LOC101514729
SNP_6722_A_47633064	NC_021160.1	Ca_Kabuli_Chr01	47633064	GG	AA	AA	INTERGENIC		
SNP_6723_A_47633364	NC_021160.1	Ca_Kabuli_Chr01	47633364	CC	TT	TT	INTERGENIC		
SNP_6724_A_47662878	NC_021160.1	Ca_Kabuli_Chr01	47662878	AA	TT	TT	INTERGENIC		
SNP_6725_A_47667542	NC_021160.1	Ca_Kabuli_Chr01	47667542	GG	TT	TT	INTERGENIC		
SNP_6726_A_47671970	NC_021160.1	Ca_Kabuli_Chr01	47671970	CC	TT	TT	DRR	101493688	pathogen-related protein
SNP_6728_A_47753877	NC_021160.1	Ca_Kabuli_Chr01	47753877	TT	AA	AA	INTERGENIC		
SNP_6729_A_47838359	NC_021160.1	Ca_Kabuli_Chr01	47838359	TT	CC	CC	INTERGENIC		
SNP_6730_A_47838374	NC_021160.1	Ca_Kabuli_Chr01	47838374	AA	GG	GG	INTERGENIC		
SNP_6731_A_47838380	NC_021160.1	Ca_Kabuli_Chr01	47838380	GG	AA	AA	INTERGENIC		
SNP_6732_A_47838384	NC_021160.1	Ca_Kabuli_Chr01	47838384	AA	GG	GG	INTERGENIC		
SNP_6733_A_47839097	NC_021160.1	Ca_Kabuli_Chr01	47839097	TT	CC	CC	INTERGENIC		
SNP_6734_A_47839585	NC_021160.1	Ca_Kabuli_Chr01	47839585	AA	GG	GG	INTERGENIC		
SNP_6735_A_47839624	NC_021160.1	Ca_Kabuli_Chr01	47839624	AA	GG	GG	INTERGENIC		
SNP_6736_A_47839636	NC_021160.1	Ca_Kabuli_Chr01	47839636	AA	GG	GG	INTERGENIC		

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SNP_6737_A_47868030	NC_021160.1	Ca_Kabuli_Chr01	47868030	TT	CC	CC	INTERGENIC		
SNP_6738_A_47871288	NC_021160.1	Ca_Kabuli_Chr01	47871288	CC	TT	TT	INTERGENIC		
SNP_6739_A_47875035	NC_021160.1	Ca_Kabuli_Chr01	47875035	GG	TT	TT	INTERGENIC		
SNP_6740_A_47875121	NC_021160.1	Ca_Kabuli_Chr01	47875121	GG	AA	AA	INTERGENIC		
SNP_6741_A_47875173	NC_021160.1	Ca_Kabuli_Chr01	47875173	AA	GG	GG	INTERGENIC		
SNP_6742_A_47875192	NC_021160.1	Ca_Kabuli_Chr01	47875192	TT	AA	AA	INTERGENIC		
SNP_6744_A_47875218	NC_021160.1	Ca_Kabuli_Chr01	47875218	AA	TT	TT	INTERGENIC		
SNP_6745_A_47875223	NC_021160.1	Ca_Kabuli_Chr01	47875223	AA	GG	GG	INTERGENIC		
SNP_6746_A_47875314	NC_021160.1	Ca_Kabuli_Chr01	47875314	GG	TT	TT	INTERGENIC		
SNP_6747_A_47875521	NC_021160.1	Ca_Kabuli_Chr01	47875521	AA	GG	GG	INTERGENIC		
SNP_6750_A_47990928	NC_021160.1	Ca_Kabuli_Chr01	47990928	CC	TT	TT	INTERGENIC		
SNP_6751_A_47992361	NC_021160.1	Ca_Kabuli_Chr01	47992361	CC	TT	TT	INTERGENIC		
SNP_6752_A_47999360	NC_021160.1	Ca_Kabuli_Chr01	47999360	TT	AA	AA	INTRON	101501119	increased DNA methylation 1
SNP_6753_A_48011820	NC_021160.1	Ca_Kabuli_Chr01	48011820	CC	TT	TT	INTERGENIC		
SNP_6755_A_48069650	NC_021160.1	Ca_Kabuli_Chr01	48069650	AA	CC	CC	INTERGENIC		
SNP_6756_A_48071249	NC_021160.1	Ca_Kabuli_Chr01	48071249	AA	GG	GG	INTERGENIC		
SNP_6757_A_48071258	NC_021160.1	Ca_Kabuli_Chr01	48071258	AA	CC	CC	INTERGENIC		
SNP_6758_A_48071260	NC_021160.1	Ca_Kabuli_Chr01	48071260	AA	GG	GG	INTERGENIC		
SNP_6759_A_48071274	NC_021160.1	Ca_Kabuli_Chr01	48071274	AA	GG	GG	INTERGENIC		
SNP_6760_A_48071289	NC_021160.1	Ca_Kabuli_Chr01	48071289	GG	AA	AA	INTERGENIC		
SNP_6761_A_48071290	NC_021160.1	Ca_Kabuli_Chr01	48071290	TT	GG	GG	INTERGENIC		
SNP_6762_A_48071479	NC_021160.1	Ca_Kabuli_Chr01	48071479	TT	CC	CC	INTERGENIC		

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SNP_6763_A_48082383	NC_021160.1	Ca_Kabuli_Chr01	48082383	TT	CC	CC	INTERGENIC		
SNP_6764_A_48091753	NC_021160.1	Ca_Kabuli_Chr01	48091753	TT	CC	CC	INTERGENIC		
SNP_6767_A_48142657	NC_021160.1	Ca_Kabuli_Chr01	48142657	TT	CC	CC	INTERGENIC		
SNP_6768_A_48169600	NC_021160.1	Ca_Kabuli_Chr01	48169600	AA	TT	TT	INTERGENIC		
SNP_6770_A_48213164	NC_021160.1	Ca_Kabuli_Chr01	48213164	GG	AA	AA	INTERGENIC		
SNP_6772_A_48290803	NC_021160.1	Ca_Kabuli_Chr01	48290803	AA	GG	GG	INTRON	101491086	uncharacterized LOC101491086
SNP_6773_A_48299999	NC_021160.1	Ca_Kabuli_Chr01	48299999	GG	AA	AA	INTERGENIC		
SNP_6774_A_48322674	NC_021160.1	Ca_Kabuli_Chr01	48322674	TT	AA	AA	INTERGENIC		
SNP_6775_A_48350294	NC_021160.1	Ca_Kabuli_Chr01	48350294	TT	CC	CC	INTERGENIC		
SNP_6776_A_48350321	NC_021160.1	Ca_Kabuli_Chr01	48350321	AA	TT	TT	INTERGENIC		
SNP_6777_A_42046	NC_021161.1	Ca_Kabuli_Chr02	42046	CC	TT	TT	INTERGENIC		
SNP_6778_A_42119	NC_021161.1	Ca_Kabuli_Chr02	42119	GG	TT	TT	INTERGENIC		
SNP_6780_A_42433	NC_021161.1	Ca_Kabuli_Chr02	42433	AA	GG	GG	INTERGENIC		
SNP_6781_A_42678	NC_021161.1	Ca_Kabuli_Chr02	42678	AA	GG	GG	INTERGENIC		
SNP_6782_A_42752	NC_021161.1	Ca_Kabuli_Chr02	42752	CC	AA	AA	INTERGENIC		
SNP_6783_A_42907	NC_021161.1	Ca_Kabuli_Chr02	42907	AA	CC	CC	INTERGENIC		
SNP_6784_A_49284	NC_021161.1	Ca_Kabuli_Chr02	49284	CC	AA	AA	INTERGENIC		
SNP_6786_A_70724	NC_021161.1	Ca_Kabuli_Chr02	70724	CC	TT	TT	INTERGENIC		
SNP_6787_A_70737	NC_021161.1	Ca_Kabuli_Chr02	70737	TT	CC	CC	INTERGENIC		
SNP_6788_A_77417	NC_021161.1	Ca_Kabuli_Chr02	77417	AA	GG	GG	INTERGENIC		
SNP_6789_A_88119	NC_021161.1	Ca_Kabuli_Chr02	88119	TT	CC	CC	URR	101493466	cationic amino acid transporter 9, chloroplatic
SNP_6790_A_151695	NC_021161.1	Ca_Kabuli_Chr02	151695	CC	TT	TT	URR	101495602	UPF0565 protein C2orf69 homolog

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SNP_6791_A_176189	NC_021161.1	Ca_Kabuli_Chr02	176189	AA	GG	GG	INTERGENIC		
SNP_6792_A_183396	NC_021161.1	Ca_Kabuli_Chr02	183396	TT	CC	CC	INTERGENIC		
SNP_6794_A_272691	NC_021161.1	Ca_Kabuli_Chr02	272691	CC	TT	TT	INTERGENIC		
SNP_6795_A_277335	NC_021161.1	Ca_Kabuli_Chr02	277335	AA	GG	GG	INTERGENIC		
SNP_6797_A_298435	NC_021161.1	Ca_Kabuli_Chr02	298435	GG	TT	TT	INTERGENIC		
SNP_6798_A_304092	NC_021161.1	Ca_Kabuli_Chr02	304092	TT	CC	CC	INTERGENIC		
SNP_6799_A_311641	NC_021161.1	Ca_Kabuli_Chr02	311641	GG	TT	TT	INTERGENIC		
SNP_6800_A_323509	NC_021161.1	Ca_Kabuli_Chr02	323509	TT	CC	CC	INTERGENIC		
SNP_6801_A_333624	NC_021161.1	Ca_Kabuli_Chr02	333624	CC	TT	TT	INTERGENIC		
SNP_6802_A_417338	NC_021161.1	Ca_Kabuli_Chr02	417338	AA	TT	TT	INTERGENIC		
SNP_6804_A_458340	NC_021161.1	Ca_Kabuli_Chr02	458340	CC	TT	TT	INTERGENIC		
SNP_6806_A_478241	NC_021161.1	Ca_Kabuli_Chr02	478241	TT	AA	AA	DRR	101501121	uncharacterized LOC101501121
SNP_6807_A_499218	NC_021161.1	Ca_Kabuli_Chr02	499218	CC	AA	AA	INTERGENIC		
SNP_6808_A_541470	NC_021161.1	Ca_Kabuli_Chr02	541470	AA	TT	TT	INTRON	101501748	HEAT repeat-containing protein 5B
SNP_6809_A_600871	NC_021161.1	Ca_Kabuli_Chr02	600871	AA	TT	TT	INTERGENIC		
SNP_6810_A_602864	NC_021161.1	Ca_Kabuli_Chr02	602864	GG	AA	AA	INTERGENIC		
SNP_6811_A_628541	NC_021161.1	Ca_Kabuli_Chr02	628541	GG	AA	AA	INTERGENIC		
SNP_6812_A_636222	NC_021161.1	Ca_Kabuli_Chr02	636222	GG	TT	TT	INTERGENIC		
SNP_6814_A_636312	NC_021161.1	Ca_Kabuli_Chr02	636312	AA	GG	GG	INTERGENIC		
SNP_6815_A_636607	NC_021161.1	Ca_Kabuli_Chr02	636607	CC	TT	TT	INTERGENIC		
SNP_6816_A_642840	NC_021161.1	Ca_Kabuli_Chr02	642840	TT	CC	CC	INTERGENIC		
SNP_6817_A_652602	NC_021161.1	Ca_Kabuli_Chr02	652602	CC	TT	TT	INTERGENIC		

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SNP_6818_A_661280	NC_021161.1	Ca_Kabuli_Chr02	661280	AA	CC	CC	INTERGENIC		
SNP_6819_A_661282	NC_021161.1	Ca_Kabuli_Chr02	661282	TT	CC	CC	INTERGENIC		
SNP_6820_A_661283	NC_021161.1	Ca_Kabuli_Chr02	661283	TT	AA	AA	INTERGENIC		
SNP_6821_A_665904	NC_021161.1	Ca_Kabuli_Chr02	665904	GG	AA	AA	INTERGENIC		
SNP_6823_A_745283	NC_021161.1	Ca_Kabuli_Chr02	745283	AA	GG	GG	INTRON	101504964	uncharacterized LOC101504964
SNP_6825_A_759188	NC_021161.1	Ca_Kabuli_Chr02	759188	GG	AA	AA	INTERGENIC		
SNP_6826_A_776733	NC_021161.1	Ca_Kabuli_Chr02	776733	GG	AA	AA	NON_SYNONYMOUS_CODING	101505276	protein FLOWERING LOCUS T-like
SNP_6828_A_857157	NC_021161.1	Ca_Kabuli_Chr02	857157	AA	GG	GG	INTERGENIC		
SNP_6829_A_857169	NC_021161.1	Ca_Kabuli_Chr02	857169	TT	AA	AA	INTERGENIC		
SNP_6831_A_1041083	NC_021161.1	Ca_Kabuli_Chr02	1041083	CC	TT	TT	INTRON	SKIV2L2	Unknown function
SNP_6832_A_1041112	NC_021161.1	Ca_Kabuli_Chr02	1041112	AA	GG	GG	INTRON	SKIV2L2	Unknown function
SNP_6833_A_1041136	NC_021161.1	Ca_Kabuli_Chr02	1041136	TT	AA	AA	INTRON	SKIV2L2	Unknown function
SNP_6834_A_1041205	NC_021161.1	Ca_Kabuli_Chr02	1041205	AA	GG	GG	INTRON	SKIV2L2	Unknown function
SNP_6835_A_1041366	NC_021161.1	Ca_Kabuli_Chr02	1041366	GG	AA	AA	NON_SYNONYMOUS_CODING	SKIV2L2	Unknown function
SNP_6836_A_1041434	NC_021161.1	Ca_Kabuli_Chr02	1041434	AA	GG	GG	INTRON	SKIV2L2	Unknown function
SNP_6837_A_1041900	NC_021161.1	Ca_Kabuli_Chr02	1041900	AA	TT	TT	INTRON	SKIV2L2	Unknown function
SNP_6838_A_1047568	NC_021161.1	Ca_Kabuli_Chr02	1047568	CC	AA	AA	NON_SYNONYMOUS_CODING	SKIV2L2	Unknown function
SNP_6839_A_1048661	NC_021161.1	Ca_Kabuli_Chr02	1048661	CC	GG	GG	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6840_A_1048681	NC_021161.1	Ca_Kabuli_Chr02	1048681	TT	AA	AA	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6841_A_1048683	NC_021161.1	Ca_Kabuli_Chr02	1048683	TT	AA	AA	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6842_A_1048684	NC_021161.1	Ca_Kabuli_Chr02	1048684	TT	AA	AA	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6843_A_1048696	NC_021161.1	Ca_Kabuli_Chr02	1048696	TT	CC	CC	URR	101507765	superkiller viralicidic activity 2-like 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6844_A_1049048	NC_021161.1	Ca_Kabuli_Chr02	1049048	TT	AA	AA	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6845_A_1049331	NC_021161.1	Ca_Kabuli_Chr02	1049331	TT	CC	CC	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6846_A_1049430	NC_021161.1	Ca_Kabuli_Chr02	1049430	CC	AA	AA	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6847_A_1049431	NC_021161.1	Ca_Kabuli_Chr02	1049431	CC	TT	TT	URR	101507765	superkiller viralicidic activity 2-like 2
SNP_6848_A_1073874	NC_021161.1	Ca_Kabuli_Chr02	1073874	TT	AA	AA	INTERGENIC		
SNP_6849_A_1074897	NC_021161.1	Ca_Kabuli_Chr02	1074897	TT	CC	CC	INTERGENIC		
SNP_6850_A_1075026	NC_021161.1	Ca_Kabuli_Chr02	1075026	GG	TT	TT	INTERGENIC		
SNP_6851_A_1098025	NC_021161.1	Ca_Kabuli_Chr02	1098025	AA	TT	TT	INTRON	101489028	aldose 1-epimerase-like
SNP_6852_A_1098029	NC_021161.1	Ca_Kabuli_Chr02	1098029	CC	GG	GG	INTRON	101489028	aldose 1-epimerase-like
SNP_6853_A_1134133	NC_021161.1	Ca_Kabuli_Chr02	1134133	AA	TT	TT	INTERGENIC		
SNP_6854_A_1159789	NC_021161.1	Ca_Kabuli_Chr02	1159789	AA	GG	GG	INTERGENIC		
SNP_6855_A_1177921	NC_021161.1	Ca_Kabuli_Chr02	1177921	CC	TT	TT	INTRON	101490658	beta-galactosidase 11-like
SNP_6856_A_1182813	NC_021161.1	Ca_Kabuli_Chr02	1182813	GG	AA	AA	INTRON	101490658	beta-galactosidase 11-like
SNP_6857_A_1197290	NC_021161.1	Ca_Kabuli_Chr02	1197290	AA	TT	TT	INTERGENIC		
SNP_6858_A_1204400	NC_021161.1	Ca_Kabuli_Chr02	1204400	TT	CC	CC	INTERGENIC		
SNP_6859_A_1204786	NC_021161.1	Ca_Kabuli_Chr02	1204786	GG	CC	CC	INTERGENIC		
SNP_6860_A_1209240	NC_021161.1	Ca_Kabuli_Chr02	1209240	CC	TT	TT	DRR	101490983	Unknown function
SNP_6861_A_1230714	NC_021161.1	Ca_Kabuli_Chr02	1230714	TT	CC	CC	INTRON	101491178	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_6862_A_1230720	NC_021161.1	Ca_Kabuli_Chr02	1230720	TT	CC	CC	INTRON	101491178	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_6863_A_1230723	NC_021161.1	Ca_Kabuli_Chr02	1230723	TT	CC	CC	INTRON	101491178	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_6864_A_1231618	NC_021161.1	Ca_Kabuli_Chr02	1231618	GG	AA	AA	INTRON	101491178	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_6866_A_1257716	NC_021161.1	Ca_Kabuli_Chr02	1257716	AA	TT	TT	INTRON	101491178	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_6867_A_1303231	NC_021161.1	Ca_Kabuli_Chr02	1303231	TT	GG	GG	INTERGENIC			
SNP_6868_A_1303281	NC_021161.1	Ca_Kabuli_Chr02	1303281	AA	GG	GG	INTERGENIC			
SNP_6869_A_1303466	NC_021161.1	Ca_Kabuli_Chr02	1303466	TT	GG	GG	INTERGENIC			
SNP_6870_A_1303601	NC_021161.1	Ca_Kabuli_Chr02	1303601	GG	AA	AA	INTERGENIC			
SNP_6871_A_1313350	NC_021161.1	Ca_Kabuli_Chr02	1313350	GG	AA	AA	URR	101491808		probable receptor-like protein kinase At5g15080
SNP_6872_A_1335737	NC_021161.1	Ca_Kabuli_Chr02	1335737	TT	AA	AA	INTERGENIC			
SNP_6873_A_1387180	NC_021161.1	Ca_Kabuli_Chr02	1387180	CC	TT	TT	DRR	101494636		uncharacterized LOC101494636
SNP_6874_A_1461064	NC_021161.1	Ca_Kabuli_Chr02	1461064	TT	AA	AA	INTERGENIC			
SNP_6875_A_1461130	NC_021161.1	Ca_Kabuli_Chr02	1461130	GG	AA	AA	INTERGENIC			
SNP_6876_A_1461166	NC_021161.1	Ca_Kabuli_Chr02	1461166	AA	TT	TT	INTERGENIC			
SNP_6877_A_1461498	NC_021161.1	Ca_Kabuli_Chr02	1461498	AA	GG	GG	INTERGENIC			
SNP_6878_A_1461565	NC_021161.1	Ca_Kabuli_Chr02	1461565	CC	AA	AA	INTERGENIC			
SNP_6879_A_1461633	NC_021161.1	Ca_Kabuli_Chr02	1461633	AA	GG	GG	INTERGENIC			
SNP_6880_A_1462240	NC_021161.1	Ca_Kabuli_Chr02	1462240	AA	GG	GG	INTERGENIC			
SNP_6881_A_1462255	NC_021161.1	Ca_Kabuli_Chr02	1462255	AA	TT	TT	INTERGENIC			
SNP_6882_A_1462257	NC_021161.1	Ca_Kabuli_Chr02	1462257	CC	TT	TT	INTERGENIC			
SNP_6883_A_1462422	NC_021161.1	Ca_Kabuli_Chr02	1462422	AA	GG	GG	INTERGENIC			
SNP_6884_A_1462573	NC_021161.1	Ca_Kabuli_Chr02	1462573	GG	AA	AA	INTERGENIC			
SNP_6885_A_1486798	NC_021161.1	Ca_Kabuli_Chr02	1486798	TT	GG	GG	INTERGENIC			
SNP_6886_A_1486814	NC_021161.1	Ca_Kabuli_Chr02	1486814	CC	GG	GG	INTERGENIC			
SNP_6887_A_1487076	NC_021161.1	Ca_Kabuli_Chr02	1487076	AA	GG	GG	INTERGENIC			
SNP_6888_A_1487116	NC_021161.1	Ca_Kabuli_Chr02	1487116	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6889_A_1487149	NC_021161.1	Ca_Kabuli_Chr02	1487149	TT	GG	GG	INTERGENIC		
SNP_6890_A_1487155	NC_021161.1	Ca_Kabuli_Chr02	1487155	AA	CC	CC	INTERGENIC		
SNP_6891_A_1556527	NC_021161.1	Ca_Kabuli_Chr02	1556527	GG	AA	AA	INTERGENIC		
SNP_6893_A_1639786	NC_021161.1	Ca_Kabuli_Chr02	1639786	AA	TT	TT	INTERGENIC		
SNP_6894_A_1640042	NC_021161.1	Ca_Kabuli_Chr02	1640042	GG	TT	TT	INTERGENIC		
SNP_6895_A_1640052	NC_021161.1	Ca_Kabuli_Chr02	1640052	GG	TT	TT	INTERGENIC		
SNP_6897_A_1640387	NC_021161.1	Ca_Kabuli_Chr02	1640387	GG	TT	TT	INTERGENIC		
SNP_6898_A_1640440	NC_021161.1	Ca_Kabuli_Chr02	1640440	TT	AA	AA	INTERGENIC		
SNP_6899_A_1640449	NC_021161.1	Ca_Kabuli_Chr02	1640449	CC	TT	TT	INTERGENIC		
SNP_6900_A_1640511	NC_021161.1	Ca_Kabuli_Chr02	1640511	TT	AA	AA	INTERGENIC		
SNP_6901_A_1640532	NC_021161.1	Ca_Kabuli_Chr02	1640532	AA	TT	TT	INTERGENIC		
SNP_6902_A_1640552	NC_021161.1	Ca_Kabuli_Chr02	1640552	TT	CC	CC	INTERGENIC		
SNP_6903_A_1640907	NC_021161.1	Ca_Kabuli_Chr02	1640907	CC	GG	GG	INTERGENIC		
SNP_6904_A_1640937	NC_021161.1	Ca_Kabuli_Chr02	1640937	TT	AA	AA	INTERGENIC		
SNP_6905_A_1640955	NC_021161.1	Ca_Kabuli_Chr02	1640955	TT	CC	CC	INTERGENIC		
SNP_6906_A_1640961	NC_021161.1	Ca_Kabuli_Chr02	1640961	CC	TT	TT	INTERGENIC		
SNP_6907_A_1640970	NC_021161.1	Ca_Kabuli_Chr02	1640970	CC	TT	TT	INTERGENIC		
SNP_6908_A_1650078	NC_021161.1	Ca_Kabuli_Chr02	1650078	AA	GG	GG	URR	101501749	2-hydroxyacyl-CoA lyase
SNP_6909_A_1650101	NC_021161.1	Ca_Kabuli_Chr02	1650101	AA	TT	TT	URR	101501749	2-hydroxyacyl-CoA lyase
SNP_6910_A_1650670	NC_021161.1	Ca_Kabuli_Chr02	1650670	AA	TT	TT	URR	101501749	2-hydroxyacyl-CoA lyase
SNP_6911_A_1702706	NC_021161.1	Ca_Kabuli_Chr02	1702706	GG	AA	AA	DRR	101503341	glucuronokinase 1
SNP_6913_A_1735043	NC_021161.1	Ca_Kabuli_Chr02	1735043	CC	TT	TT	URR	101505491	DNA (cytosine-5)-methyltransferase 1B-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6916_A_1881737	NC_021161.1	Ca_Kabuli_Chr02	1881737	GG	AA	AA	INTRON	101513429	nuclear pore complex protein GP210
SNP_6918_A_1985810	NC_021161.1	Ca_Kabuli_Chr02	1985810	CC	AA	AA	INTRON	101512134	putative clathrin assembly protein At5g57200
SNP_6919_A_2060943	NC_021161.1	Ca_Kabuli_Chr02	2060943	TT	AA	AA	INTERGENIC		
SNP_6920_A_2072808	NC_021161.1	Ca_Kabuli_Chr02	2072808	TT	GG	GG	INTERGENIC		
SNP_6921_A_2073018	NC_021161.1	Ca_Kabuli_Chr02	2073018	AA	GG	GG	INTERGENIC		
SNP_6922_A_2078375	NC_021161.1	Ca_Kabuli_Chr02	2078375	CC	TT	TT	STOP_GAINED	101495058	ATPase family AAA domain-containing protein 3-B-like
SNP_6923_A_2078731	NC_021161.1	Ca_Kabuli_Chr02	2078731	CC	AA	AA	NON_SYNONYMOUS_CODING	101495058	ATPase family AAA domain-containing protein 3-B-like
SNP_6924_A_2081555	NC_021161.1	Ca_Kabuli_Chr02	2081555	AA	GG	GG	URR	101495058	ATPase family AAA domain-containing protein 3-B-like
SNP_6927_A_2169178	NC_021161.1	Ca_Kabuli_Chr02	2169178	CC	TT	TT	INTERGENIC		
SNP_6928_A_2169207	NC_021161.1	Ca_Kabuli_Chr02	2169207	AA	GG	GG	INTERGENIC		
SNP_6930_A_2278749	NC_021161.1	Ca_Kabuli_Chr02	2278749	GG	AA	AA	DRR	101503017	deoxynucleoside triphosphate triphosphohydrolase SAMHD1 homolog
SNP_6931_A_2317588	NC_021161.1	Ca_Kabuli_Chr02	2317588	CC	GG	GG	URR	101504743	deoxynucleoside triphosphate triphosphohydrolase SAMHD1 homolog
SNP_6932_A_2326382	NC_021161.1	Ca_Kabuli_Chr02	2326382	TT	CC	CC	INTERGENIC		
SNP_6933_A_2338678	NC_021161.1	Ca_Kabuli_Chr02	2338678	AA	CC	CC	INTRON	101489473	disease resistance protein RGA2-like
SNP_6935_A_2504134	NC_021161.1	Ca_Kabuli_Chr02	2504134	TT	CC	CC	SYNONYMOUS_CODING	101509558	WAT1-related protein At3g28050-like
SNP_6937_A_2561827	NC_021161.1	Ca_Kabuli_Chr02	2561827	AA	GG	GG	INTRON	101514313	protein ALTERED XYLOGLUCAN 4-like
SNP_6938_A_2568155	NC_021161.1	Ca_Kabuli_Chr02	2568155	AA	GG	GG	URR	101514313	protein ALTERED XYLOGLUCAN 4-like
SNP_6940_A_2628676	NC_021161.1	Ca_Kabuli_Chr02	2628676	GG	TT	TT	INTERGENIC		
SNP_6943_A_2811083	NC_021161.1	Ca_Kabuli_Chr02	2811083	AA	TT	TT	INTRON	101501233	ABC transporter B family member 15-like
SNP_6944_A_2852365	NC_021161.1	Ca_Kabuli_Chr02	2852365	TT	CC	CC	URR	101502187	glucose-6-phosphate isomerase, cytosolic
SNP_6945_A_2886782	NC_021161.1	Ca_Kabuli_Chr02	2886782	AA	GG	GG	INTERGENIC		
SNP_6946_A_2886789	NC_021161.1	Ca_Kabuli_Chr02	2886789	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6947_A_2910745	NC_021161.1	Ca_Kabuli_Chr02	2910745	GG	TT	TT	DRR	101488368	Unknown function
SNP_6948_A_2930153	NC_021161.1	Ca_Kabuli_Chr02	2930153	TT	CC	CC	URR	101504553	Unknown function
SNP_6949_A_2934659	NC_021161.1	Ca_Kabuli_Chr02	2934659	AA	GG	GG	INTRON	101489030	probable mitochondrial chaperone BCS1-A
SNP_6950_A_2941365	NC_021161.1	Ca_Kabuli_Chr02	2941365	CC	AA	AA	INTERGENIC		
SNP_6951_A_2941557	NC_021161.1	Ca_Kabuli_Chr02	2941557	TT	CC	CC	INTERGENIC		
SNP_6952_A_2941609	NC_021161.1	Ca_Kabuli_Chr02	2941609	CC	TT	TT	INTERGENIC		
SNP_6953_A_2950321	NC_021161.1	Ca_Kabuli_Chr02	2950321	AA	CC	CC	INTERGENIC		
SNP_6954_A_2960483	NC_021161.1	Ca_Kabuli_Chr02	2960483	CC	TT	TT	INTRON	101505277	probable mitochondrial chaperone BCS1-A
SNP_6955_A_2974843	NC_021161.1	Ca_Kabuli_Chr02	2974843	AA	GG	GG	NON_SYNONYMOUS_CODING	101505605	probable mitochondrial chaperone BCS1-A
SNP_6956_A_2974865	NC_021161.1	Ca_Kabuli_Chr02	2974865	GG	TT	TT	URR	101505605	probable mitochondrial chaperone BCS1-A
SNP_6957_A_2974900	NC_021161.1	Ca_Kabuli_Chr02	2974900	GG	AA	AA	URR	101505605	probable mitochondrial chaperone BCS1-A
SNP_6960_A_2978074	NC_021161.1	Ca_Kabuli_Chr02	2978074	AA	CC	CC	INTERGENIC		
SNP_6961_A_2984326	NC_021161.1	Ca_Kabuli_Chr02	2984326	CC	AA	AA	INTERGENIC		
SNP_6964_A_2984433	NC_021161.1	Ca_Kabuli_Chr02	2984433	AA	TT	TT	INTERGENIC		
SNP_6965_A_2984676	NC_021161.1	Ca_Kabuli_Chr02	2984676	GG	AA	AA	INTERGENIC		
SNP_6966_A_2984693	NC_021161.1	Ca_Kabuli_Chr02	2984693	CC	TT	TT	INTERGENIC		
SNP_6968_A_2985826	NC_021161.1	Ca_Kabuli_Chr02	2985826	TT	CC	CC	INTERGENIC		
SNP_6969_A_2985893	NC_021161.1	Ca_Kabuli_Chr02	2985893	TT	AA	AA	INTERGENIC		
SNP_6970_A_2985894	NC_021161.1	Ca_Kabuli_Chr02	2985894	TT	CC	CC	INTERGENIC		
SNP_6973_A_2998171	NC_021161.1	Ca_Kabuli_Chr02	2998171	GG	AA	AA	INTERGENIC		
SNP_6974_A_2998207	NC_021161.1	Ca_Kabuli_Chr02	2998207	TT	AA	AA	INTERGENIC		
SNP_6975_A_2998278	NC_021161.1	Ca_Kabuli_Chr02	2998278	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_6976_A_2998285	NC_021161.1	Ca_Kabuli_Chr02	2998285	GG	AA	AA	INTERGENIC		
SNP_6978_A_3000657	NC_021161.1	Ca_Kabuli_Chr02	3000657	AA	GG	GG	INTERGENIC		
SNP_6979_A_3000668	NC_021161.1	Ca_Kabuli_Chr02	3000668	CC	TT	TT	INTERGENIC		
SNP_6980_A_3001619	NC_021161.1	Ca_Kabuli_Chr02	3001619	AA	GG	GG	INTERGENIC		
SNP_6981_A_3001666	NC_021161.1	Ca_Kabuli_Chr02	3001666	GG	AA	AA	INTERGENIC		
SNP_6983_A_3001719	NC_021161.1	Ca_Kabuli_Chr02	3001719	TT	CC	CC	INTERGENIC		
SNP_6984_A_3005029	NC_021161.1	Ca_Kabuli_Chr02	3005029	GG	AA	AA	INTERGENIC		
SNP_6985_A_3005843	NC_021161.1	Ca_Kabuli_Chr02	3005843	AA	GG	GG	INTERGENIC		
SNP_6986_A_3006049	NC_021161.1	Ca_Kabuli_Chr02	3006049	CC	AA	AA	INTERGENIC		
SNP_6987_A_3006438	NC_021161.1	Ca_Kabuli_Chr02	3006438	CC	GG	GG	INTERGENIC		
SNP_6988_A_3007660	NC_021161.1	Ca_Kabuli_Chr02	3007660	TT	CC	CC	DRR	101506242	xylosyltransferase
SNP_6989_A_3008277	NC_021161.1	Ca_Kabuli_Chr02	3008277	TT	CC	CC	SYNONYMOUS_CODING	101506242	xylosyltransferase
SNP_6992_A_3012640	NC_021161.1	Ca_Kabuli_Chr02	3012640	AA	CC	CC	URR	101506242	xylosyltransferase
SNP_6994_A_3022822	NC_021161.1	Ca_Kabuli_Chr02	3022822	GG	TT	TT	INTERGENIC		
SNP_6997_A_3025502	NC_021161.1	Ca_Kabuli_Chr02	3025502	CC	TT	TT	INTERGENIC		
SNP_6998_A_3026635	NC_021161.1	Ca_Kabuli_Chr02	3026635	TT	GG	GG	INTERGENIC		
SNP_6999_A_3026636	NC_021161.1	Ca_Kabuli_Chr02	3026636	AA	GG	GG	INTERGENIC		
SNP_7000_A_3026654	NC_021161.1	Ca_Kabuli_Chr02	3026654	TT	AA	AA	INTERGENIC		
SNP_7001_A_3026656	NC_021161.1	Ca_Kabuli_Chr02	3026656	AA	TT	TT	INTERGENIC		
SNP_7002_A_3026947	NC_021161.1	Ca_Kabuli_Chr02	3026947	GG	AA	AA	DRR	101490345	Unknown function
SNP_7003_A_3029358	NC_021161.1	Ca_Kabuli_Chr02	3029358	TT	GG	GG	URR	101490345	Unknown function
SNP_7005_A_3029479	NC_021161.1	Ca_Kabuli_Chr02	3029479	AA	TT	TT	URR	101490345	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7006_A_3029714	NC_021161.1	Ca_Kabuli_Chr02	3029714	GG	CC	CC	URR	101490345	Unknown function
SNP_7007_A_3029821	NC_021161.1	Ca_Kabuli_Chr02	3029821	AA	GG	GG	URR	101490345	Unknown function
SNP_7009_A_3030953	NC_021161.1	Ca_Kabuli_Chr02	3030953	GG	CC	CC	INTERGENIC		
SNP_7010_A_3031173	NC_021161.1	Ca_Kabuli_Chr02	3031173	GG	AA	AA	INTERGENIC		
SNP_7011_A_3031197	NC_021161.1	Ca_Kabuli_Chr02	3031197	GG	CC	CC	INTERGENIC		
SNP_7013_A_3031310	NC_021161.1	Ca_Kabuli_Chr02	3031310	TT	AA	AA	INTERGENIC		
SNP_7014_A_3031347	NC_021161.1	Ca_Kabuli_Chr02	3031347	GG	AA	AA	INTERGENIC		
SNP_7015_A_3031361	NC_021161.1	Ca_Kabuli_Chr02	3031361	GG	CC	CC	INTERGENIC		
SNP_7016_A_3031624	NC_021161.1	Ca_Kabuli_Chr02	3031624	AA	CC	CC	INTERGENIC		
SNP_7017_A_3031697	NC_021161.1	Ca_Kabuli_Chr02	3031697	AA	GG	GG	INTERGENIC		
SNP_7018_A_3031726	NC_021161.1	Ca_Kabuli_Chr02	3031726	GG	AA	AA	INTERGENIC		
SNP_7020_A_3033169	NC_021161.1	Ca_Kabuli_Chr02	3033169	AA	TT	TT	INTERGENIC		
SNP_7021_A_3034643	NC_021161.1	Ca_Kabuli_Chr02	3034643	GG	TT	TT	DRR	101506571	uncharacterized LOC101506571
SNP_7022_A_3037165	NC_021161.1	Ca_Kabuli_Chr02	3037165	CC	TT	TT	INTRON	101506571	uncharacterized LOC101506571
SNP_7024_A_3041980	NC_021161.1	Ca_Kabuli_Chr02	3041980	AA	GG	GG	INTERGENIC		
SNP_7025_A_3042020	NC_021161.1	Ca_Kabuli_Chr02	3042020	CC	TT	TT	INTERGENIC		
SNP_7027_A_3045020	NC_021161.1	Ca_Kabuli_Chr02	3045020	TT	AA	AA	INTRON	101506908	uncharacterized LOC101506908
SNP_7028_A_3047089	NC_021161.1	Ca_Kabuli_Chr02	3047089	TT	AA	AA	INTRON	101506908	uncharacterized LOC101506908
SNP_7029_A_3047102	NC_021161.1	Ca_Kabuli_Chr02	3047102	CC	AA	AA	INTRON	101506908	uncharacterized LOC101506908
SNP_7031_A_3047241	NC_021161.1	Ca_Kabuli_Chr02	3047241	CC	TT	TT	INTRON	101506908	uncharacterized LOC101506908
SNP_7032_A_3047449	NC_021161.1	Ca_Kabuli_Chr02	3047449	AA	GG	GG	INTRON	101506908	uncharacterized LOC101506908
SNP_7033_A_3047579	NC_021161.1	Ca_Kabuli_Chr02	3047579	GG	CC	CC	INTRON	101506908	uncharacterized LOC101506908

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7034_A_3047580	NC_021161.1	Ca_Kabuli_Chr02	3047580	AA	CC	CC	INTRON	101506908	uncharacterized LOC101506908
SNP_7035_A_3047601	NC_021161.1	Ca_Kabuli_Chr02	3047601	AA	TT	TT	INTRON	101506908	uncharacterized LOC101506908
SNP_7037_A_3050295	NC_021161.1	Ca_Kabuli_Chr02	3050295	AA	GG	GG	INTERGENIC		
SNP_7038_A_3050871	NC_021161.1	Ca_Kabuli_Chr02	3050871	CC	TT	TT	DRR	101507767	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_7039_A_3052253	NC_021161.1	Ca_Kabuli_Chr02	3052253	GG	CC	CC	INTERGENIC		
SNP_7040_A_3052305	NC_021161.1	Ca_Kabuli_Chr02	3052305	CC	GG	GG	INTERGENIC		
SNP_7041_A_3052312	NC_021161.1	Ca_Kabuli_Chr02	3052312	TT	CC	CC	INTERGENIC		
SNP_7042_A_3052350	NC_021161.1	Ca_Kabuli_Chr02	3052350	CC	TT	TT	INTERGENIC		
SNP_7043_A_3087744	NC_021161.1	Ca_Kabuli_Chr02	3087744	GG	AA	AA	URR	101507767	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_7044_A_3088783	NC_021161.1	Ca_Kabuli_Chr02	3088783	CC	TT	TT	URR	101490661	Unknown function
SNP_7045_A_3089832	NC_021161.1	Ca_Kabuli_Chr02	3089832	AA	CC	CC	DRR	101508090	probable receptor-like protein kinase At5g15080
SNP_7046_A_3090550	NC_021161.1	Ca_Kabuli_Chr02	3090550	TT	GG	GG	INTERGENIC		
SNP_7048_A_3091460	NC_021161.1	Ca_Kabuli_Chr02	3091460	GG	TT	TT	INTRON	101508090	probable receptor-like protein kinase At5g15080
SNP_7050_A_3098030	NC_021161.1	Ca_Kabuli_Chr02	3098030	GG	CC	CC	DRR	101508404	hypersensitive-induced response protein 2-like
SNP_7051_A_3098043	NC_021161.1	Ca_Kabuli_Chr02	3098043	CC	AA	AA	DRR	101508404	hypersensitive-induced response protein 2-like
SNP_7053_A_3099236	NC_021161.1	Ca_Kabuli_Chr02	3099236	GG	AA	AA	INTERGENIC		
SNP_7054_A_3099384	NC_021161.1	Ca_Kabuli_Chr02	3099384	CC	TT	TT	INTERGENIC		
SNP_7056_A_3100116	NC_021161.1	Ca_Kabuli_Chr02	3100116	AA	GG	GG	INTERGENIC		
SNP_7057_A_3100573	NC_021161.1	Ca_Kabuli_Chr02	3100573	CC	TT	TT	INTERGENIC		
SNP_7058_A_3100960	NC_021161.1	Ca_Kabuli_Chr02	3100960	CC	TT	TT	INTERGENIC		
SNP_7059_A_3102145	NC_021161.1	Ca_Kabuli_Chr02	3102145	GG	AA	AA	INTERGENIC		
SNP_7060_A_3102146	NC_021161.1	Ca_Kabuli_Chr02	3102146	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7061_A_3102154	NC_021161.1	Ca_Kabuli_Chr02	3102154	TT	CC	CC	INTERGENIC		
SNP_7062_A_3102483	NC_021161.1	Ca_Kabuli_Chr02	3102483	TT	GG	GG	URR	101508404	hypersensitive-induced response protein 2-like
SNP_7063_A_3102504	NC_021161.1	Ca_Kabuli_Chr02	3102504	CC	TT	TT	URR	101508404	hypersensitive-induced response protein 2-like
SNP_7064_A_3104093	NC_021161.1	Ca_Kabuli_Chr02	3104093	AA	TT	TT	DRR	101508714	outer plastidial membrane protein porin-like
SNP_7066_A_3107490	NC_021161.1	Ca_Kabuli_Chr02	3107490	CC	TT	TT	INTERGENIC		
SNP_7067_A_3107521	NC_021161.1	Ca_Kabuli_Chr02	3107521	GG	AA	AA	INTERGENIC		
SNP_7068_A_3108778	NC_021161.1	Ca_Kabuli_Chr02	3108778	AA	GG	GG	URR	101508714	outer plastidial membrane protein porin-like
SNP_7069_A_3108928	NC_021161.1	Ca_Kabuli_Chr02	3108928	CC	TT	TT	URR	101508714	outer plastidial membrane protein porin-like
SNP_7070_A_3108938	NC_021161.1	Ca_Kabuli_Chr02	3108938	CC	AA	AA	URR	101508714	outer plastidial membrane protein porin-like
SNP_7071_A_3108947	NC_021161.1	Ca_Kabuli_Chr02	3108947	TT	CC	CC	URR	101508714	outer plastidial membrane protein porin-like
SNP_7072_A_3111727	NC_021161.1	Ca_Kabuli_Chr02	3111727	GG	AA	AA	INTRON	101509031	putative auxin efflux carrier component 5
SNP_7073_A_3112429	NC_021161.1	Ca_Kabuli_Chr02	3112429	CC	TT	TT	INTRON	101509031	putative auxin efflux carrier component 5
SNP_7074_A_3112433	NC_021161.1	Ca_Kabuli_Chr02	3112433	TT	CC	CC	INTRON	101509031	putative auxin efflux carrier component 5
SNP_7075_A_3112470	NC_021161.1	Ca_Kabuli_Chr02	3112470	GG	AA	AA	INTRON	101509031	putative auxin efflux carrier component 5
SNP_7077_A_3113514	NC_021161.1	Ca_Kabuli_Chr02	3113514	GG	AA	AA	INTERGENIC		
SNP_7078_A_3117588	NC_021161.1	Ca_Kabuli_Chr02	3117588	CC	TT	TT	DRR	101509352	pectate lyase-like
SNP_7079_A_3117638	NC_021161.1	Ca_Kabuli_Chr02	3117638	AA	GG	GG	DRR	101509352	pectate lyase-like
SNP_7080_A_3117648	NC_021161.1	Ca_Kabuli_Chr02	3117648	AA	GG	GG	DRR	101509352	pectate lyase-like
SNP_7081_A_3117667	NC_021161.1	Ca_Kabuli_Chr02	3117667	TT	CC	CC	DRR	101509352	pectate lyase-like
SNP_7083_A_3120012	NC_021161.1	Ca_Kabuli_Chr02	3120012	AA	TT	TT	INTERGENIC		
SNP_7084_A_3121183	NC_021161.1	Ca_Kabuli_Chr02	3121183	AA	TT	TT	DRR	101509674	CRIB domain-containing protein RIC10-like
SNP_7085_A_3121241	NC_021161.1	Ca_Kabuli_Chr02	3121241	GG	CC	CC	DRR	101509674	CRIB domain-containing protein RIC10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7086_A_3121253	NC_021161.1	Ca_Kabuli_Chr02	3121253	TT	AA	AA	DRR	101509674	CRIB domain-containing protein RIC10-like
SNP_7087_A_3123557	NC_021161.1	Ca_Kabuli_Chr02	3123557	CC	TT	TT	INTRON	101509674	CRIB domain-containing protein RIC10-like
SNP_7088_A_3123865	NC_021161.1	Ca_Kabuli_Chr02	3123865	TT	CC	CC	INTRON	101509674	CRIB domain-containing protein RIC10-like
SNP_7089_A_3124797	NC_021161.1	Ca_Kabuli_Chr02	3124797	GG	TT	TT	INTRON	101509674	CRIB domain-containing protein RIC10-like
SNP_7090_A_3125888	NC_021161.1	Ca_Kabuli_Chr02	3125888	CC	TT	TT	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7091_A_3125920	NC_021161.1	Ca_Kabuli_Chr02	3125920	AA	GG	GG	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7092_A_3125934	NC_021161.1	Ca_Kabuli_Chr02	3125934	CC	TT	TT	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7093_A_3125966	NC_021161.1	Ca_Kabuli_Chr02	3125966	CC	TT	TT	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7094_A_3125972	NC_021161.1	Ca_Kabuli_Chr02	3125972	CC	AA	AA	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7095_A_3125975	NC_021161.1	Ca_Kabuli_Chr02	3125975	GG	AA	AA	URR	101509674	CRIB domain-containing protein RIC10-like
SNP_7097_A_3129170	NC_021161.1	Ca_Kabuli_Chr02	3129170	AA	GG	GG	INTERGENIC		
SNP_7098_A_3129216	NC_021161.1	Ca_Kabuli_Chr02	3129216	TT	GG	GG	INTERGENIC		
SNP_7099_A_3129220	NC_021161.1	Ca_Kabuli_Chr02	3129220	GG	AA	AA	INTERGENIC		
SNP_7100_A_3132579	NC_021161.1	Ca_Kabuli_Chr02	3132579	CC	AA	AA	INTRON	101509997	polyadenylation and cleavage factor homolog 4
SNP_7101_A_3137235	NC_021161.1	Ca_Kabuli_Chr02	3137235	AA	GG	GG	DRR	101510315	uncharacterized LOC101510315
SNP_7102_A_3137510	NC_021161.1	Ca_Kabuli_Chr02	3137510	TT	CC	CC	DRR	101510315	uncharacterized LOC101510315
SNP_7103_A_3138991	NC_021161.1	Ca_Kabuli_Chr02	3138991	CC	TT	TT	INTERGENIC		
SNP_7104_A_3139284	NC_021161.1	Ca_Kabuli_Chr02	3139284	GG	AA	AA	INTERGENIC		
SNP_7105_A_3143625	NC_021161.1	Ca_Kabuli_Chr02	3143625	CC	TT	TT	INTERGENIC		
SNP_7106_A_3143724	NC_021161.1	Ca_Kabuli_Chr02	3143724	AA	GG	GG	INTERGENIC		
SNP_7107_A_3145752	NC_021161.1	Ca_Kabuli_Chr02	3145752	GG	CC	CC	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7108_A_3146068	NC_021161.1	Ca_Kabuli_Chr02	3146068	TT	AA	AA	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7109_A_3146075	NC_021161.1	Ca_Kabuli_Chr02	3146075	AA	GG	GG	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7110_A_3147488	NC_021161.1	Ca_Kabuli_Chr02	3147488	GG	AA	AA	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7111_A_3147498	NC_021161.1	Ca_Kabuli_Chr02	3147498	CC	TT	TT	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7112_A_3147555	NC_021161.1	Ca_Kabuli_Chr02	3147555	GG	AA	AA	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7113_A_3147616	NC_021161.1	Ca_Kabuli_Chr02	3147616	TT	CC	CC	URR	101510651	AP2-like ethylene-responsive transcription factor At1g79700
SNP_7114_A_3147672	NC_021161.1	Ca_Kabuli_Chr02	3147672	TT	CC	CC	INTERGENIC		
SNP_7115_A_3148385	NC_021161.1	Ca_Kabuli_Chr02	3148385	TT	CC	CC	DRR	101510972	F-box/WD repeat-containing protein 7-like
SNP_7116_A_3148387	NC_021161.1	Ca_Kabuli_Chr02	3148387	TT	AA	AA	DRR	101510972	F-box/WD repeat-containing protein 7-like
SNP_7117_A_3149277	NC_021161.1	Ca_Kabuli_Chr02	3149277	AA	GG	GG	INTRON	101510972	F-box/WD repeat-containing protein 7-like
SNP_7120_A_3156912	NC_021161.1	Ca_Kabuli_Chr02	3156912	CC	AA	AA	INTERGENIC		
SNP_7121_A_3157524	NC_021161.1	Ca_Kabuli_Chr02	3157524	CC	TT	TT	INTERGENIC		
SNP_7124_A_3161104	NC_021161.1	Ca_Kabuli_Chr02	3161104	TT	CC	CC	INTRON	101511281	plant cysteine oxidase 2
SNP_7125_A_3161106	NC_021161.1	Ca_Kabuli_Chr02	3161106	AA	GG	GG	INTRON	101511281	plant cysteine oxidase 2
SNP_7126_A_3161178	NC_021161.1	Ca_Kabuli_Chr02	3161178	AA	TT	TT	INTRON	101511281	plant cysteine oxidase 2
SNP_7128_A_3164807	NC_021161.1	Ca_Kabuli_Chr02	3164807	TT	CC	CC	URR	101511281	plant cysteine oxidase 2
SNP_7129_A_3164839	NC_021161.1	Ca_Kabuli_Chr02	3164839	CC	TT	TT	URR	101511281	plant cysteine oxidase 2
SNP_7130_A_3166152	NC_021161.1	Ca_Kabuli_Chr02	3166152	CC	AA	AA	URR	101511281	plant cysteine oxidase 2
SNP_7133_A_3170478	NC_021161.1	Ca_Kabuli_Chr02	3170478	CC	TT	TT	INTRON	101490985	aldose 1-epimerase-like
SNP_7134_A_3170790	NC_021161.1	Ca_Kabuli_Chr02	3170790	AA	GG	GG	INTRON	101490985	aldose 1-epimerase-like
SNP_7135_A_3171224	NC_021161.1	Ca_Kabuli_Chr02	3171224	AA	GG	GG	NON_SYNONYMOUS_CODING	101490985	aldose 1-epimerase-like
SNP_7136_A_3171310	NC_021161.1	Ca_Kabuli_Chr02	3171310	AA	TT	TT	INTRON	101490985	aldose 1-epimerase-like
SNP_7137_A_3171311	NC_021161.1	Ca_Kabuli_Chr02	3171311	TT	CC	CC	INTRON	101490985	aldose 1-epimerase-like

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SNP_7138_A_3171506	NC_021161.1	Ca_Kabuli_Chr02	3171506	TT	CC	CC	INTRON	101490985	aldose 1-epimerase-like
SNP_7139_A_3173362	NC_021161.1	Ca_Kabuli_Chr02	3173362	GG	AA	AA	URR	101490985	aldose 1-epimerase-like
SNP_7140_A_3174113	NC_021161.1	Ca_Kabuli_Chr02	3174113	AA	GG	GG	DRR	101511600	uncharacterized LOC101511600
SNP_7141_A_3174131	NC_021161.1	Ca_Kabuli_Chr02	3174131	AA	GG	GG	DRR	101511600	uncharacterized LOC101511600
SNP_7142_A_3174160	NC_021161.1	Ca_Kabuli_Chr02	3174160	AA	TT	TT	DRR	101511600	uncharacterized LOC101511600
SNP_7143_A_3174264	NC_021161.1	Ca_Kabuli_Chr02	3174264	AA	GG	GG	DRR	101511600	uncharacterized LOC101511600
SNP_7144_A_3175693	NC_021161.1	Ca_Kabuli_Chr02	3175693	GG	AA	AA	INTERGENIC		
SNP_7145_A_3175724	NC_021161.1	Ca_Kabuli_Chr02	3175724	TT	CC	CC	INTERGENIC		
SNP_7146_A_3175731	NC_021161.1	Ca_Kabuli_Chr02	3175731	GG	AA	AA	INTERGENIC		
SNP_7147_A_3182395	NC_021161.1	Ca_Kabuli_Chr02	3182395	TT	AA	AA	DRR	101491297	probable serine/threonine-protein kinase NAK
SNP_7148_A_3182415	NC_021161.1	Ca_Kabuli_Chr02	3182415	AA	CC	CC	DRR	101491297	probable serine/threonine-protein kinase NAK
SNP_7149_A_3183425	NC_021161.1	Ca_Kabuli_Chr02	3183425	TT	CC	CC	INTERGENIC		
SNP_7150_A_3183432	NC_021161.1	Ca_Kabuli_Chr02	3183432	TT	CC	CC	INTERGENIC		
SNP_7151_A_3183456	NC_021161.1	Ca_Kabuli_Chr02	3183456	AA	GG	GG	INTERGENIC		
SNP_7152_A_3183493	NC_021161.1	Ca_Kabuli_Chr02	3183493	GG	AA	AA	INTERGENIC		
SNP_7153_A_3183500	NC_021161.1	Ca_Kabuli_Chr02	3183500	GG	AA	AA	INTERGENIC		
SNP_7154_A_3183511	NC_021161.1	Ca_Kabuli_Chr02	3183511	CC	TT	TT	INTERGENIC		
SNP_7155_A_3183689	NC_021161.1	Ca_Kabuli_Chr02	3183689	TT	AA	AA	INTERGENIC		
SNP_7156_A_3183697	NC_021161.1	Ca_Kabuli_Chr02	3183697	TT	AA	AA	INTERGENIC		
SNP_7157_A_3183717	NC_021161.1	Ca_Kabuli_Chr02	3183717	AA	GG	GG	INTERGENIC		
SNP_7159_A_3184428	NC_021161.1	Ca_Kabuli_Chr02	3184428	GG	AA	AA	INTRON	101491297	probable serine/threonine-protein kinase NAK
SNP_7160_A_3184822	NC_021161.1	Ca_Kabuli_Chr02	3184822	CC	TT	TT	SYNONYMOUS_CODING	101491297	probable serine/threonine-protein kinase NAK

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7161_A_3185205	NC_021161.1	Ca_Kabuli_Chr02	3185205	AA	CC	CC	INTRON	101491297	probable serine/threonine-protein kinase NAK
SNP_7163_A_3186566	NC_021161.1	Ca_Kabuli_Chr02	3186566	AA	TT	TT	INTRON	101491297	probable serine/threonine-protein kinase NAK
SNP_7164_A_3186568	NC_021161.1	Ca_Kabuli_Chr02	3186568	TT	GG	GG	INTRON	101491297	probable serine/threonine-protein kinase NAK
SNP_7165_A_3186572	NC_021161.1	Ca_Kabuli_Chr02	3186572	AA	TT	TT	INTRON	101491297	probable serine/threonine-protein kinase NAK
SNP_7166_A_3188243	NC_021161.1	Ca_Kabuli_Chr02	3188243	TT	AA	AA	URR	101491297	probable serine/threonine-protein kinase NAK
SNP_7167_A_3188279	NC_021161.1	Ca_Kabuli_Chr02	3188279	CC	AA	AA	URR	101491297	probable serine/threonine-protein kinase NAK
SNP_7168_A_3188421	NC_021161.1	Ca_Kabuli_Chr02	3188421	TT	AA	AA	URR	101491297	probable serine/threonine-protein kinase NAK
SNP_7169_A_3189023	NC_021161.1	Ca_Kabuli_Chr02	3189023	TT	GG	GG	URR	101491297	probable serine/threonine-protein kinase NAK
SNP_7170_A_3189048	NC_021161.1	Ca_Kabuli_Chr02	3189048	TT	CC	CC	URR	101491297	probable serine/threonine-protein kinase NAK
SNP_7171_A_3191737	NC_021161.1	Ca_Kabuli_Chr02	3191737	CC	GG	GG	INTERGENIC		
SNP_7174_A_3200309	NC_021161.1	Ca_Kabuli_Chr02	3200309	CC	TT	TT	INTERGENIC		
SNP_7175_A_3200332	NC_021161.1	Ca_Kabuli_Chr02	3200332	CC	TT	TT	INTERGENIC		
SNP_7176_A_3200351	NC_021161.1	Ca_Kabuli_Chr02	3200351	TT	AA	AA	INTERGENIC		
SNP_7177_A_3200359	NC_021161.1	Ca_Kabuli_Chr02	3200359	AA	GG	GG	INTERGENIC		
SNP_7181_A_3201015	NC_021161.1	Ca_Kabuli_Chr02	3201015	GG	AA	AA	DRR	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7182_A_3201089	NC_021161.1	Ca_Kabuli_Chr02	3201089	GG	AA	AA	DRR	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7183_A_3201396	NC_021161.1	Ca_Kabuli_Chr02	3201396	TT	CC	CC	DRR	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7184_A_3202075	NC_021161.1	Ca_Kabuli_Chr02	3202075	AA	TT	TT	DRR	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7186_A_3203078	NC_021161.1	Ca_Kabuli_Chr02	3203078	AA	TT	TT	INTRON	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7187_A_3204099	NC_021161.1	Ca_Kabuli_Chr02	3204099	GG	AA	AA	SYNONYMOUS_CODING	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7188_A_3204247	NC_021161.1	Ca_Kabuli_Chr02	3204247	TT	GG	GG	INTRON	101511925	homeobox-leucine zipper protein HAT7-like
SNP_7189_A_3204280	NC_021161.1	Ca_Kabuli_Chr02	3204280	GG	AA	AA	INTRON	101511925	homeobox-leucine zipper protein HAT7-like

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SNP_7191_A_3220986	NC_021161.1	Ca_Kabuli_Chr02	3220986	AA	TT	TT	INTERGENIC		
SNP_7192_A_3229240	NC_021161.1	Ca_Kabuli_Chr02	3229240	AA	CC	CC	INTERGENIC		
SNP_7193_A_3243096	NC_021161.1	Ca_Kabuli_Chr02	3243096	TT	CC	CC	INTERGENIC		
SNP_7194_A_3312376	NC_021161.1	Ca_Kabuli_Chr02	3312376	AA	TT	TT	INTERGENIC		
SNP_7195_A_3312380	NC_021161.1	Ca_Kabuli_Chr02	3312380	TT	GG	GG	INTERGENIC		
SNP_7196_A_3321731	NC_021161.1	Ca_Kabuli_Chr02	3321731	TT	CC	CC	INTRON	101514404	protease Do-like 8, chloroplastic
SNP_7197_A_3403853	NC_021161.1	Ca_Kabuli_Chr02	3403853	CC	AA	AA	INTERGENIC		
SNP_7198_A_3403860	NC_021161.1	Ca_Kabuli_Chr02	3403860	CC	TT	TT	INTERGENIC		
SNP_7199_A_3404047	NC_021161.1	Ca_Kabuli_Chr02	3404047	GG	AA	AA	INTERGENIC		
SNP_7200_A_3464758	NC_021161.1	Ca_Kabuli_Chr02	3464758	TT	CC	CC	INTERGENIC		
SNP_7201_A_3464830	NC_021161.1	Ca_Kabuli_Chr02	3464830	GG	AA	AA	INTERGENIC		
SNP_7202_A_3465184	NC_021161.1	Ca_Kabuli_Chr02	3465184	TT	CC	CC	INTERGENIC		
SNP_7203_A_3465368	NC_021161.1	Ca_Kabuli_Chr02	3465368	TT	CC	CC	INTERGENIC		
SNP_7204_A_3465370	NC_021161.1	Ca_Kabuli_Chr02	3465370	CC	TT	TT	INTERGENIC		
SNP_7205_A_3465379	NC_021161.1	Ca_Kabuli_Chr02	3465379	GG	AA	AA	INTERGENIC		
SNP_7206_A_3465395	NC_021161.1	Ca_Kabuli_Chr02	3465395	CC	AA	AA	INTERGENIC		
SNP_7207_A_3465396	NC_021161.1	Ca_Kabuli_Chr02	3465396	GG	CC	CC	INTERGENIC		
SNP_7208_A_3532699	NC_021161.1	Ca_Kabuli_Chr02	3532699	AA	GG	GG	DRR	101492037	KH domain-containing protein At4g18375
SNP_7209_A_3541973	NC_021161.1	Ca_Kabuli_Chr02	3541973	AA	GG	GG	DRR	101492811	uncharacterized LOC101492811
SNP_7210_A_3576278	NC_021161.1	Ca_Kabuli_Chr02	3576278	TT	AA	AA	INTERGENIC		
SNP_7212_A_3667385	NC_021161.1	Ca_Kabuli_Chr02	3667385	AA	TT	TT	URR	101496701	vesicle transport v-SNARE 13
SNP_7213_A_3704030	NC_021161.1	Ca_Kabuli_Chr02	3704030	AA	TT	TT	URR	101497668	SNF1-related protein kinase catalytic subunit alpha KIN10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7214_A_3704522	NC_021161.1	Ca_Kabuli_Chr02	3704522	GG	CC	CC	URR	101497668	SNF1-related protein kinase catalytic subunit alpha KIN10-like
SNP_7215_A_3705840	NC_021161.1	Ca_Kabuli_Chr02	3705840	CC	AA	AA	DRR	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7216_A_3707733	NC_021161.1	Ca_Kabuli_Chr02	3707733	GG	AA	AA	INTRON	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7217_A_3709479	NC_021161.1	Ca_Kabuli_Chr02	3709479	CC	TT	TT	INTRON	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7218_A_3709480	NC_021161.1	Ca_Kabuli_Chr02	3709480	GG	CC	CC	INTRON	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7219_A_3710706	NC_021161.1	Ca_Kabuli_Chr02	3710706	CC	TT	TT	URR	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7220_A_3710711	NC_021161.1	Ca_Kabuli_Chr02	3710711	AA	GG	GG	URR	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7221_A_3711293	NC_021161.1	Ca_Kabuli_Chr02	3711293	AA	CC	CC	URR	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7222_A_3711410	NC_021161.1	Ca_Kabuli_Chr02	3711410	TT	CC	CC	URR	101497998	probable serine/threonine-protein kinase At1g54610
SNP_7223_A_3718775	NC_021161.1	Ca_Kabuli_Chr02	3718775	AA	CC	CC	INTERGENIC		
SNP_7224_A_3722214	NC_021161.1	Ca_Kabuli_Chr02	3722214	AA	CC	CC	INTERGENIC		
SNP_7225_A_3722217	NC_021161.1	Ca_Kabuli_Chr02	3722217	TT	AA	AA	INTERGENIC		
SNP_7228_A_3724401	NC_021161.1	Ca_Kabuli_Chr02	3724401	GG	CC	CC	INTERGENIC		
SNP_7229_A_3724462	NC_021161.1	Ca_Kabuli_Chr02	3724462	GG	AA	AA	INTERGENIC		
SNP_7230_A_3732353	NC_021161.1	Ca_Kabuli_Chr02	3732353	TT	CC	CC	INTRON	101498327	purple acid phosphatase 23
SNP_7231_A_3732386	NC_021161.1	Ca_Kabuli_Chr02	3732386	AA	CC	CC	INTRON	101498327	purple acid phosphatase 23
SNP_7232_A_3732407	NC_021161.1	Ca_Kabuli_Chr02	3732407	TT	CC	CC	INTRON	101498327	purple acid phosphatase 23
SNP_7233_A_3732411	NC_021161.1	Ca_Kabuli_Chr02	3732411	AA	GG	GG	INTRON	101498327	purple acid phosphatase 23
SNP_7234_A_3732413	NC_021161.1	Ca_Kabuli_Chr02	3732413	AA	GG	GG	INTRON	101498327	purple acid phosphatase 23
SNP_7236_A_3733560	NC_021161.1	Ca_Kabuli_Chr02	3733560	TT	CC	CC	INTERGENIC		
SNP_7237_A_3737231	NC_021161.1	Ca_Kabuli_Chr02	3737231	TT	CC	CC	DRR	101498671	uncharacterized LOC101498671
SNP_7238_A_3737233	NC_021161.1	Ca_Kabuli_Chr02	3737233	GG	TT	TT	DRR	101498671	uncharacterized LOC101498671

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7239_A_3739381	NC_021161.1	Ca_Kabuli_Chr02	3739381	CC	AA	AA	INTERGENIC		
SNP_7240_A_3739407	NC_021161.1	Ca_Kabuli_Chr02	3739407	AA	CC	CC	INTERGENIC		
SNP_7241_A_3739947	NC_021161.1	Ca_Kabuli_Chr02	3739947	CC	AA	AA	INTERGENIC		
SNP_7242_A_3740208	NC_021161.1	Ca_Kabuli_Chr02	3740208	AA	GG	GG	INTERGENIC		
SNP_7243_A_3740226	NC_021161.1	Ca_Kabuli_Chr02	3740226	GG	AA	AA	INTERGENIC		
SNP_7245_A_3742492	NC_021161.1	Ca_Kabuli_Chr02	3742492	CC	TT	TT	URR	101498671	uncharacterized LOC101498671
SNP_7247_A_3743148	NC_021161.1	Ca_Kabuli_Chr02	3743148	CC	AA	AA	URR	101498671	uncharacterized LOC101498671
SNP_7248_A_3743188	NC_021161.1	Ca_Kabuli_Chr02	3743188	TT	AA	AA	INTRON	101499436	lamin-like protein
SNP_7249_A_3743313	NC_021161.1	Ca_Kabuli_Chr02	3743313	GG	TT	TT	INTRON	101499436	lamin-like protein
SNP_7250_A_3743499	NC_021161.1	Ca_Kabuli_Chr02	3743499	TT	CC	CC	INTRON	101499436	lamin-like protein
SNP_7251_A_3743510	NC_021161.1	Ca_Kabuli_Chr02	3743510	TT	CC	CC	INTRON	101499436	lamin-like protein
SNP_7252_A_3743626	NC_021161.1	Ca_Kabuli_Chr02	3743626	AA	CC	CC	INTRON	101499436	lamin-like protein
SNP_7253_A_3743810	NC_021161.1	Ca_Kabuli_Chr02	3743810	GG	CC	CC	INTRON	101499436	lamin-like protein
SNP_7255_A_3744075	NC_021161.1	Ca_Kabuli_Chr02	3744075	TT	AA	AA	INTRON	101499436	lamin-like protein
SNP_7256_A_3744414	NC_021161.1	Ca_Kabuli_Chr02	3744414	TT	CC	CC	INTRON	101499436	lamin-like protein
SNP_7257_A_3744443	NC_021161.1	Ca_Kabuli_Chr02	3744443	CC	TT	TT	INTRON	101499436	lamin-like protein
SNP_7258_A_3745135	NC_021161.1	Ca_Kabuli_Chr02	3745135	AA	TT	TT	URR	101499436	lamin-like protein
SNP_7261_A_3746515	NC_021161.1	Ca_Kabuli_Chr02	3746515	AA	GG	GG	URR	101499436	lamin-like protein
SNP_7262_A_3746960	NC_021161.1	Ca_Kabuli_Chr02	3746960	CC	TT	TT	INTERGENIC		
SNP_7263_A_3746969	NC_021161.1	Ca_Kabuli_Chr02	3746969	GG	AA	AA	INTERGENIC		
SNP_7264_A_3746972	NC_021161.1	Ca_Kabuli_Chr02	3746972	CC	TT	TT	INTERGENIC		
SNP_7266_A_3755011	NC_021161.1	Ca_Kabuli_Chr02	3755011	GG	AA	AA	URR	101499743	uncharacterized LOC101499743

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7267_A_3759776	NC_021161.1	Ca_Kabuli_Chr02	3759776	AA	GG	GG	INTERGENIC		
SNP_7269_A_3761723	NC_021161.1	Ca_Kabuli_Chr02	3761723	TT	AA	AA	URR	101500389	lamin-like protein
SNP_7270_A_3761948	NC_021161.1	Ca_Kabuli_Chr02	3761948	CC	AA	AA	URR	101500389	lamin-like protein
SNP_7271_A_3762991	NC_021161.1	Ca_Kabuli_Chr02	3762991	GG	AA	AA	URR	101500389	lamin-like protein
SNP_7272_A_3764253	NC_021161.1	Ca_Kabuli_Chr02	3764253	AA	TT	TT	INTERGENIC		
SNP_7273_A_3766359	NC_021161.1	Ca_Kabuli_Chr02	3766359	TT	AA	AA	INTERGENIC		
SNP_7275_A_3768314	NC_021161.1	Ca_Kabuli_Chr02	3768314	CC	TT	TT	INTERGENIC		
SNP_7276_A_3768654	NC_021161.1	Ca_Kabuli_Chr02	3768654	TT	AA	AA	INTERGENIC		
SNP_7277_A_3769397	NC_021161.1	Ca_Kabuli_Chr02	3769397	CC	AA	AA	INTERGENIC		
SNP_7278_A_3770009	NC_021161.1	Ca_Kabuli_Chr02	3770009	GG	AA	AA	INTERGENIC		
SNP_7280_A_3771455	NC_021161.1	Ca_Kabuli_Chr02	3771455	TT	GG	GG	DRR	101500698	chorismate mutase 1, chloroplastic
SNP_7281_A_3771456	NC_021161.1	Ca_Kabuli_Chr02	3771456	GG	AA	AA	DRR	101500698	chorismate mutase 1, chloroplastic
SNP_7283_A_3777364	NC_021161.1	Ca_Kabuli_Chr02	3777364	CC	GG	GG	URR	101500698	chorismate mutase 1, chloroplastic
SNP_7285_A_3782227	NC_021161.1	Ca_Kabuli_Chr02	3782227	TT	CC	CC	INTERGENIC		
SNP_7286_A_3782235	NC_021161.1	Ca_Kabuli_Chr02	3782235	AA	GG	GG	INTERGENIC		
SNP_7288_A_3783183	NC_021161.1	Ca_Kabuli_Chr02	3783183	AA	TT	TT	INTERGENIC		
SNP_7289_A_3783193	NC_021161.1	Ca_Kabuli_Chr02	3783193	GG	TT	TT	INTERGENIC		
SNP_7290_A_3783654	NC_021161.1	Ca_Kabuli_Chr02	3783654	AA	TT	TT	INTERGENIC		
SNP_7291_A_3784954	NC_021161.1	Ca_Kabuli_Chr02	3784954	TT	AA	AA	DRR	101501012	probable mitochondrial saccharopine dehydrogenase-like oxidoreductase At5g39410
SNP_7292_A_3786217	NC_021161.1	Ca_Kabuli_Chr02	3786217	GG	CC	CC	INTERGENIC		
SNP_7293_A_3786243	NC_021161.1	Ca_Kabuli_Chr02	3786243	GG	TT	TT	INTERGENIC		
SNP_7294_A_3787010	NC_021161.1	Ca_Kabuli_Chr02	3787010	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7295_A_3787011	NC_021161.1	Ca_Kabuli_Chr02	3787011	CC	TT	TT	INTERGENIC		
SNP_7296_A_3790658	NC_021161.1	Ca_Kabuli_Chr02	3790658	TT	CC	CC	INTERGENIC		
SNP_7297_A_3790724	NC_021161.1	Ca_Kabuli_Chr02	3790724	CC	TT	TT	INTERGENIC		
SNP_7298_A_3792522	NC_021161.1	Ca_Kabuli_Chr02	3792522	TT	CC	CC	INTERGENIC		
SNP_7299_A_3792552	NC_021161.1	Ca_Kabuli_Chr02	3792552	TT	AA	AA	INTERGENIC		
SNP_7300_A_3793759	NC_021161.1	Ca_Kabuli_Chr02	3793759	AA	TT	TT	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7301_A_3793773	NC_021161.1	Ca_Kabuli_Chr02	3793773	AA	GG	GG	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7302_A_3794046	NC_021161.1	Ca_Kabuli_Chr02	3794046	CC	AA	AA	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7303_A_3794060	NC_021161.1	Ca_Kabuli_Chr02	3794060	GG	AA	AA	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7304_A_3794310	NC_021161.1	Ca_Kabuli_Chr02	3794310	CC	GG	GG	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7305_A_3794341	NC_021161.1	Ca_Kabuli_Chr02	3794341	CC	TT	TT	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7306_A_3794373	NC_021161.1	Ca_Kabuli_Chr02	3794373	CC	AA	AA	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7307_A_3795688	NC_021161.1	Ca_Kabuli_Chr02	3795688	AA	CC	CC	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7308_A_3795689	NC_021161.1	Ca_Kabuli_Chr02	3795689	CC	GG	GG	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7309_A_3795698	NC_021161.1	Ca_Kabuli_Chr02	3795698	GG	AA	AA	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7310_A_3795963	NC_021161.1	Ca_Kabuli_Chr02	3795963	GG	TT	TT	INTRON	101501326	probable ubiquitin conjugation factor E4
SNP_7311_A_3798525	NC_021161.1	Ca_Kabuli_Chr02	3798525	TT	AA	AA	URR	101501326	probable ubiquitin conjugation factor E4
SNP_7312_A_3798529	NC_021161.1	Ca_Kabuli_Chr02	3798529	CC	TT	TT	URR	101501326	probable ubiquitin conjugation factor E4
SNP_7313_A_3799323	NC_021161.1	Ca_Kabuli_Chr02	3799323	CC	GG	GG	DRR	101501645	uncharacterized LOC101501645
SNP_7314_A_3799362	NC_021161.1	Ca_Kabuli_Chr02	3799362	TT	CC	CC	DRR	101501645	uncharacterized LOC101501645
SNP_7315_A_3799652	NC_021161.1	Ca_Kabuli_Chr02	3799652	AA	GG	GG	DRR	101501645	uncharacterized LOC101501645
SNP_7317_A_3800800	NC_021161.1	Ca_Kabuli_Chr02	3800800	GG	AA	AA	INTRON	101501645	uncharacterized LOC101501645

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7318_A_3800905	NC_021161.1	Ca_Kabuli_Chr02	3800905	AA	GG	GG	INTRON	101501645	uncharacterized LOC101501645
SNP_7319_A_3800968	NC_021161.1	Ca_Kabuli_Chr02	3800968	AA	TT	TT	INTRON	101501645	uncharacterized LOC101501645
SNP_7320_A_3801004	NC_021161.1	Ca_Kabuli_Chr02	3801004	GG	TT	TT	INTRON	101501645	uncharacterized LOC101501645
SNP_7321_A_3804198	NC_021161.1	Ca_Kabuli_Chr02	3804198	AA	GG	GG	DRR	101501957	uncharacterized LOC101501957
SNP_7322_A_3804247	NC_021161.1	Ca_Kabuli_Chr02	3804247	GG	AA	AA	DRR	101501957	uncharacterized LOC101501957
SNP_7323_A_3805273	NC_021161.1	Ca_Kabuli_Chr02	3805273	GG	TT	TT	URR	101501645	uncharacterized LOC101501645
SNP_7324_A_3805755	NC_021161.1	Ca_Kabuli_Chr02	3805755	TT	AA	AA	INTERGENIC		
SNP_7325_A_3805756	NC_021161.1	Ca_Kabuli_Chr02	3805756	AA	GG	GG	INTERGENIC		
SNP_7326_A_3805757	NC_021161.1	Ca_Kabuli_Chr02	3805757	CC	TT	TT	INTERGENIC		
SNP_7327_A_3805758	NC_021161.1	Ca_Kabuli_Chr02	3805758	TT	AA	AA	INTERGENIC		
SNP_7328_A_3805984	NC_021161.1	Ca_Kabuli_Chr02	3805984	CC	TT	TT	INTERGENIC		
SNP_7330_A_3806017	NC_021161.1	Ca_Kabuli_Chr02	3806017	AA	GG	GG	INTERGENIC		
SNP_7331_A_3809943	NC_021161.1	Ca_Kabuli_Chr02	3809943	CC	AA	AA	URR	101501957	uncharacterized LOC101501957
SNP_7333_A_3812578	NC_021161.1	Ca_Kabuli_Chr02	3812578	CC	AA	AA	INTERGENIC		
SNP_7334_A_3813559	NC_021161.1	Ca_Kabuli_Chr02	3813559	GG	AA	AA	INTERGENIC		
SNP_7335_A_3813561	NC_021161.1	Ca_Kabuli_Chr02	3813561	AA	TT	TT	INTERGENIC		
SNP_7336_A_3813575	NC_021161.1	Ca_Kabuli_Chr02	3813575	TT	CC	CC	INTERGENIC		
SNP_7337_A_3813577	NC_021161.1	Ca_Kabuli_Chr02	3813577	TT	CC	CC	INTERGENIC		
SNP_7339_A_3813909	NC_021161.1	Ca_Kabuli_Chr02	3813909	TT	GG	GG	INTERGENIC		
SNP_7340_A_3814203	NC_021161.1	Ca_Kabuli_Chr02	3814203	TT	AA	AA	INTERGENIC		
SNP_7341_A_3816762	NC_021161.1	Ca_Kabuli_Chr02	3816762	CC	TT	TT	INTERGENIC		
SNP_7342_A_3884999	NC_021161.1	Ca_Kabuli_Chr02	3884999	CC	TT	TT	URR	101505493	7-deoxyloganetin glucosyltransferase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7343_A_3901640	NC_021161.1	Ca_Kabuli_Chr02	3901640	TT	CC	CC	URR	101506144	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic
SNP_7344_A_3901712	NC_021161.1	Ca_Kabuli_Chr02	3901712	AA	CC	CC	URR	101506144	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic
SNP_7345_A_3901717	NC_021161.1	Ca_Kabuli_Chr02	3901717	TT	GG	GG	URR	101506144	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic
SNP_7346_A_3901729	NC_021161.1	Ca_Kabuli_Chr02	3901729	CC	AA	AA	URR	101506144	alpha-1,4 glucan phosphorylase L isozyme, chloroplastic/amyloplastic
SNP_7348_A_3919050	NC_021161.1	Ca_Kabuli_Chr02	3919050	AA	GG	GG	URR	101507139	biotin carboxyl carrier protein of acetyl-CoA carboxylase 1, chloroplastic
SNP_7351_A_4034450	NC_021161.1	Ca_Kabuli_Chr02	4034450	CC	TT	TT	DRR	101511385	transcription factor TCP13
SNP_7352_A_4037454	NC_021161.1	Ca_Kabuli_Chr02	4037454	GG	AA	AA	URR	101511385	transcription factor TCP13
SNP_7356_A_4130561	NC_021161.1	Ca_Kabuli_Chr02	4130561	CC	TT	TT	DRR	101512894	uncharacterized LOC101512894
SNP_7357_A_4146644	NC_021161.1	Ca_Kabuli_Chr02	4146644	TT	GG	GG	INTERGENIC		
SNP_7358_A_4156064	NC_021161.1	Ca_Kabuli_Chr02	4156064	AA	GG	GG	URR	101513432	Unknown function
SNP_7359_A_4186842	NC_021161.1	Ca_Kabuli_Chr02	4186842	GG	AA	AA	INTERGENIC		
SNP_7360_A_4187331	NC_021161.1	Ca_Kabuli_Chr02	4187331	AA	GG	GG	INTERGENIC		
SNP_7361_A_4187362	NC_021161.1	Ca_Kabuli_Chr02	4187362	TT	CC	CC	INTERGENIC		
SNP_7362_A_4187773	NC_021161.1	Ca_Kabuli_Chr02	4187773	AA	GG	GG	INTERGENIC		
SNP_7363_A_4187799	NC_021161.1	Ca_Kabuli_Chr02	4187799	TT	CC	CC	INTERGENIC		
SNP_7364_A_4187840	NC_021161.1	Ca_Kabuli_Chr02	4187840	GG	AA	AA	INTERGENIC		
SNP_7365_A_4192094	NC_021161.1	Ca_Kabuli_Chr02	4192094	AA	TT	TT	INTERGENIC		
SNP_7366_A_4192148	NC_021161.1	Ca_Kabuli_Chr02	4192148	AA	GG	GG	INTERGENIC		
SNP_7367_A_4192158	NC_021161.1	Ca_Kabuli_Chr02	4192158	AA	CC	CC	INTERGENIC		
SNP_7368_A_4192171	NC_021161.1	Ca_Kabuli_Chr02	4192171	CC	TT	TT	INTERGENIC		
SNP_7369_A_4192211	NC_021161.1	Ca_Kabuli_Chr02	4192211	AA	GG	GG	INTERGENIC		
SNP_7370_A_4192590	NC_021161.1	Ca_Kabuli_Chr02	4192590	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7372_A_4239436	NC_021161.1	Ca_Kabuli_Chr02	4239436	GG	TT	TT	INTRON	101506573	GDSL esterase/lipase At5g45910-like
SNP_7373_A_4242635	NC_021161.1	Ca_Kabuli_Chr02	4242635	AA	GG	GG	INTRON	101506573	GDSL esterase/lipase At5g45910-like
SNP_7374_A_4242997	NC_021161.1	Ca_Kabuli_Chr02	4242997	CC	TT	TT	INTRON	101506573	GDSL esterase/lipase At5g45910-like
SNP_7375_A_4243037	NC_021161.1	Ca_Kabuli_Chr02	4243037	GG	TT	TT	INTRON	101506573	GDSL esterase/lipase At5g45910-like
SNP_7376_A_4252998	NC_021161.1	Ca_Kabuli_Chr02	4252998	AA	GG	GG	INTRON	101496375	biotin carboxyl carrier protein of acetyl-CoA carboxylase, chloroplastic-like
SNP_7377_A_4277749	NC_021161.1	Ca_Kabuli_Chr02	4277749	CC	TT	TT	INTERGENIC		
SNP_7378_A_4277755	NC_021161.1	Ca_Kabuli_Chr02	4277755	GG	TT	TT	INTERGENIC		
SNP_7379_A_4277777	NC_021161.1	Ca_Kabuli_Chr02	4277777	TT	GG	GG	INTERGENIC		
SNP_7380_A_4277908	NC_021161.1	Ca_Kabuli_Chr02	4277908	AA	CC	CC	INTERGENIC		
SNP_7381_A_4277915	NC_021161.1	Ca_Kabuli_Chr02	4277915	GG	TT	TT	INTERGENIC		
SNP_7382_A_4277948	NC_021161.1	Ca_Kabuli_Chr02	4277948	GG	AA	AA	INTERGENIC		
SNP_7383_A_4278175	NC_021161.1	Ca_Kabuli_Chr02	4278175	TT	CC	CC	INTERGENIC		
SNP_7384_A_4278192	NC_021161.1	Ca_Kabuli_Chr02	4278192	AA	GG	GG	INTERGENIC		
SNP_7385_A_4278253	NC_021161.1	Ca_Kabuli_Chr02	4278253	TT	CC	CC	INTERGENIC		
SNP_7387_A_4353937	NC_021161.1	Ca_Kabuli_Chr02	4353937	AA	GG	GG	INTERGENIC		
SNP_7388_A_4517083	NC_021161.1	Ca_Kabuli_Chr02	4517083	AA	GG	GG	INTERGENIC		
SNP_7390_A_4550633	NC_021161.1	Ca_Kabuli_Chr02	4550633	AA	GG	GG	INTERGENIC		
SNP_7391_A_4551277	NC_021161.1	Ca_Kabuli_Chr02	4551277	TT	AA	AA	INTERGENIC		
SNP_7392_A_4551279	NC_021161.1	Ca_Kabuli_Chr02	4551279	TT	GG	GG	INTERGENIC		
SNP_7393_A_4557347	NC_021161.1	Ca_Kabuli_Chr02	4557347	CC	TT	TT	INTERGENIC		
SNP_7394_A_4557615	NC_021161.1	Ca_Kabuli_Chr02	4557615	CC	AA	AA	INTERGENIC		
SNP_7395_A_4620728	NC_021161.1	Ca_Kabuli_Chr02	4620728	GG	AA	AA	INTERGENIC		

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SNP_7396_A_4620809	NC_021161.1	Ca_Kabuli_Chr02	4620809	AA	TT	TT	INTERGENIC			
SNP_7397_A_4621147	NC_021161.1	Ca_Kabuli_Chr02	4621147	TT	CC	CC	INTERGENIC			
SNP_7398_A_4670595	NC_021161.1	Ca_Kabuli_Chr02	4670595	TT	CC	CC	INTERGENIC			
SNP_7399_A_4677963	NC_021161.1	Ca_Kabuli_Chr02	4677963	AA	GG	GG	INTERGENIC			
SNP_7400_A_4677973	NC_021161.1	Ca_Kabuli_Chr02	4677973	CC	TT	TT	INTERGENIC			
SNP_7401_A_4677999	NC_021161.1	Ca_Kabuli_Chr02	4677999	CC	TT	TT	INTERGENIC			
SNP_7402_A_4678016	NC_021161.1	Ca_Kabuli_Chr02	4678016	CC	TT	TT	INTERGENIC			
SNP_7403_A_4678270	NC_021161.1	Ca_Kabuli_Chr02	4678270	CC	TT	TT	INTERGENIC			
SNP_7404_A_4678358	NC_021161.1	Ca_Kabuli_Chr02	4678358	CC	TT	TT	INTERGENIC			
SNP_7406_A_4715001	NC_021161.1	Ca_Kabuli_Chr02	4715001	TT	CC	CC	INTERGENIC			
SNP_7407_A_4746281	NC_021161.1	Ca_Kabuli_Chr02	4746281	GG	AA	AA	INTERGENIC			
SNP_7408_A_4747812	NC_021161.1	Ca_Kabuli_Chr02	4747812	AA	TT	TT	INTERGENIC			
SNP_7409_A_4766516	NC_021161.1	Ca_Kabuli_Chr02	4766516	TT	CC	CC	DRR	101509463	Unknown function	
SNP_7410_A_4766566	NC_021161.1	Ca_Kabuli_Chr02	4766566	TT	AA	AA	DRR	101509463	Unknown function	
SNP_7411_A_4767165	NC_021161.1	Ca_Kabuli_Chr02	4767165	AA	CC	CC	NON_SYNONYMOUS_CODING	101509463	Unknown function	
SNP_7412_A_4769404	NC_021161.1	Ca_Kabuli_Chr02	4769404	GG	TT	TT	URR	101509463	Unknown function	
SNP_7413_A_4770709	NC_021161.1	Ca_Kabuli_Chr02	4770709	TT	GG	GG	INTERGENIC			
SNP_7414_A_4805041	NC_021161.1	Ca_Kabuli_Chr02	4805041	CC	TT	TT	NON_SYNONYMOUS_CODING	101504745	putative G3BP-like protein	
SNP_7415_A_4812595	NC_021161.1	Ca_Kabuli_Chr02	4812595	CC	TT	TT	INTRON	101505279	phenolic glucoside malonyltransferase 1-like	
SNP_7416_A_4812788	NC_021161.1	Ca_Kabuli_Chr02	4812788	AA	GG	GG	INTRON	101505279	phenolic glucoside malonyltransferase 1-like	
SNP_7418_A_4812950	NC_021161.1	Ca_Kabuli_Chr02	4812950	GG	TT	TT	INTRON	101505279	phenolic glucoside malonyltransferase 1-like	
SNP_7419_A_4812979	NC_021161.1	Ca_Kabuli_Chr02	4812979	GG	AA	AA	INTRON	101505279	phenolic glucoside malonyltransferase 1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7420_A_4813128	NC_021161.1	Ca_Kabuli_Chr02	4813128	AA	GG	GG	INTRON	101505279	phenolic glucoside malonyltransferase 1-like
SNP_7421_A_4818877	NC_021161.1	Ca_Kabuli_Chr02	4818877	GG	AA	AA	INTERGENIC		
SNP_7422_A_4819571	NC_021161.1	Ca_Kabuli_Chr02	4819571	CC	TT	TT	INTERGENIC		
SNP_7423_A_4829772	NC_021161.1	Ca_Kabuli_Chr02	4829772	TT	CC	CC	INTERGENIC		
SNP_7424_A_4890866	NC_021161.1	Ca_Kabuli_Chr02	4890866	GG	TT	TT	INTERGENIC		
SNP_7425_A_4890869	NC_021161.1	Ca_Kabuli_Chr02	4890869	TT	GG	GG	INTERGENIC		
SNP_7426_A_4890893	NC_021161.1	Ca_Kabuli_Chr02	4890893	GG	TT	TT	INTERGENIC		
SNP_7427_A_4891402	NC_021161.1	Ca_Kabuli_Chr02	4891402	GG	AA	AA	INTERGENIC		
SNP_7428_A_4891487	NC_021161.1	Ca_Kabuli_Chr02	4891487	AA	GG	GG	INTERGENIC		
SNP_7429_A_4892429	NC_021161.1	Ca_Kabuli_Chr02	4892429	CC	TT	TT	INTERGENIC		
SNP_7430_A_4892489	NC_021161.1	Ca_Kabuli_Chr02	4892489	AA	CC	CC	INTERGENIC		
SNP_7431_A_4892541	NC_021161.1	Ca_Kabuli_Chr02	4892541	TT	AA	AA	INTERGENIC		
SNP_7433_A_4892894	NC_021161.1	Ca_Kabuli_Chr02	4892894	AA	TT	TT	INTERGENIC		
SNP_7434_A_4893002	NC_021161.1	Ca_Kabuli_Chr02	4893002	TT	GG	GG	INTERGENIC		
SNP_7435_A_4893011	NC_021161.1	Ca_Kabuli_Chr02	4893011	CC	TT	TT	INTERGENIC		
SNP_7436_A_4893058	NC_021161.1	Ca_Kabuli_Chr02	4893058	CC	TT	TT	INTERGENIC		
SNP_7437_A_4893356	NC_021161.1	Ca_Kabuli_Chr02	4893356	AA	GG	GG	INTERGENIC		
SNP_7438_A_4893489	NC_021161.1	Ca_Kabuli_Chr02	4893489	TT	AA	AA	INTERGENIC		
SNP_7439_A_4893522	NC_021161.1	Ca_Kabuli_Chr02	4893522	CC	AA	AA	INTERGENIC		
SNP_7440_A_4893783	NC_021161.1	Ca_Kabuli_Chr02	4893783	GG	AA	AA	INTERGENIC		
SNP_7441_A_4893902	NC_021161.1	Ca_Kabuli_Chr02	4893902	CC	TT	TT	INTERGENIC		
SNP_7442_A_4893941	NC_021161.1	Ca_Kabuli_Chr02	4893941	AA	GG	GG	INTERGENIC		

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SNP_7443_A_4894008	NC_021161.1	Ca_Kabuli_Chr02	4894008	AA	TT	TT	INTERGENIC			
SNP_7444_A_4894056	NC_021161.1	Ca_Kabuli_Chr02	4894056	GG	AA	AA	INTERGENIC			
SNP_7446_A_4894250	NC_021161.1	Ca_Kabuli_Chr02	4894250	CC	AA	AA	INTERGENIC			
SNP_7447_A_4894639	NC_021161.1	Ca_Kabuli_Chr02	4894639	GG	TT	TT	INTERGENIC			
SNP_7448_A_4894701	NC_021161.1	Ca_Kabuli_Chr02	4894701	CC	AA	AA	INTERGENIC			
SNP_7449_A_4895463	NC_021161.1	Ca_Kabuli_Chr02	4895463	CC	TT	TT	INTERGENIC			
SNP_7450_A_4895476	NC_021161.1	Ca_Kabuli_Chr02	4895476	CC	AA	AA	INTERGENIC			
SNP_7451_A_4895477	NC_021161.1	Ca_Kabuli_Chr02	4895477	GG	AA	AA	INTERGENIC			
SNP_7452_A_4895494	NC_021161.1	Ca_Kabuli_Chr02	4895494	AA	GG	GG	INTERGENIC			
SNP_7453_A_4895497	NC_021161.1	Ca_Kabuli_Chr02	4895497	CC	TT	TT	INTERGENIC			
SNP_7454_A_4895508	NC_021161.1	Ca_Kabuli_Chr02	4895508	GG	AA	AA	INTERGENIC			
SNP_7455_A_4895614	NC_021161.1	Ca_Kabuli_Chr02	4895614	TT	CC	CC	INTERGENIC			
SNP_7456_A_4895622	NC_021161.1	Ca_Kabuli_Chr02	4895622	TT	CC	CC	INTERGENIC			
SNP_7457_A_4895627	NC_021161.1	Ca_Kabuli_Chr02	4895627	AA	GG	GG	INTERGENIC			
SNP_7458_A_4895637	NC_021161.1	Ca_Kabuli_Chr02	4895637	TT	CC	CC	INTERGENIC			
SNP_7459_A_4895642	NC_021161.1	Ca_Kabuli_Chr02	4895642	GG	AA	AA	INTERGENIC			
SNP_7461_A_4895718	NC_021161.1	Ca_Kabuli_Chr02	4895718	GG	AA	AA	INTERGENIC			
SNP_7462_A_4895750	NC_021161.1	Ca_Kabuli_Chr02	4895750	AA	GG	GG	INTERGENIC			
SNP_7464_A_4919060	NC_021161.1	Ca_Kabuli_Chr02	4919060	AA	TT	TT	INTERGENIC			
SNP_7465_A_4919097	NC_021161.1	Ca_Kabuli_Chr02	4919097	TT	CC	CC	INTERGENIC			
SNP_7466_A_4919101	NC_021161.1	Ca_Kabuli_Chr02	4919101	AA	TT	TT	INTERGENIC			
SNP_7467_A_4919126	NC_021161.1	Ca_Kabuli_Chr02	4919126	CC	TT	TT	INTERGENIC			

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SNP_7468_A_4919161	NC_021161.1	Ca_Kabuli_Chr02	4919161	CC	AA	AA	INTERGENIC		
SNP_7469_A_4919162	NC_021161.1	Ca_Kabuli_Chr02	4919162	GG	AA	AA	INTERGENIC		
SNP_7470_A_4974322	NC_021161.1	Ca_Kabuli_Chr02	4974322	AA	GG	GG	INTRON	101505725	DNA ligase 1-like
SNP_7471_A_4981626	NC_021161.1	Ca_Kabuli_Chr02	4981626	AA	GG	GG	INTERGENIC		
SNP_7472_A_5062602	NC_021161.1	Ca_Kabuli_Chr02	5062602	GG	AA	AA	URR	101513652	GD5L esterase/lipase LTL1-like
SNP_7473_A_5096256	NC_021161.1	Ca_Kabuli_Chr02	5096256	AA	TT	TT	URR	101514845	pre-rRNA-processing protein ESF2
SNP_7475_A_5104471	NC_021161.1	Ca_Kabuli_Chr02	5104471	AA	CC	CC	INTRON	101515168	ras-related protein RABB1b
SNP_7476_A_5104472	NC_021161.1	Ca_Kabuli_Chr02	5104472	AA	CC	CC	INTRON	101515168	ras-related protein RABB1b
SNP_7477_A_5112758	NC_021161.1	Ca_Kabuli_Chr02	5112758	AA	GG	GG	INTERGENIC		
SNP_7478_A_5135328	NC_021161.1	Ca_Kabuli_Chr02	5135328	AA	CC	CC	INTERGENIC		
SNP_7479_A_5135343	NC_021161.1	Ca_Kabuli_Chr02	5135343	AA	GG	GG	INTERGENIC		
SNP_7480_A_5135366	NC_021161.1	Ca_Kabuli_Chr02	5135366	AA	CC	CC	INTERGENIC		
SNP_7483_A_5169707	NC_021161.1	Ca_Kabuli_Chr02	5169707	GG	AA	AA	INTRON	101488572	glycerol-3-phosphate dehydrogenase [NAD(+)]-like
SNP_7484_A_5238450	NC_021161.1	Ca_Kabuli_Chr02	5238450	AA	GG	GG	INTRON	101507647	cystinosin homolog
SNP_7485_A_5265502	NC_021161.1	Ca_Kabuli_Chr02	5265502	AA	GG	GG	URR	101492930	uncharacterized LOC101492930
SNP_7487_A_5407966	NC_021161.1	Ca_Kabuli_Chr02	5407966	GG	AA	AA	DRR	101508604	uncharacterized LOC101508604
SNP_7488_A_5407992	NC_021161.1	Ca_Kabuli_Chr02	5407992	TT	CC	CC	DRR	101508604	uncharacterized LOC101508604
SNP_7489_A_5408008	NC_021161.1	Ca_Kabuli_Chr02	5408008	TT	CC	CC	DRR	101508604	uncharacterized LOC101508604
SNP_7490_A_5408021	NC_021161.1	Ca_Kabuli_Chr02	5408021	TT	CC	CC	DRR	101508604	uncharacterized LOC101508604
SNP_7491_A_5467531	NC_021161.1	Ca_Kabuli_Chr02	5467531	GG	AA	AA	URR	101499532	ribulose-1,5 bisphosphate carboxylase/oxygenase large subunit N-methyltransferase, chloroplastic
SNP_7492_A_5522756	NC_021161.1	Ca_Kabuli_Chr02	5522756	GG	AA	AA	INTERGENIC		
SNP_7493_A_5522765	NC_021161.1	Ca_Kabuli_Chr02	5522765	GG	AA	AA	INTERGENIC		

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SNP_7494_A_5522912	NC_021161.1	Ca_Kabuli_Chr02	5522912	AA	GG	GG	INTERGENIC			
SNP_7495_A_5522930	NC_021161.1	Ca_Kabuli_Chr02	5522930	GG	TT	TT	INTERGENIC			
SNP_7496_A_5522950	NC_021161.1	Ca_Kabuli_Chr02	5522950	AA	GG	GG	INTERGENIC			
SNP_7497_A_5524339	NC_021161.1	Ca_Kabuli_Chr02	5524339	TT	GG	GG	INTERGENIC			
SNP_7498_A_5524431	NC_021161.1	Ca_Kabuli_Chr02	5524431	AA	GG	GG	INTERGENIC			
SNP_7499_A_5524436	NC_021161.1	Ca_Kabuli_Chr02	5524436	GG	AA	AA	INTERGENIC			
SNP_7500_A_5524465	NC_021161.1	Ca_Kabuli_Chr02	5524465	AA	TT	TT	INTERGENIC			
SNP_7501_A_5524636	NC_021161.1	Ca_Kabuli_Chr02	5524636	TT	AA	AA	INTERGENIC			
SNP_7502_A_5524663	NC_021161.1	Ca_Kabuli_Chr02	5524663	TT	CC	CC	INTERGENIC			
SNP_7503_A_5524726	NC_021161.1	Ca_Kabuli_Chr02	5524726	TT	CC	CC	INTERGENIC			
SNP_7504_A_5547003	NC_021161.1	Ca_Kabuli_Chr02	5547003	CC	TT	TT	INTERGENIC			
SNP_7508_A_5703482	NC_021161.1	Ca_Kabuli_Chr02	5703482	TT	CC	CC	INTERGENIC			
SNP_7509_A_5703508	NC_021161.1	Ca_Kabuli_Chr02	5703508	TT	CC	CC	INTERGENIC			
SNP_7510_A_5703750	NC_021161.1	Ca_Kabuli_Chr02	5703750	GG	AA	AA	INTERGENIC			
SNP_7511_A_5706302	NC_021161.1	Ca_Kabuli_Chr02	5706302	AA	GG	GG	INTERGENIC			
SNP_7512_A_5706327	NC_021161.1	Ca_Kabuli_Chr02	5706327	CC	AA	AA	INTERGENIC			
SNP_7513_A_5706414	NC_021161.1	Ca_Kabuli_Chr02	5706414	AA	TT	TT	INTERGENIC			
SNP_7514_A_5706478	NC_021161.1	Ca_Kabuli_Chr02	5706478	GG	CC	CC	INTERGENIC			
SNP_7515_A_5706482	NC_021161.1	Ca_Kabuli_Chr02	5706482	AA	CC	CC	INTERGENIC			
SNP_7516_A_5706552	NC_021161.1	Ca_Kabuli_Chr02	5706552	AA	GG	GG	INTERGENIC			
SNP_7517_A_5710878	NC_021161.1	Ca_Kabuli_Chr02	5710878	TT	CC	CC	INTERGENIC			
SNP_7518_A_5712010	NC_021161.1	Ca_Kabuli_Chr02	5712010	TT	CC	CC	INTERGENIC			

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SNP_7519_A_5712018	NC_021161.1	Ca_Kabuli_Chr02	5712018	GG	AA	AA	INTERGENIC			
SNP_7520_A_5712020	NC_021161.1	Ca_Kabuli_Chr02	5712020	CC	TT	TT	INTERGENIC			
SNP_7521_A_5720055	NC_021161.1	Ca_Kabuli_Chr02	5720055	CC	TT	TT	INTERGENIC			
SNP_7522_A_5720149	NC_021161.1	Ca_Kabuli_Chr02	5720149	GG	AA	AA	INTERGENIC			
SNP_7523_A_5720340	NC_021161.1	Ca_Kabuli_Chr02	5720340	TT	CC	CC	INTERGENIC			
SNP_7524_A_5728899	NC_021161.1	Ca_Kabuli_Chr02	5728899	GG	CC	CC	URR	101509881		uncharacterized LOC101509881
SNP_7525_A_5752891	NC_021161.1	Ca_Kabuli_Chr02	5752891	CC	TT	TT	INTERGENIC			
SNP_7526_A_5753041	NC_021161.1	Ca_Kabuli_Chr02	5753041	AA	TT	TT	INTERGENIC			
SNP_7527_A_5753111	NC_021161.1	Ca_Kabuli_Chr02	5753111	TT	AA	AA	INTERGENIC			
SNP_7528_A_5753113	NC_021161.1	Ca_Kabuli_Chr02	5753113	GG	CC	CC	INTERGENIC			
SNP_7529_A_5753212	NC_021161.1	Ca_Kabuli_Chr02	5753212	TT	CC	CC	INTERGENIC			
SNP_7530_A_5753292	NC_021161.1	Ca_Kabuli_Chr02	5753292	TT	GG	GG	INTERGENIC			
SNP_7531_A_5753293	NC_021161.1	Ca_Kabuli_Chr02	5753293	CC	AA	AA	INTERGENIC			
SNP_7532_A_5753309	NC_021161.1	Ca_Kabuli_Chr02	5753309	GG	CC	CC	INTERGENIC			
SNP_7533_A_5753476	NC_021161.1	Ca_Kabuli_Chr02	5753476	CC	TT	TT	INTERGENIC			
SNP_7534_A_5767942	NC_021161.1	Ca_Kabuli_Chr02	5767942	TT	GG	GG	INTERGENIC			
SNP_7535_A_5768066	NC_021161.1	Ca_Kabuli_Chr02	5768066	TT	GG	GG	INTERGENIC			
SNP_7536_A_5768122	NC_021161.1	Ca_Kabuli_Chr02	5768122	TT	GG	GG	INTERGENIC			
SNP_7537_A_5768761	NC_021161.1	Ca_Kabuli_Chr02	5768761	GG	AA	AA	INTERGENIC			
SNP_7538_A_5768805	NC_021161.1	Ca_Kabuli_Chr02	5768805	TT	CC	CC	INTERGENIC			
SNP_7539_A_5768826	NC_021161.1	Ca_Kabuli_Chr02	5768826	CC	AA	AA	INTERGENIC			
SNP_7540_A_5843139	NC_021161.1	Ca_Kabuli_Chr02	5843139	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7541_A_5888010	NC_021161.1	Ca_Kabuli_Chr02	5888010	TT	CC	CC	DRR	101515382	regulation of nuclear pre-mRNA domain-containing protein 1A-like
SNP_7542_A_6020369	NC_021161.1	Ca_Kabuli_Chr02	6020369	AA	GG	GG	INTERGENIC		
SNP_7543_A_6075388	NC_021161.1	Ca_Kabuli_Chr02	6075388	AA	GG	GG	SYNONYMOUS_CODING	101498001	Unknown function
SNP_7544_A_6075504	NC_021161.1	Ca_Kabuli_Chr02	6075504	TT	CC	CC	INTRON	101498001	Unknown function
SNP_7545_A_6075580	NC_021161.1	Ca_Kabuli_Chr02	6075580	AA	GG	GG	INTRON	101498001	Unknown function
SNP_7546_A_6075737	NC_021161.1	Ca_Kabuli_Chr02	6075737	AA	GG	GG	NON_SYNONYMOUS_CODING	101498001	Unknown function
SNP_7547_A_6075939	NC_021161.1	Ca_Kabuli_Chr02	6075939	CC	GG	GG	INTRON	101498001	Unknown function
SNP_7548_A_6085175	NC_021161.1	Ca_Kabuli_Chr02	6085175	GG	AA	AA	INTERGENIC		
SNP_7549_A_6180711	NC_021161.1	Ca_Kabuli_Chr02	6180711	GG	AA	AA	INTERGENIC		
SNP_7550_A_6264703	NC_021161.1	Ca_Kabuli_Chr02	6264703	TT	CC	CC	INTERGENIC		
SNP_7551_A_6314721	NC_021161.1	Ca_Kabuli_Chr02	6314721	AA	GG	GG	INTERGENIC		
SNP_7553_A_6323269	NC_021161.1	Ca_Kabuli_Chr02	6323269	AA	GG	GG	INTERGENIC		
SNP_7554_A_6334362	NC_021161.1	Ca_Kabuli_Chr02	6334362	CC	AA	AA	URR	101506364	shikimate O-hydroxycinnamoyltransferase-like
SNP_7555_A_6334365	NC_021161.1	Ca_Kabuli_Chr02	6334365	TT	CC	CC	URR	101506364	shikimate O-hydroxycinnamoyltransferase-like
SNP_7556_A_6334367	NC_021161.1	Ca_Kabuli_Chr02	6334367	GG	AA	AA	URR	101506364	shikimate O-hydroxycinnamoyltransferase-like
SNP_7557_A_6334408	NC_021161.1	Ca_Kabuli_Chr02	6334408	TT	GG	GG	URR	101506364	shikimate O-hydroxycinnamoyltransferase-like
SNP_7558_A_6394550	NC_021161.1	Ca_Kabuli_Chr02	6394550	AA	TT	TT	DRR	101500594	5-methyltetrahydropteroyltryglutamate--homocysteine methyltransferase
SNP_7559_A_6394551	NC_021161.1	Ca_Kabuli_Chr02	6394551	AA	GG	GG	DRR	101500594	5-methyltetrahydropteroyltryglutamate--homocysteine methyltransferase
SNP_7560_A_6468927	NC_021161.1	Ca_Kabuli_Chr02	6468927	GG	AA	AA	NON_SYNONYMOUS_CODING	101507341	lysosomal beta glucosidase-like
SNP_7563_A_6618242	NC_021161.1	Ca_Kabuli_Chr02	6618242	CC	AA	AA	INTERGENIC		
SNP_7564_A_6618263	NC_021161.1	Ca_Kabuli_Chr02	6618263	GG	TT	TT	INTERGENIC		
SNP_7565_A_6618334	NC_021161.1	Ca_Kabuli_Chr02	6618334	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7566_A_6618369	NC_021161.1	Ca_Kabuli_Chr02	6618369	AA	GG	GG	INTERGENIC		
SNP_7567_A_6618376	NC_021161.1	Ca_Kabuli_Chr02	6618376	AA	CC	CC	INTERGENIC		
SNP_7568_A_6618378	NC_021161.1	Ca_Kabuli_Chr02	6618378	TT	CC	CC	INTERGENIC		
SNP_7569_A_6638603	NC_021161.1	Ca_Kabuli_Chr02	6638603	AA	GG	GG	URR	101493586	Unknown function
SNP_7570_A_6638793	NC_021161.1	Ca_Kabuli_Chr02	6638793	GG	AA	AA	INTERGENIC		
SNP_7571_A_6639137	NC_021161.1	Ca_Kabuli_Chr02	6639137	GG	AA	AA	INTERGENIC		
SNP_7572_A_6639244	NC_021161.1	Ca_Kabuli_Chr02	6639244	AA	CC	CC	INTERGENIC		
SNP_7573_A_6639593	NC_021161.1	Ca_Kabuli_Chr02	6639593	AA	TT	TT	INTERGENIC		
SNP_7575_A_6640408	NC_021161.1	Ca_Kabuli_Chr02	6640408	AA	CC	CC	INTERGENIC		
SNP_7577_A_6640498	NC_021161.1	Ca_Kabuli_Chr02	6640498	AA	CC	CC	INTERGENIC		
SNP_7578_A_6640533	NC_021161.1	Ca_Kabuli_Chr02	6640533	CC	TT	TT	INTERGENIC		
SNP_7579_A_6640540	NC_021161.1	Ca_Kabuli_Chr02	6640540	CC	TT	TT	INTERGENIC		
SNP_7580_A_6640571	NC_021161.1	Ca_Kabuli_Chr02	6640571	AA	GG	GG	INTERGENIC		
SNP_7581_A_6640625	NC_021161.1	Ca_Kabuli_Chr02	6640625	CC	TT	TT	INTERGENIC		
SNP_7582_A_6640702	NC_021161.1	Ca_Kabuli_Chr02	6640702	CC	TT	TT	INTERGENIC		
SNP_7583_A_6640760	NC_021161.1	Ca_Kabuli_Chr02	6640760	AA	GG	GG	INTERGENIC		
SNP_7584_A_6640779	NC_021161.1	Ca_Kabuli_Chr02	6640779	CC	TT	TT	INTERGENIC		
SNP_7585_A_6640852	NC_021161.1	Ca_Kabuli_Chr02	6640852	CC	TT	TT	INTERGENIC		
SNP_7586_A_6640889	NC_021161.1	Ca_Kabuli_Chr02	6640889	AA	TT	TT	INTERGENIC		
SNP_7587_A_6641068	NC_021161.1	Ca_Kabuli_Chr02	6641068	AA	GG	GG	INTERGENIC		
SNP_7588_A_6641252	NC_021161.1	Ca_Kabuli_Chr02	6641252	GG	AA	AA	INTERGENIC		
SNP_7589_A_6641353	NC_021161.1	Ca_Kabuli_Chr02	6641353	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_7590_A_6641462	NC_021161.1	Ca_Kabuli_Chr02	6641462	CC	AA	AA	INTERGENIC			
SNP_7591_A_6641550	NC_021161.1	Ca_Kabuli_Chr02	6641550	AA	TT	TT	INTERGENIC			
SNP_7592_A_6641696	NC_021161.1	Ca_Kabuli_Chr02	6641696	GG	TT	TT	INTERGENIC			
SNP_7594_A_6641754	NC_021161.1	Ca_Kabuli_Chr02	6641754	TT	CC	CC	INTERGENIC			
SNP_7595_A_6641774	NC_021161.1	Ca_Kabuli_Chr02	6641774	GG	AA	AA	INTERGENIC			
SNP_7596_A_6641798	NC_021161.1	Ca_Kabuli_Chr02	6641798	CC	TT	TT	INTERGENIC			
SNP_7597_A_6641836	NC_021161.1	Ca_Kabuli_Chr02	6641836	CC	TT	TT	INTERGENIC			
SNP_7599_A_6642051	NC_021161.1	Ca_Kabuli_Chr02	6642051	GG	TT	TT	INTERGENIC			
SNP_7600_A_6642168	NC_021161.1	Ca_Kabuli_Chr02	6642168	CC	AA	AA	INTERGENIC			
SNP_7601_A_6642216	NC_021161.1	Ca_Kabuli_Chr02	6642216	AA	GG	GG	INTERGENIC			
SNP_7602_A_6642298	NC_021161.1	Ca_Kabuli_Chr02	6642298	GG	TT	TT	INTERGENIC			
SNP_7603_A_6642359	NC_021161.1	Ca_Kabuli_Chr02	6642359	AA	CC	CC	INTERGENIC			
SNP_7604_A_6642448	NC_021161.1	Ca_Kabuli_Chr02	6642448	GG	TT	TT	INTERGENIC			
SNP_7605_A_6642481	NC_021161.1	Ca_Kabuli_Chr02	6642481	GG	AA	AA	INTERGENIC			
SNP_7607_A_6642564	NC_021161.1	Ca_Kabuli_Chr02	6642564	CC	AA	AA	INTERGENIC			
SNP_7608_A_6642720	NC_021161.1	Ca_Kabuli_Chr02	6642720	CC	TT	TT	INTERGENIC			
SNP_7609_A_6642729	NC_021161.1	Ca_Kabuli_Chr02	6642729	TT	AA	AA	INTERGENIC			
SNP_7610_A_6642762	NC_021161.1	Ca_Kabuli_Chr02	6642762	GG	TT	TT	INTERGENIC			
SNP_7611_A_6642785	NC_021161.1	Ca_Kabuli_Chr02	6642785	AA	TT	TT	INTERGENIC			
SNP_7612_A_6643061	NC_021161.1	Ca_Kabuli_Chr02	6643061	CC	GG	GG	INTERGENIC			
SNP_7613_A_6643125	NC_021161.1	Ca_Kabuli_Chr02	6643125	CC	GG	GG	INTERGENIC			
SNP_7614_A_6643264	NC_021161.1	Ca_Kabuli_Chr02	6643264	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_7615_A_6643272	NC_021161.1	Ca_Kabuli_Chr02	6643272	AA	CC	CC	INTERGENIC			
SNP_7616_A_6643331	NC_021161.1	Ca_Kabuli_Chr02	6643331	CC	AA	AA	INTERGENIC			
SNP_7617_A_6643355	NC_021161.1	Ca_Kabuli_Chr02	6643355	AA	GG	GG	INTERGENIC			
SNP_7618_A_6643418	NC_021161.1	Ca_Kabuli_Chr02	6643418	CC	TT	TT	INTERGENIC			
SNP_7619_A_6643563	NC_021161.1	Ca_Kabuli_Chr02	6643563	AA	TT	TT	INTERGENIC			
SNP_7620_A_6643589	NC_021161.1	Ca_Kabuli_Chr02	6643589	CC	TT	TT	INTERGENIC			
SNP_7622_A_6643784	NC_021161.1	Ca_Kabuli_Chr02	6643784	CC	TT	TT	INTERGENIC			
SNP_7624_A_6644903	NC_021161.1	Ca_Kabuli_Chr02	6644903	AA	CC	CC	INTERGENIC			
SNP_7625_A_6644904	NC_021161.1	Ca_Kabuli_Chr02	6644904	CC	TT	TT	INTERGENIC			
SNP_7626_A_6644964	NC_021161.1	Ca_Kabuli_Chr02	6644964	TT	CC	CC	INTERGENIC			
SNP_7627_A_6645276	NC_021161.1	Ca_Kabuli_Chr02	6645276	AA	GG	GG	INTERGENIC			
SNP_7628_A_6645291	NC_021161.1	Ca_Kabuli_Chr02	6645291	AA	GG	GG	INTERGENIC			
SNP_7629_A_6645326	NC_021161.1	Ca_Kabuli_Chr02	6645326	CC	AA	AA	INTERGENIC			
SNP_7630_A_6645327	NC_021161.1	Ca_Kabuli_Chr02	6645327	CC	TT	TT	INTERGENIC			
SNP_7631_A_6645440	NC_021161.1	Ca_Kabuli_Chr02	6645440	AA	GG	GG	INTERGENIC			
SNP_7632_A_6645522	NC_021161.1	Ca_Kabuli_Chr02	6645522	TT	CC	CC	INTERGENIC			
SNP_7633_A_6645608	NC_021161.1	Ca_Kabuli_Chr02	6645608	AA	GG	GG	INTERGENIC			
SNP_7634_A_6645737	NC_021161.1	Ca_Kabuli_Chr02	6645737	CC	GG	GG	INTERGENIC			
SNP_7635_A_6645747	NC_021161.1	Ca_Kabuli_Chr02	6645747	TT	AA	AA	INTERGENIC			
SNP_7636_A_6646210	NC_021161.1	Ca_Kabuli_Chr02	6646210	GG	AA	AA	INTERGENIC			
SNP_7637_A_6648078	NC_021161.1	Ca_Kabuli_Chr02	6648078	TT	CC	CC	INTERGENIC			
SNP_7638_A_6648216	NC_021161.1	Ca_Kabuli_Chr02	6648216	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_7640_A_6648858	NC_021161.1	Ca_Kabuli_Chr02	6648858	AA	GG	GG	INTERGENIC			
SNP_7642_A_6649839	NC_021161.1	Ca_Kabuli_Chr02	6649839	AA	TT	TT	INTERGENIC			
SNP_7643_A_6650404	NC_021161.1	Ca_Kabuli_Chr02	6650404	GG	AA	AA	INTERGENIC			
SNP_7644_A_6650405	NC_021161.1	Ca_Kabuli_Chr02	6650405	CC	TT	TT	INTERGENIC			
SNP_7645_A_6656012	NC_021161.1	Ca_Kabuli_Chr02	6656012	AA	GG	GG	INTERGENIC			
SNP_7646_A_6656227	NC_021161.1	Ca_Kabuli_Chr02	6656227	TT	GG	GG	INTERGENIC			
SNP_7647_A_6656417	NC_021161.1	Ca_Kabuli_Chr02	6656417	CC	TT	TT	INTERGENIC			
SNP_7648_A_6657739	NC_021161.1	Ca_Kabuli_Chr02	6657739	TT	AA	AA	INTERGENIC			
SNP_7649_A_6657743	NC_021161.1	Ca_Kabuli_Chr02	6657743	CC	TT	TT	INTERGENIC			
SNP_7650_A_6657746	NC_021161.1	Ca_Kabuli_Chr02	6657746	TT	CC	CC	INTERGENIC			
SNP_7651_A_6657747	NC_021161.1	Ca_Kabuli_Chr02	6657747	TT	AA	AA	INTERGENIC			
SNP_7652_A_6657748	NC_021161.1	Ca_Kabuli_Chr02	6657748	TT	AA	AA	INTERGENIC			
SNP_7653_A_6657947	NC_021161.1	Ca_Kabuli_Chr02	6657947	TT	AA	AA	INTERGENIC			
SNP_7654_A_6659142	NC_021161.1	Ca_Kabuli_Chr02	6659142	TT	GG	GG	INTERGENIC			
SNP_7655_A_6659310	NC_021161.1	Ca_Kabuli_Chr02	6659310	GG	AA	AA	INTERGENIC			
SNP_7656_A_6668360	NC_021161.1	Ca_Kabuli_Chr02	6668360	TT	CC	CC	INTERGENIC			
SNP_7657_A_6670897	NC_021161.1	Ca_Kabuli_Chr02	6670897	TT	AA	AA	INTERGENIC			
SNP_7658_A_6681008	NC_021161.1	Ca_Kabuli_Chr02	6681008	GG	TT	TT	INTERGENIC			
SNP_7659_A_6681207	NC_021161.1	Ca_Kabuli_Chr02	6681207	CC	TT	TT	INTERGENIC			
SNP_7660_A_6681280	NC_021161.1	Ca_Kabuli_Chr02	6681280	GG	AA	AA	INTERGENIC			
SNP_7661_A_6681481	NC_021161.1	Ca_Kabuli_Chr02	6681481	AA	TT	TT	INTERGENIC			
SNP_7662_A_6687463	NC_021161.1	Ca_Kabuli_Chr02	6687463	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_7663_A_6687519	NC_021161.1	Ca_Kabuli_Chr02	6687519	AA	TT	TT	INTERGENIC			
SNP_7664_A_6687523	NC_021161.1	Ca_Kabuli_Chr02	6687523	CC	TT	TT	INTERGENIC			
SNP_7665_A_6687530	NC_021161.1	Ca_Kabuli_Chr02	6687530	TT	GG	GG	INTERGENIC			
SNP_7666_A_6687606	NC_021161.1	Ca_Kabuli_Chr02	6687606	CC	TT	TT	INTERGENIC			
SNP_7667_A_6687616	NC_021161.1	Ca_Kabuli_Chr02	6687616	AA	GG	GG	INTERGENIC			
SNP_7668_A_6687638	NC_021161.1	Ca_Kabuli_Chr02	6687638	TT	GG	GG	INTERGENIC			
SNP_7669_A_6687791	NC_021161.1	Ca_Kabuli_Chr02	6687791	AA	GG	GG	INTERGENIC			
SNP_7670_A_6689904	NC_021161.1	Ca_Kabuli_Chr02	6689904	TT	CC	CC	INTERGENIC			
SNP_7671_A_6690146	NC_021161.1	Ca_Kabuli_Chr02	6690146	GG	AA	AA	INTERGENIC			
SNP_7672_A_6691892	NC_021161.1	Ca_Kabuli_Chr02	6691892	TT	GG	GG	INTERGENIC			
SNP_7673_A_6691903	NC_021161.1	Ca_Kabuli_Chr02	6691903	AA	GG	GG	INTERGENIC			
SNP_7674_A_6691922	NC_021161.1	Ca_Kabuli_Chr02	6691922	AA	GG	GG	INTERGENIC			
SNP_7675_A_6691932	NC_021161.1	Ca_Kabuli_Chr02	6691932	GG	AA	AA	INTERGENIC			
SNP_7676_A_6691939	NC_021161.1	Ca_Kabuli_Chr02	6691939	GG	TT	TT	INTERGENIC			
SNP_7677_A_6691990	NC_021161.1	Ca_Kabuli_Chr02	6691990	GG	AA	AA	INTERGENIC			
SNP_7678_A_6691997	NC_021161.1	Ca_Kabuli_Chr02	6691997	AA	GG	GG	INTERGENIC			
SNP_7680_A_6774438	NC_021161.1	Ca_Kabuli_Chr02	6774438	GG	AA	AA	INTERGENIC			
SNP_7681_A_6782056	NC_021161.1	Ca_Kabuli_Chr02	6782056	GG	AA	AA	INTERGENIC			
SNP_7683_A_6815088	NC_021161.1	Ca_Kabuli_Chr02	6815088	AA	CC	CC	INTERGENIC			
SNP_7684_A_6815091	NC_021161.1	Ca_Kabuli_Chr02	6815091	TT	CC	CC	INTERGENIC			
SNP_7685_A_6815464	NC_021161.1	Ca_Kabuli_Chr02	6815464	TT	CC	CC	INTERGENIC			
SNP_7686_A_6815526	NC_021161.1	Ca_Kabuli_Chr02	6815526	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7687_A_6820527	NC_021161.1	Ca_Kabuli_Chr02	6820527	AA	CC	CC	INTERGENIC		
SNP_7688_A_6828384	NC_021161.1	Ca_Kabuli_Chr02	6828384	CC	TT	TT	INTERGENIC		
SNP_7689_A_6828416	NC_021161.1	Ca_Kabuli_Chr02	6828416	GG	AA	AA	INTERGENIC		
SNP_7692_A_7002435	NC_021161.1	Ca_Kabuli_Chr02	7002435	AA	GG	GG	INTERGENIC		
SNP_7693_A_7002762	NC_021161.1	Ca_Kabuli_Chr02	7002762	AA	CC	CC	INTERGENIC		
SNP_7694_A_7002766	NC_021161.1	Ca_Kabuli_Chr02	7002766	GG	AA	AA	INTERGENIC		
SNP_7695_A_7002783	NC_021161.1	Ca_Kabuli_Chr02	7002783	TT	GG	GG	INTERGENIC		
SNP_7696_A_7002821	NC_021161.1	Ca_Kabuli_Chr02	7002821	CC	TT	TT	INTERGENIC		
SNP_7697_A_7062743	NC_021161.1	Ca_Kabuli_Chr02	7062743	TT	GG	GG	INTRON	101489147	protein S-acyltransferase 8-like
SNP_7698_A_7075498	NC_021161.1	Ca_Kabuli_Chr02	7075498	GG	TT	TT	INTERGENIC		
SNP_7699_A_7075601	NC_021161.1	Ca_Kabuli_Chr02	7075601	AA	GG	GG	INTERGENIC		
SNP_7700_A_7075735	NC_021161.1	Ca_Kabuli_Chr02	7075735	TT	CC	CC	INTERGENIC		
SNP_7701_A_7075939	NC_021161.1	Ca_Kabuli_Chr02	7075939	AA	GG	GG	INTERGENIC		
SNP_7702_A_7126937	NC_021161.1	Ca_Kabuli_Chr02	7126937	GG	AA	AA	INTRON	101493266	uncharacterized oxidoreductase At4g09670-like
SNP_7704_A_7171728	NC_021161.1	Ca_Kabuli_Chr02	7171728	AA	CC	CC	INTERGENIC		
SNP_7707_A_7171984	NC_021161.1	Ca_Kabuli_Chr02	7171984	TT	CC	CC	INTERGENIC		
SNP_7710_A_7172745	NC_021161.1	Ca_Kabuli_Chr02	7172745	CC	TT	TT	DRR	101497470	ruBisCO-associated protein-like
SNP_7711_A_7173097	NC_021161.1	Ca_Kabuli_Chr02	7173097	AA	TT	TT	DRR	101497470	ruBisCO-associated protein-like
SNP_7713_A_7177569	NC_021161.1	Ca_Kabuli_Chr02	7177569	GG	CC	CC	INTERGENIC		
SNP_7714_A_7189794	NC_021161.1	Ca_Kabuli_Chr02	7189794	GG	AA	AA	INTERGENIC		
SNP_7715_A_7226335	NC_021161.1	Ca_Kabuli_Chr02	7226335	CC	GG	GG	INTERGENIC		
SNP_7716_A_7243217	NC_021161.1	Ca_Kabuli_Chr02	7243217	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7717_A_7256769	NC_021161.1	Ca_Kabuli_Chr02	7256769	TT	CC	CC	URR	101497806	uncharacterized LOC101497806
SNP_7718_A_7261353	NC_021161.1	Ca_Kabuli_Chr02	7261353	GG	AA	AA	SYNONYMOUS_CODING	101498999	uncharacterized LOC101498999
SNP_7719_A_7261687	NC_021161.1	Ca_Kabuli_Chr02	7261687	CC	AA	AA	URR	101498999	uncharacterized LOC101498999
SNP_7720_A_7275018	NC_021161.1	Ca_Kabuli_Chr02	7275018	AA	TT	TT	INTERGENIC		
SNP_7721_A_7275026	NC_021161.1	Ca_Kabuli_Chr02	7275026	AA	GG	GG	INTERGENIC		
SNP_7723_A_7279611	NC_021161.1	Ca_Kabuli_Chr02	7279611	TT	CC	CC	INTERGENIC		
SNP_7724_A_7280160	NC_021161.1	Ca_Kabuli_Chr02	7280160	AA	GG	GG	INTERGENIC		
SNP_7725_A_7280227	NC_021161.1	Ca_Kabuli_Chr02	7280227	GG	AA	AA	INTERGENIC		
SNP_7726_A_7280301	NC_021161.1	Ca_Kabuli_Chr02	7280301	GG	AA	AA	INTERGENIC		
SNP_7728_A_7321905	NC_021161.1	Ca_Kabuli_Chr02	7321905	AA	GG	GG	INTERGENIC		
SNP_7729_A_7339716	NC_021161.1	Ca_Kabuli_Chr02	7339716	GG	AA	AA	INTERGENIC		
SNP_7730_A_7339768	NC_021161.1	Ca_Kabuli_Chr02	7339768	TT	CC	CC	INTERGENIC		
SNP_7731_A_7340814	NC_021161.1	Ca_Kabuli_Chr02	7340814	TT	GG	GG	INTERGENIC		
SNP_7732_A_7340822	NC_021161.1	Ca_Kabuli_Chr02	7340822	AA	GG	GG	INTERGENIC		
SNP_7734_A_7340976	NC_021161.1	Ca_Kabuli_Chr02	7340976	GG	AA	AA	INTERGENIC		
SNP_7735_A_7349219	NC_021161.1	Ca_Kabuli_Chr02	7349219	GG	CC	CC	INTERGENIC		
SNP_7736_A_7362480	NC_021161.1	Ca_Kabuli_Chr02	7362480	TT	CC	CC	INTERGENIC		
SNP_7737_A_7369667	NC_021161.1	Ca_Kabuli_Chr02	7369667	CC	TT	TT	INTERGENIC		
SNP_7738_A_7446120	NC_021161.1	Ca_Kabuli_Chr02	7446120	GG	AA	AA	INTERGENIC		
SNP_7739_A_7458602	NC_021161.1	Ca_Kabuli_Chr02	7458602	GG	TT	TT	INTERGENIC		
SNP_7740_A_7524633	NC_021161.1	Ca_Kabuli_Chr02	7524633	TT	CC	CC	INTERGENIC		
SNP_7741_A_7524642	NC_021161.1	Ca_Kabuli_Chr02	7524642	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_7742_A_7524675	NC_021161.1	Ca_Kabuli_Chr02	7524675	CC	TT	TT	INTERGENIC			
SNP_7743_A_7524676	NC_021161.1	Ca_Kabuli_Chr02	7524676	AA	GG	GG	INTERGENIC			
SNP_7744_A_7524781	NC_021161.1	Ca_Kabuli_Chr02	7524781	TT	GG	GG	INTERGENIC			
SNP_7745_A_7524804	NC_021161.1	Ca_Kabuli_Chr02	7524804	CC	TT	TT	INTERGENIC			
SNP_7746_A_7524835	NC_021161.1	Ca_Kabuli_Chr02	7524835	AA	GG	GG	INTERGENIC			
SNP_7747_A_7524991	NC_021161.1	Ca_Kabuli_Chr02	7524991	TT	CC	CC	INTERGENIC			
SNP_7748_A_7525000	NC_021161.1	Ca_Kabuli_Chr02	7525000	AA	TT	TT	INTERGENIC			
SNP_7749_A_7525006	NC_021161.1	Ca_Kabuli_Chr02	7525006	CC	TT	TT	INTERGENIC			
SNP_7750_A_7525096	NC_021161.1	Ca_Kabuli_Chr02	7525096	TT	CC	CC	INTERGENIC			
SNP_7751_A_7525134	NC_021161.1	Ca_Kabuli_Chr02	7525134	TT	CC	CC	INTERGENIC			
SNP_7752_A_7525144	NC_021161.1	Ca_Kabuli_Chr02	7525144	CC	GG	GG	INTERGENIC			
SNP_7753_A_7525216	NC_021161.1	Ca_Kabuli_Chr02	7525216	TT	AA	AA	INTERGENIC			
SNP_7754_A_7525247	NC_021161.1	Ca_Kabuli_Chr02	7525247	AA	GG	GG	INTERGENIC			
SNP_7755_A_7525264	NC_021161.1	Ca_Kabuli_Chr02	7525264	TT	CC	CC	INTERGENIC			
SNP_7759_A_7574703	NC_021161.1	Ca_Kabuli_Chr02	7574703	AA	GG	GG	INTERGENIC			
SNP_7760_A_7590313	NC_021161.1	Ca_Kabuli_Chr02	7590313	AA	CC	CC	INTERGENIC			
SNP_7761_A_7593520	NC_021161.1	Ca_Kabuli_Chr02	7593520	TT	GG	GG	DRR	101515170	uncharacterized LOC101515170	
SNP_7762_A_7611680	NC_021161.1	Ca_Kabuli_Chr02	7611680	CC	TT	TT	INTERGENIC			
SNP_7764_A_7614769	NC_021161.1	Ca_Kabuli_Chr02	7614769	TT	CC	CC	INTERGENIC			
SNP_7766_A_7654191	NC_021161.1	Ca_Kabuli_Chr02	7654191	AA	CC	CC	INTERGENIC			
SNP_7767_A_7654206	NC_021161.1	Ca_Kabuli_Chr02	7654206	GG	AA	AA	INTERGENIC			
SNP_7768_A_7654222	NC_021161.1	Ca_Kabuli_Chr02	7654222	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7769_A_7654622	NC_021161.1	Ca_Kabuli_Chr02	7654622	TT	AA	AA	INTERGENIC		
SNP_7770_A_7654623	NC_021161.1	Ca_Kabuli_Chr02	7654623	TT	AA	AA	INTERGENIC		
SNP_7771_A_7654634	NC_021161.1	Ca_Kabuli_Chr02	7654634	AA	TT	TT	INTERGENIC		
SNP_7773_A_7657166	NC_021161.1	Ca_Kabuli_Chr02	7657166	TT	CC	CC	INTERGENIC		
SNP_7774_A_7657220	NC_021161.1	Ca_Kabuli_Chr02	7657220	TT	CC	CC	INTERGENIC		
SNP_7775_A_7657226	NC_021161.1	Ca_Kabuli_Chr02	7657226	GG	AA	AA	INTERGENIC		
SNP_7776_A_7657264	NC_021161.1	Ca_Kabuli_Chr02	7657264	CC	TT	TT	INTERGENIC		
SNP_7777_A_7657272	NC_021161.1	Ca_Kabuli_Chr02	7657272	AA	GG	GG	INTERGENIC		
SNP_7778_A_7657664	NC_021161.1	Ca_Kabuli_Chr02	7657664	GG	AA	AA	INTERGENIC		
SNP_7779_A_7657665	NC_021161.1	Ca_Kabuli_Chr02	7657665	GG	CC	CC	INTERGENIC		
SNP_7780_A_7665815	NC_021161.1	Ca_Kabuli_Chr02	7665815	TT	AA	AA	INTERGENIC		
SNP_7781_A_7673873	NC_021161.1	Ca_Kabuli_Chr02	7673873	GG	TT	TT	INTERGENIC		
SNP_7782_A_7673908	NC_021161.1	Ca_Kabuli_Chr02	7673908	CC	TT	TT	INTERGENIC		
SNP_7783_A_7674197	NC_021161.1	Ca_Kabuli_Chr02	7674197	AA	GG	GG	INTERGENIC		
SNP_7785_A_7675907	NC_021161.1	Ca_Kabuli_Chr02	7675907	AA	GG	GG	INTERGENIC		
SNP_7786_A_7675927	NC_021161.1	Ca_Kabuli_Chr02	7675927	GG	AA	AA	INTERGENIC		
SNP_7787_A_7676100	NC_021161.1	Ca_Kabuli_Chr02	7676100	AA	GG	GG	INTERGENIC		
SNP_7788_A_7676799	NC_021161.1	Ca_Kabuli_Chr02	7676799	TT	AA	AA	INTERGENIC		
SNP_7789_A_7677215	NC_021161.1	Ca_Kabuli_Chr02	7677215	GG	AA	AA	INTERGENIC		
SNP_7790_A_7677277	NC_021161.1	Ca_Kabuli_Chr02	7677277	AA	GG	GG	INTERGENIC		
SNP_7791_A_7678243	NC_021161.1	Ca_Kabuli_Chr02	7678243	GG	TT	TT	DRR	101503133	protein TRANSPARENT TESTA 12-like
SNP_7792_A_7680689	NC_021161.1	Ca_Kabuli_Chr02	7680689	CC	TT	TT	INTRON	101503133	protein TRANSPARENT TESTA 12-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7795_A_7682100	NC_021161.1	Ca_Kabuli_Chr02	7682100	AA	CC	CC	INTRON	101503133	protein TRANSPARENT TESTA 12-like
SNP_7796_A_7682310	NC_021161.1	Ca_Kabuli_Chr02	7682310	AA	CC	CC	INTRON	101503133	protein TRANSPARENT TESTA 12-like
SNP_7797_A_7684146	NC_021161.1	Ca_Kabuli_Chr02	7684146	GG	AA	AA	URR	101503133	protein TRANSPARENT TESTA 12-like
SNP_7798_A_7685067	NC_021161.1	Ca_Kabuli_Chr02	7685067	TT	CC	CC	URR	101503133	protein TRANSPARENT TESTA 12-like
SNP_7799_A_7688019	NC_021161.1	Ca_Kabuli_Chr02	7688019	TT	CC	CC	INTERGENIC		
SNP_7800_A_7691410	NC_021161.1	Ca_Kabuli_Chr02	7691410	GG	TT	TT	INTERGENIC		
SNP_7801_A_7691414	NC_021161.1	Ca_Kabuli_Chr02	7691414	CC	GG	GG	INTERGENIC		
SNP_7802_A_7691415	NC_021161.1	Ca_Kabuli_Chr02	7691415	TT	CC	CC	INTERGENIC		
SNP_7803_A_7691418	NC_021161.1	Ca_Kabuli_Chr02	7691418	AA	GG	GG	INTERGENIC		
SNP_7804_A_7691448	NC_021161.1	Ca_Kabuli_Chr02	7691448	TT	CC	CC	INTERGENIC		
SNP_7805_A_7691458	NC_021161.1	Ca_Kabuli_Chr02	7691458	GG	AA	AA	INTERGENIC		
SNP_7806_A_7691463	NC_021161.1	Ca_Kabuli_Chr02	7691463	TT	CC	CC	INTERGENIC		
SNP_7807_A_7691578	NC_021161.1	Ca_Kabuli_Chr02	7691578	TT	CC	CC	INTERGENIC		
SNP_7811_A_7703082	NC_021161.1	Ca_Kabuli_Chr02	7703082	AA	GG	GG	INTRON	101503455	protein TRANSPARENT TESTA 12-like
SNP_7813_A_7704045	NC_021161.1	Ca_Kabuli_Chr02	7704045	GG	TT	TT	URR	101503455	protein TRANSPARENT TESTA 12-like
SNP_7814_A_7704288	NC_021161.1	Ca_Kabuli_Chr02	7704288	TT	AA	AA	URR	101503455	protein TRANSPARENT TESTA 12-like
SNP_7816_A_7709844	NC_021161.1	Ca_Kabuli_Chr02	7709844	TT	GG	GG	INTERGENIC		
SNP_7818_A_7711949	NC_021161.1	Ca_Kabuli_Chr02	7711949	TT	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_7819_A_7712262	NC_021161.1	Ca_Kabuli_Chr02	7712262	AA	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_7820_A_7712313	NC_021161.1	Ca_Kabuli_Chr02	7712313	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_7821_A_7713953	NC_021161.1	Ca_Kabuli_Chr02	7713953	GG	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_7822_A_7713962	NC_021161.1	Ca_Kabuli_Chr02	7713962	CC	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7823_A_7714061	NC_021161.1	Ca_Kabuli_Chr02	7714061	TT	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_7824_A_7715365	NC_021161.1	Ca_Kabuli_Chr02	7715365	CC	TT	TT	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_7825_A_7715429	NC_021161.1	Ca_Kabuli_Chr02	7715429	AA	GG	GG	INTRON	101503794	uncharacterized LOC101503794
SNP_7826_A_7715446	NC_021161.1	Ca_Kabuli_Chr02	7715446	AA	GG	GG	INTRON	101503794	uncharacterized LOC101503794
SNP_7827_A_7715484	NC_021161.1	Ca_Kabuli_Chr02	7715484	GG	TT	TT	INTRON	101503794	uncharacterized LOC101503794
SNP_7829_A_7717641	NC_021161.1	Ca_Kabuli_Chr02	7717641	TT	CC	CC	URR	101503794	uncharacterized LOC101503794
SNP_7831_A_7718535	NC_021161.1	Ca_Kabuli_Chr02	7718535	GG	AA	AA	URR	101503794	uncharacterized LOC101503794
SNP_7833_A_7720380	NC_021161.1	Ca_Kabuli_Chr02	7720380	CC	GG	GG	INTERGENIC		
SNP_7834_A_7720385	NC_021161.1	Ca_Kabuli_Chr02	7720385	CC	AA	AA	INTERGENIC		
SNP_7835_A_7720436	NC_021161.1	Ca_Kabuli_Chr02	7720436	GG	AA	AA	INTERGENIC		
SNP_7836_A_7720447	NC_021161.1	Ca_Kabuli_Chr02	7720447	GG	AA	AA	INTERGENIC		
SNP_7837_A_7720450	NC_021161.1	Ca_Kabuli_Chr02	7720450	CC	GG	GG	INTERGENIC		
SNP_7840_A_7721979	NC_021161.1	Ca_Kabuli_Chr02	7721979	CC	TT	TT	INTERGENIC		
SNP_7841_A_7723918	NC_021161.1	Ca_Kabuli_Chr02	7723918	CC	TT	TT	INTERGENIC		
SNP_7844_A_7726783	NC_021161.1	Ca_Kabuli_Chr02	7726783	GG	CC	CC	INTERGENIC		
SNP_7845_A_7729144	NC_021161.1	Ca_Kabuli_Chr02	7729144	GG	TT	TT	INTERGENIC		
SNP_7846_A_7729195	NC_021161.1	Ca_Kabuli_Chr02	7729195	CC	TT	TT	INTERGENIC		
SNP_7847_A_7729388	NC_021161.1	Ca_Kabuli_Chr02	7729388	TT	CC	CC	INTERGENIC		
SNP_7848_A_7729528	NC_021161.1	Ca_Kabuli_Chr02	7729528	TT	CC	CC	INTERGENIC		
SNP_7850_A_7738423	NC_021161.1	Ca_Kabuli_Chr02	7738423	CC	GG	GG	INTERGENIC		
SNP_7851_A_7738557	NC_021161.1	Ca_Kabuli_Chr02	7738557	AA	GG	GG	INTERGENIC		
SNP_7852_A_7738558	NC_021161.1	Ca_Kabuli_Chr02	7738558	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7853_A_7738604	NC_021161.1	Ca_Kabuli_Chr02	7738604	GG	AA	AA	INTERGENIC		
SNP_7854_A_7738763	NC_021161.1	Ca_Kabuli_Chr02	7738763	TT	GG	GG	INTERGENIC		
SNP_7855_A_7743347	NC_021161.1	Ca_Kabuli_Chr02	7743347	GG	AA	AA	INTERGENIC		
SNP_7859_A_7748362	NC_021161.1	Ca_Kabuli_Chr02	7748362	AA	TT	TT	INTERGENIC		
SNP_7860_A_7748987	NC_021161.1	Ca_Kabuli_Chr02	7748987	TT	CC	CC	INTERGENIC		
SNP_7861_A_7753063	NC_021161.1	Ca_Kabuli_Chr02	7753063	TT	CC	CC	INTERGENIC		
SNP_7862_A_7753353	NC_021161.1	Ca_Kabuli_Chr02	7753353	AA	CC	CC	INTERGENIC		
SNP_7864_A_7758232	NC_021161.1	Ca_Kabuli_Chr02	7758232	GG	AA	AA	URR	101504323	uncharacterized LOC101504323
SNP_7865_A_7758237	NC_021161.1	Ca_Kabuli_Chr02	7758237	GG	AA	AA	URR	101504323	uncharacterized LOC101504323
SNP_7867_A_7772441	NC_021161.1	Ca_Kabuli_Chr02	7772441	AA	TT	TT	INTERGENIC		
SNP_7868_A_7772503	NC_021161.1	Ca_Kabuli_Chr02	7772503	TT	GG	GG	INTERGENIC		
SNP_7870_A_7773310	NC_021161.1	Ca_Kabuli_Chr02	7773310	AA	GG	GG	INTERGENIC		
SNP_7871_A_7773429	NC_021161.1	Ca_Kabuli_Chr02	7773429	TT	CC	CC	INTERGENIC		
SNP_7872_A_7773454	NC_021161.1	Ca_Kabuli_Chr02	7773454	TT	CC	CC	INTERGENIC		
SNP_7873_A_7773483	NC_021161.1	Ca_Kabuli_Chr02	7773483	TT	AA	AA	INTERGENIC		
SNP_7875_A_7774583	NC_021161.1	Ca_Kabuli_Chr02	7774583	GG	AA	AA	INTERGENIC		
SNP_7876_A_7774783	NC_021161.1	Ca_Kabuli_Chr02	7774783	AA	CC	CC	INTERGENIC		
SNP_7877_A_7774815	NC_021161.1	Ca_Kabuli_Chr02	7774815	AA	TT	TT	INTERGENIC		
SNP_7878_A_7774816	NC_021161.1	Ca_Kabuli_Chr02	7774816	GG	AA	AA	INTERGENIC		
SNP_7879_A_7774830	NC_021161.1	Ca_Kabuli_Chr02	7774830	CC	TT	TT	INTERGENIC		
SNP_7880_A_7774844	NC_021161.1	Ca_Kabuli_Chr02	7774844	GG	AA	AA	INTERGENIC		
SNP_7884_A_7783419	NC_021161.1	Ca_Kabuli_Chr02	7783419	AA	CC	CC	DRR	101515490	serine/threonine-protein phosphatase 7 long form homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7885_A_7783481	NC_021161.1	Ca_Kabuli_Chr02	7783481	CC	TT	TT	DRR	101515490	serine/threonine-protein phosphatase 7 long form homolog
SNP_7886_A_7784015	NC_021161.1	Ca_Kabuli_Chr02	7784015	TT	CC	CC	SYNONYMOUS_CODING	101515490	serine/threonine-protein phosphatase 7 long form homolog
SNP_7887_A_7784050	NC_021161.1	Ca_Kabuli_Chr02	7784050	CC	AA	AA	NON_SYNONYMOUS_CODING	101515490	serine/threonine-protein phosphatase 7 long form homolog
SNP_7889_A_7788954	NC_021161.1	Ca_Kabuli_Chr02	7788954	GG	AA	AA	INTERGENIC		
SNP_7891_A_7789483	NC_021161.1	Ca_Kabuli_Chr02	7789483	TT	CC	CC	INTERGENIC		
SNP_7893_A_7793083	NC_021161.1	Ca_Kabuli_Chr02	7793083	CC	TT	TT	INTERGENIC		
SNP_7894_A_7793558	NC_021161.1	Ca_Kabuli_Chr02	7793558	AA	GG	GG	INTERGENIC		
SNP_7895_A_7796274	NC_021161.1	Ca_Kabuli_Chr02	7796274	TT	AA	AA	INTERGENIC		
SNP_7896_A_7796756	NC_021161.1	Ca_Kabuli_Chr02	7796756	TT	AA	AA	INTERGENIC		
SNP_7897_A_7796837	NC_021161.1	Ca_Kabuli_Chr02	7796837	TT	CC	CC	INTERGENIC		
SNP_7898_A_7796953	NC_021161.1	Ca_Kabuli_Chr02	7796953	AA	GG	GG	INTERGENIC		
SNP_7899_A_7797026	NC_021161.1	Ca_Kabuli_Chr02	7797026	AA	TT	TT	INTERGENIC		
SNP_7900_A_7797202	NC_021161.1	Ca_Kabuli_Chr02	7797202	TT	AA	AA	INTERGENIC		
SNP_7901_A_7798746	NC_021161.1	Ca_Kabuli_Chr02	7798746	CC	TT	TT	INTERGENIC		
SNP_7902_A_7800228	NC_021161.1	Ca_Kabuli_Chr02	7800228	TT	AA	AA	SYNONYMOUS_CODING	101504970	ethylene-responsive transcription factor ESR2-like
SNP_7903_A_7800234	NC_021161.1	Ca_Kabuli_Chr02	7800234	TT	CC	CC	SYNONYMOUS_CODING	101504970	ethylene-responsive transcription factor ESR2-like
SNP_7904_A_7800256	NC_021161.1	Ca_Kabuli_Chr02	7800256	GG	AA	AA	NON_SYNONYMOUS_CODING	101504970	ethylene-responsive transcription factor ESR2-like
SNP_7905_A_7813579	NC_021161.1	Ca_Kabuli_Chr02	7813579	GG	AA	AA	INTERGENIC		
SNP_7906_A_7813584	NC_021161.1	Ca_Kabuli_Chr02	7813584	AA	GG	GG	INTERGENIC		
SNP_7907_A_7814767	NC_021161.1	Ca_Kabuli_Chr02	7814767	CC	TT	TT	INTERGENIC		
SNP_7909_A_7822447	NC_021161.1	Ca_Kabuli_Chr02	7822447	GG	AA	AA	URR	101505281	flavonol synthase/flavanone 3-hydroxylase-like
SNP_7910_A_7823729	NC_021161.1	Ca_Kabuli_Chr02	7823729	TT	CC	CC	URR	101505608	plant intracellular Ras-group-related LRR protein 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7912_A_7825320	NC_021161.1	Ca_Kabuli_Chr02	7825320	CC	GG	GG	URR	101505608	plant intracellular Ras-group-related LRR protein 3
SNP_7913_A_7825518	NC_021161.1	Ca_Kabuli_Chr02	7825518	GG	AA	AA	INTERGENIC		
SNP_7914_A_7825520	NC_021161.1	Ca_Kabuli_Chr02	7825520	GG	AA	AA	INTERGENIC		
SNP_7915_A_7834968	NC_021161.1	Ca_Kabuli_Chr02	7834968	TT	AA	AA	INTERGENIC		
SNP_7916_A_7880835	NC_021161.1	Ca_Kabuli_Chr02	7880835	AA	GG	GG	INTERGENIC		
SNP_7917_A_7880952	NC_021161.1	Ca_Kabuli_Chr02	7880952	TT	CC	CC	INTERGENIC		
SNP_7918_A_7880954	NC_021161.1	Ca_Kabuli_Chr02	7880954	CC	AA	AA	INTERGENIC		
SNP_7919_A_7880957	NC_021161.1	Ca_Kabuli_Chr02	7880957	GG	AA	AA	INTERGENIC		
SNP_7920_A_7880984	NC_021161.1	Ca_Kabuli_Chr02	7880984	CC	TT	TT	INTERGENIC		
SNP_7923_A_7881340	NC_021161.1	Ca_Kabuli_Chr02	7881340	AA	GG	GG	INTERGENIC		
SNP_7924_A_7881360	NC_021161.1	Ca_Kabuli_Chr02	7881360	TT	CC	CC	INTERGENIC		
SNP_7926_A_7881864	NC_021161.1	Ca_Kabuli_Chr02	7881864	GG	AA	AA	INTERGENIC		
SNP_7927_A_7881894	NC_021161.1	Ca_Kabuli_Chr02	7881894	TT	AA	AA	INTERGENIC		
SNP_7928_A_7881914	NC_021161.1	Ca_Kabuli_Chr02	7881914	TT	AA	AA	INTERGENIC		
SNP_7929_A_7881916	NC_021161.1	Ca_Kabuli_Chr02	7881916	GG	TT	TT	INTERGENIC		
SNP_7930_A_7882633	NC_021161.1	Ca_Kabuli_Chr02	7882633	CC	AA	AA	DRR	101507976	uncharacterized LOC101507976
SNP_7931_A_7883069	NC_021161.1	Ca_Kabuli_Chr02	7883069	GG	AA	AA	DRR	101507976	uncharacterized LOC101507976
SNP_7932_A_7883096	NC_021161.1	Ca_Kabuli_Chr02	7883096	CC	TT	TT	INTERGENIC		
SNP_7934_A_7887376	NC_021161.1	Ca_Kabuli_Chr02	7887376	GG	AA	AA	DRR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7936_A_7887555	NC_021161.1	Ca_Kabuli_Chr02	7887555	TT	CC	CC	DRR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7937_A_7887634	NC_021161.1	Ca_Kabuli_Chr02	7887634	AA	GG	GG	DRR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7939_A_7887860	NC_021161.1	Ca_Kabuli_Chr02	7887860	CC	TT	TT	DRR	101508288	glutamate--glyoxylate aminotransferase 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7940_A_7889549	NC_021161.1	Ca_Kabuli_Chr02	7889549	TT	CC	CC	INTRON	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7941_A_7889578	NC_021161.1	Ca_Kabuli_Chr02	7889578	AA	GG	GG	INTRON	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7942_A_7892992	NC_021161.1	Ca_Kabuli_Chr02	7892992	TT	GG	GG	INTERGENIC		
SNP_7943_A_7893005	NC_021161.1	Ca_Kabuli_Chr02	7893005	TT	CC	CC	INTERGENIC		
SNP_7944_A_7893009	NC_021161.1	Ca_Kabuli_Chr02	7893009	TT	CC	CC	INTERGENIC		
SNP_7945_A_7893021	NC_021161.1	Ca_Kabuli_Chr02	7893021	TT	GG	GG	INTERGENIC		
SNP_7946_A_7893090	NC_021161.1	Ca_Kabuli_Chr02	7893090	TT	AA	AA	INTERGENIC		
SNP_7947_A_7894280	NC_021161.1	Ca_Kabuli_Chr02	7894280	CC	TT	TT	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7948_A_7895282	NC_021161.1	Ca_Kabuli_Chr02	7895282	AA	TT	TT	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7949_A_7895292	NC_021161.1	Ca_Kabuli_Chr02	7895292	TT	CC	CC	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7950_A_7895605	NC_021161.1	Ca_Kabuli_Chr02	7895605	CC	TT	TT	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7951_A_7895606	NC_021161.1	Ca_Kabuli_Chr02	7895606	TT	CC	CC	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7952_A_7895768	NC_021161.1	Ca_Kabuli_Chr02	7895768	CC	GG	GG	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7953_A_7895928	NC_021161.1	Ca_Kabuli_Chr02	7895928	CC	TT	TT	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7954_A_7895946	NC_021161.1	Ca_Kabuli_Chr02	7895946	AA	TT	TT	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7955_A_7895970	NC_021161.1	Ca_Kabuli_Chr02	7895970	TT	GG	GG	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7956_A_7896101	NC_021161.1	Ca_Kabuli_Chr02	7896101	AA	GG	GG	URR	101508288	glutamate--glyoxylate aminotransferase 2
SNP_7957_A_7896139	NC_021161.1	Ca_Kabuli_Chr02	7896139	GG	CC	CC	DRR	101488573	uncharacterized LOC101488573
SNP_7958_A_7896160	NC_021161.1	Ca_Kabuli_Chr02	7896160	AA	GG	GG	DRR	101488573	uncharacterized LOC101488573
SNP_7959_A_7896439	NC_021161.1	Ca_Kabuli_Chr02	7896439	TT	CC	CC	DRR	101488573	uncharacterized LOC101488573
SNP_7960_A_7909411	NC_021161.1	Ca_Kabuli_Chr02	7909411	TT	CC	CC	INTERGENIC		
SNP_7961_A_7909420	NC_021161.1	Ca_Kabuli_Chr02	7909420	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7962_A_7909428	NC_021161.1	Ca_Kabuli_Chr02	7909428	GG	CC	CC	INTERGENIC		
SNP_7963_A_7909439	NC_021161.1	Ca_Kabuli_Chr02	7909439	AA	GG	GG	INTERGENIC		
SNP_7964_A_7909455	NC_021161.1	Ca_Kabuli_Chr02	7909455	TT	CC	CC	INTERGENIC		
SNP_7965_A_7909716	NC_021161.1	Ca_Kabuli_Chr02	7909716	CC	TT	TT	INTERGENIC		
SNP_7966_A_7909717	NC_021161.1	Ca_Kabuli_Chr02	7909717	CC	TT	TT	INTERGENIC		
SNP_7967_A_7909724	NC_021161.1	Ca_Kabuli_Chr02	7909724	AA	GG	GG	INTERGENIC		
SNP_7968_A_7913577	NC_021161.1	Ca_Kabuli_Chr02	7913577	TT	CC	CC	URR	101508816	ribose-phosphate pyrophosphokinase 4
SNP_7969_A_7915813	NC_021161.1	Ca_Kabuli_Chr02	7915813	AA	CC	CC	URR	101509139	peroxidase 57-like
SNP_7970_A_7915827	NC_021161.1	Ca_Kabuli_Chr02	7915827	GG	AA	AA	URR	101509139	peroxidase 57-like
SNP_7971_A_7915838	NC_021161.1	Ca_Kabuli_Chr02	7915838	TT	CC	CC	URR	101509139	peroxidase 57-like
SNP_7973_A_7916017	NC_021161.1	Ca_Kabuli_Chr02	7916017	TT	CC	CC	URR	101509139	peroxidase 57-like
SNP_7974_A_7916150	NC_021161.1	Ca_Kabuli_Chr02	7916150	AA	GG	GG	URR	101509139	peroxidase 57-like
SNP_7975_A_7916212	NC_021161.1	Ca_Kabuli_Chr02	7916212	CC	TT	TT	URR	101509139	peroxidase 57-like
SNP_7976_A_7916221	NC_021161.1	Ca_Kabuli_Chr02	7916221	AA	CC	CC	URR	101509139	peroxidase 57-like
SNP_7977_A_7919434	NC_021161.1	Ca_Kabuli_Chr02	7919434	TT	CC	CC	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7978_A_7919447	NC_021161.1	Ca_Kabuli_Chr02	7919447	GG	CC	CC	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7979_A_7919456	NC_021161.1	Ca_Kabuli_Chr02	7919456	TT	CC	CC	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7980_A_7919605	NC_021161.1	Ca_Kabuli_Chr02	7919605	AA	TT	TT	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7981_A_7920611	NC_021161.1	Ca_Kabuli_Chr02	7920611	CC	GG	GG	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7982_A_7920613	NC_021161.1	Ca_Kabuli_Chr02	7920613	TT	GG	GG	INTRON	101509466	lysM domain receptor-like kinase 3
SNP_7984_A_7922668	NC_021161.1	Ca_Kabuli_Chr02	7922668	CC	GG	GG	INTERGENIC		
SNP_7985_A_7922974	NC_021161.1	Ca_Kabuli_Chr02	7922974	AA	TT	TT	URR	101509466	lysM domain receptor-like kinase 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_7986_A_7922988	NC_021161.1	Ca_Kabuli_Chr02	7922988	CC	TT	TT	URR	101509466	lysM domain receptor-like kinase 3
SNP_7987_A_7923512	NC_021161.1	Ca_Kabuli_Chr02	7923512	TT	CC	CC	URR	101509466	lysM domain receptor-like kinase 3
SNP_7988_A_7925819	NC_021161.1	Ca_Kabuli_Chr02	7925819	AA	GG	GG	INTERGENIC		
SNP_7989_A_7929005	NC_021161.1	Ca_Kabuli_Chr02	7929005	CC	TT	TT	INTERGENIC		
SNP_7990_A_7929010	NC_021161.1	Ca_Kabuli_Chr02	7929010	TT	CC	CC	INTERGENIC		
SNP_7991_A_7931910	NC_021161.1	Ca_Kabuli_Chr02	7931910	GG	TT	TT	INTERGENIC		
SNP_7992_A_7932072	NC_021161.1	Ca_Kabuli_Chr02	7932072	TT	CC	CC	INTERGENIC		
SNP_7993_A_7932116	NC_021161.1	Ca_Kabuli_Chr02	7932116	CC	TT	TT	INTERGENIC		
SNP_7994_A_7932126	NC_021161.1	Ca_Kabuli_Chr02	7932126	TT	AA	AA	INTERGENIC		
SNP_7995_A_7932405	NC_021161.1	Ca_Kabuli_Chr02	7932405	AA	GG	GG	INTERGENIC		
SNP_7996_A_7932626	NC_021161.1	Ca_Kabuli_Chr02	7932626	GG	AA	AA	INTERGENIC		
SNP_7997_A_7932774	NC_021161.1	Ca_Kabuli_Chr02	7932774	GG	AA	AA	INTERGENIC		
SNP_7998_A_7933219	NC_021161.1	Ca_Kabuli_Chr02	7933219	GG	AA	AA	INTERGENIC		
SNP_7999_A_7933221	NC_021161.1	Ca_Kabuli_Chr02	7933221	AA	TT	TT	INTERGENIC		
SNP_8000_A_7933588	NC_021161.1	Ca_Kabuli_Chr02	7933588	TT	AA	AA	INTERGENIC		
SNP_8001_A_7933888	NC_021161.1	Ca_Kabuli_Chr02	7933888	CC	TT	TT	INTERGENIC		
SNP_8003_A_7933957	NC_021161.1	Ca_Kabuli_Chr02	7933957	GG	AA	AA	INTERGENIC		
SNP_8004_A_7933983	NC_021161.1	Ca_Kabuli_Chr02	7933983	AA	TT	TT	INTERGENIC		
SNP_8005_A_7934238	NC_021161.1	Ca_Kabuli_Chr02	7934238	CC	AA	AA	INTERGENIC		
SNP_8006_A_7936071	NC_021161.1	Ca_Kabuli_Chr02	7936071	GG	AA	AA	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8007_A_7936286	NC_021161.1	Ca_Kabuli_Chr02	7936286	CC	GG	GG	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8008_A_7936395	NC_021161.1	Ca_Kabuli_Chr02	7936395	TT	CC	CC	INTRON	101489241	tryptophan aminotransferase-related protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8009_A_7936399	NC_021161.1	Ca_Kabuli_Chr02	7936399	CC	AA	AA	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8010_A_7936402	NC_021161.1	Ca_Kabuli_Chr02	7936402	AA	GG	GG	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8011_A_7936438	NC_021161.1	Ca_Kabuli_Chr02	7936438	AA	GG	GG	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8012_A_7936481	NC_021161.1	Ca_Kabuli_Chr02	7936481	CC	TT	TT	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8013_A_7936493	NC_021161.1	Ca_Kabuli_Chr02	7936493	CC	TT	TT	INTRON	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8014_A_7937328	NC_021161.1	Ca_Kabuli_Chr02	7937328	AA	GG	GG	NON_SYNONYMOUS_CODING	101489241	tryptophan aminotransferase-related protein 1-like
SNP_8016_A_7947469	NC_021161.1	Ca_Kabuli_Chr02	7947469	TT	CC	CC	INTRON	101510107	uncharacterized LOC101510107
SNP_8017_A_7948681	NC_021161.1	Ca_Kabuli_Chr02	7948681	AA	GG	GG	INTRON	101510107	uncharacterized LOC101510107
SNP_8018_A_7948722	NC_021161.1	Ca_Kabuli_Chr02	7948722	TT	CC	CC	INTRON	101510107	uncharacterized LOC101510107
SNP_8019_A_7948735	NC_021161.1	Ca_Kabuli_Chr02	7948735	AA	GG	GG	INTRON	101510107	uncharacterized LOC101510107
SNP_8020_A_7948747	NC_021161.1	Ca_Kabuli_Chr02	7948747	TT	GG	GG	INTRON	101510107	uncharacterized LOC101510107
SNP_8021_A_7965248	NC_021161.1	Ca_Kabuli_Chr02	7965248	TT	AA	AA	INTERGENIC		
SNP_8022_A_7970383	NC_021161.1	Ca_Kabuli_Chr02	7970383	CC	TT	TT	DRR	101510432	uncharacterized LOC101510432
SNP_8023_A_7972947	NC_021161.1	Ca_Kabuli_Chr02	7972947	GG	AA	AA	INTRON	101510432	uncharacterized LOC101510432
SNP_8024_A_7985112	NC_021161.1	Ca_Kabuli_Chr02	7985112	AA	TT	TT	INTERGENIC		
SNP_8025_A_8005074	NC_021161.1	Ca_Kabuli_Chr02	8005074	TT	CC	CC	INTERGENIC		
SNP_8026_A_8005076	NC_021161.1	Ca_Kabuli_Chr02	8005076	GG	AA	AA	INTERGENIC		
SNP_8027_A_8005445	NC_021161.1	Ca_Kabuli_Chr02	8005445	AA	TT	TT	INTERGENIC		
SNP_8028_A_8005487	NC_021161.1	Ca_Kabuli_Chr02	8005487	GG	AA	AA	INTERGENIC		
SNP_8029_A_8005500	NC_021161.1	Ca_Kabuli_Chr02	8005500	AA	GG	GG	INTERGENIC		
SNP_8030_A_8005534	NC_021161.1	Ca_Kabuli_Chr02	8005534	GG	AA	AA	INTERGENIC		
SNP_8031_A_8005544	NC_021161.1	Ca_Kabuli_Chr02	8005544	AA	GG	GG	INTERGENIC		

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SNP_8032_A_8005614	NC_021161.1	Ca_Kabuli_Chr02	8005614	TT	AA	AA	INTERGENIC			
SNP_8033_A_8005624	NC_021161.1	Ca_Kabuli_Chr02	8005624	TT	CC	CC	INTERGENIC			
SNP_8034_A_8005637	NC_021161.1	Ca_Kabuli_Chr02	8005637	AA	CC	CC	INTERGENIC			
SNP_8035_A_8005661	NC_021161.1	Ca_Kabuli_Chr02	8005661	AA	GG	GG	INTERGENIC			
SNP_8036_A_8005704	NC_021161.1	Ca_Kabuli_Chr02	8005704	AA	CC	CC	INTERGENIC			
SNP_8037_A_8005747	NC_021161.1	Ca_Kabuli_Chr02	8005747	AA	GG	GG	INTERGENIC			
SNP_8038_A_8006030	NC_021161.1	Ca_Kabuli_Chr02	8006030	TT	CC	CC	INTERGENIC			
SNP_8039_A_8006201	NC_021161.1	Ca_Kabuli_Chr02	8006201	AA	GG	GG	INTERGENIC			
SNP_8040_A_8046116	NC_021161.1	Ca_Kabuli_Chr02	8046116	CC	TT	TT	INTERGENIC			
SNP_8041_A_8163129	NC_021161.1	Ca_Kabuli_Chr02	8163129	CC	AA	AA	INTERGENIC			
SNP_8042_A_8163190	NC_021161.1	Ca_Kabuli_Chr02	8163190	TT	CC	CC	INTERGENIC			
SNP_8043_A_8163210	NC_021161.1	Ca_Kabuli_Chr02	8163210	GG	AA	AA	INTERGENIC			
SNP_8044_A_8163246	NC_021161.1	Ca_Kabuli_Chr02	8163246	CC	TT	TT	INTERGENIC			
SNP_8046_A_8215634	NC_021161.1	Ca_Kabuli_Chr02	8215634	TT	AA	AA	INTERGENIC			
SNP_8047_A_8215635	NC_021161.1	Ca_Kabuli_Chr02	8215635	TT	AA	AA	INTERGENIC			
SNP_8048_A_8228432	NC_021161.1	Ca_Kabuli_Chr02	8228432	CC	TT	TT	INTERGENIC			
SNP_8049_A_8228471	NC_021161.1	Ca_Kabuli_Chr02	8228471	AA	GG	GG	INTERGENIC			
SNP_8050_A_8228505	NC_021161.1	Ca_Kabuli_Chr02	8228505	CC	TT	TT	INTERGENIC			
SNP_8051_A_8228561	NC_021161.1	Ca_Kabuli_Chr02	8228561	GG	AA	AA	INTERGENIC			
SNP_8052_A_8324933	NC_021161.1	Ca_Kabuli_Chr02	8324933	AA	GG	GG	DRR	101495607	polygalacturonase At1g48100-like	
SNP_8055_A_8420051	NC_021161.1	Ca_Kabuli_Chr02	8420051	GG	AA	AA	INTERGENIC			
SNP_8057_A_8420560	NC_021161.1	Ca_Kabuli_Chr02	8420560	AA	CC	CC	INTERGENIC			

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SNP_8058_A_8420671	NC_021161.1	Ca_Kabuli_Chr02	8420671	TT	AA	AA	INTERGENIC		
SNP_8059_A_8425858	NC_021161.1	Ca_Kabuli_Chr02	8425858	AA	TT	TT	INTRON	101499637	Unknown function
SNP_8060_A_8425870	NC_021161.1	Ca_Kabuli_Chr02	8425870	TT	AA	AA	INTRON	101499637	Unknown function
SNP_8061_A_8425871	NC_021161.1	Ca_Kabuli_Chr02	8425871	TT	CC	CC	INTRON	101499637	Unknown function
SNP_8062_A_8434653	NC_021161.1	Ca_Kabuli_Chr02	8434653	AA	TT	TT	URR	101499940	Unknown function
SNP_8063_A_8462481	NC_021161.1	Ca_Kabuli_Chr02	8462481	CC	GG	GG	INTRON	101500596	uncharacterized LOC101500596
SNP_8064_A_8462487	NC_021161.1	Ca_Kabuli_Chr02	8462487	TT	CC	CC	INTRON	101500596	uncharacterized LOC101500596
SNP_8065_A_8478740	NC_021161.1	Ca_Kabuli_Chr02	8478740	AA	CC	CC	INTERGENIC		
SNP_8067_A_8478860	NC_021161.1	Ca_Kabuli_Chr02	8478860	GG	CC	CC	INTERGENIC		
SNP_8068_A_8478862	NC_021161.1	Ca_Kabuli_Chr02	8478862	GG	TT	TT	INTERGENIC		
SNP_8070_A_8478939	NC_021161.1	Ca_Kabuli_Chr02	8478939	CC	AA	AA	INTERGENIC		
SNP_8071_A_8479011	NC_021161.1	Ca_Kabuli_Chr02	8479011	GG	AA	AA	INTERGENIC		
SNP_8072_A_8479012	NC_021161.1	Ca_Kabuli_Chr02	8479012	TT	AA	AA	INTERGENIC		
SNP_8073_A_8479119	NC_021161.1	Ca_Kabuli_Chr02	8479119	TT	AA	AA	INTERGENIC		
SNP_8074_A_8479141	NC_021161.1	Ca_Kabuli_Chr02	8479141	TT	AA	AA	INTERGENIC		
SNP_8075_A_8479455	NC_021161.1	Ca_Kabuli_Chr02	8479455	CC	TT	TT	INTERGENIC		
SNP_8076_A_8479579	NC_021161.1	Ca_Kabuli_Chr02	8479579	CC	TT	TT	INTERGENIC		
SNP_8077_A_8479616	NC_021161.1	Ca_Kabuli_Chr02	8479616	GG	AA	AA	INTERGENIC		
SNP_8078_A_8479622	NC_021161.1	Ca_Kabuli_Chr02	8479622	GG	CC	CC	INTERGENIC		
SNP_8079_A_8479643	NC_021161.1	Ca_Kabuli_Chr02	8479643	AA	GG	GG	INTERGENIC		
SNP_8080_A_8479662	NC_021161.1	Ca_Kabuli_Chr02	8479662	GG	AA	AA	INTERGENIC		
SNP_8081_A_8479675	NC_021161.1	Ca_Kabuli_Chr02	8479675	GG	AA	AA	INTERGENIC		

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SNP_8082_A_8479746	NC_021161.1	Ca_Kabuli_Chr02	8479746	AA	GG	GG	INTERGENIC			
SNP_8083_A_8479768	NC_021161.1	Ca_Kabuli_Chr02	8479768	GG	AA	AA	INTERGENIC			
SNP_8084_A_8479795	NC_021161.1	Ca_Kabuli_Chr02	8479795	AA	GG	GG	INTERGENIC			
SNP_8085_A_8479829	NC_021161.1	Ca_Kabuli_Chr02	8479829	TT	CC	CC	INTERGENIC			
SNP_8086_A_8479895	NC_021161.1	Ca_Kabuli_Chr02	8479895	AA	TT	TT	INTERGENIC			
SNP_8087_A_8479927	NC_021161.1	Ca_Kabuli_Chr02	8479927	TT	CC	CC	INTERGENIC			
SNP_8088_A_8483614	NC_021161.1	Ca_Kabuli_Chr02	8483614	TT	AA	AA	INTERGENIC			
SNP_8089_A_8483642	NC_021161.1	Ca_Kabuli_Chr02	8483642	GG	CC	CC	INTERGENIC			
SNP_8090_A_8483645	NC_021161.1	Ca_Kabuli_Chr02	8483645	AA	GG	GG	INTERGENIC			
SNP_8091_A_8483648	NC_021161.1	Ca_Kabuli_Chr02	8483648	GG	CC	CC	INTERGENIC			
SNP_8092_A_8495119	NC_021161.1	Ca_Kabuli_Chr02	8495119	GG	AA	AA	INTERGENIC			
SNP_8093_A_8506866	NC_021161.1	Ca_Kabuli_Chr02	8506866	GG	AA	AA	INTERGENIC			
SNP_8094_A_8553269	NC_021161.1	Ca_Kabuli_Chr02	8553269	CC	TT	TT	INTERGENIC			
SNP_8095_A_8565046	NC_021161.1	Ca_Kabuli_Chr02	8565046	TT	CC	CC	INTERGENIC			
SNP_8096_A_8664225	NC_021161.1	Ca_Kabuli_Chr02	8664225	TT	GG	GG	INTERGENIC			
SNP_8097_A_8699947	NC_021161.1	Ca_Kabuli_Chr02	8699947	AA	TT	TT	URR	101505728	uncharacterized LOC101505728	
SNP_8099_A_8723907	NC_021161.1	Ca_Kabuli_Chr02	8723907	GG	CC	CC	INTRON	101506366	AP-1 complex subunit gamma-2-like	
SNP_8100_A_8723944	NC_021161.1	Ca_Kabuli_Chr02	8723944	TT	CC	CC	INTRON	101506366	AP-1 complex subunit gamma-2-like	
SNP_8101_A_8724174	NC_021161.1	Ca_Kabuli_Chr02	8724174	AA	GG	GG	INTRON	101506366	AP-1 complex subunit gamma-2-like	
SNP_8104_A_8843031	NC_021161.1	Ca_Kabuli_Chr02	8843031	CC	GG	GG	URR	101507769	WAT1-related protein At3g28050-like	
SNP_8107_A_9312311	NC_021161.1	Ca_Kabuli_Chr02	9312311	AA	GG	GG	INTERGENIC			
SNP_8108_A_9343456	NC_021161.1	Ca_Kabuli_Chr02	9343456	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8109_A_9360125	NC_021161.1	Ca_Kabuli_Chr02	9360125	AA	GG	GG	INTERGENIC			
SNP_8110_A_9373186	NC_021161.1	Ca_Kabuli_Chr02	9373186	AA	GG	GG	INTERGENIC			
SNP_8111_A_9373188	NC_021161.1	Ca_Kabuli_Chr02	9373188	AA	CC	CC	INTERGENIC			
SNP_8112_A_9389837	NC_021161.1	Ca_Kabuli_Chr02	9389837	TT	AA	AA	INTERGENIC			
SNP_8113_A_9401911	NC_021161.1	Ca_Kabuli_Chr02	9401911	CC	GG	GG	INTERGENIC			
SNP_8114_A_9408298	NC_021161.1	Ca_Kabuli_Chr02	9408298	TT	CC	CC	INTERGENIC			
SNP_8116_A_9411578	NC_021161.1	Ca_Kabuli_Chr02	9411578	GG	AA	AA	INTERGENIC			
SNP_8119_A_9494121	NC_021161.1	Ca_Kabuli_Chr02	9494121	AA	GG	GG	INTERGENIC			
SNP_8120_A_9494137	NC_021161.1	Ca_Kabuli_Chr02	9494137	TT	GG	GG	INTERGENIC			
SNP_8121_A_9494217	NC_021161.1	Ca_Kabuli_Chr02	9494217	CC	TT	TT	INTERGENIC			
SNP_8122_A_9494277	NC_021161.1	Ca_Kabuli_Chr02	9494277	AA	GG	GG	INTERGENIC			
SNP_8123_A_9494297	NC_021161.1	Ca_Kabuli_Chr02	9494297	GG	AA	AA	INTERGENIC			
SNP_8124_A_9494348	NC_021161.1	Ca_Kabuli_Chr02	9494348	AA	CC	CC	INTERGENIC			
SNP_8125_A_9494377	NC_021161.1	Ca_Kabuli_Chr02	9494377	TT	CC	CC	INTERGENIC			
SNP_8126_A_9494399	NC_021161.1	Ca_Kabuli_Chr02	9494399	CC	GG	GG	INTERGENIC			
SNP_8127_A_9494402	NC_021161.1	Ca_Kabuli_Chr02	9494402	CC	AA	AA	INTERGENIC			
SNP_8128_A_9498620	NC_021161.1	Ca_Kabuli_Chr02	9498620	TT	CC	CC	DRR	101490118	uncharacterized LOC101490118	
SNP_8129_A_9498827	NC_021161.1	Ca_Kabuli_Chr02	9498827	TT	CC	CC	DRR	101490118	uncharacterized LOC101490118	
SNP_8130_A_9498863	NC_021161.1	Ca_Kabuli_Chr02	9498863	TT	AA	AA	DRR	101490118	uncharacterized LOC101490118	
SNP_8131_A_9498915	NC_021161.1	Ca_Kabuli_Chr02	9498915	TT	CC	CC	DRR	101490118	uncharacterized LOC101490118	
SNP_8132_A_9498963	NC_021161.1	Ca_Kabuli_Chr02	9498963	GG	AA	AA	DRR	101490118	uncharacterized LOC101490118	
SNP_8133_A_9498966	NC_021161.1	Ca_Kabuli_Chr02	9498966	AA	GG	GG	DRR	101490118	uncharacterized LOC101490118	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8134_A_9499135	NC_021161.1	Ca_Kabuli_Chr02	9499135	TT	AA	AA	DRR	101490118	uncharacterized LOC101490118
SNP_8135_A_9499244	NC_021161.1	Ca_Kabuli_Chr02	9499244	AA	GG	GG	URR	101491932	uncharacterized LOC101491932
SNP_8136_A_9500194	NC_021161.1	Ca_Kabuli_Chr02	9500194	AA	CC	CC	NON_SYNONYMOUS_CODING	id30839	Unknown function
SNP_8138_A_9500251	NC_021161.1	Ca_Kabuli_Chr02	9500251	TT	CC	CC	NON_SYNONYMOUS_CODING	id30839	Unknown function
SNP_8139_A_9599697	NC_021161.1	Ca_Kabuli_Chr02	9599697	CC	TT	TT	INTERGENIC		
SNP_8141_A_9600785	NC_021161.1	Ca_Kabuli_Chr02	9600785	AA	GG	GG	INTERGENIC		
SNP_8142_A_9600789	NC_021161.1	Ca_Kabuli_Chr02	9600789	AA	GG	GG	INTERGENIC		
SNP_8143_A_9605674	NC_021161.1	Ca_Kabuli_Chr02	9605674	TT	CC	CC	INTERGENIC		
SNP_8144_A_9605675	NC_021161.1	Ca_Kabuli_Chr02	9605675	GG	TT	TT	INTERGENIC		
SNP_8145_A_9612949	NC_021161.1	Ca_Kabuli_Chr02	9612949	GG	AA	AA	INTERGENIC		
SNP_8146_A_9612958	NC_021161.1	Ca_Kabuli_Chr02	9612958	AA	CC	CC	INTERGENIC		
SNP_8147_A_9612976	NC_021161.1	Ca_Kabuli_Chr02	9612976	TT	CC	CC	INTERGENIC		
SNP_8148_A_9613046	NC_021161.1	Ca_Kabuli_Chr02	9613046	AA	GG	GG	INTERGENIC		
SNP_8149_A_9613070	NC_021161.1	Ca_Kabuli_Chr02	9613070	TT	CC	CC	INTERGENIC		
SNP_8150_A_9613077	NC_021161.1	Ca_Kabuli_Chr02	9613077	TT	CC	CC	INTERGENIC		
SNP_8151_A_9613101	NC_021161.1	Ca_Kabuli_Chr02	9613101	GG	AA	AA	INTERGENIC		
SNP_8152_A_9613228	NC_021161.1	Ca_Kabuli_Chr02	9613228	TT	CC	CC	INTERGENIC		
SNP_8153_A_9613235	NC_021161.1	Ca_Kabuli_Chr02	9613235	AA	GG	GG	INTERGENIC		
SNP_8154_A_9613251	NC_021161.1	Ca_Kabuli_Chr02	9613251	TT	GG	GG	INTERGENIC		
SNP_8155_A_9613259	NC_021161.1	Ca_Kabuli_Chr02	9613259	TT	CC	CC	INTERGENIC		
SNP_8156_A_9613266	NC_021161.1	Ca_Kabuli_Chr02	9613266	CC	TT	TT	INTERGENIC		
SNP_8157_A_9613284	NC_021161.1	Ca_Kabuli_Chr02	9613284	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8158_A_9613343	NC_021161.1	Ca_Kabuli_Chr02	9613343	AA	GG	GG	INTERGENIC		
SNP_8159_A_9613360	NC_021161.1	Ca_Kabuli_Chr02	9613360	TT	CC	CC	INTERGENIC		
SNP_8160_A_9613372	NC_021161.1	Ca_Kabuli_Chr02	9613372	AA	GG	GG	INTERGENIC		
SNP_8161_A_9614779	NC_021161.1	Ca_Kabuli_Chr02	9614779	CC	TT	TT	INTERGENIC		
SNP_8162_A_9615125	NC_021161.1	Ca_Kabuli_Chr02	9615125	AA	TT	TT	INTERGENIC		
SNP_8163_A_9615136	NC_021161.1	Ca_Kabuli_Chr02	9615136	CC	GG	GG	INTERGENIC		
SNP_8164_A_9615137	NC_021161.1	Ca_Kabuli_Chr02	9615137	AA	TT	TT	INTERGENIC		
SNP_8165_A_9615150	NC_021161.1	Ca_Kabuli_Chr02	9615150	TT	CC	CC	INTERGENIC		
SNP_8166_A_9615155	NC_021161.1	Ca_Kabuli_Chr02	9615155	AA	CC	CC	INTERGENIC		
SNP_8167_A_9615167	NC_021161.1	Ca_Kabuli_Chr02	9615167	TT	CC	CC	INTERGENIC		
SNP_8168_A_9616545	NC_021161.1	Ca_Kabuli_Chr02	9616545	AA	GG	GG	INTERGENIC		
SNP_8169_A_9647556	NC_021161.1	Ca_Kabuli_Chr02	9647556	GG	AA	AA	INTRON	101495609	uncharacterized LOC101495609
SNP_8170_A_9647583	NC_021161.1	Ca_Kabuli_Chr02	9647583	AA	TT	TT	INTRON	101495609	uncharacterized LOC101495609
SNP_8171_A_9647585	NC_021161.1	Ca_Kabuli_Chr02	9647585	TT	AA	AA	INTRON	101495609	uncharacterized LOC101495609
SNP_8172_A_9647622	NC_021161.1	Ca_Kabuli_Chr02	9647622	TT	CC	CC	NON_SYNONYMOUS_CODING	101495609	uncharacterized LOC101495609
SNP_8173_A_9647627	NC_021161.1	Ca_Kabuli_Chr02	9647627	CC	AA	AA	NON_SYNONYMOUS_CODING	101495609	uncharacterized LOC101495609
SNP_8174_A_9647633	NC_021161.1	Ca_Kabuli_Chr02	9647633	GG	TT	TT	SYNONYMOUS_CODING	101495609	uncharacterized LOC101495609
SNP_8175_A_9647944	NC_021161.1	Ca_Kabuli_Chr02	9647944	TT	GG	GG	NON_SYNONYMOUS_CODING	101495609	uncharacterized LOC101495609
SNP_8177_A_9689649	NC_021161.1	Ca_Kabuli_Chr02	9689649	TT	CC	CC	URR	101493694	paired amphipathic helix protein Sin3-like 4
SNP_8178_A_9693977	NC_021161.1	Ca_Kabuli_Chr02	9693977	GG	AA	AA	INTERGENIC		
SNP_8179_A_9707865	NC_021161.1	Ca_Kabuli_Chr02	9707865	GG	AA	AA	INTERGENIC		
SNP_8180_A_9737183	NC_021161.1	Ca_Kabuli_Chr02	9737183	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8181_A_9776583	NC_021161.1	Ca_Kabuli_Chr02	9776583	TT	CC	CC	INTERGENIC			
SNP_8182_A_9776726	NC_021161.1	Ca_Kabuli_Chr02	9776726	GG	TT	TT	INTERGENIC			
SNP_8183_A_9779395	NC_021161.1	Ca_Kabuli_Chr02	9779395	CC	TT	TT	INTERGENIC			
SNP_8184_A_9782825	NC_021161.1	Ca_Kabuli_Chr02	9782825	AA	GG	GG	INTERGENIC			
SNP_8185_A_9881706	NC_021161.1	Ca_Kabuli_Chr02	9881706	TT	CC	CC	INTERGENIC			
SNP_8187_A_9898941	NC_021161.1	Ca_Kabuli_Chr02	9898941	TT	GG	GG	URR	101498677		ras-related protein Rab7
SNP_8188_A_9929836	NC_021161.1	Ca_Kabuli_Chr02	9929836	AA	CC	CC	INTERGENIC			
SNP_8189_A_9929845	NC_021161.1	Ca_Kabuli_Chr02	9929845	AA	GG	GG	INTERGENIC			
SNP_8190_A_9931474	NC_021161.1	Ca_Kabuli_Chr02	9931474	GG	AA	AA	INTERGENIC			
SNP_8191_A_9935370	NC_021161.1	Ca_Kabuli_Chr02	9935370	TT	CC	CC	INTERGENIC			
SNP_8192_A_9979301	NC_021161.1	Ca_Kabuli_Chr02	9979301	AA	CC	CC	INTERGENIC			
SNP_8193_A_9979302	NC_021161.1	Ca_Kabuli_Chr02	9979302	AA	CC	CC	INTERGENIC			
SNP_8194_A_10013817	NC_021161.1	Ca_Kabuli_Chr02	10013817	TT	CC	CC	URR	101503678		cytochrome P450 82A1-like
SNP_8197_A_10073896	NC_021161.1	Ca_Kabuli_Chr02	10073896	TT	CC	CC	INTERGENIC			
SNP_8198_A_10104782	NC_021161.1	Ca_Kabuli_Chr02	10104782	AA	GG	GG	URR	101507143		nucleolar complex protein 2 homolog
SNP_8199_A_10112872	NC_021161.1	Ca_Kabuli_Chr02	10112872	TT	CC	CC	INTERGENIC			
SNP_8200_A_10113145	NC_021161.1	Ca_Kabuli_Chr02	10113145	CC	TT	TT	INTERGENIC			
SNP_8201_A_10116758	NC_021161.1	Ca_Kabuli_Chr02	10116758	AA	TT	TT	INTERGENIC			
SNP_8202_A_10138199	NC_021161.1	Ca_Kabuli_Chr02	10138199	CC	AA	AA	INTERGENIC			
SNP_8203_A_10175093	NC_021161.1	Ca_Kabuli_Chr02	10175093	CC	TT	TT	INTERGENIC			
SNP_8205_A_10192125	NC_021161.1	Ca_Kabuli_Chr02	10192125	GG	TT	TT	INTERGENIC			
SNP_8206_A_10202073	NC_021161.1	Ca_Kabuli_Chr02	10202073	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8207_A_10240226	NC_021161.1	Ca_Kabuli_Chr02	10240226	GG	TT	TT	INTERGENIC		
SNP_8208_A_10362062	NC_021161.1	Ca_Kabuli_Chr02	10362062	AA	GG	TT	INTERGENIC		
SNP_8209_A_10362088	NC_021161.1	Ca_Kabuli_Chr02	10362088	TT	CC	CC	INTERGENIC		
SNP_8210_A_10362144	NC_021161.1	Ca_Kabuli_Chr02	10362144	AA	GG	GG	INTERGENIC		
SNP_8211_A_10362505	NC_021161.1	Ca_Kabuli_Chr02	10362505	TT	GG	GG	URR	101513982	shootin-1
SNP_8212_A_10395809	NC_021161.1	Ca_Kabuli_Chr02	10395809	AA	TT	TT	DRR	101496483	basic 7S globulin 2-like
SNP_8213_A_10395813	NC_021161.1	Ca_Kabuli_Chr02	10395813	TT	AA	AA	DRR	101496483	basic 7S globulin 2-like
SNP_8214_A_10432638	NC_021161.1	Ca_Kabuli_Chr02	10432638	CC	TT	TT	DRR	101488245	glutathione S-transferase U17-like
SNP_8215_A_10491320	NC_021161.1	Ca_Kabuli_Chr02	10491320	CC	TT	TT	INTERGENIC		
SNP_8217_A_10501769	NC_021161.1	Ca_Kabuli_Chr02	10501769	AA	GG	GG	INTERGENIC		
SNP_8218_A_10540543	NC_021161.1	Ca_Kabuli_Chr02	10540543	TT	CC	CC	INTERGENIC		
SNP_8219_A_10540607	NC_021161.1	Ca_Kabuli_Chr02	10540607	CC	GG	GG	INTERGENIC		
SNP_8220_A_10540612	NC_021161.1	Ca_Kabuli_Chr02	10540612	TT	CC	CC	INTERGENIC		
SNP_8221_A_10540622	NC_021161.1	Ca_Kabuli_Chr02	10540622	GG	CC	CC	INTERGENIC		
SNP_8222_A_10540822	NC_021161.1	Ca_Kabuli_Chr02	10540822	TT	CC	CC	INTERGENIC		
SNP_8223_A_10541017	NC_021161.1	Ca_Kabuli_Chr02	10541017	TT	GG	GG	INTERGENIC		
SNP_8224_A_10541135	NC_021161.1	Ca_Kabuli_Chr02	10541135	AA	TT	TT	INTERGENIC		
SNP_8225_A_10541144	NC_021161.1	Ca_Kabuli_Chr02	10541144	AA	GG	GG	INTERGENIC		
SNP_8226_A_10541157	NC_021161.1	Ca_Kabuli_Chr02	10541157	AA	GG	GG	INTERGENIC		
SNP_8227_A_10541166	NC_021161.1	Ca_Kabuli_Chr02	10541166	AA	CC	CC	INTERGENIC		
SNP_8228_A_10541193	NC_021161.1	Ca_Kabuli_Chr02	10541193	AA	GG	GG	INTERGENIC		
SNP_8229_A_10541203	NC_021161.1	Ca_Kabuli_Chr02	10541203	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8230_A_10541535	NC_021161.1	Ca_Kabuli_Chr02	10541535	CC	GG	GG	INTERGENIC		
SNP_8231_A_10544398	NC_021161.1	Ca_Kabuli_Chr02	10544398	AA	TT	TT	INTERGENIC		
SNP_8232_A_10544629	NC_021161.1	Ca_Kabuli_Chr02	10544629	GG	AA	AA	INTERGENIC		
SNP_8233_A_10544789	NC_021161.1	Ca_Kabuli_Chr02	10544789	TT	AA	GG	INTERGENIC		
SNP_8234_A_10598618	NC_021161.1	Ca_Kabuli_Chr02	10598618	CC	TT	TT	URR	101491183	thioredoxin H2-like
SNP_8235_A_10599713	NC_021161.1	Ca_Kabuli_Chr02	10599713	AA	CC	CC	INTERGENIC		
SNP_8236_A_10599714	NC_021161.1	Ca_Kabuli_Chr02	10599714	AA	TT	TT	INTERGENIC		
SNP_8237_A_10664264	NC_021161.1	Ca_Kabuli_Chr02	10664264	GG	CC	CC	INTERGENIC		
SNP_8238_A_10664624	NC_021161.1	Ca_Kabuli_Chr02	10664624	TT	AA	AA	DRR	101497809	uncharacterized LOC101497809
SNP_8239_A_10664667	NC_021161.1	Ca_Kabuli_Chr02	10664667	AA	GG	GG	DRR	101497809	uncharacterized LOC101497809
SNP_8240_A_10714151	NC_021161.1	Ca_Kabuli_Chr02	10714151	TT	CC	CC	INTERGENIC		
SNP_8241_A_10719924	NC_021161.1	Ca_Kabuli_Chr02	10719924	TT	CC	CC	INTERGENIC		
SNP_8242_A_10719935	NC_021161.1	Ca_Kabuli_Chr02	10719935	GG	AA	AA	INTERGENIC		
SNP_8243_A_10759163	NC_021161.1	Ca_Kabuli_Chr02	10759163	AA	TT	TT	URR	101492936	ultraviolet-B receptor UVR8
SNP_8244_A_10766997	NC_021161.1	Ca_Kabuli_Chr02	10766997	CC	AA	AA	INTERGENIC		
SNP_8245_A_10767213	NC_021161.1	Ca_Kabuli_Chr02	10767213	AA	GG	GG	INTERGENIC		
SNP_8246_A_10767437	NC_021161.1	Ca_Kabuli_Chr02	10767437	CC	TT	TT	INTERGENIC		
SNP_8247_A_10767446	NC_021161.1	Ca_Kabuli_Chr02	10767446	GG	AA	AA	INTERGENIC		
SNP_8248_A_10767447	NC_021161.1	Ca_Kabuli_Chr02	10767447	GG	AA	AA	INTERGENIC		
SNP_8249_A_10767568	NC_021161.1	Ca_Kabuli_Chr02	10767568	GG	AA	AA	INTERGENIC		
SNP_8250_A_10767569	NC_021161.1	Ca_Kabuli_Chr02	10767569	AA	GG	GG	INTERGENIC		
SNP_8251_A_10767573	NC_021161.1	Ca_Kabuli_Chr02	10767573	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8252_A_10767614	NC_021161.1	Ca_Kabuli_Chr02	10767614	TT	CC	CC	INTERGENIC			
SNP_8253_A_10767631	NC_021161.1	Ca_Kabuli_Chr02	10767631	TT	AA	AA	INTERGENIC			
SNP_8254_A_10777352	NC_021161.1	Ca_Kabuli_Chr02	10777352	TT	CC	CC	INTERGENIC			
SNP_8255_A_10777357	NC_021161.1	Ca_Kabuli_Chr02	10777357	TT	CC	CC	INTERGENIC			
SNP_8256_A_10777359	NC_021161.1	Ca_Kabuli_Chr02	10777359	GG	AA	AA	INTERGENIC			
SNP_8257_A_10777409	NC_021161.1	Ca_Kabuli_Chr02	10777409	GG	AA	AA	INTERGENIC			
SNP_8258_A_10777423	NC_021161.1	Ca_Kabuli_Chr02	10777423	TT	GG	GG	INTERGENIC			
SNP_8259_A_10777636	NC_021161.1	Ca_Kabuli_Chr02	10777636	TT	CC	CC	INTERGENIC			
SNP_8260_A_10777643	NC_021161.1	Ca_Kabuli_Chr02	10777643	GG	TT	TT	INTERGENIC			
SNP_8261_A_10778495	NC_021161.1	Ca_Kabuli_Chr02	10778495	TT	CC	CC	INTERGENIC			
SNP_8262_A_10778986	NC_021161.1	Ca_Kabuli_Chr02	10778986	CC	TT	TT	INTERGENIC			
SNP_8263_A_10779028	NC_021161.1	Ca_Kabuli_Chr02	10779028	CC	TT	TT	INTERGENIC			
SNP_8264_A_10779054	NC_021161.1	Ca_Kabuli_Chr02	10779054	TT	CC	CC	INTERGENIC			
SNP_8265_A_10779060	NC_021161.1	Ca_Kabuli_Chr02	10779060	GG	AA	AA	INTERGENIC			
SNP_8266_A_10779069	NC_021161.1	Ca_Kabuli_Chr02	10779069	TT	CC	CC	INTERGENIC			
SNP_8268_A_10779156	NC_021161.1	Ca_Kabuli_Chr02	10779156	TT	CC	CC	INTERGENIC			
SNP_8269_A_10779159	NC_021161.1	Ca_Kabuli_Chr02	10779159	GG	AA	AA	INTERGENIC			
SNP_8270_A_10779270	NC_021161.1	Ca_Kabuli_Chr02	10779270	GG	TT	TT	INTERGENIC			
SNP_8271_A_10779304	NC_021161.1	Ca_Kabuli_Chr02	10779304	TT	AA	AA	INTERGENIC			
SNP_8272_A_10779312	NC_021161.1	Ca_Kabuli_Chr02	10779312	TT	CC	CC	INTERGENIC			
SNP_8273_A_10779338	NC_021161.1	Ca_Kabuli_Chr02	10779338	CC	TT	TT	INTERGENIC			
SNP_8274_A_10779374	NC_021161.1	Ca_Kabuli_Chr02	10779374	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8275_A_10779384	NC_021161.1	Ca_Kabuli_Chr02	10779384	TT	CC	CC	INTERGENIC		
SNP_8276_A_10779528	NC_021161.1	Ca_Kabuli_Chr02	10779528	CC	TT	TT	INTERGENIC		
SNP_8277_A_10779600	NC_021161.1	Ca_Kabuli_Chr02	10779600	GG	CC	CC	INTERGENIC		
SNP_8278_A_10780048	NC_021161.1	Ca_Kabuli_Chr02	10780048	TT	AA	AA	INTERGENIC		
SNP_8279_A_10789842	NC_021161.1	Ca_Kabuli_Chr02	10789842	TT	CC	CC	INTERGENIC		
SNP_8280_A_10789973	NC_021161.1	Ca_Kabuli_Chr02	10789973	AA	GG	GG	INTERGENIC		
SNP_8281_A_10790042	NC_021161.1	Ca_Kabuli_Chr02	10790042	AA	GG	GG	INTERGENIC		
SNP_8282_A_10794596	NC_021161.1	Ca_Kabuli_Chr02	10794596	GG	AA	AA	INTERGENIC		
SNP_8283_A_10794634	NC_021161.1	Ca_Kabuli_Chr02	10794634	AA	TT	TT	INTERGENIC		
SNP_8284_A_10794943	NC_021161.1	Ca_Kabuli_Chr02	10794943	AA	TT	TT	INTERGENIC		
SNP_8285_A_10795042	NC_021161.1	Ca_Kabuli_Chr02	10795042	TT	CC	CC	INTERGENIC		
SNP_8286_A_10795817	NC_021161.1	Ca_Kabuli_Chr02	10795817	CC	TT	TT	INTERGENIC		
SNP_8287_A_10795820	NC_021161.1	Ca_Kabuli_Chr02	10795820	AA	GG	GG	INTERGENIC		
SNP_8288_A_10796699	NC_021161.1	Ca_Kabuli_Chr02	10796699	GG	AA	AA	INTERGENIC		
SNP_8289_A_10809971	NC_021161.1	Ca_Kabuli_Chr02	10809971	AA	GG	GG	INTERGENIC		
SNP_8290_A_10823190	NC_021161.1	Ca_Kabuli_Chr02	10823190	AA	CC	CC	NON_SYNONYMOUS_CODING	101498803	uncharacterized LOC101498803
SNP_8291_A_10834714	NC_021161.1	Ca_Kabuli_Chr02	10834714	CC	TT	TT	INTERGENIC		
SNP_8292_A_10834756	NC_021161.1	Ca_Kabuli_Chr02	10834756	TT	CC	CC	INTERGENIC		
SNP_8293_A_10834792	NC_021161.1	Ca_Kabuli_Chr02	10834792	TT	CC	CC	INTERGENIC		
SNP_8294_A_10834801	NC_021161.1	Ca_Kabuli_Chr02	10834801	GG	AA	AA	INTERGENIC		
SNP_8295_A_10834837	NC_021161.1	Ca_Kabuli_Chr02	10834837	CC	TT	TT	INTERGENIC		
SNP_8296_A_10834846	NC_021161.1	Ca_Kabuli_Chr02	10834846	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8297_A_10834867	NC_021161.1	Ca_Kabuli_Chr02	10834867	CC	TT	TT	INTERGENIC			
SNP_8298_A_10834879	NC_021161.1	Ca_Kabuli_Chr02	10834879	TT	CC	CC	INTERGENIC			
SNP_8299_A_10834882	NC_021161.1	Ca_Kabuli_Chr02	10834882	GG	AA	AA	INTERGENIC			
SNP_8300_A_10834891	NC_021161.1	Ca_Kabuli_Chr02	10834891	TT	CC	CC	INTERGENIC			
SNP_8301_A_10834957	NC_021161.1	Ca_Kabuli_Chr02	10834957	TT	CC	CC	INTERGENIC			
SNP_8302_A_10835017	NC_021161.1	Ca_Kabuli_Chr02	10835017	AA	GG	GG	INTERGENIC			
SNP_8303_A_10835065	NC_021161.1	Ca_Kabuli_Chr02	10835065	TT	CC	CC	INTERGENIC			
SNP_8304_A_10835113	NC_021161.1	Ca_Kabuli_Chr02	10835113	GG	AA	AA	INTERGENIC			
SNP_8305_A_10835167	NC_021161.1	Ca_Kabuli_Chr02	10835167	TT	CC	CC	INTERGENIC			
SNP_8306_A_10835173	NC_021161.1	Ca_Kabuli_Chr02	10835173	CC	TT	TT	INTERGENIC			
SNP_8307_A_10835179	NC_021161.1	Ca_Kabuli_Chr02	10835179	AA	GG	GG	INTERGENIC			
SNP_8308_A_10840879	NC_021161.1	Ca_Kabuli_Chr02	10840879	AA	GG	GG	INTERGENIC			
SNP_8309_A_10840939	NC_021161.1	Ca_Kabuli_Chr02	10840939	AA	GG	GG	INTERGENIC			
SNP_8310_A_10840950	NC_021161.1	Ca_Kabuli_Chr02	10840950	GG	AA	AA	INTERGENIC			
SNP_8311_A_10850021	NC_021161.1	Ca_Kabuli_Chr02	10850021	AA	CC	CC	INTERGENIC			
SNP_8312_A_10851085	NC_021161.1	Ca_Kabuli_Chr02	10851085	GG	AA	AA	INTERGENIC			
SNP_8313_A_10851271	NC_021161.1	Ca_Kabuli_Chr02	10851271	GG	AA	AA	INTERGENIC			
SNP_8315_A_10878855	NC_021161.1	Ca_Kabuli_Chr02	10878855	AA	GG	GG	INTERGENIC			
SNP_8316_A_10878921	NC_021161.1	Ca_Kabuli_Chr02	10878921	AA	GG	GG	INTERGENIC			
SNP_8317_A_10880648	NC_021161.1	Ca_Kabuli_Chr02	10880648	TT	CC	CC	INTERGENIC			
SNP_8318_A_10893974	NC_021161.1	Ca_Kabuli_Chr02	10893974	TT	CC	CC	INTERGENIC			
SNP_8319_A_10894291	NC_021161.1	Ca_Kabuli_Chr02	10894291	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8320_A_10894299	NC_021161.1	Ca_Kabuli_Chr02	10894299	TT	CC	CC	INTERGENIC			
SNP_8321_A_10894374	NC_021161.1	Ca_Kabuli_Chr02	10894374	TT	CC	CC	INTERGENIC			
SNP_8322_A_10896405	NC_021161.1	Ca_Kabuli_Chr02	10896405	GG	AA	AA	INTERGENIC			
SNP_8323_A_10896412	NC_021161.1	Ca_Kabuli_Chr02	10896412	CC	TT	TT	INTERGENIC			
SNP_8324_A_10904384	NC_021161.1	Ca_Kabuli_Chr02	10904384	CC	GG	GG	INTERGENIC			
SNP_8325_A_10905352	NC_021161.1	Ca_Kabuli_Chr02	10905352	GG	AA	AA	INTERGENIC			
SNP_8328_A_11010144	NC_021161.1	Ca_Kabuli_Chr02	11010144	CC	AA	AA	INTERGENIC			
SNP_8329_A_11010146	NC_021161.1	Ca_Kabuli_Chr02	11010146	GG	AA	AA	INTERGENIC			
SNP_8330_A_11010275	NC_021161.1	Ca_Kabuli_Chr02	11010275	TT	AA	AA	INTERGENIC			
SNP_8331_A_11031144	NC_021161.1	Ca_Kabuli_Chr02	11031144	GG	TT	TT	INTERGENIC			
SNP_8332_A_11031221	NC_021161.1	Ca_Kabuli_Chr02	11031221	AA	CC	CC	INTERGENIC			
SNP_8333_A_11055805	NC_021161.1	Ca_Kabuli_Chr02	11055805	AA	TT	TT	INTERGENIC			
SNP_8334_A_11055863	NC_021161.1	Ca_Kabuli_Chr02	11055863	GG	AA	AA	INTERGENIC			
SNP_8335_A_11056104	NC_021161.1	Ca_Kabuli_Chr02	11056104	AA	GG	GG	INTERGENIC			
SNP_8336_A_11056114	NC_021161.1	Ca_Kabuli_Chr02	11056114	TT	CC	CC	INTERGENIC			
SNP_8337_A_11056205	NC_021161.1	Ca_Kabuli_Chr02	11056205	AA	GG	GG	INTERGENIC			
SNP_8338_A_11056210	NC_021161.1	Ca_Kabuli_Chr02	11056210	TT	AA	AA	INTERGENIC			
SNP_8339_A_11056215	NC_021161.1	Ca_Kabuli_Chr02	11056215	AA	GG	GG	INTERGENIC			
SNP_8340_A_11056299	NC_021161.1	Ca_Kabuli_Chr02	11056299	AA	GG	GG	INTERGENIC			
SNP_8341_A_11056309	NC_021161.1	Ca_Kabuli_Chr02	11056309	AA	GG	GG	INTERGENIC			
SNP_8342_A_11056315	NC_021161.1	Ca_Kabuli_Chr02	11056315	TT	CC	CC	INTERGENIC			
SNP_8343_A_11056356	NC_021161.1	Ca_Kabuli_Chr02	11056356	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8344_A_11056375	NC_021161.1	Ca_Kabuli_Chr02	11056375	GG	AA	AA	INTERGENIC			
SNP_8345_A_11061813	NC_021161.1	Ca_Kabuli_Chr02	11061813	TT	AA	AA	INTERGENIC			
SNP_8346_A_11063567	NC_021161.1	Ca_Kabuli_Chr02	11063567	CC	AA	AA	INTERGENIC			
SNP_8347_A_11063568	NC_021161.1	Ca_Kabuli_Chr02	11063568	TT	AA	AA	INTERGENIC			
SNP_8348_A_11063613	NC_021161.1	Ca_Kabuli_Chr02	11063613	TT	CC	CC	INTERGENIC			
SNP_8349_A_11063643	NC_021161.1	Ca_Kabuli_Chr02	11063643	CC	AA	AA	INTERGENIC			
SNP_8350_A_11106050	NC_021161.1	Ca_Kabuli_Chr02	11106050	TT	AA	AA	INTERGENIC			
SNP_8351_A_11109122	NC_021161.1	Ca_Kabuli_Chr02	11109122	GG	AA	AA	INTERGENIC			
SNP_8352_A_11128224	NC_021161.1	Ca_Kabuli_Chr02	11128224	TT	CC	CC	INTERGENIC			
SNP_8353_A_11128228	NC_021161.1	Ca_Kabuli_Chr02	11128228	TT	AA	AA	INTERGENIC			
SNP_8354_A_11144035	NC_021161.1	Ca_Kabuli_Chr02	11144035	AA	GG	GG	INTERGENIC			
SNP_8355_A_11144068	NC_021161.1	Ca_Kabuli_Chr02	11144068	TT	CC	CC	INTERGENIC			
SNP_8356_A_11144093	NC_021161.1	Ca_Kabuli_Chr02	11144093	GG	AA	AA	INTERGENIC			
SNP_8357_A_11144114	NC_021161.1	Ca_Kabuli_Chr02	11144114	TT	CC	CC	INTERGENIC			
SNP_8358_A_11144153	NC_021161.1	Ca_Kabuli_Chr02	11144153	TT	CC	CC	INTERGENIC			
SNP_8359_A_11144181	NC_021161.1	Ca_Kabuli_Chr02	11144181	AA	GG	GG	INTERGENIC			
SNP_8360_A_11144339	NC_021161.1	Ca_Kabuli_Chr02	11144339	AA	GG	GG	INTERGENIC			
SNP_8361_A_11195496	NC_021161.1	Ca_Kabuli_Chr02	11195496	CC	TT	TT	INTERGENIC			
SNP_8363_A_11239855	NC_021161.1	Ca_Kabuli_Chr02	11239855	AA	GG	GG	INTERGENIC			
SNP_8364_A_11240139	NC_021161.1	Ca_Kabuli_Chr02	11240139	GG	TT	TT	INTERGENIC			
SNP_8365_A_11240143	NC_021161.1	Ca_Kabuli_Chr02	11240143	GG	AA	AA	INTERGENIC			
SNP_8367_A_11242396	NC_021161.1	Ca_Kabuli_Chr02	11242396	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8368_A_11246336	NC_021161.1	Ca_Kabuli_Chr02	11246336	TT	GG	GG	INTERGENIC		
SNP_8369_A_11246358	NC_021161.1	Ca_Kabuli_Chr02	11246358	AA	GG	GG	INTERGENIC		
SNP_8370_A_11246385	NC_021161.1	Ca_Kabuli_Chr02	11246385	CC	TT	TT	INTERGENIC		
SNP_8371_A_11246576	NC_021161.1	Ca_Kabuli_Chr02	11246576	TT	CC	CC	INTERGENIC		
SNP_8372_A_11246612	NC_021161.1	Ca_Kabuli_Chr02	11246612	AA	GG	GG	INTERGENIC		
SNP_8373_A_11246915	NC_021161.1	Ca_Kabuli_Chr02	11246915	TT	GG	GG	INTERGENIC		
SNP_8374_A_11363905	NC_021161.1	Ca_Kabuli_Chr02	11363905	GG	AA	AA	INTERGENIC		
SNP_8375_A_11398170	NC_021161.1	Ca_Kabuli_Chr02	11398170	CC	TT	TT	INTERGENIC		
SNP_8376_A_11507000	NC_021161.1	Ca_Kabuli_Chr02	11507000	CC	TT	TT	INTERGENIC		
SNP_8377_A_11535694	NC_021161.1	Ca_Kabuli_Chr02	11535694	GG	TT	TT	INTERGENIC		
SNP_8378_A_11536047	NC_021161.1	Ca_Kabuli_Chr02	11536047	TT	CC	CC	INTERGENIC		
SNP_8379_A_11539468	NC_021161.1	Ca_Kabuli_Chr02	11539468	CC	AA	AA	INTERGENIC		
SNP_8380_A_11611169	NC_021161.1	Ca_Kabuli_Chr02	11611169	TT	CC	CC	URR	101508608	transcriptional activator Myb-like
SNP_8383_A_11671192	NC_021161.1	Ca_Kabuli_Chr02	11671192	CC	TT	TT	INTERGENIC		
SNP_8384_A_11671404	NC_021161.1	Ca_Kabuli_Chr02	11671404	TT	CC	CC	INTERGENIC		
SNP_8385_A_11671632	NC_021161.1	Ca_Kabuli_Chr02	11671632	GG	AA	AA	INTERGENIC		
SNP_8386_A_11671642	NC_021161.1	Ca_Kabuli_Chr02	11671642	AA	GG	GG	INTERGENIC		
SNP_8387_A_11686699	NC_021161.1	Ca_Kabuli_Chr02	11686699	GG	AA	AA	URR	101509999	binding partner of ACD11.1
SNP_8389_A_11722912	NC_021161.1	Ca_Kabuli_Chr02	11722912	TT	AA	AA	INTERGENIC		
SNP_8390_A_11726208	NC_021161.1	Ca_Kabuli_Chr02	11726208	CC	AA	AA	INTRON	101492937	uncharacterized LOC101492937
SNP_8391_A_11726460	NC_021161.1	Ca_Kabuli_Chr02	11726460	AA	TT	TT	INTRON	101492937	uncharacterized LOC101492937
SNP_8392_A_11728372	NC_021161.1	Ca_Kabuli_Chr02	11728372	CC	TT	TT	URR	101492937	uncharacterized LOC101492937

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8393_A_11728460	NC_021161.1	Ca_Kabuli_Chr02	11728460	TT	GG	GG	URR	101492937	uncharacterized LOC101492937
SNP_8394_A_11769132	NC_021161.1	Ca_Kabuli_Chr02	11769132	CC	TT	TT	INTERGENIC		
SNP_8395_A_11783988	NC_021161.1	Ca_Kabuli_Chr02	11783988	AA	CC	CC	INTERGENIC		
SNP_8396_A_11786744	NC_021161.1	Ca_Kabuli_Chr02	11786744	TT	AA	AA	INTERGENIC		
SNP_8397_A_11787137	NC_021161.1	Ca_Kabuli_Chr02	11787137	TT	GG	GG	INTERGENIC		
SNP_8398_A_11787198	NC_021161.1	Ca_Kabuli_Chr02	11787198	AA	GG	GG	INTERGENIC		
SNP_8399_A_11815119	NC_021161.1	Ca_Kabuli_Chr02	11815119	GG	AA	AA	INTERGENIC		
SNP_8400_A_11830657	NC_021161.1	Ca_Kabuli_Chr02	11830657	CC	TT	TT	INTERGENIC		
SNP_8401_A_11896134	NC_021161.1	Ca_Kabuli_Chr02	11896134	TT	AA	AA	INTERGENIC		
SNP_8402_A_11897400	NC_021161.1	Ca_Kabuli_Chr02	11897400	TT	CC	CC	INTERGENIC		
SNP_8403_A_11940829	NC_021161.1	Ca_Kabuli_Chr02	11940829	TT	AA	AA	INTERGENIC		
SNP_8404_A_11950101	NC_021161.1	Ca_Kabuli_Chr02	11950101	GG	AA	AA	INTERGENIC		
SNP_8405_A_12040143	NC_021161.1	Ca_Kabuli_Chr02	12040143	GG	TT	TT	INTERGENIC		
SNP_8406_A_12040168	NC_021161.1	Ca_Kabuli_Chr02	12040168	TT	AA	AA	INTERGENIC		
SNP_8408_A_12040288	NC_021161.1	Ca_Kabuli_Chr02	12040288	CC	TT	TT	INTERGENIC		
SNP_8409_A_12040331	NC_021161.1	Ca_Kabuli_Chr02	12040331	AA	GG	GG	INTERGENIC		
SNP_8410_A_12040406	NC_021161.1	Ca_Kabuli_Chr02	12040406	AA	TT	TT	INTERGENIC		
SNP_8411_A_12040465	NC_021161.1	Ca_Kabuli_Chr02	12040465	AA	TT	TT	INTERGENIC		
SNP_8412_A_12040471	NC_021161.1	Ca_Kabuli_Chr02	12040471	TT	AA	AA	INTERGENIC		
SNP_8413_A_12040480	NC_021161.1	Ca_Kabuli_Chr02	12040480	AA	TT	TT	INTERGENIC		
SNP_8414_A_12040488	NC_021161.1	Ca_Kabuli_Chr02	12040488	AA	TT	TT	INTERGENIC		
SNP_8416_A_12040578	NC_021161.1	Ca_Kabuli_Chr02	12040578	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8417_A_12040608	NC_021161.1	Ca_Kabuli_Chr02	12040608	AA	GG	GG	INTERGENIC			
SNP_8418_A_12040614	NC_021161.1	Ca_Kabuli_Chr02	12040614	CC	AA	AA	INTERGENIC			
SNP_8419_A_12041119	NC_021161.1	Ca_Kabuli_Chr02	12041119	TT	CC	CC	INTERGENIC			
SNP_8420_A_12041529	NC_021161.1	Ca_Kabuli_Chr02	12041529	GG	AA	AA	INTERGENIC			
SNP_8421_A_12041583	NC_021161.1	Ca_Kabuli_Chr02	12041583	TT	CC	CC	INTERGENIC			
SNP_8422_A_12041593	NC_021161.1	Ca_Kabuli_Chr02	12041593	CC	GG	GG	INTERGENIC			
SNP_8423_A_12041627	NC_021161.1	Ca_Kabuli_Chr02	12041627	TT	CC	CC	INTERGENIC			
SNP_8424_A_12041729	NC_021161.1	Ca_Kabuli_Chr02	12041729	GG	AA	AA	INTERGENIC			
SNP_8425_A_12041778	NC_021161.1	Ca_Kabuli_Chr02	12041778	CC	TT	TT	INTERGENIC			
SNP_8426_A_12041789	NC_021161.1	Ca_Kabuli_Chr02	12041789	CC	GG	GG	INTERGENIC			
SNP_8427_A_12041794	NC_021161.1	Ca_Kabuli_Chr02	12041794	CC	TT	TT	INTERGENIC			
SNP_8428_A_12041886	NC_021161.1	Ca_Kabuli_Chr02	12041886	CC	AA	AA	INTERGENIC			
SNP_8429_A_12041951	NC_021161.1	Ca_Kabuli_Chr02	12041951	TT	CC	CC	INTERGENIC			
SNP_8430_A_12042070	NC_021161.1	Ca_Kabuli_Chr02	12042070	TT	CC	CC	INTERGENIC			
SNP_8431_A_12042071	NC_021161.1	Ca_Kabuli_Chr02	12042071	CC	AA	AA	INTERGENIC			
SNP_8432_A_12048433	NC_021161.1	Ca_Kabuli_Chr02	12048433	TT	CC	CC	INTERGENIC			
SNP_8433_A_12048443	NC_021161.1	Ca_Kabuli_Chr02	12048443	GG	AA	AA	INTERGENIC			
SNP_8434_A_12048453	NC_021161.1	Ca_Kabuli_Chr02	12048453	TT	AA	AA	INTERGENIC			
SNP_8435_A_12048552	NC_021161.1	Ca_Kabuli_Chr02	12048552	TT	CC	CC	INTERGENIC			
SNP_8436_A_12048553	NC_021161.1	Ca_Kabuli_Chr02	12048553	CC	AA	AA	INTERGENIC			
SNP_8437_A_12048571	NC_021161.1	Ca_Kabuli_Chr02	12048571	CC	TT	TT	INTERGENIC			
SNP_8439_A_12048735	NC_021161.1	Ca_Kabuli_Chr02	12048735	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8440_A_12048736	NC_021161.1	Ca_Kabuli_Chr02	12048736	TT	AA	AA	INTERGENIC		
SNP_8441_A_12048759	NC_021161.1	Ca_Kabuli_Chr02	12048759	CC	TT	TT	INTERGENIC		
SNP_8442_A_12071720	NC_021161.1	Ca_Kabuli_Chr02	12071720	GG	AA	AA	INTERGENIC		
SNP_8443_A_12114602	NC_021161.1	Ca_Kabuli_Chr02	12114602	AA	GG	GG	INTERGENIC		
SNP_8444_A_12116765	NC_021161.1	Ca_Kabuli_Chr02	12116765	GG	AA	AA	INTERGENIC		
SNP_8445_A_12128653	NC_021161.1	Ca_Kabuli_Chr02	12128653	AA	GG	GG	INTERGENIC		
SNP_8446_A_12220454	NC_021161.1	Ca_Kabuli_Chr02	12220454	GG	TT	TT	INTRON	101509885	glutathione S-transferase U10-like
SNP_8447_A_12220529	NC_021161.1	Ca_Kabuli_Chr02	12220529	AA	GG	GG	INTRON	101509885	glutathione S-transferase U10-like
SNP_8448_A_12220537	NC_021161.1	Ca_Kabuli_Chr02	12220537	TT	GG	GG	INTRON	101509885	glutathione S-transferase U10-like
SNP_8449_A_12220549	NC_021161.1	Ca_Kabuli_Chr02	12220549	AA	GG	GG	INTRON	101509885	glutathione S-transferase U10-like
SNP_8450_A_12221306	NC_021161.1	Ca_Kabuli_Chr02	12221306	TT	CC	CC	INTRON	101509885	glutathione S-transferase U10-like
SNP_8451_A_12261576	NC_021161.1	Ca_Kabuli_Chr02	12261576	CC	TT	TT	INTERGENIC		
SNP_8452_A_12303588	NC_021161.1	Ca_Kabuli_Chr02	12303588	CC	TT	TT	INTERGENIC		
SNP_8454_A_12310529	NC_021161.1	Ca_Kabuli_Chr02	12310529	AA	GG	GG	INTERGENIC		
SNP_8455_A_12321229	NC_021161.1	Ca_Kabuli_Chr02	12321229	TT	CC	CC	INTRON	101497674	acetolactate synthase small subunit 2, chloroplastic-like
SNP_8456_A_12321261	NC_021161.1	Ca_Kabuli_Chr02	12321261	CC	TT	TT	INTRON	101497674	acetolactate synthase small subunit 2, chloroplastic-like
SNP_8457_A_12326658	NC_021161.1	Ca_Kabuli_Chr02	12326658	AA	GG	GG	DRR	101510202	sugar transport protein 14-like
SNP_8458_A_12326757	NC_021161.1	Ca_Kabuli_Chr02	12326757	CC	TT	TT	DRR	101510202	sugar transport protein 14-like
SNP_8459_A_12326927	NC_021161.1	Ca_Kabuli_Chr02	12326927	AA	GG	GG	DRR	101510202	sugar transport protein 14-like
SNP_8460_A_12326986	NC_021161.1	Ca_Kabuli_Chr02	12326986	GG	AA	AA	DRR	101510202	sugar transport protein 14-like
SNP_8461_A_12327040	NC_021161.1	Ca_Kabuli_Chr02	12327040	AA	GG	GG	DRR	101510202	sugar transport protein 14-like
SNP_8462_A_12333162	NC_021161.1	Ca_Kabuli_Chr02	12333162	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8463_A_12333163	NC_021161.1	Ca_Kabuli_Chr02	12333163	TT	CC	CC	INTERGENIC			
SNP_8464_A_12333259	NC_021161.1	Ca_Kabuli_Chr02	12333259	TT	GG	GG	INTERGENIC			
SNP_8466_A_12380121	NC_021161.1	Ca_Kabuli_Chr02	12380121	TT	CC	CC	INTERGENIC			
SNP_8467_A_12380198	NC_021161.1	Ca_Kabuli_Chr02	12380198	TT	CC	CC	INTERGENIC			
SNP_8468_A_12380209	NC_021161.1	Ca_Kabuli_Chr02	12380209	TT	CC	CC	INTERGENIC			
SNP_8470_A_12380263	NC_021161.1	Ca_Kabuli_Chr02	12380263	AA	GG	GG	INTERGENIC			
SNP_8471_A_12380293	NC_021161.1	Ca_Kabuli_Chr02	12380293	GG	AA	AA	INTERGENIC			
SNP_8472_A_12380295	NC_021161.1	Ca_Kabuli_Chr02	12380295	GG	CC	CC	INTERGENIC			
SNP_8473_A_12380303	NC_021161.1	Ca_Kabuli_Chr02	12380303	CC	TT	TT	INTERGENIC			
SNP_8474_A_12380323	NC_021161.1	Ca_Kabuli_Chr02	12380323	TT	CC	CC	INTERGENIC			
SNP_8475_A_12380339	NC_021161.1	Ca_Kabuli_Chr02	12380339	AA	GG	GG	INTERGENIC			
SNP_8476_A_12380340	NC_021161.1	Ca_Kabuli_Chr02	12380340	CC	TT	TT	INTERGENIC			
SNP_8477_A_12380341	NC_021161.1	Ca_Kabuli_Chr02	12380341	AA	CC	CC	INTERGENIC			
SNP_8478_A_12384534	NC_021161.1	Ca_Kabuli_Chr02	12384534	AA	TT	TT	INTERGENIC			
SNP_8479_A_12384683	NC_021161.1	Ca_Kabuli_Chr02	12384683	GG	AA	AA	INTERGENIC			
SNP_8480_A_12435222	NC_021161.1	Ca_Kabuli_Chr02	12435222	AA	CC	CC	INTERGENIC			
SNP_8481_A_12469533	NC_021161.1	Ca_Kabuli_Chr02	12469533	CC	GG	GG	URR	101499836	beta-1,3-galactosyltransferase 15	
SNP_8482_A_12469564	NC_021161.1	Ca_Kabuli_Chr02	12469564	TT	CC	CC	URR	101499836	beta-1,3-galactosyltransferase 15	
SNP_8483_A_12469783	NC_021161.1	Ca_Kabuli_Chr02	12469783	CC	AA	AA	URR	101499836	beta-1,3-galactosyltransferase 15	
SNP_8484_A_12473336	NC_021161.1	Ca_Kabuli_Chr02	12473336	AA	CC	CC	INTERGENIC			
SNP_8485_A_12473362	NC_021161.1	Ca_Kabuli_Chr02	12473362	TT	AA	AA	INTERGENIC			
SNP_8486_A_12473364	NC_021161.1	Ca_Kabuli_Chr02	12473364	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8487_A_12473365	NC_021161.1	Ca_Kabuli_Chr02	12473365	CC	GG	GG	INTERGENIC		
SNP_8488_A_12496953	NC_021161.1	Ca_Kabuli_Chr02	12496953	TT	CC	CC	INTERGENIC		
SNP_8490_A_12581699	NC_021161.1	Ca_Kabuli_Chr02	12581699	AA	GG	GG	URR	101504118	uncharacterized LOC101504118
SNP_8491_A_12581718	NC_021161.1	Ca_Kabuli_Chr02	12581718	CC	AA	AA	URR	101504118	uncharacterized LOC101504118
SNP_8492_A_12581742	NC_021161.1	Ca_Kabuli_Chr02	12581742	AA	GG	GG	URR	101504118	uncharacterized LOC101504118
SNP_8493_A_12581754	NC_021161.1	Ca_Kabuli_Chr02	12581754	GG	AA	AA	URR	101504118	uncharacterized LOC101504118
SNP_8494_A_12585027	NC_021161.1	Ca_Kabuli_Chr02	12585027	CC	TT	TT	INTERGENIC		
SNP_8495_A_12629079	NC_021161.1	Ca_Kabuli_Chr02	12629079	TT	AA	AA	DRR	101504973	expansin-A15-like
SNP_8496_A_12680957	NC_021161.1	Ca_Kabuli_Chr02	12680957	TT	GG	GG	INTERGENIC		
SNP_8497_A_12689842	NC_021161.1	Ca_Kabuli_Chr02	12689842	AA	TT	TT	INTERGENIC		
SNP_8498_A_12689901	NC_021161.1	Ca_Kabuli_Chr02	12689901	CC	TT	TT	INTERGENIC		
SNP_8499_A_12689932	NC_021161.1	Ca_Kabuli_Chr02	12689932	GG	AA	AA	INTERGENIC		
SNP_8500_A_12690161	NC_021161.1	Ca_Kabuli_Chr02	12690161	AA	GG	GG	INTERGENIC		
SNP_8501_A_12690235	NC_021161.1	Ca_Kabuli_Chr02	12690235	TT	CC	CC	INTERGENIC		
SNP_8503_A_12785232	NC_021161.1	Ca_Kabuli_Chr02	12785232	GG	AA	AA	INTERGENIC		
SNP_8504_A_12785408	NC_021161.1	Ca_Kabuli_Chr02	12785408	AA	TT	TT	INTERGENIC		
SNP_8505_A_12785412	NC_021161.1	Ca_Kabuli_Chr02	12785412	GG	AA	AA	INTERGENIC		
SNP_8506_A_12785471	NC_021161.1	Ca_Kabuli_Chr02	12785471	TT	CC	CC	INTERGENIC		
SNP_8507_A_12785480	NC_021161.1	Ca_Kabuli_Chr02	12785480	AA	GG	GG	INTERGENIC		
SNP_8508_A_12785520	NC_021161.1	Ca_Kabuli_Chr02	12785520	GG	AA	AA	INTERGENIC		
SNP_8509_A_12785522	NC_021161.1	Ca_Kabuli_Chr02	12785522	GG	AA	AA	INTERGENIC		
SNP_8510_A_12837488	NC_021161.1	Ca_Kabuli_Chr02	12837488	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8511_A_12919750	NC_021161.1	Ca_Kabuli_Chr02	12919750	AA	CC	CC	INTERGENIC			
SNP_8512_A_12931829	NC_021161.1	Ca_Kabuli_Chr02	12931829	AA	CC	CC	INTERGENIC			
SNP_8513_A_12931949	NC_021161.1	Ca_Kabuli_Chr02	12931949	AA	TT	TT	INTERGENIC			
SNP_8514_A_12932069	NC_021161.1	Ca_Kabuli_Chr02	12932069	AA	GG	GG	INTERGENIC			
SNP_8515_A_12932254	NC_021161.1	Ca_Kabuli_Chr02	12932254	TT	AA	AA	INTERGENIC			
SNP_8516_A_12932440	NC_021161.1	Ca_Kabuli_Chr02	12932440	GG	TT	TT	INTERGENIC			
SNP_8517_A_12932512	NC_021161.1	Ca_Kabuli_Chr02	12932512	GG	AA	AA	INTERGENIC			
SNP_8518_A_12932557	NC_021161.1	Ca_Kabuli_Chr02	12932557	TT	AA	AA	INTERGENIC			
SNP_8519_A_12932646	NC_021161.1	Ca_Kabuli_Chr02	12932646	AA	CC	CC	INTERGENIC			
SNP_8520_A_12932706	NC_021161.1	Ca_Kabuli_Chr02	12932706	AA	GG	GG	INTERGENIC			
SNP_8521_A_12932725	NC_021161.1	Ca_Kabuli_Chr02	12932725	CC	TT	TT	INTERGENIC			
SNP_8522_A_12932783	NC_021161.1	Ca_Kabuli_Chr02	12932783	AA	GG	GG	INTERGENIC			
SNP_8523_A_12932795	NC_021161.1	Ca_Kabuli_Chr02	12932795	AA	GG	GG	INTERGENIC			
SNP_8524_A_12932856	NC_021161.1	Ca_Kabuli_Chr02	12932856	AA	GG	GG	INTERGENIC			
SNP_8525_A_12932903	NC_021161.1	Ca_Kabuli_Chr02	12932903	GG	CC	CC	INTERGENIC			
SNP_8526_A_12933069	NC_021161.1	Ca_Kabuli_Chr02	12933069	GG	AA	AA	INTERGENIC			
SNP_8527_A_12933101	NC_021161.1	Ca_Kabuli_Chr02	12933101	CC	TT	TT	INTERGENIC			
SNP_8529_A_12933135	NC_021161.1	Ca_Kabuli_Chr02	12933135	GG	AA	AA	INTERGENIC			
SNP_8530_A_12933149	NC_021161.1	Ca_Kabuli_Chr02	12933149	AA	GG	GG	INTERGENIC			
SNP_8531_A_12933198	NC_021161.1	Ca_Kabuli_Chr02	12933198	TT	CC	CC	INTERGENIC			
SNP_8532_A_12933215	NC_021161.1	Ca_Kabuli_Chr02	12933215	AA	TT	TT	INTERGENIC			
SNP_8533_A_12933258	NC_021161.1	Ca_Kabuli_Chr02	12933258	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8534_A_12933374	NC_021161.1	Ca_Kabuli_Chr02	12933374	CC	GG	GG	INTERGENIC			
SNP_8535_A_12933548	NC_021161.1	Ca_Kabuli_Chr02	12933548	AA	CC	CC	INTERGENIC			
SNP_8536_A_12933568	NC_021161.1	Ca_Kabuli_Chr02	12933568	CC	TT	TT	INTERGENIC			
SNP_8538_A_12933627	NC_021161.1	Ca_Kabuli_Chr02	12933627	AA	GG	GG	INTERGENIC			
SNP_8539_A_12933751	NC_021161.1	Ca_Kabuli_Chr02	12933751	AA	TT	TT	INTERGENIC			
SNP_8540_A_12933779	NC_021161.1	Ca_Kabuli_Chr02	12933779	CC	TT	TT	INTERGENIC			
SNP_8541_A_12933915	NC_021161.1	Ca_Kabuli_Chr02	12933915	CC	GG	GG	INTERGENIC			
SNP_8542_A_12934183	NC_021161.1	Ca_Kabuli_Chr02	12934183	TT	AA	AA	INTERGENIC			
SNP_8544_A_12934365	NC_021161.1	Ca_Kabuli_Chr02	12934365	AA	GG	GG	INTERGENIC			
SNP_8545_A_12934382	NC_021161.1	Ca_Kabuli_Chr02	12934382	AA	CC	CC	INTERGENIC			
SNP_8546_A_12934444	NC_021161.1	Ca_Kabuli_Chr02	12934444	TT	CC	CC	INTERGENIC			
SNP_8547_A_12934497	NC_021161.1	Ca_Kabuli_Chr02	12934497	GG	AA	AA	INTERGENIC			
SNP_8548_A_12934572	NC_021161.1	Ca_Kabuli_Chr02	12934572	TT	GG	GG	INTERGENIC			
SNP_8549_A_12934749	NC_021161.1	Ca_Kabuli_Chr02	12934749	TT	AA	AA	INTERGENIC			
SNP_8550_A_12934776	NC_021161.1	Ca_Kabuli_Chr02	12934776	AA	CC	CC	INTERGENIC			
SNP_8551_A_12935031	NC_021161.1	Ca_Kabuli_Chr02	12935031	GG	TT	TT	INTERGENIC			
SNP_8552_A_12935442	NC_021161.1	Ca_Kabuli_Chr02	12935442	TT	GG	GG	INTERGENIC			
SNP_8553_A_12935449	NC_021161.1	Ca_Kabuli_Chr02	12935449	CC	TT	TT	INTERGENIC			
SNP_8554_A_12935515	NC_021161.1	Ca_Kabuli_Chr02	12935515	GG	TT	TT	INTERGENIC			
SNP_8555_A_12935582	NC_021161.1	Ca_Kabuli_Chr02	12935582	CC	TT	TT	INTERGENIC			
SNP_8556_A_12935639	NC_021161.1	Ca_Kabuli_Chr02	12935639	AA	GG	GG	INTERGENIC			
SNP_8557_A_12935645	NC_021161.1	Ca_Kabuli_Chr02	12935645	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8558_A_12935664	NC_021161.1	Ca_Kabuli_Chr02	12935664	GG	AA	AA	INTERGENIC			
SNP_8559_A_12935805	NC_021161.1	Ca_Kabuli_Chr02	12935805	GG	AA	AA	INTERGENIC			
SNP_8560_A_12935932	NC_021161.1	Ca_Kabuli_Chr02	12935932	TT	GG	GG	INTERGENIC			
SNP_8561_A_12935948	NC_021161.1	Ca_Kabuli_Chr02	12935948	TT	CC	CC	INTERGENIC			
SNP_8562_A_12936060	NC_021161.1	Ca_Kabuli_Chr02	12936060	CC	TT	TT	INTERGENIC			
SNP_8563_A_12936096	NC_021161.1	Ca_Kabuli_Chr02	12936096	TT	AA	AA	INTERGENIC			
SNP_8564_A_12936329	NC_021161.1	Ca_Kabuli_Chr02	12936329	GG	TT	TT	INTERGENIC			
SNP_8565_A_12936542	NC_021161.1	Ca_Kabuli_Chr02	12936542	CC	TT	TT	INTERGENIC			
SNP_8566_A_12936559	NC_021161.1	Ca_Kabuli_Chr02	12936559	TT	AA	AA	INTERGENIC			
SNP_8567_A_12936657	NC_021161.1	Ca_Kabuli_Chr02	12936657	CC	TT	TT	INTERGENIC			
SNP_8568_A_12936658	NC_021161.1	Ca_Kabuli_Chr02	12936658	AA	GG	GG	INTERGENIC			
SNP_8569_A_12936662	NC_021161.1	Ca_Kabuli_Chr02	12936662	GG	AA	AA	INTERGENIC			
SNP_8570_A_12936741	NC_021161.1	Ca_Kabuli_Chr02	12936741	AA	GG	GG	INTERGENIC			
SNP_8571_A_12937028	NC_021161.1	Ca_Kabuli_Chr02	12937028	AA	GG	GG	INTERGENIC			
SNP_8572_A_12937051	NC_021161.1	Ca_Kabuli_Chr02	12937051	CC	TT	TT	INTERGENIC			
SNP_8573_A_12937059	NC_021161.1	Ca_Kabuli_Chr02	12937059	CC	AA	AA	INTERGENIC			
SNP_8574_A_12937070	NC_021161.1	Ca_Kabuli_Chr02	12937070	TT	AA	AA	INTERGENIC			
SNP_8575_A_12937071	NC_021161.1	Ca_Kabuli_Chr02	12937071	GG	AA	AA	INTERGENIC			
SNP_8576_A_12937177	NC_021161.1	Ca_Kabuli_Chr02	12937177	CC	TT	TT	INTERGENIC			
SNP_8577_A_12937180	NC_021161.1	Ca_Kabuli_Chr02	12937180	AA	TT	TT	INTERGENIC			
SNP_8578_A_12937185	NC_021161.1	Ca_Kabuli_Chr02	12937185	CC	TT	TT	INTERGENIC			
SNP_8579_A_12937265	NC_021161.1	Ca_Kabuli_Chr02	12937265	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8580_A_12937368	NC_021161.1	Ca_Kabuli_Chr02	12937368	AA	GG	GG	INTERGENIC			
SNP_8581_A_12937377	NC_021161.1	Ca_Kabuli_Chr02	12937377	TT	CC	CC	INTERGENIC			
SNP_8582_A_12937379	NC_021161.1	Ca_Kabuli_Chr02	12937379	AA	TT	TT	INTERGENIC			
SNP_8583_A_12937426	NC_021161.1	Ca_Kabuli_Chr02	12937426	CC	AA	AA	INTERGENIC			
SNP_8584_A_12937445	NC_021161.1	Ca_Kabuli_Chr02	12937445	CC	AA	AA	INTERGENIC			
SNP_8585_A_12937451	NC_021161.1	Ca_Kabuli_Chr02	12937451	CC	AA	AA	INTERGENIC			
SNP_8586_A_12937472	NC_021161.1	Ca_Kabuli_Chr02	12937472	CC	TT	TT	INTERGENIC			
SNP_8587_A_12937522	NC_021161.1	Ca_Kabuli_Chr02	12937522	TT	AA	AA	INTERGENIC			
SNP_8588_A_12937572	NC_021161.1	Ca_Kabuli_Chr02	12937572	AA	CC	CC	INTERGENIC			
SNP_8590_A_12937663	NC_021161.1	Ca_Kabuli_Chr02	12937663	AA	CC	CC	INTERGENIC			
SNP_8591_A_12937683	NC_021161.1	Ca_Kabuli_Chr02	12937683	CC	TT	TT	INTERGENIC			
SNP_8592_A_12937684	NC_021161.1	Ca_Kabuli_Chr02	12937684	TT	CC	CC	INTERGENIC			
SNP_8593_A_12937693	NC_021161.1	Ca_Kabuli_Chr02	12937693	CC	TT	TT	INTERGENIC			
SNP_8594_A_12937825	NC_021161.1	Ca_Kabuli_Chr02	12937825	AA	TT	TT	INTERGENIC			
SNP_8595_A_12937896	NC_021161.1	Ca_Kabuli_Chr02	12937896	AA	GG	GG	INTERGENIC			
SNP_8596_A_12937966	NC_021161.1	Ca_Kabuli_Chr02	12937966	TT	AA	AA	INTERGENIC			
SNP_8597_A_12938879	NC_021161.1	Ca_Kabuli_Chr02	12938879	TT	GG	GG	INTERGENIC			
SNP_8598_A_12939274	NC_021161.1	Ca_Kabuli_Chr02	12939274	GG	CC	CC	INTERGENIC			
SNP_8599_A_12939296	NC_021161.1	Ca_Kabuli_Chr02	12939296	CC	GG	GG	INTERGENIC			
SNP_8601_A_12939751	NC_021161.1	Ca_Kabuli_Chr02	12939751	AA	TT	TT	INTERGENIC			
SNP_8602_A_12940554	NC_021161.1	Ca_Kabuli_Chr02	12940554	GG	CC	CC	INTERGENIC			
SNP_8603_A_12940590	NC_021161.1	Ca_Kabuli_Chr02	12940590	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8604_A_12940634	NC_021161.1	Ca_Kabuli_Chr02	12940634	TT	AA	AA	INTERGENIC			
SNP_8605_A_12940666	NC_021161.1	Ca_Kabuli_Chr02	12940666	GG	AA	AA	INTERGENIC			
SNP_8606_A_12940667	NC_021161.1	Ca_Kabuli_Chr02	12940667	TT	CC	CC	INTERGENIC			
SNP_8607_A_12940985	NC_021161.1	Ca_Kabuli_Chr02	12940985	TT	CC	CC	INTERGENIC			
SNP_8608_A_12941032	NC_021161.1	Ca_Kabuli_Chr02	12941032	GG	AA	AA	INTERGENIC			
SNP_8609_A_12941052	NC_021161.1	Ca_Kabuli_Chr02	12941052	AA	GG	GG	INTERGENIC			
SNP_8610_A_12941108	NC_021161.1	Ca_Kabuli_Chr02	12941108	TT	AA	AA	INTERGENIC			
SNP_8611_A_12941162	NC_021161.1	Ca_Kabuli_Chr02	12941162	AA	GG	GG	INTERGENIC			
SNP_8613_A_12941376	NC_021161.1	Ca_Kabuli_Chr02	12941376	AA	CC	CC	INTERGENIC			
SNP_8614_A_12941452	NC_021161.1	Ca_Kabuli_Chr02	12941452	AA	TT	TT	INTERGENIC			
SNP_8615_A_12941535	NC_021161.1	Ca_Kabuli_Chr02	12941535	AA	GG	GG	INTERGENIC			
SNP_8616_A_12941537	NC_021161.1	Ca_Kabuli_Chr02	12941537	GG	CC	CC	INTERGENIC			
SNP_8617_A_12941742	NC_021161.1	Ca_Kabuli_Chr02	12941742	CC	AA	AA	INTERGENIC			
SNP_8619_A_12941838	NC_021161.1	Ca_Kabuli_Chr02	12941838	CC	TT	TT	INTERGENIC			
SNP_8620_A_12941843	NC_021161.1	Ca_Kabuli_Chr02	12941843	TT	CC	CC	INTERGENIC			
SNP_8621_A_12941877	NC_021161.1	Ca_Kabuli_Chr02	12941877	AA	CC	CC	INTERGENIC			
SNP_8622_A_12941902	NC_021161.1	Ca_Kabuli_Chr02	12941902	GG	AA	AA	INTERGENIC			
SNP_8623_A_12942072	NC_021161.1	Ca_Kabuli_Chr02	12942072	GG	TT	TT	INTERGENIC			
SNP_8624_A_12942158	NC_021161.1	Ca_Kabuli_Chr02	12942158	AA	GG	GG	INTERGENIC			
SNP_8625_A_12942218	NC_021161.1	Ca_Kabuli_Chr02	12942218	TT	GG	GG	INTERGENIC			
SNP_8626_A_12942223	NC_021161.1	Ca_Kabuli_Chr02	12942223	GG	AA	AA	INTERGENIC			
SNP_8627_A_12942224	NC_021161.1	Ca_Kabuli_Chr02	12942224	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8628_A_12942260	NC_021161.1	Ca_Kabuli_Chr02	12942260	AA	CC	CC	INTERGENIC			
SNP_8629_A_12942542	NC_021161.1	Ca_Kabuli_Chr02	12942542	GG	AA	AA	INTERGENIC			
SNP_8630_A_12942565	NC_021161.1	Ca_Kabuli_Chr02	12942565	GG	AA	AA	INTERGENIC			
SNP_8631_A_12947194	NC_021161.1	Ca_Kabuli_Chr02	12947194	AA	TT	TT	INTERGENIC			
SNP_8633_A_12948047	NC_021161.1	Ca_Kabuli_Chr02	12948047	CC	TT	TT	INTERGENIC			
SNP_8634_A_12948167	NC_021161.1	Ca_Kabuli_Chr02	12948167	AA	GG	GG	INTERGENIC			
SNP_8635_A_12948328	NC_021161.1	Ca_Kabuli_Chr02	12948328	GG	TT	TT	INTERGENIC			
SNP_8636_A_12948329	NC_021161.1	Ca_Kabuli_Chr02	12948329	TT	AA	AA	INTERGENIC			
SNP_8637_A_12948606	NC_021161.1	Ca_Kabuli_Chr02	12948606	CC	TT	TT	INTERGENIC			
SNP_8638_A_12948609	NC_021161.1	Ca_Kabuli_Chr02	12948609	CC	TT	TT	INTERGENIC			
SNP_8639_A_12949123	NC_021161.1	Ca_Kabuli_Chr02	12949123	AA	TT	TT	INTERGENIC			
SNP_8640_A_12949132	NC_021161.1	Ca_Kabuli_Chr02	12949132	GG	AA	AA	INTERGENIC			
SNP_8641_A_12949188	NC_021161.1	Ca_Kabuli_Chr02	12949188	GG	AA	AA	INTERGENIC			
SNP_8642_A_12949192	NC_021161.1	Ca_Kabuli_Chr02	12949192	GG	TT	TT	INTERGENIC			
SNP_8643_A_12949603	NC_021161.1	Ca_Kabuli_Chr02	12949603	CC	TT	TT	INTERGENIC			
SNP_8644_A_12949628	NC_021161.1	Ca_Kabuli_Chr02	12949628	CC	TT	TT	INTERGENIC			
SNP_8645_A_12949637	NC_021161.1	Ca_Kabuli_Chr02	12949637	CC	TT	TT	INTERGENIC			
SNP_8646_A_12949881	NC_021161.1	Ca_Kabuli_Chr02	12949881	GG	AA	AA	INTERGENIC			
SNP_8647_A_12950095	NC_021161.1	Ca_Kabuli_Chr02	12950095	CC	TT	TT	INTERGENIC			
SNP_8648_A_12950357	NC_021161.1	Ca_Kabuli_Chr02	12950357	TT	AA	AA	INTERGENIC			
SNP_8649_A_12950375	NC_021161.1	Ca_Kabuli_Chr02	12950375	AA	CC	CC	INTERGENIC			
SNP_8650_A_12951649	NC_021161.1	Ca_Kabuli_Chr02	12951649	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8651_A_12951955	NC_021161.1	Ca_Kabuli_Chr02	12951955	GG	AA	AA	INTERGENIC			
SNP_8652_A_12952122	NC_021161.1	Ca_Kabuli_Chr02	12952122	TT	AA	AA	INTERGENIC			
SNP_8653_A_12952300	NC_021161.1	Ca_Kabuli_Chr02	12952300	TT	GG	GG	INTERGENIC			
SNP_8654_A_12952375	NC_021161.1	Ca_Kabuli_Chr02	12952375	TT	CC	CC	INTERGENIC			
SNP_8655_A_12952438	NC_021161.1	Ca_Kabuli_Chr02	12952438	GG	AA	AA	INTERGENIC			
SNP_8657_A_12952924	NC_021161.1	Ca_Kabuli_Chr02	12952924	GG	AA	AA	INTERGENIC			
SNP_8659_A_12953136	NC_021161.1	Ca_Kabuli_Chr02	12953136	TT	CC	CC	INTERGENIC			
SNP_8660_A_12959961	NC_021161.1	Ca_Kabuli_Chr02	12959961	AA	GG	GG	INTERGENIC			
SNP_8661_A_12959975	NC_021161.1	Ca_Kabuli_Chr02	12959975	CC	AA	AA	INTERGENIC			
SNP_8662_A_12960179	NC_021161.1	Ca_Kabuli_Chr02	12960179	TT	AA	AA	INTERGENIC			
SNP_8663_A_12960197	NC_021161.1	Ca_Kabuli_Chr02	12960197	CC	TT	TT	INTERGENIC			
SNP_8664_A_12960530	NC_021161.1	Ca_Kabuli_Chr02	12960530	CC	GG	GG	INTERGENIC			
SNP_8665_A_12960568	NC_021161.1	Ca_Kabuli_Chr02	12960568	AA	GG	GG	INTERGENIC			
SNP_8666_A_12960947	NC_021161.1	Ca_Kabuli_Chr02	12960947	GG	CC	CC	INTERGENIC			
SNP_8667_A_12972950	NC_021161.1	Ca_Kabuli_Chr02	12972950	AA	CC	CC	INTERGENIC			
SNP_8668_A_12987750	NC_021161.1	Ca_Kabuli_Chr02	12987750	AA	GG	GG	INTERGENIC			
SNP_8669_A_12994069	NC_021161.1	Ca_Kabuli_Chr02	12994069	CC	AA	AA	INTERGENIC			
SNP_8670_A_12994214	NC_021161.1	Ca_Kabuli_Chr02	12994214	GG	AA	AA	INTERGENIC			
SNP_8671_A_12994250	NC_021161.1	Ca_Kabuli_Chr02	12994250	AA	TT	TT	INTERGENIC			
SNP_8672_A_12994277	NC_021161.1	Ca_Kabuli_Chr02	12994277	AA	GG	GG	INTERGENIC			
SNP_8673_A_12994278	NC_021161.1	Ca_Kabuli_Chr02	12994278	AA	CC	CC	INTERGENIC			
SNP_8674_A_13010933	NC_021161.1	Ca_Kabuli_Chr02	13010933	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8675_A_13021057	NC_021161.1	Ca_Kabuli_Chr02	13021057	AA	GG	GG	INTERGENIC			
SNP_8676_A_13021394	NC_021161.1	Ca_Kabuli_Chr02	13021394	TT	CC	CC	INTERGENIC			
SNP_8677_A_13026234	NC_021161.1	Ca_Kabuli_Chr02	13026234	AA	CC	CC	INTERGENIC			
SNP_8678_A_13026247	NC_021161.1	Ca_Kabuli_Chr02	13026247	TT	AA	AA	INTERGENIC			
SNP_8679_A_13026251	NC_021161.1	Ca_Kabuli_Chr02	13026251	GG	CC	CC	INTERGENIC			
SNP_8680_A_13026254	NC_021161.1	Ca_Kabuli_Chr02	13026254	CC	TT	TT	INTERGENIC			
SNP_8681_A_13026257	NC_021161.1	Ca_Kabuli_Chr02	13026257	CC	TT	TT	INTERGENIC			
SNP_8682_A_13026512	NC_021161.1	Ca_Kabuli_Chr02	13026512	CC	TT	TT	INTERGENIC			
SNP_8683_A_13026514	NC_021161.1	Ca_Kabuli_Chr02	13026514	AA	GG	GG	INTERGENIC			
SNP_8684_A_13026530	NC_021161.1	Ca_Kabuli_Chr02	13026530	GG	AA	AA	INTERGENIC			
SNP_8685_A_13026537	NC_021161.1	Ca_Kabuli_Chr02	13026537	GG	AA	AA	INTERGENIC			
SNP_8686_A_13026554	NC_021161.1	Ca_Kabuli_Chr02	13026554	CC	AA	AA	INTERGENIC			
SNP_8687_A_13026563	NC_021161.1	Ca_Kabuli_Chr02	13026563	AA	TT	TT	INTERGENIC			
SNP_8688_A_13026571	NC_021161.1	Ca_Kabuli_Chr02	13026571	AA	GG	GG	INTERGENIC			
SNP_8689_A_13026595	NC_021161.1	Ca_Kabuli_Chr02	13026595	TT	GG	GG	INTERGENIC			
SNP_8690_A_13026605	NC_021161.1	Ca_Kabuli_Chr02	13026605	TT	AA	AA	INTERGENIC			
SNP_8691_A_13027643	NC_021161.1	Ca_Kabuli_Chr02	13027643	GG	AA	AA	INTERGENIC			
SNP_8692_A_13048591	NC_021161.1	Ca_Kabuli_Chr02	13048591	CC	AA	AA	INTERGENIC			
SNP_8693_A_13061125	NC_021161.1	Ca_Kabuli_Chr02	13061125	AA	TT	TT	DRR	101507022		NAC domain-containing protein 19-like
SNP_8694_A_13061126	NC_021161.1	Ca_Kabuli_Chr02	13061126	AA	TT	TT	DRR	101507022		NAC domain-containing protein 19-like
SNP_8695_A_13115023	NC_021161.1	Ca_Kabuli_Chr02	13115023	CC	AA	AA	INTERGENIC			
SNP_8696_A_13141700	NC_021161.1	Ca_Kabuli_Chr02	13141700	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8697_A_13142649	NC_021161.1	Ca_Kabuli_Chr02	13142649	TT	CC	CC	INTERGENIC		
SNP_8698_A_13142651	NC_021161.1	Ca_Kabuli_Chr02	13142651	TT	CC	CC	INTERGENIC		
SNP_8699_A_13188741	NC_021161.1	Ca_Kabuli_Chr02	13188741	AA	GG	GG	INTERGENIC		
SNP_8701_A_13265328	NC_021161.1	Ca_Kabuli_Chr02	13265328	GG	AA	AA	INTERGENIC		
SNP_8702_A_13270171	NC_021161.1	Ca_Kabuli_Chr02	13270171	AA	GG	GG	INTERGENIC		
SNP_8703_A_13270501	NC_021161.1	Ca_Kabuli_Chr02	13270501	GG	AA	AA	INTERGENIC		
SNP_8704_A_13297849	NC_021161.1	Ca_Kabuli_Chr02	13297849	TT	CC	CC	INTERGENIC		
SNP_8705_A_13347443	NC_021161.1	Ca_Kabuli_Chr02	13347443	GG	AA	AA	INTERGENIC		
SNP_8706_A_13365414	NC_021161.1	Ca_Kabuli_Chr02	13365414	CC	AA	AA	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8707_A_13365438	NC_021161.1	Ca_Kabuli_Chr02	13365438	AA	GG	GG	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8708_A_13365478	NC_021161.1	Ca_Kabuli_Chr02	13365478	TT	CC	CC	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8709_A_13365628	NC_021161.1	Ca_Kabuli_Chr02	13365628	AA	GG	GG	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8710_A_13365650	NC_021161.1	Ca_Kabuli_Chr02	13365650	AA	TT	TT	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8711_A_13365688	NC_021161.1	Ca_Kabuli_Chr02	13365688	TT	AA	AA	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8712_A_13365950	NC_021161.1	Ca_Kabuli_Chr02	13365950	AA	GG	GG	URR	101508292	serine/threonine-protein phosphatase 7 long form homolog
SNP_8713_A_13369480	NC_021161.1	Ca_Kabuli_Chr02	13369480	GG	AA	AA	INTERGENIC		
SNP_8714_A_13373149	NC_021161.1	Ca_Kabuli_Chr02	13373149	TT	CC	CC	INTERGENIC		
SNP_8715_A_13385338	NC_021161.1	Ca_Kabuli_Chr02	13385338	AA	TT	TT	INTERGENIC		
SNP_8716_A_13444691	NC_021161.1	Ca_Kabuli_Chr02	13444691	AA	TT	TT	DRR	101493143	uncharacterized LOC101493143
SNP_8717_A_13444693	NC_021161.1	Ca_Kabuli_Chr02	13444693	AA	TT	TT	DRR	101493143	uncharacterized LOC101493143
SNP_8718_A_13572577	NC_021161.1	Ca_Kabuli_Chr02	13572577	TT	CC	CC	DRR	101510540	uncharacterized LOC101510540
SNP_8719_A_13572581	NC_021161.1	Ca_Kabuli_Chr02	13572581	TT	CC	CC	DRR	101510540	uncharacterized LOC101510540

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8720_A_13584155	NC_021161.1	Ca_Kabuli_Chr02	13584155	GG	AA	AA	INTERGENIC			
SNP_8721_A_13694933	NC_021161.1	Ca_Kabuli_Chr02	13694933	TT	GG	GG	INTERGENIC			
SNP_8722_A_13694970	NC_021161.1	Ca_Kabuli_Chr02	13694970	CC	TT	TT	INTERGENIC			
SNP_8723_A_13695383	NC_021161.1	Ca_Kabuli_Chr02	13695383	AA	GG	GG	INTERGENIC			
SNP_8724_A_13695415	NC_021161.1	Ca_Kabuli_Chr02	13695415	TT	GG	GG	INTERGENIC			
SNP_8725_A_13695430	NC_021161.1	Ca_Kabuli_Chr02	13695430	TT	GG	GG	INTERGENIC			
SNP_8726_A_13807594	NC_021161.1	Ca_Kabuli_Chr02	13807594	GG	AA	AA	INTERGENIC			
SNP_8727_A_13840564	NC_021161.1	Ca_Kabuli_Chr02	13840564	TT	GG	GG	INTERGENIC			
SNP_8728_A_13881577	NC_021161.1	Ca_Kabuli_Chr02	13881577	CC	TT	TT	INTRON	101511826	uncharacterized protein A14g04775-like	
SNP_8729_A_13909449	NC_021161.1	Ca_Kabuli_Chr02	13909449	AA	TT	TT	INTERGENIC			
SNP_8730_A_13909466	NC_021161.1	Ca_Kabuli_Chr02	13909466	TT	CC	CC	INTERGENIC			
SNP_8731_A_13909471	NC_021161.1	Ca_Kabuli_Chr02	13909471	CC	GG	GG	INTERGENIC			
SNP_8732_A_13909473	NC_021161.1	Ca_Kabuli_Chr02	13909473	CC	TT	TT	INTERGENIC			
SNP_8733_A_13909481	NC_021161.1	Ca_Kabuli_Chr02	13909481	TT	AA	AA	INTERGENIC			
SNP_8734_A_13913898	NC_021161.1	Ca_Kabuli_Chr02	13913898	GG	AA	AA	INTERGENIC			
SNP_8735_A_13922631	NC_021161.1	Ca_Kabuli_Chr02	13922631	CC	AA	AA	DRR	101512138	Unknown function	
SNP_8736_A_13922853	NC_021161.1	Ca_Kabuli_Chr02	13922853	AA	GG	GG	DRR	101512138	Unknown function	
SNP_8737_A_13923342	NC_021161.1	Ca_Kabuli_Chr02	13923342	TT	GG	GG	NON_SYNONYMOUS_CODING	101512138	Unknown function	
SNP_8738_A_13923419	NC_021161.1	Ca_Kabuli_Chr02	13923419	GG	CC	CC	SYNONYMOUS_CODING	101512138	Unknown function	
SNP_8739_A_13923648	NC_021161.1	Ca_Kabuli_Chr02	13923648	GG	CC	CC	INTRON	101512138	Unknown function	
SNP_8740_A_13923891	NC_021161.1	Ca_Kabuli_Chr02	13923891	AA	CC	CC	INTRON	101512138	Unknown function	
SNP_8741_A_13925091	NC_021161.1	Ca_Kabuli_Chr02	13925091	CC	GG	GG	NON_SYNONYMOUS_CODING	101512138	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8742_A_13955242	NC_021161.1	Ca_Kabuli_Chr02	13955242	TT	AA	AA	INTERGENIC		
SNP_8744_A_13957910	NC_021161.1	Ca_Kabuli_Chr02	13957910	CC	AA	AA	INTERGENIC		
SNP_8745_A_13957982	NC_021161.1	Ca_Kabuli_Chr02	13957982	AA	CC	CC	INTERGENIC		
SNP_8748_A_13989506	NC_021161.1	Ca_Kabuli_Chr02	13989506	GG	AA	AA	INTERGENIC		
SNP_8749_A_14025834	NC_021161.1	Ca_Kabuli_Chr02	14025834	TT	AA	AA	INTERGENIC		
SNP_8750_A_14041852	NC_021161.1	Ca_Kabuli_Chr02	14041852	GG	AA	AA	INTERGENIC		
SNP_8751_A_14044779	NC_021161.1	Ca_Kabuli_Chr02	14044779	TT	CC	CC	INTERGENIC		
SNP_8752_A_14071035	NC_021161.1	Ca_Kabuli_Chr02	14071035	AA	GG	GG	INTERGENIC		
SNP_8753_A_14085862	NC_021161.1	Ca_Kabuli_Chr02	14085862	CC	TT	TT	INTERGENIC		
SNP_8754_A_14085910	NC_021161.1	Ca_Kabuli_Chr02	14085910	AA	GG	GG	INTERGENIC		
SNP_8755_A_14086093	NC_021161.1	Ca_Kabuli_Chr02	14086093	TT	CC	CC	INTERGENIC		
SNP_8756_A_14086103	NC_021161.1	Ca_Kabuli_Chr02	14086103	AA	GG	GG	INTERGENIC		
SNP_8758_A_14086162	NC_021161.1	Ca_Kabuli_Chr02	14086162	TT	CC	CC	INTERGENIC		
SNP_8759_A_14086408	NC_021161.1	Ca_Kabuli_Chr02	14086408	AA	GG	GG	INTERGENIC		
SNP_8760_A_14086411	NC_021161.1	Ca_Kabuli_Chr02	14086411	TT	CC	CC	INTERGENIC		
SNP_8761_A_14171622	NC_021161.1	Ca_Kabuli_Chr02	14171622	CC	TT	TT	INTERGENIC		
SNP_8763_A_14195976	NC_021161.1	Ca_Kabuli_Chr02	14195976	CC	GG	GG	INTERGENIC		
SNP_8764_A_14196053	NC_021161.1	Ca_Kabuli_Chr02	14196053	TT	GG	GG	INTERGENIC		
SNP_8765_A_14197785	NC_021161.1	Ca_Kabuli_Chr02	14197785	GG	AA	AA	INTERGENIC		
SNP_8766_A_14213141	NC_021161.1	Ca_Kabuli_Chr02	14213141	TT	AA	AA	INTERGENIC		
SNP_8767_A_15153776	NC_021161.1	Ca_Kabuli_Chr02	15153776	TT	CC	CC	INTERGENIC		
SNP_8768_A_15175597	NC_021161.1	Ca_Kabuli_Chr02	15175597	GG	AA	AA	INTRON	101489567	probable inactive purple acid phosphatase 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8769_A_15200367	NC_021161.1	Ca_Kabuli_Chr02	15200367	AA	CC	CC	INTERGENIC		
SNP_8770_A_15200378	NC_021161.1	Ca_Kabuli_Chr02	15200378	AA	GG	GG	INTERGENIC		
SNP_8771_A_15351556	NC_021161.1	Ca_Kabuli_Chr02	15351556	GG	CC	CC	INTERGENIC		
SNP_8772_A_15363526	NC_021161.1	Ca_Kabuli_Chr02	15363526	AA	GG	GG	URR	101500166	uncharacterized protein At4g04775-like
SNP_8773_A_15401206	NC_021161.1	Ca_Kabuli_Chr02	15401206	AA	CC	CC	INTERGENIC		
SNP_8774_A_15406925	NC_021161.1	Ca_Kabuli_Chr02	15406925	AA	GG	GG	INTERGENIC		
SNP_8775_A_15453885	NC_021161.1	Ca_Kabuli_Chr02	15453885	GG	TT	TT	INTERGENIC		
SNP_8776_A_15454027	NC_021161.1	Ca_Kabuli_Chr02	15454027	AA	GG	GG	INTERGENIC		
SNP_8777_A_15454074	NC_021161.1	Ca_Kabuli_Chr02	15454074	GG	CC	CC	INTERGENIC		
SNP_8779_A_15454328	NC_021161.1	Ca_Kabuli_Chr02	15454328	TT	AA	AA	INTERGENIC		
SNP_8780_A_15454350	NC_021161.1	Ca_Kabuli_Chr02	15454350	TT	CC	CC	INTERGENIC		
SNP_8782_A_15520903	NC_021161.1	Ca_Kabuli_Chr02	15520903	TT	CC	CC	INTERGENIC		
SNP_8783_A_15521011	NC_021161.1	Ca_Kabuli_Chr02	15521011	CC	TT	TT	INTERGENIC		
SNP_8784_A_15521218	NC_021161.1	Ca_Kabuli_Chr02	15521218	CC	AA	AA	INTERGENIC		
SNP_8785_A_15550249	NC_021161.1	Ca_Kabuli_Chr02	15550249	GG	AA	AA	INTERGENIC		
SNP_8787_A_15577620	NC_021161.1	Ca_Kabuli_Chr02	15577620	GG	AA	AA	INTERGENIC		
SNP_8788_A_15588772	NC_021161.1	Ca_Kabuli_Chr02	15588772	AA	GG	GG	INTERGENIC		
SNP_8790_A_15589189	NC_021161.1	Ca_Kabuli_Chr02	15589189	CC	TT	TT	INTERGENIC		
SNP_8791_A_15589406	NC_021161.1	Ca_Kabuli_Chr02	15589406	CC	AA	AA	INTERGENIC		
SNP_8792_A_15589436	NC_021161.1	Ca_Kabuli_Chr02	15589436	GG	CC	CC	INTERGENIC		
SNP_8793_A_15589603	NC_021161.1	Ca_Kabuli_Chr02	15589603	CC	AA	AA	INTERGENIC		
SNP_8794_A_15591982	NC_021161.1	Ca_Kabuli_Chr02	15591982	AA	CC	CC	INTRON	101502080	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8795_A_15596867	NC_021161.1	Ca_Kabuli_Chr02	15596867	TT	CC	CC	INTERGENIC			
SNP_8796_A_15598338	NC_021161.1	Ca_Kabuli_Chr02	15598338	TT	CC	CC	INTERGENIC			
SNP_8797_A_15598998	NC_021161.1	Ca_Kabuli_Chr02	15598998	GG	TT	TT	INTERGENIC			
SNP_8798_A_15599098	NC_021161.1	Ca_Kabuli_Chr02	15599098	AA	GG	GG	INTERGENIC			
SNP_8799_A_15600141	NC_021161.1	Ca_Kabuli_Chr02	15600141	TT	GG	GG	INTERGENIC			
SNP_8801_A_15658097	NC_021161.1	Ca_Kabuli_Chr02	15658097	TT	CC	CC	INTERGENIC			
SNP_8802_A_15675728	NC_021161.1	Ca_Kabuli_Chr02	15675728	CC	TT	TT	INTERGENIC			
SNP_8804_A_15717500	NC_021161.1	Ca_Kabuli_Chr02	15717500	CC	AA	AA	DRR	101502407	uncharacterized LOC101502407	
SNP_8805_A_15737675	NC_021161.1	Ca_Kabuli_Chr02	15737675	AA	GG	GG	INTERGENIC			
SNP_8806_A_15737706	NC_021161.1	Ca_Kabuli_Chr02	15737706	CC	TT	TT	INTERGENIC			
SNP_8807_A_15737710	NC_021161.1	Ca_Kabuli_Chr02	15737710	GG	AA	AA	INTERGENIC			
SNP_8808_A_15737719	NC_021161.1	Ca_Kabuli_Chr02	15737719	TT	CC	CC	INTERGENIC			
SNP_8809_A_15737734	NC_021161.1	Ca_Kabuli_Chr02	15737734	TT	CC	CC	INTERGENIC			
SNP_8810_A_15737738	NC_021161.1	Ca_Kabuli_Chr02	15737738	GG	CC	CC	INTERGENIC			
SNP_8811_A_15737746	NC_021161.1	Ca_Kabuli_Chr02	15737746	AA	TT	TT	INTERGENIC			
SNP_8812_A_15737781	NC_021161.1	Ca_Kabuli_Chr02	15737781	TT	CC	CC	INTERGENIC			
SNP_8813_A_15737782	NC_021161.1	Ca_Kabuli_Chr02	15737782	TT	CC	CC	INTERGENIC			
SNP_8814_A_15746710	NC_021161.1	Ca_Kabuli_Chr02	15746710	AA	GG	GG	INTERGENIC			
SNP_8815_A_15902864	NC_021161.1	Ca_Kabuli_Chr02	15902864	GG	CC	CC	INTERGENIC			
SNP_8816_A_15903634	NC_021161.1	Ca_Kabuli_Chr02	15903634	TT	CC	CC	INTERGENIC			
SNP_8817_A_15903989	NC_021161.1	Ca_Kabuli_Chr02	15903989	TT	CC	CC	INTERGENIC			
SNP_8818_A_15912641	NC_021161.1	Ca_Kabuli_Chr02	15912641	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8819_A_15915967	NC_021161.1	Ca_Kabuli_Chr02	15915967	AA	CC	CC	INTERGENIC		
SNP_8820_A_15915973	NC_021161.1	Ca_Kabuli_Chr02	15915973	CC	TT	TT	INTERGENIC		
SNP_8821_A_15917479	NC_021161.1	Ca_Kabuli_Chr02	15917479	CC	AA	AA	INTERGENIC		
SNP_8822_A_15917494	NC_021161.1	Ca_Kabuli_Chr02	15917494	GG	TT	TT	INTERGENIC		
SNP_8823_A_15941138	NC_021161.1	Ca_Kabuli_Chr02	15941138	TT	CC	CC	INTERGENIC		
SNP_8824_A_15941156	NC_021161.1	Ca_Kabuli_Chr02	15941156	GG	AA	AA	INTERGENIC		
SNP_8825_A_15941158	NC_021161.1	Ca_Kabuli_Chr02	15941158	TT	AA	AA	INTERGENIC		
SNP_8826_A_15941176	NC_021161.1	Ca_Kabuli_Chr02	15941176	TT	GG	GG	INTERGENIC		
SNP_8827_A_15941182	NC_021161.1	Ca_Kabuli_Chr02	15941182	TT	CC	CC	INTERGENIC		
SNP_8828_A_16003171	NC_021161.1	Ca_Kabuli_Chr02	16003171	CC	GG	GG	INTERGENIC		
SNP_8829_A_16013606	NC_021161.1	Ca_Kabuli_Chr02	16013606	AA	GG	GG	INTRON	101504006	MADS-box protein CMB1-like
SNP_8830_A_16032180	NC_021161.1	Ca_Kabuli_Chr02	16032180	GG	AA	AA	INTRON	101504006	MADS-box protein CMB1-like
SNP_8831_A_16062345	NC_021161.1	Ca_Kabuli_Chr02	16062345	TT	CC	CC	INTERGENIC		
SNP_8832_A_16086219	NC_021161.1	Ca_Kabuli_Chr02	16086219	CC	GG	GG	INTERGENIC		
SNP_8833_A_16171088	NC_021161.1	Ca_Kabuli_Chr02	16171088	CC	GG	GG	INTERGENIC		
SNP_8834_A_16171632	NC_021161.1	Ca_Kabuli_Chr02	16171632	AA	GG	GG	INTERGENIC		
SNP_8835_A_16220849	NC_021161.1	Ca_Kabuli_Chr02	16220849	CC	TT	TT	INTERGENIC		
SNP_8836_A_16220938	NC_021161.1	Ca_Kabuli_Chr02	16220938	CC	TT	TT	INTERGENIC		
SNP_8837_A_16250878	NC_021161.1	Ca_Kabuli_Chr02	16250878	TT	CC	CC	INTERGENIC		
SNP_8838_A_16252132	NC_021161.1	Ca_Kabuli_Chr02	16252132	AA	GG	GG	INTERGENIC		
SNP_8839_A_16252175	NC_021161.1	Ca_Kabuli_Chr02	16252175	TT	AA	AA	INTERGENIC		
SNP_8840_A_16252501	NC_021161.1	Ca_Kabuli_Chr02	16252501	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8841_A_16252603	NC_021161.1	Ca_Kabuli_Chr02	16252603	TT	CC	CC	INTERGENIC		
SNP_8842_A_16335402	NC_021161.1	Ca_Kabuli_Chr02	16335402	AA	GG	GG	INTERGENIC		
SNP_8843_A_16335418	NC_021161.1	Ca_Kabuli_Chr02	16335418	GG	AA	AA	INTERGENIC		
SNP_8844_A_16341392	NC_021161.1	Ca_Kabuli_Chr02	16341392	TT	GG	GG	INTERGENIC		
SNP_8845_A_16365662	NC_021161.1	Ca_Kabuli_Chr02	16365662	TT	CC	CC	INTRON	101510111	clavamate synthase-like protein At3g21360
SNP_8846_A_16368219	NC_021161.1	Ca_Kabuli_Chr02	16368219	CC	AA	AA	URR	101510111	clavamate synthase-like protein At3g21360
SNP_8847_A_16433264	NC_021161.1	Ca_Kabuli_Chr02	16433264	TT	CC	CC	INTERGENIC		
SNP_8848_A_16433654	NC_021161.1	Ca_Kabuli_Chr02	16433654	AA	GG	GG	INTERGENIC		
SNP_8849_A_16456475	NC_021161.1	Ca_Kabuli_Chr02	16456475	TT	CC	CC	INTERGENIC		
SNP_8850_A_16456492	NC_021161.1	Ca_Kabuli_Chr02	16456492	GG	AA	AA	INTERGENIC		
SNP_8851_A_16456500	NC_021161.1	Ca_Kabuli_Chr02	16456500	AA	GG	GG	INTERGENIC		
SNP_8852_A_16456508	NC_021161.1	Ca_Kabuli_Chr02	16456508	AA	CC	CC	INTERGENIC		
SNP_8854_A_16456587	NC_021161.1	Ca_Kabuli_Chr02	16456587	AA	GG	GG	INTERGENIC		
SNP_8855_A_16456591	NC_021161.1	Ca_Kabuli_Chr02	16456591	CC	TT	TT	INTERGENIC		
SNP_8856_A_16456800	NC_021161.1	Ca_Kabuli_Chr02	16456800	TT	CC	CC	INTERGENIC		
SNP_8857_A_16458241	NC_021161.1	Ca_Kabuli_Chr02	16458241	CC	TT	TT	INTERGENIC		
SNP_8858_A_16466141	NC_021161.1	Ca_Kabuli_Chr02	16466141	CC	TT	TT	INTERGENIC		
SNP_8859_A_16489672	NC_021161.1	Ca_Kabuli_Chr02	16489672	GG	AA	AA	INTERGENIC		
SNP_8860_A_16507755	NC_021161.1	Ca_Kabuli_Chr02	16507755	AA	TT	TT	INTERGENIC		
SNP_8861_A_16508350	NC_021161.1	Ca_Kabuli_Chr02	16508350	AA	GG	GG	INTERGENIC		
SNP_8862_A_16508367	NC_021161.1	Ca_Kabuli_Chr02	16508367	AA	TT	TT	INTERGENIC		
SNP_8863_A_16508483	NC_021161.1	Ca_Kabuli_Chr02	16508483	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8864_A_16508537	NC_021161.1	Ca_Kabuli_Chr02	16508537	CC	GG	GG	INTERGENIC		
SNP_8865_A_16508764	NC_021161.1	Ca_Kabuli_Chr02	16508764	CC	TT	TT	INTERGENIC		
SNP_8866_A_16509102	NC_021161.1	Ca_Kabuli_Chr02	16509102	TT	CC	CC	INTERGENIC		
SNP_8867_A_16509249	NC_021161.1	Ca_Kabuli_Chr02	16509249	GG	AA	AA	INTERGENIC		
SNP_8868_A_16509316	NC_021161.1	Ca_Kabuli_Chr02	16509316	TT	CC	CC	INTERGENIC		
SNP_8869_A_16509586	NC_021161.1	Ca_Kabuli_Chr02	16509586	CC	TT	TT	INTERGENIC		
SNP_8870_A_16509591	NC_021161.1	Ca_Kabuli_Chr02	16509591	TT	CC	CC	INTERGENIC		
SNP_8871_A_16511747	NC_021161.1	Ca_Kabuli_Chr02	16511747	GG	AA	AA	INTERGENIC		
SNP_8872_A_16514195	NC_021161.1	Ca_Kabuli_Chr02	16514195	AA	GG	GG	INTERGENIC		
SNP_8873_A_16565488	NC_021161.1	Ca_Kabuli_Chr02	16565488	TT	CC	CC	URR	101511284	uncharacterized LOC101511284
SNP_8874_A_16589786	NC_021161.1	Ca_Kabuli_Chr02	16589786	CC	TT	TT	INTERGENIC		
SNP_8875_A_16602863	NC_021161.1	Ca_Kabuli_Chr02	16602863	TT	CC	CC	URR	101488483	uncharacterized LOC101488483
SNP_8876_A_16604893	NC_021161.1	Ca_Kabuli_Chr02	16604893	GG	AA	AA	INTERGENIC		
SNP_8877_A_16604909	NC_021161.1	Ca_Kabuli_Chr02	16604909	TT	CC	CC	INTERGENIC		
SNP_8878_A_16650062	NC_021161.1	Ca_Kabuli_Chr02	16650062	TT	CC	CC	INTERGENIC		
SNP_8879_A_16650071	NC_021161.1	Ca_Kabuli_Chr02	16650071	CC	TT	TT	INTERGENIC		
SNP_8880_A_16650158	NC_021161.1	Ca_Kabuli_Chr02	16650158	AA	GG	GG	INTERGENIC		
SNP_8881_A_16666695	NC_021161.1	Ca_Kabuli_Chr02	16666695	TT	GG	GG	INTERGENIC		
SNP_8882_A_16697585	NC_021161.1	Ca_Kabuli_Chr02	16697585	CC	TT	TT	INTERGENIC		
SNP_8883_A_16715349	NC_021161.1	Ca_Kabuli_Chr02	16715349	TT	GG	GG	NON_SYNONYMOUS_CODING	101488826	Unknown function
SNP_8884_A_16864507	NC_021161.1	Ca_Kabuli_Chr02	16864507	CC	AA	AA	INTERGENIC		
SNP_8885_A_16864702	NC_021161.1	Ca_Kabuli_Chr02	16864702	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8886_A_16864729	NC_021161.1	Ca_Kabuli_Chr02	16864729	TT	CC	CC	INTERGENIC			
SNP_8887_A_16864811	NC_021161.1	Ca_Kabuli_Chr02	16864811	GG	AA	AA	INTERGENIC			
SNP_8888_A_16938675	NC_021161.1	Ca_Kabuli_Chr02	16938675	TT	AA	AA	INTERGENIC			
SNP_8889_A_16938676	NC_021161.1	Ca_Kabuli_Chr02	16938676	GG	CC	CC	INTERGENIC			
SNP_8890_A_16938680	NC_021161.1	Ca_Kabuli_Chr02	16938680	CC	TT	TT	INTERGENIC			
SNP_8891_A_16938681	NC_021161.1	Ca_Kabuli_Chr02	16938681	GG	AA	AA	INTERGENIC			
SNP_8892_A_16991367	NC_021161.1	Ca_Kabuli_Chr02	16991367	CC	GG	GG	INTERGENIC			
SNP_8893_A_16991372	NC_021161.1	Ca_Kabuli_Chr02	16991372	CC	TT	TT	INTERGENIC			
SNP_8894_A_16991409	NC_021161.1	Ca_Kabuli_Chr02	16991409	GG	AA	AA	INTERGENIC			
SNP_8895_A_17030318	NC_021161.1	Ca_Kabuli_Chr02	17030318	CC	AA	AA	INTERGENIC			
SNP_8896_A_17030590	NC_021161.1	Ca_Kabuli_Chr02	17030590	CC	AA	AA	INTERGENIC			
SNP_8897_A_17031821	NC_021161.1	Ca_Kabuli_Chr02	17031821	CC	AA	AA	INTERGENIC			
SNP_8899_A_17050215	NC_021161.1	Ca_Kabuli_Chr02	17050215	TT	CC	CC	INTERGENIC			
SNP_8900_A_17050245	NC_021161.1	Ca_Kabuli_Chr02	17050245	AA	GG	GG	INTERGENIC			
SNP_8901_A_17050342	NC_021161.1	Ca_Kabuli_Chr02	17050342	GG	AA	AA	INTERGENIC			
SNP_8902_A_17050371	NC_021161.1	Ca_Kabuli_Chr02	17050371	TT	GG	GG	INTERGENIC			
SNP_8903_A_17051495	NC_021161.1	Ca_Kabuli_Chr02	17051495	GG	AA	AA	INTERGENIC			
SNP_8905_A_17061666	NC_021161.1	Ca_Kabuli_Chr02	17061666	TT	CC	CC	INTERGENIC			
SNP_8907_A_17061686	NC_021161.1	Ca_Kabuli_Chr02	17061686	GG	AA	AA	INTERGENIC			
SNP_8908_A_17062079	NC_021161.1	Ca_Kabuli_Chr02	17062079	AA	GG	GG	INTERGENIC			
SNP_8909_A_17106692	NC_021161.1	Ca_Kabuli_Chr02	17106692	TT	GG	GG	URR	101511500		zinc finger MYM-type protein 1-like
SNP_8910_A_17161727	NC_021161.1	Ca_Kabuli_Chr02	17161727	TT	CC	CC	NON_SYNONYMOUS_CODING	101494422		phosphoenolpyruvate carboxylase 4-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8911_A_17195458	NC_021161.1	Ca_Kabuli_Chr02	17195458	GG	AA	AA	INTERGENIC		
SNP_8912_A_17203676	NC_021161.1	Ca_Kabuli_Chr02	17203676	GG	TT	TT	NON_SYNONYMOUS_CODING	101512465	metal-nicotianamine transporter YSL3-like
SNP_8913_A_17203869	NC_021161.1	Ca_Kabuli_Chr02	17203869	GG	AA	AA	NON_SYNONYMOUS_CODING	101512465	metal-nicotianamine transporter YSL3-like
SNP_8914_A_17208715	NC_021161.1	Ca_Kabuli_Chr02	17208715	CC	TT	TT	INTERGENIC		
SNP_8915_A_17208801	NC_021161.1	Ca_Kabuli_Chr02	17208801	AA	GG	GG	INTERGENIC		
SNP_8916_A_17208837	NC_021161.1	Ca_Kabuli_Chr02	17208837	TT	GG	GG	INTERGENIC		
SNP_8917_A_17208855	NC_021161.1	Ca_Kabuli_Chr02	17208855	AA	GG	GG	INTERGENIC		
SNP_8918_A_17209000	NC_021161.1	Ca_Kabuli_Chr02	17209000	AA	GG	GG	INTERGENIC		
SNP_8919_A_17209014	NC_021161.1	Ca_Kabuli_Chr02	17209014	TT	CC	CC	INTERGENIC		
SNP_8920_A_17209030	NC_021161.1	Ca_Kabuli_Chr02	17209030	TT	CC	CC	INTERGENIC		
SNP_8921_A_17209221	NC_021161.1	Ca_Kabuli_Chr02	17209221	CC	TT	TT	INTERGENIC		
SNP_8922_A_17209236	NC_021161.1	Ca_Kabuli_Chr02	17209236	TT	CC	CC	INTERGENIC		
SNP_8924_A_17209271	NC_021161.1	Ca_Kabuli_Chr02	17209271	TT	AA	AA	INTERGENIC		
SNP_8925_A_17209272	NC_021161.1	Ca_Kabuli_Chr02	17209272	AA	CC	CC	INTERGENIC		
SNP_8926_A_17209316	NC_021161.1	Ca_Kabuli_Chr02	17209316	GG	AA	AA	INTERGENIC		
SNP_8927_A_17243366	NC_021161.1	Ca_Kabuli_Chr02	17243366	AA	GG	GG	INTRON	101496043	HD domain-containing protein C4G3.17
SNP_8928_A_17256354	NC_021161.1	Ca_Kabuli_Chr02	17256354	TT	CC	CC	INTERGENIC		
SNP_8929_A_17257270	NC_021161.1	Ca_Kabuli_Chr02	17257270	TT	GG	GG	INTERGENIC		
SNP_8930_A_17257480	NC_021161.1	Ca_Kabuli_Chr02	17257480	AA	GG	GG	INTERGENIC		
SNP_8931_A_17385384	NC_021161.1	Ca_Kabuli_Chr02	17385384	CC	TT	TT	INTERGENIC		
SNP_8932_A_17386057	NC_021161.1	Ca_Kabuli_Chr02	17386057	TT	AA	AA	INTERGENIC		
SNP_8933_A_17387281	NC_021161.1	Ca_Kabuli_Chr02	17387281	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8934_A_17387294	NC_021161.1	Ca_Kabuli_Chr02	17387294	TT	CC	CC	INTERGENIC		
SNP_8935_A_17387698	NC_021161.1	Ca_Kabuli_Chr02	17387698	TT	AA	AA	INTERGENIC		
SNP_8936_A_17402394	NC_021161.1	Ca_Kabuli_Chr02	17402394	AA	GG	GG	NON_SYNONYMOUS_CODING	101513439	Unknown function
SNP_8937_A_17406919	NC_021161.1	Ca_Kabuli_Chr02	17406919	AA	GG	GG	INTERGENIC		
SNP_8938_A_17407152	NC_021161.1	Ca_Kabuli_Chr02	17407152	TT	CC	CC	INTERGENIC		
SNP_8939_A_17407191	NC_021161.1	Ca_Kabuli_Chr02	17407191	TT	CC	CC	INTERGENIC		
SNP_8940_A_17407192	NC_021161.1	Ca_Kabuli_Chr02	17407192	TT	AA	AA	INTERGENIC		
SNP_8941_A_17407228	NC_021161.1	Ca_Kabuli_Chr02	17407228	TT	CC	CC	INTERGENIC		
SNP_8942_A_17407243	NC_021161.1	Ca_Kabuli_Chr02	17407243	TT	CC	CC	INTERGENIC		
SNP_8943_A_17407306	NC_021161.1	Ca_Kabuli_Chr02	17407306	TT	CC	CC	INTERGENIC		
SNP_8944_A_17463776	NC_021161.1	Ca_Kabuli_Chr02	17463776	TT	CC	CC	URR	101497018	importin-9
SNP_8945_A_17491116	NC_021161.1	Ca_Kabuli_Chr02	17491116	TT	CC	CC	INTERGENIC		
SNP_8946_A_17491346	NC_021161.1	Ca_Kabuli_Chr02	17491346	TT	CC	CC	INTERGENIC		
SNP_8947_A_17551350	NC_021161.1	Ca_Kabuli_Chr02	17551350	AA	CC	CC	INTRON	101514090	uncharacterized LOC101514090
SNP_8948_A_17551479	NC_021161.1	Ca_Kabuli_Chr02	17551479	CC	TT	TT	NON_SYNONYMOUS_CODING	101514090	uncharacterized LOC101514090
SNP_8949_A_17551577	NC_021161.1	Ca_Kabuli_Chr02	17551577	AA	CC	CC	DRR	101514415	cytosolic sulfotransferase 14-like
SNP_8950_A_17551656	NC_021161.1	Ca_Kabuli_Chr02	17551656	AA	GG	GG	DRR	101514415	cytosolic sulfotransferase 14-like
SNP_8952_A_17551859	NC_021161.1	Ca_Kabuli_Chr02	17551859	AA	CC	CC	DRR	101514415	cytosolic sulfotransferase 14-like
SNP_8954_A_17595233	NC_021161.1	Ca_Kabuli_Chr02	17595233	AA	GG	GG	INTERGENIC		
SNP_8955_A_17704886	NC_021161.1	Ca_Kabuli_Chr02	17704886	GG	AA	AA	INTERGENIC		
SNP_8956_A_17704901	NC_021161.1	Ca_Kabuli_Chr02	17704901	GG	AA	AA	INTERGENIC		
SNP_8957_A_17704922	NC_021161.1	Ca_Kabuli_Chr02	17704922	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_8958_A_17704934	NC_021161.1	Ca_Kabuli_Chr02	17704934	CC	TT	TT	INTERGENIC		
SNP_8959_A_17724750	NC_021161.1	Ca_Kabuli_Chr02	17724750	TT	CC	CC	INTERGENIC		
SNP_8960_A_17728738	NC_021161.1	Ca_Kabuli_Chr02	17728738	TT	CC	CC	URR	101410582	transfer RNA histidine(anticodon GUG)
SNP_8961_A_17765814	NC_021161.1	Ca_Kabuli_Chr02	17765814	GG	TT	TT	INTERGENIC		
SNP_8962_A_17770501	NC_021161.1	Ca_Kabuli_Chr02	17770501	CC	TT	TT	INTERGENIC		
SNP_8963_A_17772698	NC_021161.1	Ca_Kabuli_Chr02	17772698	CC	TT	TT	INTERGENIC		
SNP_8964_A_17816837	NC_021161.1	Ca_Kabuli_Chr02	17816837	GG	AA	AA	INTERGENIC		
SNP_8965_A_17854200	NC_021161.1	Ca_Kabuli_Chr02	17854200	TT	CC	CC	URR	101500487	F-box/FBD/LRR-repeat protein At1g13570-like
SNP_8966_A_17854201	NC_021161.1	Ca_Kabuli_Chr02	17854201	TT	CC	CC	URR	101500487	F-box/FBD/LRR-repeat protein At1g13570-like
SNP_8967_A_17876349	NC_021161.1	Ca_Kabuli_Chr02	17876349	AA	CC	CC	INTERGENIC		
SNP_8968_A_17876351	NC_021161.1	Ca_Kabuli_Chr02	17876351	AA	GG	GG	INTERGENIC		
SNP_8969_A_17892640	NC_021161.1	Ca_Kabuli_Chr02	17892640	AA	GG	GG	INTERGENIC		
SNP_8970_A_17893072	NC_021161.1	Ca_Kabuli_Chr02	17893072	TT	CC	CC	INTERGENIC		
SNP_8971_A_17893077	NC_021161.1	Ca_Kabuli_Chr02	17893077	AA	TT	TT	INTERGENIC		
SNP_8972_A_17904336	NC_021161.1	Ca_Kabuli_Chr02	17904336	CC	TT	TT	INTRON	101501129	uncharacterized LOC101501129
SNP_8973_A_17915721	NC_021161.1	Ca_Kabuli_Chr02	17915721	TT	CC	CC	INTERGENIC		
SNP_8974_A_17922398	NC_021161.1	Ca_Kabuli_Chr02	17922398	TT	CC	CC	INTERGENIC		
SNP_8975_A_17981432	NC_021161.1	Ca_Kabuli_Chr02	17981432	CC	TT	TT	INTERGENIC		
SNP_8976_A_17995602	NC_021161.1	Ca_Kabuli_Chr02	17995602	AA	GG	GG	INTERGENIC		
SNP_8977_A_17997684	NC_021161.1	Ca_Kabuli_Chr02	17997684	TT	CC	CC	INTERGENIC		
SNP_8978_A_17997689	NC_021161.1	Ca_Kabuli_Chr02	17997689	CC	TT	TT	INTERGENIC		
SNP_8979_A_17997753	NC_021161.1	Ca_Kabuli_Chr02	17997753	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_8980_A_17997757	NC_021161.1	Ca_Kabuli_Chr02	17997757	CC	TT	TT	INTERGENIC			
SNP_8981_A_17997822	NC_021161.1	Ca_Kabuli_Chr02	17997822	TT	CC	CC	INTERGENIC			
SNP_8982_A_17997827	NC_021161.1	Ca_Kabuli_Chr02	17997827	GG	AA	AA	INTERGENIC			
SNP_8983_A_18101286	NC_021161.1	Ca_Kabuli_Chr02	18101286	TT	CC	CC	INTERGENIC			
SNP_8984_A_18101647	NC_021161.1	Ca_Kabuli_Chr02	18101647	CC	TT	TT	INTERGENIC			
SNP_8985_A_18125117	NC_021161.1	Ca_Kabuli_Chr02	18125117	CC	TT	TT	INTERGENIC			
SNP_8986_A_18125123	NC_021161.1	Ca_Kabuli_Chr02	18125123	CC	AA	AA	INTERGENIC			
SNP_8987_A_18169995	NC_021161.1	Ca_Kabuli_Chr02	18169995	TT	CC	CC	INTERGENIC			
SNP_8988_A_18170071	NC_021161.1	Ca_Kabuli_Chr02	18170071	TT	AA	AA	INTERGENIC			
SNP_8989_A_18211752	NC_021161.1	Ca_Kabuli_Chr02	18211752	TT	CC	CC	INTERGENIC			
SNP_8990_A_18211753	NC_021161.1	Ca_Kabuli_Chr02	18211753	CC	TT	TT	INTERGENIC			
SNP_8992_A_18326572	NC_021161.1	Ca_Kabuli_Chr02	18326572	AA	GG	GG	INTERGENIC			
SNP_8993_A_18326632	NC_021161.1	Ca_Kabuli_Chr02	18326632	TT	GG	GG	INTERGENIC			
SNP_8995_A_18409050	NC_021161.1	Ca_Kabuli_Chr02	18409050	CC	TT	TT	INTERGENIC			
SNP_8996_A_18438386	NC_021161.1	Ca_Kabuli_Chr02	18438386	GG	AA	AA	INTERGENIC			
SNP_8997_A_18438391	NC_021161.1	Ca_Kabuli_Chr02	18438391	GG	AA	AA	INTERGENIC			
SNP_8998_A_18523391	NC_021161.1	Ca_Kabuli_Chr02	18523391	GG	AA	AA	INTERGENIC			
SNP_9000_A_18587020	NC_021161.1	Ca_Kabuli_Chr02	18587020	TT	CC	CC	INTERGENIC			
SNP_9001_A_18587041	NC_021161.1	Ca_Kabuli_Chr02	18587041	CC	TT	TT	INTERGENIC			
SNP_9002_A_18587045	NC_021161.1	Ca_Kabuli_Chr02	18587045	TT	CC	CC	INTERGENIC			
SNP_9003_A_18587092	NC_021161.1	Ca_Kabuli_Chr02	18587092	AA	TT	TT	INTERGENIC			
SNP_9004_A_18592936	NC_021161.1	Ca_Kabuli_Chr02	18592936	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9006_A_18611627	NC_021161.1	Ca_Kabuli_Chr02	18611627	TT	CC	CC	INTERGENIC			
SNP_9007_A_18611652	NC_021161.1	Ca_Kabuli_Chr02	18611652	CC	GG	GG	INTERGENIC			
SNP_9008_A_18699680	NC_021161.1	Ca_Kabuli_Chr02	18699680	TT	CC	CC	INTERGENIC			
SNP_9009_A_18699681	NC_021161.1	Ca_Kabuli_Chr02	18699681	GG	AA	AA	INTERGENIC			
SNP_9010_A_18707456	NC_021161.1	Ca_Kabuli_Chr02	18707456	GG	AA	AA	INTERGENIC			
SNP_9011_A_18711952	NC_021161.1	Ca_Kabuli_Chr02	18711952	CC	AA	AA	INTERGENIC			
SNP_9012_A_18711955	NC_021161.1	Ca_Kabuli_Chr02	18711955	CC	GG	GG	INTERGENIC			
SNP_9014_A_18755446	NC_021161.1	Ca_Kabuli_Chr02	18755446	CC	GG	GG	INTERGENIC			
SNP_9016_A_18776229	NC_021161.1	Ca_Kabuli_Chr02	18776229	TT	CC	CC	INTERGENIC			
SNP_9017_A_18776586	NC_021161.1	Ca_Kabuli_Chr02	18776586	AA	GG	GG	INTERGENIC			
SNP_9018_A_18776591	NC_021161.1	Ca_Kabuli_Chr02	18776591	AA	TT	TT	INTERGENIC			
SNP_9019_A_18776632	NC_021161.1	Ca_Kabuli_Chr02	18776632	TT	GG	GG	INTERGENIC			
SNP_9020_A_18776637	NC_021161.1	Ca_Kabuli_Chr02	18776637	CC	TT	TT	INTERGENIC			
SNP_9021_A_18776649	NC_021161.1	Ca_Kabuli_Chr02	18776649	GG	AA	AA	INTERGENIC			
SNP_9022_A_18776675	NC_021161.1	Ca_Kabuli_Chr02	18776675	AA	TT	TT	INTERGENIC			
SNP_9023_A_18777244	NC_021161.1	Ca_Kabuli_Chr02	18777244	CC	GG	GG	INTERGENIC			
SNP_9024_A_18777261	NC_021161.1	Ca_Kabuli_Chr02	18777261	CC	TT	TT	INTERGENIC			
SNP_9026_A_18835324	NC_021161.1	Ca_Kabuli_Chr02	18835324	TT	CC	CC	INTERGENIC			
SNP_9027_A_18854188	NC_021161.1	Ca_Kabuli_Chr02	18854188	TT	CC	CC	INTERGENIC			
SNP_9029_A_19000030	NC_021161.1	Ca_Kabuli_Chr02	19000030	GG	AA	AA	INTERGENIC			
SNP_9030_A_19000040	NC_021161.1	Ca_Kabuli_Chr02	19000040	AA	TT	TT	INTERGENIC			
SNP_9031_A_19000059	NC_021161.1	Ca_Kabuli_Chr02	19000059	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9032_A_19008963	NC_021161.1	Ca_Kabuli_Chr02	19008963	AA	GG	GG	INTRON	101511182	probable terpene synthase 2
SNP_9034_A_19008991	NC_021161.1	Ca_Kabuli_Chr02	19008991	GG	TT	TT	INTRON	101511182	probable terpene synthase 2
SNP_9035_A_19009078	NC_021161.1	Ca_Kabuli_Chr02	19009078	GG	AA	AA	INTRON	101511182	probable terpene synthase 2
SNP_9036_A_19009219	NC_021161.1	Ca_Kabuli_Chr02	19009219	GG	AA	AA	INTRON	101511182	probable terpene synthase 2
SNP_9037_A_19009234	NC_021161.1	Ca_Kabuli_Chr02	19009234	AA	CC	CC	INTRON	101511182	probable terpene synthase 2
SNP_9038_A_19009310	NC_021161.1	Ca_Kabuli_Chr02	19009310	TT	GG	GG	INTRON	101511182	probable terpene synthase 2
SNP_9039_A_19015885	NC_021161.1	Ca_Kabuli_Chr02	19015885	CC	TT	TT	INTERGENIC		
SNP_9040_A_19015940	NC_021161.1	Ca_Kabuli_Chr02	19015940	GG	TT	TT	INTERGENIC		
SNP_9041_A_19016117	NC_021161.1	Ca_Kabuli_Chr02	19016117	GG	AA	AA	INTERGENIC		
SNP_9042_A_19016130	NC_021161.1	Ca_Kabuli_Chr02	19016130	TT	CC	CC	INTERGENIC		
SNP_9043_A_19016165	NC_021161.1	Ca_Kabuli_Chr02	19016165	TT	CC	CC	INTERGENIC		
SNP_9044_A_19016276	NC_021161.1	Ca_Kabuli_Chr02	19016276	TT	GG	GG	INTERGENIC		
SNP_9045_A_19016301	NC_021161.1	Ca_Kabuli_Chr02	19016301	TT	CC	CC	INTERGENIC		
SNP_9046_A_19016333	NC_021161.1	Ca_Kabuli_Chr02	19016333	CC	AA	AA	INTERGENIC		
SNP_9047_A_19016382	NC_021161.1	Ca_Kabuli_Chr02	19016382	CC	TT	TT	INTERGENIC		
SNP_9048_A_19025596	NC_021161.1	Ca_Kabuli_Chr02	19025596	GG	TT	TT	NON_SYNONYMOUS_CODING	101494014	probable terpene synthase 2
SNP_9049_A_19093570	NC_021161.1	Ca_Kabuli_Chr02	19093570	GG	AA	AA	INTERGENIC		
SNP_9050_A_19101582	NC_021161.1	Ca_Kabuli_Chr02	19101582	AA	CC	CC	INTERGENIC		
SNP_9051_A_19101628	NC_021161.1	Ca_Kabuli_Chr02	19101628	TT	GG	GG	INTERGENIC		
SNP_9052_A_19101835	NC_021161.1	Ca_Kabuli_Chr02	19101835	TT	CC	CC	INTERGENIC		
SNP_9053_A_19101837	NC_021161.1	Ca_Kabuli_Chr02	19101837	AA	GG	GG	INTERGENIC		
SNP_9054_A_19101914	NC_021161.1	Ca_Kabuli_Chr02	19101914	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9055_A_19123710	NC_021161.1	Ca_Kabuli_Chr02	19123710	AA	TT	TT	INTERGENIC			
SNP_9057_A_19135943	NC_021161.1	Ca_Kabuli_Chr02	19135943	AA	GG	GG	INTERGENIC			
SNP_9058_A_19139071	NC_021161.1	Ca_Kabuli_Chr02	19139071	TT	CC	CC	INTERGENIC			
SNP_9059_A_19139107	NC_021161.1	Ca_Kabuli_Chr02	19139107	TT	CC	CC	INTERGENIC			
SNP_9060_A_19139815	NC_021161.1	Ca_Kabuli_Chr02	19139815	GG	AA	AA	INTERGENIC			
SNP_9062_A_19180136	NC_021161.1	Ca_Kabuli_Chr02	19180136	TT	AA	AA	INTERGENIC			
SNP_9063_A_19193739	NC_021161.1	Ca_Kabuli_Chr02	19193739	GG	AA	AA	INTERGENIC			
SNP_9064_A_19193780	NC_021161.1	Ca_Kabuli_Chr02	19193780	GG	TT	TT	INTERGENIC			
SNP_9065_A_19198037	NC_021161.1	Ca_Kabuli_Chr02	19198037	CC	GG	GG	INTERGENIC			
SNP_9066_A_19198280	NC_021161.1	Ca_Kabuli_Chr02	19198280	AA	GG	GG	INTERGENIC			
SNP_9068_A_19215675	NC_021161.1	Ca_Kabuli_Chr02	19215675	TT	CC	CC	INTERGENIC			
SNP_9069_A_19215695	NC_021161.1	Ca_Kabuli_Chr02	19215695	TT	CC	CC	INTERGENIC			
SNP_9070_A_19216133	NC_021161.1	Ca_Kabuli_Chr02	19216133	TT	AA	AA	INTERGENIC			
SNP_9071_A_19216149	NC_021161.1	Ca_Kabuli_Chr02	19216149	GG	AA	AA	INTERGENIC			
SNP_9073_A_19219073	NC_021161.1	Ca_Kabuli_Chr02	19219073	GG	AA	AA	INTERGENIC			
SNP_9074_A_19219080	NC_021161.1	Ca_Kabuli_Chr02	19219080	GG	TT	TT	INTERGENIC			
SNP_9075_A_19222622	NC_021161.1	Ca_Kabuli_Chr02	19222622	CC	AA	AA	INTERGENIC			
SNP_9076_A_19225388	NC_021161.1	Ca_Kabuli_Chr02	19225388	CC	TT	TT	INTERGENIC			
SNP_9077_A_19251580	NC_021161.1	Ca_Kabuli_Chr02	19251580	AA	TT	TT	INTERGENIC			
SNP_9078_A_19251940	NC_021161.1	Ca_Kabuli_Chr02	19251940	GG	AA	AA	INTERGENIC			
SNP_9079_A_19281257	NC_021161.1	Ca_Kabuli_Chr02	19281257	AA	CC	CC	INTERGENIC			
SNP_9080_A_19283963	NC_021161.1	Ca_Kabuli_Chr02	19283963	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9081_A_19312593	NC_021161.1	Ca_Kabuli_Chr02	19312593	AA	CC	CC	INTERGENIC		
SNP_9082_A_19314605	NC_021161.1	Ca_Kabuli_Chr02	19314605	TT	AA	AA	INTERGENIC		
SNP_9083_A_19314641	NC_021161.1	Ca_Kabuli_Chr02	19314641	AA	GG	GG	INTERGENIC		
SNP_9084_A_19314681	NC_021161.1	Ca_Kabuli_Chr02	19314681	TT	GG	GG	INTERGENIC		
SNP_9085_A_19326528	NC_021161.1	Ca_Kabuli_Chr02	19326528	CC	AA	AA	INTERGENIC		
SNP_9086_A_19326624	NC_021161.1	Ca_Kabuli_Chr02	19326624	TT	CC	CC	INTERGENIC		
SNP_9087_A_19327297	NC_021161.1	Ca_Kabuli_Chr02	19327297	GG	AA	AA	INTERGENIC		
SNP_9088_A_19402736	NC_021161.1	Ca_Kabuli_Chr02	19402736	GG	CC	CC	INTERGENIC		
SNP_9089_A_19447731	NC_021161.1	Ca_Kabuli_Chr02	19447731	CC	AA	AA	INTERGENIC		
SNP_9090_A_19461456	NC_021161.1	Ca_Kabuli_Chr02	19461456	CC	TT	TT	INTERGENIC		
SNP_9091_A_19465833	NC_021161.1	Ca_Kabuli_Chr02	19465833	GG	TT	TT	DRR	101495721	aminoacylase-1-like
SNP_9092_A_19483164	NC_021161.1	Ca_Kabuli_Chr02	19483164	CC	GG	GG	INTERGENIC		
SNP_9093_A_19500858	NC_021161.1	Ca_Kabuli_Chr02	19500858	CC	GG	GG	INTERGENIC		
SNP_9094_A_19501270	NC_021161.1	Ca_Kabuli_Chr02	19501270	AA	CC	CC	INTERGENIC		
SNP_9095_A_19501464	NC_021161.1	Ca_Kabuli_Chr02	19501464	GG	TT	TT	INTERGENIC		
SNP_9096_A_19501669	NC_021161.1	Ca_Kabuli_Chr02	19501669	TT	AA	AA	INTERGENIC		
SNP_9097_A_19501682	NC_021161.1	Ca_Kabuli_Chr02	19501682	TT	AA	AA	INTERGENIC		
SNP_9098_A_19516490	NC_021161.1	Ca_Kabuli_Chr02	19516490	AA	TT	TT	INTERGENIC		
SNP_9099_A_19516537	NC_021161.1	Ca_Kabuli_Chr02	19516537	TT	CC	CC	INTERGENIC		
SNP_9100_A_19516614	NC_021161.1	Ca_Kabuli_Chr02	19516614	CC	AA	AA	INTERGENIC		
SNP_9101_A_19516618	NC_021161.1	Ca_Kabuli_Chr02	19516618	GG	AA	AA	INTERGENIC		
SNP_9102_A_19516682	NC_021161.1	Ca_Kabuli_Chr02	19516682	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9103_A_19516714	NC_021161.1	Ca_Kabuli_Chr02	19516714	AA	GG	GG	INTERGENIC			
SNP_9104_A_19516732	NC_021161.1	Ca_Kabuli_Chr02	19516732	AA	TT	TT	INTERGENIC			
SNP_9105_A_19516741	NC_021161.1	Ca_Kabuli_Chr02	19516741	CC	AA	AA	INTERGENIC			
SNP_9106_A_19516742	NC_021161.1	Ca_Kabuli_Chr02	19516742	AA	TT	TT	INTERGENIC			
SNP_9107_A_19516771	NC_021161.1	Ca_Kabuli_Chr02	19516771	AA	CC	CC	INTERGENIC			
SNP_9108_A_19517140	NC_021161.1	Ca_Kabuli_Chr02	19517140	GG	AA	AA	INTERGENIC			
SNP_9109_A_19517421	NC_021161.1	Ca_Kabuli_Chr02	19517421	CC	AA	AA	INTERGENIC			
SNP_9110_A_19517439	NC_021161.1	Ca_Kabuli_Chr02	19517439	AA	TT	TT	INTERGENIC			
SNP_9111_A_19518007	NC_021161.1	Ca_Kabuli_Chr02	19518007	TT	AA	AA	INTERGENIC			
SNP_9112_A_19524025	NC_021161.1	Ca_Kabuli_Chr02	19524025	CC	TT	TT	INTERGENIC			
SNP_9113_A_19528664	NC_021161.1	Ca_Kabuli_Chr02	19528664	GG	AA	AA	INTERGENIC			
SNP_9114_A_19530036	NC_021161.1	Ca_Kabuli_Chr02	19530036	GG	AA	AA	INTERGENIC			
SNP_9115_A_19538493	NC_021161.1	Ca_Kabuli_Chr02	19538493	GG	CC	CC	INTERGENIC			
SNP_9116_A_19559046	NC_021161.1	Ca_Kabuli_Chr02	19559046	TT	AA	AA	INTERGENIC			
SNP_9117_A_19570572	NC_021161.1	Ca_Kabuli_Chr02	19570572	AA	CC	CC	INTERGENIC			
SNP_9118_A_19570589	NC_021161.1	Ca_Kabuli_Chr02	19570589	TT	CC	CC	INTERGENIC			
SNP_9119_A_19570811	NC_021161.1	Ca_Kabuli_Chr02	19570811	AA	GG	GG	INTERGENIC			
SNP_9120_A_19571170	NC_021161.1	Ca_Kabuli_Chr02	19571170	GG	TT	TT	INTERGENIC			
SNP_9121_A_19590210	NC_021161.1	Ca_Kabuli_Chr02	19590210	TT	CC	CC	INTERGENIC			
SNP_9122_A_19590522	NC_021161.1	Ca_Kabuli_Chr02	19590522	GG	CC	CC	INTERGENIC			
SNP_9123_A_19602728	NC_021161.1	Ca_Kabuli_Chr02	19602728	CC	GG	GG	INTERGENIC			
SNP_9124_A_19602794	NC_021161.1	Ca_Kabuli_Chr02	19602794	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9125_A_19602813	NC_021161.1	Ca_Kabuli_Chr02	19602813	GG	TT	TT	INTERGENIC			
SNP_9126_A_19602862	NC_021161.1	Ca_Kabuli_Chr02	19602862	TT	AA	AA	INTERGENIC			
SNP_9127_A_19603085	NC_021161.1	Ca_Kabuli_Chr02	19603085	GG	AA	AA	INTERGENIC			
SNP_9128_A_19603097	NC_021161.1	Ca_Kabuli_Chr02	19603097	GG	AA	AA	INTERGENIC			
SNP_9129_A_19603219	NC_021161.1	Ca_Kabuli_Chr02	19603219	AA	GG	GG	INTERGENIC			
SNP_9130_A_19603231	NC_021161.1	Ca_Kabuli_Chr02	19603231	TT	CC	CC	INTERGENIC			
SNP_9131_A_19603243	NC_021161.1	Ca_Kabuli_Chr02	19603243	TT	CC	CC	INTERGENIC			
SNP_9132_A_19604640	NC_021161.1	Ca_Kabuli_Chr02	19604640	AA	TT	TT	INTERGENIC			
SNP_9133_A_19614819	NC_021161.1	Ca_Kabuli_Chr02	19614819	AA	CC	CC	INTERGENIC			
SNP_9134_A_19617390	NC_021161.1	Ca_Kabuli_Chr02	19617390	AA	GG	GG	INTERGENIC			
SNP_9135_A_19620942	NC_021161.1	Ca_Kabuli_Chr02	19620942	TT	GG	GG	INTERGENIC			
SNP_9136_A_19646159	NC_021161.1	Ca_Kabuli_Chr02	19646159	TT	AA	AA	INTERGENIC			
SNP_9137_A_19646162	NC_021161.1	Ca_Kabuli_Chr02	19646162	TT	CC	CC	INTERGENIC			
SNP_9138_A_19652479	NC_021161.1	Ca_Kabuli_Chr02	19652479	TT	CC	CC	INTERGENIC			
SNP_9139_A_19652501	NC_021161.1	Ca_Kabuli_Chr02	19652501	TT	CC	CC	INTERGENIC			
SNP_9140_A_19652524	NC_021161.1	Ca_Kabuli_Chr02	19652524	CC	TT	TT	INTERGENIC			
SNP_9141_A_19652935	NC_021161.1	Ca_Kabuli_Chr02	19652935	TT	CC	CC	INTERGENIC			
SNP_9142_A_19653215	NC_021161.1	Ca_Kabuli_Chr02	19653215	GG	AA	AA	INTERGENIC			
SNP_9143_A_19667301	NC_021161.1	Ca_Kabuli_Chr02	19667301	GG	AA	AA	INTERGENIC			
SNP_9145_A_19706030	NC_021161.1	Ca_Kabuli_Chr02	19706030	AA	CC	CC	INTERGENIC			
SNP_9146_A_19728633	NC_021161.1	Ca_Kabuli_Chr02	19728633	GG	AA	AA	INTERGENIC			
SNP_9147_A_19728776	NC_021161.1	Ca_Kabuli_Chr02	19728776	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9148_A_19767952	NC_021161.1	Ca_Kabuli_Chr02	19767952	AA	GG	GG	INTERGENIC		
SNP_9149_A_19768096	NC_021161.1	Ca_Kabuli_Chr02	19768096	TT	AA	AA	INTERGENIC		
SNP_9150_A_19768142	NC_021161.1	Ca_Kabuli_Chr02	19768142	CC	TT	TT	INTERGENIC		
SNP_9151_A_19768217	NC_021161.1	Ca_Kabuli_Chr02	19768217	AA	GG	GG	INTERGENIC		
SNP_9152_A_19768394	NC_021161.1	Ca_Kabuli_Chr02	19768394	AA	GG	GG	INTERGENIC		
SNP_9153_A_19769243	NC_021161.1	Ca_Kabuli_Chr02	19769243	AA	GG	GG	DRR	101501018	Unknown function
SNP_9154_A_19769320	NC_021161.1	Ca_Kabuli_Chr02	19769320	AA	CC	CC	DRR	101501018	Unknown function
SNP_9155_A_19769347	NC_021161.1	Ca_Kabuli_Chr02	19769347	CC	TT	TT	DRR	101501018	Unknown function
SNP_9156_A_19769453	NC_021161.1	Ca_Kabuli_Chr02	19769453	GG	AA	AA	DRR	101501018	Unknown function
SNP_9157_A_19769456	NC_021161.1	Ca_Kabuli_Chr02	19769456	CC	TT	TT	DRR	101501018	Unknown function
SNP_9158_A_19769528	NC_021161.1	Ca_Kabuli_Chr02	19769528	GG	AA	AA	DRR	101501018	Unknown function
SNP_9160_A_19769771	NC_021161.1	Ca_Kabuli_Chr02	19769771	GG	AA	AA	DRR	101501018	Unknown function
SNP_9161_A_19772423	NC_021161.1	Ca_Kabuli_Chr02	19772423	TT	CC	CC	URR	101501018	Unknown function
SNP_9162_A_19772482	NC_021161.1	Ca_Kabuli_Chr02	19772482	CC	TT	TT	URR	101501018	Unknown function
SNP_9163_A_19772550	NC_021161.1	Ca_Kabuli_Chr02	19772550	AA	CC	CC	URR	101501018	Unknown function
SNP_9164_A_19772773	NC_021161.1	Ca_Kabuli_Chr02	19772773	TT	GG	GG	URR	101501018	Unknown function
SNP_9165_A_19772802	NC_021161.1	Ca_Kabuli_Chr02	19772802	AA	GG	GG	URR	101501018	Unknown function
SNP_9166_A_19791497	NC_021161.1	Ca_Kabuli_Chr02	19791497	TT	GG	GG	INTERGENIC		
SNP_9168_A_19791817	NC_021161.1	Ca_Kabuli_Chr02	19791817	TT	GG	GG	INTERGENIC		
SNP_9169_A_19792024	NC_021161.1	Ca_Kabuli_Chr02	19792024	CC	AA	AA	INTERGENIC		
SNP_9170_A_19792025	NC_021161.1	Ca_Kabuli_Chr02	19792025	AA	CC	CC	INTERGENIC		
SNP_9171_A_19792187	NC_021161.1	Ca_Kabuli_Chr02	19792187	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9172_A_19792192	NC_021161.1	Ca_Kabuli_Chr02	19792192	TT	GG	GG	INTERGENIC			
SNP_9173_A_19792205	NC_021161.1	Ca_Kabuli_Chr02	19792205	AA	TT	TT	INTERGENIC			
SNP_9174_A_19792206	NC_021161.1	Ca_Kabuli_Chr02	19792206	AA	GG	GG	INTERGENIC			
SNP_9175_A_19825207	NC_021161.1	Ca_Kabuli_Chr02	19825207	TT	GG	GG	INTERGENIC			
SNP_9176_A_19872860	NC_021161.1	Ca_Kabuli_Chr02	19872860	AA	TT	TT	INTERGENIC			
SNP_9179_A_19894336	NC_021161.1	Ca_Kabuli_Chr02	19894336	GG	CC	CC	INTERGENIC			
SNP_9180_A_19894346	NC_021161.1	Ca_Kabuli_Chr02	19894346	GG	AA	AA	INTERGENIC			
SNP_9181_A_19894353	NC_021161.1	Ca_Kabuli_Chr02	19894353	AA	GG	GG	INTERGENIC			
SNP_9182_A_19904010	NC_021161.1	Ca_Kabuli_Chr02	19904010	CC	TT	TT	INTERGENIC			
SNP_9183_A_19927064	NC_021161.1	Ca_Kabuli_Chr02	19927064	AA	TT	TT	INTERGENIC			
SNP_9184_A_19927081	NC_021161.1	Ca_Kabuli_Chr02	19927081	TT	CC	CC	INTERGENIC			
SNP_9185_A_19927263	NC_021161.1	Ca_Kabuli_Chr02	19927263	CC	TT	TT	INTERGENIC			
SNP_9186_A_19927534	NC_021161.1	Ca_Kabuli_Chr02	19927534	TT	CC	CC	INTERGENIC			
SNP_9187_A_19971784	NC_021161.1	Ca_Kabuli_Chr02	19971784	CC	TT	TT	INTERGENIC			
SNP_9188_A_20069520	NC_021161.1	Ca_Kabuli_Chr02	20069520	AA	GG	GG	INTERGENIC			
SNP_9189_A_20069535	NC_021161.1	Ca_Kabuli_Chr02	20069535	AA	GG	GG	INTERGENIC			
SNP_9190_A_20069542	NC_021161.1	Ca_Kabuli_Chr02	20069542	AA	CC	CC	INTERGENIC			
SNP_9192_A_20069645	NC_021161.1	Ca_Kabuli_Chr02	20069645	GG	AA	AA	INTERGENIC			
SNP_9193_A_20069702	NC_021161.1	Ca_Kabuli_Chr02	20069702	GG	AA	AA	INTERGENIC			
SNP_9194_A_20074904	NC_021161.1	Ca_Kabuli_Chr02	20074904	GG	AA	AA	INTERGENIC			
SNP_9195_A_20074944	NC_021161.1	Ca_Kabuli_Chr02	20074944	CC	TT	TT	INTERGENIC			
SNP_9196_A_20078275	NC_021161.1	Ca_Kabuli_Chr02	20078275	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9197_A_20084229	NC_021161.1	Ca_Kabuli_Chr02	20084229	TT	AA	AA	INTERGENIC			
SNP_9198_A_20085991	NC_021161.1	Ca_Kabuli_Chr02	20085991	AA	GG	GG	INTERGENIC			
SNP_9199_A_20087699	NC_021161.1	Ca_Kabuli_Chr02	20087699	AA	GG	GG	INTERGENIC			
SNP_9200_A_20088019	NC_021161.1	Ca_Kabuli_Chr02	20088019	GG	AA	AA	INTERGENIC			
SNP_9201_A_20088108	NC_021161.1	Ca_Kabuli_Chr02	20088108	AA	GG	GG	INTERGENIC			
SNP_9202_A_20088146	NC_021161.1	Ca_Kabuli_Chr02	20088146	TT	CC	CC	INTERGENIC			
SNP_9203_A_20088176	NC_021161.1	Ca_Kabuli_Chr02	20088176	CC	AA	AA	INTERGENIC			
SNP_9204_A_20088479	NC_021161.1	Ca_Kabuli_Chr02	20088479	AA	GG	GG	INTERGENIC			
SNP_9205_A_20144409	NC_021161.1	Ca_Kabuli_Chr02	20144409	CC	GG	GG	INTERGENIC			
SNP_9206_A_20150952	NC_021161.1	Ca_Kabuli_Chr02	20150952	GG	AA	AA	INTERGENIC			
SNP_9207_A_20151212	NC_021161.1	Ca_Kabuli_Chr02	20151212	TT	AA	AA	INTERGENIC			
SNP_9208_A_20151779	NC_021161.1	Ca_Kabuli_Chr02	20151779	GG	AA	AA	INTERGENIC			
SNP_9209_A_20151811	NC_021161.1	Ca_Kabuli_Chr02	20151811	TT	AA	AA	INTERGENIC			
SNP_9210_A_20151849	NC_021161.1	Ca_Kabuli_Chr02	20151849	AA	GG	GG	INTERGENIC			
SNP_9211_A_20151865	NC_021161.1	Ca_Kabuli_Chr02	20151865	GG	AA	AA	INTERGENIC			
SNP_9212_A_20151878	NC_021161.1	Ca_Kabuli_Chr02	20151878	AA	TT	TT	INTERGENIC			
SNP_9213_A_20151988	NC_021161.1	Ca_Kabuli_Chr02	20151988	TT	CC	CC	INTERGENIC			
SNP_9214_A_20152532	NC_021161.1	Ca_Kabuli_Chr02	20152532	GG	TT	TT	INTERGENIC			
SNP_9215_A_20153101	NC_021161.1	Ca_Kabuli_Chr02	20153101	GG	AA	AA	INTERGENIC			
SNP_9216_A_20153487	NC_021161.1	Ca_Kabuli_Chr02	20153487	CC	TT	TT	INTERGENIC			
SNP_9217_A_20153803	NC_021161.1	Ca_Kabuli_Chr02	20153803	CC	TT	TT	INTERGENIC			
SNP_9218_A_20155366	NC_021161.1	Ca_Kabuli_Chr02	20155366	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9219_A_20166203	NC_021161.1	Ca_Kabuli_Chr02	20166203	AA	GG	GG	INTERGENIC			
SNP_9220_A_20171788	NC_021161.1	Ca_Kabuli_Chr02	20171788	AA	TT	TT	INTERGENIC			
SNP_9221_A_20171798	NC_021161.1	Ca_Kabuli_Chr02	20171798	TT	AA	AA	INTERGENIC			
SNP_9222_A_20171807	NC_021161.1	Ca_Kabuli_Chr02	20171807	CC	TT	TT	INTERGENIC			
SNP_9223_A_20176382	NC_021161.1	Ca_Kabuli_Chr02	20176382	GG	AA	AA	INTERGENIC			
SNP_9224_A_20177692	NC_021161.1	Ca_Kabuli_Chr02	20177692	TT	CC	CC	INTERGENIC			
SNP_9225_A_20177903	NC_021161.1	Ca_Kabuli_Chr02	20177903	CC	TT	TT	INTERGENIC			
SNP_9226_A_20178169	NC_021161.1	Ca_Kabuli_Chr02	20178169	GG	CC	CC	INTERGENIC			
SNP_9227_A_20191468	NC_021161.1	Ca_Kabuli_Chr02	20191468	TT	CC	CC	INTERGENIC			
SNP_9228_A_20191667	NC_021161.1	Ca_Kabuli_Chr02	20191667	AA	CC	CC	INTERGENIC			
SNP_9229_A_20191716	NC_021161.1	Ca_Kabuli_Chr02	20191716	AA	GG	GG	INTERGENIC			
SNP_9230_A_20191809	NC_021161.1	Ca_Kabuli_Chr02	20191809	TT	CC	CC	INTERGENIC			
SNP_9231_A_20191906	NC_021161.1	Ca_Kabuli_Chr02	20191906	TT	CC	CC	INTERGENIC			
SNP_9232_A_20191911	NC_021161.1	Ca_Kabuli_Chr02	20191911	GG	AA	AA	INTERGENIC			
SNP_9233_A_20192073	NC_021161.1	Ca_Kabuli_Chr02	20192073	GG	AA	AA	INTERGENIC			
SNP_9234_A_20192087	NC_021161.1	Ca_Kabuli_Chr02	20192087	CC	TT	TT	INTERGENIC			
SNP_9235_A_20192088	NC_021161.1	Ca_Kabuli_Chr02	20192088	GG	TT	TT	INTERGENIC			
SNP_9236_A_20192175	NC_021161.1	Ca_Kabuli_Chr02	20192175	TT	CC	CC	INTERGENIC			
SNP_9237_A_20192176	NC_021161.1	Ca_Kabuli_Chr02	20192176	TT	CC	CC	INTERGENIC			
SNP_9238_A_20192196	NC_021161.1	Ca_Kabuli_Chr02	20192196	GG	TT	TT	INTERGENIC			
SNP_9239_A_20197084	NC_021161.1	Ca_Kabuli_Chr02	20197084	CC	AA	AA	INTERGENIC			
SNP_9240_A_20208394	NC_021161.1	Ca_Kabuli_Chr02	20208394	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9241_A_20210466	NC_021161.1	Ca_Kabuli_Chr02	20210466	CC	TT	TT	INTERGENIC		
SNP_9242_A_20210728	NC_021161.1	Ca_Kabuli_Chr02	20210728	TT	AA	AA	INTERGENIC		
SNP_9243_A_20235128	NC_021161.1	Ca_Kabuli_Chr02	20235128	AA	TT	TT	INTERGENIC		
SNP_9245_A_20321668	NC_021161.1	Ca_Kabuli_Chr02	20321668	AA	TT	TT	INTERGENIC		
SNP_9246_A_20353213	NC_021161.1	Ca_Kabuli_Chr02	20353213	CC	TT	TT	INTERGENIC		
SNP_9247_A_20353217	NC_021161.1	Ca_Kabuli_Chr02	20353217	TT	AA	AA	INTERGENIC		
SNP_9248_A_20353233	NC_021161.1	Ca_Kabuli_Chr02	20353233	AA	GG	GG	INTERGENIC		
SNP_9249_A_20353286	NC_021161.1	Ca_Kabuli_Chr02	20353286	AA	GG	GG	INTERGENIC		
SNP_9250_A_20353565	NC_021161.1	Ca_Kabuli_Chr02	20353565	CC	GG	GG	INTERGENIC		
SNP_9252_A_20424450	NC_021161.1	Ca_Kabuli_Chr02	20424450	CC	TT	TT	INTERGENIC		
SNP_9253_A_20424875	NC_021161.1	Ca_Kabuli_Chr02	20424875	AA	GG	GG	INTERGENIC		
SNP_9255_A_20453797	NC_021161.1	Ca_Kabuli_Chr02	20453797	GG	AA	AA	INTRON	101504223	nodulin-26-like
SNP_9256_A_20453798	NC_021161.1	Ca_Kabuli_Chr02	20453798	TT	CC	CC	INTRON	101504223	nodulin-26-like
SNP_9257_A_20453806	NC_021161.1	Ca_Kabuli_Chr02	20453806	GG	AA	AA	INTRON	101504223	nodulin-26-like
SNP_9258_A_20474582	NC_021161.1	Ca_Kabuli_Chr02	20474582	AA	CC	CC	INTERGENIC		
SNP_9259_A_20474887	NC_021161.1	Ca_Kabuli_Chr02	20474887	CC	GG	GG	INTERGENIC		
SNP_9260_A_20479799	NC_021161.1	Ca_Kabuli_Chr02	20479799	TT	CC	CC	INTERGENIC		
SNP_9261_A_20490380	NC_021161.1	Ca_Kabuli_Chr02	20490380	GG	AA	AA	INTERGENIC		
SNP_9262_A_20490402	NC_021161.1	Ca_Kabuli_Chr02	20490402	AA	GG	GG	INTERGENIC		
SNP_9263_A_20490410	NC_021161.1	Ca_Kabuli_Chr02	20490410	TT	CC	CC	INTERGENIC		
SNP_9264_A_20490458	NC_021161.1	Ca_Kabuli_Chr02	20490458	AA	GG	GG	INTERGENIC		
SNP_9265_A_20490474	NC_021161.1	Ca_Kabuli_Chr02	20490474	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9266_A_20490476	NC_021161.1	Ca_Kabuli_Chr02	20490476	AA	GG	GG	INTERGENIC			
SNP_9267_A_20490485	NC_021161.1	Ca_Kabuli_Chr02	20490485	TT	CC	CC	INTERGENIC			
SNP_9268_A_20490509	NC_021161.1	Ca_Kabuli_Chr02	20490509	AA	TT	TT	INTERGENIC			
SNP_9269_A_20490515	NC_021161.1	Ca_Kabuli_Chr02	20490515	GG	AA	AA	INTERGENIC			
SNP_9270_A_20490587	NC_021161.1	Ca_Kabuli_Chr02	20490587	AA	GG	GG	INTERGENIC			
SNP_9271_A_20490601	NC_021161.1	Ca_Kabuli_Chr02	20490601	AA	GG	GG	INTERGENIC			
SNP_9272_A_20490794	NC_021161.1	Ca_Kabuli_Chr02	20490794	CC	TT	TT	INTERGENIC			
SNP_9273_A_20490840	NC_021161.1	Ca_Kabuli_Chr02	20490840	GG	AA	AA	INTERGENIC			
SNP_9274_A_20490963	NC_021161.1	Ca_Kabuli_Chr02	20490963	AA	TT	TT	INTERGENIC			
SNP_9275_A_20490971	NC_021161.1	Ca_Kabuli_Chr02	20490971	CC	AA	AA	INTERGENIC			
SNP_9276_A_20493637	NC_021161.1	Ca_Kabuli_Chr02	20493637	CC	TT	TT	INTERGENIC			
SNP_9277_A_20493772	NC_021161.1	Ca_Kabuli_Chr02	20493772	CC	TT	TT	INTERGENIC			
SNP_9278_A_20493778	NC_021161.1	Ca_Kabuli_Chr02	20493778	TT	CC	CC	INTERGENIC			
SNP_9279_A_20493782	NC_021161.1	Ca_Kabuli_Chr02	20493782	AA	GG	GG	INTERGENIC			
SNP_9280_A_20493784	NC_021161.1	Ca_Kabuli_Chr02	20493784	AA	GG	GG	INTERGENIC			
SNP_9281_A_20563210	NC_021161.1	Ca_Kabuli_Chr02	20563210	TT	AA	AA	INTERGENIC			
SNP_9282_A_20579482	NC_021161.1	Ca_Kabuli_Chr02	20579482	AA	TT	TT	INTERGENIC			
SNP_9283_A_20579513	NC_021161.1	Ca_Kabuli_Chr02	20579513	TT	GG	GG	INTERGENIC			
SNP_9284_A_20579556	NC_021161.1	Ca_Kabuli_Chr02	20579556	CC	AA	AA	INTERGENIC			
SNP_9285_A_20587506	NC_021161.1	Ca_Kabuli_Chr02	20587506	CC	TT	TT	INTERGENIC			
SNP_9286_A_20587737	NC_021161.1	Ca_Kabuli_Chr02	20587737	TT	AA	AA	INTERGENIC			
SNP_9287_A_20587744	NC_021161.1	Ca_Kabuli_Chr02	20587744	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9288_A_20587746	NC_021161.1	Ca_Kabuli_Chr02	20587746	AA	TT	TT	INTERGENIC			
SNP_9289_A_20617151	NC_021161.1	Ca_Kabuli_Chr02	20617151	TT	AA	AA	INTERGENIC			
SNP_9290_A_20617156	NC_021161.1	Ca_Kabuli_Chr02	20617156	CC	AA	AA	INTERGENIC			
SNP_9291_A_20617171	NC_021161.1	Ca_Kabuli_Chr02	20617171	TT	CC	CC	INTERGENIC			
SNP_9292_A_20620733	NC_021161.1	Ca_Kabuli_Chr02	20620733	CC	GG	GG	INTERGENIC			
SNP_9293_A_20620745	NC_021161.1	Ca_Kabuli_Chr02	20620745	GG	CC	CC	INTERGENIC			
SNP_9294_A_20620782	NC_021161.1	Ca_Kabuli_Chr02	20620782	TT	GG	GG	INTERGENIC			
SNP_9295_A_20621016	NC_021161.1	Ca_Kabuli_Chr02	20621016	TT	CC	CC	INTERGENIC			
SNP_9296_A_20621082	NC_021161.1	Ca_Kabuli_Chr02	20621082	GG	AA	AA	INTERGENIC			
SNP_9297_A_20622755	NC_021161.1	Ca_Kabuli_Chr02	20622755	CC	TT	TT	INTERGENIC			
SNP_9298_A_20622774	NC_021161.1	Ca_Kabuli_Chr02	20622774	GG	TT	TT	INTERGENIC			
SNP_9299_A_20622781	NC_021161.1	Ca_Kabuli_Chr02	20622781	AA	CC	CC	INTERGENIC			
SNP_9300_A_20622995	NC_021161.1	Ca_Kabuli_Chr02	20622995	AA	GG	GG	INTERGENIC			
SNP_9301_A_20623125	NC_021161.1	Ca_Kabuli_Chr02	20623125	CC	TT	TT	INTERGENIC			
SNP_9302_A_20623137	NC_021161.1	Ca_Kabuli_Chr02	20623137	TT	GG	GG	INTERGENIC			
SNP_9303_A_20645086	NC_021161.1	Ca_Kabuli_Chr02	20645086	GG	TT	TT	INTERGENIC			
SNP_9306_A_20650162	NC_021161.1	Ca_Kabuli_Chr02	20650162	TT	GG	GG	INTERGENIC			
SNP_9307_A_20650197	NC_021161.1	Ca_Kabuli_Chr02	20650197	CC	TT	TT	INTERGENIC			
SNP_9308_A_20650234	NC_021161.1	Ca_Kabuli_Chr02	20650234	TT	CC	CC	INTERGENIC			
SNP_9309_A_20651446	NC_021161.1	Ca_Kabuli_Chr02	20651446	GG	CC	CC	INTERGENIC			
SNP_9310_A_20658258	NC_021161.1	Ca_Kabuli_Chr02	20658258	AA	CC	CC	INTERGENIC			
SNP_9311_A_20658668	NC_021161.1	Ca_Kabuli_Chr02	20658668	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9312_A_20669243	NC_021161.1	Ca_Kabuli_Chr02	20669243	TT	AA	AA	INTERGENIC		
SNP_9313_A_20680434	NC_021161.1	Ca_Kabuli_Chr02	20680434	GG	AA	AA	INTERGENIC		
SNP_9314_A_20716088	NC_021161.1	Ca_Kabuli_Chr02	20716088	TT	GG	GG	INTERGENIC		
SNP_9315_A_20716111	NC_021161.1	Ca_Kabuli_Chr02	20716111	AA	CC	CC	INTERGENIC		
SNP_9316_A_20716113	NC_021161.1	Ca_Kabuli_Chr02	20716113	TT	AA	AA	INTERGENIC		
SNP_9317_A_20716119	NC_021161.1	Ca_Kabuli_Chr02	20716119	AA	GG	GG	INTERGENIC		
SNP_9318_A_20731139	NC_021161.1	Ca_Kabuli_Chr02	20731139	AA	GG	GG	DRR	101505179	RNA-binding protein 12-like
SNP_9319_A_20779805	NC_021161.1	Ca_Kabuli_Chr02	20779805	AA	TT	TT	INTERGENIC		
SNP_9320_A_20799481	NC_021161.1	Ca_Kabuli_Chr02	20799481	TT	CC	CC	INTERGENIC		
SNP_9321_A_20799577	NC_021161.1	Ca_Kabuli_Chr02	20799577	AA	TT	TT	INTERGENIC		
SNP_9322_A_20816778	NC_021161.1	Ca_Kabuli_Chr02	20816778	CC	TT	TT	INTERGENIC		
SNP_9323_A_20907724	NC_021161.1	Ca_Kabuli_Chr02	20907724	GG	TT	TT	INTERGENIC		
SNP_9324_A_20911258	NC_021161.1	Ca_Kabuli_Chr02	20911258	AA	GG	GG	INTERGENIC		
SNP_9325_A_20931075	NC_021161.1	Ca_Kabuli_Chr02	20931075	GG	AA	AA	INTERGENIC		
SNP_9326_A_20970084	NC_021161.1	Ca_Kabuli_Chr02	20970084	GG	CC	CC	INTERGENIC		
SNP_9327_A_20970782	NC_021161.1	Ca_Kabuli_Chr02	20970782	AA	CC	CC	INTERGENIC		
SNP_9328_A_20970848	NC_021161.1	Ca_Kabuli_Chr02	20970848	TT	AA	AA	INTERGENIC		
SNP_9330_A_20971702	NC_021161.1	Ca_Kabuli_Chr02	20971702	GG	AA	AA	INTERGENIC		
SNP_9331_A_20971706	NC_021161.1	Ca_Kabuli_Chr02	20971706	TT	CC	CC	INTERGENIC		
SNP_9332_A_21000336	NC_021161.1	Ca_Kabuli_Chr02	21000336	CC	TT	TT	INTERGENIC		
SNP_9333_A_21000385	NC_021161.1	Ca_Kabuli_Chr02	21000385	AA	GG	GG	INTERGENIC		
SNP_9334_A_21000433	NC_021161.1	Ca_Kabuli_Chr02	21000433	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9335_A_21000680	NC_021161.1	Ca_Kabuli_Chr02	21000680	CC	GG	GG	INTERGENIC			
SNP_9336_A_21000717	NC_021161.1	Ca_Kabuli_Chr02	21000717	TT	GG	GG	INTERGENIC			
SNP_9337_A_21044845	NC_021161.1	Ca_Kabuli_Chr02	21044845	CC	TT	TT	INTERGENIC			
SNP_9338_A_21044895	NC_021161.1	Ca_Kabuli_Chr02	21044895	AA	TT	TT	INTERGENIC			
SNP_9339_A_21084012	NC_021161.1	Ca_Kabuli_Chr02	21084012	AA	GG	GG	INTERGENIC			
SNP_9340_A_21084394	NC_021161.1	Ca_Kabuli_Chr02	21084394	TT	CC	CC	INTERGENIC			
SNP_9341_A_21084405	NC_021161.1	Ca_Kabuli_Chr02	21084405	TT	CC	CC	INTERGENIC			
SNP_9342_A_21084433	NC_021161.1	Ca_Kabuli_Chr02	21084433	TT	CC	CC	INTERGENIC			
SNP_9343_A_21085708	NC_021161.1	Ca_Kabuli_Chr02	21085708	GG	TT	TT	INTERGENIC			
SNP_9345_A_21140208	NC_021161.1	Ca_Kabuli_Chr02	21140208	AA	GG	GG	INTERGENIC			
SNP_9346_A_21140210	NC_021161.1	Ca_Kabuli_Chr02	21140210	AA	GG	GG	INTERGENIC			
SNP_9347_A_21140224	NC_021161.1	Ca_Kabuli_Chr02	21140224	GG	AA	AA	INTERGENIC			
SNP_9348_A_21140225	NC_021161.1	Ca_Kabuli_Chr02	21140225	AA	GG	GG	INTERGENIC			
SNP_9349_A_21140699	NC_021161.1	Ca_Kabuli_Chr02	21140699	TT	AA	AA	INTERGENIC			
SNP_9350_A_21204788	NC_021161.1	Ca_Kabuli_Chr02	21204788	TT	CC	CC	INTERGENIC			
SNP_9351_A_21204817	NC_021161.1	Ca_Kabuli_Chr02	21204817	TT	CC	CC	INTERGENIC			
SNP_9352_A_21205272	NC_021161.1	Ca_Kabuli_Chr02	21205272	TT	GG	GG	INTERGENIC			
SNP_9353_A_21205324	NC_021161.1	Ca_Kabuli_Chr02	21205324	AA	GG	GG	INTERGENIC			
SNP_9354_A_21208370	NC_021161.1	Ca_Kabuli_Chr02	21208370	TT	CC	CC	INTERGENIC			
SNP_9355_A_21208376	NC_021161.1	Ca_Kabuli_Chr02	21208376	CC	TT	TT	INTERGENIC			
SNP_9356_A_21208380	NC_021161.1	Ca_Kabuli_Chr02	21208380	TT	CC	CC	INTERGENIC			
SNP_9357_A_21208385	NC_021161.1	Ca_Kabuli_Chr02	21208385	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9358_A_21208418	NC_021161.1	Ca_Kabuli_Chr02	21208418	CC	TT	TT	INTERGENIC			
SNP_9359_A_21208427	NC_021161.1	Ca_Kabuli_Chr02	21208427	GG	AA	AA	INTERGENIC			
SNP_9360_A_21208463	NC_021161.1	Ca_Kabuli_Chr02	21208463	GG	AA	AA	INTERGENIC			
SNP_9361_A_21208475	NC_021161.1	Ca_Kabuli_Chr02	21208475	CC	TT	TT	INTERGENIC			
SNP_9362_A_21208629	NC_021161.1	Ca_Kabuli_Chr02	21208629	AA	GG	GG	INTERGENIC			
SNP_9363_A_21208635	NC_021161.1	Ca_Kabuli_Chr02	21208635	TT	CC	CC	INTERGENIC			
SNP_9364_A_21208655	NC_021161.1	Ca_Kabuli_Chr02	21208655	TT	CC	CC	INTERGENIC			
SNP_9365_A_21208656	NC_021161.1	Ca_Kabuli_Chr02	21208656	CC	TT	TT	INTERGENIC			
SNP_9366_A_21208658	NC_021161.1	Ca_Kabuli_Chr02	21208658	GG	AA	AA	INTERGENIC			
SNP_9367_A_21208665	NC_021161.1	Ca_Kabuli_Chr02	21208665	AA	GG	GG	INTERGENIC			
SNP_9368_A_21208697	NC_021161.1	Ca_Kabuli_Chr02	21208697	GG	AA	AA	INTERGENIC			
SNP_9370_A_21208805	NC_021161.1	Ca_Kabuli_Chr02	21208805	AA	GG	GG	INTERGENIC			
SNP_9371_A_21208895	NC_021161.1	Ca_Kabuli_Chr02	21208895	AA	TT	TT	INTERGENIC			
SNP_9372_A_21247209	NC_021161.1	Ca_Kabuli_Chr02	21247209	AA	CC	CC	INTERGENIC			
SNP_9373_A_21271920	NC_021161.1	Ca_Kabuli_Chr02	21271920	AA	GG	GG	URR		101514204	Unknown function
SNP_9374_A_21272137	NC_021161.1	Ca_Kabuli_Chr02	21272137	AA	TT	TT	URR		101514204	Unknown function
SNP_9375_A_21272140	NC_021161.1	Ca_Kabuli_Chr02	21272140	TT	AA	AA	URR		101514204	Unknown function
SNP_9376_A_21272263	NC_021161.1	Ca_Kabuli_Chr02	21272263	AA	GG	GG	URR		101514204	Unknown function
SNP_9377_A_21303216	NC_021161.1	Ca_Kabuli_Chr02	21303216	TT	AA	AA	INTERGENIC			
SNP_9378_A_21303226	NC_021161.1	Ca_Kabuli_Chr02	21303226	AA	GG	GG	INTERGENIC			
SNP_9379_A_21303281	NC_021161.1	Ca_Kabuli_Chr02	21303281	AA	TT	TT	INTERGENIC			
SNP_9380_A_21303308	NC_021161.1	Ca_Kabuli_Chr02	21303308	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9381_A_21303360	NC_021161.1	Ca_Kabuli_Chr02	21303360	AA	GG	GG	INTERGENIC			
SNP_9382_A_21303416	NC_021161.1	Ca_Kabuli_Chr02	21303416	TT	GG	GG	INTERGENIC			
SNP_9383_A_21303447	NC_021161.1	Ca_Kabuli_Chr02	21303447	CC	TT	TT	INTERGENIC			
SNP_9384_A_21303507	NC_021161.1	Ca_Kabuli_Chr02	21303507	CC	TT	TT	INTERGENIC			
SNP_9385_A_21303510	NC_021161.1	Ca_Kabuli_Chr02	21303510	GG	AA	AA	INTERGENIC			
SNP_9386_A_21303865	NC_021161.1	Ca_Kabuli_Chr02	21303865	GG	AA	AA	INTERGENIC			
SNP_9387_A_21305085	NC_021161.1	Ca_Kabuli_Chr02	21305085	GG	AA	AA	INTERGENIC			
SNP_9388_A_21305115	NC_021161.1	Ca_Kabuli_Chr02	21305115	TT	AA	AA	INTERGENIC			
SNP_9389_A_21305146	NC_021161.1	Ca_Kabuli_Chr02	21305146	GG	AA	AA	INTERGENIC			
SNP_9390_A_21305156	NC_021161.1	Ca_Kabuli_Chr02	21305156	GG	AA	AA	INTERGENIC			
SNP_9391_A_21305159	NC_021161.1	Ca_Kabuli_Chr02	21305159	CC	TT	TT	INTERGENIC			
SNP_9392_A_21305163	NC_021161.1	Ca_Kabuli_Chr02	21305163	AA	GG	GG	INTERGENIC			
SNP_9393_A_21305174	NC_021161.1	Ca_Kabuli_Chr02	21305174	AA	GG	GG	INTERGENIC			
SNP_9394_A_21305674	NC_021161.1	Ca_Kabuli_Chr02	21305674	AA	CC	CC	INTERGENIC			
SNP_9396_A_21308765	NC_021161.1	Ca_Kabuli_Chr02	21308765	TT	GG	GG	INTERGENIC			
SNP_9397_A_21308797	NC_021161.1	Ca_Kabuli_Chr02	21308797	GG	AA	AA	INTERGENIC			
SNP_9398_A_21308948	NC_021161.1	Ca_Kabuli_Chr02	21308948	CC	TT	TT	INTERGENIC			
SNP_9399_A_21309174	NC_021161.1	Ca_Kabuli_Chr02	21309174	AA	TT	TT	INTERGENIC			
SNP_9400_A_21309198	NC_021161.1	Ca_Kabuli_Chr02	21309198	AA	CC	CC	INTERGENIC			
SNP_9401_A_21309378	NC_021161.1	Ca_Kabuli_Chr02	21309378	CC	AA	AA	INTERGENIC			
SNP_9402_A_21309467	NC_021161.1	Ca_Kabuli_Chr02	21309467	AA	TT	TT	INTERGENIC			
SNP_9403_A_21309512	NC_021161.1	Ca_Kabuli_Chr02	21309512	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9404_A_21309613	NC_021161.1	Ca_Kabuli_Chr02	21309613	AA	GG	GG	INTERGENIC			
SNP_9405_A_21310027	NC_021161.1	Ca_Kabuli_Chr02	21310027	TT	CC	CC	INTERGENIC			
SNP_9406_A_21310041	NC_021161.1	Ca_Kabuli_Chr02	21310041	TT	CC	CC	INTERGENIC			
SNP_9407_A_21310066	NC_021161.1	Ca_Kabuli_Chr02	21310066	GG	AA	AA	INTERGENIC			
SNP_9408_A_21310088	NC_021161.1	Ca_Kabuli_Chr02	21310088	TT	CC	CC	INTERGENIC			
SNP_9409_A_21310624	NC_021161.1	Ca_Kabuli_Chr02	21310624	TT	AA	AA	INTERGENIC			
SNP_9410_A_21310638	NC_021161.1	Ca_Kabuli_Chr02	21310638	CC	TT	TT	INTERGENIC			
SNP_9411_A_21312134	NC_021161.1	Ca_Kabuli_Chr02	21312134	GG	AA	AA	INTERGENIC			
SNP_9413_A_21313567	NC_021161.1	Ca_Kabuli_Chr02	21313567	AA	CC	CC	INTERGENIC			
SNP_9414_A_21314076	NC_021161.1	Ca_Kabuli_Chr02	21314076	GG	CC	CC	INTERGENIC			
SNP_9415_A_21314192	NC_021161.1	Ca_Kabuli_Chr02	21314192	CC	TT	TT	INTERGENIC			
SNP_9417_A_21314644	NC_021161.1	Ca_Kabuli_Chr02	21314644	TT	GG	GG	INTERGENIC			
SNP_9418_A_21314952	NC_021161.1	Ca_Kabuli_Chr02	21314952	AA	TT	TT	INTERGENIC			
SNP_9419_A_21314992	NC_021161.1	Ca_Kabuli_Chr02	21314992	AA	TT	TT	INTERGENIC			
SNP_9420_A_21315061	NC_021161.1	Ca_Kabuli_Chr02	21315061	AA	TT	TT	INTERGENIC			
SNP_9421_A_21315322	NC_021161.1	Ca_Kabuli_Chr02	21315322	AA	GG	GG	INTERGENIC			
SNP_9422_A_21315386	NC_021161.1	Ca_Kabuli_Chr02	21315386	TT	AA	AA	INTERGENIC			
SNP_9423_A_21315644	NC_021161.1	Ca_Kabuli_Chr02	21315644	AA	TT	TT	INTERGENIC			
SNP_9424_A_21317521	NC_021161.1	Ca_Kabuli_Chr02	21317521	AA	GG	GG	INTERGENIC			
SNP_9425_A_21318214	NC_021161.1	Ca_Kabuli_Chr02	21318214	TT	CC	CC	INTERGENIC			
SNP_9426_A_21318506	NC_021161.1	Ca_Kabuli_Chr02	21318506	TT	GG	GG	INTERGENIC			
SNP_9427_A_21318936	NC_021161.1	Ca_Kabuli_Chr02	21318936	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9428_A_21319310	NC_021161.1	Ca_Kabuli_Chr02	21319310	CC	AA	AA	INTERGENIC		
SNP_9429_A_21321298	NC_021161.1	Ca_Kabuli_Chr02	21321298	AA	CC	CC	INTERGENIC		
SNP_9430_A_21321583	NC_021161.1	Ca_Kabuli_Chr02	21321583	GG	AA	AA	INTERGENIC		
SNP_9431_A_21321727	NC_021161.1	Ca_Kabuli_Chr02	21321727	AA	GG	GG	INTERGENIC		
SNP_9432_A_21324561	NC_021161.1	Ca_Kabuli_Chr02	21324561	AA	GG	GG	INTERGENIC		
SNP_9433_A_21324564	NC_021161.1	Ca_Kabuli_Chr02	21324564	GG	AA	AA	INTERGENIC		
SNP_9434_A_21366242	NC_021161.1	Ca_Kabuli_Chr02	21366242	TT	CC	CC	INTRON	101512369	chaperone protein dnaJ 1, mitochondrial
SNP_9435_A_21494900	NC_021161.1	Ca_Kabuli_Chr02	21494900	CC	AA	AA	INTERGENIC		
SNP_9436_A_21524332	NC_021161.1	Ca_Kabuli_Chr02	21524332	CC	GG	GG	INTERGENIC		
SNP_9437_A_21524427	NC_021161.1	Ca_Kabuli_Chr02	21524427	TT	GG	GG	INTERGENIC		
SNP_9438_A_21524440	NC_021161.1	Ca_Kabuli_Chr02	21524440	AA	GG	GG	INTERGENIC		
SNP_9439_A_21524454	NC_021161.1	Ca_Kabuli_Chr02	21524454	GG	CC	CC	INTERGENIC		
SNP_9440_A_21528182	NC_021161.1	Ca_Kabuli_Chr02	21528182	AA	GG	GG	INTERGENIC		
SNP_9441_A_21536027	NC_021161.1	Ca_Kabuli_Chr02	21536027	GG	AA	AA	INTERGENIC		
SNP_9442_A_21536461	NC_021161.1	Ca_Kabuli_Chr02	21536461	AA	GG	GG	INTERGENIC		
SNP_9443_A_21537510	NC_021161.1	Ca_Kabuli_Chr02	21537510	CC	TT	TT	INTERGENIC		
SNP_9444_A_21537511	NC_021161.1	Ca_Kabuli_Chr02	21537511	TT	CC	CC	INTERGENIC		
SNP_9445_A_21537513	NC_021161.1	Ca_Kabuli_Chr02	21537513	CC	TT	TT	INTERGENIC		
SNP_9446_A_21537517	NC_021161.1	Ca_Kabuli_Chr02	21537517	GG	AA	AA	INTERGENIC		
SNP_9447_A_21537521	NC_021161.1	Ca_Kabuli_Chr02	21537521	CC	TT	TT	INTERGENIC		
SNP_9448_A_21537524	NC_021161.1	Ca_Kabuli_Chr02	21537524	TT	GG	GG	INTERGENIC		
SNP_9449_A_21537922	NC_021161.1	Ca_Kabuli_Chr02	21537922	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9450_A_21537944	NC_021161.1	Ca_Kabuli_Chr02	21537944	AA	GG	GG	INTERGENIC		
SNP_9451_A_21538526	NC_021161.1	Ca_Kabuli_Chr02	21538526	AA	GG	GG	INTERGENIC		
SNP_9452_A_21538559	NC_021161.1	Ca_Kabuli_Chr02	21538559	AA	GG	GG	INTERGENIC		
SNP_9453_A_21538652	NC_021161.1	Ca_Kabuli_Chr02	21538652	AA	GG	GG	INTERGENIC		
SNP_9454_A_21574236	NC_021161.1	Ca_Kabuli_Chr02	21574236	TT	CC	CC	INTERGENIC		
SNP_9455_A_21578262	NC_021161.1	Ca_Kabuli_Chr02	21578262	AA	GG	GG	INTERGENIC		
SNP_9456_A_21582401	NC_021161.1	Ca_Kabuli_Chr02	21582401	TT	CC	CC	INTERGENIC		
SNP_9457_A_21582437	NC_021161.1	Ca_Kabuli_Chr02	21582437	GG	AA	AA	INTERGENIC		
SNP_9458_A_21594951	NC_021161.1	Ca_Kabuli_Chr02	21594951	AA	TT	TT	URR	101488248	uncharacterized LOC101488248
SNP_9459_A_21594955	NC_021161.1	Ca_Kabuli_Chr02	21594955	TT	AA	AA	URR	101488248	uncharacterized LOC101488248
SNP_9461_A_21607736	NC_021161.1	Ca_Kabuli_Chr02	21607736	CC	TT	TT	INTERGENIC		
SNP_9463_A_21757833	NC_021161.1	Ca_Kabuli_Chr02	21757833	CC	AA	AA	URR	101492386	Unknown function
SNP_9464_A_21757845	NC_021161.1	Ca_Kabuli_Chr02	21757845	CC	TT	TT	URR	101492386	Unknown function
SNP_9465_A_21757881	NC_021161.1	Ca_Kabuli_Chr02	21757881	TT	AA	AA	URR	101492386	Unknown function
SNP_9466_A_21767611	NC_021161.1	Ca_Kabuli_Chr02	21767611	CC	TT	TT	INTRON	101489245	ribosomal RNA processing protein 36 homolog
SNP_9467_A_21767641	NC_021161.1	Ca_Kabuli_Chr02	21767641	TT	AA	AA	NON_SYNONYMOUS_CODING	101489245	ribosomal RNA processing protein 36 homolog
SNP_9468_A_21774772	NC_021161.1	Ca_Kabuli_Chr02	21774772	AA	GG	GG	INTERGENIC		
SNP_9469_A_21774779	NC_021161.1	Ca_Kabuli_Chr02	21774779	CC	TT	TT	INTERGENIC		
SNP_9470_A_21777813	NC_021161.1	Ca_Kabuli_Chr02	21777813	CC	TT	TT	INTERGENIC		
SNP_9471_A_21777815	NC_021161.1	Ca_Kabuli_Chr02	21777815	CC	TT	TT	INTERGENIC		
SNP_9472_A_21778640	NC_021161.1	Ca_Kabuli_Chr02	21778640	TT	CC	CC	INTERGENIC		
SNP_9474_A_21801809	NC_021161.1	Ca_Kabuli_Chr02	21801809	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9475_A_21902569	NC_021161.1	Ca_Kabuli_Chr02	21902569	GG	AA	AA	INTERGENIC		
SNP_9476_A_21902586	NC_021161.1	Ca_Kabuli_Chr02	21902586	TT	AA	AA	INTERGENIC		
SNP_9477_A_21902833	NC_021161.1	Ca_Kabuli_Chr02	21902833	AA	GG	GG	INTERGENIC		
SNP_9478_A_21902887	NC_021161.1	Ca_Kabuli_Chr02	21902887	AA	GG	GG	INTERGENIC		
SNP_9479_A_21902926	NC_021161.1	Ca_Kabuli_Chr02	21902926	TT	CC	CC	INTERGENIC		
SNP_9480_A_21928424	NC_021161.1	Ca_Kabuli_Chr02	21928424	AA	CC	CC	INTERGENIC		
SNP_9481_A_21929045	NC_021161.1	Ca_Kabuli_Chr02	21929045	TT	AA	AA	INTERGENIC		
SNP_9483_A_21956077	NC_021161.1	Ca_Kabuli_Chr02	21956077	TT	CC	CC	INTERGENIC		
SNP_9484_A_21956120	NC_021161.1	Ca_Kabuli_Chr02	21956120	TT	CC	CC	INTERGENIC		
SNP_9485_A_21956372	NC_021161.1	Ca_Kabuli_Chr02	21956372	CC	AA	AA	INTERGENIC		
SNP_9486_A_21998821	NC_021161.1	Ca_Kabuli_Chr02	21998821	GG	AA	AA	INTRON	101494329	uncharacterized LOC101494329
SNP_9487_A_21999067	NC_021161.1	Ca_Kabuli_Chr02	21999067	GG	AA	AA	INTRON	101494329	uncharacterized LOC101494329
SNP_9488_A_21999324	NC_021161.1	Ca_Kabuli_Chr02	21999324	GG	AA	AA	INTRON	101494329	uncharacterized LOC101494329
SNP_9489_A_21999325	NC_021161.1	Ca_Kabuli_Chr02	21999325	TT	CC	CC	INTRON	101494329	uncharacterized LOC101494329
SNP_9490_A_21999343	NC_021161.1	Ca_Kabuli_Chr02	21999343	TT	AA	AA	INTRON	101494329	uncharacterized LOC101494329
SNP_9491_A_22039146	NC_021161.1	Ca_Kabuli_Chr02	22039146	CC	TT	TT	DRR	101490764	bet1-like protein At4g14600
SNP_9492_A_22065261	NC_021161.1	Ca_Kabuli_Chr02	22065261	GG	AA	AA	INTERGENIC		
SNP_9493_A_22065308	NC_021161.1	Ca_Kabuli_Chr02	22065308	GG	CC	CC	INTERGENIC		
SNP_9494_A_22069095	NC_021161.1	Ca_Kabuli_Chr02	22069095	CC	AA	AA	INTERGENIC		
SNP_9495_A_22069827	NC_021161.1	Ca_Kabuli_Chr02	22069827	GG	AA	AA	INTERGENIC		
SNP_9496_A_22195131	NC_021161.1	Ca_Kabuli_Chr02	22195131	GG	AA	AA	INTERGENIC		
SNP_9497_A_22195132	NC_021161.1	Ca_Kabuli_Chr02	22195132	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9498_A_22195346	NC_021161.1	Ca_Kabuli_Chr02	22195346	AA	GG	GG	INTERGENIC			
SNP_9499_A_22196671	NC_021161.1	Ca_Kabuli_Chr02	22196671	TT	AA	AA	INTERGENIC			
SNP_9500_A_22202179	NC_021161.1	Ca_Kabuli_Chr02	22202179	AA	GG	GG	INTERGENIC			
SNP_9501_A_22202206	NC_021161.1	Ca_Kabuli_Chr02	22202206	GG	AA	AA	INTERGENIC			
SNP_9502_A_22202207	NC_021161.1	Ca_Kabuli_Chr02	22202207	CC	AA	AA	INTERGENIC			
SNP_9503_A_22202209	NC_021161.1	Ca_Kabuli_Chr02	22202209	TT	GG	GG	INTERGENIC			
SNP_9504_A_22202215	NC_021161.1	Ca_Kabuli_Chr02	22202215	CC	GG	GG	INTERGENIC			
SNP_9505_A_22202230	NC_021161.1	Ca_Kabuli_Chr02	22202230	CC	TT	TT	INTERGENIC			
SNP_9506_A_22202240	NC_021161.1	Ca_Kabuli_Chr02	22202240	TT	GG	GG	INTERGENIC			
SNP_9507_A_22202266	NC_021161.1	Ca_Kabuli_Chr02	22202266	TT	CC	CC	INTERGENIC			
SNP_9508_A_22202282	NC_021161.1	Ca_Kabuli_Chr02	22202282	TT	CC	CC	INTERGENIC			
SNP_9509_A_22202550	NC_021161.1	Ca_Kabuli_Chr02	22202550	CC	TT	TT	INTERGENIC			
SNP_9510_A_22202590	NC_021161.1	Ca_Kabuli_Chr02	22202590	CC	AA	AA	INTERGENIC			
SNP_9511_A_22202596	NC_021161.1	Ca_Kabuli_Chr02	22202596	CC	TT	TT	INTERGENIC			
SNP_9513_A_22284811	NC_021161.1	Ca_Kabuli_Chr02	22284811	AA	GG	GG	INTERGENIC			
SNP_9514_A_22284879	NC_021161.1	Ca_Kabuli_Chr02	22284879	CC	TT	TT	INTERGENIC			
SNP_9515_A_22285145	NC_021161.1	Ca_Kabuli_Chr02	22285145	TT	CC	CC	INTERGENIC			
SNP_9517_A_22301313	NC_021161.1	Ca_Kabuli_Chr02	22301313	TT	AA	AA	INTERGENIC			
SNP_9518_A_22334910	NC_021161.1	Ca_Kabuli_Chr02	22334910	AA	GG	GG	INTERGENIC			
SNP_9519_A_22359602	NC_021161.1	Ca_Kabuli_Chr02	22359602	GG	CC	CC	INTERGENIC			
SNP_9520_A_22359953	NC_021161.1	Ca_Kabuli_Chr02	22359953	TT	CC	CC	INTERGENIC			
SNP_9521_A_22360291	NC_021161.1	Ca_Kabuli_Chr02	22360291	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9522_A_22412192	NC_021161.1	Ca_Kabuli_Chr02	22412192	TT	CC	CC	INTERGENIC		
SNP_9523_A_22412195	NC_021161.1	Ca_Kabuli_Chr02	22412195	GG	AA	AA	INTERGENIC		
SNP_9524_A_22412209	NC_021161.1	Ca_Kabuli_Chr02	22412209	TT	GG	GG	INTERGENIC		
SNP_9525_A_22429924	NC_021161.1	Ca_Kabuli_Chr02	22429924	CC	TT	TT	INTRON	101515389	proline-rich receptor-like protein kinase PERK9
SNP_9526_A_22436069	NC_021161.1	Ca_Kabuli_Chr02	22436069	AA	TT	TT	INTRON	101515389	proline-rich receptor-like protein kinase PERK9
SNP_9527_A_22455658	NC_021161.1	Ca_Kabuli_Chr02	22455658	TT	CC	CC	INTERGENIC		
SNP_9528_A_22480535	NC_021161.1	Ca_Kabuli_Chr02	22480535	AA	TT	TT	INTERGENIC		
SNP_9529_A_22482091	NC_021161.1	Ca_Kabuli_Chr02	22482091	AA	GG	GG	INTERGENIC		
SNP_9530_A_22482461	NC_021161.1	Ca_Kabuli_Chr02	22482461	TT	GG	GG	INTERGENIC		
SNP_9531_A_22482510	NC_021161.1	Ca_Kabuli_Chr02	22482510	TT	CC	CC	INTERGENIC		
SNP_9532_A_22482511	NC_021161.1	Ca_Kabuli_Chr02	22482511	GG	AA	AA	INTERGENIC		
SNP_9533_A_22482541	NC_021161.1	Ca_Kabuli_Chr02	22482541	TT	GG	GG	INTERGENIC		
SNP_9534_A_22482559	NC_021161.1	Ca_Kabuli_Chr02	22482559	CC	AA	AA	INTERGENIC		
SNP_9535_A_22482563	NC_021161.1	Ca_Kabuli_Chr02	22482563	TT	AA	AA	INTERGENIC		
SNP_9536_A_22482569	NC_021161.1	Ca_Kabuli_Chr02	22482569	TT	CC	CC	INTERGENIC		
SNP_9537_A_22482573	NC_021161.1	Ca_Kabuli_Chr02	22482573	GG	AA	AA	INTERGENIC		
SNP_9538_A_22482889	NC_021161.1	Ca_Kabuli_Chr02	22482889	TT	CC	CC	INTERGENIC		
SNP_9539_A_22489239	NC_021161.1	Ca_Kabuli_Chr02	22489239	GG	TT	TT	INTERGENIC		
SNP_9540_A_22489240	NC_021161.1	Ca_Kabuli_Chr02	22489240	TT	CC	CC	INTERGENIC		
SNP_9541_A_22489244	NC_021161.1	Ca_Kabuli_Chr02	22489244	AA	GG	GG	INTERGENIC		
SNP_9542_A_22565512	NC_021161.1	Ca_Kabuli_Chr02	22565512	AA	TT	TT	INTERGENIC		
SNP_9543_A_22579529	NC_021161.1	Ca_Kabuli_Chr02	22579529	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9544_A_22584989	NC_021161.1	Ca_Kabuli_Chr02	22584989	AA	CC	CC	INTERGENIC			
SNP_9545_A_22584995	NC_021161.1	Ca_Kabuli_Chr02	22584995	TT	CC	CC	INTERGENIC			
SNP_9546_A_22585014	NC_021161.1	Ca_Kabuli_Chr02	22585014	AA	GG	GG	INTERGENIC			
SNP_9548_A_22585057	NC_021161.1	Ca_Kabuli_Chr02	22585057	TT	CC	CC	INTERGENIC			
SNP_9549_A_22585312	NC_021161.1	Ca_Kabuli_Chr02	22585312	TT	CC	CC	INTERGENIC			
SNP_9550_A_22585356	NC_021161.1	Ca_Kabuli_Chr02	22585356	AA	GG	GG	INTERGENIC			
SNP_9551_A_22585358	NC_021161.1	Ca_Kabuli_Chr02	22585358	AA	GG	GG	INTERGENIC			
SNP_9552_A_22585363	NC_021161.1	Ca_Kabuli_Chr02	22585363	TT	CC	CC	INTERGENIC			
SNP_9553_A_22588899	NC_021161.1	Ca_Kabuli_Chr02	22588899	TT	CC	CC	INTERGENIC			
SNP_9554_A_22608411	NC_021161.1	Ca_Kabuli_Chr02	22608411	AA	GG	GG	INTERGENIC			
SNP_9555_A_22608439	NC_021161.1	Ca_Kabuli_Chr02	22608439	TT	CC	CC	INTERGENIC			
SNP_9556_A_22642479	NC_021161.1	Ca_Kabuli_Chr02	22642479	AA	GG	GG	INTERGENIC			
SNP_9557_A_22642541	NC_021161.1	Ca_Kabuli_Chr02	22642541	GG	AA	AA	INTERGENIC			
SNP_9558_A_22643930	NC_021161.1	Ca_Kabuli_Chr02	22643930	CC	TT	TT	INTERGENIC			
SNP_9559_A_22643977	NC_021161.1	Ca_Kabuli_Chr02	22643977	GG	TT	TT	INTERGENIC			
SNP_9560_A_22643998	NC_021161.1	Ca_Kabuli_Chr02	22643998	TT	CC	CC	INTERGENIC			
SNP_9561_A_22644007	NC_021161.1	Ca_Kabuli_Chr02	22644007	AA	TT	TT	INTERGENIC			
SNP_9562_A_22644177	NC_021161.1	Ca_Kabuli_Chr02	22644177	AA	GG	GG	INTERGENIC			
SNP_9563_A_22644231	NC_021161.1	Ca_Kabuli_Chr02	22644231	AA	GG	GG	INTERGENIC			
SNP_9564_A_22644238	NC_021161.1	Ca_Kabuli_Chr02	22644238	TT	GG	GG	INTERGENIC			
SNP_9565_A_22644358	NC_021161.1	Ca_Kabuli_Chr02	22644358	CC	TT	TT	INTERGENIC			
SNP_9566_A_22644374	NC_021161.1	Ca_Kabuli_Chr02	22644374	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9567_A_22644407	NC_021161.1	Ca_Kabuli_Chr02	22644407	TT	AA	AA	INTERGENIC		
SNP_9568_A_22644431	NC_021161.1	Ca_Kabuli_Chr02	22644431	AA	GG	GG	INTERGENIC		
SNP_9569_A_22646750	NC_021161.1	Ca_Kabuli_Chr02	22646750	GG	AA	AA	INTERGENIC		
SNP_9570_A_22646767	NC_021161.1	Ca_Kabuli_Chr02	22646767	AA	GG	GG	INTERGENIC		
SNP_9571_A_22650562	NC_021161.1	Ca_Kabuli_Chr02	22650562	CC	TT	TT	INTERGENIC		
SNP_9572_A_22650614	NC_021161.1	Ca_Kabuli_Chr02	22650614	TT	AA	AA	INTERGENIC		
SNP_9574_A_22650687	NC_021161.1	Ca_Kabuli_Chr02	22650687	AA	GG	GG	INTERGENIC		
SNP_9575_A_22650734	NC_021161.1	Ca_Kabuli_Chr02	22650734	TT	CC	CC	INTERGENIC		
SNP_9576_A_22650764	NC_021161.1	Ca_Kabuli_Chr02	22650764	AA	GG	GG	INTERGENIC		
SNP_9577_A_22650848	NC_021161.1	Ca_Kabuli_Chr02	22650848	CC	TT	TT	INTERGENIC		
SNP_9578_A_22651022	NC_021161.1	Ca_Kabuli_Chr02	22651022	AA	TT	TT	INTERGENIC		
SNP_9579_A_22651023	NC_021161.1	Ca_Kabuli_Chr02	22651023	TT	GG	GG	INTERGENIC		
SNP_9580_A_22651843	NC_021161.1	Ca_Kabuli_Chr02	22651843	TT	CC	CC	INTERGENIC		
SNP_9581_A_22667743	NC_021161.1	Ca_Kabuli_Chr02	22667743	AA	GG	GG	INTERGENIC		
SNP_9582_A_22667756	NC_021161.1	Ca_Kabuli_Chr02	22667756	TT	CC	CC	INTERGENIC		
SNP_9583_A_22677321	NC_021161.1	Ca_Kabuli_Chr02	22677321	TT	AA	AA	INTERGENIC		
SNP_9584_A_22677327	NC_021161.1	Ca_Kabuli_Chr02	22677327	AA	TT	TT	INTERGENIC		
SNP_9585_A_22681889	NC_021161.1	Ca_Kabuli_Chr02	22681889	GG	TT	TT	INTERGENIC		
SNP_9586_A_22681899	NC_021161.1	Ca_Kabuli_Chr02	22681899	GG	AA	AA	INTERGENIC		
SNP_9587_A_22749216	NC_021161.1	Ca_Kabuli_Chr02	22749216	TT	CC	CC	INTRON	101489154	Unknown function
SNP_9588_A_22749340	NC_021161.1	Ca_Kabuli_Chr02	22749340	GG	AA	AA	NON_SYNONYMOUS_CODING	101489154	Unknown function
SNP_9589_A_22749381	NC_021161.1	Ca_Kabuli_Chr02	22749381	AA	GG	GG	SYNONYMOUS_CODING	101489154	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9590_A_22749410	NC_021161.1	Ca_Kabuli_Chr02	22749410	TT	CC	CC	NON_SYNONYMOUS_CODING	101489154	Unknown function
SNP_9591_A_22749428	NC_021161.1	Ca_Kabuli_Chr02	22749428	GG	AA	AA	NON_SYNONYMOUS_CODING	101489154	Unknown function
SNP_9592_A_22749453	NC_021161.1	Ca_Kabuli_Chr02	22749453	TT	GG	GG	NON_SYNONYMOUS_CODING	101489154	Unknown function
SNP_9593_A_22749469	NC_021161.1	Ca_Kabuli_Chr02	22749469	TT	GG	GG	NON_SYNONYMOUS_CODING	101489154	Unknown function
SNP_9594_A_22749566	NC_021161.1	Ca_Kabuli_Chr02	22749566	TT	AA	AA	INTRON	101489154	Unknown function
SNP_9595_A_22749590	NC_021161.1	Ca_Kabuli_Chr02	22749590	GG	AA	AA	INTRON	101489154	Unknown function
SNP_9596_A_22749984	NC_021161.1	Ca_Kabuli_Chr02	22749984	AA	GG	GG	SYNONYMOUS_CODING	101489154	Unknown function
SNP_9597_A_22750344	NC_021161.1	Ca_Kabuli_Chr02	22750344	GG	AA	AA	URR	101489154	Unknown function
SNP_9598_A_22750367	NC_021161.1	Ca_Kabuli_Chr02	22750367	CC	TT	TT	URR	101489154	Unknown function
SNP_9599_A_22750462	NC_021161.1	Ca_Kabuli_Chr02	22750462	AA	GG	GG	URR	101489154	Unknown function
SNP_9600_A_22750493	NC_021161.1	Ca_Kabuli_Chr02	22750493	AA	GG	GG	URR	101489154	Unknown function
SNP_9601_A_22755943	NC_021161.1	Ca_Kabuli_Chr02	22755943	TT	AA	AA	URR	101489483	Unknown function
SNP_9602_A_22779117	NC_021161.1	Ca_Kabuli_Chr02	22779117	TT	GG	GG	INTERGENIC		
SNP_9603_A_22779399	NC_021161.1	Ca_Kabuli_Chr02	22779399	TT	CC	CC	INTERGENIC		
SNP_9604_A_22779437	NC_021161.1	Ca_Kabuli_Chr02	22779437	GG	AA	AA	INTERGENIC		
SNP_9605_A_22779440	NC_021161.1	Ca_Kabuli_Chr02	22779440	AA	GG	GG	INTERGENIC		
SNP_9606_A_22779491	NC_021161.1	Ca_Kabuli_Chr02	22779491	AA	CC	CC	INTERGENIC		
SNP_9607_A_22779611	NC_021161.1	Ca_Kabuli_Chr02	22779611	TT	CC	CC	INTERGENIC		
SNP_9608_A_22779644	NC_021161.1	Ca_Kabuli_Chr02	22779644	GG	AA	AA	INTERGENIC		
SNP_9609_A_22782712	NC_021161.1	Ca_Kabuli_Chr02	22782712	TT	AA	AA	INTERGENIC		
SNP_9610_A_22783022	NC_021161.1	Ca_Kabuli_Chr02	22783022	AA	TT	TT	INTERGENIC		
SNP_9611_A_22811468	NC_021161.1	Ca_Kabuli_Chr02	22811468	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9612_A_22812347	NC_021161.1	Ca_Kabuli_Chr02	22812347	CC	AA	AA	INTERGENIC			
SNP_9613_A_22827739	NC_021161.1	Ca_Kabuli_Chr02	22827739	TT	CC	CC	INTERGENIC			
SNP_9615_A_22889825	NC_021161.1	Ca_Kabuli_Chr02	22889825	TT	AA	AA	INTERGENIC			
SNP_9617_A_22929718	NC_021161.1	Ca_Kabuli_Chr02	22929718	AA	GG	GG	INTERGENIC			
SNP_9618_A_22974296	NC_021161.1	Ca_Kabuli_Chr02	22974296	CC	TT	TT	INTERGENIC			
SNP_9619_A_23006738	NC_021161.1	Ca_Kabuli_Chr02	23006738	TT	GG	GG	INTERGENIC			
SNP_9620_A_23041233	NC_021161.1	Ca_Kabuli_Chr02	23041233	CC	AA	AA	INTERGENIC			
SNP_9621_A_23041249	NC_021161.1	Ca_Kabuli_Chr02	23041249	GG	AA	AA	INTERGENIC			
SNP_9622_A_23041316	NC_021161.1	Ca_Kabuli_Chr02	23041316	AA	TT	TT	INTERGENIC			
SNP_9623_A_23041325	NC_021161.1	Ca_Kabuli_Chr02	23041325	AA	GG	GG	INTERGENIC			
SNP_9624_A_23041337	NC_021161.1	Ca_Kabuli_Chr02	23041337	CC	TT	TT	INTERGENIC			
SNP_9625_A_23041642	NC_021161.1	Ca_Kabuli_Chr02	23041642	GG	TT	TT	INTERGENIC			
SNP_9627_A_23067648	NC_021161.1	Ca_Kabuli_Chr02	23067648	AA	GG	GG	INTERGENIC			
SNP_9628_A_23068006	NC_021161.1	Ca_Kabuli_Chr02	23068006	TT	CC	CC	INTERGENIC			
SNP_9629_A_23068080	NC_021161.1	Ca_Kabuli_Chr02	23068080	CC	GG	GG	INTERGENIC			
SNP_9630_A_23155532	NC_021161.1	Ca_Kabuli_Chr02	23155532	AA	GG	GG	INTERGENIC			
SNP_9631_A_23155564	NC_021161.1	Ca_Kabuli_Chr02	23155564	GG	TT	TT	INTERGENIC			
SNP_9632_A_23155919	NC_021161.1	Ca_Kabuli_Chr02	23155919	CC	TT	TT	INTERGENIC			
SNP_9633_A_23192938	NC_021161.1	Ca_Kabuli_Chr02	23192938	CC	TT	TT	INTERGENIC			
SNP_9634_A_23192976	NC_021161.1	Ca_Kabuli_Chr02	23192976	AA	GG	GG	INTERGENIC			
SNP_9635_A_23193053	NC_021161.1	Ca_Kabuli_Chr02	23193053	TT	AA	AA	INTERGENIC			
SNP_9636_A_23193061	NC_021161.1	Ca_Kabuli_Chr02	23193061	AA	CC	CC	INTERGENIC			

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SNP_9637_A_23193078	NC_021161.1	Ca_Kabuli_Chr02	23193078	TT	CC	CC	INTERGENIC			
SNP_9638_A_23193083	NC_021161.1	Ca_Kabuli_Chr02	23193083	CC	TT	TT	INTERGENIC			
SNP_9640_A_23193636	NC_021161.1	Ca_Kabuli_Chr02	23193636	GG	AA	AA	INTERGENIC			
SNP_9641_A_23253132	NC_021161.1	Ca_Kabuli_Chr02	23253132	CC	GG	GG	INTERGENIC			
SNP_9642_A_23253135	NC_021161.1	Ca_Kabuli_Chr02	23253135	CC	TT	TT	INTERGENIC			
SNP_9643_A_23253178	NC_021161.1	Ca_Kabuli_Chr02	23253178	GG	TT	TT	INTERGENIC			
SNP_9644_A_23254004	NC_021161.1	Ca_Kabuli_Chr02	23254004	CC	AA	AA	INTERGENIC			
SNP_9645_A_23254030	NC_021161.1	Ca_Kabuli_Chr02	23254030	CC	TT	TT	INTERGENIC			
SNP_9646_A_23260170	NC_021161.1	Ca_Kabuli_Chr02	23260170	GG	TT	TT	INTERGENIC			
SNP_9647_A_23362429	NC_021161.1	Ca_Kabuli_Chr02	23362429	AA	GG	GG	INTERGENIC			
SNP_9648_A_23362644	NC_021161.1	Ca_Kabuli_Chr02	23362644	CC	GG	GG	INTERGENIC			
SNP_9649_A_23371303	NC_021161.1	Ca_Kabuli_Chr02	23371303	GG	CC	CC	INTERGENIC			
SNP_9650_A_23371404	NC_021161.1	Ca_Kabuli_Chr02	23371404	AA	GG	GG	INTERGENIC			
SNP_9651_A_23371561	NC_021161.1	Ca_Kabuli_Chr02	23371561	CC	TT	TT	INTERGENIC			
SNP_9652_A_23371798	NC_021161.1	Ca_Kabuli_Chr02	23371798	AA	GG	GG	INTERGENIC			
SNP_9653_A_23400995	NC_021161.1	Ca_Kabuli_Chr02	23400995	TT	AA	AA	INTERGENIC			
SNP_9654_A_23401508	NC_021161.1	Ca_Kabuli_Chr02	23401508	GG	AA	AA	INTERGENIC			
SNP_9656_A_23408503	NC_021161.1	Ca_Kabuli_Chr02	23408503	TT	CC	CC	INTERGENIC			
SNP_9659_A_23513867	NC_021161.1	Ca_Kabuli_Chr02	23513867	GG	AA	AA	INTERGENIC			
SNP_9660_A_23539436	NC_021161.1	Ca_Kabuli_Chr02	23539436	CC	TT	TT	INTERGENIC			
SNP_9661_A_23544794	NC_021161.1	Ca_Kabuli_Chr02	23544794	AA	GG	GG	INTERGENIC			
SNP_9662_A_23544816	NC_021161.1	Ca_Kabuli_Chr02	23544816	AA	GG	GG	INTERGENIC			

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SNP_9663_A_23544842	NC_021161.1	Ca_Kabuli_Chr02	23544842	TT	CC	CC	INTERGENIC			
SNP_9664_A_23544950	NC_021161.1	Ca_Kabuli_Chr02	23544950	TT	CC	CC	INTERGENIC			
SNP_9665_A_23545017	NC_021161.1	Ca_Kabuli_Chr02	23545017	TT	CC	CC	INTERGENIC			
SNP_9666_A_23545023	NC_021161.1	Ca_Kabuli_Chr02	23545023	AA	GG	GG	INTERGENIC			
SNP_9667_A_23545059	NC_021161.1	Ca_Kabuli_Chr02	23545059	TT	AA	AA	INTERGENIC			
SNP_9668_A_23545121	NC_021161.1	Ca_Kabuli_Chr02	23545121	AA	CC	CC	INTERGENIC			
SNP_9669_A_23545134	NC_021161.1	Ca_Kabuli_Chr02	23545134	TT	CC	CC	INTERGENIC			
SNP_9670_A_23624316	NC_021161.1	Ca_Kabuli_Chr02	23624316	GG	AA	AA	INTERGENIC			
SNP_9671_A_23624340	NC_021161.1	Ca_Kabuli_Chr02	23624340	TT	AA	AA	INTERGENIC			
SNP_9672_A_23624347	NC_021161.1	Ca_Kabuli_Chr02	23624347	GG	TT	TT	INTERGENIC			
SNP_9673_A_23624352	NC_021161.1	Ca_Kabuli_Chr02	23624352	CC	TT	TT	INTERGENIC			
SNP_9674_A_23624369	NC_021161.1	Ca_Kabuli_Chr02	23624369	TT	AA	AA	INTERGENIC			
SNP_9675_A_23624373	NC_021161.1	Ca_Kabuli_Chr02	23624373	TT	GG	GG	INTERGENIC			
SNP_9676_A_23624376	NC_021161.1	Ca_Kabuli_Chr02	23624376	AA	GG	GG	INTERGENIC			
SNP_9677_A_23624385	NC_021161.1	Ca_Kabuli_Chr02	23624385	AA	GG	GG	INTERGENIC			
SNP_9678_A_23624388	NC_021161.1	Ca_Kabuli_Chr02	23624388	GG	CC	CC	INTERGENIC			
SNP_9679_A_23624393	NC_021161.1	Ca_Kabuli_Chr02	23624393	AA	GG	GG	INTERGENIC			
SNP_9680_A_23624400	NC_021161.1	Ca_Kabuli_Chr02	23624400	TT	CC	CC	INTERGENIC			
SNP_9681_A_23624409	NC_021161.1	Ca_Kabuli_Chr02	23624409	AA	GG	GG	INTERGENIC			
SNP_9682_A_23624519	NC_021161.1	Ca_Kabuli_Chr02	23624519	AA	TT	TT	INTERGENIC			
SNP_9683_A_23624536	NC_021161.1	Ca_Kabuli_Chr02	23624536	CC	TT	TT	INTERGENIC			
SNP_9684_A_23624570	NC_021161.1	Ca_Kabuli_Chr02	23624570	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9685_A_23691594	NC_021161.1	Ca_Kabuli_Chr02	23691594	TT	CC	CC	INTERGENIC		
SNP_9686_A_23695520	NC_021161.1	Ca_Kabuli_Chr02	23695520	AA	CC	CC	INTERGENIC		
SNP_9687_A_23752740	NC_021161.1	Ca_Kabuli_Chr02	23752740	TT	AA	AA	INTRON	10151184	U3 small nucleolar RNA-associated protein 25
SNP_9688_A_23753103	NC_021161.1	Ca_Kabuli_Chr02	23753103	CC	TT	TT	INTRON	10151184	U3 small nucleolar RNA-associated protein 25
SNP_9689_A_23753178	NC_021161.1	Ca_Kabuli_Chr02	23753178	GG	AA	AA	INTRON	10151184	U3 small nucleolar RNA-associated protein 25
SNP_9690_A_23753259	NC_021161.1	Ca_Kabuli_Chr02	23753259	GG	AA	AA	INTRON	10151184	U3 small nucleolar RNA-associated protein 25
SNP_9691_A_23760728	NC_021161.1	Ca_Kabuli_Chr02	23760728	AA	GG	GG	INTERGENIC		
SNP_9692_A_23760738	NC_021161.1	Ca_Kabuli_Chr02	23760738	CC	TT	TT	INTERGENIC		
SNP_9694_A_23794272	NC_021161.1	Ca_Kabuli_Chr02	23794272	TT	CC	CC	INTERGENIC		
SNP_9697_A_23853810	NC_021161.1	Ca_Kabuli_Chr02	23853810	TT	CC	CC	INTERGENIC		
SNP_9698_A_23854420	NC_021161.1	Ca_Kabuli_Chr02	23854420	TT	CC	CC	INTERGENIC		
SNP_9699_A_23854451	NC_021161.1	Ca_Kabuli_Chr02	23854451	TT	CC	CC	INTERGENIC		
SNP_9700_A_23854457	NC_021161.1	Ca_Kabuli_Chr02	23854457	TT	CC	CC	INTERGENIC		
SNP_9701_A_23894990	NC_021161.1	Ca_Kabuli_Chr02	23894990	AA	GG	GG	INTERGENIC		
SNP_9702_A_23910380	NC_021161.1	Ca_Kabuli_Chr02	23910380	TT	CC	CC	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9703_A_23910913	NC_021161.1	Ca_Kabuli_Chr02	23910913	CC	AA	AA	NON_SYNONYMOUS_CODING	101512687	tripeptidyl-peptidase 2-like
SNP_9704_A_23911358	NC_021161.1	Ca_Kabuli_Chr02	23911358	CC	TT	TT	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9705_A_23912417	NC_021161.1	Ca_Kabuli_Chr02	23912417	TT	CC	CC	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9706_A_23912432	NC_021161.1	Ca_Kabuli_Chr02	23912432	CC	TT	TT	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9707_A_23912510	NC_021161.1	Ca_Kabuli_Chr02	23912510	AA	GG	GG	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9708_A_23912698	NC_021161.1	Ca_Kabuli_Chr02	23912698	AA	TT	TT	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9709_A_23925718	NC_021161.1	Ca_Kabuli_Chr02	23925718	AA	CC	CC	INTRON	101512687	tripeptidyl-peptidase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9710_A_23925725	NC_021161.1	Ca_Kabuli_Chr02	23925725	CC	TT	TT	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9711_A_23925946	NC_021161.1	Ca_Kabuli_Chr02	23925946	CC	TT	TT	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9712_A_23926393	NC_021161.1	Ca_Kabuli_Chr02	23926393	GG	AA	AA	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9713_A_23926501	NC_021161.1	Ca_Kabuli_Chr02	23926501	GG	CC	CC	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9714_A_23926521	NC_021161.1	Ca_Kabuli_Chr02	23926521	GG	AA	AA	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9715_A_23926769	NC_021161.1	Ca_Kabuli_Chr02	23926769	AA	GG	GG	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9716_A_23926813	NC_021161.1	Ca_Kabuli_Chr02	23926813	TT	GG	GG	INTRON	101512687	tripeptidyl-peptidase 2-like
SNP_9717_A_23926996	NC_021161.1	Ca_Kabuli_Chr02	23926996	GG	CC	CC	SYNONYMOUS_CODING	101512687	tripeptidyl-peptidase 2-like
SNP_9718_A_23927105	NC_021161.1	Ca_Kabuli_Chr02	23927105	AA	GG	GG	INTERGENIC		
SNP_9719_A_23927240	NC_021161.1	Ca_Kabuli_Chr02	23927240	GG	AA	AA	URR	101512687	tripeptidyl-peptidase 2-like
SNP_9720_A_23931668	NC_021161.1	Ca_Kabuli_Chr02	23931668	GG	AA	AA	INTERGENIC		
SNP_9721_A_23931990	NC_021161.1	Ca_Kabuli_Chr02	23931990	GG	AA	AA	INTERGENIC		
SNP_9722_A_23932205	NC_021161.1	Ca_Kabuli_Chr02	23932205	TT	GG	GG	INTERGENIC		
SNP_9724_A_23934055	NC_021161.1	Ca_Kabuli_Chr02	23934055	CC	GG	GG	URR	101513227	Unknown function
SNP_9725_A_23934184	NC_021161.1	Ca_Kabuli_Chr02	23934184	AA	GG	GG	URR	101513227	Unknown function
SNP_9726_A_23934307	NC_021161.1	Ca_Kabuli_Chr02	23934307	TT	CC	CC	URR	101513227	Unknown function
SNP_9727_A_23972237	NC_021161.1	Ca_Kabuli_Chr02	23972237	CC	TT	TT	INTERGENIC		
SNP_9729_A_23990162	NC_021161.1	Ca_Kabuli_Chr02	23990162	CC	AA	AA	INTERGENIC		
SNP_9730_A_23990169	NC_021161.1	Ca_Kabuli_Chr02	23990169	CC	TT	TT	INTERGENIC		
SNP_9732_A_24004915	NC_021161.1	Ca_Kabuli_Chr02	24004915	CC	TT	TT	INTERGENIC		
SNP_9733_A_24033600	NC_021161.1	Ca_Kabuli_Chr02	24033600	GG	AA	AA	INTERGENIC		
SNP_9735_A_24151165	NC_021161.1	Ca_Kabuli_Chr02	24151165	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9736_A_24151209	NC_021161.1	Ca_Kabuli_Chr02	24151209	CC	TT	TT	INTERGENIC			
SNP_9737_A_24151257	NC_021161.1	Ca_Kabuli_Chr02	24151257	GG	AA	AA	INTERGENIC			
SNP_9738_A_24151519	NC_021161.1	Ca_Kabuli_Chr02	24151519	TT	CC	CC	INTERGENIC			
SNP_9739_A_24151673	NC_021161.1	Ca_Kabuli_Chr02	24151673	AA	GG	GG	INTERGENIC			
SNP_9740_A_24151922	NC_021161.1	Ca_Kabuli_Chr02	24151922	AA	GG	GG	INTERGENIC			
SNP_9741_A_24151956	NC_021161.1	Ca_Kabuli_Chr02	24151956	CC	TT	TT	INTERGENIC			
SNP_9742_A_24152174	NC_021161.1	Ca_Kabuli_Chr02	24152174	GG	TT	TT	INTERGENIC			
SNP_9743_A_24152184	NC_021161.1	Ca_Kabuli_Chr02	24152184	AA	GG	GG	INTERGENIC			
SNP_9744_A_24152531	NC_021161.1	Ca_Kabuli_Chr02	24152531	AA	GG	GG	INTERGENIC			
SNP_9745_A_24251742	NC_021161.1	Ca_Kabuli_Chr02	24251742	GG	CC	CC	INTERGENIC			
SNP_9746_A_24251902	NC_021161.1	Ca_Kabuli_Chr02	24251902	AA	GG	GG	INTERGENIC			
SNP_9747_A_24252104	NC_021161.1	Ca_Kabuli_Chr02	24252104	TT	CC	CC	INTERGENIC			
SNP_9748_A_24252119	NC_021161.1	Ca_Kabuli_Chr02	24252119	TT	CC	CC	INTERGENIC			
SNP_9749_A_24252122	NC_021161.1	Ca_Kabuli_Chr02	24252122	CC	TT	TT	INTERGENIC			
SNP_9751_A_24252154	NC_021161.1	Ca_Kabuli_Chr02	24252154	CC	TT	TT	INTERGENIC			
SNP_9752_A_24252157	NC_021161.1	Ca_Kabuli_Chr02	24252157	TT	CC	CC	INTERGENIC			
SNP_9753_A_24252159	NC_021161.1	Ca_Kabuli_Chr02	24252159	AA	CC	CC	INTERGENIC			
SNP_9754_A_24252193	NC_021161.1	Ca_Kabuli_Chr02	24252193	TT	CC	CC	INTERGENIC			
SNP_9755_A_24257034	NC_021161.1	Ca_Kabuli_Chr02	24257034	TT	CC	CC	INTERGENIC			
SNP_9756_A_24257042	NC_021161.1	Ca_Kabuli_Chr02	24257042	TT	CC	CC	INTERGENIC			
SNP_9757_A_24257234	NC_021161.1	Ca_Kabuli_Chr02	24257234	TT	CC	CC	INTERGENIC			
SNP_9758_A_24257329	NC_021161.1	Ca_Kabuli_Chr02	24257329	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9759_A_24259566	NC_021161.1	Ca_Kabuli_Chr02	24259566	CC	TT	TT	INTERGENIC		
SNP_9760_A_24259679	NC_021161.1	Ca_Kabuli_Chr02	24259679	AA	CC	CC	INTERGENIC		
SNP_9761_A_24259686	NC_021161.1	Ca_Kabuli_Chr02	24259686	TT	AA	AA	INTERGENIC		
SNP_9762_A_24259697	NC_021161.1	Ca_Kabuli_Chr02	24259697	TT	GG	GG	INTERGENIC		
SNP_9763_A_24259766	NC_021161.1	Ca_Kabuli_Chr02	24259766	TT	CC	CC	INTERGENIC		
SNP_9764_A_24259775	NC_021161.1	Ca_Kabuli_Chr02	24259775	AA	TT	TT	INTERGENIC		
SNP_9765_A_24259802	NC_021161.1	Ca_Kabuli_Chr02	24259802	GG	TT	TT	INTERGENIC		
SNP_9766_A_24259831	NC_021161.1	Ca_Kabuli_Chr02	24259831	AA	TT	TT	INTERGENIC		
SNP_9767_A_24310031	NC_021161.1	Ca_Kabuli_Chr02	24310031	CC	AA	AA	INTERGENIC		
SNP_9768_A_24310033	NC_021161.1	Ca_Kabuli_Chr02	24310033	GG	CC	CC	INTERGENIC		
SNP_9769_A_24310160	NC_021161.1	Ca_Kabuli_Chr02	24310160	GG	AA	AA	INTERGENIC		
SNP_9770_A_24310198	NC_021161.1	Ca_Kabuli_Chr02	24310198	CC	TT	TT	INTERGENIC		
SNP_9771_A_24310223	NC_021161.1	Ca_Kabuli_Chr02	24310223	CC	TT	TT	INTERGENIC		
SNP_9772_A_24310265	NC_021161.1	Ca_Kabuli_Chr02	24310265	AA	CC	CC	INTERGENIC		
SNP_9773_A_24310574	NC_021161.1	Ca_Kabuli_Chr02	24310574	CC	TT	TT	INTERGENIC		
SNP_9774_A_24317985	NC_021161.1	Ca_Kabuli_Chr02	24317985	TT	CC	CC	INTERGENIC		
SNP_9775_A_24318078	NC_021161.1	Ca_Kabuli_Chr02	24318078	TT	AA	AA	INTERGENIC		
SNP_9776_A_24318773	NC_021161.1	Ca_Kabuli_Chr02	24318773	AA	GG	GG	INTERGENIC		
SNP_9777_A_24391986	NC_021161.1	Ca_Kabuli_Chr02	24391986	CC	TT	TT	INTERGENIC		
SNP_9778_A_24433676	NC_021161.1	Ca_Kabuli_Chr02	24433676	TT	AA	AA	URR	101504558	uncharacterized LOC101504558
SNP_9779_A_24434042	NC_021161.1	Ca_Kabuli_Chr02	24434042	TT	GG	GG	URR	101504558	uncharacterized LOC101504558
SNP_9780_A_24441498	NC_021161.1	Ca_Kabuli_Chr02	24441498	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9781_A_24457542	NC_021161.1	Ca_Kabuli_Chr02	24457542	CC	GG	GG	INTERGENIC		
SNP_9782_A_24476920	NC_021161.1	Ca_Kabuli_Chr02	24476920	GG	AA	AA	INTERGENIC		
SNP_9783_A_24557332	NC_021161.1	Ca_Kabuli_Chr02	24557332	TT	CC	CC	INTERGENIC		
SNP_9785_A_24574708	NC_021161.1	Ca_Kabuli_Chr02	24574708	TT	AA	AA	INTERGENIC		
SNP_9786_A_24575383	NC_021161.1	Ca_Kabuli_Chr02	24575383	TT	CC	CC	INTERGENIC		
SNP_9787_A_24575682	NC_021161.1	Ca_Kabuli_Chr02	24575682	GG	TT	TT	INTERGENIC		
SNP_9788_A_24575705	NC_021161.1	Ca_Kabuli_Chr02	24575705	TT	CC	CC	INTERGENIC		
SNP_9789_A_24589411	NC_021161.1	Ca_Kabuli_Chr02	24589411	AA	GG	GG	URR	101506150	zinc finger with UFM1-specific peptidase domain protein-like
SNP_9790_A_24597768	NC_021161.1	Ca_Kabuli_Chr02	24597768	GG	AA	AA	INTRON	101512140	uncharacterized protein PB18E9.04c-like
SNP_9791_A_24597954	NC_021161.1	Ca_Kabuli_Chr02	24597954	AA	GG	GG	INTRON	101512140	uncharacterized protein PB18E9.04c-like
SNP_9792_A_24667605	NC_021161.1	Ca_Kabuli_Chr02	24667605	TT	CC	CC	URR	101506482	uncharacterized LOC101506482
SNP_9794_A_24756400	NC_021161.1	Ca_Kabuli_Chr02	24756400	TT	AA	AA	INTERGENIC		
SNP_9795_A_24774596	NC_021161.1	Ca_Kabuli_Chr02	24774596	TT	GG	GG	INTERGENIC		
SNP_9796_A_24774604	NC_021161.1	Ca_Kabuli_Chr02	24774604	TT	CC	CC	INTERGENIC		
SNP_9797_A_24774612	NC_021161.1	Ca_Kabuli_Chr02	24774612	AA	GG	GG	INTERGENIC		
SNP_9798_A_24774613	NC_021161.1	Ca_Kabuli_Chr02	24774613	TT	CC	CC	INTERGENIC		
SNP_9799_A_24774622	NC_021161.1	Ca_Kabuli_Chr02	24774622	TT	CC	CC	INTERGENIC		
SNP_9800_A_24818309	NC_021161.1	Ca_Kabuli_Chr02	24818309	AA	GG	GG	NON_SYNONYMOUS_CODING	101489037	serine/threonine-protein phosphatase 7 long form homolog
SNP_9801_A_24818341	NC_021161.1	Ca_Kabuli_Chr02	24818341	GG	AA	AA	SYNONYMOUS_CODING	101489037	serine/threonine-protein phosphatase 7 long form homolog
SNP_9802_A_24818354	NC_021161.1	Ca_Kabuli_Chr02	24818354	TT	GG	GG	NON_SYNONYMOUS_CODING	101489037	serine/threonine-protein phosphatase 7 long form homolog
SNP_9803_A_24818399	NC_021161.1	Ca_Kabuli_Chr02	24818399	AA	GG	GG	NON_SYNONYMOUS_CODING	101489037	serine/threonine-protein phosphatase 7 long form homolog
SNP_9804_A_24893923	NC_021161.1	Ca_Kabuli_Chr02	24893923	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_9805_A_24893995	NC_021161.1	Ca_Kabuli_Chr02	24893995	TT	CC	CC	INTERGENIC			
SNP_9806_A_24893998	NC_021161.1	Ca_Kabuli_Chr02	24893998	TT	CC	CC	INTERGENIC			
SNP_9807_A_24894023	NC_021161.1	Ca_Kabuli_Chr02	24894023	TT	GG	GG	INTERGENIC			
SNP_9808_A_24894039	NC_021161.1	Ca_Kabuli_Chr02	24894039	TT	CC	CC	INTERGENIC			
SNP_9809_A_24894055	NC_021161.1	Ca_Kabuli_Chr02	24894055	AA	GG	GG	INTERGENIC			
SNP_9810_A_24894092	NC_021161.1	Ca_Kabuli_Chr02	24894092	TT	AA	AA	INTERGENIC			
SNP_9811_A_24894093	NC_021161.1	Ca_Kabuli_Chr02	24894093	AA	GG	GG	INTERGENIC			
SNP_9812_A_24894104	NC_021161.1	Ca_Kabuli_Chr02	24894104	CC	GG	GG	INTERGENIC			
SNP_9813_A_24894105	NC_021161.1	Ca_Kabuli_Chr02	24894105	TT	AA	AA	INTERGENIC			
SNP_9814_A_24894115	NC_021161.1	Ca_Kabuli_Chr02	24894115	AA	GG	GG	INTERGENIC			
SNP_9815_A_24894128	NC_021161.1	Ca_Kabuli_Chr02	24894128	GG	AA	AA	INTERGENIC			
SNP_9816_A_24894181	NC_021161.1	Ca_Kabuli_Chr02	24894181	TT	CC	CC	INTERGENIC			
SNP_9817_A_24940478	NC_021161.1	Ca_Kabuli_Chr02	24940478	GG	TT	TT	INTERGENIC			
SNP_9818_A_24940499	NC_021161.1	Ca_Kabuli_Chr02	24940499	TT	GG	GG	INTERGENIC			
SNP_9819_A_24940505	NC_021161.1	Ca_Kabuli_Chr02	24940505	CC	TT	TT	INTERGENIC			
SNP_9820_A_24940640	NC_021161.1	Ca_Kabuli_Chr02	24940640	TT	CC	CC	INTERGENIC			
SNP_9821_A_24940736	NC_021161.1	Ca_Kabuli_Chr02	24940736	AA	GG	GG	INTERGENIC			
SNP_9822_A_24941234	NC_021161.1	Ca_Kabuli_Chr02	24941234	AA	TT	TT	INTERGENIC			
SNP_9823_A_24941241	NC_021161.1	Ca_Kabuli_Chr02	24941241	TT	CC	CC	INTERGENIC			
SNP_9824_A_24943018	NC_021161.1	Ca_Kabuli_Chr02	24943018	TT	GG	GG	DRR	101489692	uncharacterized LOC101489692	
SNP_9825_A_24943056	NC_021161.1	Ca_Kabuli_Chr02	24943056	GG	TT	TT	DRR	101489692	uncharacterized LOC101489692	
SNP_9826_A_24943092	NC_021161.1	Ca_Kabuli_Chr02	24943092	AA	GG	GG	DRR	101489692	uncharacterized LOC101489692	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9827_A_24943095	NC_021161.1	Ca_Kabuli_Chr02	24943095	CC	TT	TT	DRR	101489692	uncharacterized LOC101489692
SNP_9829_A_24943435	NC_021161.1	Ca_Kabuli_Chr02	24943435	TT	CC	CC	NON_SYNONYMOUS_CODING	101489692	uncharacterized LOC101489692
SNP_9830_A_24943497	NC_021161.1	Ca_Kabuli_Chr02	24943497	AA	GG	GG	NON_SYNONYMOUS_CODING	101489692	uncharacterized LOC101489692
SNP_9831_A_24947810	NC_021161.1	Ca_Kabuli_Chr02	24947810	CC	TT	TT	INTERGENIC		
SNP_9832_A_24947830	NC_021161.1	Ca_Kabuli_Chr02	24947830	CC	TT	TT	INTERGENIC		
SNP_9833_A_24947843	NC_021161.1	Ca_Kabuli_Chr02	24947843	TT	AA	AA	INTERGENIC		
SNP_9834_A_24947844	NC_021161.1	Ca_Kabuli_Chr02	24947844	GG	AA	AA	INTERGENIC		
SNP_9835_A_24947849	NC_021161.1	Ca_Kabuli_Chr02	24947849	GG	AA	AA	INTERGENIC		
SNP_9836_A_24947882	NC_021161.1	Ca_Kabuli_Chr02	24947882	CC	TT	TT	INTERGENIC		
SNP_9837_A_24948010	NC_021161.1	Ca_Kabuli_Chr02	24948010	AA	GG	GG	INTERGENIC		
SNP_9838_A_24948150	NC_021161.1	Ca_Kabuli_Chr02	24948150	AA	GG	GG	INTERGENIC		
SNP_9840_A_24948285	NC_021161.1	Ca_Kabuli_Chr02	24948285	TT	CC	CC	INTERGENIC		
SNP_9841_A_24948318	NC_021161.1	Ca_Kabuli_Chr02	24948318	CC	TT	TT	INTERGENIC		
SNP_9842_A_24968941	NC_021161.1	Ca_Kabuli_Chr02	24968941	TT	GG	GG	INTERGENIC		
SNP_9843_A_24968950	NC_021161.1	Ca_Kabuli_Chr02	24968950	GG	CC	CC	INTERGENIC		
SNP_9844_A_24968984	NC_021161.1	Ca_Kabuli_Chr02	24968984	AA	GG	GG	INTERGENIC		
SNP_9845_A_24969062	NC_021161.1	Ca_Kabuli_Chr02	24969062	TT	CC	CC	INTERGENIC		
SNP_9846_A_24969076	NC_021161.1	Ca_Kabuli_Chr02	24969076	TT	AA	AA	INTERGENIC		
SNP_9847_A_24969312	NC_021161.1	Ca_Kabuli_Chr02	24969312	CC	AA	GG	INTERGENIC		
SNP_9848_A_24969409	NC_021161.1	Ca_Kabuli_Chr02	24969409	AA	GG	GG	INTERGENIC		
SNP_9849_A_24969413	NC_021161.1	Ca_Kabuli_Chr02	24969413	GG	CC	CC	INTERGENIC		
SNP_9850_A_24984432	NC_021161.1	Ca_Kabuli_Chr02	24984432	GG	AA	AA	URR	101490993	cucumis-in-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9851_A_25025190	NC_021161.1	Ca_Kabuli_Chr02	25025190	CC	TT	TT	INTRON	101491305	zinc finger protein CONSTANS-LIKE 9-like
SNP_9852_A_25025200	NC_021161.1	Ca_Kabuli_Chr02	25025200	CC	TT	TT	INTRON	101491305	zinc finger protein CONSTANS-LIKE 9-like
SNP_9853_A_25025240	NC_021161.1	Ca_Kabuli_Chr02	25025240	GG	AA	AA	INTRON	101491305	zinc finger protein CONSTANS-LIKE 9-like
SNP_9854_A_25025294	NC_021161.1	Ca_Kabuli_Chr02	25025294	CC	TT	TT	INTRON	101491305	zinc finger protein CONSTANS-LIKE 9-like
SNP_9855_A_25025358	NC_021161.1	Ca_Kabuli_Chr02	25025358	GG	AA	AA	INTRON	101491305	zinc finger protein CONSTANS-LIKE 9-like
SNP_9856_A_25136031	NC_021161.1	Ca_Kabuli_Chr02	25136031	CC	TT	TT	URR	101489694	zinc finger MYM-type protein 1-like
SNP_9857_A_25157194	NC_021161.1	Ca_Kabuli_Chr02	25157194	CC	TT	TT	INTRON	101494644	lysosomal beta glucosidase-like
SNP_9858_A_25157274	NC_021161.1	Ca_Kabuli_Chr02	25157274	TT	CC	CC	INTRON	101494644	lysosomal beta glucosidase-like
SNP_9859_A_25157289	NC_021161.1	Ca_Kabuli_Chr02	25157289	TT	CC	CC	INTRON	101494644	lysosomal beta glucosidase-like
SNP_9861_A_25179084	NC_021161.1	Ca_Kabuli_Chr02	25179084	GG	AA	AA	INTERGENIC		
SNP_9862_A_25205271	NC_021161.1	Ca_Kabuli_Chr02	25205271	CC	GG	GG	INTERGENIC		
SNP_9863_A_25224365	NC_021161.1	Ca_Kabuli_Chr02	25224365	GG	AA	AA	INTERGENIC		
SNP_9864_A_25224450	NC_021161.1	Ca_Kabuli_Chr02	25224450	CC	TT	TT	INTERGENIC		
SNP_9865_A_25224717	NC_021161.1	Ca_Kabuli_Chr02	25224717	GG	AA	AA	INTERGENIC		
SNP_9866_A_25224723	NC_021161.1	Ca_Kabuli_Chr02	25224723	AA	GG	GG	INTERGENIC		
SNP_9867_A_25224724	NC_021161.1	Ca_Kabuli_Chr02	25224724	CC	TT	TT	INTERGENIC		
SNP_9868_A_25224736	NC_021161.1	Ca_Kabuli_Chr02	25224736	TT	CC	CC	INTERGENIC		
SNP_9870_A_25241620	NC_021161.1	Ca_Kabuli_Chr02	25241620	GG	TT	TT	INTERGENIC		
SNP_9873_A_25435361	NC_021161.1	Ca_Kabuli_Chr02	25435361	TT	CC	CC	INTERGENIC		
SNP_9874_A_25435818	NC_021161.1	Ca_Kabuli_Chr02	25435818	TT	CC	CC	INTERGENIC		
SNP_9875_A_25445650	NC_021161.1	Ca_Kabuli_Chr02	25445650	TT	CC	CC	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9876_A_25445656	NC_021161.1	Ca_Kabuli_Chr02	25445656	TT	GG	GG	INTRON	101502297	cytochrome P450 CYP736A12-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9877_A_25445667	NC_021161.1	Ca_Kabuli_Chr02	25445667	TT	CC	CC	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9878_A_25450223	NC_021161.1	Ca_Kabuli_Chr02	25450223	AA	GG	GG	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9879_A_25450913	NC_021161.1	Ca_Kabuli_Chr02	25450913	TT	CC	CC	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9880_A_25450945	NC_021161.1	Ca_Kabuli_Chr02	25450945	AA	CC	CC	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9881_A_25450986	NC_021161.1	Ca_Kabuli_Chr02	25450986	TT	CC	CC	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9882_A_25451015	NC_021161.1	Ca_Kabuli_Chr02	25451015	AA	GG	GG	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9883_A_25451041	NC_021161.1	Ca_Kabuli_Chr02	25451041	AA	GG	GG	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9884_A_25451293	NC_021161.1	Ca_Kabuli_Chr02	25451293	GG	TT	TT	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9885_A_25453083	NC_021161.1	Ca_Kabuli_Chr02	25453083	AA	TT	TT	INTRON	101502297	cytochrome P450 CYP736A12-like
SNP_9886_A_25493895	NC_021161.1	Ca_Kabuli_Chr02	25493895	CC	TT	TT	NON_SYNONYMOUS_CODING	101503259	uncharacterized LOC101503259
SNP_9887_A_25501987	NC_021161.1	Ca_Kabuli_Chr02	25501987	GG	AA	AA	INTERGENIC		
SNP_9888_A_25528650	NC_021161.1	Ca_Kabuli_Chr02	25528650	TT	CC	CC	INTERGENIC		
SNP_9889_A_25528653	NC_021161.1	Ca_Kabuli_Chr02	25528653	AA	GG	GG	INTERGENIC		
SNP_9890_A_25528675	NC_021161.1	Ca_Kabuli_Chr02	25528675	AA	GG	GG	INTERGENIC		
SNP_9891_A_25528937	NC_021161.1	Ca_Kabuli_Chr02	25528937	GG	CC	CC	URR	101503905	Unknown function
SNP_9892_A_25528945	NC_021161.1	Ca_Kabuli_Chr02	25528945	TT	GG	GG	URR	101503905	Unknown function
SNP_9893_A_25528955	NC_021161.1	Ca_Kabuli_Chr02	25528955	CC	AA	AA	URR	101503905	Unknown function
SNP_9894_A_25528977	NC_021161.1	Ca_Kabuli_Chr02	25528977	CC	TT	TT	URR	101503905	Unknown function
SNP_9895_A_25529031	NC_021161.1	Ca_Kabuli_Chr02	25529031	TT	AA	AA	URR	101503905	Unknown function
SNP_9896_A_25529039	NC_021161.1	Ca_Kabuli_Chr02	25529039	AA	GG	GG	URR	101503905	Unknown function
SNP_9897_A_25529052	NC_021161.1	Ca_Kabuli_Chr02	25529052	TT	CC	CC	URR	101503905	Unknown function
SNP_9898_A_25529104	NC_021161.1	Ca_Kabuli_Chr02	25529104	AA	CC	CC	URR	101503905	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9899_A_25529130	NC_021161.1	Ca_Kabuli_Chr02	25529130	TT	CC	CC	URR	101503905	Unknown function
SNP_9900_A_25529148	NC_021161.1	Ca_Kabuli_Chr02	25529148	TT	CC	CC	URR	101503905	Unknown function
SNP_9901_A_25529480	NC_021161.1	Ca_Kabuli_Chr02	25529480	AA	GG	GG	URR	101503905	Unknown function
SNP_9902_A_25529527	NC_021161.1	Ca_Kabuli_Chr02	25529527	AA	CC	CC	URR	101503905	Unknown function
SNP_9903_A_25529546	NC_021161.1	Ca_Kabuli_Chr02	25529546	AA	TT	TT	URR	101503905	Unknown function
SNP_9904_A_25529552	NC_021161.1	Ca_Kabuli_Chr02	25529552	GG	AA	AA	URR	101503905	Unknown function
SNP_9905_A_25529641	NC_021161.1	Ca_Kabuli_Chr02	25529641	TT	GG	GG	URR	101503905	Unknown function
SNP_9906_A_25529643	NC_021161.1	Ca_Kabuli_Chr02	25529643	TT	CC	CC	URR	101503905	Unknown function
SNP_9907_A_25529816	NC_021161.1	Ca_Kabuli_Chr02	25529816	CC	TT	TT	URR	101503905	Unknown function
SNP_9908_A_25529824	NC_021161.1	Ca_Kabuli_Chr02	25529824	CC	TT	TT	URR	101503905	Unknown function
SNP_9909_A_25529836	NC_021161.1	Ca_Kabuli_Chr02	25529836	CC	TT	TT	URR	101503905	Unknown function
SNP_9910_A_25529914	NC_021161.1	Ca_Kabuli_Chr02	25529914	AA	GG	GG	URR	101503905	Unknown function
SNP_9911_A_25529920	NC_021161.1	Ca_Kabuli_Chr02	25529920	TT	GG	GG	URR	101503905	Unknown function
SNP_9912_A_25529937	NC_021161.1	Ca_Kabuli_Chr02	25529937	TT	CC	CC	URR	101503905	Unknown function
SNP_9913_A_25529979	NC_021161.1	Ca_Kabuli_Chr02	25529979	CC	TT	TT	URR	101503905	Unknown function
SNP_9914_A_25534719	NC_021161.1	Ca_Kabuli_Chr02	25534719	TT	GG	GG	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_9916_A_25535135	NC_021161.1	Ca_Kabuli_Chr02	25535135	TT	CC	CC	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_9917_A_25535151	NC_021161.1	Ca_Kabuli_Chr02	25535151	TT	CC	CC	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_9918_A_25535154	NC_021161.1	Ca_Kabuli_Chr02	25535154	TT	GG	GG	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_9919_A_25535166	NC_021161.1	Ca_Kabuli_Chr02	25535166	TT	CC	CC	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_9920_A_25587772	NC_021161.1	Ca_Kabuli_Chr02	25587772	TT	CC	CC	INTERGENIC		
SNP_9921_A_25603355	NC_021161.1	Ca_Kabuli_Chr02	25603355	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9922_A_25603551	NC_021161.1	Ca_Kabuli_Chr02	25603551	AA	GG	GG	INTERGENIC		
SNP_9924_A_25604012	NC_021161.1	Ca_Kabuli_Chr02	25604012	GG	AA	AA	INTERGENIC		
SNP_9925_A_25604058	NC_021161.1	Ca_Kabuli_Chr02	25604058	CC	GG	GG	INTERGENIC		
SNP_9926_A_25609623	NC_021161.1	Ca_Kabuli_Chr02	25609623	CC	AA	AA	INTERGENIC		
SNP_9927_A_25609728	NC_021161.1	Ca_Kabuli_Chr02	25609728	AA	CC	CC	INTERGENIC		
SNP_9928_A_25609926	NC_021161.1	Ca_Kabuli_Chr02	25609926	CC	AA	AA	INTERGENIC		
SNP_9929_A_25610036	NC_021161.1	Ca_Kabuli_Chr02	25610036	CC	TT	TT	INTERGENIC		
SNP_9931_A_25680174	NC_021161.1	Ca_Kabuli_Chr02	25680174	CC	TT	TT	INTRON	101491629	plasma membrane ATPase-like
SNP_9932_A_25680504	NC_021161.1	Ca_Kabuli_Chr02	25680504	AA	TT	TT	INTRON	101491629	plasma membrane ATPase-like
SNP_9933_A_25680570	NC_021161.1	Ca_Kabuli_Chr02	25680570	AA	GG	GG	INTRON	101491629	plasma membrane ATPase-like
SNP_9934_A_25680581	NC_021161.1	Ca_Kabuli_Chr02	25680581	CC	TT	TT	INTRON	101491629	plasma membrane ATPase-like
SNP_9935_A_25680583	NC_021161.1	Ca_Kabuli_Chr02	25680583	TT	CC	CC	INTRON	101491629	plasma membrane ATPase-like
SNP_9936_A_25680670	NC_021161.1	Ca_Kabuli_Chr02	25680670	AA	GG	GG	INTRON	101491629	plasma membrane ATPase-like
SNP_9937_A_25683026	NC_021161.1	Ca_Kabuli_Chr02	25683026	TT	CC	CC	URR	101491629	plasma membrane ATPase-like
SNP_9938_A_25683074	NC_021161.1	Ca_Kabuli_Chr02	25683074	CC	TT	TT	URR	101491629	plasma membrane ATPase-like
SNP_9939_A_25683303	NC_021161.1	Ca_Kabuli_Chr02	25683303	TT	CC	CC	URR	101491629	plasma membrane ATPase-like
SNP_9940_A_25683306	NC_021161.1	Ca_Kabuli_Chr02	25683306	TT	CC	CC	URR	101491629	plasma membrane ATPase-like
SNP_9941_A_25708432	NC_021161.1	Ca_Kabuli_Chr02	25708432	GG	TT	TT	INTERGENIC		
SNP_9942_A_25708546	NC_021161.1	Ca_Kabuli_Chr02	25708546	CC	TT	TT	INTERGENIC		
SNP_9943_A_25708789	NC_021161.1	Ca_Kabuli_Chr02	25708789	CC	TT	TT	INTERGENIC		
SNP_9944_A_25708805	NC_021161.1	Ca_Kabuli_Chr02	25708805	TT	CC	CC	INTERGENIC		
SNP_9945_A_25708835	NC_021161.1	Ca_Kabuli_Chr02	25708835	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9946_A_25708961	NC_021161.1	Ca_Kabuli_Chr02	25708961	GG	AA	AA	INTERGENIC		
SNP_9947_A_25708994	NC_021161.1	Ca_Kabuli_Chr02	25708994	GG	CC	CC	INTERGENIC		
SNP_9948_A_25708995	NC_021161.1	Ca_Kabuli_Chr02	25708995	TT	CC	CC	INTERGENIC		
SNP_9949_A_25709761	NC_021161.1	Ca_Kabuli_Chr02	25709761	TT	AA	AA	INTERGENIC		
SNP_9950_A_25709777	NC_021161.1	Ca_Kabuli_Chr02	25709777	AA	GG	GG	INTERGENIC		
SNP_9951_A_25712940	NC_021161.1	Ca_Kabuli_Chr02	25712940	TT	CC	CC	INTERGENIC		
SNP_9952_A_25712955	NC_021161.1	Ca_Kabuli_Chr02	25712955	AA	CC	CC	INTERGENIC		
SNP_9953_A_25713199	NC_021161.1	Ca_Kabuli_Chr02	25713199	GG	TT	TT	INTERGENIC		
SNP_9954_A_25713222	NC_021161.1	Ca_Kabuli_Chr02	25713222	GG	AA	AA	INTERGENIC		
SNP_9955_A_25713261	NC_021161.1	Ca_Kabuli_Chr02	25713261	CC	GG	GG	INTERGENIC		
SNP_9956_A_25713295	NC_021161.1	Ca_Kabuli_Chr02	25713295	AA	TT	TT	INTERGENIC		
SNP_9957_A_25713308	NC_021161.1	Ca_Kabuli_Chr02	25713308	GG	AA	AA	INTERGENIC		
SNP_9958_A_25732058	NC_021161.1	Ca_Kabuli_Chr02	25732058	AA	GG	GG	INTERGENIC		
SNP_9959_A_25747193	NC_021161.1	Ca_Kabuli_Chr02	25747193	CC	TT	TT	INTERGENIC		
SNP_9960_A_25767696	NC_021161.1	Ca_Kabuli_Chr02	25767696	GG	AA	AA	INTRON	101507775	beta-glucosidase 12-like
SNP_9962_A_25944720	NC_021161.1	Ca_Kabuli_Chr02	25944720	AA	GG	GG	URR	101510322	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase
SNP_9963_A_25953217	NC_021161.1	Ca_Kabuli_Chr02	25953217	TT	AA	AA	INTERGENIC		
SNP_9964_A_26416126	NC_021161.1	Ca_Kabuli_Chr02	26416126	GG	AA	AA	DRR	101495723	UDP-glycosyltransferase 87A1
SNP_9965_A_26426885	NC_021161.1	Ca_Kabuli_Chr02	26426885	AA	TT	TT	INTRON	101507661	UDP-glycosyltransferase 87A1
SNP_9966_A_26438856	NC_021161.1	Ca_Kabuli_Chr02	26438856	AA	GG	GG	URR	101507984	protein FAR1-RELATED SEQUENCE 5-like
SNP_9967_A_26448592	NC_021161.1	Ca_Kabuli_Chr02	26448592	AA	GG	GG	INTERGENIC		
SNP_9968_A_26448599	NC_021161.1	Ca_Kabuli_Chr02	26448599	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9969_A_26449543	NC_021161.1	Ca_Kabuli_Chr02	26449543	GG	AA	AA	INTERGENIC		
SNP_9970_A_26449547	NC_021161.1	Ca_Kabuli_Chr02	26449547	AA	TT	TT	INTERGENIC		
SNP_9971_A_26450291	NC_021161.1	Ca_Kabuli_Chr02	26450291	GG	TT	TT	INTERGENIC		
SNP_9972_A_26452106	NC_021161.1	Ca_Kabuli_Chr02	26452106	GG	AA	AA	INTERGENIC		
SNP_9973_A_26480423	NC_021161.1	Ca_Kabuli_Chr02	26480423	CC	AA	AA	INTERGENIC		
SNP_9974_A_26480444	NC_021161.1	Ca_Kabuli_Chr02	26480444	TT	AA	AA	INTERGENIC		
SNP_9975_A_26488078	NC_021161.1	Ca_Kabuli_Chr02	26488078	CC	AA	AA	INTERGENIC		
SNP_9976_A_26488177	NC_021161.1	Ca_Kabuli_Chr02	26488177	AA	GG	GG	INTERGENIC		
SNP_9977_A_26488211	NC_021161.1	Ca_Kabuli_Chr02	26488211	CC	TT	TT	INTERGENIC		
SNP_9978_A_26488224	NC_021161.1	Ca_Kabuli_Chr02	26488224	GG	TT	TT	INTERGENIC		
SNP_9979_A_26488307	NC_021161.1	Ca_Kabuli_Chr02	26488307	CC	TT	TT	INTERGENIC		
SNP_9980_A_26488330	NC_021161.1	Ca_Kabuli_Chr02	26488330	GG	AA	AA	INTERGENIC		
SNP_9981_A_26488361	NC_021161.1	Ca_Kabuli_Chr02	26488361	AA	GG	GG	INTERGENIC		
SNP_9982_A_26488372	NC_021161.1	Ca_Kabuli_Chr02	26488372	AA	GG	GG	INTERGENIC		
SNP_9983_A_26488397	NC_021161.1	Ca_Kabuli_Chr02	26488397	AA	CC	CC	INTERGENIC		
SNP_9984_A_26488454	NC_021161.1	Ca_Kabuli_Chr02	26488454	AA	GG	GG	INTERGENIC		
SNP_9985_A_26488465	NC_021161.1	Ca_Kabuli_Chr02	26488465	CC	TT	TT	INTERGENIC		
SNP_9986_A_26488649	NC_021161.1	Ca_Kabuli_Chr02	26488649	GG	AA	AA	INTERGENIC		
SNP_9987_A_26504149	NC_021161.1	Ca_Kabuli_Chr02	26504149	AA	GG	GG	URR	101497680	Unknown function
SNP_9989_A_26504510	NC_021161.1	Ca_Kabuli_Chr02	26504510	TT	CC	CC	URR	101497680	Unknown function
SNP_9990_A_26504558	NC_021161.1	Ca_Kabuli_Chr02	26504558	AA	GG	GG	URR	101497680	Unknown function
SNP_9991_A_26705771	NC_021161.1	Ca_Kabuli_Chr02	26705771	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_9992_A_26772330	NC_021161.1	Ca_Kabuli_Chr02	26772330	TT	AA	AA	URR	101511504	exocyst complex component EXO70B1-like
SNP_9993_A_26777540	NC_021161.1	Ca_Kabuli_Chr02	26777540	CC	TT	TT	INTERGENIC		
SNP_9994_A_26893007	NC_021161.1	Ca_Kabuli_Chr02	26893007	AA	GG	GG	INTERGENIC		
SNP_9995_A_26908899	NC_021161.1	Ca_Kabuli_Chr02	26908899	TT	CC	CC	INTERGENIC		
SNP_9996_A_26909733	NC_021161.1	Ca_Kabuli_Chr02	26909733	AA	GG	GG	INTERGENIC		
SNP_9997_A_26909837	NC_021161.1	Ca_Kabuli_Chr02	26909837	AA	GG	GG	INTERGENIC		
SNP_9998_A_26909867	NC_021161.1	Ca_Kabuli_Chr02	26909867	AA	GG	GG	INTERGENIC		
SNP_9999_A_26909876	NC_021161.1	Ca_Kabuli_Chr02	26909876	TT	CC	CC	INTERGENIC		
SNP_10000_A_26909886	NC_021161.1	Ca_Kabuli_Chr02	26909886	AA	GG	GG	INTERGENIC		
SNP_10001_A_26910130	NC_021161.1	Ca_Kabuli_Chr02	26910130	AA	GG	GG	INTERGENIC		
SNP_10002_A_26910131	NC_021161.1	Ca_Kabuli_Chr02	26910131	AA	TT	TT	INTERGENIC		
SNP_10003_A_26910244	NC_021161.1	Ca_Kabuli_Chr02	26910244	AA	GG	GG	INTERGENIC		
SNP_10004_A_26925135	NC_021161.1	Ca_Kabuli_Chr02	26925135	CC	TT	TT	INTERGENIC		
SNP_10005_A_26925586	NC_021161.1	Ca_Kabuli_Chr02	26925586	TT	CC	CC	INTERGENIC		
SNP_10006_A_26925591	NC_021161.1	Ca_Kabuli_Chr02	26925591	CC	TT	TT	INTERGENIC		
SNP_10007_A_26925599	NC_021161.1	Ca_Kabuli_Chr02	26925599	TT	AA	AA	INTERGENIC		
SNP_10008_A_26925601	NC_021161.1	Ca_Kabuli_Chr02	26925601	TT	AA	AA	INTERGENIC		
SNP_10009_A_26925604	NC_021161.1	Ca_Kabuli_Chr02	26925604	TT	AA	AA	INTERGENIC		
SNP_10010_A_26937004	NC_021161.1	Ca_Kabuli_Chr02	26937004	CC	GG	GG	URR	101512142	trans-resveratrol di-O-methyltransferase-like
SNP_10011_A_26940527	NC_021161.1	Ca_Kabuli_Chr02	26940527	CC	TT	TT	INTERGENIC		
SNP_10012_A_26940828	NC_021161.1	Ca_Kabuli_Chr02	26940828	AA	GG	GG	INTERGENIC		
SNP_10013_A_27020889	NC_021161.1	Ca_Kabuli_Chr02	27020889	AA	TT	TT	DRR	101512787	trans-resveratrol di-O-methyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10014_A_27020891	NC_021161.1	Ca_Kabuli_Chr02	27020891	AA	TT	TT	DRR	101512787	trans-resveratrol di-O-methyltransferase-like
SNP_10015_A_27023525	NC_021161.1	Ca_Kabuli_Chr02	27023525	TT	CC	CC	URR	101512787	trans-resveratrol di-O-methyltransferase-like
SNP_10016_A_27027081	NC_021161.1	Ca_Kabuli_Chr02	27027081	TT	AA	AA	INTERGENIC		
SNP_10017_A_27053456	NC_021161.1	Ca_Kabuli_Chr02	27053456	TT	CC	CC	INTRON	101505942	uncharacterized LOC101505942
SNP_10018_A_27053680	NC_021161.1	Ca_Kabuli_Chr02	27053680	GG	AA	AA	NON_SYNONYMOUS_CODING	101505942	uncharacterized LOC101505942
SNP_10019_A_27130308	NC_021161.1	Ca_Kabuli_Chr02	27130308	AA	GG	GG	INTRON	101514968	LOB domain-containing protein 13
SNP_10020_A_27135083	NC_021161.1	Ca_Kabuli_Chr02	27135083	TT	CC	CC	DRR	101506582	uncharacterized LOC101506582
SNP_10021_A_27137088	NC_021161.1	Ca_Kabuli_Chr02	27137088	GG	AA	AA	DRR	101506917	extensin-like
SNP_10022_A_27137386	NC_021161.1	Ca_Kabuli_Chr02	27137386	GG	AA	AA	URR	101506256	uncharacterized LOC101506256
SNP_10023_A_27141371	NC_021161.1	Ca_Kabuli_Chr02	27141371	CC	TT	TT	URR	101506917	extensin-like
SNP_10024_A_27141395	NC_021161.1	Ca_Kabuli_Chr02	27141395	AA	GG	GG	URR	101506917	extensin-like
SNP_10026_A_27192465	NC_021161.1	Ca_Kabuli_Chr02	27192465	GG	AA	AA	INTERGENIC		
SNP_10027_A_27192751	NC_021161.1	Ca_Kabuli_Chr02	27192751	CC	TT	TT	INTERGENIC		
SNP_10028_A_27192757	NC_021161.1	Ca_Kabuli_Chr02	27192757	AA	GG	GG	INTERGENIC		
SNP_10029_A_27192778	NC_021161.1	Ca_Kabuli_Chr02	27192778	AA	TT	TT	INTERGENIC		
SNP_10030_A_27192952	NC_021161.1	Ca_Kabuli_Chr02	27192952	CC	GG	GG	INTERGENIC		
SNP_10031_A_27197823	NC_021161.1	Ca_Kabuli_Chr02	27197823	AA	TT	TT	INTERGENIC		
SNP_10032_A_27237390	NC_021161.1	Ca_Kabuli_Chr02	27237390	CC	TT	TT	INTERGENIC		
SNP_10033_A_27247289	NC_021161.1	Ca_Kabuli_Chr02	27247289	GG	AA	AA	INTERGENIC		
SNP_10034_A_27251797	NC_021161.1	Ca_Kabuli_Chr02	27251797	GG	AA	AA	INTERGENIC		
SNP_10035_A_27251825	NC_021161.1	Ca_Kabuli_Chr02	27251825	AA	GG	GG	INTERGENIC		
SNP_10036_A_27254094	NC_021161.1	Ca_Kabuli_Chr02	27254094	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10037_A_27254223	NC_021161.1	Ca_Kabuli_Chr02	27254223	AA	GG	GG	INTERGENIC			
SNP_10038_A_27254252	NC_021161.1	Ca_Kabuli_Chr02	27254252	TT	CC	CC	INTERGENIC			
SNP_10039_A_27254309	NC_021161.1	Ca_Kabuli_Chr02	27254309	CC	TT	TT	INTERGENIC			
SNP_10040_A_27254339	NC_021161.1	Ca_Kabuli_Chr02	27254339	AA	GG	GG	INTERGENIC			
SNP_10041_A_27254377	NC_021161.1	Ca_Kabuli_Chr02	27254377	TT	CC	CC	INTERGENIC			
SNP_10042_A_27254394	NC_021161.1	Ca_Kabuli_Chr02	27254394	TT	AA	AA	INTERGENIC			
SNP_10043_A_27261691	NC_021161.1	Ca_Kabuli_Chr02	27261691	TT	GG	GG	INTERGENIC			
SNP_10044_A_27278091	NC_021161.1	Ca_Kabuli_Chr02	27278091	CC	TT	TT	URR	101489571	transcription repressor OFP4	
SNP_10045_A_27348121	NC_021161.1	Ca_Kabuli_Chr02	27348121	TT	CC	CC	INTERGENIC			
SNP_10047_A_27411076	NC_021161.1	Ca_Kabuli_Chr02	27411076	TT	AA	AA	INTERGENIC			
SNP_10048_A_27412849	NC_021161.1	Ca_Kabuli_Chr02	27412849	GG	CC	CC	INTERGENIC			
SNP_10050_A_27491694	NC_021161.1	Ca_Kabuli_Chr02	27491694	AA	GG	GG	INTERGENIC			
SNP_10051_A_27491695	NC_021161.1	Ca_Kabuli_Chr02	27491695	AA	GG	GG	INTERGENIC			
SNP_10052_A_27491742	NC_021161.1	Ca_Kabuli_Chr02	27491742	AA	TT	TT	INTERGENIC			
SNP_10053_A_27509627	NC_021161.1	Ca_Kabuli_Chr02	27509627	CC	TT	TT	INTERGENIC			
SNP_10054_A_27509671	NC_021161.1	Ca_Kabuli_Chr02	27509671	GG	TT	TT	INTERGENIC			
SNP_10055_A_27525855	NC_021161.1	Ca_Kabuli_Chr02	27525855	GG	AA	AA	INTERGENIC			
SNP_10056_A_27528183	NC_021161.1	Ca_Kabuli_Chr02	27528183	AA	GG	GG	INTERGENIC			
SNP_10057_A_27528290	NC_021161.1	Ca_Kabuli_Chr02	27528290	AA	CC	CC	INTERGENIC			
SNP_10058_A_27528421	NC_021161.1	Ca_Kabuli_Chr02	27528421	TT	AA	AA	INTERGENIC			
SNP_10059_A_27528453	NC_021161.1	Ca_Kabuli_Chr02	27528453	TT	AA	AA	INTERGENIC			
SNP_10060_A_27528463	NC_021161.1	Ca_Kabuli_Chr02	27528463	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10061_A_27528474	NC_021161.1	Ca_Kabuli_Chr02	27528474	AA	GG	GG	INTERGENIC		
SNP_10062_A_27528479	NC_021161.1	Ca_Kabuli_Chr02	27528479	TT	CC	CC	INTERGENIC		
SNP_10063_A_27528487	NC_021161.1	Ca_Kabuli_Chr02	27528487	AA	TT	TT	INTERGENIC		
SNP_10064_A_27528525	NC_021161.1	Ca_Kabuli_Chr02	27528525	CC	AA	AA	INTERGENIC		
SNP_10065_A_27528562	NC_021161.1	Ca_Kabuli_Chr02	27528562	TT	CC	CC	INTERGENIC		
SNP_10066_A_27528563	NC_021161.1	Ca_Kabuli_Chr02	27528563	AA	GG	GG	INTERGENIC		
SNP_10067_A_27528579	NC_021161.1	Ca_Kabuli_Chr02	27528579	TT	AA	AA	INTERGENIC		
SNP_10068_A_27531571	NC_021161.1	Ca_Kabuli_Chr02	27531571	GG	AA	AA	INTERGENIC		
SNP_10069_A_27539342	NC_021161.1	Ca_Kabuli_Chr02	27539342	TT	AA	AA	INTRON	101493054	kinesin-3-like
SNP_10070_A_27539447	NC_021161.1	Ca_Kabuli_Chr02	27539447	AA	TT	TT	INTRON	id36247	Unknown function
SNP_10071_A_27539605	NC_021161.1	Ca_Kabuli_Chr02	27539605	TT	CC	CC	INTRON	id36247	Unknown function
SNP_10072_A_27539976	NC_021161.1	Ca_Kabuli_Chr02	27539976	TT	CC	CC	INTRON	id36247	Unknown function
SNP_10073_A_27556796	NC_021161.1	Ca_Kabuli_Chr02	27556796	TT	GG	GG	INTERGENIC		
SNP_10074_A_27556798	NC_021161.1	Ca_Kabuli_Chr02	27556798	TT	CC	CC	INTERGENIC		
SNP_10075_A_27556801	NC_021161.1	Ca_Kabuli_Chr02	27556801	AA	TT	TT	INTERGENIC		
SNP_10077_A_27596537	NC_021161.1	Ca_Kabuli_Chr02	27596537	CC	GG	GG	INTERGENIC		
SNP_10078_A_27609583	NC_021161.1	Ca_Kabuli_Chr02	27609583	TT	CC	CC	URR	101509145	uncharacterized LOC101509145
SNP_10080_A_27632016	NC_021161.1	Ca_Kabuli_Chr02	27632016	AA	GG	GG	INTERGENIC		
SNP_10081_A_27647448	NC_021161.1	Ca_Kabuli_Chr02	27647448	AA	GG	GG	INTERGENIC		
SNP_10082_A_27647823	NC_021161.1	Ca_Kabuli_Chr02	27647823	AA	GG	GG	INTERGENIC		
SNP_10083_A_27647856	NC_021161.1	Ca_Kabuli_Chr02	27647856	TT	CC	CC	INTERGENIC		
SNP_10084_A_27647985	NC_021161.1	Ca_Kabuli_Chr02	27647985	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10085_A_27647999	NC_021161.1	Ca_Kabuli_Chr02	27647999	TT	CC	CC	INTERGENIC		
SNP_10087_A_27701351	NC_021161.1	Ca_Kabuli_Chr02	27701351	GG	AA	AA	INTERGENIC		
SNP_10088_A_27730523	NC_021161.1	Ca_Kabuli_Chr02	27730523	CC	TT	TT	INTERGENIC		
SNP_10089_A_27742973	NC_021161.1	Ca_Kabuli_Chr02	27742973	TT	GG	GG	INTERGENIC		
SNP_10090_A_27786380	NC_021161.1	Ca_Kabuli_Chr02	27786380	CC	TT	TT	INTERGENIC		
SNP_10092_A_27805999	NC_021161.1	Ca_Kabuli_Chr02	27805999	TT	CC	CC	URR	101500064	uncharacterized LOC101500064
SNP_10093_A_27887836	NC_021161.1	Ca_Kabuli_Chr02	27887836	TT	CC	CC	INTERGENIC		
SNP_10094_A_27888404	NC_021161.1	Ca_Kabuli_Chr02	27888404	AA	CC	CC	INTERGENIC		
SNP_10095_A_27888412	NC_021161.1	Ca_Kabuli_Chr02	27888412	AA	CC	CC	INTERGENIC		
SNP_10096_A_27930997	NC_021161.1	Ca_Kabuli_Chr02	27930997	GG	AA	AA	SYNONYMOUS_CODING	101510114	protein FAR1-RELATED SEQUENCE 5-like
SNP_10097_A_27964916	NC_021161.1	Ca_Kabuli_Chr02	27964916	CC	TT	TT	INTERGENIC		
SNP_10098_A_27964957	NC_021161.1	Ca_Kabuli_Chr02	27964957	AA	GG	GG	INTERGENIC		
SNP_10099_A_27965072	NC_021161.1	Ca_Kabuli_Chr02	27965072	TT	CC	CC	INTERGENIC		
SNP_10100_A_27965149	NC_021161.1	Ca_Kabuli_Chr02	27965149	GG	CC	CC	INTERGENIC		
SNP_10101_A_27965204	NC_021161.1	Ca_Kabuli_Chr02	27965204	GG	AA	AA	INTERGENIC		
SNP_10102_A_27965255	NC_021161.1	Ca_Kabuli_Chr02	27965255	GG	TT	TT	INTERGENIC		
SNP_10103_A_27965264	NC_021161.1	Ca_Kabuli_Chr02	27965264	AA	GG	GG	INTERGENIC		
SNP_10104_A_27965291	NC_021161.1	Ca_Kabuli_Chr02	27965291	TT	CC	CC	INTERGENIC		
SNP_10105_A_27965332	NC_021161.1	Ca_Kabuli_Chr02	27965332	AA	CC	CC	INTERGENIC		
SNP_10106_A_27965344	NC_021161.1	Ca_Kabuli_Chr02	27965344	CC	TT	TT	INTERGENIC		
SNP_10107_A_27965347	NC_021161.1	Ca_Kabuli_Chr02	27965347	GG	AA	AA	INTERGENIC		
SNP_10108_A_27965363	NC_021161.1	Ca_Kabuli_Chr02	27965363	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10109_A_28038040	NC_021161.1	Ca_Kabuli_Chr02	28038040	AA	TT	TT	INTERGENIC		
SNP_10110_A_28089609	NC_021161.1	Ca_Kabuli_Chr02	28089609	TT	CC	CC	URR	101513117	phytoene synthase 2, chloroplastic
SNP_10111_A_28143723	NC_021161.1	Ca_Kabuli_Chr02	28143723	CC	TT	TT	INTERGENIC		
SNP_10112_A_28144081	NC_021161.1	Ca_Kabuli_Chr02	28144081	AA	GG	GG	INTERGENIC		
SNP_10113_A_28148586	NC_021161.1	Ca_Kabuli_Chr02	28148586	CC	TT	TT	INTERGENIC		
SNP_10115_A_28163192	NC_021161.1	Ca_Kabuli_Chr02	28163192	AA	TT	TT	URR	101488702	protein REVEILLE 2
SNP_10116_A_28174253	NC_021161.1	Ca_Kabuli_Chr02	28174253	TT	AA	AA	INTERGENIC		
SNP_10117_A_28174254	NC_021161.1	Ca_Kabuli_Chr02	28174254	GG	TT	TT	INTERGENIC		
SNP_10119_A_28240429	NC_021161.1	Ca_Kabuli_Chr02	28240429	CC	AA	AA	INTERGENIC		
SNP_10120_A_28252190	NC_021161.1	Ca_Kabuli_Chr02	28252190	CC	TT	TT	INTERGENIC		
SNP_10121_A_28252192	NC_021161.1	Ca_Kabuli_Chr02	28252192	CC	AA	AA	INTERGENIC		
SNP_10122_A_28252213	NC_021161.1	Ca_Kabuli_Chr02	28252213	CC	GG	GG	INTERGENIC		
SNP_10123_A_28252259	NC_021161.1	Ca_Kabuli_Chr02	28252259	TT	AA	AA	INTERGENIC		
SNP_10124_A_28252263	NC_021161.1	Ca_Kabuli_Chr02	28252263	AA	GG	GG	INTERGENIC		
SNP_10125_A_28252265	NC_021161.1	Ca_Kabuli_Chr02	28252265	AA	TT	TT	INTERGENIC		
SNP_10126_A_28252267	NC_021161.1	Ca_Kabuli_Chr02	28252267	AA	TT	TT	INTERGENIC		
SNP_10127_A_28252269	NC_021161.1	Ca_Kabuli_Chr02	28252269	TT	CC	CC	INTERGENIC		
SNP_10128_A_28252537	NC_021161.1	Ca_Kabuli_Chr02	28252537	GG	AA	AA	INTERGENIC		
SNP_10129_A_28252574	NC_021161.1	Ca_Kabuli_Chr02	28252574	TT	GG	GG	INTERGENIC		
SNP_10130_A_28252608	NC_021161.1	Ca_Kabuli_Chr02	28252608	CC	TT	TT	INTERGENIC		
SNP_10131_A_28252622	NC_021161.1	Ca_Kabuli_Chr02	28252622	CC	TT	TT	INTERGENIC		
SNP_10132_A_28252635	NC_021161.1	Ca_Kabuli_Chr02	28252635	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10133_A_28252662	NC_021161.1	Ca_Kabuli_Chr02	28252662	AA	TT	TT	INTERGENIC			
SNP_10134_A_28252782	NC_021161.1	Ca_Kabuli_Chr02	28252782	TT	AA	AA	INTERGENIC			
SNP_10135_A_28255397	NC_021161.1	Ca_Kabuli_Chr02	28255397	CC	TT	TT	INTERGENIC			
SNP_10136_A_28255405	NC_021161.1	Ca_Kabuli_Chr02	28255405	TT	CC	CC	INTERGENIC			
SNP_10137_A_28259766	NC_021161.1	Ca_Kabuli_Chr02	28259766	CC	AA	AA	INTERGENIC			
SNP_10138_A_28262543	NC_021161.1	Ca_Kabuli_Chr02	28262543	AA	CC	CC	INTERGENIC			
SNP_10139_A_28262677	NC_021161.1	Ca_Kabuli_Chr02	28262677	GG	TT	TT	INTERGENIC			
SNP_10140_A_28262687	NC_021161.1	Ca_Kabuli_Chr02	28262687	GG	TT	TT	INTERGENIC			
SNP_10141_A_28262741	NC_021161.1	Ca_Kabuli_Chr02	28262741	CC	AA	AA	INTERGENIC			
SNP_10142_A_28262742	NC_021161.1	Ca_Kabuli_Chr02	28262742	TT	CC	CC	INTERGENIC			
SNP_10143_A_28262743	NC_021161.1	Ca_Kabuli_Chr02	28262743	GG	AA	AA	INTERGENIC			
SNP_10144_A_28262908	NC_021161.1	Ca_Kabuli_Chr02	28262908	CC	AA	AA	INTERGENIC			
SNP_10145_A_28262956	NC_021161.1	Ca_Kabuli_Chr02	28262956	TT	GG	GG	INTERGENIC			
SNP_10146_A_28262999	NC_021161.1	Ca_Kabuli_Chr02	28262999	TT	GG	GG	INTERGENIC			
SNP_10147_A_28263061	NC_021161.1	Ca_Kabuli_Chr02	28263061	AA	GG	GG	INTERGENIC			
SNP_10148_A_28263068	NC_021161.1	Ca_Kabuli_Chr02	28263068	TT	GG	GG	INTERGENIC			
SNP_10149_A_28263130	NC_021161.1	Ca_Kabuli_Chr02	28263130	GG	AA	AA	INTERGENIC			
SNP_10150_A_28263142	NC_021161.1	Ca_Kabuli_Chr02	28263142	TT	CC	CC	INTERGENIC			
SNP_10151_A_28263153	NC_021161.1	Ca_Kabuli_Chr02	28263153	TT	CC	CC	INTERGENIC			
SNP_10152_A_28284395	NC_021161.1	Ca_Kabuli_Chr02	28284395	GG	TT	TT	INTERGENIC			
SNP_10153_A_28338566	NC_021161.1	Ca_Kabuli_Chr02	28338566	CC	TT	TT	INTERGENIC			
SNP_10154_A_28392565	NC_021161.1	Ca_Kabuli_Chr02	28392565	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10155_A_28392605	NC_021161.1	Ca_Kabuli_Chr02	28392605	TT	CC	CC	INTERGENIC			
SNP_10156_A_28395901	NC_021161.1	Ca_Kabuli_Chr02	28395901	AA	TT	TT	INTERGENIC			
SNP_10157_A_28395975	NC_021161.1	Ca_Kabuli_Chr02	28395975	AA	GG	GG	INTERGENIC			
SNP_10158_A_28396018	NC_021161.1	Ca_Kabuli_Chr02	28396018	CC	GG	GG	INTERGENIC			
SNP_10159_A_28396088	NC_021161.1	Ca_Kabuli_Chr02	28396088	GG	AA	AA	INTERGENIC			
SNP_10160_A_28396172	NC_021161.1	Ca_Kabuli_Chr02	28396172	GG	AA	AA	INTERGENIC			
SNP_10161_A_28396257	NC_021161.1	Ca_Kabuli_Chr02	28396257	GG	AA	AA	INTERGENIC			
SNP_10162_A_28396288	NC_021161.1	Ca_Kabuli_Chr02	28396288	AA	TT	TT	INTERGENIC			
SNP_10163_A_28396386	NC_021161.1	Ca_Kabuli_Chr02	28396386	GG	CC	CC	INTERGENIC			
SNP_10164_A_28396403	NC_021161.1	Ca_Kabuli_Chr02	28396403	CC	TT	TT	INTERGENIC			
SNP_10165_A_28416560	NC_021161.1	Ca_Kabuli_Chr02	28416560	AA	GG	GG	INTERGENIC			
SNP_10166_A_28465218	NC_021161.1	Ca_Kabuli_Chr02	28465218	AA	GG	GG	INTERGENIC			
SNP_10168_A_28465280	NC_021161.1	Ca_Kabuli_Chr02	28465280	AA	CC	CC	INTERGENIC			
SNP_10169_A_28465321	NC_021161.1	Ca_Kabuli_Chr02	28465321	AA	GG	GG	INTERGENIC			
SNP_10171_A_28465397	NC_021161.1	Ca_Kabuli_Chr02	28465397	TT	CC	CC	INTERGENIC			
SNP_10173_A_28465525	NC_021161.1	Ca_Kabuli_Chr02	28465525	AA	GG	GG	INTERGENIC			
SNP_10175_A_28465638	NC_021161.1	Ca_Kabuli_Chr02	28465638	GG	AA	AA	INTERGENIC			
SNP_10176_A_28465687	NC_021161.1	Ca_Kabuli_Chr02	28465687	GG	AA	AA	INTERGENIC			
SNP_10177_A_28498024	NC_021161.1	Ca_Kabuli_Chr02	28498024	TT	CC	CC	INTERGENIC			
SNP_10178_A_28498108	NC_021161.1	Ca_Kabuli_Chr02	28498108	AA	TT	TT	INTERGENIC			
SNP_10179_A_28498136	NC_021161.1	Ca_Kabuli_Chr02	28498136	AA	GG	GG	INTERGENIC			
SNP_10180_A_28498478	NC_021161.1	Ca_Kabuli_Chr02	28498478	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10181_A_28501064	NC_021161.1	Ca_Kabuli_Chr02	28501064	AA	CC	CC	INTERGENIC		
SNP_10182_A_28501122	NC_021161.1	Ca_Kabuli_Chr02	28501122	TT	CC	CC	INTERGENIC		
SNP_10183_A_28501160	NC_021161.1	Ca_Kabuli_Chr02	28501160	GG	CC	CC	INTERGENIC		
SNP_10184_A_28501554	NC_021161.1	Ca_Kabuli_Chr02	28501554	AA	GG	GG	INTERGENIC		
SNP_10185_A_28501588	NC_021161.1	Ca_Kabuli_Chr02	28501588	TT	CC	CC	INTERGENIC		
SNP_10186_A_28512929	NC_021161.1	Ca_Kabuli_Chr02	28512929	CC	TT	TT	INTERGENIC		
SNP_10189_A_28569292	NC_021161.1	Ca_Kabuli_Chr02	28569292	GG	AA	AA	INTERGENIC		
SNP_10190_A_28583283	NC_021161.1	Ca_Kabuli_Chr02	28583283	CC	TT	TT	INTERGENIC		
SNP_10191_A_28583316	NC_021161.1	Ca_Kabuli_Chr02	28583316	TT	CC	CC	INTERGENIC		
SNP_10193_A_28623169	NC_021161.1	Ca_Kabuli_Chr02	28623169	CC	TT	TT	INTERGENIC		
SNP_10194_A_28630905	NC_021161.1	Ca_Kabuli_Chr02	28630905	CC	TT	TT	INTERGENIC		
SNP_10195_A_28632092	NC_021161.1	Ca_Kabuli_Chr02	28632092	AA	TT	TT	INTERGENIC		
SNP_10196_A_28632168	NC_021161.1	Ca_Kabuli_Chr02	28632168	CC	GG	GG	INTERGENIC		
SNP_10197_A_28632202	NC_021161.1	Ca_Kabuli_Chr02	28632202	TT	CC	CC	INTERGENIC		
SNP_10198_A_28632223	NC_021161.1	Ca_Kabuli_Chr02	28632223	GG	AA	AA	INTERGENIC		
SNP_10199_A_28667586	NC_021161.1	Ca_Kabuli_Chr02	28667586	TT	GG	GG	INTRON	101509363	uncharacterized LOC101509363
SNP_10200_A_28669556	NC_021161.1	Ca_Kabuli_Chr02	28669556	CC	TT	TT	INTRON	101509363	uncharacterized LOC101509363
SNP_10201_A_28669585	NC_021161.1	Ca_Kabuli_Chr02	28669585	TT	CC	CC	INTRON	101509363	uncharacterized LOC101509363
SNP_10202_A_28676502	NC_021161.1	Ca_Kabuli_Chr02	28676502	GG	TT	TT	INTRON	101509363	uncharacterized LOC101509363
SNP_10203_A_28736389	NC_021161.1	Ca_Kabuli_Chr02	28736389	TT	CC	CC	INTERGENIC		
SNP_10204_A_28740282	NC_021161.1	Ca_Kabuli_Chr02	28740282	TT	AA	AA	INTERGENIC		
SNP_10205_A_28751373	NC_021161.1	Ca_Kabuli_Chr02	28751373	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10206_A_28794499	NC_021161.1	Ca_Kabuli_Chr02	28794499	GG	AA	AA	INTERGENIC			
SNP_10207_A_28817962	NC_021161.1	Ca_Kabuli_Chr02	28817962	CC	TT	TT	INTERGENIC			
SNP_10208_A_28832285	NC_021161.1	Ca_Kabuli_Chr02	28832285	TT	CC	CC	INTERGENIC			
SNP_10209_A_28833707	NC_021161.1	Ca_Kabuli_Chr02	28833707	GG	AA	AA	INTERGENIC			
SNP_10211_A_28889331	NC_021161.1	Ca_Kabuli_Chr02	28889331	CC	TT	TT	INTERGENIC			
SNP_10212_A_28889354	NC_021161.1	Ca_Kabuli_Chr02	28889354	TT	CC	CC	INTERGENIC			
SNP_10213_A_28889400	NC_021161.1	Ca_Kabuli_Chr02	28889400	AA	GG	GG	INTERGENIC			
SNP_10214_A_28889456	NC_021161.1	Ca_Kabuli_Chr02	28889456	TT	CC	CC	INTERGENIC			
SNP_10215_A_28889475	NC_021161.1	Ca_Kabuli_Chr02	28889475	TT	CC	CC	INTERGENIC			
SNP_10216_A_28889479	NC_021161.1	Ca_Kabuli_Chr02	28889479	AA	GG	GG	INTERGENIC			
SNP_10217_A_28889522	NC_021161.1	Ca_Kabuli_Chr02	28889522	AA	GG	GG	INTERGENIC			
SNP_10218_A_28889590	NC_021161.1	Ca_Kabuli_Chr02	28889590	AA	GG	GG	INTERGENIC			
SNP_10219_A_28889615	NC_021161.1	Ca_Kabuli_Chr02	28889615	AA	GG	GG	INTERGENIC			
SNP_10220_A_28890143	NC_021161.1	Ca_Kabuli_Chr02	28890143	CC	TT	TT	INTERGENIC			
SNP_10221_A_28891721	NC_021161.1	Ca_Kabuli_Chr02	28891721	TT	GG	GG	INTERGENIC			
SNP_10222_A_28897834	NC_021161.1	Ca_Kabuli_Chr02	28897834	AA	TT	TT	INTERGENIC			
SNP_10223_A_28954760	NC_021161.1	Ca_Kabuli_Chr02	28954760	GG	AA	AA	INTERGENIC			
SNP_10224_A_28979907	NC_021161.1	Ca_Kabuli_Chr02	28979907	CC	AA	AA	INTERGENIC			
SNP_10225_A_29019288	NC_021161.1	Ca_Kabuli_Chr02	29019288	AA	GG	GG	INTERGENIC			
SNP_10226_A_29059832	NC_021161.1	Ca_Kabuli_Chr02	29059832	TT	CC	CC	INTERGENIC			
SNP_10227_A_29059856	NC_021161.1	Ca_Kabuli_Chr02	29059856	AA	GG	GG	INTERGENIC			
SNP_10228_A_29060081	NC_021161.1	Ca_Kabuli_Chr02	29060081	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10229_A_29060172	NC_021161.1	Ca_Kabuli_Chr02	29060172	TT	GG	GG	INTERGENIC			
SNP_10230_A_29060284	NC_021161.1	Ca_Kabuli_Chr02	29060284	TT	GG	GG	INTERGENIC			
SNP_10231_A_29060325	NC_021161.1	Ca_Kabuli_Chr02	29060325	GG	TT	TT	INTERGENIC			
SNP_10232_A_29060339	NC_021161.1	Ca_Kabuli_Chr02	29060339	TT	AA	AA	INTERGENIC			
SNP_10233_A_29060396	NC_021161.1	Ca_Kabuli_Chr02	29060396	CC	TT	TT	INTERGENIC			
SNP_10234_A_29060407	NC_021161.1	Ca_Kabuli_Chr02	29060407	AA	TT	TT	INTERGENIC			
SNP_10235_A_29060422	NC_021161.1	Ca_Kabuli_Chr02	29060422	GG	TT	TT	INTERGENIC			
SNP_10236_A_29068989	NC_021161.1	Ca_Kabuli_Chr02	29068989	CC	TT	TT	INTERGENIC			
SNP_10237_A_29069016	NC_021161.1	Ca_Kabuli_Chr02	29069016	TT	CC	CC	INTERGENIC			
SNP_10238_A_29070802	NC_021161.1	Ca_Kabuli_Chr02	29070802	AA	CC	CC	INTERGENIC			
SNP_10239_A_29071105	NC_021161.1	Ca_Kabuli_Chr02	29071105	TT	CC	CC	INTERGENIC			
SNP_10240_A_29071270	NC_021161.1	Ca_Kabuli_Chr02	29071270	TT	CC	CC	INTERGENIC			
SNP_10241_A_29071303	NC_021161.1	Ca_Kabuli_Chr02	29071303	GG	CC	CC	INTERGENIC			
SNP_10242_A_29071501	NC_021161.1	Ca_Kabuli_Chr02	29071501	TT	GG	GG	INTERGENIC			
SNP_10243_A_29071803	NC_021161.1	Ca_Kabuli_Chr02	29071803	TT	CC	CC	INTERGENIC			
SNP_10244_A_29128863	NC_021161.1	Ca_Kabuli_Chr02	29128863	CC	TT	TT	INTERGENIC			
SNP_10245_A_29129330	NC_021161.1	Ca_Kabuli_Chr02	29129330	TT	GG	GG	INTERGENIC			
SNP_10246_A_29129342	NC_021161.1	Ca_Kabuli_Chr02	29129342	GG	TT	TT	INTERGENIC			
SNP_10247_A_29129348	NC_021161.1	Ca_Kabuli_Chr02	29129348	GG	AA	AA	INTERGENIC			
SNP_10248_A_29129366	NC_021161.1	Ca_Kabuli_Chr02	29129366	AA	GG	GG	INTERGENIC			
SNP_10249_A_29129398	NC_021161.1	Ca_Kabuli_Chr02	29129398	AA	TT	TT	INTERGENIC			
SNP_10250_A_29129407	NC_021161.1	Ca_Kabuli_Chr02	29129407	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10251_A_29129421	NC_021161.1	Ca_Kabuli_Chr02	29129421	TT	AA	AA	INTERGENIC		
SNP_10252_A_29129441	NC_021161.1	Ca_Kabuli_Chr02	29129441	CC	GG	GG	INTERGENIC		
SNP_10253_A_29129442	NC_021161.1	Ca_Kabuli_Chr02	29129442	TT	AA	AA	INTERGENIC		
SNP_10254_A_29129774	NC_021161.1	Ca_Kabuli_Chr02	29129774	GG	CC	CC	INTERGENIC		
SNP_10255_A_29129795	NC_021161.1	Ca_Kabuli_Chr02	29129795	GG	TT	TT	INTERGENIC		
SNP_10256_A_29170479	NC_021161.1	Ca_Kabuli_Chr02	29170479	AA	GG	GG	INTERGENIC		
SNP_10257_A_29181246	NC_021161.1	Ca_Kabuli_Chr02	29181246	AA	GG	GG	INTRON	101506152	potassium channel SKOR
SNP_10258_A_29215192	NC_021161.1	Ca_Kabuli_Chr02	29215192	TT	CC	CC	INTERGENIC		
SNP_10259_A_29215239	NC_021161.1	Ca_Kabuli_Chr02	29215239	TT	CC	CC	INTERGENIC		
SNP_10260_A_29215729	NC_021161.1	Ca_Kabuli_Chr02	29215729	CC	TT	TT	INTERGENIC		
SNP_10261_A_29215730	NC_021161.1	Ca_Kabuli_Chr02	29215730	CC	TT	TT	INTERGENIC		
SNP_10262_A_29215736	NC_021161.1	Ca_Kabuli_Chr02	29215736	AA	GG	GG	INTERGENIC		
SNP_10263_A_29215751	NC_021161.1	Ca_Kabuli_Chr02	29215751	CC	GG	GG	INTERGENIC		
SNP_10268_A_29238615	NC_021161.1	Ca_Kabuli_Chr02	29238615	CC	TT	TT	INTERGENIC		
SNP_10269_A_29238681	NC_021161.1	Ca_Kabuli_Chr02	29238681	CC	TT	TT	INTERGENIC		
SNP_10270_A_29238699	NC_021161.1	Ca_Kabuli_Chr02	29238699	CC	GG	GG	INTERGENIC		
SNP_10271_A_29238721	NC_021161.1	Ca_Kabuli_Chr02	29238721	AA	TT	TT	INTERGENIC		
SNP_10272_A_29238778	NC_021161.1	Ca_Kabuli_Chr02	29238778	AA	GG	GG	INTERGENIC		
SNP_10273_A_29239071	NC_021161.1	Ca_Kabuli_Chr02	29239071	CC	TT	TT	INTERGENIC		
SNP_10274_A_29239142	NC_021161.1	Ca_Kabuli_Chr02	29239142	GG	TT	TT	INTERGENIC		
SNP_10275_A_29239175	NC_021161.1	Ca_Kabuli_Chr02	29239175	AA	GG	GG	INTERGENIC		
SNP_10276_A_29239219	NC_021161.1	Ca_Kabuli_Chr02	29239219	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10277_A_29239294	NC_021161.1	Ca_Kabuli_Chr02	29239294	AA	CC	CC	INTERGENIC			
SNP_10278_A_29239467	NC_021161.1	Ca_Kabuli_Chr02	29239467	GG	AA	AA	INTERGENIC			
SNP_10279_A_29239557	NC_021161.1	Ca_Kabuli_Chr02	29239557	GG	AA	AA	INTERGENIC			
SNP_10280_A_29239560	NC_021161.1	Ca_Kabuli_Chr02	29239560	GG	AA	AA	INTERGENIC			
SNP_10281_A_29239612	NC_021161.1	Ca_Kabuli_Chr02	29239612	GG	AA	AA	INTERGENIC			
SNP_10282_A_29239722	NC_021161.1	Ca_Kabuli_Chr02	29239722	CC	TT	TT	INTERGENIC			
SNP_10283_A_29239727	NC_021161.1	Ca_Kabuli_Chr02	29239727	AA	GG	GG	INTERGENIC			
SNP_10284_A_29239857	NC_021161.1	Ca_Kabuli_Chr02	29239857	TT	CC	CC	INTERGENIC			
SNP_10285_A_29239937	NC_021161.1	Ca_Kabuli_Chr02	29239937	AA	GG	GG	INTERGENIC			
SNP_10287_A_29240105	NC_021161.1	Ca_Kabuli_Chr02	29240105	CC	TT	TT	INTERGENIC			
SNP_10289_A_29240164	NC_021161.1	Ca_Kabuli_Chr02	29240164	TT	CC	CC	INTERGENIC			
SNP_10290_A_29240168	NC_021161.1	Ca_Kabuli_Chr02	29240168	TT	GG	GG	INTERGENIC			
SNP_10291_A_29240179	NC_021161.1	Ca_Kabuli_Chr02	29240179	GG	AA	AA	INTERGENIC			
SNP_10294_A_29240394	NC_021161.1	Ca_Kabuli_Chr02	29240394	CC	TT	TT	INTERGENIC			
SNP_10295_A_29240445	NC_021161.1	Ca_Kabuli_Chr02	29240445	TT	CC	CC	INTERGENIC			
SNP_10296_A_29240513	NC_021161.1	Ca_Kabuli_Chr02	29240513	TT	CC	CC	INTERGENIC			
SNP_10297_A_29240527	NC_021161.1	Ca_Kabuli_Chr02	29240527	AA	GG	GG	INTERGENIC			
SNP_10298_A_29240641	NC_021161.1	Ca_Kabuli_Chr02	29240641	GG	TT	TT	INTERGENIC			
SNP_10299_A_29240647	NC_021161.1	Ca_Kabuli_Chr02	29240647	GG	AA	AA	INTERGENIC			
SNP_10300_A_29240660	NC_021161.1	Ca_Kabuli_Chr02	29240660	AA	GG	GG	INTERGENIC			
SNP_10301_A_29240674	NC_021161.1	Ca_Kabuli_Chr02	29240674	GG	AA	AA	INTERGENIC			
SNP_10302_A_29240808	NC_021161.1	Ca_Kabuli_Chr02	29240808	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10303_A_29241002	NC_021161.1	Ca_Kabuli_Chr02	29241002	TT	AA	AA	INTERGENIC		
SNP_10304_A_29241003	NC_021161.1	Ca_Kabuli_Chr02	29241003	GG	TT	TT	INTERGENIC		
SNP_10306_A_29253002	NC_021161.1	Ca_Kabuli_Chr02	29253002	GG	AA	AA	INTERGENIC		
SNP_10308_A_29253155	NC_021161.1	Ca_Kabuli_Chr02	29253155	CC	TT	TT	DRR	101513862	Unknown function
SNP_10309_A_29276614	NC_021161.1	Ca_Kabuli_Chr02	29276614	CC	AA	AA	INTERGENIC		
SNP_10310_A_29278625	NC_021161.1	Ca_Kabuli_Chr02	29278625	GG	AA	AA	INTERGENIC		
SNP_10311_A_29278681	NC_021161.1	Ca_Kabuli_Chr02	29278681	GG	AA	AA	INTERGENIC		
SNP_10312_A_29278940	NC_021161.1	Ca_Kabuli_Chr02	29278940	TT	AA	AA	INTERGENIC		
SNP_10313_A_29279508	NC_021161.1	Ca_Kabuli_Chr02	29279508	TT	CC	CC	INTERGENIC		
SNP_10314_A_29289263	NC_021161.1	Ca_Kabuli_Chr02	29289263	AA	GG	GG	INTERGENIC		
SNP_10315_A_29289300	NC_021161.1	Ca_Kabuli_Chr02	29289300	TT	CC	CC	INTERGENIC		
SNP_10316_A_29289590	NC_021161.1	Ca_Kabuli_Chr02	29289590	AA	GG	GG	INTERGENIC		
SNP_10318_A_29408888	NC_021161.1	Ca_Kabuli_Chr02	29408888	CC	TT	TT	INTERGENIC		
SNP_10319_A_29409210	NC_021161.1	Ca_Kabuli_Chr02	29409210	TT	CC	CC	INTERGENIC		
SNP_10320_A_29410077	NC_021161.1	Ca_Kabuli_Chr02	29410077	AA	GG	GG	INTERGENIC		
SNP_10321_A_29412093	NC_021161.1	Ca_Kabuli_Chr02	29412093	AA	GG	GG	INTERGENIC		
SNP_10322_A_29416805	NC_021161.1	Ca_Kabuli_Chr02	29416805	AA	TT	TT	INTERGENIC		
SNP_10323_A_29416838	NC_021161.1	Ca_Kabuli_Chr02	29416838	AA	GG	GG	INTERGENIC		
SNP_10324_A_29416868	NC_021161.1	Ca_Kabuli_Chr02	29416868	GG	AA	AA	INTERGENIC		
SNP_10325_A_29417235	NC_021161.1	Ca_Kabuli_Chr02	29417235	GG	TT	TT	INTERGENIC		
SNP_10326_A_29444196	NC_021161.1	Ca_Kabuli_Chr02	29444196	AA	GG	GG	INTERGENIC		
SNP_10328_A_29444490	NC_021161.1	Ca_Kabuli_Chr02	29444490	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10329_A_29444608	NC_021161.1	Ca_Kabuli_Chr02	29444608	AA	CC	CC	INTERGENIC			
SNP_10330_A_29445576	NC_021161.1	Ca_Kabuli_Chr02	29445576	AA	TT	TT	INTERGENIC			
SNP_10331_A_29445605	NC_021161.1	Ca_Kabuli_Chr02	29445605	GG	CC	CC	INTERGENIC			
SNP_10332_A_29445618	NC_021161.1	Ca_Kabuli_Chr02	29445618	GG	CC	CC	INTERGENIC			
SNP_10334_A_29445770	NC_021161.1	Ca_Kabuli_Chr02	29445770	AA	GG	GG	INTERGENIC			
SNP_10336_A_29446081	NC_021161.1	Ca_Kabuli_Chr02	29446081	AA	GG	GG	INTERGENIC			
SNP_10337_A_29446159	NC_021161.1	Ca_Kabuli_Chr02	29446159	GG	TT	TT	INTERGENIC			
SNP_10338_A_29446260	NC_021161.1	Ca_Kabuli_Chr02	29446260	TT	CC	CC	INTERGENIC			
SNP_10339_A_29446261	NC_021161.1	Ca_Kabuli_Chr02	29446261	GG	TT	TT	INTERGENIC			
SNP_10340_A_29446272	NC_021161.1	Ca_Kabuli_Chr02	29446272	CC	AA	AA	INTERGENIC			
SNP_10341_A_29447633	NC_021161.1	Ca_Kabuli_Chr02	29447633	CC	TT	TT	INTERGENIC			
SNP_10342_A_29504254	NC_021161.1	Ca_Kabuli_Chr02	29504254	TT	CC	CC	INTERGENIC			
SNP_10344_A_29607919	NC_021161.1	Ca_Kabuli_Chr02	29607919	GG	AA	AA	INTERGENIC			
SNP_10346_A_29609575	NC_021161.1	Ca_Kabuli_Chr02	29609575	GG	CC	CC	DRR	101493055	protein AAR2 homolog	
SNP_10347_A_29644841	NC_021161.1	Ca_Kabuli_Chr02	29644841	CC	TT	TT	INTERGENIC			
SNP_10348_A_29644848	NC_021161.1	Ca_Kabuli_Chr02	29644848	AA	TT	TT	INTERGENIC			
SNP_10349_A_29644870	NC_021161.1	Ca_Kabuli_Chr02	29644870	CC	AA	AA	INTERGENIC			
SNP_10350_A_29644871	NC_021161.1	Ca_Kabuli_Chr02	29644871	TT	CC	CC	INTERGENIC			
SNP_10351_A_29644872	NC_021161.1	Ca_Kabuli_Chr02	29644872	AA	TT	TT	INTERGENIC			
SNP_10352_A_29644885	NC_021161.1	Ca_Kabuli_Chr02	29644885	TT	CC	AA	INTERGENIC			
SNP_10353_A_29644900	NC_021161.1	Ca_Kabuli_Chr02	29644900	AA	CC	CC	INTERGENIC			
SNP_10354_A_29647507	NC_021161.1	Ca_Kabuli_Chr02	29647507	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10355_A_29653901	NC_021161.1	Ca_Kabuli_Chr02	29653901	CC	AA	AA	INTERGENIC			
SNP_10356_A_29662146	NC_021161.1	Ca_Kabuli_Chr02	29662146	TT	AA	AA	INTERGENIC			
SNP_10357_A_29679306	NC_021161.1	Ca_Kabuli_Chr02	29679306	TT	AA	AA	INTERGENIC			
SNP_10358_A_29734843	NC_021161.1	Ca_Kabuli_Chr02	29734843	TT	AA	AA	INTERGENIC			
SNP_10359_A_29737528	NC_021161.1	Ca_Kabuli_Chr02	29737528	CC	GG	GG	INTERGENIC			
SNP_10360_A_29737529	NC_021161.1	Ca_Kabuli_Chr02	29737529	GG	AA	AA	INTERGENIC			
SNP_10361_A_29737657	NC_021161.1	Ca_Kabuli_Chr02	29737657	CC	TT	TT	INTERGENIC			
SNP_10362_A_29737689	NC_021161.1	Ca_Kabuli_Chr02	29737689	TT	CC	CC	INTERGENIC			
SNP_10363_A_29737749	NC_021161.1	Ca_Kabuli_Chr02	29737749	CC	TT	TT	INTERGENIC			
SNP_10364_A_29737750	NC_021161.1	Ca_Kabuli_Chr02	29737750	TT	CC	CC	INTERGENIC			
SNP_10365_A_29737889	NC_021161.1	Ca_Kabuli_Chr02	29737889	CC	TT	TT	INTERGENIC			
SNP_10366_A_29738013	NC_021161.1	Ca_Kabuli_Chr02	29738013	AA	CC	CC	INTERGENIC			
SNP_10367_A_29738028	NC_021161.1	Ca_Kabuli_Chr02	29738028	AA	GG	GG	INTERGENIC			
SNP_10368_A_29738092	NC_021161.1	Ca_Kabuli_Chr02	29738092	TT	CC	CC	INTERGENIC			
SNP_10369_A_29738100	NC_021161.1	Ca_Kabuli_Chr02	29738100	CC	TT	TT	INTERGENIC			
SNP_10370_A_29738109	NC_021161.1	Ca_Kabuli_Chr02	29738109	CC	AA	AA	INTERGENIC			
SNP_10371_A_29738141	NC_021161.1	Ca_Kabuli_Chr02	29738141	TT	CC	CC	INTERGENIC			
SNP_10372_A_29738208	NC_021161.1	Ca_Kabuli_Chr02	29738208	GG	TT	TT	DRR	101508726	Unknown function	
SNP_10373_A_29738837	NC_021161.1	Ca_Kabuli_Chr02	29738837	CC	AA	AA	DRR	101508726	Unknown function	
SNP_10374_A_29738991	NC_021161.1	Ca_Kabuli_Chr02	29738991	CC	AA	AA	DRR	101508726	Unknown function	
SNP_10375_A_29739240	NC_021161.1	Ca_Kabuli_Chr02	29739240	GG	AA	AA	NON_SYNONYMOUS_CODING	101508726	Unknown function	
SNP_10376_A_29742485	NC_021161.1	Ca_Kabuli_Chr02	29742485	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10377_A_29829391	NC_021161.1	Ca_Kabuli_Chr02	29829391	GG	AA	AA	URR	101497024	Unknown function
SNP_10378_A_29829777	NC_021161.1	Ca_Kabuli_Chr02	29829777	TT	CC	CC	URR	101497024	Unknown function
SNP_10380_A_29857545	NC_021161.1	Ca_Kabuli_Chr02	29857545	CC	TT	TT	INTERGENIC		
SNP_10381_A_29912209	NC_021161.1	Ca_Kabuli_Chr02	29912209	CC	GG	GG	DRR	101499754	AP3-complex subunit beta-A
SNP_10382_A_29962717	NC_021161.1	Ca_Kabuli_Chr02	29962717	GG	AA	AA	URR	101502195	protein AAR2 homolog
SNP_10384_A_29962796	NC_021161.1	Ca_Kabuli_Chr02	29962796	AA	GG	GG	URR	101502195	protein AAR2 homolog
SNP_10385_A_29964135	NC_021161.1	Ca_Kabuli_Chr02	29964135	CC	AA	AA	URR	101502195	protein AAR2 homolog
SNP_10386_A_29964711	NC_021161.1	Ca_Kabuli_Chr02	29964711	TT	AA	AA	INTERGENIC		
SNP_10387_A_30065245	NC_021161.1	Ca_Kabuli_Chr02	30065245	GG	AA	AA	INTERGENIC		
SNP_10388_A_30071725	NC_021161.1	Ca_Kabuli_Chr02	30071725	AA	GG	GG	INTERGENIC		
SNP_10389_A_30075834	NC_021161.1	Ca_Kabuli_Chr02	30075834	TT	CC	CC	INTERGENIC		
SNP_10390_A_30092030	NC_021161.1	Ca_Kabuli_Chr02	30092030	GG	TT	TT	INTRON	101510980	cucumis-in-like
SNP_10391_A_30092077	NC_021161.1	Ca_Kabuli_Chr02	30092077	GG	AA	AA	INTRON	101510980	cucumis-in-like
SNP_10392_A_30092875	NC_021161.1	Ca_Kabuli_Chr02	30092875	AA	CC	CC	URR	101510980	cucumis-in-like
SNP_10393_A_30094917	NC_021161.1	Ca_Kabuli_Chr02	30094917	AA	TT	TT	INTERGENIC		
SNP_10394_A_30095148	NC_021161.1	Ca_Kabuli_Chr02	30095148	TT	AA	AA	INTERGENIC		
SNP_10395_A_30095150	NC_021161.1	Ca_Kabuli_Chr02	30095150	TT	CC	CC	INTERGENIC		
SNP_10396_A_30095622	NC_021161.1	Ca_Kabuli_Chr02	30095622	AA	GG	GG	INTERGENIC		
SNP_10399_A_30097122	NC_021161.1	Ca_Kabuli_Chr02	30097122	GG	AA	AA	INTERGENIC		
SNP_10400_A_30112419	NC_021161.1	Ca_Kabuli_Chr02	30112419	GG	AA	AA	INTRON	101511288	cucumis-in-like
SNP_10401_A_30112435	NC_021161.1	Ca_Kabuli_Chr02	30112435	CC	GG	GG	INTRON	101511288	cucumis-in-like
SNP_10403_A_30112621	NC_021161.1	Ca_Kabuli_Chr02	30112621	GG	AA	AA	INTRON	101511288	cucumis-in-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10404_A_30112661	NC_021161.1	Ca_Kabuli_Chr02	30112661	TT	GG	GG	INTRON	10151288	cucumis-in-like
SNP_10406_A_30126013	NC_021161.1	Ca_Kabuli_Chr02	30126013	TT	AA	AA	INTRON	10151288	cucumis-in-like
SNP_10407_A_30145319	NC_021161.1	Ca_Kabuli_Chr02	30145319	CC	TT	TT	DRR	101512144	uncharacterized LOC101512144
SNP_10408_A_30146046	NC_021161.1	Ca_Kabuli_Chr02	30146046	GG	AA	AA	URR	101511831	UPF0396 protein-like
SNP_10409_A_30146187	NC_021161.1	Ca_Kabuli_Chr02	30146187	GG	AA	AA	URR	101511831	UPF0396 protein-like
SNP_10410_A_30146287	NC_021161.1	Ca_Kabuli_Chr02	30146287	CC	TT	TT	URR	101511831	UPF0396 protein-like
SNP_10411_A_30146362	NC_021161.1	Ca_Kabuli_Chr02	30146362	CC	AA	AA	URR	101511831	UPF0396 protein-like
SNP_10412_A_30146363	NC_021161.1	Ca_Kabuli_Chr02	30146363	CC	AA	AA	URR	101511831	UPF0396 protein-like
SNP_10413_A_30146370	NC_021161.1	Ca_Kabuli_Chr02	30146370	TT	CC	CC	URR	101511831	UPF0396 protein-like
SNP_10414_A_30146418	NC_021161.1	Ca_Kabuli_Chr02	30146418	CC	TT	TT	URR	101511831	UPF0396 protein-like
SNP_10416_A_30146538	NC_021161.1	Ca_Kabuli_Chr02	30146538	AA	TT	TT	URR	101511831	UPF0396 protein-like
SNP_10417_A_30147134	NC_021161.1	Ca_Kabuli_Chr02	30147134	CC	TT	TT	URR	101511831	UPF0396 protein-like
SNP_10418_A_30147137	NC_021161.1	Ca_Kabuli_Chr02	30147137	CC	TT	TT	URR	101511831	UPF0396 protein-like
SNP_10420_A_30147382	NC_021161.1	Ca_Kabuli_Chr02	30147382	GG	AA	AA	URR	101511831	UPF0396 protein-like
SNP_10421_A_30147445	NC_021161.1	Ca_Kabuli_Chr02	30147445	TT	CC	CC	URR	101511831	UPF0396 protein-like
SNP_10422_A_30164761	NC_021161.1	Ca_Kabuli_Chr02	30164761	TT	CC	CC	INTERGENIC		
SNP_10423_A_30164767	NC_021161.1	Ca_Kabuli_Chr02	30164767	CC	TT	TT	INTERGENIC		
SNP_10424_A_30164942	NC_021161.1	Ca_Kabuli_Chr02	30164942	TT	AA	AA	INTERGENIC		
SNP_10425_A_30165086	NC_021161.1	Ca_Kabuli_Chr02	30165086	TT	AA	AA	INTERGENIC		
SNP_10426_A_30172866	NC_021161.1	Ca_Kabuli_Chr02	30172866	GG	CC	CC	INTERGENIC		
SNP_10427_A_30172924	NC_021161.1	Ca_Kabuli_Chr02	30172924	TT	CC	CC	INTERGENIC		
SNP_10428_A_30173691	NC_021161.1	Ca_Kabuli_Chr02	30173691	GG	AA	AA	DRR	101512469	uncharacterized LOC101512469

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10430_A_30174959	NC_021161.1	Ca_Kabuli_Chr02	30174959	CC	TT	TT	INTRON	101512469	uncharacterized LOC101512469
SNP_10431_A_30198132	NC_021161.1	Ca_Kabuli_Chr02	30198132	AA	TT	TT	INTERGENIC		
SNP_10434_A_30314523	NC_021161.1	Ca_Kabuli_Chr02	30314523	TT	AA	AA	INTERGENIC		
SNP_10435_A_30314548	NC_021161.1	Ca_Kabuli_Chr02	30314548	CC	TT	TT	INTERGENIC		
SNP_10436_A_30314576	NC_021161.1	Ca_Kabuli_Chr02	30314576	GG	AA	AA	INTERGENIC		
SNP_10437_A_30314594	NC_021161.1	Ca_Kabuli_Chr02	30314594	CC	TT	TT	INTERGENIC		
SNP_10438_A_30314650	NC_021161.1	Ca_Kabuli_Chr02	30314650	AA	GG	GG	INTERGENIC		
SNP_10439_A_30325617	NC_021161.1	Ca_Kabuli_Chr02	30325617	CC	TT	TT	URR	101514641	proline transporter 1-like
SNP_10440_A_30329361	NC_021161.1	Ca_Kabuli_Chr02	30329361	TT	CC	CC	DRR	101488831	uncharacterized protein At1g04910-like
SNP_10441_A_30336694	NC_021161.1	Ca_Kabuli_Chr02	30336694	GG	AA	AA	INTRON	101489573	60S ribosomal protein L35a-1
SNP_10442_A_30336700	NC_021161.1	Ca_Kabuli_Chr02	30336700	CC	TT	TT	INTRON	101489573	60S ribosomal protein L35a-1
SNP_10443_A_30340022	NC_021161.1	Ca_Kabuli_Chr02	30340022	CC	TT	TT	URR	101489573	60S ribosomal protein L35a-1
SNP_10444_A_30340029	NC_021161.1	Ca_Kabuli_Chr02	30340029	AA	GG	GG	URR	101489573	60S ribosomal protein L35a-1
SNP_10446_A_30342831	NC_021161.1	Ca_Kabuli_Chr02	30342831	GG	AA	AA	INTERGENIC		
SNP_10447_A_30342840	NC_021161.1	Ca_Kabuli_Chr02	30342840	AA	TT	TT	INTERGENIC		
SNP_10451_A_30343152	NC_021161.1	Ca_Kabuli_Chr02	30343152	CC	TT	TT	INTERGENIC		
SNP_10452_A_30343233	NC_021161.1	Ca_Kabuli_Chr02	30343233	CC	TT	TT	INTERGENIC		
SNP_10453_A_30343246	NC_021161.1	Ca_Kabuli_Chr02	30343246	AA	GG	GG	INTERGENIC		
SNP_10456_A_30343883	NC_021161.1	Ca_Kabuli_Chr02	30343883	TT	AA	AA	INTERGENIC		
SNP_10457_A_30343888	NC_021161.1	Ca_Kabuli_Chr02	30343888	TT	AA	AA	INTERGENIC		
SNP_10458_A_30345114	NC_021161.1	Ca_Kabuli_Chr02	30345114	GG	TT	TT	DRR	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10460_A_30346208	NC_021161.1	Ca_Kabuli_Chr02	30346208	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10461_A_30346964	NC_021161.1	Ca_Kabuli_Chr02	30346964	TT	AA	AA	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10462_A_30346976	NC_021161.1	Ca_Kabuli_Chr02	30346976	CC	TT	TT	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10463_A_30346983	NC_021161.1	Ca_Kabuli_Chr02	30346983	TT	CC	CC	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10464_A_30346987	NC_021161.1	Ca_Kabuli_Chr02	30346987	AA	TT	TT	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10465_A_30346988	NC_021161.1	Ca_Kabuli_Chr02	30346988	AA	TT	TT	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10466_A_30347927	NC_021161.1	Ca_Kabuli_Chr02	30347927	CC	TT	TT	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10467_A_30347942	NC_021161.1	Ca_Kabuli_Chr02	30347942	AA	GG	GG	INTRON	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10468_A_30348176	NC_021161.1	Ca_Kabuli_Chr02	30348176	TT	CC	CC	SYNONYMOUS_CODING	101489890	probable sugar phosphate/phosphate translocator At3g11320
SNP_10469_A_30348895	NC_021161.1	Ca_Kabuli_Chr02	30348895	AA	CC	CC	DRR	101497148	Unknown function
SNP_10470_A_30355143	NC_021161.1	Ca_Kabuli_Chr02	30355143	AA	TT	TT	DRR	101490227	uncharacterized protein At2g39920-like
SNP_10471_A_30355364	NC_021161.1	Ca_Kabuli_Chr02	30355364	GG	AA	AA	DRR	101490227	uncharacterized protein At2g39920-like
SNP_10472_A_30355368	NC_021161.1	Ca_Kabuli_Chr02	30355368	TT	AA	AA	DRR	101490227	uncharacterized protein At2g39920-like
SNP_10473_A_30355373	NC_021161.1	Ca_Kabuli_Chr02	30355373	AA	GG	GG	DRR	101490227	uncharacterized protein At2g39920-like
SNP_10474_A_30356049	NC_021161.1	Ca_Kabuli_Chr02	30356049	TT	CC	CC	URR	101497481	glucan endo-1,3-beta-glucosidase 12
SNP_10475_A_30356830	NC_021161.1	Ca_Kabuli_Chr02	30356830	GG	CC	CC	INTERGENIC		
SNP_10476_A_30357124	NC_021161.1	Ca_Kabuli_Chr02	30357124	CC	AA	AA	INTERGENIC		
SNP_10477_A_30357172	NC_021161.1	Ca_Kabuli_Chr02	30357172	CC	AA	AA	INTERGENIC		
SNP_10478_A_30357229	NC_021161.1	Ca_Kabuli_Chr02	30357229	GG	TT	TT	INTERGENIC		
SNP_10479_A_30357232	NC_021161.1	Ca_Kabuli_Chr02	30357232	GG	AA	AA	INTERGENIC		
SNP_10480_A_30358789	NC_021161.1	Ca_Kabuli_Chr02	30358789	CC	TT	TT	URR	101490227	uncharacterized protein At2g39920-like
SNP_10482_A_30363651	NC_021161.1	Ca_Kabuli_Chr02	30363651	AA	TT	TT	DRR	101491505	laccase-4-like
SNP_10483_A_30364111	NC_021161.1	Ca_Kabuli_Chr02	30364111	AA	GG	GG	DRR	101491505	laccase-4-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10484_A_30364520	NC_021161.1	Ca_Kabuli_Chr02	30364520	TT	CC	CC	DRR	101491505	laccase-4-like
SNP_10485_A_30364636	NC_021161.1	Ca_Kabuli_Chr02	30364636	CC	AA	AA	URR	101491193	uncharacterized LOC101491193
SNP_10486_A_30364809	NC_021161.1	Ca_Kabuli_Chr02	30364809	CC	GG	GG	URR	101491193	uncharacterized LOC101491193
SNP_10487_A_30364810	NC_021161.1	Ca_Kabuli_Chr02	30364810	AA	GG	GG	URR	101491193	uncharacterized LOC101491193
SNP_10488_A_30364838	NC_021161.1	Ca_Kabuli_Chr02	30364838	TT	CC	CC	URR	101491193	uncharacterized LOC101491193
SNP_10489_A_30364839	NC_021161.1	Ca_Kabuli_Chr02	30364839	AA	GG	GG	URR	101491193	uncharacterized LOC101491193
SNP_10490_A_30364850	NC_021161.1	Ca_Kabuli_Chr02	30364850	AA	GG	GG	URR	101491193	uncharacterized LOC101491193
SNP_10491_A_30365431	NC_021161.1	Ca_Kabuli_Chr02	30365431	GG	CC	CC	URR	101497817	Unknown function
SNP_10492_A_30369011	NC_021161.1	Ca_Kabuli_Chr02	30369011	TT	CC	CC	DRR	101491816	rRNA-processing protein fcf2-like
SNP_10494_A_30369519	NC_021161.1	Ca_Kabuli_Chr02	30369519	CC	TT	TT	DRR	101491816	rRNA-processing protein fcf2-like
SNP_10495_A_30370411	NC_021161.1	Ca_Kabuli_Chr02	30370411	CC	TT	TT	INTERGENIC		
SNP_10497_A_30373918	NC_021161.1	Ca_Kabuli_Chr02	30373918	GG	CC	CC	URR	101491816	rRNA-processing protein fcf2-like
SNP_10500_A_30383429	NC_021161.1	Ca_Kabuli_Chr02	30383429	GG	AA	AA	INTERGENIC		
SNP_10501_A_30385849	NC_021161.1	Ca_Kabuli_Chr02	30385849	GG	AA	AA	INTERGENIC		
SNP_10502_A_30385853	NC_021161.1	Ca_Kabuli_Chr02	30385853	GG	AA	AA	INTERGENIC		
SNP_10503_A_30386067	NC_021161.1	Ca_Kabuli_Chr02	30386067	TT	GG	GG	INTERGENIC		
SNP_10504_A_30386140	NC_021161.1	Ca_Kabuli_Chr02	30386140	CC	TT	TT	INTERGENIC		
SNP_10505_A_30386145	NC_021161.1	Ca_Kabuli_Chr02	30386145	AA	GG	GG	INTERGENIC		
SNP_10506_A_30386155	NC_021161.1	Ca_Kabuli_Chr02	30386155	AA	GG	GG	INTERGENIC		
SNP_10507_A_30389433	NC_021161.1	Ca_Kabuli_Chr02	30389433	TT	CC	CC	SYNONYMOUS_CODING	101492486	coronatine-insensitive protein 1-like
SNP_10508_A_30390607	NC_021161.1	Ca_Kabuli_Chr02	30390607	GG	AA	AA	INTRON	101492486	coronatine-insensitive protein 1-like
SNP_10509_A_30390893	NC_021161.1	Ca_Kabuli_Chr02	30390893	TT	AA	AA	INTRON	101492486	coronatine-insensitive protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10511_A_30391318	NC_021161.1	Ca_Kabuli_Chr02	30391318	GG	AA	AA	INTRON	101492486	coronatine-insensitive protein 1-like
SNP_10512_A_30393397	NC_021161.1	Ca_Kabuli_Chr02	30393397	AA	CC	CC	URR	101492486	coronatine-insensitive protein 1-like
SNP_10513_A_30393453	NC_021161.1	Ca_Kabuli_Chr02	30393453	AA	GG	GG	URR	101492486	coronatine-insensitive protein 1-like
SNP_10514_A_30393457	NC_021161.1	Ca_Kabuli_Chr02	30393457	CC	TT	TT	URR	101492486	coronatine-insensitive protein 1-like
SNP_10515_A_30393461	NC_021161.1	Ca_Kabuli_Chr02	30393461	GG	TT	TT	URR	101492486	coronatine-insensitive protein 1-like
SNP_10516_A_30393483	NC_021161.1	Ca_Kabuli_Chr02	30393483	CC	TT	TT	URR	101492486	coronatine-insensitive protein 1-like
SNP_10517_A_30393521	NC_021161.1	Ca_Kabuli_Chr02	30393521	CC	AA	AA	URR	101492486	coronatine-insensitive protein 1-like
SNP_10518_A_30393749	NC_021161.1	Ca_Kabuli_Chr02	30393749	CC	AA	AA	URR	101492486	coronatine-insensitive protein 1-like
SNP_10519_A_30393788	NC_021161.1	Ca_Kabuli_Chr02	30393788	CC	TT	TT	URR	101492486	coronatine-insensitive protein 1-like
SNP_10521_A_30394661	NC_021161.1	Ca_Kabuli_Chr02	30394661	AA	GG	GG	INTERGENIC		
SNP_10522_A_30395048	NC_021161.1	Ca_Kabuli_Chr02	30395048	GG	TT	TT	INTERGENIC		
SNP_10524_A_30396938	NC_021161.1	Ca_Kabuli_Chr02	30396938	TT	CC	CC	INTERGENIC		
SNP_10525_A_30400213	NC_021161.1	Ca_Kabuli_Chr02	30400213	CC	TT	TT	INTERGENIC		
SNP_10526_A_30400702	NC_021161.1	Ca_Kabuli_Chr02	30400702	GG	AA	AA	INTERGENIC		
SNP_10527_A_30400717	NC_021161.1	Ca_Kabuli_Chr02	30400717	TT	CC	CC	INTERGENIC		
SNP_10528_A_30401726	NC_021161.1	Ca_Kabuli_Chr02	30401726	AA	CC	CC	INTERGENIC		
SNP_10529_A_30402632	NC_021161.1	Ca_Kabuli_Chr02	30402632	GG	AA	AA	INTERGENIC		
SNP_10530_A_30402875	NC_021161.1	Ca_Kabuli_Chr02	30402875	CC	TT	TT	DRR	101492819	uncharacterized LOC101492819
SNP_10531_A_30403606	NC_021161.1	Ca_Kabuli_Chr02	30403606	CC	AA	AA	DRR	101492819	uncharacterized LOC101492819
SNP_10532_A_30403620	NC_021161.1	Ca_Kabuli_Chr02	30403620	AA	TT	TT	DRR	101492819	uncharacterized LOC101492819
SNP_10533_A_30403642	NC_021161.1	Ca_Kabuli_Chr02	30403642	AA	TT	TT	DRR	101492819	uncharacterized LOC101492819
SNP_10534_A_30404767	NC_021161.1	Ca_Kabuli_Chr02	30404767	GG	AA	AA	NON_SYNONYMOUS_CODING	101492819	uncharacterized LOC101492819

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10535_A_30404776	NC_021161.1	Ca_Kabuli_Chr02	30404776	GG	AA	AA	NON_SYNONYMOUS_CODING	101492819	uncharacterized LOC101492819
SNP_10536_A_30406098	NC_021161.1	Ca_Kabuli_Chr02	30406098	CC	TT	TT	INTRON	101492819	uncharacterized LOC101492819
SNP_10537_A_30410624	NC_021161.1	Ca_Kabuli_Chr02	30410624	GG	CC	CC	URR	101492819	uncharacterized LOC101492819
SNP_10538_A_30410808	NC_021161.1	Ca_Kabuli_Chr02	30410808	TT	CC	CC	URR	101492819	uncharacterized LOC101492819
SNP_10539_A_30418777	NC_021161.1	Ca_Kabuli_Chr02	30418777	CC	TT	TT	URR	101493148	probable signal peptidase complex subunit 2
SNP_10541_A_30423911	NC_021161.1	Ca_Kabuli_Chr02	30423911	GG	AA	AA	INTRON	101493478	peroxisomal nicotinamide adenine dinucleotide carrier
SNP_10542_A_30426293	NC_021161.1	Ca_Kabuli_Chr02	30426293	AA	CC	CC	URR	101493478	peroxisomal nicotinamide adenine dinucleotide carrier
SNP_10543_A_30432342	NC_021161.1	Ca_Kabuli_Chr02	30432342	AA	GG	GG	INTERGENIC		
SNP_10544_A_30432767	NC_021161.1	Ca_Kabuli_Chr02	30432767	AA	GG	GG	INTERGENIC		
SNP_10546_A_30435214	NC_021161.1	Ca_Kabuli_Chr02	30435214	AA	CC	CC	INTERGENIC		
SNP_10547_A_30435217	NC_021161.1	Ca_Kabuli_Chr02	30435217	CC	TT	TT	INTERGENIC		
SNP_10548_A_30435491	NC_021161.1	Ca_Kabuli_Chr02	30435491	AA	TT	TT	INTERGENIC		
SNP_10549_A_30444945	NC_021161.1	Ca_Kabuli_Chr02	30444945	CC	TT	TT	INTERGENIC		
SNP_10550_A_30444952	NC_021161.1	Ca_Kabuli_Chr02	30444952	CC	TT	TT	INTERGENIC		
SNP_10551_A_30445537	NC_021161.1	Ca_Kabuli_Chr02	30445537	GG	AA	AA	INTERGENIC		
SNP_10552_A_30445774	NC_021161.1	Ca_Kabuli_Chr02	30445774	CC	TT	TT	INTERGENIC		
SNP_10553_A_30445799	NC_021161.1	Ca_Kabuli_Chr02	30445799	CC	TT	TT	INTERGENIC		
SNP_10554_A_30445815	NC_021161.1	Ca_Kabuli_Chr02	30445815	GG	AA	AA	INTERGENIC		
SNP_10555_A_30447560	NC_021161.1	Ca_Kabuli_Chr02	30447560	GG	TT	TT	INTERGENIC		
SNP_10558_A_30447827	NC_021161.1	Ca_Kabuli_Chr02	30447827	TT	GG	GG	INTERGENIC		
SNP_10559_A_30447828	NC_021161.1	Ca_Kabuli_Chr02	30447828	TT	AA	AA	INTERGENIC		
SNP_10560_A_30449144	NC_021161.1	Ca_Kabuli_Chr02	30449144	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10562_A_30449269	NC_021161.1	Ca_Kabuli_Chr02	30449269	GG	AA	AA	INTERGENIC		
SNP_10563_A_30451641	NC_021161.1	Ca_Kabuli_Chr02	30451641	TT	GG	GG	INTERGENIC		
SNP_10564_A_30456697	NC_021161.1	Ca_Kabuli_Chr02	30456697	AA	TT	TT	DRR	101494967	WUSCHEL-related homeobox 5-like
SNP_10566_A_30456740	NC_021161.1	Ca_Kabuli_Chr02	30456740	GG	AA	AA	DRR	101494967	WUSCHEL-related homeobox 5-like
SNP_10567_A_30457263	NC_021161.1	Ca_Kabuli_Chr02	30457263	AA	GG	GG	DRR	101494967	WUSCHEL-related homeobox 5-like
SNP_10569_A_30457999	NC_021161.1	Ca_Kabuli_Chr02	30457999	CC	TT	TT	URR	101494647	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_10570_A_30458063	NC_021161.1	Ca_Kabuli_Chr02	30458063	AA	CC	CC	URR	101494647	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_10571_A_30458064	NC_021161.1	Ca_Kabuli_Chr02	30458064	GG	TT	TT	URR	101494647	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_10572_A_30458234	NC_021161.1	Ca_Kabuli_Chr02	30458234	TT	CC	CC	URR	101494647	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_10573_A_30458241	NC_021161.1	Ca_Kabuli_Chr02	30458241	GG	AA	AA	URR	101494647	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_10574_A_30459113	NC_021161.1	Ca_Kabuli_Chr02	30459113	CC	GG	GG	INTERGENIC		
SNP_10576_A_30461799	NC_021161.1	Ca_Kabuli_Chr02	30461799	CC	TT	TT	INTERGENIC		
SNP_10577_A_30461814	NC_021161.1	Ca_Kabuli_Chr02	30461814	TT	AA	AA	INTERGENIC		
SNP_10578_A_30461976	NC_021161.1	Ca_Kabuli_Chr02	30461976	AA	TT	TT	INTERGENIC		
SNP_10579_A_30461993	NC_021161.1	Ca_Kabuli_Chr02	30461993	AA	CC	CC	INTERGENIC		
SNP_10580_A_30462219	NC_021161.1	Ca_Kabuli_Chr02	30462219	TT	AA	AA	INTERGENIC		
SNP_10581_A_30462233	NC_021161.1	Ca_Kabuli_Chr02	30462233	CC	TT	TT	INTERGENIC		
SNP_10582_A_30462273	NC_021161.1	Ca_Kabuli_Chr02	30462273	TT	CC	CC	INTERGENIC		
SNP_10583_A_30462945	NC_021161.1	Ca_Kabuli_Chr02	30462945	AA	GG	GG	INTERGENIC		
SNP_10584_A_30463494	NC_021161.1	Ca_Kabuli_Chr02	30463494	GG	AA	AA	INTERGENIC		
SNP_10585_A_30463504	NC_021161.1	Ca_Kabuli_Chr02	30463504	CC	GG	GG	INTERGENIC		
SNP_10586_A_30463520	NC_021161.1	Ca_Kabuli_Chr02	30463520	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10587_A_30464384	NC_021161.1	Ca_Kabuli_Chr02	30464384	AA	GG	GG	INTERGENIC		
SNP_10588_A_30464905	NC_021161.1	Ca_Kabuli_Chr02	30464905	CC	TT	TT	INTERGENIC		
SNP_10589_A_30465205	NC_021161.1	Ca_Kabuli_Chr02	30465205	TT	AA	AA	INTERGENIC		
SNP_10590_A_30468316	NC_021161.1	Ca_Kabuli_Chr02	30468316	AA	TT	TT	SYNONYMOUS_CODING	101495293	eukaryotic translation initiation factor 3 subunit F-like
SNP_10591_A_30474405	NC_021161.1	Ca_Kabuli_Chr02	30474405	CC	TT	TT	INTERGENIC		
SNP_10592_A_30474436	NC_021161.1	Ca_Kabuli_Chr02	30474436	GG	TT	TT	INTERGENIC		
SNP_10593_A_30474454	NC_021161.1	Ca_Kabuli_Chr02	30474454	CC	TT	TT	INTERGENIC		
SNP_10594_A_30474459	NC_021161.1	Ca_Kabuli_Chr02	30474459	CC	AA	AA	INTERGENIC		
SNP_10595_A_30476111	NC_021161.1	Ca_Kabuli_Chr02	30476111	TT	CC	CC	INTERGENIC		
SNP_10596_A_30476117	NC_021161.1	Ca_Kabuli_Chr02	30476117	TT	GG	GG	INTERGENIC		
SNP_10597_A_30476324	NC_021161.1	Ca_Kabuli_Chr02	30476324	GG	AA	AA	INTERGENIC		
SNP_10598_A_30476375	NC_021161.1	Ca_Kabuli_Chr02	30476375	CC	AA	AA	INTERGENIC		
SNP_10599_A_30478472	NC_021161.1	Ca_Kabuli_Chr02	30478472	AA	GG	GG	DRR	101495619	probable aquaporin PIP-type 7a
SNP_10600_A_30478610	NC_021161.1	Ca_Kabuli_Chr02	30478610	GG	AA	AA	DRR	101495619	probable aquaporin PIP-type 7a
SNP_10603_A_30484808	NC_021161.1	Ca_Kabuli_Chr02	30484808	AA	CC	CC	INTERGENIC		
SNP_10605_A_30489863	NC_021161.1	Ca_Kabuli_Chr02	30489863	AA	GG	GG	INTERGENIC		
SNP_10606_A_30489869	NC_021161.1	Ca_Kabuli_Chr02	30489869	CC	TT	TT	INTERGENIC		
SNP_10607_A_30490049	NC_021161.1	Ca_Kabuli_Chr02	30490049	AA	GG	GG	INTERGENIC		
SNP_10608_A_30490297	NC_021161.1	Ca_Kabuli_Chr02	30490297	TT	AA	AA	INTERGENIC		
SNP_10610_A_30494139	NC_021161.1	Ca_Kabuli_Chr02	30494139	CC	TT	TT	INTERGENIC		
SNP_10611_A_30500037	NC_021161.1	Ca_Kabuli_Chr02	30500037	TT	CC	CC	INTERGENIC		
SNP_10612_A_30500318	NC_021161.1	Ca_Kabuli_Chr02	30500318	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10613_A_30500387	NC_021161.1	Ca_Kabuli_Chr02	30500387	GG	AA	AA	INTERGENIC		
SNP_10614_A_30500423	NC_021161.1	Ca_Kabuli_Chr02	30500423	TT	CC	CC	INTERGENIC		
SNP_10615_A_30500540	NC_021161.1	Ca_Kabuli_Chr02	30500540	TT	CC	CC	INTERGENIC		
SNP_10616_A_30504126	NC_021161.1	Ca_Kabuli_Chr02	30504126	AA	GG	GG	DRR	101496162	glycosyltransferase family 64 protein C4
SNP_10617_A_30504142	NC_021161.1	Ca_Kabuli_Chr02	30504142	AA	TT	TT	DRR	101496162	glycosyltransferase family 64 protein C4
SNP_10618_A_30504364	NC_021161.1	Ca_Kabuli_Chr02	30504364	TT	CC	CC	DRR	101496162	glycosyltransferase family 64 protein C4
SNP_10619_A_30505703	NC_021161.1	Ca_Kabuli_Chr02	30505703	AA	TT	TT	INTERGENIC		
SNP_10620_A_30505708	NC_021161.1	Ca_Kabuli_Chr02	30505708	AA	GG	GG	INTERGENIC		
SNP_10621_A_30506532	NC_021161.1	Ca_Kabuli_Chr02	30506532	TT	CC	CC	INTERGENIC		
SNP_10622_A_30510916	NC_021161.1	Ca_Kabuli_Chr02	30510916	AA	GG	GG	DRR	101496492	uncharacterized LOC101496492
SNP_10623_A_30510948	NC_021161.1	Ca_Kabuli_Chr02	30510948	CC	TT	TT	URR	101496162	glycosyltransferase family 64 protein C4
SNP_10624_A_30510985	NC_021161.1	Ca_Kabuli_Chr02	30510985	AA	GG	GG	URR	101496162	glycosyltransferase family 64 protein C4
SNP_10625_A_30511036	NC_021161.1	Ca_Kabuli_Chr02	30511036	GG	AA	AA	URR	101496162	glycosyltransferase family 64 protein C4
SNP_10626_A_30514256	NC_021161.1	Ca_Kabuli_Chr02	30514256	TT	GG	GG	URR	101496492	uncharacterized LOC101496492
SNP_10628_A_30517281	NC_021161.1	Ca_Kabuli_Chr02	30517281	AA	GG	GG	INTERGENIC		
SNP_10629_A_30517317	NC_021161.1	Ca_Kabuli_Chr02	30517317	GG	AA	AA	INTERGENIC		
SNP_10630_A_30517863	NC_021161.1	Ca_Kabuli_Chr02	30517863	TT	CC	CC	DRR	101496827	nematode resistance protein-like HSPRO2
SNP_10631_A_30526059	NC_021161.1	Ca_Kabuli_Chr02	30526059	AA	GG	GG	INTERGENIC		
SNP_10632_A_30526273	NC_021161.1	Ca_Kabuli_Chr02	30526273	GG	TT	TT	INTERGENIC		
SNP_10633_A_30526325	NC_021161.1	Ca_Kabuli_Chr02	30526325	AA	CC	CC	INTERGENIC		
SNP_10634_A_30526578	NC_021161.1	Ca_Kabuli_Chr02	30526578	TT	GG	GG	INTERGENIC		
SNP_10636_A_30538869	NC_021161.1	Ca_Kabuli_Chr02	30538869	AA	TT	TT	INTRON	101497480	60S acidic ribosomal protein P0-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10637_A_30539227	NC_021161.1	Ca_Kabuli_Chr02	30539227	AA	CC	CC	INTRON	101497480	60S acidic ribosomal protein P0-like
SNP_10638_A_30549477	NC_021161.1	Ca_Kabuli_Chr02	30549477	AA	CC	CC	INTERGENIC		
SNP_10640_A_30553736	NC_021161.1	Ca_Kabuli_Chr02	30553736	GG	AA	AA	INTERGENIC		
SNP_10642_A_30556045	NC_021161.1	Ca_Kabuli_Chr02	30556045	AA	CC	CC	INTERGENIC		
SNP_10643_A_30556355	NC_021161.1	Ca_Kabuli_Chr02	30556355	AA	GG	GG	INTERGENIC		
SNP_10645_A_30560068	NC_021161.1	Ca_Kabuli_Chr02	30560068	AA	GG	GG	INTERGENIC		
SNP_10646_A_30560083	NC_021161.1	Ca_Kabuli_Chr02	30560083	AA	GG	GG	INTERGENIC		
SNP_10647_A_30566013	NC_021161.1	Ca_Kabuli_Chr02	30566013	TT	GG	GG	DRR	101497816	auxin transporter-like protein 1
SNP_10648_A_30566742	NC_021161.1	Ca_Kabuli_Chr02	30566742	CC	TT	TT	URR	101497816	auxin transporter-like protein 1
SNP_10649_A_30566753	NC_021161.1	Ca_Kabuli_Chr02	30566753	CC	AA	AA	URR	101497816	auxin transporter-like protein 1
SNP_10650_A_30566988	NC_021161.1	Ca_Kabuli_Chr02	30566988	TT	GG	GG	START_GAINED	101497816	auxin transporter-like protein 1
SNP_10652_A_30571883	NC_021161.1	Ca_Kabuli_Chr02	30571883	GG	AA	AA	INTRON	101497816	auxin transporter-like protein 1
SNP_10653_A_30572292	NC_021161.1	Ca_Kabuli_Chr02	30572292	CC	TT	TT	INTERGENIC		
SNP_10655_A_30574277	NC_021161.1	Ca_Kabuli_Chr02	30574277	AA	CC	CC	URR	101497816	auxin transporter-like protein 1
SNP_10657_A_30574820	NC_021161.1	Ca_Kabuli_Chr02	30574820	CC	TT	TT	DRR	101498341	uncharacterized LOC101498341
SNP_10658_A_30574844	NC_021161.1	Ca_Kabuli_Chr02	30574844	TT	AA	AA	DRR	101498341	uncharacterized LOC101498341
SNP_10659_A_30574991	NC_021161.1	Ca_Kabuli_Chr02	30574991	AA	GG	GG	DRR	101498341	uncharacterized LOC101498341
SNP_10661_A_30579172	NC_021161.1	Ca_Kabuli_Chr02	30579172	GG	AA	AA	URR	101498341	uncharacterized LOC101498341
SNP_10662_A_30579222	NC_021161.1	Ca_Kabuli_Chr02	30579222	AA	GG	GG	URR	101498341	uncharacterized LOC101498341
SNP_10663_A_30582181	NC_021161.1	Ca_Kabuli_Chr02	30582181	CC	AA	AA	INTERGENIC		
SNP_10664_A_30582183	NC_021161.1	Ca_Kabuli_Chr02	30582183	TT	CC	CC	INTERGENIC		
SNP_10665_A_30584070	NC_021161.1	Ca_Kabuli_Chr02	30584070	CC	TT	TT	INTRON	101500172	probable zinc metalloprotease EGY2, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10666_A_30584108	NC_021161.1	Ca_Kabuli_Chr02	30584108	CC	TT	TT	INTRON	101500172	probable zinc metalloprotease EGY2, chloroplastic
SNP_10667_A_30584109	NC_021161.1	Ca_Kabuli_Chr02	30584109	GG	AA	AA	INTRON	101500172	probable zinc metalloprotease EGY2, chloroplastic
SNP_10668_A_30584126	NC_021161.1	Ca_Kabuli_Chr02	30584126	TT	CC	CC	INTRON	101500172	probable zinc metalloprotease EGY2, chloroplastic
SNP_10669_A_30584164	NC_021161.1	Ca_Kabuli_Chr02	30584164	TT	AA	AA	INTRON	101500172	probable zinc metalloprotease EGY2, chloroplastic
SNP_10670_A_30587647	NC_021161.1	Ca_Kabuli_Chr02	30587647	GG	AA	AA	INTERGENIC		
SNP_10671_A_30592864	NC_021161.1	Ca_Kabuli_Chr02	30592864	CC	TT	TT	INTERGENIC		
SNP_10672_A_30616820	NC_021161.1	Ca_Kabuli_Chr02	30616820	GG	AA	AA	INTERGENIC		
SNP_10673_A_30618625	NC_021161.1	Ca_Kabuli_Chr02	30618625	AA	TT	TT	URR	101500812	mucin-17-like
SNP_10674_A_30621306	NC_021161.1	Ca_Kabuli_Chr02	30621306	AA	GG	GG	INTRON	101501133	protein yippee-like
SNP_10675_A_30621313	NC_021161.1	Ca_Kabuli_Chr02	30621313	TT	AA	AA	INTRON	101501133	protein yippee-like
SNP_10676_A_30621315	NC_021161.1	Ca_Kabuli_Chr02	30621315	GG	TT	TT	INTRON	101501133	protein yippee-like
SNP_10677_A_30621663	NC_021161.1	Ca_Kabuli_Chr02	30621663	GG	AA	AA	INTRON	101501133	protein yippee-like
SNP_10679_A_30622774	NC_021161.1	Ca_Kabuli_Chr02	30622774	GG	CC	CC	INTRON	101501133	protein yippee-like
SNP_10680_A_30623390	NC_021161.1	Ca_Kabuli_Chr02	30623390	AA	TT	TT	URR	101501133	protein yippee-like
SNP_10683_A_30624421	NC_021161.1	Ca_Kabuli_Chr02	30624421	TT	GG	GG	URR	101501133	protein yippee-like
SNP_10685_A_30630120	NC_021161.1	Ca_Kabuli_Chr02	30630120	CC	TT	TT	INTERGENIC		
SNP_10686_A_30630121	NC_021161.1	Ca_Kabuli_Chr02	30630121	TT	CC	CC	INTERGENIC		
SNP_10687_A_30630358	NC_021161.1	Ca_Kabuli_Chr02	30630358	AA	GG	GG	INTERGENIC		
SNP_10688_A_30631239	NC_021161.1	Ca_Kabuli_Chr02	30631239	TT	CC	CC	INTERGENIC		
SNP_10689_A_30633181	NC_021161.1	Ca_Kabuli_Chr02	30633181	GG	AA	AA	INTERGENIC		
SNP_10690_A_30637970	NC_021161.1	Ca_Kabuli_Chr02	30637970	AA	TT	TT	INTERGENIC		
SNP_10691_A_30639917	NC_021161.1	Ca_Kabuli_Chr02	30639917	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10692_A_30639918	NC_021161.1	Ca_Kabuli_Chr02	30639918	TT	CC	CC	INTERGENIC			
SNP_10693_A_30641506	NC_021161.1	Ca_Kabuli_Chr02	30641506	TT	CC	CC	INTERGENIC			
SNP_10694_A_30641510	NC_021161.1	Ca_Kabuli_Chr02	30641510	CC	TT	TT	INTERGENIC			
SNP_10695_A_30642469	NC_021161.1	Ca_Kabuli_Chr02	30642469	GG	CC	CC	INTERGENIC			
SNP_10697_A_30643029	NC_021161.1	Ca_Kabuli_Chr02	30643029	TT	GG	GG	INTERGENIC			
SNP_10698_A_30645577	NC_021161.1	Ca_Kabuli_Chr02	30645577	CC	AA	AA	INTERGENIC			
SNP_10701_A_30648566	NC_021161.1	Ca_Kabuli_Chr02	30648566	AA	CC	CC	INTERGENIC			
SNP_10702_A_30649226	NC_021161.1	Ca_Kabuli_Chr02	30649226	CC	TT	TT	INTERGENIC			
SNP_10703_A_30649297	NC_021161.1	Ca_Kabuli_Chr02	30649297	AA	GG	GG	INTERGENIC			
SNP_10704_A_30649304	NC_021161.1	Ca_Kabuli_Chr02	30649304	CC	TT	TT	INTERGENIC			
SNP_10705_A_30649305	NC_021161.1	Ca_Kabuli_Chr02	30649305	AA	CC	CC	INTERGENIC			
SNP_10706_A_30649361	NC_021161.1	Ca_Kabuli_Chr02	30649361	AA	GG	GG	INTERGENIC			
SNP_10707_A_30663525	NC_021161.1	Ca_Kabuli_Chr02	30663525	TT	CC	CC	DRR	101502086	cytochrome P450 90A1	
SNP_10708_A_30663527	NC_021161.1	Ca_Kabuli_Chr02	30663527	GG	AA	AA	DRR	101502086	cytochrome P450 90A1	
SNP_10709_A_30664977	NC_021161.1	Ca_Kabuli_Chr02	30664977	CC	TT	TT	INTRON	101502086	cytochrome P450 90A1	
SNP_10710_A_30665436	NC_021161.1	Ca_Kabuli_Chr02	30665436	CC	GG	GG	INTRON	101502086	cytochrome P450 90A1	
SNP_10713_A_30666811	NC_021161.1	Ca_Kabuli_Chr02	30666811	CC	GG	GG	INTRON	101502086	cytochrome P450 90A1	
SNP_10714_A_30670035	NC_021161.1	Ca_Kabuli_Chr02	30670035	AA	TT	TT	SYNONYMOUS_CODING	101502086	cytochrome P450 90A1	
SNP_10715_A_30671930	NC_021161.1	Ca_Kabuli_Chr02	30671930	AA	GG	GG	URR	101502086	cytochrome P450 90A1	
SNP_10716_A_30671931	NC_021161.1	Ca_Kabuli_Chr02	30671931	AA	CC	CC	URR	101502086	cytochrome P450 90A1	
SNP_10717_A_30671956	NC_021161.1	Ca_Kabuli_Chr02	30671956	CC	TT	TT	URR	101502086	cytochrome P450 90A1	
SNP_10718_A_30671976	NC_021161.1	Ca_Kabuli_Chr02	30671976	GG	AA	AA	URR	101502086	cytochrome P450 90A1	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10719_A_30671988	NC_021161.1	Ca_Kabuli_Chr02	30671988	CC	TT	TT	URR	101502086	cytochrome P450 90A1
SNP_10721_A_30672070	NC_021161.1	Ca_Kabuli_Chr02	30672070	CC	TT	TT	URR	101502086	cytochrome P450 90A1
SNP_10722_A_30672082	NC_021161.1	Ca_Kabuli_Chr02	30672082	AA	GG	GG	URR	101502086	cytochrome P450 90A1
SNP_10723_A_30672123	NC_021161.1	Ca_Kabuli_Chr02	30672123	GG	AA	AA	URR	101502086	cytochrome P450 90A1
SNP_10727_A_30676488	NC_021161.1	Ca_Kabuli_Chr02	30676488	CC	TT	TT	INTERGENIC		
SNP_10728_A_30676511	NC_021161.1	Ca_Kabuli_Chr02	30676511	CC	TT	TT	INTERGENIC		
SNP_10729_A_30676520	NC_021161.1	Ca_Kabuli_Chr02	30676520	TT	CC	CC	INTERGENIC		
SNP_10731_A_30676791	NC_021161.1	Ca_Kabuli_Chr02	30676791	GG	AA	AA	INTERGENIC		
SNP_10732_A_30676793	NC_021161.1	Ca_Kabuli_Chr02	30676793	TT	GG	GG	INTERGENIC		
SNP_10733_A_30676796	NC_021161.1	Ca_Kabuli_Chr02	30676796	CC	TT	TT	INTERGENIC		
SNP_10734_A_30676841	NC_021161.1	Ca_Kabuli_Chr02	30676841	TT	CC	CC	INTERGENIC		
SNP_10735_A_30678015	NC_021161.1	Ca_Kabuli_Chr02	30678015	CC	TT	TT	INTERGENIC		
SNP_10736_A_30678035	NC_021161.1	Ca_Kabuli_Chr02	30678035	AA	GG	GG	INTERGENIC		
SNP_10737_A_30678328	NC_021161.1	Ca_Kabuli_Chr02	30678328	TT	CC	CC	INTERGENIC		
SNP_10738_A_30678329	NC_021161.1	Ca_Kabuli_Chr02	30678329	AA	GG	GG	INTERGENIC		
SNP_10739_A_30679151	NC_021161.1	Ca_Kabuli_Chr02	30679151	TT	AA	AA	INTERGENIC		
SNP_10740_A_30679654	NC_021161.1	Ca_Kabuli_Chr02	30679654	AA	CC	CC	INTERGENIC		
SNP_10741_A_30679689	NC_021161.1	Ca_Kabuli_Chr02	30679689	TT	CC	CC	INTERGENIC		
SNP_10742_A_30685427	NC_021161.1	Ca_Kabuli_Chr02	30685427	AA	GG	GG	INTRON	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10743_A_30689564	NC_021161.1	Ca_Kabuli_Chr02	30689564	CC	TT	TT	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10744_A_30690067	NC_021161.1	Ca_Kabuli_Chr02	30690067	CC	TT	TT	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10746_A_30690207	NC_021161.1	Ca_Kabuli_Chr02	30690207	TT	AA	AA	URR	101502615	cytosolic purine 5'-nucleotidase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10749_A_30690609	NC_021161.1	Ca_Kabuli_Chr02	30690609	CC	AA	AA	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10750_A_30690684	NC_021161.1	Ca_Kabuli_Chr02	30690684	GG	AA	AA	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10751_A_30690826	NC_021161.1	Ca_Kabuli_Chr02	30690826	AA	TT	TT	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10752_A_30690852	NC_021161.1	Ca_Kabuli_Chr02	30690852	GG	TT	TT	URR	101502615	cytosolic purine 5'-nucleotidase-like
SNP_10753_A_30692076	NC_021161.1	Ca_Kabuli_Chr02	30692076	AA	CC	CC	INTERGENIC		
SNP_10754_A_30695598	NC_021161.1	Ca_Kabuli_Chr02	30695598	TT	GG	GG	DRR	101503142	FACT complex subunit SSRP1-like
SNP_10756_A_30695656	NC_021161.1	Ca_Kabuli_Chr02	30695656	GG	AA	AA	DRR	101503142	FACT complex subunit SSRP1-like
SNP_10758_A_30701514	NC_021161.1	Ca_Kabuli_Chr02	30701514	AA	GG	GG	INTRON	101503142	FACT complex subunit SSRP1-like
SNP_10762_A_30703675	NC_021161.1	Ca_Kabuli_Chr02	30703675	CC	GG	GG	URR	101503142	FACT complex subunit SSRP1-like
SNP_10763_A_30703705	NC_021161.1	Ca_Kabuli_Chr02	30703705	GG	TT	TT	URR	101503142	FACT complex subunit SSRP1-like
SNP_10764_A_30703873	NC_021161.1	Ca_Kabuli_Chr02	30703873	GG	TT	TT	URR	101503142	FACT complex subunit SSRP1-like
SNP_10765_A_30704086	NC_021161.1	Ca_Kabuli_Chr02	30704086	CC	AA	AA	URR	101503142	FACT complex subunit SSRP1-like
SNP_10767_A_30709329	NC_021161.1	Ca_Kabuli_Chr02	30709329	GG	AA	AA	INTERGENIC		
SNP_10768_A_30710588	NC_021161.1	Ca_Kabuli_Chr02	30710588	TT	CC	CC	DRR	101504327	phosphoinositide phospholipase C 6-like
SNP_10769_A_30711821	NC_021161.1	Ca_Kabuli_Chr02	30711821	AA	GG	GG	URR	101503581	phosphoinositide phospholipase C 6-like
SNP_10770_A_30711863	NC_021161.1	Ca_Kabuli_Chr02	30711863	AA	TT	TT	URR	101503581	phosphoinositide phospholipase C 6-like
SNP_10771_A_30715994	NC_021161.1	Ca_Kabuli_Chr02	30715994	GG	AA	AA	INTRON	101504327	phosphoinositide phospholipase C 6-like
SNP_10772_A_30716237	NC_021161.1	Ca_Kabuli_Chr02	30716237	TT	CC	CC	SYNONYMOUS_CODING	101504327	phosphoinositide phospholipase C 6-like
SNP_10773_A_30716266	NC_021161.1	Ca_Kabuli_Chr02	30716266	TT	CC	CC	NON_SYNONYMOUS_CODING	101504327	phosphoinositide phospholipase C 6-like
SNP_10774_A_30718248	NC_021161.1	Ca_Kabuli_Chr02	30718248	AA	GG	GG	URR	101504327	phosphoinositide phospholipase C 6-like
SNP_10775_A_30718389	NC_021161.1	Ca_Kabuli_Chr02	30718389	TT	CC	CC	URR	101504327	phosphoinositide phospholipase C 6-like
SNP_10776_A_30718547	NC_021161.1	Ca_Kabuli_Chr02	30718547	GG	AA	AA	URR	101504327	phosphoinositide phospholipase C 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10777_A_30718800	NC_021161.1	Ca_Kabuli_Chr02	30718800	GG	AA	AA	INTERGENIC		
SNP_10778_A_30718806	NC_021161.1	Ca_Kabuli_Chr02	30718806	AA	GG	GG	INTERGENIC		
SNP_10779_A_30718812	NC_021161.1	Ca_Kabuli_Chr02	30718812	CC	TT	TT	INTERGENIC		
SNP_10780_A_30719898	NC_021161.1	Ca_Kabuli_Chr02	30719898	TT	AA	AA	INTERGENIC		
SNP_10782_A_30720337	NC_021161.1	Ca_Kabuli_Chr02	30720337	TT	AA	AA	INTERGENIC		
SNP_10786_A_30734898	NC_021161.1	Ca_Kabuli_Chr02	30734898	AA	CC	CC	INTERGENIC		
SNP_10788_A_30737344	NC_021161.1	Ca_Kabuli_Chr02	30737344	GG	AA	AA	URR	101504660	phosphoinositide phospholipase C 2-like
SNP_10789_A_30737390	NC_021161.1	Ca_Kabuli_Chr02	30737390	GG	AA	AA	URR	101504660	phosphoinositide phospholipase C 2-like
SNP_10790_A_30737392	NC_021161.1	Ca_Kabuli_Chr02	30737392	CC	TT	TT	URR	101504660	phosphoinositide phospholipase C 2-like
SNP_10792_A_30738247	NC_021161.1	Ca_Kabuli_Chr02	30738247	AA	GG	GG	URR	101504660	phosphoinositide phospholipase C 2-like
SNP_10793_A_30756245	NC_021161.1	Ca_Kabuli_Chr02	30756245	CC	TT	TT	URR	101490767	zinc finger protein 830-like
SNP_10794_A_30768592	NC_021161.1	Ca_Kabuli_Chr02	30768592	CC	GG	GG	URR	101490228	tRNA threonylcarbamoyladenosine dehydratase 2-like
SNP_10795_A_30772504	NC_021161.1	Ca_Kabuli_Chr02	30772504	CC	TT	TT	URR	101489891	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1-like
SNP_10797_A_30774157	NC_021161.1	Ca_Kabuli_Chr02	30774157	TT	CC	CC	URR	101489891	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1-like
SNP_10798_A_30774159	NC_021161.1	Ca_Kabuli_Chr02	30774159	GG	AA	AA	URR	101489891	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1-like
SNP_10799_A_30774167	NC_021161.1	Ca_Kabuli_Chr02	30774167	AA	GG	GG	INTERGENIC		
SNP_10800_A_30783867	NC_021161.1	Ca_Kabuli_Chr02	30783867	GG	AA	AA	INTERGENIC		
SNP_10801_A_30785547	NC_021161.1	Ca_Kabuli_Chr02	30785547	TT	CC	CC	INTERGENIC		
SNP_10802_A_30785569	NC_021161.1	Ca_Kabuli_Chr02	30785569	GG	AA	AA	INTERGENIC		
SNP_10803_A_30785598	NC_021161.1	Ca_Kabuli_Chr02	30785598	TT	AA	AA	INTERGENIC		
SNP_10804_A_30785615	NC_021161.1	Ca_Kabuli_Chr02	30785615	AA	GG	GG	INTERGENIC		
SNP_10805_A_30785616	NC_021161.1	Ca_Kabuli_Chr02	30785616	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10806_A_30785622	NC_021161.1	Ca_Kabuli_Chr02	30785622	GG	CC	CC	INTERGENIC			
SNP_10807_A_30785631	NC_021161.1	Ca_Kabuli_Chr02	30785631	AA	GG	GG	INTERGENIC			
SNP_10808_A_30785670	NC_021161.1	Ca_Kabuli_Chr02	30785670	AA	GG	GG	INTERGENIC			
SNP_10809_A_30785811	NC_021161.1	Ca_Kabuli_Chr02	30785811	CC	TT	TT	INTERGENIC			
SNP_10812_A_30793781	NC_021161.1	Ca_Kabuli_Chr02	30793781	GG	TT	TT	INTERGENIC			
SNP_10813_A_30794442	NC_021161.1	Ca_Kabuli_Chr02	30794442	AA	GG	GG	INTERGENIC			
SNP_10815_A_30794677	NC_021161.1	Ca_Kabuli_Chr02	30794677	AA	GG	GG	INTERGENIC			
SNP_10816_A_30794926	NC_021161.1	Ca_Kabuli_Chr02	30794926	CC	TT	TT	INTERGENIC			
SNP_10817_A_30795247	NC_021161.1	Ca_Kabuli_Chr02	30795247	TT	CC	CC	INTERGENIC			
SNP_10818_A_30795430	NC_021161.1	Ca_Kabuli_Chr02	30795430	GG	CC	CC	INTERGENIC			
SNP_10820_A_30798637	NC_021161.1	Ca_Kabuli_Chr02	30798637	AA	TT	TT	INTERGENIC			
SNP_10822_A_30807204	NC_021161.1	Ca_Kabuli_Chr02	30807204	AA	TT	TT	INTERGENIC			
SNP_10823_A_30809153	NC_021161.1	Ca_Kabuli_Chr02	30809153	AA	TT	TT	INTERGENIC			
SNP_10824_A_30810396	NC_021161.1	Ca_Kabuli_Chr02	30810396	AA	CC	CC	INTERGENIC			
SNP_10825_A_30810402	NC_021161.1	Ca_Kabuli_Chr02	30810402	CC	TT	TT	INTERGENIC			
SNP_10826_A_30810411	NC_021161.1	Ca_Kabuli_Chr02	30810411	GG	AA	AA	INTERGENIC			
SNP_10827_A_30810416	NC_021161.1	Ca_Kabuli_Chr02	30810416	CC	TT	TT	INTERGENIC			
SNP_10828_A_30810435	NC_021161.1	Ca_Kabuli_Chr02	30810435	GG	TT	TT	INTERGENIC			
SNP_10829_A_30819944	NC_021161.1	Ca_Kabuli_Chr02	30819944	TT	CC	CC	INTERGENIC			
SNP_10830_A_30819981	NC_021161.1	Ca_Kabuli_Chr02	30819981	AA	GG	GG	INTERGENIC			
SNP_10831_A_30820057	NC_021161.1	Ca_Kabuli_Chr02	30820057	TT	GG	GG	INTERGENIC			
SNP_10832_A_30820072	NC_021161.1	Ca_Kabuli_Chr02	30820072	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10833_A_30820101	NC_021161.1	Ca_Kabuli_Chr02	30820101	GG	AA	AA	INTERGENIC			
SNP_10834_A_30820237	NC_021161.1	Ca_Kabuli_Chr02	30820237	GG	TT	TT	INTERGENIC			
SNP_10835_A_30820324	NC_021161.1	Ca_Kabuli_Chr02	30820324	AA	GG	GG	INTERGENIC			
SNP_10836_A_30820891	NC_021161.1	Ca_Kabuli_Chr02	30820891	TT	CC	CC	INTERGENIC			
SNP_10837_A_30820898	NC_021161.1	Ca_Kabuli_Chr02	30820898	CC	TT	TT	INTERGENIC			
SNP_10838_A_30822415	NC_021161.1	Ca_Kabuli_Chr02	30822415	GG	AA	AA	INTERGENIC			
SNP_10839_A_30822448	NC_021161.1	Ca_Kabuli_Chr02	30822448	AA	GG	GG	INTERGENIC			
SNP_10840_A_30822456	NC_021161.1	Ca_Kabuli_Chr02	30822456	GG	AA	AA	INTERGENIC			
SNP_10841_A_30822774	NC_021161.1	Ca_Kabuli_Chr02	30822774	CC	AA	AA	INTERGENIC			
SNP_10842_A_30823814	NC_021161.1	Ca_Kabuli_Chr02	30823814	AA	GG	GG	INTERGENIC			
SNP_10843_A_30829676	NC_021161.1	Ca_Kabuli_Chr02	30829676	GG	AA	AA	INTERGENIC			
SNP_10844_A_30831569	NC_021161.1	Ca_Kabuli_Chr02	30831569	GG	AA	AA	INTERGENIC			
SNP_10845_A_30831594	NC_021161.1	Ca_Kabuli_Chr02	30831594	AA	CC	CC	INTERGENIC			
SNP_10846_A_30831625	NC_021161.1	Ca_Kabuli_Chr02	30831625	CC	AA	AA	INTERGENIC			
SNP_10847_A_30831628	NC_021161.1	Ca_Kabuli_Chr02	30831628	GG	AA	AA	INTERGENIC			
SNP_10848_A_30831663	NC_021161.1	Ca_Kabuli_Chr02	30831663	TT	CC	CC	INTERGENIC			
SNP_10849_A_30831665	NC_021161.1	Ca_Kabuli_Chr02	30831665	TT	GG	GG	INTERGENIC			
SNP_10850_A_30831674	NC_021161.1	Ca_Kabuli_Chr02	30831674	CC	TT	TT	INTERGENIC			
SNP_10851_A_30831843	NC_021161.1	Ca_Kabuli_Chr02	30831843	CC	TT	TT	INTERGENIC			
SNP_10852_A_30834880	NC_021161.1	Ca_Kabuli_Chr02	30834880	TT	CC	CC	INTERGENIC			
SNP_10853_A_30834945	NC_021161.1	Ca_Kabuli_Chr02	30834945	CC	TT	TT	INTERGENIC			
SNP_10854_A_30834997	NC_021161.1	Ca_Kabuli_Chr02	30834997	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10855_A_30836851	NC_021161.1	Ca_Kabuli_Chr02	30836851	AA	GG	GG	INTERGENIC		
SNP_10856_A_30836912	NC_021161.1	Ca_Kabuli_Chr02	30836912	AA	GG	GG	INTERGENIC		
SNP_10857_A_30837040	NC_021161.1	Ca_Kabuli_Chr02	30837040	AA	GG	GG	INTERGENIC		
SNP_10858_A_30837083	NC_021161.1	Ca_Kabuli_Chr02	30837083	TT	AA	AA	INTERGENIC		
SNP_10859_A_30839798	NC_021161.1	Ca_Kabuli_Chr02	30839798	TT	CC	CC	INTERGENIC		
SNP_10860_A_30844398	NC_021161.1	Ca_Kabuli_Chr02	30844398	TT	AA	AA	INTRON	101489251	protein SRG1-like
SNP_10861_A_30846073	NC_021161.1	Ca_Kabuli_Chr02	30846073	AA	GG	GG	INTRON	101489251	protein SRG1-like
SNP_10863_A_30846393	NC_021161.1	Ca_Kabuli_Chr02	30846393	AA	GG	GG	INTRON	101489251	protein SRG1-like
SNP_10864_A_30846412	NC_021161.1	Ca_Kabuli_Chr02	30846412	AA	GG	GG	INTRON	101489251	protein SRG1-like
SNP_10866_A_30848630	NC_021161.1	Ca_Kabuli_Chr02	30848630	GG	AA	AA	URR	101489251	protein SRG1-like
SNP_10869_A_30860657	NC_021161.1	Ca_Kabuli_Chr02	30860657	TT	CC	CC	INTERGENIC		
SNP_10870_A_30860930	NC_021161.1	Ca_Kabuli_Chr02	30860930	GG	CC	CC	INTERGENIC		
SNP_10871_A_30864892	NC_021161.1	Ca_Kabuli_Chr02	30864892	AA	CC	CC	DRR	101488929	zinc finger CCH domain-containing protein 29
SNP_10872_A_30870068	NC_021161.1	Ca_Kabuli_Chr02	30870068	AA	CC	CC	DRR	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10873_A_30870069	NC_021161.1	Ca_Kabuli_Chr02	30870069	TT	CC	CC	DRR	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10875_A_30873891	NC_021161.1	Ca_Kabuli_Chr02	30873891	TT	CC	CC	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10876_A_30876517	NC_021161.1	Ca_Kabuli_Chr02	30876517	TT	GG	GG	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10877_A_30876552	NC_021161.1	Ca_Kabuli_Chr02	30876552	AA	TT	TT	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10878_A_30876608	NC_021161.1	Ca_Kabuli_Chr02	30876608	AA	GG	GG	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10879_A_30882151	NC_021161.1	Ca_Kabuli_Chr02	30882151	GG	AA	AA	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10880_A_30883017	NC_021161.1	Ca_Kabuli_Chr02	30883017	AA	GG	GG	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10881_A_30883023	NC_021161.1	Ca_Kabuli_Chr02	30883023	TT	GG	GG	INTRON	101488378	lethal(2) giant larvae protein homolog SRO77

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10883_A_30886122	NC_021161.1	Ca_Kabuli_Chr02	30886122	AA	GG	GG	URR	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10884_A_30887172	NC_021161.1	Ca_Kabuli_Chr02	30887172	TT	CC	CC	URR	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10885_A_30887207	NC_021161.1	Ca_Kabuli_Chr02	30887207	CC	AA	AA	URR	101488378	lethal(2) giant larvae protein homolog SRO77
SNP_10886_A_30887575	NC_021161.1	Ca_Kabuli_Chr02	30887575	CC	TT	TT	INTERGENIC		
SNP_10888_A_30887898	NC_021161.1	Ca_Kabuli_Chr02	30887898	CC	TT	TT	INTERGENIC		
SNP_10889_A_30887911	NC_021161.1	Ca_Kabuli_Chr02	30887911	CC	TT	TT	INTERGENIC		
SNP_10890_A_30887917	NC_021161.1	Ca_Kabuli_Chr02	30887917	AA	TT	TT	INTERGENIC		
SNP_10891_A_30887938	NC_021161.1	Ca_Kabuli_Chr02	30887938	AA	TT	TT	INTERGENIC		
SNP_10892_A_30889812	NC_021161.1	Ca_Kabuli_Chr02	30889812	CC	TT	TT	INTERGENIC		
SNP_10893_A_30890035	NC_021161.1	Ca_Kabuli_Chr02	30890035	TT	CC	CC	INTERGENIC		
SNP_10894_A_30890061	NC_021161.1	Ca_Kabuli_Chr02	30890061	AA	CC	CC	INTERGENIC		
SNP_10895_A_30890096	NC_021161.1	Ca_Kabuli_Chr02	30890096	CC	GG	GG	INTERGENIC		
SNP_10896_A_30890113	NC_021161.1	Ca_Kabuli_Chr02	30890113	AA	TT	TT	INTERGENIC		
SNP_10898_A_30890587	NC_021161.1	Ca_Kabuli_Chr02	30890587	GG	AA	AA	DRR	101515623	gibberellin 2-beta-dioxygenase 1
SNP_10900_A_30890913	NC_021161.1	Ca_Kabuli_Chr02	30890913	AA	GG	GG	DRR	101515623	gibberellin 2-beta-dioxygenase 1
SNP_10902_A_30892201	NC_021161.1	Ca_Kabuli_Chr02	30892201	TT	AA	AA	INTRON	101515623	gibberellin 2-beta-dioxygenase 1
SNP_10903_A_30894575	NC_021161.1	Ca_Kabuli_Chr02	30894575	TT	CC	CC	URR	101515623	gibberellin 2-beta-dioxygenase 1
SNP_10904_A_30898026	NC_021161.1	Ca_Kabuli_Chr02	30898026	TT	AA	AA	DRR	101515072	protein ESKIMO 1-like
SNP_10905_A_30898158	NC_021161.1	Ca_Kabuli_Chr02	30898158	TT	AA	AA	DRR	101515072	protein ESKIMO 1-like
SNP_10907_A_30905750	NC_021161.1	Ca_Kabuli_Chr02	30905750	TT	CC	CC	INTERGENIC		
SNP_10908_A_30906209	NC_021161.1	Ca_Kabuli_Chr02	30906209	TT	GG	GG	INTERGENIC		
SNP_10909_A_30909983	NC_021161.1	Ca_Kabuli_Chr02	30909983	GG	CC	CC	INTRON	101499129	anaphase-promoting complex subunit 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10910_A_30912471	NC_021161.1	Ca_Kabuli_Chr02	30912471	AA	TT	TT	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10911_A_30915461	NC_021161.1	Ca_Kabuli_Chr02	30915461	AA	GG	GG	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10912_A_30916565	NC_021161.1	Ca_Kabuli_Chr02	30916565	GG	TT	TT	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10913_A_30920573	NC_021161.1	Ca_Kabuli_Chr02	30920573	GG	AA	AA	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10914_A_30927050	NC_021161.1	Ca_Kabuli_Chr02	30927050	AA	CC	CC	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10915_A_30927063	NC_021161.1	Ca_Kabuli_Chr02	30927063	CC	AA	AA	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10916_A_30930857	NC_021161.1	Ca_Kabuli_Chr02	30930857	TT	CC	CC	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10917_A_30930860	NC_021161.1	Ca_Kabuli_Chr02	30930860	CC	TT	TT	INTRON	101499129	anaphase-promoting complex subunit 1
SNP_10918_A_30933581	NC_021161.1	Ca_Kabuli_Chr02	30933581	GG	TT	TT	URR	101499129	anaphase-promoting complex subunit 1
SNP_10919_A_30933605	NC_021161.1	Ca_Kabuli_Chr02	30933605	GG	AA	AA	URR	101499129	anaphase-promoting complex subunit 1
SNP_10920_A_30936944	NC_021161.1	Ca_Kabuli_Chr02	30936944	TT	GG	GG	INTERGENIC		
SNP_10921_A_30938122	NC_021161.1	Ca_Kabuli_Chr02	30938122	GG	AA	AA	INTERGENIC		
SNP_10922_A_30942394	NC_021161.1	Ca_Kabuli_Chr02	30942394	GG	TT	TT	INTERGENIC		
SNP_10923_A_30942793	NC_021161.1	Ca_Kabuli_Chr02	30942793	GG	CC	CC	INTERGENIC		
SNP_10924_A_30942801	NC_021161.1	Ca_Kabuli_Chr02	30942801	AA	GG	GG	INTERGENIC		
SNP_10925_A_30943057	NC_021161.1	Ca_Kabuli_Chr02	30943057	AA	TT	TT	INTERGENIC		
SNP_10926_A_30943059	NC_021161.1	Ca_Kabuli_Chr02	30943059	AA	CC	CC	INTERGENIC		
SNP_10927_A_30943305	NC_021161.1	Ca_Kabuli_Chr02	30943305	TT	GG	GG	DRR	101514746	clathrin heavy chain 2
SNP_10929_A_30949199	NC_021161.1	Ca_Kabuli_Chr02	30949199	AA	GG	GG	INTRON	101514746	clathrin heavy chain 2
SNP_10930_A_30953606	NC_021161.1	Ca_Kabuli_Chr02	30953606	TT	CC	CC	SYNONYMOUS_CODING	101514746	clathrin heavy chain 2
SNP_10931_A_30954701	NC_021161.1	Ca_Kabuli_Chr02	30954701	AA	GG	GG	SYNONYMOUS_CODING	101514746	clathrin heavy chain 2
SNP_10932_A_30957589	NC_021161.1	Ca_Kabuli_Chr02	30957589	TT	AA	AA	URR	101514746	clathrin heavy chain 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_10933_A_30957590	NC_021161.1	Ca_Kabuli_Chr02	30957590	TT	AA	AA	URR		101514746	clathrin heavy chain 2
SNP_10934_A_30957619	NC_021161.1	Ca_Kabuli_Chr02	30957619	CC	TT	TT	URR		101514746	clathrin heavy chain 2
SNP_10935_A_30957846	NC_021161.1	Ca_Kabuli_Chr02	30957846	TT	CC	CC	URR		101514746	clathrin heavy chain 2
SNP_10936_A_30957888	NC_021161.1	Ca_Kabuli_Chr02	30957888	GG	AA	AA	URR		101514746	clathrin heavy chain 2
SNP_10937_A_30958001	NC_021161.1	Ca_Kabuli_Chr02	30958001	AA	GG	GG	URR		101514746	clathrin heavy chain 2
SNP_10938_A_30958778	NC_021161.1	Ca_Kabuli_Chr02	30958778	CC	TT	TT	DRR		101514420	transcription factor MYB44-like
SNP_10939_A_30962699	NC_021161.1	Ca_Kabuli_Chr02	30962699	TT	CC	CC	URR		101514420	transcription factor MYB44-like
SNP_10940_A_30963081	NC_021161.1	Ca_Kabuli_Chr02	30963081	TT	CC	CC	INTERGENIC			
SNP_10941_A_30963111	NC_021161.1	Ca_Kabuli_Chr02	30963111	AA	GG	GG	INTERGENIC			
SNP_10943_A_30963191	NC_021161.1	Ca_Kabuli_Chr02	30963191	GG	TT	TT	INTERGENIC			
SNP_10944_A_30963461	NC_021161.1	Ca_Kabuli_Chr02	30963461	TT	CC	CC	INTERGENIC			
SNP_10945_A_30963779	NC_021161.1	Ca_Kabuli_Chr02	30963779	TT	GG	GG	INTERGENIC			
SNP_10946_A_30964140	NC_021161.1	Ca_Kabuli_Chr02	30964140	CC	AA	AA	INTERGENIC			
SNP_10947_A_30964158	NC_021161.1	Ca_Kabuli_Chr02	30964158	GG	TT	TT	INTERGENIC			
SNP_10948_A_30967823	NC_021161.1	Ca_Kabuli_Chr02	30967823	AA	GG	GG	URR		101514211	uncharacterized LOC101514211
SNP_10949_A_30967894	NC_021161.1	Ca_Kabuli_Chr02	30967894	TT	GG	GG	INTERGENIC			
SNP_10950_A_30967901	NC_021161.1	Ca_Kabuli_Chr02	30967901	TT	CC	CC	INTERGENIC			
SNP_10951_A_30968584	NC_021161.1	Ca_Kabuli_Chr02	30968584	CC	AA	AA	INTERGENIC			
SNP_10952_A_30969223	NC_021161.1	Ca_Kabuli_Chr02	30969223	CC	TT	TT	INTERGENIC			
SNP_10953_A_30979164	NC_021161.1	Ca_Kabuli_Chr02	30979164	TT	AA	AA	INTERGENIC			
SNP_10954_A_30979203	NC_021161.1	Ca_Kabuli_Chr02	30979203	CC	TT	TT	INTERGENIC			
SNP_10955_A_30979221	NC_021161.1	Ca_Kabuli_Chr02	30979221	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10956_A_30979246	NC_021161.1	Ca_Kabuli_Chr02	30979246	GG	AA	AA	INTERGENIC		
SNP_10957_A_30979384	NC_021161.1	Ca_Kabuli_Chr02	30979384	TT	GG	GG	INTERGENIC		
SNP_10958_A_30982698	NC_021161.1	Ca_Kabuli_Chr02	30982698	TT	GG	GG	URR	101513864	RING-H2 finger protein ATL66
SNP_10959_A_30982703	NC_021161.1	Ca_Kabuli_Chr02	30982703	AA	GG	GG	URR	101513864	RING-H2 finger protein ATL66
SNP_10960_A_30987779	NC_021161.1	Ca_Kabuli_Chr02	30987779	AA	TT	TT	INTERGENIC		
SNP_10961_A_30988444	NC_021161.1	Ca_Kabuli_Chr02	30988444	GG	AA	AA	INTERGENIC		
SNP_10962_A_30991163	NC_021161.1	Ca_Kabuli_Chr02	30991163	AA	CC	CC	INTERGENIC		
SNP_10963_A_30991208	NC_021161.1	Ca_Kabuli_Chr02	30991208	TT	CC	CC	INTERGENIC		
SNP_10965_A_30997236	NC_021161.1	Ca_Kabuli_Chr02	30997236	GG	AA	AA	DRR	101499450	ethylene-responsive transcription factor ABI4
SNP_10966_A_30997574	NC_021161.1	Ca_Kabuli_Chr02	30997574	CC	AA	AA	NON_SYNONYMOUS_CODING	101499450	ethylene-responsive transcription factor ABI4
SNP_10967_A_30997873	NC_021161.1	Ca_Kabuli_Chr02	30997873	AA	TT	TT	NON_SYNONYMOUS_CODING	101499450	ethylene-responsive transcription factor ABI4
SNP_10968_A_30999531	NC_021161.1	Ca_Kabuli_Chr02	30999531	AA	CC	CC	URR	101499450	ethylene-responsive transcription factor ABI4
SNP_10969_A_31004191	NC_021161.1	Ca_Kabuli_Chr02	31004191	GG	AA	AA	INTERGENIC		
SNP_10970_A_31004236	NC_021161.1	Ca_Kabuli_Chr02	31004236	GG	AA	AA	INTERGENIC		
SNP_10971_A_31004237	NC_021161.1	Ca_Kabuli_Chr02	31004237	CC	GG	GG	INTERGENIC		
SNP_10972_A_31004884	NC_021161.1	Ca_Kabuli_Chr02	31004884	AA	GG	GG	DRR	101513557	LOB domain-containing protein 21
SNP_10973_A_31006876	NC_021161.1	Ca_Kabuli_Chr02	31006876	GG	AA	AA	URR	101513557	LOB domain-containing protein 21
SNP_10974_A_31007180	NC_021161.1	Ca_Kabuli_Chr02	31007180	GG	CC	CC	URR	101513557	LOB domain-containing protein 21
SNP_10975_A_31007204	NC_021161.1	Ca_Kabuli_Chr02	31007204	CC	TT	TT	URR	101513557	LOB domain-containing protein 21
SNP_10976_A_31007264	NC_021161.1	Ca_Kabuli_Chr02	31007264	TT	CC	CC	URR	101513557	LOB domain-containing protein 21
SNP_10977_A_31007596	NC_021161.1	Ca_Kabuli_Chr02	31007596	AA	TT	TT	URR	101513557	LOB domain-containing protein 21
SNP_10978_A_31009132	NC_021161.1	Ca_Kabuli_Chr02	31009132	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_10979_A_31009138	NC_021161.1	Ca_Kabuli_Chr02	31009138	AA	TT	TT	INTERGENIC		
SNP_10980_A_31009562	NC_021161.1	Ca_Kabuli_Chr02	31009562	AA	GG	GG	INTERGENIC		
SNP_10981_A_31009581	NC_021161.1	Ca_Kabuli_Chr02	31009581	AA	TT	TT	INTERGENIC		
SNP_10982_A_31009889	NC_021161.1	Ca_Kabuli_Chr02	31009889	TT	GG	GG	INTERGENIC		
SNP_10983_A_31009890	NC_021161.1	Ca_Kabuli_Chr02	31009890	TT	GG	GG	INTERGENIC		
SNP_10984_A_31009894	NC_021161.1	Ca_Kabuli_Chr02	31009894	CC	TT	TT	INTERGENIC		
SNP_10985_A_31009905	NC_021161.1	Ca_Kabuli_Chr02	31009905	TT	AA	AA	INTERGENIC		
SNP_10986_A_31009938	NC_021161.1	Ca_Kabuli_Chr02	31009938	AA	TT	TT	INTERGENIC		
SNP_10987_A_31009952	NC_021161.1	Ca_Kabuli_Chr02	31009952	AA	GG	GG	INTERGENIC		
SNP_10988_A_31010312	NC_021161.1	Ca_Kabuli_Chr02	31010312	TT	GG	GG	INTERGENIC		
SNP_10989_A_31010557	NC_021161.1	Ca_Kabuli_Chr02	31010557	TT	CC	CC	INTERGENIC		
SNP_10990_A_31012312	NC_021161.1	Ca_Kabuli_Chr02	31012312	GG	AA	AA	INTERGENIC		
SNP_10991_A_31012489	NC_021161.1	Ca_Kabuli_Chr02	31012489	TT	CC	CC	INTERGENIC		
SNP_10993_A_31013910	NC_021161.1	Ca_Kabuli_Chr02	31013910	AA	GG	GG	DRR	101513231	U-box domain-containing protein 13-like
SNP_10994_A_31013920	NC_021161.1	Ca_Kabuli_Chr02	31013920	GG	AA	AA	DRR	101513231	U-box domain-containing protein 13-like
SNP_10995_A_31013933	NC_021161.1	Ca_Kabuli_Chr02	31013933	TT	CC	CC	DRR	101513231	U-box domain-containing protein 13-like
SNP_10996_A_31015768	NC_021161.1	Ca_Kabuli_Chr02	31015768	CC	AA	AA	INTERGENIC		
SNP_10997_A_31016590	NC_021161.1	Ca_Kabuli_Chr02	31016590	CC	TT	TT	INTERGENIC		
SNP_10998_A_31017514	NC_021161.1	Ca_Kabuli_Chr02	31017514	CC	TT	TT	URR	101513231	U-box domain-containing protein 13-like
SNP_10999_A_31017731	NC_021161.1	Ca_Kabuli_Chr02	31017731	GG	AA	AA	DRR	101512907	uncharacterized LOC101512907
SNP_11001_A_31017941	NC_021161.1	Ca_Kabuli_Chr02	31017941	GG	AA	AA	DRR	101512907	uncharacterized LOC101512907
SNP_11002_A_31017944	NC_021161.1	Ca_Kabuli_Chr02	31017944	AA	GG	GG	DRR	101512907	uncharacterized LOC101512907

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11003_A_31020198	NC_021161.1	Ca_Kabuli_Chr02	31020198	CC	AA	AA	INTERGENIC		
SNP_11004_A_31028976	NC_021161.1	Ca_Kabuli_Chr02	31028976	GG	AA	AA	DRR	101512374	probable inactive receptor-like protein kinase At3g56050
SNP_11005_A_31033817	NC_021161.1	Ca_Kabuli_Chr02	31033817	TT	CC	CC	INTRON	101512374	probable inactive receptor-like protein kinase At3g56050
SNP_11006_A_31035179	NC_021161.1	Ca_Kabuli_Chr02	31035179	TT	CC	CC	URR	101512374	probable inactive receptor-like protein kinase At3g56050
SNP_11007_A_31036218	NC_021161.1	Ca_Kabuli_Chr02	31036218	AA	TT	TT	INTERGENIC		
SNP_11008_A_31036250	NC_021161.1	Ca_Kabuli_Chr02	31036250	AA	GG	GG	INTERGENIC		
SNP_11009_A_31036254	NC_021161.1	Ca_Kabuli_Chr02	31036254	AA	TT	TT	INTERGENIC		
SNP_11010_A_31039584	NC_021161.1	Ca_Kabuli_Chr02	31039584	GG	AA	AA	INTERGENIC		
SNP_11011_A_31039598	NC_021161.1	Ca_Kabuli_Chr02	31039598	GG	AA	AA	INTERGENIC		
SNP_11012_A_31039624	NC_021161.1	Ca_Kabuli_Chr02	31039624	TT	CC	CC	INTERGENIC		
SNP_11013_A_31040757	NC_021161.1	Ca_Kabuli_Chr02	31040757	GG	AA	AA	INTERGENIC		
SNP_11015_A_31041741	NC_021161.1	Ca_Kabuli_Chr02	31041741	CC	TT	TT	INTERGENIC		
SNP_11016_A_31041756	NC_021161.1	Ca_Kabuli_Chr02	31041756	TT	CC	CC	INTERGENIC		
SNP_11017_A_31041764	NC_021161.1	Ca_Kabuli_Chr02	31041764	TT	CC	CC	INTERGENIC		
SNP_11018_A_31042052	NC_021161.1	Ca_Kabuli_Chr02	31042052	AA	GG	GG	INTERGENIC		
SNP_11019_A_31042550	NC_021161.1	Ca_Kabuli_Chr02	31042550	CC	AA	AA	INTERGENIC		
SNP_11020_A_31042596	NC_021161.1	Ca_Kabuli_Chr02	31042596	GG	CC	CC	INTERGENIC		
SNP_11021_A_31042981	NC_021161.1	Ca_Kabuli_Chr02	31042981	CC	AA	AA	INTERGENIC		
SNP_11022_A_31042982	NC_021161.1	Ca_Kabuli_Chr02	31042982	GG	AA	AA	INTERGENIC		
SNP_11023_A_31043004	NC_021161.1	Ca_Kabuli_Chr02	31043004	AA	GG	GG	INTERGENIC		
SNP_11024_A_31043210	NC_021161.1	Ca_Kabuli_Chr02	31043210	AA	GG	GG	INTERGENIC		
SNP_11025_A_31043215	NC_021161.1	Ca_Kabuli_Chr02	31043215	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11026_A_31044684	NC_021161.1	Ca_Kabuli_Chr02	31044684	TT	CC	CC	SYNONYMOUS_CODING	101512046	uncharacterized protein At5g39865-like
SNP_11027_A_31047576	NC_021161.1	Ca_Kabuli_Chr02	31047576	TT	AA	AA	INTERGENIC		
SNP_11028_A_31047582	NC_021161.1	Ca_Kabuli_Chr02	31047582	AA	TT	TT	INTERGENIC		
SNP_11029_A_31047616	NC_021161.1	Ca_Kabuli_Chr02	31047616	CC	TT	TT	INTERGENIC		
SNP_11030_A_31047637	NC_021161.1	Ca_Kabuli_Chr02	31047637	AA	GG	GG	INTERGENIC		
SNP_11031_A_31050299	NC_021161.1	Ca_Kabuli_Chr02	31050299	GG	TT	TT	DRR	101500067	sister chromatid cohesion 1 protein 1
SNP_11032_A_31051479	NC_021161.1	Ca_Kabuli_Chr02	31051479	GG	AA	AA	INTRON	101500067	sister chromatid cohesion 1 protein 1
SNP_11034_A_31060072	NC_021161.1	Ca_Kabuli_Chr02	31060072	GG	AA	AA	INTRON	101500067	sister chromatid cohesion 1 protein 1
SNP_11035_A_31061742	NC_021161.1	Ca_Kabuli_Chr02	31061742	AA	CC	CC	URR	101500067	sister chromatid cohesion 1 protein 1
SNP_11036_A_31072486	NC_021161.1	Ca_Kabuli_Chr02	31072486	CC	TT	TT	INTERGENIC		
SNP_11037_A_31072763	NC_021161.1	Ca_Kabuli_Chr02	31072763	CC	AA	AA	INTERGENIC		
SNP_11038_A_31072819	NC_021161.1	Ca_Kabuli_Chr02	31072819	GG	TT	TT	INTERGENIC		
SNP_11039_A_31072839	NC_021161.1	Ca_Kabuli_Chr02	31072839	TT	GG	GG	INTERGENIC		
SNP_11040_A_31072916	NC_021161.1	Ca_Kabuli_Chr02	31072916	CC	AA	AA	INTERGENIC		
SNP_11041_A_31073002	NC_021161.1	Ca_Kabuli_Chr02	31073002	TT	CC	CC	INTERGENIC		
SNP_11042_A_31073368	NC_021161.1	Ca_Kabuli_Chr02	31073368	AA	TT	TT	INTERGENIC		
SNP_11043_A_31073579	NC_021161.1	Ca_Kabuli_Chr02	31073579	TT	CC	CC	INTERGENIC		
SNP_11044_A_31076994	NC_021161.1	Ca_Kabuli_Chr02	31076994	GG	CC	CC	DRR	101511092	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A
SNP_11045_A_31077397	NC_021161.1	Ca_Kabuli_Chr02	31077397	AA	GG	GG	DRR	101511092	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A
SNP_11046_A_31077398	NC_021161.1	Ca_Kabuli_Chr02	31077398	CC	TT	TT	DRR	101511092	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A
SNP_11047_A_31077461	NC_021161.1	Ca_Kabuli_Chr02	31077461	AA	GG	GG	DRR	101511092	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A
SNP_11048_A_31081079	NC_021161.1	Ca_Kabuli_Chr02	31081079	AA	GG	GG	URR	101511092	peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11049_A_31081869	NC_021161.1	Ca_Kabuli_Chr02	31081869	CC	TT	TT	URR	101410588	transfer RNA lysine (anticodon CUU)
SNP_11050_A_31081876	NC_021161.1	Ca_Kabuli_Chr02	31081876	TT	CC	CC	URR	101410588	transfer RNA lysine (anticodon CUU)
SNP_11051_A_31081912	NC_021161.1	Ca_Kabuli_Chr02	31081912	GG	AA	AA	URR	101410588	transfer RNA lysine (anticodon CUU)
SNP_11052_A_31083069	NC_021161.1	Ca_Kabuli_Chr02	31083069	GG	AA	AA	INTERGENIC		
SNP_11053_A_31083283	NC_021161.1	Ca_Kabuli_Chr02	31083283	TT	CC	CC	INTERGENIC		
SNP_11054_A_31083308	NC_021161.1	Ca_Kabuli_Chr02	31083308	TT	CC	CC	INTERGENIC		
SNP_11055_A_31084640	NC_021161.1	Ca_Kabuli_Chr02	31084640	TT	CC	CC	INTERGENIC		
SNP_11056_A_31084674	NC_021161.1	Ca_Kabuli_Chr02	31084674	GG	CC	CC	INTERGENIC		
SNP_11057_A_31085041	NC_021161.1	Ca_Kabuli_Chr02	31085041	CC	AA	AA	INTERGENIC		
SNP_11059_A_31085106	NC_021161.1	Ca_Kabuli_Chr02	31085106	TT	CC	CC	INTERGENIC		
SNP_11060_A_31085111	NC_021161.1	Ca_Kabuli_Chr02	31085111	CC	TT	TT	INTERGENIC		
SNP_11061_A_31085114	NC_021161.1	Ca_Kabuli_Chr02	31085114	CC	TT	TT	INTERGENIC		
SNP_11062_A_31085115	NC_021161.1	Ca_Kabuli_Chr02	31085115	CC	TT	TT	INTERGENIC		
SNP_11063_A_31085377	NC_021161.1	Ca_Kabuli_Chr02	31085377	CC	GG	GG	INTERGENIC		
SNP_11064_A_31085458	NC_021161.1	Ca_Kabuli_Chr02	31085458	AA	TT	TT	INTERGENIC		
SNP_11065_A_31085461	NC_021161.1	Ca_Kabuli_Chr02	31085461	AA	GG	GG	INTERGENIC		
SNP_11066_A_31085478	NC_021161.1	Ca_Kabuli_Chr02	31085478	CC	TT	TT	INTERGENIC		
SNP_11067_A_31085682	NC_021161.1	Ca_Kabuli_Chr02	31085682	AA	GG	GG	INTERGENIC		
SNP_11068_A_31086009	NC_021161.1	Ca_Kabuli_Chr02	31086009	AA	TT	TT	INTERGENIC		
SNP_11069_A_31087443	NC_021161.1	Ca_Kabuli_Chr02	31087443	TT	GG	GG	DRR	101510766	40S ribosomal protein S4-1-like
SNP_11070_A_31088609	NC_021161.1	Ca_Kabuli_Chr02	31088609	CC	TT	TT	INTERGENIC		
SNP_11071_A_31088617	NC_021161.1	Ca_Kabuli_Chr02	31088617	GG	AA	AA	INTERGENIC		

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SNP_11072_A_31089663	NC_021161.1	Ca_Kabuli_Chr02	31089663	TT	CC	CC	INTERGENIC		
SNP_11073_A_31089684	NC_021161.1	Ca_Kabuli_Chr02	31089684	AA	TT	TT	INTERGENIC		
SNP_11074_A_31091348	NC_021161.1	Ca_Kabuli_Chr02	31091348	GG	AA	AA	DRR	101510209	ferritin-4, chloroplastic
SNP_11075_A_31091350	NC_021161.1	Ca_Kabuli_Chr02	31091350	GG	AA	AA	DRR	101510209	ferritin-4, chloroplastic
SNP_11076_A_31091575	NC_021161.1	Ca_Kabuli_Chr02	31091575	GG	TT	TT	DRR	101510209	ferritin-4, chloroplastic
SNP_11077_A_31092679	NC_021161.1	Ca_Kabuli_Chr02	31092679	AA	TT	TT	INTERGENIC		
SNP_11078_A_31092974	NC_021161.1	Ca_Kabuli_Chr02	31092974	GG	AA	AA	INTERGENIC		
SNP_11079_A_31094856	NC_021161.1	Ca_Kabuli_Chr02	31094856	TT	CC	CC	URR	101510209	ferritin-4, chloroplastic
SNP_11080_A_31098851	NC_021161.1	Ca_Kabuli_Chr02	31098851	CC	TT	TT	INTERGENIC		
SNP_11081_A_31103306	NC_021161.1	Ca_Kabuli_Chr02	31103306	CC	GG	GG	INTRON	101509890	putative glutamine amidotransferase YLR126C
SNP_11082_A_31103312	NC_021161.1	Ca_Kabuli_Chr02	31103312	CC	TT	TT	INTRON	101509890	putative glutamine amidotransferase YLR126C
SNP_11083_A_31103320	NC_021161.1	Ca_Kabuli_Chr02	31103320	GG	AA	AA	INTRON	101509890	putative glutamine amidotransferase YLR126C
SNP_11084_A_31104021	NC_021161.1	Ca_Kabuli_Chr02	31104021	GG	AA	AA	INTRON	101509890	putative glutamine amidotransferase YLR126C
SNP_11085_A_31104042	NC_021161.1	Ca_Kabuli_Chr02	31104042	GG	TT	TT	INTRON	101509890	putative glutamine amidotransferase YLR126C
SNP_11086_A_31104814	NC_021161.1	Ca_Kabuli_Chr02	31104814	AA	GG	GG	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11087_A_31104916	NC_021161.1	Ca_Kabuli_Chr02	31104916	GG	AA	AA	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11088_A_31104945	NC_021161.1	Ca_Kabuli_Chr02	31104945	GG	AA	AA	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11089_A_31105204	NC_021161.1	Ca_Kabuli_Chr02	31105204	TT	GG	GG	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11090_A_31105889	NC_021161.1	Ca_Kabuli_Chr02	31105889	TT	GG	GG	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11092_A_31106178	NC_021161.1	Ca_Kabuli_Chr02	31106178	AA	TT	TT	URR	101509890	putative glutamine amidotransferase YLR126C
SNP_11093_A_31106783	NC_021161.1	Ca_Kabuli_Chr02	31106783	TT	CC	CC	INTERGENIC		
SNP_11094_A_31106793	NC_021161.1	Ca_Kabuli_Chr02	31106793	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_11095_A_31106804	NC_021161.1	Ca_Kabuli_Chr02	31106804	AA	CC	CC	INTERGENIC			
SNP_11096_A_31106931	NC_021161.1	Ca_Kabuli_Chr02	31106931	AA	GG	GG	INTERGENIC			
SNP_11097_A_31106956	NC_021161.1	Ca_Kabuli_Chr02	31106956	AA	GG	GG	INTERGENIC			
SNP_11098_A_31106958	NC_021161.1	Ca_Kabuli_Chr02	31106958	CC	GG	GG	INTERGENIC			
SNP_11099_A_31106971	NC_021161.1	Ca_Kabuli_Chr02	31106971	AA	GG	GG	INTERGENIC			
SNP_11100_A_31106988	NC_021161.1	Ca_Kabuli_Chr02	31106988	AA	GG	GG	INTERGENIC			
SNP_11101_A_31107037	NC_021161.1	Ca_Kabuli_Chr02	31107037	TT	CC	CC	INTERGENIC			
SNP_11102_A_31107589	NC_021161.1	Ca_Kabuli_Chr02	31107589	CC	TT	TT	INTERGENIC			
SNP_11103_A_31107741	NC_021161.1	Ca_Kabuli_Chr02	31107741	AA	GG	GG	INTERGENIC			
SNP_11104_A_31107783	NC_021161.1	Ca_Kabuli_Chr02	31107783	AA	TT	TT	INTERGENIC			
SNP_11105_A_31107819	NC_021161.1	Ca_Kabuli_Chr02	31107819	TT	AA	AA	INTERGENIC			
SNP_11106_A_31107910	NC_021161.1	Ca_Kabuli_Chr02	31107910	CC	TT	TT	INTERGENIC			
SNP_11107_A_31107918	NC_021161.1	Ca_Kabuli_Chr02	31107918	TT	CC	CC	INTERGENIC			
SNP_11108_A_31107933	NC_021161.1	Ca_Kabuli_Chr02	31107933	CC	GG	GG	INTERGENIC			
SNP_11109_A_31107960	NC_021161.1	Ca_Kabuli_Chr02	31107960	AA	TT	TT	INTERGENIC			
SNP_11110_A_31108090	NC_021161.1	Ca_Kabuli_Chr02	31108090	TT	CC	CC	INTERGENIC			
SNP_11112_A_31108153	NC_021161.1	Ca_Kabuli_Chr02	31108153	GG	AA	AA	INTERGENIC			
SNP_11113_A_31108184	NC_021161.1	Ca_Kabuli_Chr02	31108184	AA	CC	CC	INTERGENIC			
SNP_11114_A_31108195	NC_021161.1	Ca_Kabuli_Chr02	31108195	CC	AA	AA	INTERGENIC			
SNP_11115_A_31108509	NC_021161.1	Ca_Kabuli_Chr02	31108509	CC	AA	AA	INTERGENIC			
SNP_11116_A_31108527	NC_021161.1	Ca_Kabuli_Chr02	31108527	TT	AA	AA	INTERGENIC			
SNP_11117_A_31108537	NC_021161.1	Ca_Kabuli_Chr02	31108537	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11118_A_31108578	NC_021161.1	Ca_Kabuli_Chr02	31108578	GG	AA	AA	INTERGENIC		
SNP_11120_A_31108700	NC_021161.1	Ca_Kabuli_Chr02	31108700	GG	AA	AA	INTERGENIC		
SNP_11121_A_31108836	NC_021161.1	Ca_Kabuli_Chr02	31108836	AA	TT	TT	INTERGENIC		
SNP_11122_A_31109358	NC_021161.1	Ca_Kabuli_Chr02	31109358	TT	CC	CC	INTERGENIC		
SNP_11123_A_31109435	NC_021161.1	Ca_Kabuli_Chr02	31109435	GG	AA	AA	INTERGENIC		
SNP_11125_A_31109502	NC_021161.1	Ca_Kabuli_Chr02	31109502	CC	TT	TT	INTERGENIC		
SNP_11126_A_31109558	NC_021161.1	Ca_Kabuli_Chr02	31109558	AA	TT	TT	INTERGENIC		
SNP_11127_A_31109615	NC_021161.1	Ca_Kabuli_Chr02	31109615	CC	AA	AA	INTERGENIC		
SNP_11128_A_31109760	NC_021161.1	Ca_Kabuli_Chr02	31109760	TT	GG	GG	INTERGENIC		
SNP_11129_A_31109851	NC_021161.1	Ca_Kabuli_Chr02	31109851	GG	TT	TT	INTERGENIC		
SNP_11130_A_31109874	NC_021161.1	Ca_Kabuli_Chr02	31109874	TT	CC	CC	INTERGENIC		
SNP_11131_A_31109889	NC_021161.1	Ca_Kabuli_Chr02	31109889	CC	TT	TT	INTERGENIC		
SNP_11132_A_31110060	NC_021161.1	Ca_Kabuli_Chr02	31110060	GG	TT	TT	INTERGENIC		
SNP_11133_A_31110661	NC_021161.1	Ca_Kabuli_Chr02	31110661	AA	TT	TT	DRR	101509568	putative glutamine amidotransferase YLR126C
SNP_11134_A_31110687	NC_021161.1	Ca_Kabuli_Chr02	31110687	TT	CC	CC	DRR	101509568	putative glutamine amidotransferase YLR126C
SNP_11135_A_31111046	NC_021161.1	Ca_Kabuli_Chr02	31111046	TT	GG	GG	DRR	101509568	putative glutamine amidotransferase YLR126C
SNP_11136_A_31111150	NC_021161.1	Ca_Kabuli_Chr02	31111150	CC	GG	GG	DRR	101509568	putative glutamine amidotransferase YLR126C
SNP_11137_A_31111633	NC_021161.1	Ca_Kabuli_Chr02	31111633	CC	TT	TT	INTRON	101509568	putative glutamine amidotransferase YLR126C
SNP_11138_A_31111655	NC_021161.1	Ca_Kabuli_Chr02	31111655	TT	GG	GG	INTRON	101509568	putative glutamine amidotransferase YLR126C
SNP_11139_A_31111803	NC_021161.1	Ca_Kabuli_Chr02	31111803	AA	GG	GG	INTRON	101509568	putative glutamine amidotransferase YLR126C
SNP_11140_A_31111857	NC_021161.1	Ca_Kabuli_Chr02	31111857	CC	TT	TT	INTRON	101509568	putative glutamine amidotransferase YLR126C
SNP_11141_A_31112155	NC_021161.1	Ca_Kabuli_Chr02	31112155	CC	TT	TT	INTRON	101509568	putative glutamine amidotransferase YLR126C

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11142_A_31112189	NC_021161.1	Ca_Kabuli_Chr02	31112189	GG	AA	AA	INTRON	101509568	putative glutamine amidotransferase YLR126C
SNP_11143_A_31112261	NC_021161.1	Ca_Kabuli_Chr02	31112261	AA	GG	GG	SYNONYMOUS_CODING	101509568	putative glutamine amidotransferase YLR126C
SNP_11144_A_31115618	NC_021161.1	Ca_Kabuli_Chr02	31115618	CC	TT	TT	URR	101509568	putative glutamine amidotransferase YLR126C
SNP_11145_A_31115654	NC_021161.1	Ca_Kabuli_Chr02	31115654	TT	CC	CC	URR	101509568	putative glutamine amidotransferase YLR126C
SNP_11146_A_31116979	NC_021161.1	Ca_Kabuli_Chr02	31116979	AA	TT	TT	INTERGENIC		
SNP_11147_A_31117002	NC_021161.1	Ca_Kabuli_Chr02	31117002	CC	TT	TT	INTERGENIC		
SNP_11148_A_31117210	NC_021161.1	Ca_Kabuli_Chr02	31117210	AA	GG	GG	INTERGENIC		
SNP_11149_A_31117243	NC_021161.1	Ca_Kabuli_Chr02	31117243	GG	TT	TT	INTERGENIC		
SNP_11151_A_31118895	NC_021161.1	Ca_Kabuli_Chr02	31118895	CC	TT	TT	INTERGENIC		
SNP_11152_A_31119144	NC_021161.1	Ca_Kabuli_Chr02	31119144	AA	GG	GG	INTERGENIC		
SNP_11153_A_31122637	NC_021161.1	Ca_Kabuli_Chr02	31122637	CC	GG	GG	INTERGENIC		
SNP_11154_A_31122919	NC_021161.1	Ca_Kabuli_Chr02	31122919	CC	GG	GG	INTERGENIC		
SNP_11155_A_31123088	NC_021161.1	Ca_Kabuli_Chr02	31123088	AA	GG	GG	INTERGENIC		
SNP_11156_A_31123102	NC_021161.1	Ca_Kabuli_Chr02	31123102	TT	CC	CC	INTERGENIC		
SNP_11157_A_31123830	NC_021161.1	Ca_Kabuli_Chr02	31123830	GG	TT	TT	INTERGENIC		
SNP_11159_A_31125355	NC_021161.1	Ca_Kabuli_Chr02	31125355	AA	TT	TT	INTERGENIC		
SNP_11160_A_31125507	NC_021161.1	Ca_Kabuli_Chr02	31125507	CC	GG	GG	INTERGENIC		
SNP_11161_A_31125826	NC_021161.1	Ca_Kabuli_Chr02	31125826	CC	AA	AA	INTERGENIC		
SNP_11162_A_31125887	NC_021161.1	Ca_Kabuli_Chr02	31125887	TT	AA	AA	INTERGENIC		
SNP_11163_A_31127463	NC_021161.1	Ca_Kabuli_Chr02	31127463	CC	AA	AA	INTRON	101509246	LOB domain-containing protein 12-like
SNP_11164_A_31128608	NC_021161.1	Ca_Kabuli_Chr02	31128608	TT	CC	CC	URR	101509246	LOB domain-containing protein 12-like
SNP_11166_A_31133074	NC_021161.1	Ca_Kabuli_Chr02	31133074	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11168_A_31137897	NC_021161.1	Ca_Kabuli_Chr02	31137897	CC	TT	TT	INTRON	101508931	protein trichome birefringence-like 33
SNP_11169_A_31137943	NC_021161.1	Ca_Kabuli_Chr02	31137943	AA	GG	GG	INTRON	101508931	protein trichome birefringence-like 33
SNP_11170_A_31138034	NC_021161.1	Ca_Kabuli_Chr02	31138034	GG	AA	AA	INTRON	101508931	protein trichome birefringence-like 33
SNP_11171_A_31138097	NC_021161.1	Ca_Kabuli_Chr02	31138097	CC	TT	TT	INTRON	101508931	protein trichome birefringence-like 33
SNP_11172_A_31138215	NC_021161.1	Ca_Kabuli_Chr02	31138215	TT	AA	AA	INTRON	101508931	protein trichome birefringence-like 33
SNP_11174_A_31138448	NC_021161.1	Ca_Kabuli_Chr02	31138448	AA	CC	CC	INTRON	101508931	protein trichome birefringence-like 33
SNP_11175_A_31139160	NC_021161.1	Ca_Kabuli_Chr02	31139160	CC	GG	GG	URR	101508931	protein trichome birefringence-like 33
SNP_11176_A_31141711	NC_021161.1	Ca_Kabuli_Chr02	31141711	TT	CC	CC	INTERGENIC		
SNP_11177_A_31142011	NC_021161.1	Ca_Kabuli_Chr02	31142011	TT	CC	CC	INTERGENIC		
SNP_11178_A_31142012	NC_021161.1	Ca_Kabuli_Chr02	31142012	AA	CC	CC	INTERGENIC		
SNP_11180_A_31146601	NC_021161.1	Ca_Kabuli_Chr02	31146601	CC	TT	TT	URR	101508615	abscisic acid receptor PYL4-like
SNP_11181_A_31146797	NC_021161.1	Ca_Kabuli_Chr02	31146797	GG	TT	TT	URR	101508615	abscisic acid receptor PYL4-like
SNP_11184_A_31158705	NC_021161.1	Ca_Kabuli_Chr02	31158705	TT	AA	AA	NON_SYNONYMOUS_CODING	101508296	SNF2 domain-containing protein CLASSY 1-like
SNP_11185_A_31159586	NC_021161.1	Ca_Kabuli_Chr02	31159586	GG	CC	CC	INTRON	101508296	SNF2 domain-containing protein CLASSY 1-like
SNP_11186_A_31159593	NC_021161.1	Ca_Kabuli_Chr02	31159593	TT	AA	AA	INTRON	101508296	SNF2 domain-containing protein CLASSY 1-like
SNP_11187_A_31159660	NC_021161.1	Ca_Kabuli_Chr02	31159660	GG	TT	TT	INTRON	101508296	SNF2 domain-containing protein CLASSY 1-like
SNP_11189_A_31163967	NC_021161.1	Ca_Kabuli_Chr02	31163967	AA	GG	GG	INTERGENIC		
SNP_11190_A_31164829	NC_021161.1	Ca_Kabuli_Chr02	31164829	TT	CC	CC	INTERGENIC		
SNP_11191_A_31169239	NC_021161.1	Ca_Kabuli_Chr02	31169239	AA	TT	TT	URR	101507986	dehydration-responsive element-binding protein 2C
SNP_11192_A_31169240	NC_021161.1	Ca_Kabuli_Chr02	31169240	CC	TT	TT	URR	101507986	dehydration-responsive element-binding protein 2C
SNP_11193_A_31169721	NC_021161.1	Ca_Kabuli_Chr02	31169721	CC	TT	TT	URR	101507986	dehydration-responsive element-binding protein 2C
SNP_11194_A_31170042	NC_021161.1	Ca_Kabuli_Chr02	31170042	AA	CC	CC	URR	101507986	dehydration-responsive element-binding protein 2C

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SNP_11195_A_31170859	NC_021161.1	Ca_Kabuli_Chr02	31170859	AA	GG	GG	INTERGENIC			
SNP_11196_A_31170861	NC_021161.1	Ca_Kabuli_Chr02	31170861	AA	TT	TT	INTERGENIC			
SNP_11197_A_31170866	NC_021161.1	Ca_Kabuli_Chr02	31170866	TT	CC	CC	INTERGENIC			
SNP_11198_A_31170867	NC_021161.1	Ca_Kabuli_Chr02	31170867	CC	TT	TT	INTERGENIC			
SNP_11199_A_31170877	NC_021161.1	Ca_Kabuli_Chr02	31170877	AA	TT	TT	INTERGENIC			
SNP_11200_A_31170888	NC_021161.1	Ca_Kabuli_Chr02	31170888	AA	GG	GG	INTERGENIC			
SNP_11202_A_31172877	NC_021161.1	Ca_Kabuli_Chr02	31172877	AA	GG	GG	INTERGENIC			
SNP_11204_A_31176248	NC_021161.1	Ca_Kabuli_Chr02	31176248	AA	GG	GG	INTERGENIC			
SNP_11205_A_31177062	NC_021161.1	Ca_Kabuli_Chr02	31177062	TT	AA	AA	INTERGENIC			
SNP_11206_A_31177095	NC_021161.1	Ca_Kabuli_Chr02	31177095	AA	GG	GG	INTERGENIC			
SNP_11208_A_31177125	NC_021161.1	Ca_Kabuli_Chr02	31177125	AA	GG	GG	INTERGENIC			
SNP_11209_A_31177766	NC_021161.1	Ca_Kabuli_Chr02	31177766	CC	TT	TT	INTERGENIC			
SNP_11210_A_31177772	NC_021161.1	Ca_Kabuli_Chr02	31177772	GG	AA	AA	INTERGENIC			
SNP_11211_A_31177920	NC_021161.1	Ca_Kabuli_Chr02	31177920	GG	AA	AA	INTERGENIC			
SNP_11213_A_31178888	NC_021161.1	Ca_Kabuli_Chr02	31178888	GG	TT	TT	INTERGENIC			
SNP_11214_A_31178889	NC_021161.1	Ca_Kabuli_Chr02	31178889	TT	CC	CC	INTERGENIC			
SNP_11215_A_31178923	NC_021161.1	Ca_Kabuli_Chr02	31178923	TT	CC	CC	INTERGENIC			
SNP_11216_A_31179092	NC_021161.1	Ca_Kabuli_Chr02	31179092	TT	GG	GG	INTERGENIC			
SNP_11217_A_31179201	NC_021161.1	Ca_Kabuli_Chr02	31179201	AA	TT	TT	INTERGENIC			
SNP_11218_A_31179293	NC_021161.1	Ca_Kabuli_Chr02	31179293	TT	CC	CC	INTERGENIC			
SNP_11219_A_31180025	NC_021161.1	Ca_Kabuli_Chr02	31180025	TT	CC	CC	INTERGENIC			
SNP_11220_A_31180259	NC_021161.1	Ca_Kabuli_Chr02	31180259	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11221_A_31180338	NC_021161.1	Ca_Kabuli_Chr02	31180338	CC	TT	TT	INTERGENIC		
SNP_11222_A_31180534	NC_021161.1	Ca_Kabuli_Chr02	31180534	CC	TT	TT	INTERGENIC		
SNP_11224_A_31187160	NC_021161.1	Ca_Kabuli_Chr02	31187160	GG	CC	CC	INTRON	101507664	laccase-5
SNP_11225_A_31187429	NC_021161.1	Ca_Kabuli_Chr02	31187429	GG	TT	TT	INTRON	101507664	laccase-5
SNP_11226_A_31188942	NC_021161.1	Ca_Kabuli_Chr02	31188942	TT	CC	CC	INTRON	101507664	laccase-5
SNP_11227_A_31188998	NC_021161.1	Ca_Kabuli_Chr02	31188998	GG	AA	AA	INTRON	101507664	laccase-5
SNP_11229_A_31189514	NC_021161.1	Ca_Kabuli_Chr02	31189514	AA	GG	GG	INTRON	101507664	laccase-5
SNP_11230_A_31189837	NC_021161.1	Ca_Kabuli_Chr02	31189837	CC	GG	GG	INTRON	101507664	laccase-5
SNP_11231_A_31189839	NC_021161.1	Ca_Kabuli_Chr02	31189839	CC	TT	TT	INTRON	101507664	laccase-5
SNP_11232_A_31190529	NC_021161.1	Ca_Kabuli_Chr02	31190529	GG	AA	AA	URR	101507664	laccase-5
SNP_11233_A_31190538	NC_021161.1	Ca_Kabuli_Chr02	31190538	CC	TT	TT	URR	101507664	laccase-5
SNP_11234_A_31191744	NC_021161.1	Ca_Kabuli_Chr02	31191744	TT	CC	CC	URR	101507664	laccase-5
SNP_11235_A_31194952	NC_021161.1	Ca_Kabuli_Chr02	31194952	TT	CC	CC	INTERGENIC		
SNP_11236_A_31195034	NC_021161.1	Ca_Kabuli_Chr02	31195034	GG	AA	AA	INTERGENIC		
SNP_11237_A_31195082	NC_021161.1	Ca_Kabuli_Chr02	31195082	CC	TT	TT	INTERGENIC		
SNP_11238_A_31196416	NC_021161.1	Ca_Kabuli_Chr02	31196416	TT	CC	CC	INTERGENIC		
SNP_11239_A_31196594	NC_021161.1	Ca_Kabuli_Chr02	31196594	TT	CC	CC	INTERGENIC		
SNP_11240_A_31198116	NC_021161.1	Ca_Kabuli_Chr02	31198116	AA	GG	GG	DRR	101507351	sorting nexin 2A-like
SNP_11241_A_31198154	NC_021161.1	Ca_Kabuli_Chr02	31198154	GG	CC	CC	DRR	101507351	sorting nexin 2A-like
SNP_11242_A_31200497	NC_021161.1	Ca_Kabuli_Chr02	31200497	CC	TT	TT	INTERGENIC		
SNP_11243_A_31203831	NC_021161.1	Ca_Kabuli_Chr02	31203831	AA	GG	GG	DRR	101507029	probable leucine-rich repeat receptor-like protein kinase IMK3
SNP_11244_A_31209227	NC_021161.1	Ca_Kabuli_Chr02	31209227	AA	GG	GG	URR	101507029	probable leucine-rich repeat receptor-like protein kinase IMK3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11245_A_31209312	NC_021161.1	Ca_Kabuli_Chr02	31209312	AA	CC	CC	URR	101507029	probable leucine-rich repeat receptor-like protein kinase IMK3
SNP_11246_A_31209362	NC_021161.1	Ca_Kabuli_Chr02	31209362	AA	GG	GG	URR	101507029	probable leucine-rich repeat receptor-like protein kinase IMK3
SNP_11247_A_31209894	NC_021161.1	Ca_Kabuli_Chr02	31209894	GG	TT	TT	INTERGENIC		
SNP_11248_A_31214331	NC_021161.1	Ca_Kabuli_Chr02	31214331	TT	CC	CC	DRR	101506699	PRA1 family protein B3
SNP_11249_A_31216249	NC_021161.1	Ca_Kabuli_Chr02	31216249	GG	AA	AA	URR	101506699	PRA1 family protein B3
SNP_11250_A_31216490	NC_021161.1	Ca_Kabuli_Chr02	31216490	AA	GG	GG	URR	101506699	PRA1 family protein B3
SNP_11251_A_31216524	NC_021161.1	Ca_Kabuli_Chr02	31216524	CC	TT	TT	URR	101506699	PRA1 family protein B3
SNP_11252_A_31216529	NC_021161.1	Ca_Kabuli_Chr02	31216529	CC	TT	TT	URR	101506699	PRA1 family protein B3
SNP_11253_A_31216556	NC_021161.1	Ca_Kabuli_Chr02	31216556	AA	GG	GG	URR	101506699	PRA1 family protein B3
SNP_11254_A_31216779	NC_021161.1	Ca_Kabuli_Chr02	31216779	GG	AA	AA	INTERGENIC		
SNP_11255_A_31216817	NC_021161.1	Ca_Kabuli_Chr02	31216817	GG	AA	AA	INTERGENIC		
SNP_11256_A_31216892	NC_021161.1	Ca_Kabuli_Chr02	31216892	AA	GG	GG	INTERGENIC		
SNP_11257_A_31216944	NC_021161.1	Ca_Kabuli_Chr02	31216944	TT	AA	AA	INTERGENIC		
SNP_11258_A_31218042	NC_021161.1	Ca_Kabuli_Chr02	31218042	TT	CC	CC	INTERGENIC		
SNP_11259_A_31225801	NC_021161.1	Ca_Kabuli_Chr02	31225801	TT	GG	GG	INTERGENIC		
SNP_11260_A_31227437	NC_021161.1	Ca_Kabuli_Chr02	31227437	CC	TT	TT	INTERGENIC		
SNP_11261_A_31228093	NC_021161.1	Ca_Kabuli_Chr02	31228093	CC	AA	AA	INTERGENIC		
SNP_11262_A_31228097	NC_021161.1	Ca_Kabuli_Chr02	31228097	AA	GG	GG	INTERGENIC		
SNP_11263_A_31229818	NC_021161.1	Ca_Kabuli_Chr02	31229818	TT	CC	CC	INTERGENIC		
SNP_11264_A_31232468	NC_021161.1	Ca_Kabuli_Chr02	31232468	AA	TT	TT	DRR	101506372	uncharacterized LOC101506372
SNP_11266_A_31232866	NC_021161.1	Ca_Kabuli_Chr02	31232866	CC	GG	GG	DRR	101506372	uncharacterized LOC101506372
SNP_11267_A_31233307	NC_021161.1	Ca_Kabuli_Chr02	31233307	AA	GG	GG	NON_SYNONYMOUS_CODING	101506372	uncharacterized LOC101506372

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11269_A_31234261	NC_021161.1	Ca_Kabuli_Chr02	31234261	CC	TT	TT	INTRON	101506372	uncharacterized LOC101506372
SNP_11270_A_31234391	NC_021161.1	Ca_Kabuli_Chr02	31234391	CC	TT	TT	INTRON	101506372	uncharacterized LOC101506372
SNP_11271_A_31234398	NC_021161.1	Ca_Kabuli_Chr02	31234398	TT	CC	CC	INTRON	101506372	uncharacterized LOC101506372
SNP_11272_A_31234460	NC_021161.1	Ca_Kabuli_Chr02	31234460	TT	CC	CC	INTRON	101506372	uncharacterized LOC101506372
SNP_11273_A_31235978	NC_021161.1	Ca_Kabuli_Chr02	31235978	GG	AA	AA	URR	101506372	uncharacterized LOC101506372
SNP_11274_A_31235982	NC_021161.1	Ca_Kabuli_Chr02	31235982	CC	TT	TT	URR	101506372	uncharacterized LOC101506372
SNP_11275_A_31235990	NC_021161.1	Ca_Kabuli_Chr02	31235990	AA	TT	TT	URR	101506372	uncharacterized LOC101506372
SNP_11276_A_31235994	NC_021161.1	Ca_Kabuli_Chr02	31235994	TT	AA	AA	URR	101506372	uncharacterized LOC101506372
SNP_11277_A_31235995	NC_021161.1	Ca_Kabuli_Chr02	31235995	GG	TT	TT	URR	101506372	uncharacterized LOC101506372
SNP_11278_A_31238308	NC_021161.1	Ca_Kabuli_Chr02	31238308	TT	CC	CC	INTERGENIC		
SNP_11279_A_31238320	NC_021161.1	Ca_Kabuli_Chr02	31238320	GG	TT	TT	INTERGENIC		
SNP_11280_A_31238625	NC_021161.1	Ca_Kabuli_Chr02	31238625	AA	GG	GG	INTERGENIC		
SNP_11281_A_31238689	NC_021161.1	Ca_Kabuli_Chr02	31238689	AA	GG	GG	INTERGENIC		
SNP_11282_A_31238743	NC_021161.1	Ca_Kabuli_Chr02	31238743	AA	GG	GG	INTERGENIC		
SNP_11283_A_31239806	NC_021161.1	Ca_Kabuli_Chr02	31239806	TT	CC	CC	INTERGENIC		
SNP_11284_A_31240109	NC_021161.1	Ca_Kabuli_Chr02	31240109	GG	AA	AA	INTERGENIC		
SNP_11286_A_31242790	NC_021161.1	Ca_Kabuli_Chr02	31242790	CC	TT	TT	DRR	101505618	uncharacterized LOC101505618
SNP_11287_A_31242791	NC_021161.1	Ca_Kabuli_Chr02	31242791	GG	AA	AA	DRR	101505618	uncharacterized LOC101505618
SNP_11288_A_31244050	NC_021161.1	Ca_Kabuli_Chr02	31244050	GG	TT	TT	INTERGENIC		
SNP_11289_A_31244272	NC_021161.1	Ca_Kabuli_Chr02	31244272	CC	TT	TT	INTERGENIC		
SNP_11290_A_31244333	NC_021161.1	Ca_Kabuli_Chr02	31244333	TT	AA	AA	INTERGENIC		
SNP_11292_A_31244578	NC_021161.1	Ca_Kabuli_Chr02	31244578	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11293_A_31246664	NC_021161.1	Ca_Kabuli_Chr02	31246664	CC	TT	TT	DRR	101505291	arogenate dehydrogenase 1, chloroplastic-like
SNP_11294_A_31246881	NC_021161.1	Ca_Kabuli_Chr02	31246881	CC	TT	TT	DRR	101505291	arogenate dehydrogenase 1, chloroplastic-like
SNP_11295_A_31251269	NC_021161.1	Ca_Kabuli_Chr02	31251269	CC	TT	TT	URR	101505291	arogenate dehydrogenase 1, chloroplastic-like
SNP_11296_A_31255751	NC_021161.1	Ca_Kabuli_Chr02	31255751	GG	TT	TT	URR	101500398	cation/H(+) antiporter 15-like
SNP_11297_A_31257610	NC_021161.1	Ca_Kabuli_Chr02	31257610	CC	TT	TT	INTRON	101500710	chromatin assembly factor 1 subunit A-B-like
SNP_11298_A_31260834	NC_021161.1	Ca_Kabuli_Chr02	31260834	TT	CC	CC	URR	101500710	chromatin assembly factor 1 subunit A-B-like
SNP_11299_A_31261133	NC_021161.1	Ca_Kabuli_Chr02	31261133	GG	AA	AA	URR	101500710	chromatin assembly factor 1 subunit A-B-like
SNP_11300_A_31261233	NC_021161.1	Ca_Kabuli_Chr02	31261233	AA	GG	GG	URR	101500710	chromatin assembly factor 1 subunit A-B-like
SNP_11301_A_31261304	NC_021161.1	Ca_Kabuli_Chr02	31261304	TT	CC	CC	URR	101500710	chromatin assembly factor 1 subunit A-B-like
SNP_11302_A_31263194	NC_021161.1	Ca_Kabuli_Chr02	31263194	CC	GG	GG	INTERGENIC		
SNP_11303_A_31266493	NC_021161.1	Ca_Kabuli_Chr02	31266493	GG	TT	TT	INTERGENIC		
SNP_11304_A_31270597	NC_021161.1	Ca_Kabuli_Chr02	31270597	GG	AA	AA	INTERGENIC		
SNP_11305_A_31275543	NC_021161.1	Ca_Kabuli_Chr02	31275543	CC	AA	AA	INTERGENIC		
SNP_11307_A_31278374	NC_021161.1	Ca_Kabuli_Chr02	31278374	GG	AA	AA	INTERGENIC		
SNP_11308_A_31279399	NC_021161.1	Ca_Kabuli_Chr02	31279399	CC	TT	TT	INTERGENIC		
SNP_11309_A_31286290	NC_021161.1	Ca_Kabuli_Chr02	31286290	AA	GG	GG	INTERGENIC		
SNP_11311_A_31287247	NC_021161.1	Ca_Kabuli_Chr02	31287247	AA	CC	CC	INTERGENIC		
SNP_11312_A_31287314	NC_021161.1	Ca_Kabuli_Chr02	31287314	GG	AA	AA	INTERGENIC		
SNP_11313_A_31289705	NC_021161.1	Ca_Kabuli_Chr02	31289705	CC	TT	TT	INTERGENIC		
SNP_11314_A_31290828	NC_021161.1	Ca_Kabuli_Chr02	31290828	AA	TT	TT	INTERGENIC		
SNP_11316_A_31295058	NC_021161.1	Ca_Kabuli_Chr02	31295058	TT	CC	CC	INTERGENIC		
SNP_11317_A_31295270	NC_021161.1	Ca_Kabuli_Chr02	31295270	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11318_A_31297774	NC_021161.1	Ca_Kabuli_Chr02	31297774	CC	GG	GG	INTERGENIC		
SNP_11319_A_31298325	NC_021161.1	Ca_Kabuli_Chr02	31298325	TT	AA	AA	INTERGENIC		
SNP_11321_A_31299723	NC_021161.1	Ca_Kabuli_Chr02	31299723	AA	GG	GG	DRR	101491097	protein EARLY RESPONSIVE TO DEHYDRATION 15-like
SNP_11322_A_31299976	NC_021161.1	Ca_Kabuli_Chr02	31299976	AA	GG	GG	DRR	101491097	protein EARLY RESPONSIVE TO DEHYDRATION 15-like
SNP_11324_A_31301167	NC_021161.1	Ca_Kabuli_Chr02	31301167	CC	TT	TT	URR	101491097	protein EARLY RESPONSIVE TO DEHYDRATION 15-like
SNP_11325_A_31302443	NC_021161.1	Ca_Kabuli_Chr02	31302443	TT	CC	CC	URR	101491097	protein EARLY RESPONSIVE TO DEHYDRATION 15-like
SNP_11326_A_31303395	NC_021161.1	Ca_Kabuli_Chr02	31303395	AA	CC	CC	DRR	101491731	staphylococcal-like nuclease CAN2
SNP_11327_A_31303433	NC_021161.1	Ca_Kabuli_Chr02	31303433	TT	AA	AA	DRR	101491731	staphylococcal-like nuclease CAN2
SNP_11328_A_31304693	NC_021161.1	Ca_Kabuli_Chr02	31304693	CC	TT	TT	URR	101491415	copper transport protein CCH
SNP_11329_A_31304857	NC_021161.1	Ca_Kabuli_Chr02	31304857	GG	TT	TT	URR	101491415	copper transport protein CCH
SNP_11330_A_31305297	NC_021161.1	Ca_Kabuli_Chr02	31305297	CC	TT	TT	INTERGENIC		
SNP_11331_A_31308921	NC_021161.1	Ca_Kabuli_Chr02	31308921	AA	GG	GG	URR	101491731	staphylococcal-like nuclease CAN2
SNP_11332_A_31313006	NC_021161.1	Ca_Kabuli_Chr02	31313006	AA	GG	GG	INTERGENIC		
SNP_11333_A_31316304	NC_021161.1	Ca_Kabuli_Chr02	31316304	GG	AA	AA	INTERGENIC		
SNP_11334_A_31316346	NC_021161.1	Ca_Kabuli_Chr02	31316346	AA	GG	GG	INTERGENIC		
SNP_11335_A_31316490	NC_021161.1	Ca_Kabuli_Chr02	31316490	GG	AA	AA	INTERGENIC		
SNP_11336_A_31316515	NC_021161.1	Ca_Kabuli_Chr02	31316515	CC	TT	TT	INTERGENIC		
SNP_11337_A_31316574	NC_021161.1	Ca_Kabuli_Chr02	31316574	TT	GG	GG	INTERGENIC		
SNP_11338_A_31316604	NC_021161.1	Ca_Kabuli_Chr02	31316604	TT	CC	CC	INTERGENIC		
SNP_11339_A_31316675	NC_021161.1	Ca_Kabuli_Chr02	31316675	AA	GG	GG	INTERGENIC		
SNP_11341_A_31317922	NC_021161.1	Ca_Kabuli_Chr02	31317922	CC	AA	AA	DRR	101492393	alpha-soluble NSF attachment protein 2-like
SNP_11342_A_31323059	NC_021161.1	Ca_Kabuli_Chr02	31323059	TT	CC	CC	DRR	101492724	putative sodium-coupled neutral amino acid transporter 10

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11343_A_31323311	NC_021161.1	Ca_Kabuli_Chr02	31323311	TT	CC	CC	DRR	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11344_A_31323317	NC_021161.1	Ca_Kabuli_Chr02	31323317	GG	AA	AA	DRR	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11345_A_31325472	NC_021161.1	Ca_Kabuli_Chr02	31325472	AA	TT	TT	INTRON	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11346_A_31325478	NC_021161.1	Ca_Kabuli_Chr02	31325478	TT	GG	GG	INTRON	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11347_A_31325481	NC_021161.1	Ca_Kabuli_Chr02	31325481	AA	GG	GG	INTRON	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11348_A_31325482	NC_021161.1	Ca_Kabuli_Chr02	31325482	CC	GG	GG	INTRON	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11349_A_31325955	NC_021161.1	Ca_Kabuli_Chr02	31325955	TT	CC	CC	SYNONYMOUS_CODING	101492724	putative sodium-coupled neutral amino acid transporter 10
SNP_11350_A_31331389	NC_021161.1	Ca_Kabuli_Chr02	31331389	TT	AA	AA	INTERGENIC		
SNP_11351_A_31332109	NC_021161.1	Ca_Kabuli_Chr02	31332109	CC	GG	GG	INTERGENIC		
SNP_11352_A_31334617	NC_021161.1	Ca_Kabuli_Chr02	31334617	CC	TT	TT	INTERGENIC		
SNP_11353_A_31335436	NC_021161.1	Ca_Kabuli_Chr02	31335436	GG	AA	AA	INTERGENIC		
SNP_11354_A_31335919	NC_021161.1	Ca_Kabuli_Chr02	31335919	CC	TT	TT	INTERGENIC		
SNP_11355_A_31335990	NC_021161.1	Ca_Kabuli_Chr02	31335990	GG	AA	AA	INTERGENIC		
SNP_11356_A_31344733	NC_021161.1	Ca_Kabuli_Chr02	31344733	AA	GG	GG	INTERGENIC		
SNP_11357_A_31345606	NC_021161.1	Ca_Kabuli_Chr02	31345606	TT	AA	AA	INTERGENIC		
SNP_11358_A_31345607	NC_021161.1	Ca_Kabuli_Chr02	31345607	AA	TT	TT	INTERGENIC		
SNP_11359_A_31346305	NC_021161.1	Ca_Kabuli_Chr02	31346305	TT	GG	GG	DRR	101493380	uncharacterized protein At2g40430-like
SNP_11360_A_31346653	NC_021161.1	Ca_Kabuli_Chr02	31346653	TT	CC	CC	DRR	101493380	uncharacterized protein At2g40430-like
SNP_11361_A_31347009	NC_021161.1	Ca_Kabuli_Chr02	31347009	CC	TT	TT	DRR	101493380	uncharacterized protein At2g40430-like
SNP_11362_A_31350563	NC_021161.1	Ca_Kabuli_Chr02	31350563	CC	TT	TT	INTERGENIC		
SNP_11363_A_31352289	NC_021161.1	Ca_Kabuli_Chr02	31352289	TT	CC	CC	URR	101493380	uncharacterized protein At2g40430-like
SNP_11364_A_31352301	NC_021161.1	Ca_Kabuli_Chr02	31352301	GG	AA	AA	URR	101493380	uncharacterized protein At2g40430-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11365_A_31352312	NC_021161.1	Ca_Kabuli_Chr02	31352312	AA	GG	GG	URR	101493380	uncharacterized protein A12g40430-like
SNP_11367_A_31354165	NC_021161.1	Ca_Kabuli_Chr02	31354165	TT	CC	CC	INTERGENIC		
SNP_11368_A_31354290	NC_021161.1	Ca_Kabuli_Chr02	31354290	AA	TT	TT	INTERGENIC		
SNP_11369_A_31354760	NC_021161.1	Ca_Kabuli_Chr02	31354760	TT	GG	GG	DRR	101501338	uncharacterized LOC101501338
SNP_11370_A_31354773	NC_021161.1	Ca_Kabuli_Chr02	31354773	CC	TT	TT	DRR	101501338	uncharacterized LOC101501338
SNP_11372_A_31356773	NC_021161.1	Ca_Kabuli_Chr02	31356773	CC	TT	TT	START_GAINED	101501338	uncharacterized LOC101501338
SNP_11373_A_31361746	NC_021161.1	Ca_Kabuli_Chr02	31361746	GG	CC	CC	INTERGENIC		
SNP_11374_A_31361866	NC_021161.1	Ca_Kabuli_Chr02	31361866	AA	TT	TT	INTERGENIC		
SNP_11375_A_31362129	NC_021161.1	Ca_Kabuli_Chr02	31362129	TT	AA	AA	INTERGENIC		
SNP_11376_A_31362163	NC_021161.1	Ca_Kabuli_Chr02	31362163	CC	AA	AA	INTERGENIC		
SNP_11377_A_31364291	NC_021161.1	Ca_Kabuli_Chr02	31364291	AA	GG	GG	INTERGENIC		
SNP_11378_A_31364810	NC_021161.1	Ca_Kabuli_Chr02	31364810	TT	GG	GG	INTERGENIC		
SNP_11379_A_31364822	NC_021161.1	Ca_Kabuli_Chr02	31364822	CC	GG	GG	INTERGENIC		
SNP_11380_A_31365150	NC_021161.1	Ca_Kabuli_Chr02	31365150	TT	AA	AA	INTERGENIC		
SNP_11381_A_31365286	NC_021161.1	Ca_Kabuli_Chr02	31365286	GG	TT	TT	INTERGENIC		
SNP_11383_A_31365635	NC_021161.1	Ca_Kabuli_Chr02	31365635	AA	TT	TT	INTERGENIC		
SNP_11386_A_31368894	NC_021161.1	Ca_Kabuli_Chr02	31368894	TT	AA	AA	DRR	101493912	transcription factor ICE1
SNP_11387_A_31372714	NC_021161.1	Ca_Kabuli_Chr02	31372714	AA	GG	GG	URR	101493912	transcription factor ICE1
SNP_11388_A_31372718	NC_021161.1	Ca_Kabuli_Chr02	31372718	GG	TT	TT	URR	101493912	transcription factor ICE1
SNP_11389_A_31373054	NC_021161.1	Ca_Kabuli_Chr02	31373054	AA	TT	TT	URR	101493912	transcription factor ICE1
SNP_11390_A_31374261	NC_021161.1	Ca_Kabuli_Chr02	31374261	GG	TT	TT	URR	101493912	transcription factor ICE1
SNP_11391_A_31374272	NC_021161.1	Ca_Kabuli_Chr02	31374272	AA	CC	CC	URR	101493912	transcription factor ICE1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11392_A_31374593	NC_021161.1	Ca_Kabuli_Chr02	31374593	CC	TT	TT	URR	101493912	transcription factor ICE1
SNP_11393_A_31374774	NC_021161.1	Ca_Kabuli_Chr02	31374774	TT	CC	CC	INTERGENIC		
SNP_11394_A_31374793	NC_021161.1	Ca_Kabuli_Chr02	31374793	AA	GG	GG	INTERGENIC		
SNP_11395_A_31374818	NC_021161.1	Ca_Kabuli_Chr02	31374818	GG	CC	CC	INTERGENIC		
SNP_11396_A_31375367	NC_021161.1	Ca_Kabuli_Chr02	31375367	CC	TT	TT	INTERGENIC		
SNP_11397_A_31375478	NC_021161.1	Ca_Kabuli_Chr02	31375478	GG	AA	AA	INTERGENIC		
SNP_11398_A_31375513	NC_021161.1	Ca_Kabuli_Chr02	31375513	TT	CC	CC	INTERGENIC		
SNP_11399_A_31376207	NC_021161.1	Ca_Kabuli_Chr02	31376207	GG	AA	AA	DRR	101494235	uncharacterized LOC101494235
SNP_11400_A_31376209	NC_021161.1	Ca_Kabuli_Chr02	31376209	GG	AA	AA	DRR	101494235	uncharacterized LOC101494235
SNP_11401_A_31379033	NC_021161.1	Ca_Kabuli_Chr02	31379033	AA	GG	GG	URR	101494235	uncharacterized LOC101494235
SNP_11402_A_31381916	NC_021161.1	Ca_Kabuli_Chr02	31381916	AA	TT	TT	URR	101494860	uncharacterized LOC101494860
SNP_11403_A_31382278	NC_021161.1	Ca_Kabuli_Chr02	31382278	CC	TT	TT	URR	101494860	uncharacterized LOC101494860
SNP_11404_A_31385930	NC_021161.1	Ca_Kabuli_Chr02	31385930	GG	CC	CC	DRR	101494541	peroxidase P7
SNP_11405_A_31385939	NC_021161.1	Ca_Kabuli_Chr02	31385939	AA	GG	GG	DRR	101494541	peroxidase P7
SNP_11406_A_31386778	NC_021161.1	Ca_Kabuli_Chr02	31386778	AA	GG	GG	INTERGENIC		
SNP_11408_A_31386822	NC_021161.1	Ca_Kabuli_Chr02	31386822	TT	CC	CC	INTERGENIC		
SNP_11409_A_31387468	NC_021161.1	Ca_Kabuli_Chr02	31387468	TT	CC	CC	INTERGENIC		
SNP_11411_A_31388223	NC_021161.1	Ca_Kabuli_Chr02	31388223	AA	TT	TT	URR	101494541	peroxidase P7
SNP_11413_A_31388284	NC_021161.1	Ca_Kabuli_Chr02	31388284	CC	TT	TT	URR	101494541	peroxidase P7
SNP_11414_A_31388290	NC_021161.1	Ca_Kabuli_Chr02	31388290	AA	TT	TT	URR	101494541	peroxidase P7
SNP_11415_A_31388336	NC_021161.1	Ca_Kabuli_Chr02	31388336	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11416_A_31388342	NC_021161.1	Ca_Kabuli_Chr02	31388342	CC	TT	TT	URR	101494541	peroxidase P7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11418_A_31388375	NC_021161.1	Ca_Kabuli_Chr02	31388375	AA	GG	GG	URR	101494541	peroxidase P7
SNP_11419_A_31388388	NC_021161.1	Ca_Kabuli_Chr02	31388388	AA	GG	GG	URR	101494541	peroxidase P7
SNP_11420_A_31388417	NC_021161.1	Ca_Kabuli_Chr02	31388417	CC	TT	TT	URR	101494541	peroxidase P7
SNP_11421_A_31388448	NC_021161.1	Ca_Kabuli_Chr02	31388448	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11422_A_31388452	NC_021161.1	Ca_Kabuli_Chr02	31388452	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11423_A_31388454	NC_021161.1	Ca_Kabuli_Chr02	31388454	AA	GG	GG	URR	101494541	peroxidase P7
SNP_11424_A_31388461	NC_021161.1	Ca_Kabuli_Chr02	31388461	CC	AA	AA	URR	101494541	peroxidase P7
SNP_11425_A_31388474	NC_021161.1	Ca_Kabuli_Chr02	31388474	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11426_A_31388477	NC_021161.1	Ca_Kabuli_Chr02	31388477	AA	GG	GG	URR	101494541	peroxidase P7
SNP_11427_A_31388519	NC_021161.1	Ca_Kabuli_Chr02	31388519	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11428_A_31388545	NC_021161.1	Ca_Kabuli_Chr02	31388545	GG	CC	CC	URR	101494541	peroxidase P7
SNP_11429_A_31388571	NC_021161.1	Ca_Kabuli_Chr02	31388571	CC	TT	TT	URR	101494541	peroxidase P7
SNP_11430_A_31389028	NC_021161.1	Ca_Kabuli_Chr02	31389028	CC	TT	TT	URR	101494541	peroxidase P7
SNP_11431_A_31389564	NC_021161.1	Ca_Kabuli_Chr02	31389564	GG	AA	AA	URR	101494541	peroxidase P7
SNP_11432_A_31389742	NC_021161.1	Ca_Kabuli_Chr02	31389742	TT	CC	CC	URR	101494541	peroxidase P7
SNP_11433_A_31390793	NC_021161.1	Ca_Kabuli_Chr02	31390793	AA	GG	GG	DRR	101501658	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840
SNP_11434_A_31391003	NC_021161.1	Ca_Kabuli_Chr02	31391003	AA	CC	CC	INTERGENIC		
SNP_11435_A_31406400	NC_021161.1	Ca_Kabuli_Chr02	31406400	AA	GG	GG	INTERGENIC		
SNP_11436_A_31406424	NC_021161.1	Ca_Kabuli_Chr02	31406424	TT	CC	CC	INTERGENIC		
SNP_11438_A_31407187	NC_021161.1	Ca_Kabuli_Chr02	31407187	AA	GG	GG	INTERGENIC		
SNP_11439_A_31408268	NC_021161.1	Ca_Kabuli_Chr02	31408268	TT	CC	CC	INTERGENIC		
SNP_11440_A_31410897	NC_021161.1	Ca_Kabuli_Chr02	31410897	CC	AA	AA	DRR	101495510	LOB domain-containing protein 15-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11442_A_31419674	NC_021161.1	Ca_Kabuli_Chr02	31419674	GG	AA	AA	INTERGENIC		
SNP_11443_A_31419697	NC_021161.1	Ca_Kabuli_Chr02	31419697	CC	TT	TT	INTERGENIC		
SNP_11444_A_31419702	NC_021161.1	Ca_Kabuli_Chr02	31419702	TT	CC	CC	INTERGENIC		
SNP_11445_A_31419723	NC_021161.1	Ca_Kabuli_Chr02	31419723	TT	CC	CC	INTERGENIC		
SNP_11446_A_31419744	NC_021161.1	Ca_Kabuli_Chr02	31419744	TT	GG	GG	INTERGENIC		
SNP_11447_A_31420642	NC_021161.1	Ca_Kabuli_Chr02	31420642	GG	CC	CC	DRR	101495839	Unknown function
SNP_11448_A_31420951	NC_021161.1	Ca_Kabuli_Chr02	31420951	TT	GG	GG	DRR	101495839	Unknown function
SNP_11449_A_31427154	NC_021161.1	Ca_Kabuli_Chr02	31427154	AA	GG	GG	INTRON	101496164	WEB family protein At2g40480-like
SNP_11450_A_31427187	NC_021161.1	Ca_Kabuli_Chr02	31427187	TT	CC	CC	INTRON	101496164	WEB family protein At2g40480-like
SNP_11451_A_31427670	NC_021161.1	Ca_Kabuli_Chr02	31427670	GG	TT	TT	SYNONYMOUS_CODING	101496164	WEB family protein At2g40480-like
SNP_11452_A_31431416	NC_021161.1	Ca_Kabuli_Chr02	31431416	AA	GG	GG	INTERGENIC		
SNP_11453_A_31438288	NC_021161.1	Ca_Kabuli_Chr02	31438288	TT	GG	GG	INTRON	101502301	high mobility group B protein 7
SNP_11454_A_31438291	NC_021161.1	Ca_Kabuli_Chr02	31438291	AA	GG	GG	INTRON	101502301	high mobility group B protein 7
SNP_11456_A_31441483	NC_021161.1	Ca_Kabuli_Chr02	31441483	GG	TT	TT	INTRON	101502301	high mobility group B protein 7
SNP_11457_A_31441846	NC_021161.1	Ca_Kabuli_Chr02	31441846	GG	AA	AA	INTRON	101502301	high mobility group B protein 7
SNP_11458_A_31442726	NC_021161.1	Ca_Kabuli_Chr02	31442726	GG	AA	AA	INTRON	101502301	high mobility group B protein 7
SNP_11459_A_31447453	NC_021161.1	Ca_Kabuli_Chr02	31447453	TT	CC	CC	NON_SYNONYMOUS_CODING	101502301	high mobility group B protein 7
SNP_11460_A_31448305	NC_021161.1	Ca_Kabuli_Chr02	31448305	TT	CC	CC	URR	101502301	high mobility group B protein 7
SNP_11462_A_31450217	NC_021161.1	Ca_Kabuli_Chr02	31450217	AA	TT	TT	INTERGENIC		
SNP_11463_A_31450239	NC_021161.1	Ca_Kabuli_Chr02	31450239	TT	CC	CC	INTERGENIC		
SNP_11464_A_31450347	NC_021161.1	Ca_Kabuli_Chr02	31450347	TT	CC	CC	INTERGENIC		
SNP_11465_A_31450508	NC_021161.1	Ca_Kabuli_Chr02	31450508	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_11467_A_31450729	NC_021161.1	Ca_Kabuli_Chr02	31450729	AA	GG	GG	INTERGENIC			
SNP_11468_A_31450829	NC_021161.1	Ca_Kabuli_Chr02	31450829	GG	AA	AA	INTERGENIC			
SNP_11469_A_31451618	NC_021161.1	Ca_Kabuli_Chr02	31451618	AA	TT	TT	INTERGENIC			
SNP_11470_A_31451925	NC_021161.1	Ca_Kabuli_Chr02	31451925	TT	CC	CC	INTERGENIC			
SNP_11471_A_31451963	NC_021161.1	Ca_Kabuli_Chr02	31451963	TT	CC	CC	INTERGENIC			
SNP_11472_A_31451973	NC_021161.1	Ca_Kabuli_Chr02	31451973	TT	CC	CC	INTERGENIC			
SNP_11473_A_31454302	NC_021161.1	Ca_Kabuli_Chr02	31454302	AA	GG	GG	INTERGENIC			
SNP_11474_A_31455832	NC_021161.1	Ca_Kabuli_Chr02	31455832	GG	AA	AA	INTERGENIC			
SNP_11475_A_31456138	NC_021161.1	Ca_Kabuli_Chr02	31456138	CC	TT	TT	INTERGENIC			
SNP_11477_A_31459304	NC_021161.1	Ca_Kabuli_Chr02	31459304	TT	CC	CC	INTERGENIC			
SNP_11478_A_31460398	NC_021161.1	Ca_Kabuli_Chr02	31460398	AA	GG	GG	INTERGENIC			
SNP_11479_A_31460420	NC_021161.1	Ca_Kabuli_Chr02	31460420	CC	TT	TT	INTERGENIC			
SNP_11480_A_31468851	NC_021161.1	Ca_Kabuli_Chr02	31468851	TT	CC	CC	INTERGENIC			
SNP_11481_A_31469969	NC_021161.1	Ca_Kabuli_Chr02	31469969	AA	GG	GG	INTERGENIC			
SNP_11482_A_31473995	NC_021161.1	Ca_Kabuli_Chr02	31473995	CC	TT	TT	INTERGENIC			
SNP_11483_A_31482920	NC_021161.1	Ca_Kabuli_Chr02	31482920	CC	GG	GG	INTERGENIC			
SNP_11484_A_31482964	NC_021161.1	Ca_Kabuli_Chr02	31482964	AA	GG	GG	INTERGENIC			
SNP_11485_A_31483239	NC_021161.1	Ca_Kabuli_Chr02	31483239	AA	TT	TT	INTERGENIC			
SNP_11486_A_31483240	NC_021161.1	Ca_Kabuli_Chr02	31483240	AA	CC	CC	INTERGENIC			
SNP_11487_A_31483242	NC_021161.1	Ca_Kabuli_Chr02	31483242	AA	GG	GG	INTERGENIC			
SNP_11488_A_31485877	NC_021161.1	Ca_Kabuli_Chr02	31485877	AA	GG	GG	INTERGENIC			
SNP_11489_A_31494822	NC_021161.1	Ca_Kabuli_Chr02	31494822	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_11490_A_31498842	NC_021161.1	Ca_Kabuli_Chr02	31498842	TT	CC	CC	INTERGENIC			
SNP_11491_A_31505495	NC_021161.1	Ca_Kabuli_Chr02	31505495	GG	AA	AA	INTERGENIC			
SNP_11492_A_31513480	NC_021161.1	Ca_Kabuli_Chr02	31513480	AA	CC	CC	INTERGENIC			
SNP_11493_A_31534100	NC_021161.1	Ca_Kabuli_Chr02	31534100	CC	TT	TT	INTERGENIC			
SNP_11495_A_31534502	NC_021161.1	Ca_Kabuli_Chr02	31534502	AA	TT	TT	INTERGENIC			
SNP_11496_A_31534623	NC_021161.1	Ca_Kabuli_Chr02	31534623	AA	TT	TT	INTERGENIC			
SNP_11497_A_31534642	NC_021161.1	Ca_Kabuli_Chr02	31534642	TT	AA	AA	INTERGENIC			
SNP_11498_A_31534720	NC_021161.1	Ca_Kabuli_Chr02	31534720	TT	CC	CC	INTERGENIC			
SNP_11499_A_31534820	NC_021161.1	Ca_Kabuli_Chr02	31534820	AA	CC	CC	INTERGENIC			
SNP_11501_A_31539910	NC_021161.1	Ca_Kabuli_Chr02	31539910	AA	TT	TT	INTERGENIC			
SNP_11502_A_31544611	NC_021161.1	Ca_Kabuli_Chr02	31544611	TT	CC	CC	INTERGENIC			
SNP_11503_A_31544617	NC_021161.1	Ca_Kabuli_Chr02	31544617	CC	TT	TT	INTERGENIC			
SNP_11504_A_31544618	NC_021161.1	Ca_Kabuli_Chr02	31544618	AA	GG	GG	INTERGENIC			
SNP_11505_A_31544635	NC_021161.1	Ca_Kabuli_Chr02	31544635	TT	CC	CC	INTERGENIC			
SNP_11506_A_31544649	NC_021161.1	Ca_Kabuli_Chr02	31544649	CC	TT	TT	INTERGENIC			
SNP_11507_A_31544657	NC_021161.1	Ca_Kabuli_Chr02	31544657	TT	CC	CC	INTERGENIC			
SNP_11508_A_31545290	NC_021161.1	Ca_Kabuli_Chr02	31545290	GG	AA	AA	INTERGENIC			
SNP_11510_A_31550427	NC_021161.1	Ca_Kabuli_Chr02	31550427	AA	TT	TT	INTERGENIC			
SNP_11511_A_31550569	NC_021161.1	Ca_Kabuli_Chr02	31550569	AA	GG	GG	INTERGENIC			
SNP_11512_A_31551866	NC_021161.1	Ca_Kabuli_Chr02	31551866	GG	AA	AA	INTERGENIC			
SNP_11513_A_31552279	NC_021161.1	Ca_Kabuli_Chr02	31552279	AA	GG	GG	INTERGENIC			
SNP_11514_A_31552828	NC_021161.1	Ca_Kabuli_Chr02	31552828	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11515_A_31553094	NC_021161.1	Ca_Kabuli_Chr02	31553094	GG	AA	AA	INTERGENIC		
SNP_11516_A_31553140	NC_021161.1	Ca_Kabuli_Chr02	31553140	CC	TT	TT	INTERGENIC		
SNP_11517_A_31559266	NC_021161.1	Ca_Kabuli_Chr02	31559266	TT	CC	CC	INTERGENIC		
SNP_11518_A_31559410	NC_021161.1	Ca_Kabuli_Chr02	31559410	AA	CC	CC	INTERGENIC		
SNP_11519_A_31559786	NC_021161.1	Ca_Kabuli_Chr02	31559786	CC	TT	TT	INTERGENIC		
SNP_11520_A_31560496	NC_021161.1	Ca_Kabuli_Chr02	31560496	AA	GG	GG	INTERGENIC		
SNP_11521_A_31561983	NC_021161.1	Ca_Kabuli_Chr02	31561983	GG	AA	AA	INTERGENIC		
SNP_11523_A_31564192	NC_021161.1	Ca_Kabuli_Chr02	31564192	GG	AA	AA	INTERGENIC		
SNP_11524_A_31567730	NC_021161.1	Ca_Kabuli_Chr02	31567730	AA	CC	CC	INTERGENIC		
SNP_11525_A_31575088	NC_021161.1	Ca_Kabuli_Chr02	31575088	GG	TT	TT	INTERGENIC		
SNP_11526_A_31581314	NC_021161.1	Ca_Kabuli_Chr02	31581314	AA	TT	TT	DRR	101503262	indole-3-glycerol phosphate synthase, chloroplastic-like
SNP_11527_A_31581534	NC_021161.1	Ca_Kabuli_Chr02	31581534	TT	GG	GG	DRR	101503262	indole-3-glycerol phosphate synthase, chloroplastic-like
SNP_11528_A_31588364	NC_021161.1	Ca_Kabuli_Chr02	31588364	AA	GG	GG	URR	101503262	indole-3-glycerol phosphate synthase, chloroplastic-like
SNP_11529_A_31595948	NC_021161.1	Ca_Kabuli_Chr02	31595948	AA	GG	GG	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11530_A_31595949	NC_021161.1	Ca_Kabuli_Chr02	31595949	CC	TT	TT	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11531_A_31595968	NC_021161.1	Ca_Kabuli_Chr02	31595968	TT	CC	CC	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11532_A_31596139	NC_021161.1	Ca_Kabuli_Chr02	31596139	AA	CC	CC	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11533_A_31596461	NC_021161.1	Ca_Kabuli_Chr02	31596461	GG	AA	AA	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11534_A_31596462	NC_021161.1	Ca_Kabuli_Chr02	31596462	AA	GG	GG	URR	101503804	protein transport protein Sec61 subunit gamma
SNP_11535_A_31599784	NC_021161.1	Ca_Kabuli_Chr02	31599784	AA	GG	GG	INTERGENIC		
SNP_11536_A_31605222	NC_021161.1	Ca_Kabuli_Chr02	31605222	GG	TT	TT	INTERGENIC		
SNP_11537_A_31605351	NC_021161.1	Ca_Kabuli_Chr02	31605351	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11538_A_31605412	NC_021161.1	Ca_Kabuli_Chr02	31605412	CC	TT	TT	INTERGENIC		
SNP_11539_A_31605421	NC_021161.1	Ca_Kabuli_Chr02	31605421	AA	GG	GG	INTERGENIC		
SNP_11540_A_31605422	NC_021161.1	Ca_Kabuli_Chr02	31605422	GG	AA	AA	INTERGENIC		
SNP_11541_A_31605426	NC_021161.1	Ca_Kabuli_Chr02	31605426	TT	GG	GG	INTERGENIC		
SNP_11542_A_31605431	NC_021161.1	Ca_Kabuli_Chr02	31605431	TT	CC	CC	INTERGENIC		
SNP_11543_A_31605458	NC_021161.1	Ca_Kabuli_Chr02	31605458	TT	CC	CC	INTERGENIC		
SNP_11544_A_31605479	NC_021161.1	Ca_Kabuli_Chr02	31605479	AA	GG	GG	INTERGENIC		
SNP_11545_A_31605499	NC_021161.1	Ca_Kabuli_Chr02	31605499	AA	CC	CC	INTERGENIC		
SNP_11546_A_31605511	NC_021161.1	Ca_Kabuli_Chr02	31605511	AA	GG	GG	INTERGENIC		
SNP_11547_A_31605534	NC_021161.1	Ca_Kabuli_Chr02	31605534	CC	GG	GG	INTERGENIC		
SNP_11548_A_31605568	NC_021161.1	Ca_Kabuli_Chr02	31605568	CC	AA	AA	INTERGENIC		
SNP_11549_A_31605659	NC_021161.1	Ca_Kabuli_Chr02	31605659	TT	CC	CC	INTERGENIC		
SNP_11550_A_31615618	NC_021161.1	Ca_Kabuli_Chr02	31615618	AA	GG	GG	INTERGENIC		
SNP_11551_A_31626868	NC_021161.1	Ca_Kabuli_Chr02	31626868	CC	TT	TT	INTERGENIC		
SNP_11552_A_31631647	NC_021161.1	Ca_Kabuli_Chr02	31631647	CC	TT	TT	INTERGENIC		
SNP_11553_A_31631852	NC_021161.1	Ca_Kabuli_Chr02	31631852	CC	TT	TT	INTERGENIC		
SNP_11554_A_31633564	NC_021161.1	Ca_Kabuli_Chr02	31633564	TT	AA	AA	INTERGENIC		
SNP_11555_A_31633593	NC_021161.1	Ca_Kabuli_Chr02	31633593	AA	GG	GG	INTERGENIC		
SNP_11556_A_31635612	NC_021161.1	Ca_Kabuli_Chr02	31635612	AA	GG	GG	INTRON	101490451	glycine-rich protein DOT1-like
SNP_11557_A_31635630	NC_021161.1	Ca_Kabuli_Chr02	31635630	TT	CC	CC	INTRON	101490451	glycine-rich protein DOT1-like
SNP_11558_A_31636072	NC_021161.1	Ca_Kabuli_Chr02	31636072	GG	TT	TT	INTRON	101490451	glycine-rich protein DOT1-like
SNP_11559_A_31636083	NC_021161.1	Ca_Kabuli_Chr02	31636083	CC	GG	GG	INTRON	101490451	glycine-rich protein DOT1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11560_A_31636765	NC_021161.1	Ca_Kabuli_Chr02	31636765	GG	AA	AA	URR	101490451	glycine-rich protein DOT1-like
SNP_11561_A_31642932	NC_021161.1	Ca_Kabuli_Chr02	31642932	GG	AA	AA	INTRON	101490769	Unknown function
SNP_11564_A_31672573	NC_021161.1	Ca_Kabuli_Chr02	31672573	GG	AA	AA	INTRON	101491098	abscisic acid and environmental stress-inducible protein-like
SNP_11565_A_31673833	NC_021161.1	Ca_Kabuli_Chr02	31673833	TT	AA	AA	INTRON	101491098	abscisic acid and environmental stress-inducible protein-like
SNP_11567_A_31678858	NC_021161.1	Ca_Kabuli_Chr02	31678858	GG	AA	AA	INTERGENIC		
SNP_11568_A_31678865	NC_021161.1	Ca_Kabuli_Chr02	31678865	AA	GG	GG	INTERGENIC		
SNP_11569_A_31683342	NC_021161.1	Ca_Kabuli_Chr02	31683342	AA	GG	GG	INTERGENIC		
SNP_11570_A_31683376	NC_021161.1	Ca_Kabuli_Chr02	31683376	GG	CC	CC	INTERGENIC		
SNP_11571_A_31683781	NC_021161.1	Ca_Kabuli_Chr02	31683781	CC	TT	TT	INTERGENIC		
SNP_11572_A_31686031	NC_021161.1	Ca_Kabuli_Chr02	31686031	AA	GG	GG	INTERGENIC		
SNP_11573_A_31688095	NC_021161.1	Ca_Kabuli_Chr02	31688095	TT	CC	CC	INTERGENIC		
SNP_11574_A_31688100	NC_021161.1	Ca_Kabuli_Chr02	31688100	TT	CC	CC	INTERGENIC		
SNP_11575_A_31688377	NC_021161.1	Ca_Kabuli_Chr02	31688377	GG	AA	AA	INTERGENIC		
SNP_11576_A_31688526	NC_021161.1	Ca_Kabuli_Chr02	31688526	CC	AA	AA	INTERGENIC		
SNP_11577_A_31693575	NC_021161.1	Ca_Kabuli_Chr02	31693575	GG	AA	AA	INTERGENIC		
SNP_11578_A_31694657	NC_021161.1	Ca_Kabuli_Chr02	31694657	AA	GG	GG	INTERGENIC		
SNP_11579_A_31694708	NC_021161.1	Ca_Kabuli_Chr02	31694708	GG	AA	AA	INTERGENIC		
SNP_11581_A_31696976	NC_021161.1	Ca_Kabuli_Chr02	31696976	AA	CC	CC	INTERGENIC		
SNP_11583_A_31698846	NC_021161.1	Ca_Kabuli_Chr02	31698846	TT	CC	CC	INTERGENIC		
SNP_11584_A_31698902	NC_021161.1	Ca_Kabuli_Chr02	31698902	CC	TT	TT	INTERGENIC		
SNP_11585_A_31699256	NC_021161.1	Ca_Kabuli_Chr02	31699256	AA	CC	CC	INTERGENIC		
SNP_11586_A_31702166	NC_021161.1	Ca_Kabuli_Chr02	31702166	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11587_A_31713131	NC_021161.1	Ca_Kabuli_Chr02	31713131	TT	AA	AA	DRR	101504439	Unknown function
SNP_11589_A_31713692	NC_021161.1	Ca_Kabuli_Chr02	31713692	GG	AA	AA	NON_SYNONYMOUS_CODING	101504439	Unknown function
SNP_11590_A_31713706	NC_021161.1	Ca_Kabuli_Chr02	31713706	CC	TT	TT	URR	101504439	Unknown function
SNP_11591_A_31713743	NC_021161.1	Ca_Kabuli_Chr02	31713743	GG	AA	AA	URR	101504439	Unknown function
SNP_11592_A_31714007	NC_021161.1	Ca_Kabuli_Chr02	31714007	GG	AA	AA	URR	101504439	Unknown function
SNP_11593_A_31720020	NC_021161.1	Ca_Kabuli_Chr02	31720020	TT	GG	GG	INTERGENIC		
SNP_11594_A_31720039	NC_021161.1	Ca_Kabuli_Chr02	31720039	TT	CC	CC	INTERGENIC		
SNP_11595_A_31720075	NC_021161.1	Ca_Kabuli_Chr02	31720075	AA	GG	GG	INTERGENIC		
SNP_11596_A_31720442	NC_021161.1	Ca_Kabuli_Chr02	31720442	TT	CC	CC	INTERGENIC		
SNP_11597_A_31725727	NC_021161.1	Ca_Kabuli_Chr02	31725727	TT	AA	AA	DRR	101504755	glycine-rich cell wall structural protein-like
SNP_11598_A_31725748	NC_021161.1	Ca_Kabuli_Chr02	31725748	GG	CC	CC	DRR	101504755	glycine-rich cell wall structural protein-like
SNP_11599_A_31726844	NC_021161.1	Ca_Kabuli_Chr02	31726844	TT	GG	GG	INTRON	101504755	glycine-rich cell wall structural protein-like
SNP_11600_A_31726889	NC_021161.1	Ca_Kabuli_Chr02	31726889	AA	GG	GG	INTRON	101504755	glycine-rich cell wall structural protein-like
SNP_11601_A_31726946	NC_021161.1	Ca_Kabuli_Chr02	31726946	CC	TT	TT	INTRON	101504755	glycine-rich cell wall structural protein-like
SNP_11602_A_31726962	NC_021161.1	Ca_Kabuli_Chr02	31726962	CC	GG	GG	INTRON	101504755	glycine-rich cell wall structural protein-like
SNP_11603_A_31728089	NC_021161.1	Ca_Kabuli_Chr02	31728089	GG	CC	CC	URR	101504755	glycine-rich cell wall structural protein-like
SNP_11604_A_31728189	NC_021161.1	Ca_Kabuli_Chr02	31728189	CC	AA	AA	URR	101504755	glycine-rich cell wall structural protein-like
SNP_11605_A_31730684	NC_021161.1	Ca_Kabuli_Chr02	31730684	AA	CC	CC	INTERGENIC		
SNP_11606_A_31730709	NC_021161.1	Ca_Kabuli_Chr02	31730709	GG	AA	AA	INTERGENIC		
SNP_11607_A_31730713	NC_021161.1	Ca_Kabuli_Chr02	31730713	AA	GG	GG	INTERGENIC		
SNP_11608_A_31730722	NC_021161.1	Ca_Kabuli_Chr02	31730722	AA	CC	CC	INTERGENIC		
SNP_11609_A_31731141	NC_021161.1	Ca_Kabuli_Chr02	31731141	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_11610_A_31731156	NC_021161.1	Ca_Kabuli_Chr02	31731156	GG	TT	TT	INTERGENIC			
SNP_11611_A_31731190	NC_021161.1	Ca_Kabuli_Chr02	31731190	GG	AA	AA	INTERGENIC			
SNP_11612_A_31731220	NC_021161.1	Ca_Kabuli_Chr02	31731220	GG	TT	TT	INTERGENIC			
SNP_11613_A_31731765	NC_021161.1	Ca_Kabuli_Chr02	31731765	GG	AA	AA	INTERGENIC			
SNP_11614_A_31731772	NC_021161.1	Ca_Kabuli_Chr02	31731772	TT	CC	CC	INTERGENIC			
SNP_11615_A_31731975	NC_021161.1	Ca_Kabuli_Chr02	31731975	CC	AA	AA	INTERGENIC			
SNP_11616_A_31732016	NC_021161.1	Ca_Kabuli_Chr02	31732016	CC	TT	TT	INTERGENIC			
SNP_11617_A_31732770	NC_021161.1	Ca_Kabuli_Chr02	31732770	CC	GG	GG	INTERGENIC			
SNP_11618_A_31735265	NC_021161.1	Ca_Kabuli_Chr02	31735265	TT	CC	CC	INTERGENIC			
SNP_11619_A_31735266	NC_021161.1	Ca_Kabuli_Chr02	31735266	GG	AA	AA	INTERGENIC			
SNP_11620_A_31735877	NC_021161.1	Ca_Kabuli_Chr02	31735877	CC	TT	TT	INTERGENIC			
SNP_11621_A_31736523	NC_021161.1	Ca_Kabuli_Chr02	31736523	GG	AA	AA	INTERGENIC			
SNP_11622_A_31736844	NC_021161.1	Ca_Kabuli_Chr02	31736844	GG	TT	TT	INTERGENIC			
SNP_11623_A_31737127	NC_021161.1	Ca_Kabuli_Chr02	31737127	GG	AA	AA	INTERGENIC			
SNP_11624_A_31737371	NC_021161.1	Ca_Kabuli_Chr02	31737371	AA	CC	CC	INTERGENIC			
SNP_11625_A_31738009	NC_021161.1	Ca_Kabuli_Chr02	31738009	CC	TT	TT	INTERGENIC			
SNP_11626_A_31738015	NC_021161.1	Ca_Kabuli_Chr02	31738015	GG	AA	AA	INTERGENIC			
SNP_11627_A_31738341	NC_021161.1	Ca_Kabuli_Chr02	31738341	GG	AA	AA	INTERGENIC			
SNP_11628_A_31738641	NC_021161.1	Ca_Kabuli_Chr02	31738641	TT	CC	CC	INTERGENIC			
SNP_11629_A_31739109	NC_021161.1	Ca_Kabuli_Chr02	31739109	CC	TT	TT	INTERGENIC			
SNP_11630_A_31739141	NC_021161.1	Ca_Kabuli_Chr02	31739141	GG	AA	AA	INTERGENIC			
SNP_11631_A_31739183	NC_021161.1	Ca_Kabuli_Chr02	31739183	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11632_A_31739440	NC_021161.1	Ca_Kabuli_Chr02	31739440	TT	CC	CC	INTERGENIC		
SNP_11633_A_31740302	NC_021161.1	Ca_Kabuli_Chr02	31740302	CC	TT	TT	INTERGENIC		
SNP_11634_A_31740532	NC_021161.1	Ca_Kabuli_Chr02	31740532	TT	GG	GG	INTERGENIC		
SNP_11636_A_31749031	NC_021161.1	Ca_Kabuli_Chr02	31749031	GG	CC	CC	INTERGENIC		
SNP_11637_A_31754985	NC_021161.1	Ca_Kabuli_Chr02	31754985	AA	GG	GG	INTERGENIC		
SNP_11638_A_31755488	NC_021161.1	Ca_Kabuli_Chr02	31755488	TT	AA	AA	INTERGENIC		
SNP_11639_A_31760293	NC_021161.1	Ca_Kabuli_Chr02	31760293	AA	GG	GG	INTERGENIC		
SNP_11640_A_31760307	NC_021161.1	Ca_Kabuli_Chr02	31760307	TT	CC	CC	INTERGENIC		
SNP_11641_A_31767056	NC_021161.1	Ca_Kabuli_Chr02	31767056	CC	GG	GG	INTERGENIC		
SNP_11642_A_31780231	NC_021161.1	Ca_Kabuli_Chr02	31780231	TT	CC	CC	INTERGENIC		
SNP_11643_A_31780704	NC_021161.1	Ca_Kabuli_Chr02	31780704	CC	AA	AA	INTERGENIC		
SNP_11644_A_31780987	NC_021161.1	Ca_Kabuli_Chr02	31780987	AA	CC	CC	INTERGENIC		
SNP_11645_A_31781584	NC_021161.1	Ca_Kabuli_Chr02	31781584	TT	GG	GG	INTERGENIC		
SNP_11646_A_31781961	NC_021161.1	Ca_Kabuli_Chr02	31781961	CC	AA	AA	INTERGENIC		
SNP_11647_A_31783058	NC_021161.1	Ca_Kabuli_Chr02	31783058	AA	CC	CC	INTERGENIC		
SNP_11648_A_31783394	NC_021161.1	Ca_Kabuli_Chr02	31783394	CC	GG	GG	INTERGENIC		
SNP_11649_A_31784315	NC_021161.1	Ca_Kabuli_Chr02	31784315	TT	GG	GG	INTERGENIC		
SNP_11650_A_31784537	NC_021161.1	Ca_Kabuli_Chr02	31784537	AA	GG	GG	INTERGENIC		
SNP_11651_A_31793137	NC_021161.1	Ca_Kabuli_Chr02	31793137	AA	GG	GG	NON_SYNONYMOUS_CODING	101505079	abscisic acid and environmental stress-inducible protein
SNP_11652_A_31794021	NC_021161.1	Ca_Kabuli_Chr02	31794021	AA	TT	TT	INTRON	101505079	abscisic acid and environmental stress-inducible protein
SNP_11653_A_31794042	NC_021161.1	Ca_Kabuli_Chr02	31794042	GG	CC	CC	INTRON	101505079	abscisic acid and environmental stress-inducible protein
SNP_11655_A_31794222	NC_021161.1	Ca_Kabuli_Chr02	31794222	CC	AA	AA	NON_SYNONYMOUS_CODING	101505079	abscisic acid and environmental stress-inducible protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11656_A_31794246	NC_021161.1	Ca_Kabuli_Chr02	31794246	CC	TT	TT	SYNONYMOUS_CODING	101505079	abscisic acid and environmental stress-inducible protein
SNP_11657_A_31794292	NC_021161.1	Ca_Kabuli_Chr02	31794292	GG	AA	AA	NON_SYNONYMOUS_CODING	101505079	abscisic acid and environmental stress-inducible protein
SNP_11659_A_31796585	NC_021161.1	Ca_Kabuli_Chr02	31796585	TT	AA	AA	INTERGENIC		
SNP_11660_A_31798977	NC_021161.1	Ca_Kabuli_Chr02	31798977	TT	GG	GG	INTERGENIC		
SNP_11661_A_31799242	NC_021161.1	Ca_Kabuli_Chr02	31799242	GG	AA	AA	INTERGENIC		
SNP_11663_A_31799287	NC_021161.1	Ca_Kabuli_Chr02	31799287	TT	CC	CC	INTERGENIC		
SNP_11664_A_31799322	NC_021161.1	Ca_Kabuli_Chr02	31799322	TT	AA	AA	INTERGENIC		
SNP_11665_A_31805761	NC_021161.1	Ca_Kabuli_Chr02	31805761	TT	CC	CC	INTRON	101491732	uncharacterized LOC101491732
SNP_11666_A_31805799	NC_021161.1	Ca_Kabuli_Chr02	31805799	CC	TT	TT	INTRON	101491732	uncharacterized LOC101491732
SNP_11667_A_31806079	NC_021161.1	Ca_Kabuli_Chr02	31806079	TT	GG	GG	INTRON	101491732	uncharacterized LOC101491732
SNP_11668_A_31806455	NC_021161.1	Ca_Kabuli_Chr02	31806455	CC	TT	TT	INTRON	101491732	uncharacterized LOC101491732
SNP_11669_A_31811242	NC_021161.1	Ca_Kabuli_Chr02	31811242	CC	TT	TT	DRR	101505620	protein IQ-DOMAIN 1
SNP_11670_A_31811276	NC_021161.1	Ca_Kabuli_Chr02	31811276	GG	AA	AA	DRR	101505620	protein IQ-DOMAIN 1
SNP_11671_A_31812972	NC_021161.1	Ca_Kabuli_Chr02	31812972	CC	AA	AA	INTERGENIC		
SNP_11672_A_31813156	NC_021161.1	Ca_Kabuli_Chr02	31813156	GG	AA	AA	INTERGENIC		
SNP_11673_A_31814019	NC_021161.1	Ca_Kabuli_Chr02	31814019	CC	AA	AA	INTERGENIC		
SNP_11675_A_31814491	NC_021161.1	Ca_Kabuli_Chr02	31814491	CC	TT	TT	INTRON	101505620	protein IQ-DOMAIN 1
SNP_11676_A_31816090	NC_021161.1	Ca_Kabuli_Chr02	31816090	CC	GG	GG	INTERGENIC		
SNP_11677_A_31816184	NC_021161.1	Ca_Kabuli_Chr02	31816184	CC	TT	TT	URR	101505620	protein IQ-DOMAIN 1
SNP_11678_A_31816188	NC_021161.1	Ca_Kabuli_Chr02	31816188	AA	GG	GG	URR	101505620	protein IQ-DOMAIN 1
SNP_11679_A_31816287	NC_021161.1	Ca_Kabuli_Chr02	31816287	CC	TT	TT	URR	101505620	protein IQ-DOMAIN 1
SNP_11680_A_31819264	NC_021161.1	Ca_Kabuli_Chr02	31819264	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11681_A_31819265	NC_021161.1	Ca_Kabuli_Chr02	31819265	TT	AA	AA	INTERGENIC		
SNP_11682_A_31821724	NC_021161.1	Ca_Kabuli_Chr02	31821724	GG	TT	TT	INTERGENIC		
SNP_11683_A_31821922	NC_021161.1	Ca_Kabuli_Chr02	31821922	TT	CC	CC	INTERGENIC		
SNP_11684_A_31821979	NC_021161.1	Ca_Kabuli_Chr02	31821979	GG	CC	CC	INTERGENIC		
SNP_11685_A_31822067	NC_021161.1	Ca_Kabuli_Chr02	31822067	TT	GG	GG	INTERGENIC		
SNP_11686_A_31822077	NC_021161.1	Ca_Kabuli_Chr02	31822077	TT	CC	CC	INTERGENIC		
SNP_11687_A_31822385	NC_021161.1	Ca_Kabuli_Chr02	31822385	TT	CC	CC	DRR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11688_A_31822415	NC_021161.1	Ca_Kabuli_Chr02	31822415	TT	CC	CC	DRR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11689_A_31823795	NC_021161.1	Ca_Kabuli_Chr02	31823795	CC	TT	TT	URR	101506155	putative BPI/LBP family protein At1g04970
SNP_11690_A_31823802	NC_021161.1	Ca_Kabuli_Chr02	31823802	GG	CC	CC	URR	101506155	putative BPI/LBP family protein At1g04970
SNP_11691_A_31825220	NC_021161.1	Ca_Kabuli_Chr02	31825220	AA	GG	GG	INTERGENIC		
SNP_11692_A_31825352	NC_021161.1	Ca_Kabuli_Chr02	31825352	GG	AA	AA	INTERGENIC		
SNP_11693_A_31826687	NC_021161.1	Ca_Kabuli_Chr02	31826687	TT	AA	AA	DRR	101507030	ribonuclease Z, chloroplastic
SNP_11694_A_31827520	NC_021161.1	Ca_Kabuli_Chr02	31827520	TT	CC	CC	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11696_A_31828381	NC_021161.1	Ca_Kabuli_Chr02	31828381	GG	CC	CC	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11698_A_31828557	NC_021161.1	Ca_Kabuli_Chr02	31828557	AA	TT	TT	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11699_A_31828569	NC_021161.1	Ca_Kabuli_Chr02	31828569	TT	CC	CC	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11700_A_31828585	NC_021161.1	Ca_Kabuli_Chr02	31828585	TT	CC	CC	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11701_A_31828844	NC_021161.1	Ca_Kabuli_Chr02	31828844	AA	GG	GG	URR	101506488	39S ribosomal protein L41-A, mitochondrial-like
SNP_11702_A_31829384	NC_021161.1	Ca_Kabuli_Chr02	31829384	TT	CC	CC	INTRON	101507030	ribonuclease Z, chloroplastic
SNP_11703_A_31829536	NC_021161.1	Ca_Kabuli_Chr02	31829536	GG	AA	AA	SYNONYMOUS_CODING	101507030	ribonuclease Z, chloroplastic
SNP_11704_A_31832681	NC_021161.1	Ca_Kabuli_Chr02	31832681	TT	AA	AA	DRR	101507352	protein-tyrosine-phosphatase IBR5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11705_A_31832682	NC_021161.1	Ca_Kabuli_Chr02	31832682	AA	GG	GG	DRR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11706_A_31832687	NC_021161.1	Ca_Kabuli_Chr02	31832687	CC	TT	TT	DRR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11707_A_31832692	NC_021161.1	Ca_Kabuli_Chr02	31832692	AA	GG	GG	DRR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11708_A_31832695	NC_021161.1	Ca_Kabuli_Chr02	31832695	TT	CC	CC	DRR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11709_A_31834780	NC_021161.1	Ca_Kabuli_Chr02	31834780	TT	AA	AA	INTERGENIC		
SNP_11710_A_31838133	NC_021161.1	Ca_Kabuli_Chr02	31838133	CC	TT	TT	DRR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11712_A_31838941	NC_021161.1	Ca_Kabuli_Chr02	31838941	GG	AA	AA	URR	101507352	protein-tyrosine-phosphatase IBR5
SNP_11713_A_31846019	NC_021161.1	Ca_Kabuli_Chr02	31846019	TT	AA	AA	INTERGENIC		
SNP_11714_A_31849143	NC_021161.1	Ca_Kabuli_Chr02	31849143	TT	CC	CC	INTERGENIC		
SNP_11715_A_31849487	NC_021161.1	Ca_Kabuli_Chr02	31849487	AA	GG	GG	INTERGENIC		
SNP_11716_A_31849515	NC_021161.1	Ca_Kabuli_Chr02	31849515	CC	TT	TT	INTERGENIC		
SNP_11717_A_31849516	NC_021161.1	Ca_Kabuli_Chr02	31849516	TT	CC	CC	INTERGENIC		
SNP_11718_A_31849600	NC_021161.1	Ca_Kabuli_Chr02	31849600	AA	TT	TT	INTERGENIC		
SNP_11719_A_31849605	NC_021161.1	Ca_Kabuli_Chr02	31849605	TT	CC	CC	INTERGENIC		
SNP_11720_A_31850440	NC_021161.1	Ca_Kabuli_Chr02	31850440	CC	TT	TT	INTERGENIC		
SNP_11721_A_31850458	NC_021161.1	Ca_Kabuli_Chr02	31850458	GG	AA	AA	INTERGENIC		
SNP_11722_A_31851045	NC_021161.1	Ca_Kabuli_Chr02	31851045	CC	TT	TT	INTERGENIC		
SNP_11723_A_31851461	NC_021161.1	Ca_Kabuli_Chr02	31851461	AA	TT	TT	INTERGENIC		
SNP_11724_A_31851796	NC_021161.1	Ca_Kabuli_Chr02	31851796	GG	AA	AA	INTERGENIC		
SNP_11727_A_31853844	NC_021161.1	Ca_Kabuli_Chr02	31853844	AA	GG	GG	DRR	101507666	GDSL esterase/lipase At4g26790-like
SNP_11728_A_31854851	NC_021161.1	Ca_Kabuli_Chr02	31854851	AA	TT	TT	INTRON	101507666	GDSL esterase/lipase At4g26790-like
SNP_11729_A_31858935	NC_021161.1	Ca_Kabuli_Chr02	31858935	CC	TT	TT	URR	101507666	GDSL esterase/lipase At4g26790-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11730_A_31858946	NC_021161.1	Ca_Kabuli_Chr02	31858946	GG	AA	AA	URR	101507666	GDSL esterase/lipase At4g26790-like
SNP_11731_A_31858996	NC_021161.1	Ca_Kabuli_Chr02	31858996	CC	TT	TT	URR	101507666	GDSL esterase/lipase At4g26790-like
SNP_11732_A_31859001	NC_021161.1	Ca_Kabuli_Chr02	31859001	AA	GG	GG	URR	101507666	GDSL esterase/lipase At4g26790-like
SNP_11733_A_31859192	NC_021161.1	Ca_Kabuli_Chr02	31859192	TT	CC	CC	URR	101507666	GDSL esterase/lipase At4g26790-like
SNP_11734_A_31860491	NC_021161.1	Ca_Kabuli_Chr02	31860491	CC	AA	AA	INTERGENIC		
SNP_11735_A_31860514	NC_021161.1	Ca_Kabuli_Chr02	31860514	CC	TT	TT	INTERGENIC		
SNP_11736_A_31861509	NC_021161.1	Ca_Kabuli_Chr02	31861509	AA	TT	TT	INTERGENIC		
SNP_11738_A_31861788	NC_021161.1	Ca_Kabuli_Chr02	31861788	CC	GG	GG	INTERGENIC		
SNP_11739_A_31861820	NC_021161.1	Ca_Kabuli_Chr02	31861820	CC	AA	AA	INTERGENIC		
SNP_11740_A_31865680	NC_021161.1	Ca_Kabuli_Chr02	31865680	GG	TT	TT	INTERGENIC		
SNP_11741_A_31865809	NC_021161.1	Ca_Kabuli_Chr02	31865809	TT	CC	CC	INTERGENIC		
SNP_11742_A_31865865	NC_021161.1	Ca_Kabuli_Chr02	31865865	CC	TT	TT	INTERGENIC		
SNP_11743_A_31865901	NC_021161.1	Ca_Kabuli_Chr02	31865901	CC	TT	TT	INTERGENIC		
SNP_11744_A_31865918	NC_021161.1	Ca_Kabuli_Chr02	31865918	CC	TT	TT	INTERGENIC		
SNP_11745_A_31865930	NC_021161.1	Ca_Kabuli_Chr02	31865930	AA	GG	GG	INTERGENIC		
SNP_11746_A_31865933	NC_021161.1	Ca_Kabuli_Chr02	31865933	CC	TT	TT	INTERGENIC		
SNP_11747_A_31871327	NC_021161.1	Ca_Kabuli_Chr02	31871327	GG	AA	AA	INTERGENIC		
SNP_11748_A_31881396	NC_021161.1	Ca_Kabuli_Chr02	31881396	CC	TT	TT	INTRON	101508616	centromere/kinetochore protein zw10 homolog
SNP_11749_A_31881488	NC_021161.1	Ca_Kabuli_Chr02	31881488	AA	GG	GG	INTRON	101508616	centromere/kinetochore protein zw10 homolog
SNP_11750_A_31881918	NC_021161.1	Ca_Kabuli_Chr02	31881918	GG	TT	TT	NON_SYNONYMOUS_CODING	101508616	centromere/kinetochore protein zw10 homolog
SNP_11751_A_31882696	NC_021161.1	Ca_Kabuli_Chr02	31882696	GG	AA	AA	INTRON	101508616	centromere/kinetochore protein zw10 homolog
SNP_11752_A_31882704	NC_021161.1	Ca_Kabuli_Chr02	31882704	CC	TT	TT	INTRON	101508616	centromere/kinetochore protein zw10 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11753_A_31882707	NC_021161.1	Ca_Kabuli_Chr02	31882707	GG	AA	AA	INTRON	101508616	centromere/kinetochore protein zw10 homolog
SNP_11754_A_31882872	NC_021161.1	Ca_Kabuli_Chr02	31882872	TT	CC	CC	INTERGENIC		
SNP_11755_A_31882924	NC_021161.1	Ca_Kabuli_Chr02	31882924	AA	CC	CC	INTERGENIC		
SNP_11757_A_31882982	NC_021161.1	Ca_Kabuli_Chr02	31882982	TT	CC	CC	INTERGENIC		
SNP_11759_A_31883040	NC_021161.1	Ca_Kabuli_Chr02	31883040	AA	CC	CC	INTERGENIC		
SNP_11760_A_31883583	NC_021161.1	Ca_Kabuli_Chr02	31883583	GG	TT	TT	INTERGENIC		
SNP_11761_A_31891906	NC_021161.1	Ca_Kabuli_Chr02	31891906	GG	AA	AA	INTERGENIC		
SNP_11762_A_31892602	NC_021161.1	Ca_Kabuli_Chr02	31892602	CC	GG	GG	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11764_A_31893042	NC_021161.1	Ca_Kabuli_Chr02	31893042	TT	AA	AA	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11765_A_31893130	NC_021161.1	Ca_Kabuli_Chr02	31893130	TT	CC	CC	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11766_A_31893140	NC_021161.1	Ca_Kabuli_Chr02	31893140	AA	GG	GG	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11767_A_31893240	NC_021161.1	Ca_Kabuli_Chr02	31893240	AA	GG	GG	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11768_A_31893244	NC_021161.1	Ca_Kabuli_Chr02	31893244	TT	CC	CC	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11769_A_31893285	NC_021161.1	Ca_Kabuli_Chr02	31893285	GG	AA	AA	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11770_A_31893292	NC_021161.1	Ca_Kabuli_Chr02	31893292	AA	TT	TT	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11771_A_31893346	NC_021161.1	Ca_Kabuli_Chr02	31893346	AA	GG	GG	URR	101508932	protein disulfide isomerase-like 2-3
SNP_11772_A_31895451	NC_021161.1	Ca_Kabuli_Chr02	31895451	AA	GG	GG	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11773_A_31895602	NC_021161.1	Ca_Kabuli_Chr02	31895602	GG	AA	AA	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11774_A_31896133	NC_021161.1	Ca_Kabuli_Chr02	31896133	CC	AA	AA	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11775_A_31899131	NC_021161.1	Ca_Kabuli_Chr02	31899131	TT	CC	CC	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11776_A_31899301	NC_021161.1	Ca_Kabuli_Chr02	31899301	GG	TT	TT	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11777_A_31899531	NC_021161.1	Ca_Kabuli_Chr02	31899531	CC	TT	TT	INTRON	101509247	triacylglycerol lipase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11778_A_31899537	NC_021161.1	Ca_Kabuli_Chr02	31899537	GG	AA	AA	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11779_A_31901807	NC_021161.1	Ca_Kabuli_Chr02	31901807	GG	AA	AA	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11780_A_31901808	NC_021161.1	Ca_Kabuli_Chr02	31901808	TT	CC	CC	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11781_A_31901974	NC_021161.1	Ca_Kabuli_Chr02	31901974	AA	CC	CC	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11782_A_31901995	NC_021161.1	Ca_Kabuli_Chr02	31901995	TT	GG	GG	INTRON	101509247	triacylglycerol lipase 2-like
SNP_11783_A_31903109	NC_021161.1	Ca_Kabuli_Chr02	31903109	GG	AA	AA	INTERGENIC		
SNP_11784_A_31903142	NC_021161.1	Ca_Kabuli_Chr02	31903142	CC	TT	TT	INTERGENIC		
SNP_11785_A_31903218	NC_021161.1	Ca_Kabuli_Chr02	31903218	TT	CC	CC	INTERGENIC		
SNP_11786_A_31904118	NC_021161.1	Ca_Kabuli_Chr02	31904118	TT	GG	GG	INTERGENIC		
SNP_11787_A_31904440	NC_021161.1	Ca_Kabuli_Chr02	31904440	CC	AA	AA	INTERGENIC		
SNP_11788_A_31904452	NC_021161.1	Ca_Kabuli_Chr02	31904452	CC	TT	TT	INTERGENIC		
SNP_11789_A_31904918	NC_021161.1	Ca_Kabuli_Chr02	31904918	AA	GG	GG	INTERGENIC		
SNP_11790_A_31905048	NC_021161.1	Ca_Kabuli_Chr02	31905048	CC	TT	TT	INTERGENIC		
SNP_11791_A_31905162	NC_021161.1	Ca_Kabuli_Chr02	31905162	GG	AA	AA	INTERGENIC		
SNP_11793_A_31905475	NC_021161.1	Ca_Kabuli_Chr02	31905475	CC	AA	AA	INTERGENIC		
SNP_11794_A_31905476	NC_021161.1	Ca_Kabuli_Chr02	31905476	GG	TT	TT	INTERGENIC		
SNP_11795_A_31905480	NC_021161.1	Ca_Kabuli_Chr02	31905480	AA	TT	TT	INTERGENIC		
SNP_11797_A_31905960	NC_021161.1	Ca_Kabuli_Chr02	31905960	AA	GG	GG	URR	101509247	triacylglycerol lipase 2-like
SNP_11798_A_31906090	NC_021161.1	Ca_Kabuli_Chr02	31906090	AA	GG	GG	URR	101509247	triacylglycerol lipase 2-like
SNP_11799_A_31907541	NC_021161.1	Ca_Kabuli_Chr02	31907541	AA	TT	TT	URR	101509247	triacylglycerol lipase 2-like
SNP_11800_A_31908377	NC_021161.1	Ca_Kabuli_Chr02	31908377	GG	AA	AA	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11801_A_31909395	NC_021161.1	Ca_Kabuli_Chr02	31909395	CC	TT	TT	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11802_A_31911365	NC_021161.1	Ca_Kabuli_Chr02	31911365	GG	AA	AA	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11803_A_31911657	NC_021161.1	Ca_Kabuli_Chr02	31911657	AA	TT	TT	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11805_A_31916122	NC_021161.1	Ca_Kabuli_Chr02	31916122	GG	TT	TT	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11806_A_31917531	NC_021161.1	Ca_Kabuli_Chr02	31917531	CC	TT	TT	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11807_A_31918859	NC_021161.1	Ca_Kabuli_Chr02	31918859	AA	GG	GG	INTRON	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11808_A_31920007	NC_021161.1	Ca_Kabuli_Chr02	31920007	TT	CC	CC	URR	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11810_A_31921045	NC_021161.1	Ca_Kabuli_Chr02	31921045	CC	GG	GG	URR	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11811_A_31921415	NC_021161.1	Ca_Kabuli_Chr02	31921415	AA	GG	GG	URR	101509797	E3 ubiquitin-protein ligase BRE1-like 2
SNP_11813_A_31921905	NC_021161.1	Ca_Kabuli_Chr02	31921905	GG	AA	AA	INTERGENIC		
SNP_11814_A_31922960	NC_021161.1	Ca_Kabuli_Chr02	31922960	AA	GG	GG	INTERGENIC		
SNP_11815_A_31922977	NC_021161.1	Ca_Kabuli_Chr02	31922977	TT	GG	GG	INTERGENIC		
SNP_11816_A_31925042	NC_021161.1	Ca_Kabuli_Chr02	31925042	CC	AA	AA	INTERGENIC		
SNP_11817_A_31925258	NC_021161.1	Ca_Kabuli_Chr02	31925258	CC	GG	GG	INTERGENIC		
SNP_11819_A_31926511	NC_021161.1	Ca_Kabuli_Chr02	31926511	AA	CC	CC	INTERGENIC		
SNP_11820_A_31926520	NC_021161.1	Ca_Kabuli_Chr02	31926520	AA	GG	GG	INTERGENIC		
SNP_11821_A_31929882	NC_021161.1	Ca_Kabuli_Chr02	31929882	AA	GG	GG	URR	101510116	ethylene-responsive transcription factor 3-like
SNP_11822_A_31929913	NC_021161.1	Ca_Kabuli_Chr02	31929913	TT	CC	CC	URR	101510116	ethylene-responsive transcription factor 3-like
SNP_11823_A_31932804	NC_021161.1	Ca_Kabuli_Chr02	31932804	AA	GG	GG	INTERGENIC		
SNP_11824_A_31935373	NC_021161.1	Ca_Kabuli_Chr02	31935373	TT	CC	CC	INTERGENIC		
SNP_11825_A_31936391	NC_021161.1	Ca_Kabuli_Chr02	31936391	TT	AA	AA	INTERGENIC		
SNP_11826_A_31939017	NC_021161.1	Ca_Kabuli_Chr02	31939017	GG	AA	AA	DRR	101510439	zinc finger CCH domain-containing protein 3
SNP_11828_A_31941554	NC_021161.1	Ca_Kabuli_Chr02	31941554	AA	TT	TT	INTRON	101510439	zinc finger CCH domain-containing protein 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11829_A_31944702	NC_021161.1	Ca_Kabuli_Chr02	31944702	TT	CC	CC	URR	101510439	zinc finger CCH domain-containing protein 3
SNP_11830_A_31945956	NC_021161.1	Ca_Kabuli_Chr02	31945956	CC	TT	TT	URR	101510439	zinc finger CCH domain-containing protein 3
SNP_11831_A_31945964	NC_021161.1	Ca_Kabuli_Chr02	31945964	TT	GG	GG	URR	101510439	zinc finger CCH domain-containing protein 3
SNP_11833_A_31947873	NC_021161.1	Ca_Kabuli_Chr02	31947873	AA	GG	GG	INTERGENIC		
SNP_11834_A_31947877	NC_021161.1	Ca_Kabuli_Chr02	31947877	TT	CC	CC	INTERGENIC		
SNP_11835_A_31948063	NC_021161.1	Ca_Kabuli_Chr02	31948063	TT	CC	CC	INTERGENIC		
SNP_11836_A_31953236	NC_021161.1	Ca_Kabuli_Chr02	31953236	CC	TT	TT	INTERGENIC		
SNP_11837_A_31955875	NC_021161.1	Ca_Kabuli_Chr02	31955875	GG	TT	TT	INTERGENIC		
SNP_11838_A_31956464	NC_021161.1	Ca_Kabuli_Chr02	31956464	AA	GG	GG	INTERGENIC		
SNP_11839_A_31956468	NC_021161.1	Ca_Kabuli_Chr02	31956468	AA	GG	GG	INTERGENIC		
SNP_11840_A_31958120	NC_021161.1	Ca_Kabuli_Chr02	31958120	GG	AA	AA	NON_SYNONYMOUS_CODING	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11841_A_31958213	NC_021161.1	Ca_Kabuli_Chr02	31958213	AA	GG	GG	INTRON	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11842_A_31958227	NC_021161.1	Ca_Kabuli_Chr02	31958227	TT	CC	CC	INTRON	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11843_A_31958471	NC_021161.1	Ca_Kabuli_Chr02	31958471	CC	TT	TT	INTRON	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11844_A_31958525	NC_021161.1	Ca_Kabuli_Chr02	31958525	AA	GG	GG	INTRON	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11845_A_31960075	NC_021161.1	Ca_Kabuli_Chr02	31960075	AA	GG	GG	INTRON	101492725	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_11846_A_31964485	NC_021161.1	Ca_Kabuli_Chr02	31964485	TT	CC	CC	DRR	101510767	E3 ubiquitin-protein ligase COP1
SNP_11847_A_31981070	NC_021161.1	Ca_Kabuli_Chr02	31981070	GG	AA	AA	INTERGENIC		
SNP_11848_A_31981626	NC_021161.1	Ca_Kabuli_Chr02	31981626	TT	CC	CC	INTERGENIC		
SNP_11849_A_31992321	NC_021161.1	Ca_Kabuli_Chr02	31992321	AA	GG	GG	INTERGENIC		
SNP_11850_A_32002598	NC_021161.1	Ca_Kabuli_Chr02	32002598	AA	GG	GG	INTERGENIC		
SNP_11851_A_32003468	NC_021161.1	Ca_Kabuli_Chr02	32003468	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11852_A_32003469	NC_021161.1	Ca_Kabuli_Chr02	32003469	TT	CC	CC	INTERGENIC		
SNP_11853_A_32003473	NC_021161.1	Ca_Kabuli_Chr02	32003473	GG	AA	AA	INTERGENIC		
SNP_11854_A_32008336	NC_021161.1	Ca_Kabuli_Chr02	32008336	TT	CC	CC	INTERGENIC		
SNP_11855_A_32008549	NC_021161.1	Ca_Kabuli_Chr02	32008549	GG	AA	AA	INTERGENIC		
SNP_11856_A_32012972	NC_021161.1	Ca_Kabuli_Chr02	32012972	AA	GG	GG	DRR	101511093	probable tyrosine-protein phosphatase At1g05000
SNP_11857_A_32012984	NC_021161.1	Ca_Kabuli_Chr02	32012984	GG	AA	AA	DRR	101511093	probable tyrosine-protein phosphatase At1g05000
SNP_11858_A_32021412	NC_021161.1	Ca_Kabuli_Chr02	32021412	AA	GG	GG	INTERGENIC		
SNP_11859_A_32024091	NC_021161.1	Ca_Kabuli_Chr02	32024091	GG	AA	AA	INTERGENIC		
SNP_11860_A_32025214	NC_021161.1	Ca_Kabuli_Chr02	32025214	TT	CC	CC	INTERGENIC		
SNP_11861_A_32033409	NC_021161.1	Ca_Kabuli_Chr02	32033409	CC	GG	GG	DRR	101511400	uncharacterized LOC101511400
SNP_11862_A_32036581	NC_021161.1	Ca_Kabuli_Chr02	32036581	GG	AA	AA	INTRON	101511400	uncharacterized LOC101511400
SNP_11863_A_32046205	NC_021161.1	Ca_Kabuli_Chr02	32046205	CC	TT	TT	INTERGENIC		
SNP_11864_A_32046207	NC_021161.1	Ca_Kabuli_Chr02	32046207	CC	TT	TT	INTERGENIC		
SNP_11865_A_32046243	NC_021161.1	Ca_Kabuli_Chr02	32046243	GG	AA	AA	INTERGENIC		
SNP_11866_A_32046276	NC_021161.1	Ca_Kabuli_Chr02	32046276	TT	CC	CC	INTERGENIC		
SNP_11867_A_32048211	NC_021161.1	Ca_Kabuli_Chr02	32048211	TT	AA	AA	INTERGENIC		
SNP_11868_A_32057390	NC_021161.1	Ca_Kabuli_Chr02	32057390	TT	GG	GG	DRR	101493058	uncharacterized LOC101493058
SNP_11869_A_32057617	NC_021161.1	Ca_Kabuli_Chr02	32057617	GG	TT	TT	DRR	101493058	uncharacterized LOC101493058
SNP_11870_A_32059890	NC_021161.1	Ca_Kabuli_Chr02	32059890	GG	AA	AA	NON_SYNONYMOUS_CODING	101493058	uncharacterized LOC101493058
SNP_11871_A_32059913	NC_021161.1	Ca_Kabuli_Chr02	32059913	GG	AA	AA	INTRON	101493058	uncharacterized LOC101493058
SNP_11872_A_32059914	NC_021161.1	Ca_Kabuli_Chr02	32059914	AA	GG	GG	INTRON	101493058	uncharacterized LOC101493058
SNP_11873_A_32065322	NC_021161.1	Ca_Kabuli_Chr02	32065322	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_11874_A_32070859	NC_021161.1	Ca_Kabuli_Chr02	32070859	GG	TT	TT	DRR	101512471	transmembrane protein 256 homolog
SNP_11875_A_32074774	NC_021161.1	Ca_Kabuli_Chr02	32074774	AA	GG	GG	DRR	101512790	serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B-like
SNP_11876_A_32083348	NC_021161.1	Ca_Kabuli_Chr02	32083348	AA	GG	GG	URR	101512790	serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B-like
SNP_11877_A_32083359	NC_021161.1	Ca_Kabuli_Chr02	32083359	AA	GG	GG	URR	101512790	serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B-like
SNP_11878_A_32083507	NC_021161.1	Ca_Kabuli_Chr02	32083507	CC	GG	GG	URR	101512790	serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B-like
SNP_11880_A_32088931	NC_021161.1	Ca_Kabuli_Chr02	32088931	CC	GG	GG	INTERGENIC		
SNP_11881_A_32089444	NC_021161.1	Ca_Kabuli_Chr02	32089444	AA	CC	CC	INTERGENIC		
SNP_11882_A_32089515	NC_021161.1	Ca_Kabuli_Chr02	32089515	GG	AA	AA	INTERGENIC		
SNP_11883_A_32099648	NC_021161.1	Ca_Kabuli_Chr02	32099648	AA	TT	TT	INTERGENIC		
SNP_11884_A_32100202	NC_021161.1	Ca_Kabuli_Chr02	32100202	GG	TT	TT	INTERGENIC		
SNP_11885_A_32104719	NC_021161.1	Ca_Kabuli_Chr02	32104719	GG	AA	AA	URR	101513445	Unknown function
SNP_11886_A_32113308	NC_021161.1	Ca_Kabuli_Chr02	32113308	GG	AA	AA	INTRON	101493700	TMV resistance protein N-like
SNP_11887_A_32113740	NC_021161.1	Ca_Kabuli_Chr02	32113740	AA	GG	GG	INTRON	101493700	TMV resistance protein N-like
SNP_11888_A_32114593	NC_021161.1	Ca_Kabuli_Chr02	32114593	AA	CC	CC	NON_SYNONYMOUS_CODING	101493700	TMV resistance protein N-like
SNP_11889_A_32116204	NC_021161.1	Ca_Kabuli_Chr02	32116204	AA	GG	GG	URR	101493700	TMV resistance protein N-like
SNP_11890_A_32122645	NC_021161.1	Ca_Kabuli_Chr02	32122645	GG	AA	AA	START_GAINED	101514321	glucan endo-1,3-beta-glucosidase 12-like
SNP_11891_A_32126993	NC_021161.1	Ca_Kabuli_Chr02	32126993	AA	TT	TT	INTRON	id38798	Unknown function
SNP_11893_A_32127462	NC_021161.1	Ca_Kabuli_Chr02	32127462	AA	TT	TT	NON_SYNONYMOUS_CODING	id38798	Unknown function
SNP_11894_A_32128629	NC_021161.1	Ca_Kabuli_Chr02	32128629	CC	AA	AA	DRR	101515501	phenylalanine--tRNA ligase, chloroplast/mtochondrial
SNP_11895_A_32134514	NC_021161.1	Ca_Kabuli_Chr02	32134514	AA	GG	GG	INTRON	101515501	phenylalanine--tRNA ligase, chloroplast/mtochondrial
SNP_11896_A_32134773	NC_021161.1	Ca_Kabuli_Chr02	32134773	TT	CC	CC	INTERGENIC		
SNP_11897_A_32134856	NC_021161.1	Ca_Kabuli_Chr02	32134856	TT	CC	CC	INTERGENIC		

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SNP_11898_A_32139426	NC_021161.1	Ca_Kabuli_Chr02	32139426	TT	AA	AA	DRR	101489157	subtilisin-like protease Glyma18g48580
SNP_11899_A_32145129	NC_021161.1	Ca_Kabuli_Chr02	32145129	TT	CC	CC	INTRON	101489157	subtilisin-like protease Glyma18g48580
SNP_11900_A_32145131	NC_021161.1	Ca_Kabuli_Chr02	32145131	CC	TT	TT	INTRON	101489157	subtilisin-like protease Glyma18g48580
SNP_11901_A_32145299	NC_021161.1	Ca_Kabuli_Chr02	32145299	TT	AA	AA	INTRON	101489157	subtilisin-like protease Glyma18g48580
SNP_11902_A_32145392	NC_021161.1	Ca_Kabuli_Chr02	32145392	CC	AA	AA	INTRON	101489157	subtilisin-like protease Glyma18g48580
SNP_11903_A_32145445	NC_021161.1	Ca_Kabuli_Chr02	32145445	TT	GG	GG	INTRON	101489157	subtilisin-like protease Glyma18g48580
SNP_11905_A_32153107	NC_021161.1	Ca_Kabuli_Chr02	32153107	AA	CC	CC	INTERGENIC		
SNP_11906_A_32156271	NC_021161.1	Ca_Kabuli_Chr02	32156271	CC	TT	TT	INTERGENIC		
SNP_11907_A_32156290	NC_021161.1	Ca_Kabuli_Chr02	32156290	CC	GG	GG	INTERGENIC		
SNP_11908_A_32156327	NC_021161.1	Ca_Kabuli_Chr02	32156327	TT	GG	GG	INTERGENIC		
SNP_11909_A_32156328	NC_021161.1	Ca_Kabuli_Chr02	32156328	TT	AA	AA	INTERGENIC		
SNP_11910_A_32156334	NC_021161.1	Ca_Kabuli_Chr02	32156334	AA	CC	CC	INTERGENIC		
SNP_11911_A_32158698	NC_021161.1	Ca_Kabuli_Chr02	32158698	AA	TT	TT	DRR	101494021	nucleobase-ascorbate transporter 1-like
SNP_11912_A_32158871	NC_021161.1	Ca_Kabuli_Chr02	32158871	AA	GG	GG	DRR	101494021	nucleobase-ascorbate transporter 1-like
SNP_11913_A_32160094	NC_021161.1	Ca_Kabuli_Chr02	32160094	CC	TT	TT	URR	101489486	probable LRR receptor-like serine/threonine-protein kinase At4g08850
SNP_11914_A_32160413	NC_021161.1	Ca_Kabuli_Chr02	32160413	AA	GG	GG	INTERGENIC		
SNP_11915_A_32160729	NC_021161.1	Ca_Kabuli_Chr02	32160729	TT	CC	CC	INTERGENIC		
SNP_11916_A_32160730	NC_021161.1	Ca_Kabuli_Chr02	32160730	AA	CC	CC	INTERGENIC		
SNP_11919_A_32164148	NC_021161.1	Ca_Kabuli_Chr02	32164148	GG	AA	AA	INTRON	101494021	nucleobase-ascorbate transporter 1-like
SNP_11920_A_32167716	NC_021161.1	Ca_Kabuli_Chr02	32167716	AA	TT	TT	INTRON	101494021	nucleobase-ascorbate transporter 1-like
SNP_11921_A_32168305	NC_021161.1	Ca_Kabuli_Chr02	32168305	TT	AA	AA	URR	101494021	nucleobase-ascorbate transporter 1-like
SNP_11923_A_32178251	NC_021161.1	Ca_Kabuli_Chr02	32178251	AA	CC	CC	INTERGENIC		

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SNP_11924_A_32179029	NC_021161.1	Ca_Kabuli_Chr02	32179029	AA	CC	CC	INTERGENIC		
SNP_11925_A_32179340	NC_021161.1	Ca_Kabuli_Chr02	32179340	TT	GG	GG	INTERGENIC		
SNP_11926_A_32180539	NC_021161.1	Ca_Kabuli_Chr02	32180539	AA	CC	CC	INTERGENIC		
SNP_11927_A_32183074	NC_021161.1	Ca_Kabuli_Chr02	32183074	CC	TT	TT	INTERGENIC		
SNP_11928_A_32183099	NC_021161.1	Ca_Kabuli_Chr02	32183099	AA	TT	TT	INTERGENIC		
SNP_11929_A_32204165	NC_021161.1	Ca_Kabuli_Chr02	32204165	AA	TT	TT	INTRON	101490875	cucumisin-like
SNP_11930_A_32208817	NC_021161.1	Ca_Kabuli_Chr02	32208817	TT	CC	CC	INTRON	101490875	cucumisin-like
SNP_11931_A_32208822	NC_021161.1	Ca_Kabuli_Chr02	32208822	GG	AA	AA	INTRON	101490875	cucumisin-like
SNP_11932_A_32208937	NC_021161.1	Ca_Kabuli_Chr02	32208937	TT	CC	CC	INTRON	101490875	cucumisin-like
SNP_11933_A_32209005	NC_021161.1	Ca_Kabuli_Chr02	32209005	TT	AA	AA	INTRON	101490875	cucumisin-like
SNP_11934_A_32209035	NC_021161.1	Ca_Kabuli_Chr02	32209035	TT	AA	AA	INTRON	101490875	cucumisin-like
SNP_11936_A_32209145	NC_021161.1	Ca_Kabuli_Chr02	32209145	GG	TT	TT	NON_SYNONYMOUS_CODING	101490875	cucumisin-like
SNP_11937_A_32209171	NC_021161.1	Ca_Kabuli_Chr02	32209171	AA	CC	CC	NON_SYNONYMOUS_CODING	101490875	cucumisin-like
SNP_11938_A_32209179	NC_021161.1	Ca_Kabuli_Chr02	32209179	GG	AA	AA	NON_SYNONYMOUS_CODING	101490875	cucumisin-like
SNP_11939_A_32209201	NC_021161.1	Ca_Kabuli_Chr02	32209201	AA	TT	TT	NON_SYNONYMOUS_CODING	101490875	cucumisin-like
SNP_11940_A_32209208	NC_021161.1	Ca_Kabuli_Chr02	32209208	CC	TT	TT	NON_SYNONYMOUS_CODING	101490875	cucumisin-like
SNP_11941_A_32209291	NC_021161.1	Ca_Kabuli_Chr02	32209291	GG	CC	CC	URR	101490875	cucumisin-like
SNP_11942_A_32209319	NC_021161.1	Ca_Kabuli_Chr02	32209319	CC	AA	AA	URR	101490875	cucumisin-like
SNP_11944_A_32209368	NC_021161.1	Ca_Kabuli_Chr02	32209368	TT	CC	CC	URR	101490875	cucumisin-like
SNP_11945_A_32209427	NC_021161.1	Ca_Kabuli_Chr02	32209427	AA	CC	CC	URR	101490875	cucumisin-like
SNP_11946_A_32209429	NC_021161.1	Ca_Kabuli_Chr02	32209429	AA	TT	TT	URR	101490875	cucumisin-like
SNP_11947_A_32209435	NC_021161.1	Ca_Kabuli_Chr02	32209435	GG	AA	AA	URR	101490875	cucumisin-like

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SNP_11948_A_32209479	NC_021161.1	Ca_Kabuli_Chr02	32209479	CC	TT	TT	URR	101490875	cucumisin-like
SNP_11949_A_32209606	NC_021161.1	Ca_Kabuli_Chr02	32209606	GG	AA	AA	URR	101490875	cucumisin-like
SNP_11950_A_32209621	NC_021161.1	Ca_Kabuli_Chr02	32209621	TT	CC	CC	URR	101490875	cucumisin-like
SNP_11951_A_32209631	NC_021161.1	Ca_Kabuli_Chr02	32209631	GG	TT	TT	URR	101490875	cucumisin-like
SNP_11952_A_32209648	NC_021161.1	Ca_Kabuli_Chr02	32209648	CC	GG	GG	URR	101490875	cucumisin-like
SNP_11953_A_32209663	NC_021161.1	Ca_Kabuli_Chr02	32209663	AA	CC	CC	URR	101490875	cucumisin-like
SNP_11955_A_32209729	NC_021161.1	Ca_Kabuli_Chr02	32209729	TT	AA	AA	URR	101490875	cucumisin-like
SNP_11956_A_32209742	NC_021161.1	Ca_Kabuli_Chr02	32209742	AA	CC	CC	URR	101490875	cucumisin-like
SNP_11957_A_32209766	NC_021161.1	Ca_Kabuli_Chr02	32209766	AA	GG	GG	URR	101490875	cucumisin-like
SNP_11958_A_32209793	NC_021161.1	Ca_Kabuli_Chr02	32209793	AA	CC	CC	URR	101490875	cucumisin-like
SNP_11959_A_32209845	NC_021161.1	Ca_Kabuli_Chr02	32209845	GG	AA	AA	URR	101490875	cucumisin-like
SNP_11960_A_32209871	NC_021161.1	Ca_Kabuli_Chr02	32209871	GG	CC	CC	URR	101490875	cucumisin-like
SNP_11961_A_32209927	NC_021161.1	Ca_Kabuli_Chr02	32209927	CC	GG	GG	URR	101490875	cucumisin-like
SNP_11962_A_32209990	NC_021161.1	Ca_Kabuli_Chr02	32209990	CC	TT	TT	URR	101490875	cucumisin-like
SNP_11963_A_32210010	NC_021161.1	Ca_Kabuli_Chr02	32210010	AA	CC	CC	URR	101490875	cucumisin-like
SNP_11964_A_32210049	NC_021161.1	Ca_Kabuli_Chr02	32210049	AA	GG	GG	URR	101490875	cucumisin-like
SNP_11966_A_32210189	NC_021161.1	Ca_Kabuli_Chr02	32210189	AA	TT	TT	URR	101490875	cucumisin-like
SNP_11968_A_32211592	NC_021161.1	Ca_Kabuli_Chr02	32211592	GG	TT	TT	INTERGENIC		
SNP_11969_A_32211898	NC_021161.1	Ca_Kabuli_Chr02	32211898	TT	GG	GG	INTERGENIC		
SNP_11971_A_32212178	NC_021161.1	Ca_Kabuli_Chr02	32212178	CC	AA	AA	INTERGENIC		
SNP_11972_A_32212180	NC_021161.1	Ca_Kabuli_Chr02	32212180	TT	CC	CC	INTERGENIC		
SNP_11973_A_32212491	NC_021161.1	Ca_Kabuli_Chr02	32212491	CC	TT	TT	INTERGENIC		

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SNP_11974_A_32212607	NC_021161.1	Ca_Kabuli_Chr02	32212607	TT	AA	AA	INTERGENIC		
SNP_11976_A_32213346	NC_021161.1	Ca_Kabuli_Chr02	32213346	CC	TT	TT	INTERGENIC		
SNP_11977_A_32213351	NC_021161.1	Ca_Kabuli_Chr02	32213351	CC	TT	TT	INTERGENIC		
SNP_11978_A_32213382	NC_021161.1	Ca_Kabuli_Chr02	32213382	TT	AA	AA	INTERGENIC		
SNP_11979_A_32213420	NC_021161.1	Ca_Kabuli_Chr02	32213420	GG	AA	AA	INTERGENIC		
SNP_11981_A_32213807	NC_021161.1	Ca_Kabuli_Chr02	32213807	CC	TT	TT	INTERGENIC		
SNP_11982_A_32214942	NC_021161.1	Ca_Kabuli_Chr02	32214942	TT	CC	CC	INTERGENIC		
SNP_11983_A_32216465	NC_021161.1	Ca_Kabuli_Chr02	32216465	CC	TT	TT	INTERGENIC		
SNP_11984_A_32222665	NC_021161.1	Ca_Kabuli_Chr02	32222665	GG	AA	AA	INTERGENIC		
SNP_11985_A_32222927	NC_021161.1	Ca_Kabuli_Chr02	32222927	AA	GG	GG	INTERGENIC		
SNP_11986_A_32222940	NC_021161.1	Ca_Kabuli_Chr02	32222940	CC	GG	GG	INTERGENIC		
SNP_11987_A_32222942	NC_021161.1	Ca_Kabuli_Chr02	32222942	TT	CC	CC	INTERGENIC		
SNP_11988_A_32222975	NC_021161.1	Ca_Kabuli_Chr02	32222975	CC	TT	TT	INTERGENIC		
SNP_11989_A_32223049	NC_021161.1	Ca_Kabuli_Chr02	32223049	GG	AA	AA	INTERGENIC		
SNP_11990_A_32242731	NC_021161.1	Ca_Kabuli_Chr02	32242731	CC	AA	AA	INTERGENIC		
SNP_11992_A_32247753	NC_021161.1	Ca_Kabuli_Chr02	32247753	CC	TT	TT	INTERGENIC		
SNP_11993_A_32249198	NC_021161.1	Ca_Kabuli_Chr02	32249198	GG	AA	AA	INTERGENIC		
SNP_11994_A_32249964	NC_021161.1	Ca_Kabuli_Chr02	32249964	CC	TT	TT	INTERGENIC		
SNP_11995_A_32251668	NC_021161.1	Ca_Kabuli_Chr02	32251668	TT	CC	CC	URR	101495186	protein NRT1/ PTR FAMILY 6.4
SNP_11996_A_32252273	NC_021161.1	Ca_Kabuli_Chr02	32252273	CC	TT	TT	URR	101495186	protein NRT1/ PTR FAMILY 6.4
SNP_11997_A_32258988	NC_021161.1	Ca_Kabuli_Chr02	32258988	TT	AA	AA	INTRON	101495840	homeobox protein SBH1-like
SNP_11998_A_32259025	NC_021161.1	Ca_Kabuli_Chr02	32259025	GG	AA	AA	INTRON	101495840	homeobox protein SBH1-like

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SNP_11999_A_32261882	NC_021161.1	Ca_Kabuli_Chr02	32261882	GG	AA	AA	URR	101495840	homeobox protein SBH1-like
SNP_12000_A_32264779	NC_021161.1	Ca_Kabuli_Chr02	32264779	GG	AA	AA	INTERGENIC		
SNP_12001_A_32266102	NC_021161.1	Ca_Kabuli_Chr02	32266102	AA	GG	GG	INTERGENIC		
SNP_12002_A_32266126	NC_021161.1	Ca_Kabuli_Chr02	32266126	CC	AA	AA	INTERGENIC		
SNP_12003_A_32266384	NC_021161.1	Ca_Kabuli_Chr02	32266384	GG	AA	AA	INTERGENIC		
SNP_12004_A_32266403	NC_021161.1	Ca_Kabuli_Chr02	32266403	TT	CC	CC	INTERGENIC		
SNP_12005_A_32266948	NC_021161.1	Ca_Kabuli_Chr02	32266948	AA	TT	TT	INTERGENIC		
SNP_12006_A_32267310	NC_021161.1	Ca_Kabuli_Chr02	32267310	TT	GG	GG	INTERGENIC		
SNP_12007_A_32267376	NC_021161.1	Ca_Kabuli_Chr02	32267376	GG	AA	AA	INTERGENIC		
SNP_12008_A_32267979	NC_021161.1	Ca_Kabuli_Chr02	32267979	TT	CC	CC	INTERGENIC		
SNP_12009_A_32269251	NC_021161.1	Ca_Kabuli_Chr02	32269251	GG	AA	AA	INTERGENIC		
SNP_12010_A_32269975	NC_021161.1	Ca_Kabuli_Chr02	32269975	CC	TT	TT	INTERGENIC		
SNP_12011_A_32271647	NC_021161.1	Ca_Kabuli_Chr02	32271647	AA	CC	CC	INTERGENIC		
SNP_12012_A_32272368	NC_021161.1	Ca_Kabuli_Chr02	32272368	AA	GG	GG	INTERGENIC		
SNP_12013_A_32272435	NC_021161.1	Ca_Kabuli_Chr02	32272435	AA	GG	GG	INTERGENIC		
SNP_12014_A_32274708	NC_021161.1	Ca_Kabuli_Chr02	32274708	CC	TT	TT	INTERGENIC		
SNP_12016_A_32290479	NC_021161.1	Ca_Kabuli_Chr02	32290479	CC	TT	TT	URR	101496494	protein FAM91A1-like
SNP_12017_A_32290611	NC_021161.1	Ca_Kabuli_Chr02	32290611	CC	TT	TT	URR	101496494	protein FAM91A1-like
SNP_12018_A_32290650	NC_021161.1	Ca_Kabuli_Chr02	32290650	AA	GG	GG	URR	101496494	protein FAM91A1-like
SNP_12019_A_32290652	NC_021161.1	Ca_Kabuli_Chr02	32290652	GG	AA	AA	URR	101496494	protein FAM91A1-like
SNP_12020_A_32291315	NC_021161.1	Ca_Kabuli_Chr02	32291315	TT	CC	CC	INTERGENIC		
SNP_12021_A_32291332	NC_021161.1	Ca_Kabuli_Chr02	32291332	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12022_A_32291565	NC_021161.1	Ca_Kabuli_Chr02	32291565	AA	GG	GG	INTERGENIC		
SNP_12023_A_32291633	NC_021161.1	Ca_Kabuli_Chr02	32291633	CC	TT	TT	INTERGENIC		
SNP_12024_A_32292210	NC_021161.1	Ca_Kabuli_Chr02	32292210	AA	GG	GG	INTERGENIC		
SNP_12026_A_32296544	NC_021161.1	Ca_Kabuli_Chr02	32296544	TT	CC	CC	INTRON	101496828	leucine-rich repeat receptor-like tyrosine-protein kinase PXC3
SNP_12027_A_32327223	NC_021161.1	Ca_Kabuli_Chr02	32327223	AA	GG	GG	INTRON	101497149	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179
SNP_12028_A_32329175	NC_021161.1	Ca_Kabuli_Chr02	32329175	AA	CC	CC	URR	101497149	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179
SNP_12029_A_32330853	NC_021161.1	Ca_Kabuli_Chr02	32330853	AA	GG	GG	INTERGENIC		
SNP_12031_A_32334151	NC_021161.1	Ca_Kabuli_Chr02	32334151	CC	AA	AA	DRR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12032_A_32334152	NC_021161.1	Ca_Kabuli_Chr02	32334152	GG	AA	AA	DRR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12033_A_32339308	NC_021161.1	Ca_Kabuli_Chr02	32339308	TT	GG	GG	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12034_A_32339336	NC_021161.1	Ca_Kabuli_Chr02	32339336	AA	GG	GG	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12035_A_32339337	NC_021161.1	Ca_Kabuli_Chr02	32339337	TT	CC	CC	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12036_A_32339640	NC_021161.1	Ca_Kabuli_Chr02	32339640	TT	AA	AA	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12037_A_32339644	NC_021161.1	Ca_Kabuli_Chr02	32339644	CC	TT	TT	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12038_A_32339645	NC_021161.1	Ca_Kabuli_Chr02	32339645	CC	GG	GG	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12039_A_32339712	NC_021161.1	Ca_Kabuli_Chr02	32339712	CC	TT	TT	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12040_A_32339824	NC_021161.1	Ca_Kabuli_Chr02	32339824	TT	CC	CC	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12041_A_32339911	NC_021161.1	Ca_Kabuli_Chr02	32339911	CC	TT	TT	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12042_A_32339964	NC_021161.1	Ca_Kabuli_Chr02	32339964	TT	CC	CC	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12043_A_32340050	NC_021161.1	Ca_Kabuli_Chr02	32340050	GG	AA	AA	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12044_A_32340108	NC_021161.1	Ca_Kabuli_Chr02	32340108	TT	CC	CC	URR	101497482	probable LRR receptor-like serine/threonine-protein kinase At4g36180
SNP_12047_A_32347231	NC_021161.1	Ca_Kabuli_Chr02	32347231	GG	TT	TT	INTRON	101498012	uncharacterized LOC101498012

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12048_A_32347232	NC_021161.1	Ca_Kabuli_Chr02	32347232	CC	TT	TT	INTRON	101498012	uncharacterized LOC101498012
SNP_12049_A_32351741	NC_021161.1	Ca_Kabuli_Chr02	32351741	AA	GG	GG	INTERGENIC		
SNP_12050_A_32351821	NC_021161.1	Ca_Kabuli_Chr02	32351821	TT	CC	CC	INTERGENIC		
SNP_12052_A_32353330	NC_021161.1	Ca_Kabuli_Chr02	32353330	GG	AA	AA	DRR	101491506	receptor-like protein 12
SNP_12053_A_32353341	NC_021161.1	Ca_Kabuli_Chr02	32353341	GG	TT	TT	DRR	101491506	receptor-like protein 12
SNP_12054_A_32353400	NC_021161.1	Ca_Kabuli_Chr02	32353400	CC	TT	TT	DRR	101491506	receptor-like protein 12
SNP_12057_A_32357822	NC_021161.1	Ca_Kabuli_Chr02	32357822	TT	CC	CC	INTERGENIC		
SNP_12058_A_32357887	NC_021161.1	Ca_Kabuli_Chr02	32357887	TT	GG	GG	INTERGENIC		
SNP_12059_A_32357931	NC_021161.1	Ca_Kabuli_Chr02	32357931	CC	TT	TT	INTERGENIC		
SNP_12060_A_32358220	NC_021161.1	Ca_Kabuli_Chr02	32358220	AA	TT	TT	INTRON	101491506	receptor-like protein 12
SNP_12061_A_32358250	NC_021161.1	Ca_Kabuli_Chr02	32358250	GG	AA	AA	INTRON	101491506	receptor-like protein 12
SNP_12063_A_32360108	NC_021161.1	Ca_Kabuli_Chr02	32360108	AA	GG	GG	URR	101491506	receptor-like protein 12
SNP_12064_A_32360166	NC_021161.1	Ca_Kabuli_Chr02	32360166	AA	TT	TT	URR	101491506	receptor-like protein 12
SNP_12065_A_32362420	NC_021161.1	Ca_Kabuli_Chr02	32362420	TT	GG	GG	INTERGENIC		
SNP_12066_A_32362464	NC_021161.1	Ca_Kabuli_Chr02	32362464	AA	GG	GG	INTERGENIC		
SNP_12068_A_32365533	NC_021161.1	Ca_Kabuli_Chr02	32365533	TT	AA	AA	INTERGENIC		
SNP_12069_A_32366277	NC_021161.1	Ca_Kabuli_Chr02	32366277	GG	CC	CC	INTERGENIC		
SNP_12070_A_32368521	NC_021161.1	Ca_Kabuli_Chr02	32368521	GG	AA	AA	INTERGENIC		
SNP_12071_A_32369529	NC_021161.1	Ca_Kabuli_Chr02	32369529	CC	TT	TT	INTERGENIC		
SNP_12073_A_32369855	NC_021161.1	Ca_Kabuli_Chr02	32369855	CC	TT	TT	INTERGENIC		
SNP_12074_A_32369867	NC_021161.1	Ca_Kabuli_Chr02	32369867	AA	CC	CC	INTERGENIC		
SNP_12075_A_32370005	NC_021161.1	Ca_Kabuli_Chr02	32370005	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12076_A_32370088	NC_021161.1	Ca_Kabuli_Chr02	32370088	AA	CC	CC	INTERGENIC		
SNP_12077_A_32370345	NC_021161.1	Ca_Kabuli_Chr02	32370345	AA	TT	TT	INTERGENIC		
SNP_12078_A_32371653	NC_021161.1	Ca_Kabuli_Chr02	32371653	TT	AA	AA	INTERGENIC		
SNP_12079_A_32371920	NC_021161.1	Ca_Kabuli_Chr02	32371920	CC	AA	AA	INTERGENIC		
SNP_12080_A_32372441	NC_021161.1	Ca_Kabuli_Chr02	32372441	AA	TT	TT	INTERGENIC		
SNP_12081_A_32372442	NC_021161.1	Ca_Kabuli_Chr02	32372442	CC	TT	TT	INTERGENIC		
SNP_12082_A_32372443	NC_021161.1	Ca_Kabuli_Chr02	32372443	CC	TT	TT	INTERGENIC		
SNP_12083_A_32372489	NC_021161.1	Ca_Kabuli_Chr02	32372489	TT	AA	AA	INTERGENIC		
SNP_12084_A_32372947	NC_021161.1	Ca_Kabuli_Chr02	32372947	AA	GG	GG	INTERGENIC		
SNP_12085_A_32372956	NC_021161.1	Ca_Kabuli_Chr02	32372956	CC	TT	TT	INTERGENIC		
SNP_12086_A_32373321	NC_021161.1	Ca_Kabuli_Chr02	32373321	CC	TT	TT	INTERGENIC		
SNP_12087_A_32375458	NC_021161.1	Ca_Kabuli_Chr02	32375458	GG	AA	AA	SYNONYMOUS_CODING	101491819	exosome complex component RRP40-like
SNP_12088_A_32376874	NC_021161.1	Ca_Kabuli_Chr02	32376874	CC	TT	TT	INTRON	101491819	exosome complex component RRP40-like
SNP_12090_A_32379088	NC_021161.1	Ca_Kabuli_Chr02	32379088	CC	GG	GG	URR	101491819	exosome complex component RRP40-like
SNP_12091_A_32379091	NC_021161.1	Ca_Kabuli_Chr02	32379091	GG	AA	AA	URR	101491819	exosome complex component RRP40-like
SNP_12092_A_32379123	NC_021161.1	Ca_Kabuli_Chr02	32379123	GG	AA	AA	URR	101491819	exosome complex component RRP40-like
SNP_12093_A_32379536	NC_021161.1	Ca_Kabuli_Chr02	32379536	GG	AA	AA	URR	101491819	exosome complex component RRP40-like
SNP_12094_A_32379555	NC_021161.1	Ca_Kabuli_Chr02	32379555	GG	AA	AA	URR	101491819	exosome complex component RRP40-like
SNP_12097_A_32380409	NC_021161.1	Ca_Kabuli_Chr02	32380409	TT	CC	CC	URR	101491819	exosome complex component RRP40-like
SNP_12098_A_32389153	NC_021161.1	Ca_Kabuli_Chr02	32389153	AA	GG	GG	INTRON	101498343	uncharacterized LOC101498343
SNP_12099_A_32389199	NC_021161.1	Ca_Kabuli_Chr02	32389199	CC	TT	TT	INTRON	101498343	uncharacterized LOC101498343
SNP_12100_A_32392558	NC_021161.1	Ca_Kabuli_Chr02	32392558	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12101_A_32392640	NC_021161.1	Ca_Kabuli_Chr02	32392640	GG	CC	CC	INTERGENIC			
SNP_12102_A_32392684	NC_021161.1	Ca_Kabuli_Chr02	32392684	AA	TT	TT	INTERGENIC			
SNP_12103_A_32392693	NC_021161.1	Ca_Kabuli_Chr02	32392693	TT	GG	GG	INTERGENIC			
SNP_12104_A_32392696	NC_021161.1	Ca_Kabuli_Chr02	32392696	GG	CC	CC	INTERGENIC			
SNP_12105_A_32392749	NC_021161.1	Ca_Kabuli_Chr02	32392749	CC	TT	TT	INTERGENIC			
SNP_12106_A_32392801	NC_021161.1	Ca_Kabuli_Chr02	32392801	TT	CC	CC	INTERGENIC			
SNP_12107_A_32392809	NC_021161.1	Ca_Kabuli_Chr02	32392809	AA	TT	TT	INTERGENIC			
SNP_12108_A_32392830	NC_021161.1	Ca_Kabuli_Chr02	32392830	GG	AA	AA	INTERGENIC			
SNP_12109_A_32392846	NC_021161.1	Ca_Kabuli_Chr02	32392846	TT	CC	CC	INTERGENIC			
SNP_12110_A_32392893	NC_021161.1	Ca_Kabuli_Chr02	32392893	CC	AA	AA	INTERGENIC			
SNP_12111_A_32392943	NC_021161.1	Ca_Kabuli_Chr02	32392943	AA	GG	GG	INTERGENIC			
SNP_12112_A_32392948	NC_021161.1	Ca_Kabuli_Chr02	32392948	TT	GG	GG	INTERGENIC			
SNP_12113_A_32393014	NC_021161.1	Ca_Kabuli_Chr02	32393014	CC	TT	TT	INTERGENIC			
SNP_12114_A_32393015	NC_021161.1	Ca_Kabuli_Chr02	32393015	GG	TT	TT	INTERGENIC			
SNP_12115_A_32393035	NC_021161.1	Ca_Kabuli_Chr02	32393035	GG	AA	AA	INTERGENIC			
SNP_12117_A_32393075	NC_021161.1	Ca_Kabuli_Chr02	32393075	CC	TT	TT	INTERGENIC			
SNP_12119_A_32393124	NC_021161.1	Ca_Kabuli_Chr02	32393124	AA	GG	GG	INTERGENIC			
SNP_12120_A_32393135	NC_021161.1	Ca_Kabuli_Chr02	32393135	AA	CC	CC	INTERGENIC			
SNP_12122_A_32393364	NC_021161.1	Ca_Kabuli_Chr02	32393364	GG	TT	TT	INTERGENIC			
SNP_12123_A_32393429	NC_021161.1	Ca_Kabuli_Chr02	32393429	GG	AA	AA	INTERGENIC			
SNP_12125_A_32393490	NC_021161.1	Ca_Kabuli_Chr02	32393490	TT	CC	CC	INTERGENIC			
SNP_12126_A_32393509	NC_021161.1	Ca_Kabuli_Chr02	32393509	GG	AA	AA	INTERGENIC			

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SNP_12127_A_32393535	NC_021161.1	Ca_Kabuli_Chr02	32393535	TT	AA	AA	INTERGENIC		
SNP_12128_A_32393539	NC_021161.1	Ca_Kabuli_Chr02	32393539	AA	GG	GG	INTERGENIC		
SNP_12129_A_32393574	NC_021161.1	Ca_Kabuli_Chr02	32393574	GG	TT	TT	INTERGENIC		
SNP_12130_A_32393596	NC_021161.1	Ca_Kabuli_Chr02	32393596	GG	AA	AA	INTERGENIC		
SNP_12133_A_32393670	NC_021161.1	Ca_Kabuli_Chr02	32393670	CC	TT	TT	INTERGENIC		
SNP_12134_A_32396574	NC_021161.1	Ca_Kabuli_Chr02	32396574	TT	CC	CC	DRR	101498685	Unknown function
SNP_12137_A_32404256	NC_021161.1	Ca_Kabuli_Chr02	32404256	AA	TT	TT	INTERGENIC		
SNP_12138_A_32404266	NC_021161.1	Ca_Kabuli_Chr02	32404266	GG	AA	AA	INTERGENIC		
SNP_12140_A_32406465	NC_021161.1	Ca_Kabuli_Chr02	32406465	AA	TT	TT	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12141_A_32406487	NC_021161.1	Ca_Kabuli_Chr02	32406487	CC	TT	TT	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12142_A_32406681	NC_021161.1	Ca_Kabuli_Chr02	32406681	AA	CC	CC	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12143_A_32406696	NC_021161.1	Ca_Kabuli_Chr02	32406696	TT	CC	CC	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12144_A_32406706	NC_021161.1	Ca_Kabuli_Chr02	32406706	TT	CC	CC	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12145_A_32406712	NC_021161.1	Ca_Kabuli_Chr02	32406712	TT	AA	AA	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12146_A_32406713	NC_021161.1	Ca_Kabuli_Chr02	32406713	AA	GG	GG	DRR	101499009	chitin elicitor receptor kinase 1-like
SNP_12147_A_32409967	NC_021161.1	Ca_Kabuli_Chr02	32409967	CC	AA	AA	INTRON	101499009	chitin elicitor receptor kinase 1-like
SNP_12148_A_32411198	NC_021161.1	Ca_Kabuli_Chr02	32411198	CC	GG	GG	NON_SYNONYMOUS_CODING	101499009	chitin elicitor receptor kinase 1-like
SNP_12149_A_32414671	NC_021161.1	Ca_Kabuli_Chr02	32414671	CC	AA	AA	DRR	101499326	chitin elicitor receptor kinase 1-like
SNP_12150_A_32415809	NC_021161.1	Ca_Kabuli_Chr02	32415809	CC	TT	TT	INTERGENIC		
SNP_12151_A_32415818	NC_021161.1	Ca_Kabuli_Chr02	32415818	TT	CC	CC	INTERGENIC		
SNP_12152_A_32416298	NC_021161.1	Ca_Kabuli_Chr02	32416298	TT	CC	CC	INTERGENIC		
SNP_12153_A_32416997	NC_021161.1	Ca_Kabuli_Chr02	32416997	AA	GG	GG	INTRON	101499326	chitin elicitor receptor kinase 1-like

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SNP_12155_A_32417466	NC_021161.1	Ca_Kabuli_Chr02	32417466	GG	AA	AA	INTRON	101499326	chitin elicitor receptor kinase 1-like
SNP_12156_A_32419750	NC_021161.1	Ca_Kabuli_Chr02	32419750	GG	AA	AA	URR	101499326	chitin elicitor receptor kinase 1-like
SNP_12157_A_32420680	NC_021161.1	Ca_Kabuli_Chr02	32420680	AA	CC	CC	URR	101499326	chitin elicitor receptor kinase 1-like
SNP_12158_A_32422076	NC_021161.1	Ca_Kabuli_Chr02	32422076	AA	TT	TT	DRR	101492489	serine/threonine-protein phosphatase 7 long form homolog
SNP_12159_A_32422326	NC_021161.1	Ca_Kabuli_Chr02	32422326	GG	AA	AA	DRR	101492489	serine/threonine-protein phosphatase 7 long form homolog
SNP_12160_A_32422327	NC_021161.1	Ca_Kabuli_Chr02	32422327	CC	TT	TT	DRR	101492489	serine/threonine-protein phosphatase 7 long form homolog
SNP_12161_A_32422343	NC_021161.1	Ca_Kabuli_Chr02	32422343	GG	AA	AA	DRR	101492489	serine/threonine-protein phosphatase 7 long form homolog
SNP_12162_A_32422374	NC_021161.1	Ca_Kabuli_Chr02	32422374	TT	AA	AA	DRR	101492489	serine/threonine-protein phosphatase 7 long form homolog
SNP_12163_A_32423004	NC_021161.1	Ca_Kabuli_Chr02	32423004	CC	TT	TT	URR	101492147	UPF0481 protein At3g47200-like
SNP_12165_A_32430207	NC_021161.1	Ca_Kabuli_Chr02	32430207	TT	CC	CC	INTERGENIC		
SNP_12166_A_32430211	NC_021161.1	Ca_Kabuli_Chr02	32430211	TT	CC	CC	INTERGENIC		
SNP_12168_A_32430261	NC_021161.1	Ca_Kabuli_Chr02	32430261	TT	CC	CC	DRR	101492821	uncharacterized LOC101492821
SNP_12169_A_32430280	NC_021161.1	Ca_Kabuli_Chr02	32430280	TT	GG	GG	DRR	101492821	uncharacterized LOC101492821
SNP_12170_A_32430407	NC_021161.1	Ca_Kabuli_Chr02	32430407	AA	CC	CC	DRR	101492821	uncharacterized LOC101492821
SNP_12172_A_32430539	NC_021161.1	Ca_Kabuli_Chr02	32430539	TT	CC	CC	DRR	101492821	uncharacterized LOC101492821
SNP_12173_A_32430590	NC_021161.1	Ca_Kabuli_Chr02	32430590	TT	CC	CC	DRR	101492821	uncharacterized LOC101492821
SNP_12174_A_32432084	NC_021161.1	Ca_Kabuli_Chr02	32432084	CC	TT	TT	INTERGENIC		
SNP_12175_A_32432394	NC_021161.1	Ca_Kabuli_Chr02	32432394	CC	TT	TT	INTERGENIC		
SNP_12176_A_32432423	NC_021161.1	Ca_Kabuli_Chr02	32432423	TT	CC	CC	INTERGENIC		
SNP_12177_A_32436625	NC_021161.1	Ca_Kabuli_Chr02	32436625	TT	AA	AA	URR	101492821	uncharacterized LOC101492821
SNP_12178_A_32436684	NC_021161.1	Ca_Kabuli_Chr02	32436684	AA	TT	TT	URR	101492821	uncharacterized LOC101492821
SNP_12179_A_32436918	NC_021161.1	Ca_Kabuli_Chr02	32436918	GG	AA	AA	URR	101492821	uncharacterized LOC101492821

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SNP_12180_A_32436922	NC_021161.1	Ca_Kabuli_Chr02	32436922	TT	CC	CC	URR	101492821	uncharacterized LOC101492821
SNP_12181_A_32436953	NC_021161.1	Ca_Kabuli_Chr02	32436953	AA	GG	GG	URR	101492821	uncharacterized LOC101492821
SNP_12182_A_32436976	NC_021161.1	Ca_Kabuli_Chr02	32436976	TT	GG	GG	URR	101492821	uncharacterized LOC101492821
SNP_12183_A_32452902	NC_021161.1	Ca_Kabuli_Chr02	32452902	CC	TT	TT	INTRON	101493150	receptor-like protein 12
SNP_12184_A_32453136	NC_021161.1	Ca_Kabuli_Chr02	32453136	TT	GG	GG	INTRON	101493150	receptor-like protein 12
SNP_12185_A_32475317	NC_021161.1	Ca_Kabuli_Chr02	32475317	AA	GG	GG	SYNONYMOUS_CODING	101493150	receptor-like protein 12
SNP_12186_A_32475327	NC_021161.1	Ca_Kabuli_Chr02	32475327	CC	TT	TT	NON_SYNONYMOUS_CODING	101493150	receptor-like protein 12
SNP_12187_A_32476909	NC_021161.1	Ca_Kabuli_Chr02	32476909	GG	CC	CC	URR	101493150	receptor-like protein 12
SNP_12189_A_32478583	NC_021161.1	Ca_Kabuli_Chr02	32478583	GG	AA	AA	INTERGENIC		
SNP_12190_A_32479255	NC_021161.1	Ca_Kabuli_Chr02	32479255	CC	TT	TT	INTERGENIC		
SNP_12191_A_32479266	NC_021161.1	Ca_Kabuli_Chr02	32479266	AA	GG	GG	INTERGENIC		
SNP_12192_A_32479272	NC_021161.1	Ca_Kabuli_Chr02	32479272	TT	AA	AA	INTERGENIC		
SNP_12193_A_32480615	NC_021161.1	Ca_Kabuli_Chr02	32480615	GG	AA	AA	DRR	101499643	CSC1-like protein At3g21620
SNP_12195_A_32480830	NC_021161.1	Ca_Kabuli_Chr02	32480830	CC	TT	TT	DRR	101499643	CSC1-like protein At3g21620
SNP_12196_A_32480985	NC_021161.1	Ca_Kabuli_Chr02	32480985	AA	TT	TT	DRR	101499643	CSC1-like protein At3g21620
SNP_12198_A_32481004	NC_021161.1	Ca_Kabuli_Chr02	32481004	TT	CC	CC	DRR	101499643	CSC1-like protein At3g21620
SNP_12200_A_32493025	NC_021161.1	Ca_Kabuli_Chr02	32493025	GG	AA	AA	INTERGENIC		
SNP_12201_A_32526117	NC_021161.1	Ca_Kabuli_Chr02	32526117	CC	TT	TT	INTERGENIC		
SNP_12202_A_32540967	NC_021161.1	Ca_Kabuli_Chr02	32540967	CC	AA	AA	INTERGENIC		
SNP_12203_A_32599948	NC_021161.1	Ca_Kabuli_Chr02	32599948	CC	GG	GG	INTERGENIC		
SNP_12204_A_32599949	NC_021161.1	Ca_Kabuli_Chr02	32599949	CC	GG	GG	INTERGENIC		
SNP_12205_A_32642456	NC_021161.1	Ca_Kabuli_Chr02	32642456	AA	TT	TT	URR	101503908	uncharacterized LOC101503908

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12207_A_32643409	NC_021161.1	Ca_Kabuli_Chr02	32643409	TT	CC	CC	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12208_A_32644190	NC_021161.1	Ca_Kabuli_Chr02	32644190	TT	CC	CC	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12209_A_32644375	NC_021161.1	Ca_Kabuli_Chr02	32644375	AA	GG	GG	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12210_A_32644380	NC_021161.1	Ca_Kabuli_Chr02	32644380	AA	CC	CC	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12211_A_32644402	NC_021161.1	Ca_Kabuli_Chr02	32644402	AA	TT	TT	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12212_A_32644438	NC_021161.1	Ca_Kabuli_Chr02	32644438	GG	TT	TT	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12213_A_32644552	NC_021161.1	Ca_Kabuli_Chr02	32644552	CC	GG	GG	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12214_A_32644806	NC_021161.1	Ca_Kabuli_Chr02	32644806	TT	GG	GG	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12215_A_32644818	NC_021161.1	Ca_Kabuli_Chr02	32644818	GG	AA	AA	URR	101504441	22.7 kDa class IV heat shock protein
SNP_12216_A_32645928	NC_021161.1	Ca_Kabuli_Chr02	32645928	GG	AA	AA	INTERGENIC		
SNP_12217_A_32645929	NC_021161.1	Ca_Kabuli_Chr02	32645929	CC	TT	TT	INTERGENIC		
SNP_12218_A_32645940	NC_021161.1	Ca_Kabuli_Chr02	32645940	GG	AA	AA	INTERGENIC		
SNP_12219_A_32646090	NC_021161.1	Ca_Kabuli_Chr02	32646090	CC	TT	TT	INTERGENIC		
SNP_12220_A_32648324	NC_021161.1	Ca_Kabuli_Chr02	32648324	CC	TT	TT	DRR	101504756	inactive protein RESTRICTED TEV MOVEMENT 2
SNP_12223_A_32726922	NC_021161.1	Ca_Kabuli_Chr02	32726922	CC	TT	TT	INTERGENIC		
SNP_12224_A_32752549	NC_021161.1	Ca_Kabuli_Chr02	32752549	AA	TT	TT	DRR	101508101	very-long-chain enoyl-CoA reductase-like
SNP_12225_A_32774922	NC_021161.1	Ca_Kabuli_Chr02	32774922	CC	TT	TT	URR	101509248	uncharacterized LOC101509248
SNP_12226_A_32805557	NC_021161.1	Ca_Kabuli_Chr02	32805557	TT	CC	CC	INTERGENIC		
SNP_12227_A_32819380	NC_021161.1	Ca_Kabuli_Chr02	32819380	AA	CC	CC	INTERGENIC		
SNP_12229_A_32915039	NC_021161.1	Ca_Kabuli_Chr02	32915039	GG	AA	AA	INTERGENIC		
SNP_12230_A_32915145	NC_021161.1	Ca_Kabuli_Chr02	32915145	AA	TT	TT	INTERGENIC		
SNP_12231_A_33115816	NC_021161.1	Ca_Kabuli_Chr02	33115816	AA	GG	GG	DRR	101495399	cysteine proteinase inhibitor-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12232_A_33116207	NC_021161.1	Ca_Kabuli_Chr02	33116207	GG	AA	AA	INTERGENIC		
SNP_12233_A_33151940	NC_021161.1	Ca_Kabuli_Chr02	33151940	TT	GG	GG	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12234_A_33151950	NC_021161.1	Ca_Kabuli_Chr02	33151950	GG	TT	TT	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12235_A_33152001	NC_021161.1	Ca_Kabuli_Chr02	33152001	CC	AA	AA	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12236_A_33152077	NC_021161.1	Ca_Kabuli_Chr02	33152077	GG	TT	TT	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12237_A_33152162	NC_021161.1	Ca_Kabuli_Chr02	33152162	AA	GG	GG	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12238_A_33152231	NC_021161.1	Ca_Kabuli_Chr02	33152231	AA	TT	TT	URR	101497025	G2/mitotic-specific cyclin S13-7
SNP_12239_A_33166132	NC_021161.1	Ca_Kabuli_Chr02	33166132	TT	CC	CC	DRR	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12240_A_33166160	NC_021161.1	Ca_Kabuli_Chr02	33166160	TT	CC	CC	DRR	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12241_A_33166192	NC_021161.1	Ca_Kabuli_Chr02	33166192	GG	AA	AA	DRR	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12242_A_33166240	NC_021161.1	Ca_Kabuli_Chr02	33166240	AA	GG	GG	SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12243_A_33166434	NC_021161.1	Ca_Kabuli_Chr02	33166434	TT	CC	CC	NON_SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12244_A_33166485	NC_021161.1	Ca_Kabuli_Chr02	33166485	GG	TT	TT	NON_SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12245_A_33166525	NC_021161.1	Ca_Kabuli_Chr02	33166525	GG	AA	AA	SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12246_A_33166535	NC_021161.1	Ca_Kabuli_Chr02	33166535	CC	GG	GG	NON_SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12247_A_33166561	NC_021161.1	Ca_Kabuli_Chr02	33166561	CC	TT	TT	SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12248_A_33166563	NC_021161.1	Ca_Kabuli_Chr02	33166563	AA	CC	CC	NON_SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12249_A_33166570	NC_021161.1	Ca_Kabuli_Chr02	33166570	GG	AA	AA	SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12250_A_33166582	NC_021161.1	Ca_Kabuli_Chr02	33166582	CC	AA	AA	SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12251_A_33166704	NC_021161.1	Ca_Kabuli_Chr02	33166704	CC	TT	TT	NON_SYNONYMOUS_CODING	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12252_A_33167008	NC_021161.1	Ca_Kabuli_Chr02	33167008	AA	GG	GG	URR	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12253_A_33167107	NC_021161.1	Ca_Kabuli_Chr02	33167107	AA	CC	CC	URR	101496386	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12254_A_33167116	NC_021161.1	Ca_Kabuli_Chr02	33167116	AA	GG	GG	URR	101496386	probable CCR4-associated factor 1 homolog 11
SNP_12255_A_33218507	NC_021161.1	Ca_Kabuli_Chr02	33218507	AA	GG	GG	INTERGENIC		
SNP_12256_A_33243537	NC_021161.1	Ca_Kabuli_Chr02	33243537	TT	CC	CC	DRR	101499224	uncharacterized LOC101499224
SNP_12258_A_33269338	NC_021161.1	Ca_Kabuli_Chr02	33269338	GG	TT	TT	URR	101496717	uncharacterized LOC101496717
SNP_12259_A_33269410	NC_021161.1	Ca_Kabuli_Chr02	33269410	AA	GG	GG	URR	101496717	uncharacterized LOC101496717
SNP_12260_A_33269694	NC_021161.1	Ca_Kabuli_Chr02	33269694	CC	TT	TT	URR	101496717	uncharacterized LOC101496717
SNP_12262_A_33320209	NC_021161.1	Ca_Kabuli_Chr02	33320209	TT	CC	CC	INTERGENIC		
SNP_12263_A_33320212	NC_021161.1	Ca_Kabuli_Chr02	33320212	AA	CC	CC	INTERGENIC		
SNP_12264_A_33345383	NC_021161.1	Ca_Kabuli_Chr02	33345383	AA	GG	GG	INTERGENIC		
SNP_12265_A_33345575	NC_021161.1	Ca_Kabuli_Chr02	33345575	AA	GG	GG	INTERGENIC		
SNP_12266_A_33345581	NC_021161.1	Ca_Kabuli_Chr02	33345581	GG	AA	AA	INTERGENIC		
SNP_12268_A_33345682	NC_021161.1	Ca_Kabuli_Chr02	33345682	CC	TT	TT	INTERGENIC		
SNP_12269_A_33345764	NC_021161.1	Ca_Kabuli_Chr02	33345764	GG	AA	AA	INTERGENIC		
SNP_12270_A_33345775	NC_021161.1	Ca_Kabuli_Chr02	33345775	GG	TT	TT	INTERGENIC		
SNP_12271_A_33346395	NC_021161.1	Ca_Kabuli_Chr02	33346395	AA	TT	TT	INTERGENIC		
SNP_12272_A_33346444	NC_021161.1	Ca_Kabuli_Chr02	33346444	AA	GG	GG	INTERGENIC		
SNP_12273_A_33346452	NC_021161.1	Ca_Kabuli_Chr02	33346452	GG	AA	AA	INTERGENIC		
SNP_12275_A_33346816	NC_021161.1	Ca_Kabuli_Chr02	33346816	GG	TT	TT	INTERGENIC		
SNP_12276_A_33346860	NC_021161.1	Ca_Kabuli_Chr02	33346860	AA	CC	CC	INTERGENIC		
SNP_12277_A_33346903	NC_021161.1	Ca_Kabuli_Chr02	33346903	AA	GG	GG	INTERGENIC		
SNP_12278_A_33346949	NC_021161.1	Ca_Kabuli_Chr02	33346949	GG	AA	AA	INTERGENIC		
SNP_12279_A_33347171	NC_021161.1	Ca_Kabuli_Chr02	33347171	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12280_A_33397468	NC_021161.1	Ca_Kabuli_Chr02	33397468	AA	TT	TT	DRR	101504229	putative disease resistance protein At3g14460
SNP_12282_A_33398527	NC_021161.1	Ca_Kabuli_Chr02	33398527	GG	TT	TT	DRR	101504229	putative disease resistance protein At3g14460
SNP_12283_A_33398549	NC_021161.1	Ca_Kabuli_Chr02	33398549	CC	TT	TT	DRR	101504229	putative disease resistance protein At3g14460
SNP_12284_A_33398550	NC_021161.1	Ca_Kabuli_Chr02	33398550	AA	GG	GG	DRR	101504229	putative disease resistance protein At3g14460
SNP_12285_A_33398561	NC_021161.1	Ca_Kabuli_Chr02	33398561	CC	TT	TT	DRR	101504229	putative disease resistance protein At3g14460
SNP_12286_A_33401553	NC_021161.1	Ca_Kabuli_Chr02	33401553	GG	AA	AA	NON_SYNONYMOUS_CODING	101504229	putative disease resistance protein At3g14460
SNP_12287_A_33404571	NC_021161.1	Ca_Kabuli_Chr02	33404571	CC	TT	TT	URR	101504229	putative disease resistance protein At3g14460
SNP_12289_A_33405265	NC_021161.1	Ca_Kabuli_Chr02	33405265	GG	AA	AA	INTERGENIC		
SNP_12290_A_33405469	NC_021161.1	Ca_Kabuli_Chr02	33405469	AA	GG	GG	INTERGENIC		
SNP_12291_A_33418452	NC_021161.1	Ca_Kabuli_Chr02	33418452	GG	AA	AA	INTERGENIC		
SNP_12292_A_33424021	NC_021161.1	Ca_Kabuli_Chr02	33424021	CC	AA	AA	INTERGENIC		
SNP_12293_A_33462805	NC_021161.1	Ca_Kabuli_Chr02	33462805	AA	GG	GG	INTERGENIC		
SNP_12294_A_33462911	NC_021161.1	Ca_Kabuli_Chr02	33462911	GG	TT	TT	INTERGENIC		
SNP_12295_A_33463060	NC_021161.1	Ca_Kabuli_Chr02	33463060	CC	GG	GG	INTERGENIC		
SNP_12296_A_33465922	NC_021161.1	Ca_Kabuli_Chr02	33465922	TT	GG	GG	INTERGENIC		
SNP_12297_A_33483361	NC_021161.1	Ca_Kabuli_Chr02	33483361	AA	GG	GG	INTERGENIC		
SNP_12298_A_33483364	NC_021161.1	Ca_Kabuli_Chr02	33483364	AA	CC	CC	INTERGENIC		
SNP_12299_A_33542104	NC_021161.1	Ca_Kabuli_Chr02	33542104	AA	GG	GG	INTERGENIC		
SNP_12300_A_33585775	NC_021161.1	Ca_Kabuli_Chr02	33585775	TT	GG	GG	INTERGENIC		
SNP_12301_A_33585801	NC_021161.1	Ca_Kabuli_Chr02	33585801	AA	TT	TT	INTERGENIC		
SNP_12304_A_33761577	NC_021161.1	Ca_Kabuli_Chr02	33761577	GG	AA	AA	DRR	101512267	N-acetyl-D-glucosamine kinase
SNP_12306_A_33955534	NC_021161.1	Ca_Kabuli_Chr02	33955534	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12308_A_33959804	NC_021161.1	Ca_Kabuli_Chr02	33959804	TT	CC	CC	INTERGENIC		
SNP_12309_A_33959859	NC_021161.1	Ca_Kabuli_Chr02	33959859	CC	TT	TT	INTERGENIC		
SNP_12310_A_33961729	NC_021161.1	Ca_Kabuli_Chr02	33961729	GG	AA	AA	DRR	101499328	zinc finger CCH domain-containing protein 41-like
SNP_12311_A_33984158	NC_021161.1	Ca_Kabuli_Chr02	33984158	GG	TT	TT	INTRON	101499644	Unknown function
SNP_12312_A_33984200	NC_021161.1	Ca_Kabuli_Chr02	33984200	TT	AA	AA	INTRON	101499644	Unknown function
SNP_12313_A_33984237	NC_021161.1	Ca_Kabuli_Chr02	33984237	CC	TT	TT	INTRON	101499644	Unknown function
SNP_12314_A_33984260	NC_021161.1	Ca_Kabuli_Chr02	33984260	AA	GG	GG	INTRON	101499644	Unknown function
SNP_12316_A_33984388	NC_021161.1	Ca_Kabuli_Chr02	33984388	GG	CC	CC	INTRON	101499644	Unknown function
SNP_12317_A_33984402	NC_021161.1	Ca_Kabuli_Chr02	33984402	GG	AA	AA	INTRON	101499644	Unknown function
SNP_12318_A_33984409	NC_021161.1	Ca_Kabuli_Chr02	33984409	AA	TT	TT	INTRON	101499644	Unknown function
SNP_12319_A_33984416	NC_021161.1	Ca_Kabuli_Chr02	33984416	CC	TT	TT	INTRON	101499644	Unknown function
SNP_12320_A_33984453	NC_021161.1	Ca_Kabuli_Chr02	33984453	TT	CC	CC	INTRON	101499644	Unknown function
SNP_12321_A_33984502	NC_021161.1	Ca_Kabuli_Chr02	33984502	GG	AA	AA	INTRON	101499644	Unknown function
SNP_12322_A_33984568	NC_021161.1	Ca_Kabuli_Chr02	33984568	TT	GG	GG	INTRON	101499644	Unknown function
SNP_12323_A_33984576	NC_021161.1	Ca_Kabuli_Chr02	33984576	TT	GG	GG	INTRON	101499644	Unknown function
SNP_12324_A_33984580	NC_021161.1	Ca_Kabuli_Chr02	33984580	AA	TT	TT	INTRON	101499644	Unknown function
SNP_12325_A_33984585	NC_021161.1	Ca_Kabuli_Chr02	33984585	TT	GG	GG	INTRON	101499644	Unknown function
SNP_12326_A_33984598	NC_021161.1	Ca_Kabuli_Chr02	33984598	AA	CC	CC	INTRON	101499644	Unknown function
SNP_12327_A_33984614	NC_021161.1	Ca_Kabuli_Chr02	33984614	AA	TT	TT	INTRON	101499644	Unknown function
SNP_12328_A_33984681	NC_021161.1	Ca_Kabuli_Chr02	33984681	AA	TT	TT	INTRON	101499644	Unknown function
SNP_12329_A_33985356	NC_021161.1	Ca_Kabuli_Chr02	33985356	GG	AA	AA	INTRON	101499644	Unknown function
SNP_12330_A_33985612	NC_021161.1	Ca_Kabuli_Chr02	33985612	GG	AA	AA	INTRON	101499644	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12331_A_33986315	NC_021161.1	Ca_Kabuli_Chr02	33986315	TT	GG	GG	INTRON	101499644	Unknown function
SNP_12332_A_33986317	NC_021161.1	Ca_Kabuli_Chr02	33986317	TT	CC	CC	INTRON	101499644	Unknown function
SNP_12333_A_33986335	NC_021161.1	Ca_Kabuli_Chr02	33986335	TT	CC	CC	INTRON	101499644	Unknown function
SNP_12334_A_33986566	NC_021161.1	Ca_Kabuli_Chr02	33986566	AA	GG	GG	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12336_A_33986629	NC_021161.1	Ca_Kabuli_Chr02	33986629	AA	TT	TT	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12337_A_33986683	NC_021161.1	Ca_Kabuli_Chr02	33986683	CC	TT	TT	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12338_A_33986688	NC_021161.1	Ca_Kabuli_Chr02	33986688	TT	AA	CC	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12339_A_33986714	NC_021161.1	Ca_Kabuli_Chr02	33986714	AA	TT	TT	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12340_A_33986740	NC_021161.1	Ca_Kabuli_Chr02	33986740	CC	TT	TT	NON_SYNONYMOUS_CODING	101499644	Unknown function
SNP_12341_A_33986819	NC_021161.1	Ca_Kabuli_Chr02	33986819	AA	TT	TT	URR	101499644	Unknown function
SNP_12342_A_33986828	NC_021161.1	Ca_Kabuli_Chr02	33986828	AA	GG	GG	URR	101499644	Unknown function
SNP_12343_A_33986838	NC_021161.1	Ca_Kabuli_Chr02	33986838	GG	AA	AA	URR	101499644	Unknown function
SNP_12344_A_33986845	NC_021161.1	Ca_Kabuli_Chr02	33986845	TT	GG	GG	URR	101499644	Unknown function
SNP_12345_A_33986923	NC_021161.1	Ca_Kabuli_Chr02	33986923	AA	TT	TT	URR	101499644	Unknown function
SNP_12346_A_34022954	NC_021161.1	Ca_Kabuli_Chr02	34022954	GG	AA	AA	INTERGENIC		
SNP_12347_A_34025175	NC_021161.1	Ca_Kabuli_Chr02	34025175	AA	TT	TT	URR	101493152	Unknown function
SNP_12348_A_34025270	NC_021161.1	Ca_Kabuli_Chr02	34025270	TT	CC	CC	URR	101493152	Unknown function
SNP_12349_A_34025286	NC_021161.1	Ca_Kabuli_Chr02	34025286	TT	CC	CC	URR	101493152	Unknown function
SNP_12350_A_34025330	NC_021161.1	Ca_Kabuli_Chr02	34025330	AA	TT	TT	URR	101493152	Unknown function
SNP_12351_A_34025637	NC_021161.1	Ca_Kabuli_Chr02	34025637	TT	CC	CC	URR	101493152	Unknown function
SNP_12352_A_34028460	NC_021161.1	Ca_Kabuli_Chr02	34028460	AA	CC	CC	INTERGENIC		
SNP_12353_A_34028465	NC_021161.1	Ca_Kabuli_Chr02	34028465	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12354_A_34028525	NC_021161.1	Ca_Kabuli_Chr02	34028525	AA	TT	TT	INTERGENIC		
SNP_12355_A_34028549	NC_021161.1	Ca_Kabuli_Chr02	34028549	CC	AA	AA	INTERGENIC		
SNP_12356_A_34028572	NC_021161.1	Ca_Kabuli_Chr02	34028572	AA	TT	TT	INTERGENIC		
SNP_12357_A_34028751	NC_021161.1	Ca_Kabuli_Chr02	34028751	TT	CC	CC	INTERGENIC		
SNP_12359_A_34054646	NC_021161.1	Ca_Kabuli_Chr02	34054646	GG	AA	AA	INTERGENIC		
SNP_12360_A_34054932	NC_021161.1	Ca_Kabuli_Chr02	34054932	AA	TT	TT	INTERGENIC		
SNP_12361_A_34061593	NC_021161.1	Ca_Kabuli_Chr02	34061593	CC	AA	AA	INTERGENIC		
SNP_12362_A_34065051	NC_021161.1	Ca_Kabuli_Chr02	34065051	CC	GG	GG	INTERGENIC		
SNP_12363_A_34076126	NC_021161.1	Ca_Kabuli_Chr02	34076126	AA	CC	CC	INTERGENIC		
SNP_12364_A_34081564	NC_021161.1	Ca_Kabuli_Chr02	34081564	GG	AA	AA	DRR	101494747	Unknown function
SNP_12365_A_34086029	NC_021161.1	Ca_Kabuli_Chr02	34086029	CC	TT	TT	INTERGENIC		
SNP_12366_A_34086035	NC_021161.1	Ca_Kabuli_Chr02	34086035	CC	GG	GG	INTERGENIC		
SNP_12367_A_34086050	NC_021161.1	Ca_Kabuli_Chr02	34086050	GG	AA	AA	INTERGENIC		
SNP_12368_A_34086056	NC_021161.1	Ca_Kabuli_Chr02	34086056	TT	CC	CC	INTERGENIC		
SNP_12369_A_34086179	NC_021161.1	Ca_Kabuli_Chr02	34086179	CC	GG	AA	INTERGENIC		
SNP_12370_A_34086188	NC_021161.1	Ca_Kabuli_Chr02	34086188	GG	AA	AA	INTERGENIC		
SNP_12371_A_34086198	NC_021161.1	Ca_Kabuli_Chr02	34086198	TT	CC	CC	INTERGENIC		
SNP_12372_A_34086534	NC_021161.1	Ca_Kabuli_Chr02	34086534	TT	CC	CC	INTERGENIC		
SNP_12373_A_34086616	NC_021161.1	Ca_Kabuli_Chr02	34086616	CC	GG	GG	INTERGENIC		
SNP_12374_A_34087085	NC_021161.1	Ca_Kabuli_Chr02	34087085	TT	CC	CC	INTERGENIC		
SNP_12375_A_34090102	NC_021161.1	Ca_Kabuli_Chr02	34090102	CC	TT	TT	INTERGENIC		
SNP_12376_A_34164814	NC_021161.1	Ca_Kabuli_Chr02	34164814	GG	AA	AA	URR	101503806	4-hydroxyphenylpyruvate dioxygenase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12377_A_34295084	NC_021161.1	Ca_Kabuli_Chr02	34295084	GG	AA	AA	INTERGENIC			
SNP_12378_A_34353800	NC_021161.1	Ca_Kabuli_Chr02	34353800	CC	TT	TT	INTERGENIC			
SNP_12380_A_34354082	NC_021161.1	Ca_Kabuli_Chr02	34354082	TT	CC	CC	INTERGENIC			
SNP_12381_A_34354372	NC_021161.1	Ca_Kabuli_Chr02	34354372	GG	TT	TT	INTERGENIC			
SNP_12382_A_34354616	NC_021161.1	Ca_Kabuli_Chr02	34354616	GG	AA	AA	INTERGENIC			
SNP_12383_A_34354632	NC_021161.1	Ca_Kabuli_Chr02	34354632	AA	TT	TT	INTERGENIC			
SNP_12384_A_34355149	NC_021161.1	Ca_Kabuli_Chr02	34355149	GG	CC	CC	URR		101497026	Unknown function
SNP_12387_A_34355499	NC_021161.1	Ca_Kabuli_Chr02	34355499	TT	AA	AA	URR		101497026	Unknown function
SNP_12388_A_34355549	NC_021161.1	Ca_Kabuli_Chr02	34355549	AA	TT	TT	URR		101497026	Unknown function
SNP_12389_A_34355603	NC_021161.1	Ca_Kabuli_Chr02	34355603	AA	GG	GG	URR		101497026	Unknown function
SNP_12390_A_34355804	NC_021161.1	Ca_Kabuli_Chr02	34355804	AA	GG	GG	URR		101497026	Unknown function
SNP_12391_A_34355956	NC_021161.1	Ca_Kabuli_Chr02	34355956	CC	TT	TT	URR		101497026	Unknown function
SNP_12392_A_34357798	NC_021161.1	Ca_Kabuli_Chr02	34357798	TT	GG	GG	DRR		101497356	probable xyloglucan endotransglucosylase/hydrolase protein 16
SNP_12393_A_34357881	NC_021161.1	Ca_Kabuli_Chr02	34357881	AA	TT	TT	SYNONYMOUS_CODING		101497356	probable xyloglucan endotransglucosylase/hydrolase protein 16
SNP_12394_A_34449469	NC_021161.1	Ca_Kabuli_Chr02	34449469	GG	AA	AA	URR		101515297	probable LRR receptor-like serine/threonine-protein kinase At1g07650
SNP_12397_A_34515994	NC_021161.1	Ca_Kabuli_Chr02	34515994	TT	GG	GG	INTERGENIC			
SNP_12398_A_34566633	NC_021161.1	Ca_Kabuli_Chr02	34566633	TT	CC	CC	URR		101500294	glucose-6-phosphate/phosphate translocator 1, chloroplastic
SNP_12399_A_34566908	NC_021161.1	Ca_Kabuli_Chr02	34566908	CC	TT	TT	URR		101500294	glucose-6-phosphate/phosphate translocator 1, chloroplastic
SNP_12400_A_34567061	NC_021161.1	Ca_Kabuli_Chr02	34567061	AA	TT	TT	URR		101500294	glucose-6-phosphate/phosphate translocator 1, chloroplastic
SNP_12402_A_34669279	NC_021161.1	Ca_Kabuli_Chr02	34669279	CC	TT	TT	INTERGENIC			
SNP_12403_A_34683522	NC_021161.1	Ca_Kabuli_Chr02	34683522	TT	AA	AA	INTERGENIC			
SNP_12404_A_34683539	NC_021161.1	Ca_Kabuli_Chr02	34683539	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12405_A_34683739	NC_021161.1	Ca_Kabuli_Chr02	34683739	AA	CC	CC	INTERGENIC			
SNP_12407_A_34683876	NC_021161.1	Ca_Kabuli_Chr02	34683876	AA	GG	GG	INTERGENIC			
SNP_12408_A_34683889	NC_021161.1	Ca_Kabuli_Chr02	34683889	AA	TT	TT	INTERGENIC			
SNP_12409_A_34683928	NC_021161.1	Ca_Kabuli_Chr02	34683928	TT	AA	AA	INTERGENIC			
SNP_12410_A_34683949	NC_021161.1	Ca_Kabuli_Chr02	34683949	CC	AA	AA	INTERGENIC			
SNP_12411_A_34684026	NC_021161.1	Ca_Kabuli_Chr02	34684026	TT	CC	CC	INTERGENIC			
SNP_12412_A_34684048	NC_021161.1	Ca_Kabuli_Chr02	34684048	CC	TT	TT	INTERGENIC			
SNP_12413_A_34684138	NC_021161.1	Ca_Kabuli_Chr02	34684138	GG	AA	AA	INTERGENIC			
SNP_12414_A_34684183	NC_021161.1	Ca_Kabuli_Chr02	34684183	AA	GG	GG	INTERGENIC			
SNP_12415_A_34684216	NC_021161.1	Ca_Kabuli_Chr02	34684216	AA	GG	GG	INTERGENIC			
SNP_12416_A_34684222	NC_021161.1	Ca_Kabuli_Chr02	34684222	GG	AA	AA	INTERGENIC			
SNP_12417_A_34684251	NC_021161.1	Ca_Kabuli_Chr02	34684251	GG	TT	TT	INTERGENIC			
SNP_12418_A_34684271	NC_021161.1	Ca_Kabuli_Chr02	34684271	AA	TT	TT	INTERGENIC			
SNP_12419_A_34684276	NC_021161.1	Ca_Kabuli_Chr02	34684276	AA	GG	GG	INTERGENIC			
SNP_12420_A_34684296	NC_021161.1	Ca_Kabuli_Chr02	34684296	AA	GG	GG	INTERGENIC			
SNP_12421_A_34684298	NC_021161.1	Ca_Kabuli_Chr02	34684298	CC	AA	AA	INTERGENIC			
SNP_12422_A_34684314	NC_021161.1	Ca_Kabuli_Chr02	34684314	GG	CC	CC	INTERGENIC			
SNP_12423_A_34684322	NC_021161.1	Ca_Kabuli_Chr02	34684322	GG	CC	CC	INTERGENIC			
SNP_12424_A_34684323	NC_021161.1	Ca_Kabuli_Chr02	34684323	GG	AA	AA	INTERGENIC			
SNP_12425_A_34684327	NC_021161.1	Ca_Kabuli_Chr02	34684327	AA	GG	GG	INTERGENIC			
SNP_12426_A_34684342	NC_021161.1	Ca_Kabuli_Chr02	34684342	TT	GG	GG	INTERGENIC			
SNP_12427_A_34684346	NC_021161.1	Ca_Kabuli_Chr02	34684346	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12428_A_34684354	NC_021161.1	Ca_Kabuli_Chr02	34684354	TT	CC	CC	INTERGENIC			
SNP_12430_A_34684403	NC_021161.1	Ca_Kabuli_Chr02	34684403	GG	AA	AA	INTERGENIC			
SNP_12431_A_34684448	NC_021161.1	Ca_Kabuli_Chr02	34684448	CC	TT	TT	INTERGENIC			
SNP_12432_A_34684509	NC_021161.1	Ca_Kabuli_Chr02	34684509	TT	GG	GG	INTERGENIC			
SNP_12433_A_34684646	NC_021161.1	Ca_Kabuli_Chr02	34684646	GG	AA	AA	INTERGENIC			
SNP_12434_A_34684732	NC_021161.1	Ca_Kabuli_Chr02	34684732	AA	GG	GG	INTERGENIC			
SNP_12435_A_34684742	NC_021161.1	Ca_Kabuli_Chr02	34684742	GG	AA	AA	INTERGENIC			
SNP_12436_A_34684754	NC_021161.1	Ca_Kabuli_Chr02	34684754	GG	TT	TT	INTERGENIC			
SNP_12437_A_34684833	NC_021161.1	Ca_Kabuli_Chr02	34684833	GG	AA	AA	INTERGENIC			
SNP_12439_A_34685009	NC_021161.1	Ca_Kabuli_Chr02	34685009	CC	AA	AA	INTERGENIC			
SNP_12440_A_34685048	NC_021161.1	Ca_Kabuli_Chr02	34685048	CC	TT	TT	INTERGENIC			
SNP_12441_A_34685085	NC_021161.1	Ca_Kabuli_Chr02	34685085	CC	TT	TT	INTERGENIC			
SNP_12442_A_34685101	NC_021161.1	Ca_Kabuli_Chr02	34685101	CC	TT	TT	INTERGENIC			
SNP_12443_A_34685116	NC_021161.1	Ca_Kabuli_Chr02	34685116	TT	GG	GG	INTERGENIC			
SNP_12444_A_34685148	NC_021161.1	Ca_Kabuli_Chr02	34685148	GG	TT	TT	INTERGENIC			
SNP_12445_A_34685180	NC_021161.1	Ca_Kabuli_Chr02	34685180	CC	TT	TT	INTERGENIC			
SNP_12447_A_34685339	NC_021161.1	Ca_Kabuli_Chr02	34685339	TT	GG	GG	INTERGENIC			
SNP_12448_A_34685691	NC_021161.1	Ca_Kabuli_Chr02	34685691	TT	AA	AA	INTERGENIC			
SNP_12449_A_34685913	NC_021161.1	Ca_Kabuli_Chr02	34685913	AA	CC	CC	INTERGENIC			
SNP_12451_A_34768734	NC_021161.1	Ca_Kabuli_Chr02	34768734	TT	GG	GG	DRR	101504982	NEP1-interacting protein 1-like	
SNP_12452_A_34768736	NC_021161.1	Ca_Kabuli_Chr02	34768736	TT	AA	AA	DRR	101504982	NEP1-interacting protein 1-like	
SNP_12453_A_34807547	NC_021161.1	Ca_Kabuli_Chr02	34807547	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12454_A_34807638	NC_021161.1	Ca_Kabuli_Chr02	34807638	GG	CC	CC	INTERGENIC		
SNP_12455_A_34809592	NC_021161.1	Ca_Kabuli_Chr02	34809592	GG	AA	AA	INTERGENIC		
SNP_12456_A_34830579	NC_021161.1	Ca_Kabuli_Chr02	34830579	TT	GG	GG	NON_SYNONYMOUS_CODING	id40820	Unknown function
SNP_12457_A_34830714	NC_021161.1	Ca_Kabuli_Chr02	34830714	CC	TT	TT	SYNONYMOUS_CODING	id40820	Unknown function
SNP_12458_A_34830733	NC_021161.1	Ca_Kabuli_Chr02	34830733	CC	GG	GG	NON_SYNONYMOUS_CODING	id40820	Unknown function
SNP_12459_A_34830827	NC_021161.1	Ca_Kabuli_Chr02	34830827	CC	TT	TT	NON_SYNONYMOUS_CODING	id40820	Unknown function
SNP_12460_A_34830967	NC_021161.1	Ca_Kabuli_Chr02	34830967	GG	AA	AA	NON_SYNONYMOUS_CODING	id40820	Unknown function
SNP_12461_A_34918131	NC_021161.1	Ca_Kabuli_Chr02	34918131	TT	CC	CC	URR	101496055	uncharacterized LOC101496055
SNP_12462_A_34979636	NC_021161.1	Ca_Kabuli_Chr02	34979636	TT	AA	AA	DRR	101498015	uncharacterized LOC101498015
SNP_12464_A_34997328	NC_021161.1	Ca_Kabuli_Chr02	34997328	AA	GG	GG	INTERGENIC		
SNP_12465_A_35168735	NC_021161.1	Ca_Kabuli_Chr02	35168735	AA	CC	CC	INTERGENIC		
SNP_12466_A_35168737	NC_021161.1	Ca_Kabuli_Chr02	35168737	AA	CC	CC	INTERGENIC		
SNP_12467_A_35258326	NC_021161.1	Ca_Kabuli_Chr02	35258326	CC	TT	TT	INTRON	101499646	Unknown function
SNP_12468_A_35258337	NC_021161.1	Ca_Kabuli_Chr02	35258337	TT	AA	AA	INTRON	101499646	Unknown function
SNP_12469_A_35258397	NC_021161.1	Ca_Kabuli_Chr02	35258397	TT	CC	CC	INTRON	101499646	Unknown function
SNP_12471_A_35258711	NC_021161.1	Ca_Kabuli_Chr02	35258711	TT	CC	CC	INTRON	101499646	Unknown function
SNP_12472_A_35258756	NC_021161.1	Ca_Kabuli_Chr02	35258756	CC	TT	TT	INTRON	101499646	Unknown function
SNP_12473_A_35258881	NC_021161.1	Ca_Kabuli_Chr02	35258881	TT	CC	CC	INTRON	101499646	Unknown function
SNP_12474_A_35287787	NC_021161.1	Ca_Kabuli_Chr02	35287787	CC	TT	TT	INTERGENIC		
SNP_12475_A_35287791	NC_021161.1	Ca_Kabuli_Chr02	35287791	TT	GG	GG	INTERGENIC		
SNP_12476_A_35287799	NC_021161.1	Ca_Kabuli_Chr02	35287799	AA	GG	GG	INTERGENIC		
SNP_12477_A_35287962	NC_021161.1	Ca_Kabuli_Chr02	35287962	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12478_A_35288028	NC_021161.1	Ca_Kabuli_Chr02	35288028	TT	AA	AA	INTERGENIC			
SNP_12479_A_35288039	NC_021161.1	Ca_Kabuli_Chr02	35288039	AA	GG	GG	INTERGENIC			
SNP_12480_A_35288097	NC_021161.1	Ca_Kabuli_Chr02	35288097	TT	CC	CC	INTERGENIC			
SNP_12482_A_35288190	NC_021161.1	Ca_Kabuli_Chr02	35288190	AA	GG	GG	INTERGENIC			
SNP_12483_A_35288203	NC_021161.1	Ca_Kabuli_Chr02	35288203	AA	GG	GG	INTERGENIC			
SNP_12484_A_35288205	NC_021161.1	Ca_Kabuli_Chr02	35288205	GG	TT	TT	INTERGENIC			
SNP_12485_A_35288260	NC_021161.1	Ca_Kabuli_Chr02	35288260	AA	GG	GG	INTERGENIC			
SNP_12486_A_35288350	NC_021161.1	Ca_Kabuli_Chr02	35288350	TT	CC	CC	INTERGENIC			
SNP_12487_A_35288351	NC_021161.1	Ca_Kabuli_Chr02	35288351	TT	CC	CC	INTERGENIC			
SNP_12488_A_35288379	NC_021161.1	Ca_Kabuli_Chr02	35288379	AA	CC	CC	INTERGENIC			
SNP_12489_A_35288412	NC_021161.1	Ca_Kabuli_Chr02	35288412	GG	TT	TT	INTERGENIC			
SNP_12491_A_35288529	NC_021161.1	Ca_Kabuli_Chr02	35288529	AA	TT	TT	INTERGENIC			
SNP_12492_A_35288530	NC_021161.1	Ca_Kabuli_Chr02	35288530	CC	TT	TT	INTERGENIC			
SNP_12493_A_35288540	NC_021161.1	Ca_Kabuli_Chr02	35288540	TT	AA	AA	INTERGENIC			
SNP_12494_A_35288578	NC_021161.1	Ca_Kabuli_Chr02	35288578	GG	TT	TT	INTERGENIC			
SNP_12495_A_35288581	NC_021161.1	Ca_Kabuli_Chr02	35288581	GG	AA	AA	INTERGENIC			
SNP_12496_A_35288859	NC_021161.1	Ca_Kabuli_Chr02	35288859	TT	GG	GG	INTERGENIC			
SNP_12497_A_35288863	NC_021161.1	Ca_Kabuli_Chr02	35288863	GG	TT	TT	INTERGENIC			
SNP_12498_A_35288966	NC_021161.1	Ca_Kabuli_Chr02	35288966	TT	CC	CC	INTERGENIC			
SNP_12499_A_35288967	NC_021161.1	Ca_Kabuli_Chr02	35288967	TT	AA	AA	INTERGENIC			
SNP_12500_A_35289047	NC_021161.1	Ca_Kabuli_Chr02	35289047	TT	CC	CC	INTERGENIC			
SNP_12501_A_35289099	NC_021161.1	Ca_Kabuli_Chr02	35289099	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12502_A_35289103	NC_021161.1	Ca_Kabuli_Chr02	35289103	GG	CC	CC	INTERGENIC		
SNP_12503_A_35289282	NC_021161.1	Ca_Kabuli_Chr02	35289282	AA	CC	CC	INTERGENIC		
SNP_12504_A_35289300	NC_021161.1	Ca_Kabuli_Chr02	35289300	AA	CC	CC	INTERGENIC		
SNP_12505_A_35289367	NC_021161.1	Ca_Kabuli_Chr02	35289367	GG	TT	TT	INTERGENIC		
SNP_12506_A_35289371	NC_021161.1	Ca_Kabuli_Chr02	35289371	AA	TT	TT	INTERGENIC		
SNP_12508_A_35289427	NC_021161.1	Ca_Kabuli_Chr02	35289427	AA	GG	GG	DRR	101503145	Unknown function
SNP_12509_A_35289459	NC_021161.1	Ca_Kabuli_Chr02	35289459	AA	TT	TT	DRR	101503145	Unknown function
SNP_12510_A_35291940	NC_021161.1	Ca_Kabuli_Chr02	35291940	AA	GG	GG	INTRON	101503145	Unknown function
SNP_12512_A_35297860	NC_021161.1	Ca_Kabuli_Chr02	35297860	CC	AA	AA	INTRON	101503145	Unknown function
SNP_12513_A_35298528	NC_021161.1	Ca_Kabuli_Chr02	35298528	GG	AA	AA	SYNONYMOUS_CODING	101503145	Unknown function
SNP_12514_A_35298553	NC_021161.1	Ca_Kabuli_Chr02	35298553	CC	GG	GG	NON_SYNONYMOUS_CODING	101503145	Unknown function
SNP_12515_A_35298581	NC_021161.1	Ca_Kabuli_Chr02	35298581	CC	TT	TT	INTRON	101503145	Unknown function
SNP_12516_A_35298784	NC_021161.1	Ca_Kabuli_Chr02	35298784	TT	AA	AA	INTRON	101503145	Unknown function
SNP_12517_A_35298857	NC_021161.1	Ca_Kabuli_Chr02	35298857	GG	AA	AA	INTRON	101503145	Unknown function
SNP_12519_A_35299116	NC_021161.1	Ca_Kabuli_Chr02	35299116	GG	AA	AA	INTRON	101503145	Unknown function
SNP_12520_A_35299117	NC_021161.1	Ca_Kabuli_Chr02	35299117	AA	CC	CC	INTRON	101503145	Unknown function
SNP_12521_A_35299129	NC_021161.1	Ca_Kabuli_Chr02	35299129	GG	AA	AA	INTRON	101503145	Unknown function
SNP_12522_A_35299161	NC_021161.1	Ca_Kabuli_Chr02	35299161	CC	GG	GG	INTRON	101503145	Unknown function
SNP_12523_A_35299163	NC_021161.1	Ca_Kabuli_Chr02	35299163	AA	GG	GG	INTRON	101503145	Unknown function
SNP_12524_A_35300860	NC_021161.1	Ca_Kabuli_Chr02	35300860	TT	CC	CC	URR	101503145	Unknown function
SNP_12525_A_35302916	NC_021161.1	Ca_Kabuli_Chr02	35302916	GG	AA	AA	INTERGENIC		
SNP_12526_A_35302992	NC_021161.1	Ca_Kabuli_Chr02	35302992	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12527_A_35303184	NC_021161.1	Ca_Kabuli_Chr02	35303184	GG	AA	AA	INTERGENIC			
SNP_12528_A_35303217	NC_021161.1	Ca_Kabuli_Chr02	35303217	CC	TT	TT	INTERGENIC			
SNP_12529_A_35303231	NC_021161.1	Ca_Kabuli_Chr02	35303231	CC	TT	TT	INTERGENIC			
SNP_12530_A_35303281	NC_021161.1	Ca_Kabuli_Chr02	35303281	TT	AA	AA	INTERGENIC			
SNP_12531_A_35303295	NC_021161.1	Ca_Kabuli_Chr02	35303295	GG	AA	AA	INTERGENIC			
SNP_12532_A_35303397	NC_021161.1	Ca_Kabuli_Chr02	35303397	GG	AA	AA	INTERGENIC			
SNP_12534_A_35303511	NC_021161.1	Ca_Kabuli_Chr02	35303511	GG	AA	AA	INTERGENIC			
SNP_12535_A_35303589	NC_021161.1	Ca_Kabuli_Chr02	35303589	AA	GG	GG	INTERGENIC			
SNP_12536_A_35303595	NC_021161.1	Ca_Kabuli_Chr02	35303595	TT	GG	GG	INTERGENIC			
SNP_12537_A_35303614	NC_021161.1	Ca_Kabuli_Chr02	35303614	TT	CC	CC	INTERGENIC			
SNP_12538_A_35303671	NC_021161.1	Ca_Kabuli_Chr02	35303671	CC	AA	AA	INTERGENIC			
SNP_12539_A_35303711	NC_021161.1	Ca_Kabuli_Chr02	35303711	GG	AA	AA	INTERGENIC			
SNP_12540_A_35303778	NC_021161.1	Ca_Kabuli_Chr02	35303778	AA	GG	GG	INTERGENIC			
SNP_12541_A_35303932	NC_021161.1	Ca_Kabuli_Chr02	35303932	TT	CC	CC	INTERGENIC			
SNP_12542_A_35303957	NC_021161.1	Ca_Kabuli_Chr02	35303957	TT	CC	CC	INTERGENIC			
SNP_12543_A_35303978	NC_021161.1	Ca_Kabuli_Chr02	35303978	TT	GG	GG	INTERGENIC			
SNP_12544_A_35304015	NC_021161.1	Ca_Kabuli_Chr02	35304015	GG	CC	CC	INTERGENIC			
SNP_12545_A_35304021	NC_021161.1	Ca_Kabuli_Chr02	35304021	TT	CC	CC	INTERGENIC			
SNP_12546_A_35304053	NC_021161.1	Ca_Kabuli_Chr02	35304053	GG	TT	TT	INTERGENIC			
SNP_12547_A_35304070	NC_021161.1	Ca_Kabuli_Chr02	35304070	TT	CC	CC	INTERGENIC			
SNP_12548_A_35304105	NC_021161.1	Ca_Kabuli_Chr02	35304105	TT	CC	CC	INTERGENIC			
SNP_12549_A_35304132	NC_021161.1	Ca_Kabuli_Chr02	35304132	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12550_A_35304207	NC_021161.1	Ca_Kabuli_Chr02	35304207	GG	AA	AA	INTERGENIC			
SNP_12551_A_35304311	NC_021161.1	Ca_Kabuli_Chr02	35304311	GG	AA	AA	INTERGENIC			
SNP_12552_A_35304603	NC_021161.1	Ca_Kabuli_Chr02	35304603	CC	TT	TT	INTERGENIC			
SNP_12554_A_35304719	NC_021161.1	Ca_Kabuli_Chr02	35304719	TT	CC	CC	INTERGENIC			
SNP_12555_A_35304722	NC_021161.1	Ca_Kabuli_Chr02	35304722	TT	CC	CC	INTERGENIC			
SNP_12556_A_35304764	NC_021161.1	Ca_Kabuli_Chr02	35304764	TT	CC	CC	INTERGENIC			
SNP_12557_A_35304962	NC_021161.1	Ca_Kabuli_Chr02	35304962	GG	TT	TT	INTERGENIC			
SNP_12558_A_35305015	NC_021161.1	Ca_Kabuli_Chr02	35305015	GG	AA	AA	INTERGENIC			
SNP_12559_A_35305138	NC_021161.1	Ca_Kabuli_Chr02	35305138	AA	GG	GG	INTERGENIC			
SNP_12560_A_35305210	NC_021161.1	Ca_Kabuli_Chr02	35305210	GG	AA	AA	INTERGENIC			
SNP_12561_A_35305399	NC_021161.1	Ca_Kabuli_Chr02	35305399	CC	TT	TT	INTERGENIC			
SNP_12562_A_35305429	NC_021161.1	Ca_Kabuli_Chr02	35305429	AA	GG	GG	INTERGENIC			
SNP_12563_A_35305584	NC_021161.1	Ca_Kabuli_Chr02	35305584	AA	GG	GG	INTERGENIC			
SNP_12564_A_35306353	NC_021161.1	Ca_Kabuli_Chr02	35306353	GG	AA	AA	INTERGENIC			
SNP_12565_A_35306374	NC_021161.1	Ca_Kabuli_Chr02	35306374	TT	CC	CC	INTERGENIC			
SNP_12566_A_35313126	NC_021161.1	Ca_Kabuli_Chr02	35313126	GG	TT	TT	INTERGENIC			
SNP_12567_A_35313198	NC_021161.1	Ca_Kabuli_Chr02	35313198	TT	GG	GG	INTERGENIC			
SNP_12568_A_35313225	NC_021161.1	Ca_Kabuli_Chr02	35313225	TT	GG	GG	INTERGENIC			
SNP_12569_A_35313337	NC_021161.1	Ca_Kabuli_Chr02	35313337	TT	AA	AA	INTERGENIC			
SNP_12571_A_35457956	NC_021161.1	Ca_Kabuli_Chr02	35457956	AA	CC	CC	INTERGENIC			
SNP_12572_A_35483289	NC_021161.1	Ca_Kabuli_Chr02	35483289	TT	CC	CC	URR	101504128		meiotic recombination protein SPO11-1
SNP_12573_A_35580628	NC_021161.1	Ca_Kabuli_Chr02	35580628	AA	TT	TT	URR	101514214		nicotinamide/nicotinic acid mononucleotide adenylyltransferase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12574_A_35580685	NC_021161.1	Ca_Kabuli_Chr02	35580685	CC	GG	GG	URR	101514214	nicotinamide/nicotinic acid mononucleotide adenylyltransferase
SNP_12575_A_35580704	NC_021161.1	Ca_Kabuli_Chr02	35580704	CC	AA	AA	URR	101514214	nicotinamide/nicotinic acid mononucleotide adenylyltransferase
SNP_12576_A_35580924	NC_021161.1	Ca_Kabuli_Chr02	35580924	GG	AA	AA	URR	101514214	nicotinamide/nicotinic acid mononucleotide adenylyltransferase
SNP_12577_A_35582139	NC_021161.1	Ca_Kabuli_Chr02	35582139	TT	CC	CC	INTERGENIC		
SNP_12578_A_35582151	NC_021161.1	Ca_Kabuli_Chr02	35582151	TT	GG	GG	INTERGENIC		
SNP_12579_A_35634400	NC_021161.1	Ca_Kabuli_Chr02	35634400	TT	GG	GG	INTERGENIC		
SNP_12580_A_35658957	NC_021161.1	Ca_Kabuli_Chr02	35658957	GG	AA	AA	INTERGENIC		
SNP_12581_A_35711922	NC_021161.1	Ca_Kabuli_Chr02	35711922	TT	CC	CC	URR	101491102	tubulin-folding cofactor A
SNP_12582_A_35848990	NC_021161.1	Ca_Kabuli_Chr02	35848990	AA	GG	GG	INTERGENIC		
SNP_12583_A_35878088	NC_021161.1	Ca_Kabuli_Chr02	35878088	GG	AA	AA	INTRON	101506060	aspartic proteinase-like protein 2
SNP_12584_A_35878257	NC_021161.1	Ca_Kabuli_Chr02	35878257	TT	CC	CC	NON_SYNONYMOUS_CODING	101506060	aspartic proteinase-like protein 2
SNP_12585_A_35878302	NC_021161.1	Ca_Kabuli_Chr02	35878302	CC	TT	TT	INTRON	101506060	aspartic proteinase-like protein 2
SNP_12586_A_35878342	NC_021161.1	Ca_Kabuli_Chr02	35878342	TT	GG	GG	INTRON	101506060	aspartic proteinase-like protein 2
SNP_12587_A_35878427	NC_021161.1	Ca_Kabuli_Chr02	35878427	CC	TT	TT	SYNONYMOUS_CODING	101506060	aspartic proteinase-like protein 2
SNP_12588_A_35878458	NC_021161.1	Ca_Kabuli_Chr02	35878458	TT	AA	AA	NON_SYNONYMOUS_CODING	101506060	aspartic proteinase-like protein 2
SNP_12589_A_35878527	NC_021161.1	Ca_Kabuli_Chr02	35878527	TT	AA	AA	NON_SYNONYMOUS_CODING	101506060	aspartic proteinase-like protein 2
SNP_12590_A_35878767	NC_021161.1	Ca_Kabuli_Chr02	35878767	CC	GG	GG	URR	101506060	aspartic proteinase-like protein 2
SNP_12591_A_35901119	NC_021161.1	Ca_Kabuli_Chr02	35901119	TT	CC	CC	URR	101499331	neutral ceramidase-like
SNP_12592_A_35901124	NC_021161.1	Ca_Kabuli_Chr02	35901124	TT	AA	AA	URR	101499331	neutral ceramidase-like
SNP_12593_A_35901139	NC_021161.1	Ca_Kabuli_Chr02	35901139	AA	CC	CC	URR	101499331	neutral ceramidase-like
SNP_12594_A_35925516	NC_021161.1	Ca_Kabuli_Chr02	35925516	TT	CC	CC	INTRON	101506374	transcriptional regulator STERILE APETALA
SNP_12595_A_35944781	NC_021161.1	Ca_Kabuli_Chr02	35944781	CC	TT	TT	SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12596_A_35944799	NC_021161.1	Ca_Kabuli_Chr02	35944799	GG	AA	AA	SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic
SNP_12597_A_35944816	NC_021161.1	Ca_Kabuli_Chr02	35944816	AA	CC	CC	NON_SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic
SNP_12598_A_35944831	NC_021161.1	Ca_Kabuli_Chr02	35944831	CC	TT	TT	NON_SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic
SNP_12599_A_35944834	NC_021161.1	Ca_Kabuli_Chr02	35944834	CC	TT	TT	NON_SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic
SNP_12600_A_35944855	NC_021161.1	Ca_Kabuli_Chr02	35944855	CC	TT	TT	NON_SYNONYMOUS_CODING	101506703	phytochromobilin:ferredoxin oxidoreductase, chloroplastic
SNP_12601_A_35944897	NC_021161.1	Ca_Kabuli_Chr02	35944897	TT	AA	AA	INTERGENIC		
SNP_12602_A_35944958	NC_021161.1	Ca_Kabuli_Chr02	35944958	TT	CC	CC	INTERGENIC		
SNP_12604_A_35945012	NC_021161.1	Ca_Kabuli_Chr02	35945012	AA	GG	GG	INTERGENIC		
SNP_12605_A_35945028	NC_021161.1	Ca_Kabuli_Chr02	35945028	TT	AA	AA	INTERGENIC		
SNP_12606_A_35945051	NC_021161.1	Ca_Kabuli_Chr02	35945051	CC	AA	AA	INTERGENIC		
SNP_12607_A_35945091	NC_021161.1	Ca_Kabuli_Chr02	35945091	CC	AA	AA	INTERGENIC		
SNP_12608_A_35945161	NC_021161.1	Ca_Kabuli_Chr02	35945161	AA	TT	TT	INTERGENIC		
SNP_12609_A_35945220	NC_021161.1	Ca_Kabuli_Chr02	35945220	AA	CC	CC	INTERGENIC		
SNP_12610_A_35945284	NC_021161.1	Ca_Kabuli_Chr02	35945284	AA	GG	GG	INTERGENIC		
SNP_12611_A_35945287	NC_021161.1	Ca_Kabuli_Chr02	35945287	AA	GG	GG	INTERGENIC		
SNP_12612_A_35963501	NC_021161.1	Ca_Kabuli_Chr02	35963501	TT	CC	CC	INTERGENIC		
SNP_12613_A_35983927	NC_021161.1	Ca_Kabuli_Chr02	35983927	AA	CC	CC	INTERGENIC		
SNP_12616_A_36194474	NC_021161.1	Ca_Kabuli_Chr02	36194474	AA	GG	GG	INTERGENIC		
SNP_12618_A_36235576	NC_021161.1	Ca_Kabuli_Chr02	36235576	TT	AA	AA	DRR	101489159	uncharacterized LOC101489159
SNP_12619_A_36321382	NC_021161.1	Ca_Kabuli_Chr02	36321382	AA	TT	TT	INTRON	101492728	uncharacterized LOC101492728
SNP_12620_A_36555130	NC_021161.1	Ca_Kabuli_Chr02	36555130	GG	AA	AA	INTRON	101501873	protein FAR1-RELATED SEQUENCE 9
SNP_12621_A_36624181	NC_021161.1	Ca_Kabuli_Chr02	36624181	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12622_A_36624256	NC_021161.1	Ca_Kabuli_Chr02	36624256	TT	CC	CC	INTERGENIC		
SNP_12623_A_36624276	NC_021161.1	Ca_Kabuli_Chr02	36624276	AA	GG	GG	INTERGENIC		
SNP_12624_A_36624397	NC_021161.1	Ca_Kabuli_Chr02	36624397	AA	GG	GG	INTERGENIC		
SNP_12625_A_36624408	NC_021161.1	Ca_Kabuli_Chr02	36624408	TT	GG	GG	INTERGENIC		
SNP_12626_A_36624497	NC_021161.1	Ca_Kabuli_Chr02	36624497	TT	CC	CC	INTERGENIC		
SNP_12627_A_36624552	NC_021161.1	Ca_Kabuli_Chr02	36624552	TT	CC	CC	INTERGENIC		
SNP_12628_A_4730	NC_021162.1	Ca_Kabuli_Chr03	4730	TT	AA	AA	INTERGENIC		
SNP_12629_A_40641	NC_021162.1	Ca_Kabuli_Chr03	40641	GG	AA	AA	URR	101510012	uncharacterized LOC101510012
SNP_12631_A_71753	NC_021162.1	Ca_Kabuli_Chr03	71753	TT	GG	GG	DRR	101511294	uncharacterized LOC101511294
SNP_12632_A_87442	NC_021162.1	Ca_Kabuli_Chr03	87442	CC	GG	AA	INTERGENIC		
SNP_12633_A_87856	NC_021162.1	Ca_Kabuli_Chr03	87856	GG	AA	AA	INTERGENIC		
SNP_12635_A_109292	NC_021162.1	Ca_Kabuli_Chr03	109292	TT	GG	GG	INTRON	101511936	bidirectional sugar transporter N3-like
SNP_12636_A_123913	NC_021162.1	Ca_Kabuli_Chr03	123913	TT	CC	CC	INTERGENIC		
SNP_12637_A_124514	NC_021162.1	Ca_Kabuli_Chr03	124514	GG	TT	TT	INTERGENIC		
SNP_12639_A_160944	NC_021162.1	Ca_Kabuli_Chr03	160944	AA	GG	GG	INTERGENIC		
SNP_12640_A_178971	NC_021162.1	Ca_Kabuli_Chr03	178971	TT	GG	GG	INTERGENIC		
SNP_12641_A_183983	NC_021162.1	Ca_Kabuli_Chr03	183983	TT	AA	AA	INTERGENIC		
SNP_12642_A_183985	NC_021162.1	Ca_Kabuli_Chr03	183985	TT	CC	CC	INTERGENIC		
SNP_12643_A_189842	NC_021162.1	Ca_Kabuli_Chr03	189842	AA	CC	CC	INTERGENIC		
SNP_12644_A_189869	NC_021162.1	Ca_Kabuli_Chr03	189869	CC	TT	TT	INTERGENIC		
SNP_12645_A_189870	NC_021162.1	Ca_Kabuli_Chr03	189870	TT	CC	CC	INTERGENIC		
SNP_12646_A_189902	NC_021162.1	Ca_Kabuli_Chr03	189902	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12647_A_189916	NC_021162.1	Ca_Kabuli_Chr03	189916	AA	GG	GG	INTERGENIC		
SNP_12648_A_193234	NC_021162.1	Ca_Kabuli_Chr03	193234	AA	GG	GG	INTERGENIC		
SNP_12650_A_251369	NC_021162.1	Ca_Kabuli_Chr03	251369	AA	GG	GG	INTERGENIC		
SNP_12651_A_277453	NC_021162.1	Ca_Kabuli_Chr03	277453	TT	GG	GG	INTERGENIC		
SNP_12652_A_277720	NC_021162.1	Ca_Kabuli_Chr03	277720	AA	GG	GG	INTERGENIC		
SNP_12653_A_282969	NC_021162.1	Ca_Kabuli_Chr03	282969	TT	CC	CC	INTERGENIC		
SNP_12654_A_335984	NC_021162.1	Ca_Kabuli_Chr03	335984	AA	GG	GG	INTERGENIC		
SNP_12655_A_335987	NC_021162.1	Ca_Kabuli_Chr03	335987	CC	TT	TT	INTERGENIC		
SNP_12656_A_335993	NC_021162.1	Ca_Kabuli_Chr03	335993	GG	TT	AA	INTERGENIC		
SNP_12657_A_339173	NC_021162.1	Ca_Kabuli_Chr03	339173	CC	TT	TT	INTERGENIC		
SNP_12658_A_358390	NC_021162.1	Ca_Kabuli_Chr03	358390	AA	CC	CC	INTERGENIC		
SNP_12659_A_365192	NC_021162.1	Ca_Kabuli_Chr03	365192	TT	AA	AA	NON_SYNONYMOUS_CODING	101489581	vacuolar-processing enzyme-like
SNP_12660_A_365305	NC_021162.1	Ca_Kabuli_Chr03	365305	CC	TT	TT	INTRON	101489581	vacuolar-processing enzyme-like
SNP_12661_A_365418	NC_021162.1	Ca_Kabuli_Chr03	365418	AA	TT	TT	INTRON	101489581	vacuolar-processing enzyme-like
SNP_12662_A_371696	NC_021162.1	Ca_Kabuli_Chr03	371696	AA	GG	GG	INTERGENIC		
SNP_12663_A_376342	NC_021162.1	Ca_Kabuli_Chr03	376342	GG	TT	TT	INTERGENIC		
SNP_12664_A_376712	NC_021162.1	Ca_Kabuli_Chr03	376712	TT	CC	CC	INTERGENIC		
SNP_12665_A_380777	NC_021162.1	Ca_Kabuli_Chr03	380777	AA	GG	GG	INTERGENIC		
SNP_12667_A_390649	NC_021162.1	Ca_Kabuli_Chr03	390649	AA	GG	GG	INTERGENIC		
SNP_12668_A_395820	NC_021162.1	Ca_Kabuli_Chr03	395820	GG	AA	AA	INTERGENIC		
SNP_12669_A_415305	NC_021162.1	Ca_Kabuli_Chr03	415305	GG	AA	AA	INTRON	101490235	vacuolar-processing enzyme-like
SNP_12670_A_415434	NC_021162.1	Ca_Kabuli_Chr03	415434	CC	TT	TT	INTRON	101490235	vacuolar-processing enzyme-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12671_A_415494	NC_021162.1	Ca_Kabuli_Chr03	415494	TT	GG	GG	INTRON	101490235	vacuolar-processing enzyme-like
SNP_12672_A_426792	NC_021162.1	Ca_Kabuli_Chr03	426792	GG	AA	AA	DRR	101490878	uncharacterized LOC101490878
SNP_12673_A_427697	NC_021162.1	Ca_Kabuli_Chr03	427697	CC	TT	TT	NON_SYNONYMOUS_CODING	101490878	uncharacterized LOC101490878
SNP_12674_A_450062	NC_021162.1	Ca_Kabuli_Chr03	450062	GG	AA	AA	INTERGENIC		
SNP_12675_A_450073	NC_021162.1	Ca_Kabuli_Chr03	450073	GG	TT	TT	INTERGENIC		
SNP_12677_A_451700	NC_021162.1	Ca_Kabuli_Chr03	451700	GG	AA	AA	DRR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12678_A_451980	NC_021162.1	Ca_Kabuli_Chr03	451980	CC	AA	AA	DRR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12679_A_452090	NC_021162.1	Ca_Kabuli_Chr03	452090	TT	AA	AA	DRR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12680_A_452114	NC_021162.1	Ca_Kabuli_Chr03	452114	CC	TT	TT	DRR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12681_A_454268	NC_021162.1	Ca_Kabuli_Chr03	454268	AA	GG	GG	SYNONYMOUS_CODING	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12682_A_454271	NC_021162.1	Ca_Kabuli_Chr03	454271	GG	AA	AA	SYNONYMOUS_CODING	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12685_A_454727	NC_021162.1	Ca_Kabuli_Chr03	454727	CC	TT	TT	URR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12686_A_454738	NC_021162.1	Ca_Kabuli_Chr03	454738	TT	CC	CC	URR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12687_A_454851	NC_021162.1	Ca_Kabuli_Chr03	454851	GG	AA	AA	URR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12688_A_454862	NC_021162.1	Ca_Kabuli_Chr03	454862	AA	GG	GG	URR	101491197	F-box/kelch-repeat protein At3g23880-like
SNP_12691_A_580550	NC_021162.1	Ca_Kabuli_Chr03	580550	GG	CC	CC	INTERGENIC		
SNP_12693_A_635196	NC_021162.1	Ca_Kabuli_Chr03	635196	AA	GG	GG	INTERGENIC		
SNP_12694_A_635197	NC_021162.1	Ca_Kabuli_Chr03	635197	AA	TT	TT	INTERGENIC		
SNP_12695_A_646923	NC_021162.1	Ca_Kabuli_Chr03	646923	AA	GG	GG	INTERGENIC		
SNP_12696_A_647432	NC_021162.1	Ca_Kabuli_Chr03	647432	CC	TT	TT	INTERGENIC		
SNP_12697_A_647437	NC_021162.1	Ca_Kabuli_Chr03	647437	GG	AA	AA	INTERGENIC		
SNP_12698_A_647492	NC_021162.1	Ca_Kabuli_Chr03	647492	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12699_A_671284	NC_021162.1	Ca_Kabuli_Chr03	671284	TT	CC	CC	SYNONYMOUS_CODING	101498348	uncharacterized LOC101498348
SNP_12700_A_671321	NC_021162.1	Ca_Kabuli_Chr03	671321	GG	AA	AA	NON_SYNONYMOUS_CODING	101498348	uncharacterized LOC101498348
SNP_12701_A_671376	NC_021162.1	Ca_Kabuli_Chr03	671376	TT	CC	CC	INTRON	101498348	uncharacterized LOC101498348
SNP_12702_A_671392	NC_021162.1	Ca_Kabuli_Chr03	671392	TT	GG	GG	INTRON	101498348	uncharacterized LOC101498348
SNP_12703_A_671399	NC_021162.1	Ca_Kabuli_Chr03	671399	GG	CC	CC	INTRON	101498348	uncharacterized LOC101498348
SNP_12704_A_671412	NC_021162.1	Ca_Kabuli_Chr03	671412	TT	AA	AA	INTRON	101498348	uncharacterized LOC101498348
SNP_12705_A_671451	NC_021162.1	Ca_Kabuli_Chr03	671451	AA	GG	GG	INTRON	101498348	uncharacterized LOC101498348
SNP_12706_A_671549	NC_021162.1	Ca_Kabuli_Chr03	671549	TT	CC	CC	NON_SYNONYMOUS_CODING	101498348	uncharacterized LOC101498348
SNP_12707_A_671633	NC_021162.1	Ca_Kabuli_Chr03	671633	TT	CC	CC	NON_SYNONYMOUS_CODING	101498348	uncharacterized LOC101498348
SNP_12708_A_675629	NC_021162.1	Ca_Kabuli_Chr03	675629	TT	CC	CC	URR	101498348	uncharacterized LOC101498348
SNP_12710_A_745505	NC_021162.1	Ca_Kabuli_Chr03	745505	CC	GG	GG	INTERGENIC		
SNP_12711_A_753641	NC_021162.1	Ca_Kabuli_Chr03	753641	CC	TT	TT	INTERGENIC		
SNP_12712_A_761747	NC_021162.1	Ca_Kabuli_Chr03	761747	AA	GG	GG	INTERGENIC		
SNP_12715_A_873251	NC_021162.1	Ca_Kabuli_Chr03	873251	AA	TT	TT	INTERGENIC		
SNP_12716_A_897520	NC_021162.1	Ca_Kabuli_Chr03	897520	GG	AA	AA	INTERGENIC		
SNP_12717_A_898747	NC_021162.1	Ca_Kabuli_Chr03	898747	GG	CC	CC	INTERGENIC		
SNP_12718_A_917627	NC_021162.1	Ca_Kabuli_Chr03	917627	TT	CC	CC	INTERGENIC		
SNP_12719_A_922553	NC_021162.1	Ca_Kabuli_Chr03	922553	AA	GG	GG	INTERGENIC		
SNP_12720_A_922557	NC_021162.1	Ca_Kabuli_Chr03	922557	AA	TT	TT	INTERGENIC		
SNP_12721_A_922645	NC_021162.1	Ca_Kabuli_Chr03	922645	TT	CC	CC	INTERGENIC		
SNP_12722_A_924803	NC_021162.1	Ca_Kabuli_Chr03	924803	AA	GG	GG	INTERGENIC		
SNP_12723_A_924839	NC_021162.1	Ca_Kabuli_Chr03	924839	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12724_A_924929	NC_021162.1	Ca_Kabuli_Chr03	924929	AA	TT	TT	INTERGENIC		
SNP_12725_A_925169	NC_021162.1	Ca_Kabuli_Chr03	925169	CC	TT	TT	INTERGENIC		
SNP_12726_A_925181	NC_021162.1	Ca_Kabuli_Chr03	925181	GG	TT	TT	DRR	101501558	uncharacterized LOC101501558
SNP_12727_A_925596	NC_021162.1	Ca_Kabuli_Chr03	925596	AA	GG	GG	DRR	101501558	uncharacterized LOC101501558
SNP_12728_A_925645	NC_021162.1	Ca_Kabuli_Chr03	925645	AA	GG	GG	DRR	101501558	uncharacterized LOC101501558
SNP_12729_A_938951	NC_021162.1	Ca_Kabuli_Chr03	938951	AA	GG	GG	INTERGENIC		
SNP_12731_A_939100	NC_021162.1	Ca_Kabuli_Chr03	939100	AA	GG	GG	INTERGENIC		
SNP_12732_A_939166	NC_021162.1	Ca_Kabuli_Chr03	939166	GG	TT	TT	INTERGENIC		
SNP_12733_A_939396	NC_021162.1	Ca_Kabuli_Chr03	939396	GG	AA	AA	INTERGENIC		
SNP_12735_A_959118	NC_021162.1	Ca_Kabuli_Chr03	959118	TT	GG	GG	INTERGENIC		
SNP_12736_A_959400	NC_021162.1	Ca_Kabuli_Chr03	959400	TT	CC	CC	INTERGENIC		
SNP_12737_A_962517	NC_021162.1	Ca_Kabuli_Chr03	962517	GG	AA	AA	INTERGENIC		
SNP_12738_A_962645	NC_021162.1	Ca_Kabuli_Chr03	962645	TT	AA	AA	INTERGENIC		
SNP_12739_A_962951	NC_021162.1	Ca_Kabuli_Chr03	962951	GG	AA	AA	INTERGENIC		
SNP_12740_A_964568	NC_021162.1	Ca_Kabuli_Chr03	964568	CC	TT	TT	INTERGENIC		
SNP_12741_A_968322	NC_021162.1	Ca_Kabuli_Chr03	968322	GG	TT	TT	INTERGENIC		
SNP_12742_A_993659	NC_021162.1	Ca_Kabuli_Chr03	993659	TT	CC	CC	INTERGENIC		
SNP_12743_A_1000952	NC_021162.1	Ca_Kabuli_Chr03	1000952	TT	GG	GG	INTERGENIC		
SNP_12744_A_1005009	NC_021162.1	Ca_Kabuli_Chr03	1005009	GG	AA	AA	INTERGENIC		
SNP_12745_A_1005340	NC_021162.1	Ca_Kabuli_Chr03	1005340	CC	AA	AA	INTERGENIC		
SNP_12746_A_1005376	NC_021162.1	Ca_Kabuli_Chr03	1005376	AA	GG	GG	INTERGENIC		
SNP_12747_A_1005431	NC_021162.1	Ca_Kabuli_Chr03	1005431	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12748_A_1038194	NC_021162.1	Ca_Kabuli_Chr03	1038194	AA	GG	GG	INTERGENIC			
SNP_12749_A_1062591	NC_021162.1	Ca_Kabuli_Chr03	1062591	GG	AA	AA	INTERGENIC			
SNP_12750_A_1063130	NC_021162.1	Ca_Kabuli_Chr03	1063130	AA	CC	CC	INTERGENIC			
SNP_12751_A_1063148	NC_021162.1	Ca_Kabuli_Chr03	1063148	TT	CC	CC	INTERGENIC			
SNP_12752_A_1074556	NC_021162.1	Ca_Kabuli_Chr03	1074556	AA	GG	GG	INTERGENIC			
SNP_12753_A_1111448	NC_021162.1	Ca_Kabuli_Chr03	1111448	AA	GG	GG	INTERGENIC			
SNP_12754_A_1119339	NC_021162.1	Ca_Kabuli_Chr03	1119339	TT	CC	CC	INTERGENIC			
SNP_12755_A_1119346	NC_021162.1	Ca_Kabuli_Chr03	1119346	AA	TT	TT	INTERGENIC			
SNP_12758_A_1175415	NC_021162.1	Ca_Kabuli_Chr03	1175415	TT	GG	GG	INTERGENIC			
SNP_12759_A_1175443	NC_021162.1	Ca_Kabuli_Chr03	1175443	AA	CC	CC	INTERGENIC			
SNP_12760_A_1175453	NC_021162.1	Ca_Kabuli_Chr03	1175453	TT	GG	GG	INTERGENIC			
SNP_12761_A_1175485	NC_021162.1	Ca_Kabuli_Chr03	1175485	TT	CC	CC	INTERGENIC			
SNP_12762_A_1175486	NC_021162.1	Ca_Kabuli_Chr03	1175486	AA	TT	TT	INTERGENIC			
SNP_12763_A_1175538	NC_021162.1	Ca_Kabuli_Chr03	1175538	AA	CC	CC	INTERGENIC			
SNP_12764_A_1175761	NC_021162.1	Ca_Kabuli_Chr03	1175761	AA	GG	GG	INTERGENIC			
SNP_12765_A_1175791	NC_021162.1	Ca_Kabuli_Chr03	1175791	AA	TT	TT	INTERGENIC			
SNP_12766_A_1175911	NC_021162.1	Ca_Kabuli_Chr03	1175911	AA	GG	GG	INTERGENIC			
SNP_12767_A_1185573	NC_021162.1	Ca_Kabuli_Chr03	1185573	CC	TT	TT	INTERGENIC			
SNP_12768_A_1185584	NC_021162.1	Ca_Kabuli_Chr03	1185584	TT	CC	CC	INTERGENIC			
SNP_12769_A_1185787	NC_021162.1	Ca_Kabuli_Chr03	1185787	TT	AA	AA	INTERGENIC			
SNP_12770_A_1185903	NC_021162.1	Ca_Kabuli_Chr03	1185903	GG	TT	TT	INTERGENIC			
SNP_12771_A_1185904	NC_021162.1	Ca_Kabuli_Chr03	1185904	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12772_A_1185933	NC_021162.1	Ca_Kabuli_Chr03	1185933	TT	CC	CC	INTERGENIC		
SNP_12773_A_1188676	NC_021162.1	Ca_Kabuli_Chr03	1188676	TT	AA	AA	INTERGENIC		
SNP_12774_A_1188728	NC_021162.1	Ca_Kabuli_Chr03	1188728	GG	AA	AA	INTERGENIC		
SNP_12775_A_1189479	NC_021162.1	Ca_Kabuli_Chr03	1189479	AA	CC	CC	INTERGENIC		
SNP_12776_A_1241886	NC_021162.1	Ca_Kabuli_Chr03	1241886	TT	CC	CC	INTRON	101509477	Unknown function
SNP_12777_A_1244917	NC_021162.1	Ca_Kabuli_Chr03	1244917	AA	TT	TT	INTRON	101509477	Unknown function
SNP_12778_A_1273643	NC_021162.1	Ca_Kabuli_Chr03	1273643	CC	GG	GG	INTERGENIC		
SNP_12781_A_1391556	NC_021162.1	Ca_Kabuli_Chr03	1391556	AA	CC	CC	INTERGENIC		
SNP_12782_A_1393855	NC_021162.1	Ca_Kabuli_Chr03	1393855	CC	TT	TT	INTERGENIC		
SNP_12783_A_1395094	NC_021162.1	Ca_Kabuli_Chr03	1395094	TT	AA	AA	INTERGENIC		
SNP_12784_A_1395105	NC_021162.1	Ca_Kabuli_Chr03	1395105	TT	GG	GG	INTERGENIC		
SNP_12785_A_1395109	NC_021162.1	Ca_Kabuli_Chr03	1395109	AA	GG	GG	INTERGENIC		
SNP_12786_A_1395110	NC_021162.1	Ca_Kabuli_Chr03	1395110	TT	AA	AA	INTERGENIC		
SNP_12787_A_1395121	NC_021162.1	Ca_Kabuli_Chr03	1395121	AA	GG	GG	INTERGENIC		
SNP_12788_A_1395135	NC_021162.1	Ca_Kabuli_Chr03	1395135	CC	TT	TT	INTERGENIC		
SNP_12789_A_1395392	NC_021162.1	Ca_Kabuli_Chr03	1395392	CC	AA	AA	INTERGENIC		
SNP_12790_A_1395397	NC_021162.1	Ca_Kabuli_Chr03	1395397	TT	AA	AA	INTERGENIC		
SNP_12791_A_1395398	NC_021162.1	Ca_Kabuli_Chr03	1395398	AA	CC	CC	INTERGENIC		
SNP_12792_A_1395399	NC_021162.1	Ca_Kabuli_Chr03	1395399	TT	AA	AA	INTERGENIC		
SNP_12793_A_1395400	NC_021162.1	Ca_Kabuli_Chr03	1395400	GG	TT	TT	INTERGENIC		
SNP_12795_A_1395482	NC_021162.1	Ca_Kabuli_Chr03	1395482	CC	TT	TT	INTERGENIC		
SNP_12796_A_1395580	NC_021162.1	Ca_Kabuli_Chr03	1395580	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12797_A_1395591	NC_021162.1	Ca_Kabuli_Chr03	1395591	CC	GG	GG	INTERGENIC			
SNP_12798_A_1395826	NC_021162.1	Ca_Kabuli_Chr03	1395826	TT	GG	GG	INTERGENIC			
SNP_12799_A_1396167	NC_021162.1	Ca_Kabuli_Chr03	1396167	TT	GG	GG	INTERGENIC			
SNP_12800_A_1396182	NC_021162.1	Ca_Kabuli_Chr03	1396182	AA	GG	GG	INTERGENIC			
SNP_12801_A_1396512	NC_021162.1	Ca_Kabuli_Chr03	1396512	GG	AA	AA	INTERGENIC			
SNP_12802_A_1396580	NC_021162.1	Ca_Kabuli_Chr03	1396580	CC	TT	TT	INTERGENIC			
SNP_12803_A_1397159	NC_021162.1	Ca_Kabuli_Chr03	1397159	AA	GG	GG	INTERGENIC			
SNP_12805_A_1403996	NC_021162.1	Ca_Kabuli_Chr03	1403996	AA	GG	GG	INTERGENIC			
SNP_12806_A_1404012	NC_021162.1	Ca_Kabuli_Chr03	1404012	AA	GG	GG	INTERGENIC			
SNP_12807_A_1404027	NC_021162.1	Ca_Kabuli_Chr03	1404027	CC	TT	TT	INTERGENIC			
SNP_12808_A_1404033	NC_021162.1	Ca_Kabuli_Chr03	1404033	GG	AA	AA	INTERGENIC			
SNP_12809_A_1450685	NC_021162.1	Ca_Kabuli_Chr03	1450685	GG	TT	TT	INTERGENIC			
SNP_12810_A_1450898	NC_021162.1	Ca_Kabuli_Chr03	1450898	CC	TT	TT	INTERGENIC			
SNP_12811_A_1450984	NC_021162.1	Ca_Kabuli_Chr03	1450984	AA	GG	GG	INTERGENIC			
SNP_12812_A_1452268	NC_021162.1	Ca_Kabuli_Chr03	1452268	TT	AA	AA	INTERGENIC			
SNP_12813_A_1452269	NC_021162.1	Ca_Kabuli_Chr03	1452269	CC	AA	AA	INTERGENIC			
SNP_12814_A_1454878	NC_021162.1	Ca_Kabuli_Chr03	1454878	AA	GG	GG	INTERGENIC			
SNP_12815_A_1458366	NC_021162.1	Ca_Kabuli_Chr03	1458366	GG	AA	AA	INTERGENIC			
SNP_12816_A_1461935	NC_021162.1	Ca_Kabuli_Chr03	1461935	GG	AA	AA	INTERGENIC			
SNP_12817_A_1468205	NC_021162.1	Ca_Kabuli_Chr03	1468205	GG	CC	CC	INTERGENIC			
SNP_12818_A_1476372	NC_021162.1	Ca_Kabuli_Chr03	1476372	AA	GG	GG	INTERGENIC			
SNP_12819_A_1477916	NC_021162.1	Ca_Kabuli_Chr03	1477916	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12820_A_1489932	NC_021162.1	Ca_Kabuli_Chr03	1489932	AA	TT	TT	URR	101503356	myb-related protein 305-like
SNP_12821_A_1492921	NC_021162.1	Ca_Kabuli_Chr03	1492921	CC	TT	TT	INTERGENIC		
SNP_12822_A_1511250	NC_021162.1	Ca_Kabuli_Chr03	1511250	AA	GG	GG	INTERGENIC		
SNP_12823_A_1511279	NC_021162.1	Ca_Kabuli_Chr03	1511279	TT	CC	CC	INTERGENIC		
SNP_12824_A_1511782	NC_021162.1	Ca_Kabuli_Chr03	1511782	CC	AA	AA	INTERGENIC		
SNP_12825_A_1532706	NC_021162.1	Ca_Kabuli_Chr03	1532706	TT	CC	CC	INTERGENIC		
SNP_12826_A_1532808	NC_021162.1	Ca_Kabuli_Chr03	1532808	AA	CC	CC	INTERGENIC		
SNP_12827_A_1532809	NC_021162.1	Ca_Kabuli_Chr03	1532809	GG	AA	AA	INTERGENIC		
SNP_12828_A_1532866	NC_021162.1	Ca_Kabuli_Chr03	1532866	AA	CC	CC	INTERGENIC		
SNP_12829_A_1533019	NC_021162.1	Ca_Kabuli_Chr03	1533019	GG	AA	AA	INTERGENIC		
SNP_12830_A_1533039	NC_021162.1	Ca_Kabuli_Chr03	1533039	AA	GG	GG	INTERGENIC		
SNP_12831_A_1533044	NC_021162.1	Ca_Kabuli_Chr03	1533044	AA	GG	GG	INTERGENIC		
SNP_12832_A_1533063	NC_021162.1	Ca_Kabuli_Chr03	1533063	TT	GG	GG	INTERGENIC		
SNP_12833_A_1533228	NC_021162.1	Ca_Kabuli_Chr03	1533228	AA	CC	CC	INTERGENIC		
SNP_12834_A_1533230	NC_021162.1	Ca_Kabuli_Chr03	1533230	TT	AA	AA	INTERGENIC		
SNP_12835_A_1533266	NC_021162.1	Ca_Kabuli_Chr03	1533266	GG	CC	CC	INTERGENIC		
SNP_12836_A_1533319	NC_021162.1	Ca_Kabuli_Chr03	1533319	AA	GG	GG	INTERGENIC		
SNP_12837_A_1533341	NC_021162.1	Ca_Kabuli_Chr03	1533341	CC	TT	TT	INTERGENIC		
SNP_12839_A_1533408	NC_021162.1	Ca_Kabuli_Chr03	1533408	CC	AA	AA	INTERGENIC		
SNP_12840_A_1533410	NC_021162.1	Ca_Kabuli_Chr03	1533410	GG	AA	AA	INTERGENIC		
SNP_12841_A_1533560	NC_021162.1	Ca_Kabuli_Chr03	1533560	TT	CC	CC	INTERGENIC		
SNP_12842_A_1533706	NC_021162.1	Ca_Kabuli_Chr03	1533706	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12843_A_1533711	NC_021162.1	Ca_Kabuli_Chr03	1533711	TT	CC	CC	INTERGENIC		
SNP_12844_A_1533885	NC_021162.1	Ca_Kabuli_Chr03	1533885	TT	CC	CC	INTERGENIC		
SNP_12846_A_1534140	NC_021162.1	Ca_Kabuli_Chr03	1534140	AA	GG	GG	INTERGENIC		
SNP_12847_A_1534278	NC_021162.1	Ca_Kabuli_Chr03	1534278	AA	CC	CC	INTERGENIC		
SNP_12848_A_1534371	NC_021162.1	Ca_Kabuli_Chr03	1534371	TT	AA	AA	INTERGENIC		
SNP_12849_A_1534419	NC_021162.1	Ca_Kabuli_Chr03	1534419	CC	TT	TT	INTERGENIC		
SNP_12850_A_1534459	NC_021162.1	Ca_Kabuli_Chr03	1534459	TT	AA	AA	INTERGENIC		
SNP_12851_A_1534509	NC_021162.1	Ca_Kabuli_Chr03	1534509	GG	AA	AA	INTERGENIC		
SNP_12852_A_1534631	NC_021162.1	Ca_Kabuli_Chr03	1534631	AA	CC	CC	INTERGENIC		
SNP_12853_A_1534763	NC_021162.1	Ca_Kabuli_Chr03	1534763	CC	TT	TT	INTERGENIC		
SNP_12854_A_1534806	NC_021162.1	Ca_Kabuli_Chr03	1534806	GG	AA	AA	INTERGENIC		
SNP_12855_A_1546100	NC_021162.1	Ca_Kabuli_Chr03	1546100	TT	CC	CC	STOP_LOST	101510769	uncharacterized LOC101510769
SNP_12856_A_1547263	NC_021162.1	Ca_Kabuli_Chr03	1547263	CC	TT	TT	INTRON	101510769	uncharacterized LOC101510769
SNP_12857_A_1566101	NC_021162.1	Ca_Kabuli_Chr03	1566101	TT	CC	CC	INTERGENIC		
SNP_12859_A_1650689	NC_021162.1	Ca_Kabuli_Chr03	1650689	AA	GG	GG	INTERGENIC		
SNP_12860_A_1657145	NC_021162.1	Ca_Kabuli_Chr03	1657145	GG	AA	AA	INTERGENIC		
SNP_12861_A_1718188	NC_021162.1	Ca_Kabuli_Chr03	1718188	TT	CC	CC	INTERGENIC		
SNP_12862_A_1796233	NC_021162.1	Ca_Kabuli_Chr03	1796233	CC	TT	TT	INTERGENIC		
SNP_12863_A_1796238	NC_021162.1	Ca_Kabuli_Chr03	1796238	TT	CC	CC	INTERGENIC		
SNP_12864_A_1796242	NC_021162.1	Ca_Kabuli_Chr03	1796242	CC	TT	TT	INTERGENIC		
SNP_12865_A_1796251	NC_021162.1	Ca_Kabuli_Chr03	1796251	AA	GG	GG	INTERGENIC		
SNP_12866_A_1796272	NC_021162.1	Ca_Kabuli_Chr03	1796272	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12867_A_1796370	NC_021162.1	Ca_Kabuli_Chr03	1796370	AA	CC	CC	INTERGENIC		
SNP_12868_A_1796373	NC_021162.1	Ca_Kabuli_Chr03	1796373	GG	AA	AA	INTERGENIC		
SNP_12869_A_1796380	NC_021162.1	Ca_Kabuli_Chr03	1796380	CC	TT	TT	INTERGENIC		
SNP_12870_A_1796425	NC_021162.1	Ca_Kabuli_Chr03	1796425	CC	TT	TT	INTERGENIC		
SNP_12872_A_1796699	NC_021162.1	Ca_Kabuli_Chr03	1796699	TT	CC	CC	INTERGENIC		
SNP_12873_A_1796717	NC_021162.1	Ca_Kabuli_Chr03	1796717	AA	GG	GG	INTERGENIC		
SNP_12874_A_1828968	NC_021162.1	Ca_Kabuli_Chr03	1828968	AA	GG	GG	INTERGENIC		
SNP_12875_A_1869905	NC_021162.1	Ca_Kabuli_Chr03	1869905	TT	AA	AA	INTERGENIC		
SNP_12876_A_1872261	NC_021162.1	Ca_Kabuli_Chr03	1872261	AA	GG	GG	INTERGENIC		
SNP_12877_A_1924160	NC_021162.1	Ca_Kabuli_Chr03	1924160	AA	GG	GG	INTERGENIC		
SNP_12878_A_1966084	NC_021162.1	Ca_Kabuli_Chr03	1966084	CC	AA	AA	INTERGENIC		
SNP_12879_A_1994208	NC_021162.1	Ca_Kabuli_Chr03	1994208	AA	GG	GG	INTERGENIC		
SNP_12881_A_2065853	NC_021162.1	Ca_Kabuli_Chr03	2065853	TT	AA	AA	INTERGENIC		
SNP_12882_A_2122350	NC_021162.1	Ca_Kabuli_Chr03	2122350	CC	TT	TT	INTERGENIC		
SNP_12884_A_2182313	NC_021162.1	Ca_Kabuli_Chr03	2182313	AA	GG	GG	INTERGENIC		
SNP_12885_A_2194503	NC_021162.1	Ca_Kabuli_Chr03	2194503	GG	AA	AA	INTERGENIC		
SNP_12886_A_2194692	NC_021162.1	Ca_Kabuli_Chr03	2194692	GG	TT	TT	INTERGENIC		
SNP_12887_A_2194715	NC_021162.1	Ca_Kabuli_Chr03	2194715	TT	AA	AA	INTERGENIC		
SNP_12889_A_2194738	NC_021162.1	Ca_Kabuli_Chr03	2194738	TT	CC	CC	INTERGENIC		
SNP_12890_A_2206622	NC_021162.1	Ca_Kabuli_Chr03	2206622	GG	AA	AA	INTRON	101513993	Unknown function
SNP_12891_A_2210460	NC_021162.1	Ca_Kabuli_Chr03	2210460	TT	CC	CC	URR	101513993	Unknown function
SNP_12892_A_2260030	NC_021162.1	Ca_Kabuli_Chr03	2260030	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12893_A_2260444	NC_021162.1	Ca_Kabuli_Chr03	2260444	GG	AA	AA	INTERGENIC			
SNP_12895_A_2308010	NC_021162.1	Ca_Kabuli_Chr03	2308010	TT	GG	GG	INTERGENIC			
SNP_12897_A_2341411	NC_021162.1	Ca_Kabuli_Chr03	2341411	GG	AA	AA	INTERGENIC			
SNP_12898_A_2365556	NC_021162.1	Ca_Kabuli_Chr03	2365556	CC	AA	AA	INTERGENIC			
SNP_12899_A_2382525	NC_021162.1	Ca_Kabuli_Chr03	2382525	CC	AA	AA	INTERGENIC			
SNP_12900_A_2382590	NC_021162.1	Ca_Kabuli_Chr03	2382590	AA	CC	CC	INTERGENIC			
SNP_12901_A_2382636	NC_021162.1	Ca_Kabuli_Chr03	2382636	TT	AA	AA	INTERGENIC			
SNP_12902_A_2384745	NC_021162.1	Ca_Kabuli_Chr03	2384745	TT	GG	GG	INTERGENIC			
SNP_12903_A_2387855	NC_021162.1	Ca_Kabuli_Chr03	2387855	AA	GG	GG	INTERGENIC			
SNP_12904_A_2414956	NC_021162.1	Ca_Kabuli_Chr03	2414956	AA	GG	GG	INTERGENIC			
SNP_12907_A_2442094	NC_021162.1	Ca_Kabuli_Chr03	2442094	CC	AA	AA	INTERGENIC			
SNP_12908_A_2496733	NC_021162.1	Ca_Kabuli_Chr03	2496733	GG	AA	AA	INTERGENIC			
SNP_12909_A_2571335	NC_021162.1	Ca_Kabuli_Chr03	2571335	AA	GG	GG	INTERGENIC			
SNP_12910_A_2571487	NC_021162.1	Ca_Kabuli_Chr03	2571487	AA	TT	TT	INTERGENIC			
SNP_12911_A_2571517	NC_021162.1	Ca_Kabuli_Chr03	2571517	AA	CC	CC	INTERGENIC			
SNP_12912_A_2571572	NC_021162.1	Ca_Kabuli_Chr03	2571572	CC	GG	GG	INTERGENIC			
SNP_12913_A_2573694	NC_021162.1	Ca_Kabuli_Chr03	2573694	AA	CC	CC	INTERGENIC			
SNP_12914_A_2573705	NC_021162.1	Ca_Kabuli_Chr03	2573705	GG	AA	AA	INTERGENIC			
SNP_12915_A_2573707	NC_021162.1	Ca_Kabuli_Chr03	2573707	GG	AA	AA	INTERGENIC			
SNP_12916_A_2573753	NC_021162.1	Ca_Kabuli_Chr03	2573753	CC	GG	GG	INTERGENIC			
SNP_12917_A_2573763	NC_021162.1	Ca_Kabuli_Chr03	2573763	TT	GG	GG	INTERGENIC			
SNP_12918_A_2631120	NC_021162.1	Ca_Kabuli_Chr03	2631120	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12919_A_2631149	NC_021162.1	Ca_Kabuli_Chr03	2631149	TT	CC	CC	INTERGENIC			
SNP_12920_A_2631150	NC_021162.1	Ca_Kabuli_Chr03	2631150	AA	GG	GG	INTERGENIC			
SNP_12921_A_2631164	NC_021162.1	Ca_Kabuli_Chr03	2631164	GG	AA	AA	INTERGENIC			
SNP_12922_A_2631188	NC_021162.1	Ca_Kabuli_Chr03	2631188	GG	AA	AA	INTERGENIC			
SNP_12923_A_2631205	NC_021162.1	Ca_Kabuli_Chr03	2631205	AA	GG	GG	INTERGENIC			
SNP_12924_A_2631222	NC_021162.1	Ca_Kabuli_Chr03	2631222	GG	AA	AA	INTERGENIC			
SNP_12925_A_2631237	NC_021162.1	Ca_Kabuli_Chr03	2631237	GG	TT	TT	INTERGENIC			
SNP_12926_A_2631241	NC_021162.1	Ca_Kabuli_Chr03	2631241	CC	GG	GG	INTERGENIC			
SNP_12927_A_2631250	NC_021162.1	Ca_Kabuli_Chr03	2631250	CC	TT	TT	INTERGENIC			
SNP_12928_A_2631466	NC_021162.1	Ca_Kabuli_Chr03	2631466	TT	CC	CC	INTERGENIC			
SNP_12929_A_2631553	NC_021162.1	Ca_Kabuli_Chr03	2631553	GG	AA	AA	INTERGENIC			
SNP_12930_A_2631569	NC_021162.1	Ca_Kabuli_Chr03	2631569	AA	GG	GG	INTERGENIC			
SNP_12931_A_2631582	NC_021162.1	Ca_Kabuli_Chr03	2631582	TT	GG	GG	INTERGENIC			
SNP_12932_A_2631589	NC_021162.1	Ca_Kabuli_Chr03	2631589	GG	AA	AA	INTERGENIC			
SNP_12933_A_2631593	NC_021162.1	Ca_Kabuli_Chr03	2631593	TT	CC	CC	INTERGENIC			
SNP_12934_A_2686345	NC_021162.1	Ca_Kabuli_Chr03	2686345	GG	AA	AA	INTERGENIC			
SNP_12935_A_2692072	NC_021162.1	Ca_Kabuli_Chr03	2692072	TT	AA	AA	INTERGENIC			
SNP_12936_A_2712514	NC_021162.1	Ca_Kabuli_Chr03	2712514	TT	AA	AA	INTERGENIC			
SNP_12937_A_2712516	NC_021162.1	Ca_Kabuli_Chr03	2712516	TT	CC	CC	INTERGENIC			
SNP_12938_A_2717674	NC_021162.1	Ca_Kabuli_Chr03	2717674	GG	AA	AA	INTERGENIC			
SNP_12939_A_2717687	NC_021162.1	Ca_Kabuli_Chr03	2717687	AA	GG	GG	INTERGENIC			
SNP_12940_A_2736617	NC_021162.1	Ca_Kabuli_Chr03	2736617	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12941_A_2762578	NC_021162.1	Ca_Kabuli_Chr03	2762578	CC	AA	AA	INTERGENIC		
SNP_12942_A_2764763	NC_021162.1	Ca_Kabuli_Chr03	2764763	CC	TT	TT	INTERGENIC		
SNP_12943_A_2767481	NC_021162.1	Ca_Kabuli_Chr03	2767481	TT	GG	GG	INTERGENIC		
SNP_12944_A_2767493	NC_021162.1	Ca_Kabuli_Chr03	2767493	GG	AA	AA	INTERGENIC		
SNP_12945_A_2767542	NC_021162.1	Ca_Kabuli_Chr03	2767542	GG	TT	TT	INTERGENIC		
SNP_12946_A_2767548	NC_021162.1	Ca_Kabuli_Chr03	2767548	AA	GG	GG	INTERGENIC		
SNP_12947_A_2767612	NC_021162.1	Ca_Kabuli_Chr03	2767612	TT	CC	CC	INTERGENIC		
SNP_12948_A_2767747	NC_021162.1	Ca_Kabuli_Chr03	2767747	CC	TT	TT	INTERGENIC		
SNP_12949_A_2767775	NC_021162.1	Ca_Kabuli_Chr03	2767775	AA	GG	GG	INTERGENIC		
SNP_12950_A_2816925	NC_021162.1	Ca_Kabuli_Chr03	2816925	CC	AA	AA	INTRON	101496608	Unknown function
SNP_12951_A_2855217	NC_021162.1	Ca_Kabuli_Chr03	2855217	GG	AA	AA	INTERGENIC		
SNP_12952_A_2855225	NC_021162.1	Ca_Kabuli_Chr03	2855225	CC	TT	TT	INTERGENIC		
SNP_12953_A_2855246	NC_021162.1	Ca_Kabuli_Chr03	2855246	GG	CC	CC	INTERGENIC		
SNP_12954_A_2855322	NC_021162.1	Ca_Kabuli_Chr03	2855322	TT	CC	CC	INTERGENIC		
SNP_12955_A_2855344	NC_021162.1	Ca_Kabuli_Chr03	2855344	AA	GG	GG	INTERGENIC		
SNP_12956_A_2855360	NC_021162.1	Ca_Kabuli_Chr03	2855360	CC	TT	TT	INTERGENIC		
SNP_12957_A_2855441	NC_021162.1	Ca_Kabuli_Chr03	2855441	AA	GG	GG	INTERGENIC		
SNP_12958_A_2855486	NC_021162.1	Ca_Kabuli_Chr03	2855486	TT	GG	GG	INTERGENIC		
SNP_12959_A_2855488	NC_021162.1	Ca_Kabuli_Chr03	2855488	AA	GG	GG	INTERGENIC		
SNP_12960_A_2855512	NC_021162.1	Ca_Kabuli_Chr03	2855512	AA	TT	TT	INTERGENIC		
SNP_12961_A_2855532	NC_021162.1	Ca_Kabuli_Chr03	2855532	AA	GG	GG	INTERGENIC		
SNP_12962_A_2855540	NC_021162.1	Ca_Kabuli_Chr03	2855540	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_12963_A_2855560	NC_021162.1	Ca_Kabuli_Chr03	2855550	TT	CC	CC	INTERGENIC			
SNP_12964_A_2855608	NC_021162.1	Ca_Kabuli_Chr03	2855608	CC	TT	TT	INTERGENIC			
SNP_12965_A_2855611	NC_021162.1	Ca_Kabuli_Chr03	2855611	CC	TT	TT	INTERGENIC			
SNP_12966_A_2855612	NC_021162.1	Ca_Kabuli_Chr03	2855612	CC	AA	AA	INTERGENIC			
SNP_12967_A_2855676	NC_021162.1	Ca_Kabuli_Chr03	2855676	GG	TT	TT	INTERGENIC			
SNP_12968_A_2855741	NC_021162.1	Ca_Kabuli_Chr03	2855741	CC	GG	GG	INTERGENIC			
SNP_12969_A_2855776	NC_021162.1	Ca_Kabuli_Chr03	2855776	AA	GG	GG	INTERGENIC			
SNP_12970_A_2855803	NC_021162.1	Ca_Kabuli_Chr03	2855803	AA	CC	CC	INTERGENIC			
SNP_12971_A_2855812	NC_021162.1	Ca_Kabuli_Chr03	2855812	TT	CC	CC	INTERGENIC			
SNP_12972_A_2855848	NC_021162.1	Ca_Kabuli_Chr03	2855848	CC	AA	AA	INTERGENIC			
SNP_12973_A_2855858	NC_021162.1	Ca_Kabuli_Chr03	2855858	GG	TT	TT	INTERGENIC			
SNP_12974_A_2855949	NC_021162.1	Ca_Kabuli_Chr03	2855949	GG	AA	AA	INTERGENIC			
SNP_12975_A_2855965	NC_021162.1	Ca_Kabuli_Chr03	2855965	CC	GG	GG	INTERGENIC			
SNP_12977_A_2856020	NC_021162.1	Ca_Kabuli_Chr03	2856020	CC	GG	GG	INTERGENIC			
SNP_12978_A_2856038	NC_021162.1	Ca_Kabuli_Chr03	2856038	TT	CC	CC	INTERGENIC			
SNP_12979_A_2856050	NC_021162.1	Ca_Kabuli_Chr03	2856050	AA	GG	GG	INTERGENIC			
SNP_12980_A_2856064	NC_021162.1	Ca_Kabuli_Chr03	2856064	GG	TT	TT	INTERGENIC			
SNP_12981_A_2856181	NC_021162.1	Ca_Kabuli_Chr03	2856181	CC	TT	TT	INTERGENIC			
SNP_12982_A_2856194	NC_021162.1	Ca_Kabuli_Chr03	2856194	CC	TT	TT	INTERGENIC			
SNP_12983_A_2856233	NC_021162.1	Ca_Kabuli_Chr03	2856233	CC	TT	TT	INTERGENIC			
SNP_12984_A_2856311	NC_021162.1	Ca_Kabuli_Chr03	2856311	CC	GG	GG	INTERGENIC			
SNP_12985_A_2856321	NC_021162.1	Ca_Kabuli_Chr03	2856321	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_12986_A_2856361	NC_021162.1	Ca_Kabuli_Chr03	2856361	CC	TT	TT	INTERGENIC		
SNP_12987_A_2856380	NC_021162.1	Ca_Kabuli_Chr03	2856380	AA	GG	GG	INTERGENIC		
SNP_12988_A_2856390	NC_021162.1	Ca_Kabuli_Chr03	2856390	TT	CC	CC	INTERGENIC		
SNP_12989_A_2856406	NC_021162.1	Ca_Kabuli_Chr03	2856406	GG	AA	AA	INTERGENIC		
SNP_12990_A_2856436	NC_021162.1	Ca_Kabuli_Chr03	2856436	AA	CC	CC	INTERGENIC		
SNP_12991_A_2856468	NC_021162.1	Ca_Kabuli_Chr03	2856468	AA	GG	GG	INTERGENIC		
SNP_12992_A_2856497	NC_021162.1	Ca_Kabuli_Chr03	2856497	GG	TT	TT	INTERGENIC		
SNP_12993_A_2858357	NC_021162.1	Ca_Kabuli_Chr03	2858357	AA	CC	CC	INTERGENIC		
SNP_12994_A_2858389	NC_021162.1	Ca_Kabuli_Chr03	2858389	GG	AA	AA	INTERGENIC		
SNP_12995_A_2878279	NC_021162.1	Ca_Kabuli_Chr03	2878279	TT	AA	AA	INTERGENIC		
SNP_12996_A_2885132	NC_021162.1	Ca_Kabuli_Chr03	2885132	AA	GG	GG	INTERGENIC		
SNP_12997_A_2903010	NC_021162.1	Ca_Kabuli_Chr03	2903010	GG	AA	AA	URR	101492274	proline dehydrogenase 2, mitochondrial-like
SNP_12999_A_2931788	NC_021162.1	Ca_Kabuli_Chr03	2931788	TT	AA	AA	INTRON	101493155	cell division cycle protein 27 homolog B-like
SNP_13000_A_2931792	NC_021162.1	Ca_Kabuli_Chr03	2931792	TT	GG	GG	INTRON	101493155	cell division cycle protein 27 homolog B-like
SNP_13001_A_2932033	NC_021162.1	Ca_Kabuli_Chr03	2932033	CC	AA	AA	INTRON	101493155	cell division cycle protein 27 homolog B-like
SNP_13002_A_2954902	NC_021162.1	Ca_Kabuli_Chr03	2954902	TT	CC	CC	INTERGENIC		
SNP_13003_A_2954910	NC_021162.1	Ca_Kabuli_Chr03	2954910	GG	AA	AA	INTERGENIC		
SNP_13005_A_2989574	NC_021162.1	Ca_Kabuli_Chr03	2989574	AA	GG	GG	INTERGENIC		
SNP_13008_A_3063834	NC_021162.1	Ca_Kabuli_Chr03	3063834	TT	CC	CC	INTERGENIC		
SNP_13009_A_3117702	NC_021162.1	Ca_Kabuli_Chr03	3117702	AA	TT	TT	INTERGENIC		
SNP_13010_A_3120554	NC_021162.1	Ca_Kabuli_Chr03	3120554	CC	GG	GG	INTERGENIC		
SNP_13011_A_3120570	NC_021162.1	Ca_Kabuli_Chr03	3120570	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13012_A_3128996	NC_021162.1	Ca_Kabuli_Chr03	3128996	AA	GG	GG	INTERGENIC			
SNP_13013_A_3129049	NC_021162.1	Ca_Kabuli_Chr03	3129049	TT	GG	GG	INTERGENIC			
SNP_13014_A_3129547	NC_021162.1	Ca_Kabuli_Chr03	3129547	CC	TT	TT	INTERGENIC			
SNP_13015_A_3149542	NC_021162.1	Ca_Kabuli_Chr03	3149542	GG	AA	AA	INTERGENIC			
SNP_13016_A_3151408	NC_021162.1	Ca_Kabuli_Chr03	3151408	CC	TT	TT	INTERGENIC			
SNP_13017_A_3155738	NC_021162.1	Ca_Kabuli_Chr03	3155738	CC	AA	AA	INTERGENIC			
SNP_13018_A_3155747	NC_021162.1	Ca_Kabuli_Chr03	3155747	GG	AA	AA	INTERGENIC			
SNP_13019_A_3170826	NC_021162.1	Ca_Kabuli_Chr03	3170826	TT	GG	GG	INTERGENIC			
SNP_13020_A_3170887	NC_021162.1	Ca_Kabuli_Chr03	3170887	CC	TT	TT	INTERGENIC			
SNP_13021_A_3170936	NC_021162.1	Ca_Kabuli_Chr03	3170936	GG	AA	AA	INTERGENIC			
SNP_13023_A_3216272	NC_021162.1	Ca_Kabuli_Chr03	3216272	AA	GG	GG	INTERGENIC			
SNP_13024_A_3235163	NC_021162.1	Ca_Kabuli_Chr03	3235163	GG	CC	CC	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13026_A_3235442	NC_021162.1	Ca_Kabuli_Chr03	3235442	AA	GG	GG	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13028_A_3235491	NC_021162.1	Ca_Kabuli_Chr03	3235491	CC	TT	TT	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13029_A_3235536	NC_021162.1	Ca_Kabuli_Chr03	3235536	AA	GG	GG	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13031_A_3235751	NC_021162.1	Ca_Kabuli_Chr03	3235751	TT	CC	CC	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13032_A_3235789	NC_021162.1	Ca_Kabuli_Chr03	3235789	CC	AA	AA	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13033_A_3235799	NC_021162.1	Ca_Kabuli_Chr03	3235799	CC	AA	AA	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13034_A_3235814	NC_021162.1	Ca_Kabuli_Chr03	3235814	GG	CC	CC	DRR	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13035_A_3235887	NC_021162.1	Ca_Kabuli_Chr03	3235887	GG	TT	TT	NON_SYNONYMOUS_CODING	101500496	ATPase family AAA domain-containing protein 2-like	
SNP_13036_A_3267134	NC_021162.1	Ca_Kabuli_Chr03	3267134	TT	GG	GG	INTERGENIC			
SNP_13037_A_3272989	NC_021162.1	Ca_Kabuli_Chr03	3272989	AA	CC	CC	DRR	101497583	uncharacterized protein At3g28850	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13039_A_3289512	NC_021162.1	Ca_Kabuli_Chr03	3289512	AA	TT	TT	INTERGENIC			
SNP_13040_A_3289570	NC_021162.1	Ca_Kabuli_Chr03	3289570	GG	AA	AA	INTERGENIC			
SNP_13041_A_3289590	NC_021162.1	Ca_Kabuli_Chr03	3289590	TT	GG	GG	INTERGENIC			
SNP_13042_A_3289860	NC_021162.1	Ca_Kabuli_Chr03	3289860	AA	GG	GG	INTERGENIC			
SNP_13043_A_3289890	NC_021162.1	Ca_Kabuli_Chr03	3289890	TT	CC	CC	INTERGENIC			
SNP_13044_A_3289913	NC_021162.1	Ca_Kabuli_Chr03	3289913	AA	TT	TT	INTERGENIC			
SNP_13045_A_3289952	NC_021162.1	Ca_Kabuli_Chr03	3289952	TT	CC	CC	INTERGENIC			
SNP_13046_A_3291641	NC_021162.1	Ca_Kabuli_Chr03	3291641	AA	GG	GG	INTERGENIC			
SNP_13047_A_3291656	NC_021162.1	Ca_Kabuli_Chr03	3291656	GG	TT	TT	INTERGENIC			
SNP_13048_A_3291688	NC_021162.1	Ca_Kabuli_Chr03	3291688	GG	AA	AA	INTERGENIC			
SNP_13049_A_3291697	NC_021162.1	Ca_Kabuli_Chr03	3291697	AA	GG	GG	INTERGENIC			
SNP_13050_A_3291742	NC_021162.1	Ca_Kabuli_Chr03	3291742	GG	AA	AA	INTERGENIC			
SNP_13051_A_3291746	NC_021162.1	Ca_Kabuli_Chr03	3291746	CC	TT	TT	INTERGENIC			
SNP_13052_A_3291751	NC_021162.1	Ca_Kabuli_Chr03	3291751	AA	TT	TT	INTERGENIC			
SNP_13053_A_3291800	NC_021162.1	Ca_Kabuli_Chr03	3291800	AA	GG	GG	INTERGENIC			
SNP_13054_A_3291802	NC_021162.1	Ca_Kabuli_Chr03	3291802	AA	GG	GG	INTERGENIC			
SNP_13055_A_3291907	NC_021162.1	Ca_Kabuli_Chr03	3291907	CC	AA	AA	INTERGENIC			
SNP_13056_A_3306471	NC_021162.1	Ca_Kabuli_Chr03	3306471	AA	GG	GG	INTERGENIC			
SNP_13057_A_3306586	NC_021162.1	Ca_Kabuli_Chr03	3306586	TT	CC	CC	INTERGENIC			
SNP_13058_A_3339551	NC_021162.1	Ca_Kabuli_Chr03	3339551	GG	AA	AA	INTERGENIC			
SNP_13059_A_3339625	NC_021162.1	Ca_Kabuli_Chr03	3339625	GG	AA	AA	INTERGENIC			
SNP_13060_A_3356806	NC_021162.1	Ca_Kabuli_Chr03	3356806	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13061_A_3356810	NC_021162.1	Ca_Kabuli_Chr03	3356810	GG	AA	AA	INTERGENIC		
SNP_13062_A_3377498	NC_021162.1	Ca_Kabuli_Chr03	3377498	CC	TT	TT	INTERGENIC		
SNP_13063_A_3385175	NC_021162.1	Ca_Kabuli_Chr03	3385175	TT	GG	GG	INTERGENIC		
SNP_13064_A_3392065	NC_021162.1	Ca_Kabuli_Chr03	3392065	AA	TT	TT	INTERGENIC		
SNP_13067_A_3462028	NC_021162.1	Ca_Kabuli_Chr03	3462028	AA	GG	GG	INTERGENIC		
SNP_13068_A_3498572	NC_021162.1	Ca_Kabuli_Chr03	3498572	AA	GG	GG	INTERGENIC		
SNP_13069_A_3500408	NC_021162.1	Ca_Kabuli_Chr03	3500408	GG	AA	AA	INTERGENIC		
SNP_13070_A_3500414	NC_021162.1	Ca_Kabuli_Chr03	3500414	AA	CC	CC	INTERGENIC		
SNP_13071_A_3503311	NC_021162.1	Ca_Kabuli_Chr03	3503311	GG	AA	AA	DRR	101501768	60S acidic ribosomal protein P1-3-like
SNP_13072_A_3503313	NC_021162.1	Ca_Kabuli_Chr03	3503313	AA	TT	TT	DRR	101501768	60S acidic ribosomal protein P1-3-like
SNP_13073_A_3503317	NC_021162.1	Ca_Kabuli_Chr03	3503317	GG	CC	CC	DRR	101501768	60S acidic ribosomal protein P1-3-like
SNP_13074_A_3503322	NC_021162.1	Ca_Kabuli_Chr03	3503322	GG	AA	AA	DRR	101501768	60S acidic ribosomal protein P1-3-like
SNP_13075_A_3503812	NC_021162.1	Ca_Kabuli_Chr03	3503812	AA	TT	TT	DRR	101501768	60S acidic ribosomal protein P1-3-like
SNP_13076_A_3517501	NC_021162.1	Ca_Kabuli_Chr03	3517501	GG	AA	AA	INTERGENIC		
SNP_13078_A_3517871	NC_021162.1	Ca_Kabuli_Chr03	3517871	TT	GG	GG	INTERGENIC		
SNP_13079_A_3517913	NC_021162.1	Ca_Kabuli_Chr03	3517913	GG	AA	AA	INTERGENIC		
SNP_13080_A_3531706	NC_021162.1	Ca_Kabuli_Chr03	3531706	GG	AA	AA	INTERGENIC		
SNP_13081_A_3531756	NC_021162.1	Ca_Kabuli_Chr03	3531756	AA	TT	TT	INTERGENIC		
SNP_13082_A_3533590	NC_021162.1	Ca_Kabuli_Chr03	3533590	GG	CC	CC	URR	101502621	uncharacterized LOC101502621
SNP_13083_A_3535079	NC_021162.1	Ca_Kabuli_Chr03	3535079	CC	TT	TT	DRR	101508938	60S acidic ribosomal protein P1-3-like
SNP_13084_A_3535409	NC_021162.1	Ca_Kabuli_Chr03	3535409	TT	CC	CC	DRR	101508938	60S acidic ribosomal protein P1-3-like
SNP_13085_A_3535646	NC_021162.1	Ca_Kabuli_Chr03	3535646	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13086_A_3535678	NC_021162.1	Ca_Kabuli_Chr03	3535678	CC	TT	TT	INTERGENIC		
SNP_13087_A_3537002	NC_021162.1	Ca_Kabuli_Chr03	3537002	AA	CC	CC	INTERGENIC		
SNP_13088_A_3537075	NC_021162.1	Ca_Kabuli_Chr03	3537075	AA	GG	GG	INTERGENIC		
SNP_13089_A_3537147	NC_021162.1	Ca_Kabuli_Chr03	3537147	GG	CC	CC	INTERGENIC		
SNP_13090_A_3537176	NC_021162.1	Ca_Kabuli_Chr03	3537176	AA	GG	GG	INTERGENIC		
SNP_13091_A_3537311	NC_021162.1	Ca_Kabuli_Chr03	3537311	TT	CC	CC	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13092_A_3537312	NC_021162.1	Ca_Kabuli_Chr03	3537312	CC	AA	AA	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13093_A_3537360	NC_021162.1	Ca_Kabuli_Chr03	3537360	AA	GG	GG	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13094_A_3537405	NC_021162.1	Ca_Kabuli_Chr03	3537405	CC	TT	TT	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13095_A_3537584	NC_021162.1	Ca_Kabuli_Chr03	3537584	TT	CC	CC	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13096_A_3537585	NC_021162.1	Ca_Kabuli_Chr03	3537585	TT	CC	CC	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13098_A_3542315	NC_021162.1	Ca_Kabuli_Chr03	3542315	TT	GG	GG	INTRON	101508938	60S acidic ribosomal protein P1-3-like
SNP_13099_A_3580684	NC_021162.1	Ca_Kabuli_Chr03	3580684	TT	CC	CC	INTERGENIC		
SNP_13100_A_3583168	NC_021162.1	Ca_Kabuli_Chr03	3583168	CC	AA	AA	INTERGENIC		
SNP_13101_A_3587340	NC_021162.1	Ca_Kabuli_Chr03	3587340	CC	TT	TT	INTERGENIC		
SNP_13102_A_3608245	NC_021162.1	Ca_Kabuli_Chr03	3608245	AA	TT	TT	INTERGENIC		
SNP_13103_A_3629354	NC_021162.1	Ca_Kabuli_Chr03	3629354	CC	TT	TT	INTERGENIC		
SNP_13105_A_3646793	NC_021162.1	Ca_Kabuli_Chr03	3646793	AA	GG	GG	INTERGENIC		
SNP_13106_A_3646795	NC_021162.1	Ca_Kabuli_Chr03	3646795	TT	CC	CC	INTERGENIC		
SNP_13107_A_3688411	NC_021162.1	Ca_Kabuli_Chr03	3688411	CC	AA	AA	INTERGENIC		
SNP_13108_A_3691795	NC_021162.1	Ca_Kabuli_Chr03	3691795	AA	GG	GG	INTERGENIC		
SNP_13109_A_3708772	NC_021162.1	Ca_Kabuli_Chr03	3708772	TT	GG	GG	INTRON	101504331	uncharacterized LOC101504331

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13110_A_3731127	NC_021162.1	Ca_Kabuli_Chr03	3731127	AA	CC	CC	INTERGENIC			
SNP_13111_A_3731404	NC_021162.1	Ca_Kabuli_Chr03	3731404	AA	CC	CC	INTERGENIC			
SNP_13112_A_3731445	NC_021162.1	Ca_Kabuli_Chr03	3731445	TT	AA	AA	INTERGENIC			
SNP_13113_A_3731452	NC_021162.1	Ca_Kabuli_Chr03	3731452	AA	GG	GG	INTERGENIC			
SNP_13114_A_3731466	NC_021162.1	Ca_Kabuli_Chr03	3731466	TT	AA	AA	INTERGENIC			
SNP_13115_A_3731482	NC_021162.1	Ca_Kabuli_Chr03	3731482	CC	GG	GG	INTERGENIC			
SNP_13116_A_3734857	NC_021162.1	Ca_Kabuli_Chr03	3734857	TT	CC	CC	INTERGENIC			
SNP_13117_A_3734918	NC_021162.1	Ca_Kabuli_Chr03	3734918	TT	CC	CC	INTERGENIC			
SNP_13118_A_3734973	NC_021162.1	Ca_Kabuli_Chr03	3734973	AA	CC	CC	INTERGENIC			
SNP_13119_A_3746153	NC_021162.1	Ca_Kabuli_Chr03	3746153	TT	CC	CC	URR	101504881	multiple organellar RNA editing factor 6, mitochondrial-like	
SNP_13120_A_3754491	NC_021162.1	Ca_Kabuli_Chr03	3754491	GG	AA	AA	INTERGENIC			
SNP_13121_A_3787239	NC_021162.1	Ca_Kabuli_Chr03	3787239	AA	TT	TT	INTERGENIC			
SNP_13122_A_3787362	NC_021162.1	Ca_Kabuli_Chr03	3787362	CC	AA	AA	INTERGENIC			
SNP_13123_A_3789202	NC_021162.1	Ca_Kabuli_Chr03	3789202	TT	CC	CC	INTERGENIC			
SNP_13124_A_3797029	NC_021162.1	Ca_Kabuli_Chr03	3797029	GG	AA	AA	INTERGENIC			
SNP_13125_A_3804458	NC_021162.1	Ca_Kabuli_Chr03	3804458	TT	CC	CC	INTERGENIC			
SNP_13126_A_3804516	NC_021162.1	Ca_Kabuli_Chr03	3804516	CC	TT	TT	INTERGENIC			
SNP_13127_A_3804555	NC_021162.1	Ca_Kabuli_Chr03	3804555	AA	GG	GG	INTERGENIC			
SNP_13128_A_3804627	NC_021162.1	Ca_Kabuli_Chr03	3804627	GG	AA	AA	INTERGENIC			
SNP_13130_A_3818085	NC_021162.1	Ca_Kabuli_Chr03	3818085	AA	GG	GG	INTERGENIC			
SNP_13131_A_3818120	NC_021162.1	Ca_Kabuli_Chr03	3818120	AA	GG	GG	INTERGENIC			
SNP_13132_A_3818135	NC_021162.1	Ca_Kabuli_Chr03	3818135	CC	GG	GG	INTERGENIC			

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SNP_13133_A_3820417	NC_021162.1	Ca_Kabuli_Chr03	3820417	AA	CC	CC	INTERGENIC			
SNP_13134_A_3842231	NC_021162.1	Ca_Kabuli_Chr03	3842231	GG	TT	TT	INTERGENIC			
SNP_13136_A_3866325	NC_021162.1	Ca_Kabuli_Chr03	3866325	TT	CC	CC	INTERGENIC			
SNP_13137_A_3866326	NC_021162.1	Ca_Kabuli_Chr03	3866326	AA	GG	GG	INTERGENIC			
SNP_13140_A_3884249	NC_021162.1	Ca_Kabuli_Chr03	3884249	TT	GG	GG	INTERGENIC			
SNP_13141_A_3953749	NC_021162.1	Ca_Kabuli_Chr03	3953749	GG	CC	CC	INTRON	101507993	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like	
SNP_13143_A_3962965	NC_021162.1	Ca_Kabuli_Chr03	3962965	GG	AA	AA	INTERGENIC			
SNP_13144_A_3963025	NC_021162.1	Ca_Kabuli_Chr03	3963025	AA	TT	TT	INTERGENIC			
SNP_13145_A_3963159	NC_021162.1	Ca_Kabuli_Chr03	3963159	TT	CC	CC	INTERGENIC			
SNP_13146_A_3963178	NC_021162.1	Ca_Kabuli_Chr03	3963178	GG	AA	AA	INTERGENIC			
SNP_13147_A_3963192	NC_021162.1	Ca_Kabuli_Chr03	3963192	CC	TT	TT	INTERGENIC			
SNP_13148_A_3963202	NC_021162.1	Ca_Kabuli_Chr03	3963202	AA	GG	GG	INTERGENIC			
SNP_13149_A_3963208	NC_021162.1	Ca_Kabuli_Chr03	3963208	AA	TT	TT	INTERGENIC			
SNP_13150_A_3963213	NC_021162.1	Ca_Kabuli_Chr03	3963213	GG	AA	AA	INTERGENIC			
SNP_13151_A_3963246	NC_021162.1	Ca_Kabuli_Chr03	3963246	CC	TT	TT	INTERGENIC			
SNP_13152_A_3963347	NC_021162.1	Ca_Kabuli_Chr03	3963347	AA	GG	GG	INTERGENIC			
SNP_13153_A_3963610	NC_021162.1	Ca_Kabuli_Chr03	3963610	AA	GG	GG	INTERGENIC			
SNP_13154_A_3963613	NC_021162.1	Ca_Kabuli_Chr03	3963613	GG	AA	AA	INTERGENIC			
SNP_13155_A_3963624	NC_021162.1	Ca_Kabuli_Chr03	3963624	AA	GG	GG	INTERGENIC			
SNP_13156_A_3974802	NC_021162.1	Ca_Kabuli_Chr03	3974802	CC	AA	AA	INTERGENIC			
SNP_13157_A_3977987	NC_021162.1	Ca_Kabuli_Chr03	3977987	AA	GG	GG	INTERGENIC			
SNP_13158_A_3978022	NC_021162.1	Ca_Kabuli_Chr03	3978022	GG	TT	TT	INTERGENIC			

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SNP_13159_A_3998057	NC_021162.1	Ca_Kabuli_Chr03	3998057	CC	TT	TT	INTERGENIC			
SNP_13160_A_3999282	NC_021162.1	Ca_Kabuli_Chr03	3999282	CC	TT	TT	INTERGENIC			
SNP_13161_A_4006385	NC_021162.1	Ca_Kabuli_Chr03	4006385	TT	CC	CC	INTERGENIC			
SNP_13162_A_4006386	NC_021162.1	Ca_Kabuli_Chr03	4006386	TT	GG	GG	INTERGENIC			
SNP_13163_A_4017759	NC_021162.1	Ca_Kabuli_Chr03	4017759	TT	CC	CC	INTERGENIC			
SNP_13164_A_4035964	NC_021162.1	Ca_Kabuli_Chr03	4035964	AA	GG	GG	INTERGENIC			
SNP_13165_A_4036016	NC_021162.1	Ca_Kabuli_Chr03	4036016	CC	AA	AA	INTERGENIC			
SNP_13166_A_4036026	NC_021162.1	Ca_Kabuli_Chr03	4036026	AA	GG	GG	INTERGENIC			
SNP_13167_A_4036369	NC_021162.1	Ca_Kabuli_Chr03	4036369	CC	AA	AA	INTERGENIC			
SNP_13168_A_4040916	NC_021162.1	Ca_Kabuli_Chr03	4040916	AA	TT	TT	INTERGENIC			
SNP_13169_A_4041806	NC_021162.1	Ca_Kabuli_Chr03	4041806	TT	CC	CC	INTERGENIC			
SNP_13171_A_4056392	NC_021162.1	Ca_Kabuli_Chr03	4056392	GG	AA	AA	INTERGENIC			
SNP_13172_A_4056452	NC_021162.1	Ca_Kabuli_Chr03	4056452	CC	AA	AA	INTERGENIC			
SNP_13173_A_4056533	NC_021162.1	Ca_Kabuli_Chr03	4056533	AA	GG	GG	INTERGENIC			
SNP_13174_A_4073256	NC_021162.1	Ca_Kabuli_Chr03	4073256	TT	GG	GG	INTERGENIC			
SNP_13175_A_4073322	NC_021162.1	Ca_Kabuli_Chr03	4073322	TT	GG	GG	INTERGENIC			
SNP_13176_A_4073324	NC_021162.1	Ca_Kabuli_Chr03	4073324	GG	AA	AA	INTERGENIC			
SNP_13178_A_4076513	NC_021162.1	Ca_Kabuli_Chr03	4076513	TT	AA	AA	INTERGENIC			
SNP_13179_A_4076534	NC_021162.1	Ca_Kabuli_Chr03	4076534	AA	TT	TT	INTERGENIC			
SNP_13180_A_4076541	NC_021162.1	Ca_Kabuli_Chr03	4076541	AA	TT	TT	INTERGENIC			
SNP_13182_A_4098871	NC_021162.1	Ca_Kabuli_Chr03	4098871	GG	TT	TT	INTERGENIC			
SNP_13183_A_4098876	NC_021162.1	Ca_Kabuli_Chr03	4098876	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13184_A_4098910	NC_021162.1	Ca_Kabuli_Chr03	4098910	TT	AA	AA	INTERGENIC		
SNP_13185_A_4116877	NC_021162.1	Ca_Kabuli_Chr03	4116877	CC	TT	TT	INTERGENIC		
SNP_13186_A_4116914	NC_021162.1	Ca_Kabuli_Chr03	4116914	GG	TT	TT	INTERGENIC		
SNP_13187_A_4155186	NC_021162.1	Ca_Kabuli_Chr03	4155186	GG	CC	CC	INTERGENIC		
SNP_13188_A_4172137	NC_021162.1	Ca_Kabuli_Chr03	4172137	TT	CC	CC	INTERGENIC		
SNP_13189_A_4172681	NC_021162.1	Ca_Kabuli_Chr03	4172681	AA	CC	CC	INTERGENIC		
SNP_13190_A_4232128	NC_021162.1	Ca_Kabuli_Chr03	4232128	AA	TT	TT	INTERGENIC		
SNP_13191_A_4232588	NC_021162.1	Ca_Kabuli_Chr03	4232588	GG	TT	TT	INTERGENIC		
SNP_13192_A_4232899	NC_021162.1	Ca_Kabuli_Chr03	4232899	CC	GG	GG	INTERGENIC		
SNP_13193_A_4257265	NC_021162.1	Ca_Kabuli_Chr03	4257265	AA	TT	TT	INTRON	101515186	cytochrome P450 71A1-like
SNP_13194_A_4264274	NC_021162.1	Ca_Kabuli_Chr03	4264274	AA	CC	CC	INTERGENIC		
SNP_13195_A_4271012	NC_021162.1	Ca_Kabuli_Chr03	4271012	CC	AA	AA	INTERGENIC		
SNP_13196_A_4292337	NC_021162.1	Ca_Kabuli_Chr03	4292337	TT	CC	CC	INTERGENIC		
SNP_13197_A_4307807	NC_021162.1	Ca_Kabuli_Chr03	4307807	CC	GG	GG	INTERGENIC		
SNP_13198_A_4307844	NC_021162.1	Ca_Kabuli_Chr03	4307844	AA	GG	GG	INTERGENIC		
SNP_13199_A_4307880	NC_021162.1	Ca_Kabuli_Chr03	4307880	TT	CC	CC	INTERGENIC		
SNP_13200_A_4307939	NC_021162.1	Ca_Kabuli_Chr03	4307939	TT	CC	CC	INTERGENIC		
SNP_13201_A_4376783	NC_021162.1	Ca_Kabuli_Chr03	4376783	AA	TT	TT	INTERGENIC		
SNP_13202_A_4381971	NC_021162.1	Ca_Kabuli_Chr03	4381971	TT	CC	CC	DRR	101491198	uncharacterized LOC101491198
SNP_13203_A_4381973	NC_021162.1	Ca_Kabuli_Chr03	4381973	AA	GG	GG	DRR	101491198	uncharacterized LOC101491198
SNP_13204_A_4381974	NC_021162.1	Ca_Kabuli_Chr03	4381974	CC	TT	TT	DRR	101491198	uncharacterized LOC101491198
SNP_13205_A_4385009	NC_021162.1	Ca_Kabuli_Chr03	4385009	TT	CC	CC	INTERGENIC		

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SNP_13206_A_4506753	NC_021162.1	Ca_Kabuli_Chr03	4506753	TT	CC	CC	INTERGENIC			
SNP_13207_A_4506755	NC_021162.1	Ca_Kabuli_Chr03	4506755	AA	CC	CC	INTERGENIC			
SNP_13208_A_4506761	NC_021162.1	Ca_Kabuli_Chr03	4506761	AA	GG	GG	INTERGENIC			
SNP_13209_A_4536671	NC_021162.1	Ca_Kabuli_Chr03	4536671	CC	TT	TT	INTERGENIC			
SNP_13210_A_4536776	NC_021162.1	Ca_Kabuli_Chr03	4536776	AA	CC	CC	INTERGENIC			
SNP_13211_A_4566303	NC_021162.1	Ca_Kabuli_Chr03	4566303	CC	GG	GG	INTERGENIC			
SNP_13212_A_4611065	NC_021162.1	Ca_Kabuli_Chr03	4611065	AA	CC	CC	INTERGENIC			
SNP_13213_A_4611069	NC_021162.1	Ca_Kabuli_Chr03	4611069	TT	CC	CC	INTERGENIC			
SNP_13214_A_4611190	NC_021162.1	Ca_Kabuli_Chr03	4611190	TT	GG	GG	INTERGENIC			
SNP_13215_A_4611494	NC_021162.1	Ca_Kabuli_Chr03	4611494	AA	GG	GG	INTERGENIC			
SNP_13216_A_4611571	NC_021162.1	Ca_Kabuli_Chr03	4611571	TT	AA	AA	INTERGENIC			
SNP_13217_A_4611605	NC_021162.1	Ca_Kabuli_Chr03	4611605	CC	TT	TT	INTERGENIC			
SNP_13218_A_4619343	NC_021162.1	Ca_Kabuli_Chr03	4619343	CC	TT	TT	INTERGENIC			
SNP_13219_A_4619492	NC_021162.1	Ca_Kabuli_Chr03	4619492	TT	CC	CC	INTERGENIC			
SNP_13220_A_4619695	NC_021162.1	Ca_Kabuli_Chr03	4619695	TT	CC	CC	INTERGENIC			
SNP_13222_A_4688117	NC_021162.1	Ca_Kabuli_Chr03	4688117	GG	AA	AA	INTERGENIC			
SNP_13223_A_4688256	NC_021162.1	Ca_Kabuli_Chr03	4688256	CC	TT	TT	INTERGENIC			
SNP_13224_A_4688258	NC_021162.1	Ca_Kabuli_Chr03	4688258	AA	GG	GG	INTERGENIC			
SNP_13225_A_4688269	NC_021162.1	Ca_Kabuli_Chr03	4688269	CC	TT	TT	INTERGENIC			
SNP_13226_A_4688327	NC_021162.1	Ca_Kabuli_Chr03	4688327	TT	GG	GG	INTERGENIC			
SNP_13227_A_4688383	NC_021162.1	Ca_Kabuli_Chr03	4688383	TT	CC	CC	INTERGENIC			
SNP_13228_A_4688500	NC_021162.1	Ca_Kabuli_Chr03	4688500	GG	AA	AA	INTERGENIC			

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SNP_13229_A_4688770	NC_021162.1	Ca_Kabuli_Chr03	4688770	TT	AA	AA	INTERGENIC			
SNP_13230_A_4688799	NC_021162.1	Ca_Kabuli_Chr03	4688799	AA	TT	TT	INTERGENIC			
SNP_13231_A_4688866	NC_021162.1	Ca_Kabuli_Chr03	4688866	AA	TT	TT	INTERGENIC			
SNP_13232_A_4688867	NC_021162.1	Ca_Kabuli_Chr03	4688867	TT	AA	AA	INTERGENIC			
SNP_13233_A_4688868	NC_021162.1	Ca_Kabuli_Chr03	4688868	TT	AA	AA	INTERGENIC			
SNP_13234_A_4688885	NC_021162.1	Ca_Kabuli_Chr03	4688885	AA	GG	GG	INTERGENIC			
SNP_13235_A_4688901	NC_021162.1	Ca_Kabuli_Chr03	4688901	AA	CC	CC	INTERGENIC			
SNP_13236_A_4689021	NC_021162.1	Ca_Kabuli_Chr03	4689021	CC	TT	TT	INTERGENIC			
SNP_13237_A_4689029	NC_021162.1	Ca_Kabuli_Chr03	4689029	GG	AA	AA	INTERGENIC			
SNP_13238_A_4689053	NC_021162.1	Ca_Kabuli_Chr03	4689053	GG	CC	CC	INTERGENIC			
SNP_13239_A_4689098	NC_021162.1	Ca_Kabuli_Chr03	4689098	GG	AA	AA	INTERGENIC			
SNP_13241_A_4689310	NC_021162.1	Ca_Kabuli_Chr03	4689310	TT	CC	CC	INTERGENIC			
SNP_13242_A_4720312	NC_021162.1	Ca_Kabuli_Chr03	4720312	GG	AA	AA	INTERGENIC			
SNP_13243_A_4720317	NC_021162.1	Ca_Kabuli_Chr03	4720317	TT	GG	GG	INTERGENIC			
SNP_13244_A_4720319	NC_021162.1	Ca_Kabuli_Chr03	4720319	AA	CC	CC	INTERGENIC			
SNP_13245_A_4720392	NC_021162.1	Ca_Kabuli_Chr03	4720392	TT	CC	CC	INTERGENIC			
SNP_13246_A_4720557	NC_021162.1	Ca_Kabuli_Chr03	4720557	CC	AA	AA	INTERGENIC			
SNP_13247_A_4737432	NC_021162.1	Ca_Kabuli_Chr03	4737432	AA	TT	TT	INTERGENIC			
SNP_13248_A_4783877	NC_021162.1	Ca_Kabuli_Chr03	4783877	CC	TT	TT	INTERGENIC			
SNP_13249_A_4787573	NC_021162.1	Ca_Kabuli_Chr03	4787573	AA	GG	GG	INTERGENIC			
SNP_13250_A_4787576	NC_021162.1	Ca_Kabuli_Chr03	4787576	AA	GG	GG	INTERGENIC			
SNP_13251_A_4787661	NC_021162.1	Ca_Kabuli_Chr03	4787661	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13252_A_4789424	NC_021162.1	Ca_Kabuli_Chr03	4789424	AA	TT	TT	DRR	101501142	Unknown function
SNP_13253_A_4789569	NC_021162.1	Ca_Kabuli_Chr03	4789569	AA	CC	CC	DRR	101501142	Unknown function
SNP_13254_A_4792964	NC_021162.1	Ca_Kabuli_Chr03	4792964	TT	CC	CC	URR	101501142	Unknown function
SNP_13255_A_4845876	NC_021162.1	Ca_Kabuli_Chr03	4845876	GG	AA	AA	INTERGENIC		
SNP_13256_A_4863917	NC_021162.1	Ca_Kabuli_Chr03	4863917	GG	TT	TT	URR	101497584	probable mitochondrial saccharopine dehydrogenase-like oxidoreductase At5g39410
SNP_13257_A_4946277	NC_021162.1	Ca_Kabuli_Chr03	4946277	TT	CC	CC	INTERGENIC		
SNP_13258_A_4952174	NC_021162.1	Ca_Kabuli_Chr03	4952174	AA	CC	CC	INTERGENIC		
SNP_13259_A_4952236	NC_021162.1	Ca_Kabuli_Chr03	4952236	GG	AA	AA	INTERGENIC		
SNP_13260_A_4954598	NC_021162.1	Ca_Kabuli_Chr03	4954598	AA	GG	GG	INTERGENIC		
SNP_13261_A_4954698	NC_021162.1	Ca_Kabuli_Chr03	4954698	CC	TT	TT	INTERGENIC		
SNP_13262_A_4955404	NC_021162.1	Ca_Kabuli_Chr03	4955404	CC	TT	TT	INTERGENIC		
SNP_13263_A_4957784	NC_021162.1	Ca_Kabuli_Chr03	4957784	GG	TT	TT	INTERGENIC		
SNP_13264_A_4958809	NC_021162.1	Ca_Kabuli_Chr03	4958809	GG	AA	AA	INTERGENIC		
SNP_13265_A_4958824	NC_021162.1	Ca_Kabuli_Chr03	4958824	AA	GG	GG	INTERGENIC		
SNP_13266_A_4958853	NC_021162.1	Ca_Kabuli_Chr03	4958853	TT	CC	CC	INTERGENIC		
SNP_13267_A_4962805	NC_021162.1	Ca_Kabuli_Chr03	4962805	CC	AA	AA	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13268_A_4962915	NC_021162.1	Ca_Kabuli_Chr03	4962915	TT	GG	GG	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13269_A_4962971	NC_021162.1	Ca_Kabuli_Chr03	4962971	AA	GG	GG	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13270_A_4962973	NC_021162.1	Ca_Kabuli_Chr03	4962973	AA	GG	GG	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13271_A_4963182	NC_021162.1	Ca_Kabuli_Chr03	4963182	CC	TT	TT	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13272_A_4963276	NC_021162.1	Ca_Kabuli_Chr03	4963276	TT	GG	GG	DRR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13273_A_4964707	NC_021162.1	Ca_Kabuli_Chr03	4964707	TT	CC	CC	URR	101502719	GDSL esterase/lipase At5g45910-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13274_A_4964990	NC_021162.1	Ca_Kabuli_Chr03	4964990	CC	TT	TT	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13275_A_4964991	NC_021162.1	Ca_Kabuli_Chr03	4964991	CC	TT	TT	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13276_A_4965048	NC_021162.1	Ca_Kabuli_Chr03	4965048	GG	AA	AA	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13277_A_4965187	NC_021162.1	Ca_Kabuli_Chr03	4965187	AA	CC	CC	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13278_A_4965188	NC_021162.1	Ca_Kabuli_Chr03	4965188	CC	AA	AA	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13279_A_4965286	NC_021162.1	Ca_Kabuli_Chr03	4965286	AA	TT	TT	URR	101502719	GDSL esterase/lipase At5g45910-like
SNP_13281_A_4965561	NC_021162.1	Ca_Kabuli_Chr03	4965561	AA	TT	TT	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13283_A_4965643	NC_021162.1	Ca_Kabuli_Chr03	4965643	AA	TT	TT	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13284_A_4965646	NC_021162.1	Ca_Kabuli_Chr03	4965646	AA	TT	TT	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13285_A_4965648	NC_021162.1	Ca_Kabuli_Chr03	4965648	AA	CC	CC	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13286_A_4965669	NC_021162.1	Ca_Kabuli_Chr03	4965669	AA	GG	GG	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13287_A_4965678	NC_021162.1	Ca_Kabuli_Chr03	4965678	TT	AA	AA	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13288_A_4965689	NC_021162.1	Ca_Kabuli_Chr03	4965689	TT	CC	CC	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13289_A_4965750	NC_021162.1	Ca_Kabuli_Chr03	4965750	AA	GG	GG	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13290_A_4965771	NC_021162.1	Ca_Kabuli_Chr03	4965771	CC	AA	AA	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13291_A_4965813	NC_021162.1	Ca_Kabuli_Chr03	4965813	TT	AA	AA	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13292_A_4965982	NC_021162.1	Ca_Kabuli_Chr03	4965982	CC	TT	TT	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13294_A_4966188	NC_021162.1	Ca_Kabuli_Chr03	4966188	CC	TT	TT	DRR	101499229	GDSL esterase/lipase At5g45910-like
SNP_13295_A_4966809	NC_021162.1	Ca_Kabuli_Chr03	4966809	AA	CC	CC	INTRON	101499229	GDSL esterase/lipase At5g45910-like
SNP_13296_A_4966928	NC_021162.1	Ca_Kabuli_Chr03	4966928	TT	CC	CC	SYNONYMOUS_CODING	101499229	GDSL esterase/lipase At5g45910-like
SNP_13299_A_4975317	NC_021162.1	Ca_Kabuli_Chr03	4975317	TT	CC	CC	SYNONYMOUS_CODING	101499229	GDSL esterase/lipase At5g45910-like
SNP_13300_A_5141777	NC_021162.1	Ca_Kabuli_Chr03	5141777	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13301_A_5141778	NC_021162.1	Ca_Kabuli_Chr03	5141778	TT	CC	CC	INTERGENIC			
SNP_13303_A_5229745	NC_021162.1	Ca_Kabuli_Chr03	5229745	GG	AA	AA	INTERGENIC			
SNP_13305_A_5270108	NC_021162.1	Ca_Kabuli_Chr03	5270108	AA	GG	GG	INTERGENIC			
SNP_13306_A_5270131	NC_021162.1	Ca_Kabuli_Chr03	5270131	TT	CC	CC	INTERGENIC			
SNP_13307_A_5270241	NC_021162.1	Ca_Kabuli_Chr03	5270241	TT	GG	GG	INTERGENIC			
SNP_13308_A_5270290	NC_021162.1	Ca_Kabuli_Chr03	5270290	AA	GG	GG	INTERGENIC			
SNP_13309_A_5270298	NC_021162.1	Ca_Kabuli_Chr03	5270298	AA	TT	TT	INTERGENIC			
SNP_13310_A_5270306	NC_021162.1	Ca_Kabuli_Chr03	5270306	AA	TT	GG	INTERGENIC			
SNP_13311_A_5270398	NC_021162.1	Ca_Kabuli_Chr03	5270398	TT	AA	AA	INTERGENIC			
SNP_13312_A_5270439	NC_021162.1	Ca_Kabuli_Chr03	5270439	CC	TT	TT	INTERGENIC			
SNP_13314_A_5270648	NC_021162.1	Ca_Kabuli_Chr03	5270648	CC	GG	GG	INTERGENIC			
SNP_13315_A_5273919	NC_021162.1	Ca_Kabuli_Chr03	5273919	CC	TT	TT	INTERGENIC			
SNP_13316_A_5274027	NC_021162.1	Ca_Kabuli_Chr03	5274027	GG	AA	AA	INTERGENIC			
SNP_13317_A_5274147	NC_021162.1	Ca_Kabuli_Chr03	5274147	TT	CC	CC	INTERGENIC			
SNP_13318_A_5274156	NC_021162.1	Ca_Kabuli_Chr03	5274156	AA	GG	GG	INTERGENIC			
SNP_13319_A_5274178	NC_021162.1	Ca_Kabuli_Chr03	5274178	TT	CC	CC	INTERGENIC			
SNP_13320_A_5274192	NC_021162.1	Ca_Kabuli_Chr03	5274192	AA	GG	GG	INTERGENIC			
SNP_13321_A_5274198	NC_021162.1	Ca_Kabuli_Chr03	5274198	AA	GG	GG	INTERGENIC			
SNP_13322_A_5274204	NC_021162.1	Ca_Kabuli_Chr03	5274204	TT	CC	CC	INTERGENIC			
SNP_13323_A_5274210	NC_021162.1	Ca_Kabuli_Chr03	5274210	TT	AA	AA	INTERGENIC			
SNP_13324_A_5274216	NC_021162.1	Ca_Kabuli_Chr03	5274216	AA	CC	CC	INTERGENIC			
SNP_13325_A_5274231	NC_021162.1	Ca_Kabuli_Chr03	5274231	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13326_A_5274249	NC_021162.1	Ca_Kabuli_Chr03	5274249	AA	GG	GG	INTERGENIC			
SNP_13327_A_5274255	NC_021162.1	Ca_Kabuli_Chr03	5274255	CC	AA	AA	INTERGENIC			
SNP_13328_A_5274261	NC_021162.1	Ca_Kabuli_Chr03	5274261	CC	TT	TT	INTERGENIC			
SNP_13329_A_5274291	NC_021162.1	Ca_Kabuli_Chr03	5274291	TT	GG	GG	INTERGENIC			
SNP_13330_A_5274303	NC_021162.1	Ca_Kabuli_Chr03	5274303	TT	AA	AA	INTERGENIC			
SNP_13331_A_5274318	NC_021162.1	Ca_Kabuli_Chr03	5274318	TT	AA	AA	INTERGENIC			
SNP_13332_A_5274330	NC_021162.1	Ca_Kabuli_Chr03	5274330	TT	CC	CC	INTERGENIC			
SNP_13333_A_5274342	NC_021162.1	Ca_Kabuli_Chr03	5274342	GG	AA	AA	INTERGENIC			
SNP_13334_A_5274366	NC_021162.1	Ca_Kabuli_Chr03	5274366	AA	GG	GG	INTERGENIC			
SNP_13335_A_5274396	NC_021162.1	Ca_Kabuli_Chr03	5274396	GG	AA	AA	INTERGENIC			
SNP_13336_A_5274404	NC_021162.1	Ca_Kabuli_Chr03	5274404	AA	CC	CC	INTERGENIC			
SNP_13337_A_5274411	NC_021162.1	Ca_Kabuli_Chr03	5274411	TT	CC	CC	INTERGENIC			
SNP_13338_A_5274428	NC_021162.1	Ca_Kabuli_Chr03	5274428	TT	CC	CC	INTERGENIC			
SNP_13339_A_5276575	NC_021162.1	Ca_Kabuli_Chr03	5276575	GG	AA	AA	INTERGENIC			
SNP_13340_A_5276590	NC_021162.1	Ca_Kabuli_Chr03	5276590	TT	CC	CC	INTERGENIC			
SNP_13341_A_5276645	NC_021162.1	Ca_Kabuli_Chr03	5276645	AA	GG	GG	INTERGENIC			
SNP_13342_A_5276647	NC_021162.1	Ca_Kabuli_Chr03	5276647	TT	CC	CC	INTERGENIC			
SNP_13343_A_5276656	NC_021162.1	Ca_Kabuli_Chr03	5276656	CC	TT	TT	INTERGENIC			
SNP_13344_A_5276665	NC_021162.1	Ca_Kabuli_Chr03	5276665	TT	GG	GG	INTERGENIC			
SNP_13345_A_5276672	NC_021162.1	Ca_Kabuli_Chr03	5276672	TT	CC	CC	INTERGENIC			
SNP_13346_A_5276686	NC_021162.1	Ca_Kabuli_Chr03	5276686	AA	GG	GG	INTERGENIC			
SNP_13347_A_5281632	NC_021162.1	Ca_Kabuli_Chr03	5281632	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13348_A_5281706	NC_021162.1	Ca_Kabuli_Chr03	5281706	TT	AA	AA	INTERGENIC			
SNP_13349_A_5282066	NC_021162.1	Ca_Kabuli_Chr03	5282066	GG	AA	AA	INTERGENIC			
SNP_13350_A_5282132	NC_021162.1	Ca_Kabuli_Chr03	5282132	GG	AA	AA	INTERGENIC			
SNP_13351_A_5282429	NC_021162.1	Ca_Kabuli_Chr03	5282429	AA	GG	GG	INTERGENIC			
SNP_13352_A_5285791	NC_021162.1	Ca_Kabuli_Chr03	5285791	TT	CC	CC	INTERGENIC			
SNP_13353_A_5285793	NC_021162.1	Ca_Kabuli_Chr03	5285793	TT	CC	CC	INTERGENIC			
SNP_13354_A_5285804	NC_021162.1	Ca_Kabuli_Chr03	5285804	GG	CC	CC	INTERGENIC			
SNP_13355_A_5285820	NC_021162.1	Ca_Kabuli_Chr03	5285820	GG	CC	CC	INTERGENIC			
SNP_13356_A_5285854	NC_021162.1	Ca_Kabuli_Chr03	5285854	AA	GG	GG	INTERGENIC			
SNP_13357_A_5285873	NC_021162.1	Ca_Kabuli_Chr03	5285873	TT	AA	AA	INTERGENIC			
SNP_13358_A_5285931	NC_021162.1	Ca_Kabuli_Chr03	5285931	AA	TT	TT	INTERGENIC			
SNP_13359_A_5285933	NC_021162.1	Ca_Kabuli_Chr03	5285933	CC	AA	AA	INTERGENIC			
SNP_13360_A_5286136	NC_021162.1	Ca_Kabuli_Chr03	5286136	AA	GG	GG	INTERGENIC			
SNP_13362_A_5287440	NC_021162.1	Ca_Kabuli_Chr03	5287440	GG	AA	AA	INTERGENIC			
SNP_13363_A_5287450	NC_021162.1	Ca_Kabuli_Chr03	5287450	CC	TT	TT	INTERGENIC			
SNP_13364_A_5287564	NC_021162.1	Ca_Kabuli_Chr03	5287564	GG	AA	AA	INTERGENIC			
SNP_13365_A_5287574	NC_021162.1	Ca_Kabuli_Chr03	5287574	TT	AA	AA	INTERGENIC			
SNP_13366_A_5287688	NC_021162.1	Ca_Kabuli_Chr03	5287688	CC	TT	TT	INTERGENIC			
SNP_13367_A_5287691	NC_021162.1	Ca_Kabuli_Chr03	5287691	AA	GG	GG	INTERGENIC			
SNP_13368_A_5287699	NC_021162.1	Ca_Kabuli_Chr03	5287699	CC	TT	TT	INTERGENIC			
SNP_13369_A_5287769	NC_021162.1	Ca_Kabuli_Chr03	5287769	AA	TT	TT	INTERGENIC			
SNP_13371_A_5288445	NC_021162.1	Ca_Kabuli_Chr03	5288445	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13372_A_5288448	NC_021162.1	Ca_Kabuli_Chr03	5288448	AA	CC	CC	INTERGENIC			
SNP_13373_A_5288453	NC_021162.1	Ca_Kabuli_Chr03	5288453	AA	TT	TT	INTERGENIC			
SNP_13374_A_5288461	NC_021162.1	Ca_Kabuli_Chr03	5288461	CC	GG	GG	INTERGENIC			
SNP_13375_A_5288462	NC_021162.1	Ca_Kabuli_Chr03	5288462	CC	AA	AA	INTERGENIC			
SNP_13376_A_5288474	NC_021162.1	Ca_Kabuli_Chr03	5288474	AA	GG	GG	INTERGENIC			
SNP_13377_A_5292269	NC_021162.1	Ca_Kabuli_Chr03	5292269	AA	GG	GG	INTERGENIC			
SNP_13378_A_5292280	NC_021162.1	Ca_Kabuli_Chr03	5292280	GG	AA	AA	INTERGENIC			
SNP_13379_A_5304963	NC_021162.1	Ca_Kabuli_Chr03	5304963	GG	AA	AA	INTERGENIC			
SNP_13380_A_5340461	NC_021162.1	Ca_Kabuli_Chr03	5340461	AA	GG	GG	INTERGENIC			
SNP_13381_A_5340504	NC_021162.1	Ca_Kabuli_Chr03	5340504	AA	GG	GG	INTERGENIC			
SNP_13382_A_5340847	NC_021162.1	Ca_Kabuli_Chr03	5340847	TT	CC	CC	INTERGENIC			
SNP_13383_A_5340876	NC_021162.1	Ca_Kabuli_Chr03	5340876	AA	GG	GG	INTERGENIC			
SNP_13384_A_5344680	NC_021162.1	Ca_Kabuli_Chr03	5344680	GG	AA	AA	INTERGENIC			
SNP_13386_A_5460078	NC_021162.1	Ca_Kabuli_Chr03	5460078	GG	AA	AA	INTERGENIC			
SNP_13387_A_5494578	NC_021162.1	Ca_Kabuli_Chr03	5494578	AA	CC	CC	INTERGENIC			
SNP_13388_A_5502027	NC_021162.1	Ca_Kabuli_Chr03	5502027	AA	CC	CC	DRR	101510873	uncharacterized LOC101510873	
SNP_13390_A_5507725	NC_021162.1	Ca_Kabuli_Chr03	5507725	GG	AA	AA	INTERGENIC			
SNP_13392_A_5507946	NC_021162.1	Ca_Kabuli_Chr03	5507946	AA	CC	CC	INTERGENIC			
SNP_13393_A_5508035	NC_021162.1	Ca_Kabuli_Chr03	5508035	GG	TT	TT	INTERGENIC			
SNP_13394_A_5509903	NC_021162.1	Ca_Kabuli_Chr03	5509903	GG	AA	AA	INTERGENIC			
SNP_13395_A_5509907	NC_021162.1	Ca_Kabuli_Chr03	5509907	AA	GG	GG	INTERGENIC			
SNP_13396_A_5509909	NC_021162.1	Ca_Kabuli_Chr03	5509909	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13397_A_5509936	NC_021162.1	Ca_Kabuli_Chr03	5509936	AA	GG	GG	INTERGENIC		
SNP_13398_A_5510172	NC_021162.1	Ca_Kabuli_Chr03	5510172	TT	GG	GG	INTERGENIC		
SNP_13399_A_5510189	NC_021162.1	Ca_Kabuli_Chr03	5510189	GG	AA	AA	INTERGENIC		
SNP_13400_A_5510205	NC_021162.1	Ca_Kabuli_Chr03	5510205	GG	TT	TT	INTERGENIC		
SNP_13401_A_5510238	NC_021162.1	Ca_Kabuli_Chr03	5510238	TT	CC	CC	INTERGENIC		
SNP_13404_A_5516814	NC_021162.1	Ca_Kabuli_Chr03	5516814	TT	AA	AA	INTERGENIC		
SNP_13406_A_5622296	NC_021162.1	Ca_Kabuli_Chr03	5622296	AA	CC	CC	DRR	101489374	cysteine proteinase inhibitor 5-like
SNP_13407_A_5637283	NC_021162.1	Ca_Kabuli_Chr03	5637283	CC	TT	TT	SYNONYMOUS_CODING	101511839	non-specific lipid-transfer protein A-like
SNP_13408_A_5637345	NC_021162.1	Ca_Kabuli_Chr03	5637345	AA	GG	GG	NON_SYNONYMOUS_CODING	101511839	non-specific lipid-transfer protein A-like
SNP_13409_A_5637634	NC_021162.1	Ca_Kabuli_Chr03	5637634	CC	GG	GG	URR	101511839	non-specific lipid-transfer protein A-like
SNP_13410_A_5637675	NC_021162.1	Ca_Kabuli_Chr03	5637675	AA	TT	TT	URR	101511839	non-specific lipid-transfer protein A-like
SNP_13411_A_5637769	NC_021162.1	Ca_Kabuli_Chr03	5637769	CC	AA	AA	URR	101511839	non-specific lipid-transfer protein A-like
SNP_13412_A_5647513	NC_021162.1	Ca_Kabuli_Chr03	5647513	GG	AA	AA	NON_SYNONYMOUS_CODING	101512151	non-specific lipid-transfer protein A-like
SNP_13413_A_5687388	NC_021162.1	Ca_Kabuli_Chr03	5687388	CC	TT	TT	INTERGENIC		
SNP_13414_A_5689031	NC_021162.1	Ca_Kabuli_Chr03	5689031	TT	CC	CC	INTERGENIC		
SNP_13415_A_5689050	NC_021162.1	Ca_Kabuli_Chr03	5689050	CC	TT	TT	INTERGENIC		
SNP_13417_A_5689357	NC_021162.1	Ca_Kabuli_Chr03	5689357	TT	CC	CC	INTERGENIC		
SNP_13418_A_5689359	NC_021162.1	Ca_Kabuli_Chr03	5689359	AA	GG	GG	INTERGENIC		
SNP_13419_A_5692240	NC_021162.1	Ca_Kabuli_Chr03	5692240	TT	AA	AA	INTERGENIC		
SNP_13420_A_5692263	NC_021162.1	Ca_Kabuli_Chr03	5692263	TT	CC	CC	INTERGENIC		
SNP_13421_A_5692267	NC_021162.1	Ca_Kabuli_Chr03	5692267	TT	CC	CC	INTERGENIC		
SNP_13422_A_5692283	NC_021162.1	Ca_Kabuli_Chr03	5692283	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13423_A_5692466	NC_021162.1	Ca_Kabuli_Chr03	5692466	TT	CC	CC	INTERGENIC		
SNP_13424_A_5692468	NC_021162.1	Ca_Kabuli_Chr03	5692468	GG	AA	AA	INTERGENIC		
SNP_13425_A_5716270	NC_021162.1	Ca_Kabuli_Chr03	5716270	AA	GG	GG	INTERGENIC		
SNP_13426_A_5716306	NC_021162.1	Ca_Kabuli_Chr03	5716306	AA	TT	TT	INTERGENIC		
SNP_13427_A_5716315	NC_021162.1	Ca_Kabuli_Chr03	5716315	AA	CC	CC	INTERGENIC		
SNP_13428_A_5717960	NC_021162.1	Ca_Kabuli_Chr03	5717960	TT	CC	CC	INTERGENIC		
SNP_13429_A_5717996	NC_021162.1	Ca_Kabuli_Chr03	5717996	TT	AA	AA	INTERGENIC		
SNP_13430_A_5718300	NC_021162.1	Ca_Kabuli_Chr03	5718300	AA	CC	CC	INTERGENIC		
SNP_13431_A_5730063	NC_021162.1	Ca_Kabuli_Chr03	5730063	CC	TT	TT	INTRON	101513562	truncated transcription factor CAULIFLOWER A-like
SNP_13432_A_5805133	NC_021162.1	Ca_Kabuli_Chr03	5805133	AA	TT	TT	INTERGENIC		
SNP_13433_A_5805214	NC_021162.1	Ca_Kabuli_Chr03	5805214	CC	TT	TT	INTERGENIC		
SNP_13434_A_5838813	NC_021162.1	Ca_Kabuli_Chr03	5838813	AA	CC	CC	INTRON	101490680	Unknown function
SNP_13435_A_5840829	NC_021162.1	Ca_Kabuli_Chr03	5840829	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13436_A_5840841	NC_021162.1	Ca_Kabuli_Chr03	5840841	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13437_A_5840858	NC_021162.1	Ca_Kabuli_Chr03	5840858	TT	GG	GG	INTRON	101490680	Unknown function
SNP_13438_A_5840860	NC_021162.1	Ca_Kabuli_Chr03	5840860	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13439_A_5840888	NC_021162.1	Ca_Kabuli_Chr03	5840888	GG	TT	TT	INTRON	101490680	Unknown function
SNP_13440_A_5840904	NC_021162.1	Ca_Kabuli_Chr03	5840904	CC	TT	TT	INTRON	101490680	Unknown function
SNP_13441_A_5840927	NC_021162.1	Ca_Kabuli_Chr03	5840927	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13442_A_5841031	NC_021162.1	Ca_Kabuli_Chr03	5841031	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13443_A_5841413	NC_021162.1	Ca_Kabuli_Chr03	5841413	AA	GG	GG	INTRON	101490680	Unknown function
SNP_13444_A_5900893	NC_021162.1	Ca_Kabuli_Chr03	5900893	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13445_A_5900897	NC_021162.1	Ca_Kabuli_Chr03	5900897	CC	TT	TT	INTERGENIC			
SNP_13446_A_5900902	NC_021162.1	Ca_Kabuli_Chr03	5900902	GG	AA	AA	INTERGENIC			
SNP_13447_A_5910255	NC_021162.1	Ca_Kabuli_Chr03	5910255	AA	GG	GG	INTERGENIC			
SNP_13449_A_5922757	NC_021162.1	Ca_Kabuli_Chr03	5922757	AA	GG	GG	INTERGENIC			
SNP_13450_A_5923068	NC_021162.1	Ca_Kabuli_Chr03	5923068	AA	GG	GG	INTERGENIC			
SNP_13451_A_5936213	NC_021162.1	Ca_Kabuli_Chr03	5936213	TT	CC	CC	INTERGENIC			
SNP_13452_A_5936579	NC_021162.1	Ca_Kabuli_Chr03	5936579	CC	TT	TT	INTERGENIC			
SNP_13453_A_5936608	NC_021162.1	Ca_Kabuli_Chr03	5936608	TT	AA	AA	INTERGENIC			
SNP_13454_A_5936665	NC_021162.1	Ca_Kabuli_Chr03	5936665	CC	TT	TT	INTERGENIC			
SNP_13455_A_5936666	NC_021162.1	Ca_Kabuli_Chr03	5936666	AA	GG	GG	INTERGENIC			
SNP_13456_A_5936668	NC_021162.1	Ca_Kabuli_Chr03	5936668	GG	AA	AA	INTERGENIC			
SNP_13457_A_5943814	NC_021162.1	Ca_Kabuli_Chr03	5943814	GG	CC	CC	INTERGENIC			
SNP_13458_A_5959132	NC_021162.1	Ca_Kabuli_Chr03	5959132	TT	CC	CC	INTERGENIC			
SNP_13459_A_5959211	NC_021162.1	Ca_Kabuli_Chr03	5959211	TT	CC	CC	INTERGENIC			
SNP_13460_A_5959222	NC_021162.1	Ca_Kabuli_Chr03	5959222	AA	TT	TT	INTERGENIC			
SNP_13461_A_5967019	NC_021162.1	Ca_Kabuli_Chr03	5967019	GG	CC	CC	INTERGENIC			
SNP_13462_A_5970699	NC_021162.1	Ca_Kabuli_Chr03	5970699	AA	TT	TT	INTERGENIC			
SNP_13463_A_5993515	NC_021162.1	Ca_Kabuli_Chr03	5993515	TT	CC	CC	INTERGENIC			
SNP_13464_A_5994269	NC_021162.1	Ca_Kabuli_Chr03	5994269	AA	CC	CC	INTERGENIC			
SNP_13465_A_5994298	NC_021162.1	Ca_Kabuli_Chr03	5994298	TT	AA	GG	INTERGENIC			
SNP_13466_A_6004267	NC_021162.1	Ca_Kabuli_Chr03	6004267	AA	TT	TT	INTERGENIC			
SNP_13467_A_6004312	NC_021162.1	Ca_Kabuli_Chr03	6004312	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13468_A_6004732	NC_021162.1	Ca_Kabuli_Chr03	6004732	AA	GG	GG	INTERGENIC			
SNP_13469_A_6004797	NC_021162.1	Ca_Kabuli_Chr03	6004797	AA	GG	GG	INTERGENIC			
SNP_13470_A_6030829	NC_021162.1	Ca_Kabuli_Chr03	6030829	TT	CC	CC	INTERGENIC			
SNP_13471_A_6030871	NC_021162.1	Ca_Kabuli_Chr03	6030871	TT	GG	GG	INTERGENIC			
SNP_13472_A_6031035	NC_021162.1	Ca_Kabuli_Chr03	6031035	GG	AA	AA	INTERGENIC			
SNP_13473_A_6031082	NC_021162.1	Ca_Kabuli_Chr03	6031082	TT	CC	CC	INTERGENIC			
SNP_13474_A_6031215	NC_021162.1	Ca_Kabuli_Chr03	6031215	TT	CC	CC	INTERGENIC			
SNP_13475_A_6031225	NC_021162.1	Ca_Kabuli_Chr03	6031225	AA	CC	CC	INTERGENIC			
SNP_13476_A_6031238	NC_021162.1	Ca_Kabuli_Chr03	6031238	GG	AA	AA	INTERGENIC			
SNP_13477_A_6031433	NC_021162.1	Ca_Kabuli_Chr03	6031433	GG	AA	AA	INTERGENIC			
SNP_13478_A_6031451	NC_021162.1	Ca_Kabuli_Chr03	6031451	TT	CC	CC	INTERGENIC			
SNP_13479_A_6031463	NC_021162.1	Ca_Kabuli_Chr03	6031463	GG	AA	AA	INTERGENIC			
SNP_13480_A_6031466	NC_021162.1	Ca_Kabuli_Chr03	6031466	CC	TT	TT	INTERGENIC			
SNP_13481_A_6031496	NC_021162.1	Ca_Kabuli_Chr03	6031496	AA	TT	TT	INTERGENIC			
SNP_13482_A_6037644	NC_021162.1	Ca_Kabuli_Chr03	6037644	TT	CC	CC	INTERGENIC			
SNP_13483_A_6037759	NC_021162.1	Ca_Kabuli_Chr03	6037759	TT	CC	CC	INTERGENIC			
SNP_13484_A_6037762	NC_021162.1	Ca_Kabuli_Chr03	6037762	CC	TT	TT	INTERGENIC			
SNP_13485_A_6037800	NC_021162.1	Ca_Kabuli_Chr03	6037800	CC	AA	AA	INTERGENIC			
SNP_13486_A_6056636	NC_021162.1	Ca_Kabuli_Chr03	6056636	GG	TT	TT	INTERGENIC			
SNP_13487_A_6104435	NC_021162.1	Ca_Kabuli_Chr03	6104435	CC	GG	GG	INTERGENIC			
SNP_13488_A_6104594	NC_021162.1	Ca_Kabuli_Chr03	6104594	TT	GG	GG	INTERGENIC			
SNP_13489_A_6104777	NC_021162.1	Ca_Kabuli_Chr03	6104777	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13490_A_6117690	NC_021162.1	Ca_Kabuli_Chr03	6117690	TT	GG	GG	INTERGENIC			
SNP_13491_A_6157667	NC_021162.1	Ca_Kabuli_Chr03	6157667	TT	GG	GG	INTERGENIC			
SNP_13492_A_6234452	NC_021162.1	Ca_Kabuli_Chr03	6234452	TT	CC	CC	INTERGENIC			
SNP_13493_A_6234453	NC_021162.1	Ca_Kabuli_Chr03	6234453	TT	CC	CC	INTERGENIC			
SNP_13494_A_6243880	NC_021162.1	Ca_Kabuli_Chr03	6243880	AA	GG	GG	INTERGENIC			
SNP_13495_A_6243889	NC_021162.1	Ca_Kabuli_Chr03	6243889	CC	TT	TT	INTERGENIC			
SNP_13498_A_6297129	NC_021162.1	Ca_Kabuli_Chr03	6297129	GG	AA	AA	INTERGENIC			
SNP_13500_A_6328620	NC_021162.1	Ca_Kabuli_Chr03	6328620	GG	TT	TT	INTERGENIC			
SNP_13501_A_6328696	NC_021162.1	Ca_Kabuli_Chr03	6328696	CC	TT	TT	INTERGENIC			
SNP_13502_A_6331120	NC_021162.1	Ca_Kabuli_Chr03	6331120	AA	GG	GG	INTERGENIC			
SNP_13503_A_6333759	NC_021162.1	Ca_Kabuli_Chr03	6333759	AA	TT	TT	INTERGENIC			
SNP_13504_A_6333827	NC_021162.1	Ca_Kabuli_Chr03	6333827	AA	GG	GG	INTERGENIC			
SNP_13505_A_6362632	NC_021162.1	Ca_Kabuli_Chr03	6362632	GG	AA	AA	INTERGENIC			
SNP_13506_A_6371793	NC_021162.1	Ca_Kabuli_Chr03	6371793	CC	TT	TT	INTERGENIC			
SNP_13507_A_6371941	NC_021162.1	Ca_Kabuli_Chr03	6371941	CC	TT	TT	INTERGENIC			
SNP_13508_A_6371988	NC_021162.1	Ca_Kabuli_Chr03	6371988	GG	AA	AA	INTERGENIC			
SNP_13509_A_6372002	NC_021162.1	Ca_Kabuli_Chr03	6372002	TT	AA	AA	INTERGENIC			
SNP_13510_A_6372004	NC_021162.1	Ca_Kabuli_Chr03	6372004	AA	GG	GG	INTERGENIC			
SNP_13512_A_6372228	NC_021162.1	Ca_Kabuli_Chr03	6372228	AA	TT	TT	INTERGENIC			
SNP_13513_A_6372262	NC_021162.1	Ca_Kabuli_Chr03	6372262	AA	CC	CC	INTERGENIC			
SNP_13514_A_6372264	NC_021162.1	Ca_Kabuli_Chr03	6372264	AA	TT	TT	INTERGENIC			
SNP_13517_A_6373630	NC_021162.1	Ca_Kabuli_Chr03	6373630	AA	GG	GG	INTERGENIC			

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SNP_13518_A_6386864	NC_021162.1	Ca_Kabuli_Chr03	6386864	TT	CC	CC	INTERGENIC			
SNP_13519_A_6386896	NC_021162.1	Ca_Kabuli_Chr03	6386896	CC	TT	TT	INTERGENIC			
SNP_13520_A_6386928	NC_021162.1	Ca_Kabuli_Chr03	6386928	TT	CC	CC	INTERGENIC			
SNP_13522_A_6386943	NC_021162.1	Ca_Kabuli_Chr03	6386943	GG	AA	AA	INTERGENIC			
SNP_13523_A_6426786	NC_021162.1	Ca_Kabuli_Chr03	6426786	CC	TT	TT	INTERGENIC			
SNP_13524_A_6428253	NC_021162.1	Ca_Kabuli_Chr03	6428253	TT	AA	AA	INTERGENIC			
SNP_13525_A_6430648	NC_021162.1	Ca_Kabuli_Chr03	6430648	TT	CC	CC	INTERGENIC			
SNP_13526_A_6430649	NC_021162.1	Ca_Kabuli_Chr03	6430649	AA	GG	GG	INTERGENIC			
SNP_13527_A_6448669	NC_021162.1	Ca_Kabuli_Chr03	6448669	TT	CC	CC	INTERGENIC			
SNP_13528_A_6474373	NC_021162.1	Ca_Kabuli_Chr03	6474373	AA	TT	TT	INTERGENIC			
SNP_13529_A_6474374	NC_021162.1	Ca_Kabuli_Chr03	6474374	AA	TT	TT	INTERGENIC			
SNP_13530_A_6519841	NC_021162.1	Ca_Kabuli_Chr03	6519841	AA	GG	GG	INTERGENIC			
SNP_13531_A_6520284	NC_021162.1	Ca_Kabuli_Chr03	6520284	AA	GG	GG	INTERGENIC			
SNP_13532_A_6520291	NC_021162.1	Ca_Kabuli_Chr03	6520291	CC	TT	TT	INTERGENIC			
SNP_13533_A_6527298	NC_021162.1	Ca_Kabuli_Chr03	6527298	TT	GG	GG	INTERGENIC			
SNP_13534_A_6527301	NC_021162.1	Ca_Kabuli_Chr03	6527301	GG	AA	AA	INTERGENIC			
SNP_13535_A_6527322	NC_021162.1	Ca_Kabuli_Chr03	6527322	TT	CC	CC	INTERGENIC			
SNP_13536_A_6566874	NC_021162.1	Ca_Kabuli_Chr03	6566874	CC	TT	TT	INTERGENIC			
SNP_13537_A_6569728	NC_021162.1	Ca_Kabuli_Chr03	6569728	CC	TT	TT	INTERGENIC			
SNP_13538_A_6581942	NC_021162.1	Ca_Kabuli_Chr03	6581942	GG	AA	AA	INTERGENIC			
SNP_13539_A_6582270	NC_021162.1	Ca_Kabuli_Chr03	6582270	TT	CC	CC	INTERGENIC			
SNP_13540_A_6583701	NC_021162.1	Ca_Kabuli_Chr03	6583701	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13542_A_6587860	NC_021162.1	Ca_Kabuli_Chr03	6587860	AA	GG	GG	INTERGENIC			
SNP_13543_A_6588348	NC_021162.1	Ca_Kabuli_Chr03	6588348	TT	AA	AA	INTERGENIC			
SNP_13544_A_6588638	NC_021162.1	Ca_Kabuli_Chr03	6588638	CC	TT	TT	INTERGENIC			
SNP_13545_A_6588778	NC_021162.1	Ca_Kabuli_Chr03	6588778	TT	GG	GG	INTERGENIC			
SNP_13546_A_6588920	NC_021162.1	Ca_Kabuli_Chr03	6588920	GG	AA	AA	INTERGENIC			
SNP_13547_A_6589283	NC_021162.1	Ca_Kabuli_Chr03	6589283	CC	AA	AA	INTERGENIC			
SNP_13548_A_6590181	NC_021162.1	Ca_Kabuli_Chr03	6590181	CC	TT	TT	INTERGENIC			
SNP_13549_A_6590380	NC_021162.1	Ca_Kabuli_Chr03	6590380	GG	AA	AA	INTERGENIC			
SNP_13550_A_6590452	NC_021162.1	Ca_Kabuli_Chr03	6590452	CC	AA	AA	INTERGENIC			
SNP_13551_A_6591729	NC_021162.1	Ca_Kabuli_Chr03	6591729	TT	GG	GG	INTERGENIC			
SNP_13552_A_6592074	NC_021162.1	Ca_Kabuli_Chr03	6592074	CC	TT	TT	INTERGENIC			
SNP_13553_A_6599039	NC_021162.1	Ca_Kabuli_Chr03	6599039	TT	CC	CC	INTERGENIC			
SNP_13554_A_6599058	NC_021162.1	Ca_Kabuli_Chr03	6599058	AA	CC	CC	INTERGENIC			
SNP_13555_A_6599070	NC_021162.1	Ca_Kabuli_Chr03	6599070	TT	CC	CC	INTERGENIC			
SNP_13556_A_6599081	NC_021162.1	Ca_Kabuli_Chr03	6599081	CC	TT	TT	INTERGENIC			
SNP_13557_A_6599095	NC_021162.1	Ca_Kabuli_Chr03	6599095	GG	CC	CC	INTERGENIC			
SNP_13558_A_6599098	NC_021162.1	Ca_Kabuli_Chr03	6599098	TT	AA	AA	INTERGENIC			
SNP_13559_A_6599124	NC_021162.1	Ca_Kabuli_Chr03	6599124	TT	AA	AA	INTERGENIC			
SNP_13560_A_6599143	NC_021162.1	Ca_Kabuli_Chr03	6599143	TT	CC	CC	INTERGENIC			
SNP_13561_A_6599149	NC_021162.1	Ca_Kabuli_Chr03	6599149	TT	CC	CC	INTERGENIC			
SNP_13562_A_6599174	NC_021162.1	Ca_Kabuli_Chr03	6599174	AA	TT	TT	INTERGENIC			
SNP_13563_A_6599175	NC_021162.1	Ca_Kabuli_Chr03	6599175	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13564_A_6599208	NC_021162.1	Ca_Kabuli_Chr03	6599208	AA	GG	GG	INTERGENIC		
SNP_13565_A_6599217	NC_021162.1	Ca_Kabuli_Chr03	6599217	TT	AA	AA	INTERGENIC		
SNP_13566_A_6599258	NC_021162.1	Ca_Kabuli_Chr03	6599258	CC	AA	AA	INTERGENIC		
SNP_13567_A_6599482	NC_021162.1	Ca_Kabuli_Chr03	6599482	GG	AA	AA	INTERGENIC		
SNP_13568_A_6599878	NC_021162.1	Ca_Kabuli_Chr03	6599878	CC	GG	GG	INTERGENIC		
SNP_13569_A_6600101	NC_021162.1	Ca_Kabuli_Chr03	6600101	AA	GG	GG	INTERGENIC		
SNP_13570_A_6600484	NC_021162.1	Ca_Kabuli_Chr03	6600484	AA	GG	GG	INTERGENIC		
SNP_13571_A_6600839	NC_021162.1	Ca_Kabuli_Chr03	6600839	CC	AA	AA	INTERGENIC		
SNP_13572_A_6601618	NC_021162.1	Ca_Kabuli_Chr03	6601618	CC	TT	TT	INTERGENIC		
SNP_13573_A_6608861	NC_021162.1	Ca_Kabuli_Chr03	6608861	TT	AA	AA	INTERGENIC		
SNP_13574_A_6626764	NC_021162.1	Ca_Kabuli_Chr03	6626764	AA	CC	CC	DRR	101496170	pyruvate kinase, cytosolic isozyme-like
SNP_13575_A_6628150	NC_021162.1	Ca_Kabuli_Chr03	6628150	AA	TT	TT	INTRON	101496170	pyruvate kinase, cytosolic isozyme-like
SNP_13576_A_6647487	NC_021162.1	Ca_Kabuli_Chr03	6647487	TT	CC	CC	INTERGENIC		
SNP_13577_A_6649696	NC_021162.1	Ca_Kabuli_Chr03	6649696	GG	AA	AA	INTERGENIC		
SNP_13579_A_6668661	NC_021162.1	Ca_Kabuli_Chr03	6668661	AA	GG	GG	INTERGENIC		
SNP_13581_A_6675431	NC_021162.1	Ca_Kabuli_Chr03	6675431	AA	GG	GG	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13582_A_6675470	NC_021162.1	Ca_Kabuli_Chr03	6675470	GG	TT	TT	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13583_A_6675544	NC_021162.1	Ca_Kabuli_Chr03	6675544	TT	CC	CC	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13584_A_6675562	NC_021162.1	Ca_Kabuli_Chr03	6675562	AA	GG	GG	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13585_A_6675633	NC_021162.1	Ca_Kabuli_Chr03	6675633	TT	GG	GG	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13587_A_6675959	NC_021162.1	Ca_Kabuli_Chr03	6675959	GG	TT	TT	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13588_A_6675964	NC_021162.1	Ca_Kabuli_Chr03	6675964	GG	AA	AA	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13590_A_6675977	NC_021162.1	Ca_Kabuli_Chr03	6675977	CC	TT	TT	INTRON	101496723	pre-mRNA-processing ATP-dependent RNA helicase prp5
SNP_13591_A_6698037	NC_021162.1	Ca_Kabuli_Chr03	6698037	AA	GG	GG	INTERGENIC		
SNP_13592_A_6724711	NC_021162.1	Ca_Kabuli_Chr03	6724711	TT	CC	CC	INTERGENIC		
SNP_13593_A_6724712	NC_021162.1	Ca_Kabuli_Chr03	6724712	TT	CC	CC	INTERGENIC		
SNP_13594_A_6734840	NC_021162.1	Ca_Kabuli_Chr03	6734840	GG	AA	AA	INTERGENIC		
SNP_13595_A_6734844	NC_021162.1	Ca_Kabuli_Chr03	6734844	CC	TT	TT	INTERGENIC		
SNP_13596_A_6735548	NC_021162.1	Ca_Kabuli_Chr03	6735548	CC	AA	AA	INTERGENIC		
SNP_13597_A_6739882	NC_021162.1	Ca_Kabuli_Chr03	6739882	AA	GG	GG	INTERGENIC		
SNP_13598_A_6740213	NC_021162.1	Ca_Kabuli_Chr03	6740213	AA	GG	GG	INTERGENIC		
SNP_13599_A_6749184	NC_021162.1	Ca_Kabuli_Chr03	6749184	CC	AA	AA	INTRON	101497363	glycerol-3-phosphate dehydrogenase SDP6, mitochondrial-like
SNP_13600_A_6772524	NC_021162.1	Ca_Kabuli_Chr03	6772524	TT	CC	CC	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13601_A_6772552	NC_021162.1	Ca_Kabuli_Chr03	6772552	CC	TT	TT	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13602_A_6772738	NC_021162.1	Ca_Kabuli_Chr03	6772738	AA	GG	GG	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13603_A_6772746	NC_021162.1	Ca_Kabuli_Chr03	6772746	AA	GG	GG	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13604_A_6772870	NC_021162.1	Ca_Kabuli_Chr03	6772870	TT	CC	CC	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13606_A_6773044	NC_021162.1	Ca_Kabuli_Chr03	6773044	CC	AA	AA	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13607_A_6773169	NC_021162.1	Ca_Kabuli_Chr03	6773169	GG	AA	AA	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13608_A_6773171	NC_021162.1	Ca_Kabuli_Chr03	6773171	AA	GG	GG	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13609_A_6773439	NC_021162.1	Ca_Kabuli_Chr03	6773439	TT	CC	CC	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13610_A_6773443	NC_021162.1	Ca_Kabuli_Chr03	6773443	TT	CC	CC	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13611_A_6773447	NC_021162.1	Ca_Kabuli_Chr03	6773447	GG	AA	AA	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13612_A_6773481	NC_021162.1	Ca_Kabuli_Chr03	6773481	TT	CC	CC	URR	101511194	pentatricopeptide repeat-containing protein At3g29230-like

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SNP_13613_A_6774057	NC_021162.1	Ca_Kabuli_Chr03	6774057	CC	TT	TT	INTERGENIC		
SNP_13615_A_6774146	NC_021162.1	Ca_Kabuli_Chr03	6774146	GG	AA	AA	INTERGENIC		
SNP_13616_A_6774235	NC_021162.1	Ca_Kabuli_Chr03	6774235	CC	AA	AA	INTERGENIC		
SNP_13617_A_6777878	NC_021162.1	Ca_Kabuli_Chr03	6777878	CC	TT	TT	URR	101498692	uncharacterized LOC101498692
SNP_13618_A_6780284	NC_021162.1	Ca_Kabuli_Chr03	6780284	AA	GG	GG	INTERGENIC		
SNP_13619_A_6780560	NC_021162.1	Ca_Kabuli_Chr03	6780560	GG	AA	AA	INTERGENIC		
SNP_13620_A_6780692	NC_021162.1	Ca_Kabuli_Chr03	6780692	TT	AA	AA	INTERGENIC		
SNP_13621_A_6780770	NC_021162.1	Ca_Kabuli_Chr03	6780770	TT	CC	CC	INTERGENIC		
SNP_13622_A_6780894	NC_021162.1	Ca_Kabuli_Chr03	6780894	GG	AA	AA	INTERGENIC		
SNP_13623_A_6781030	NC_021162.1	Ca_Kabuli_Chr03	6781030	TT	AA	AA	INTERGENIC		
SNP_13624_A_6781062	NC_021162.1	Ca_Kabuli_Chr03	6781062	TT	GG	GG	INTERGENIC		
SNP_13625_A_6781245	NC_021162.1	Ca_Kabuli_Chr03	6781245	AA	CC	CC	INTERGENIC		
SNP_13627_A_6790084	NC_021162.1	Ca_Kabuli_Chr03	6790084	GG	AA	AA	DRR	101512152	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13628_A_6790188	NC_021162.1	Ca_Kabuli_Chr03	6790188	CC	TT	TT	DRR	101512152	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13629_A_6790218	NC_021162.1	Ca_Kabuli_Chr03	6790218	TT	AA	AA	DRR	101512152	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13630_A_6790293	NC_021162.1	Ca_Kabuli_Chr03	6790293	GG	AA	AA	DRR	101512152	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13631_A_6790446	NC_021162.1	Ca_Kabuli_Chr03	6790446	CC	TT	TT	DRR	101512152	pentatricopeptide repeat-containing protein At3g29230-like
SNP_13632_A_6811715	NC_021162.1	Ca_Kabuli_Chr03	6811715	CC	GG	GG	DRR	101499337	60S ribosomal protein L15-1
SNP_13633_A_6821740	NC_021162.1	Ca_Kabuli_Chr03	6821740	TT	AA	AA	INTERGENIC		
SNP_13634_A_6821764	NC_021162.1	Ca_Kabuli_Chr03	6821764	GG	CC	CC	INTERGENIC		
SNP_13635_A_6821934	NC_021162.1	Ca_Kabuli_Chr03	6821934	TT	CC	CC	INTERGENIC		
SNP_13637_A_6822158	NC_021162.1	Ca_Kabuli_Chr03	6822158	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13638_A_6822180	NC_021162.1	Ca_Kabuli_Chr03	6822180	AA	CC	CC	INTERGENIC		
SNP_13639_A_6822181	NC_021162.1	Ca_Kabuli_Chr03	6822181	TT	CC	CC	INTERGENIC		
SNP_13640_A_6823640	NC_021162.1	Ca_Kabuli_Chr03	6823640	TT	CC	CC	DRR	101499848	uncharacterized LOC101499848
SNP_13641_A_6826099	NC_021162.1	Ca_Kabuli_Chr03	6826099	TT	CC	CC	INTRON	id44115	Unknown function
SNP_13642_A_6826221	NC_021162.1	Ca_Kabuli_Chr03	6826221	TT	CC	CC	INTRON	id44115	Unknown function
SNP_13643_A_6826292	NC_021162.1	Ca_Kabuli_Chr03	6826292	GG	AA	AA	INTRON	id44115	Unknown function
SNP_13644_A_6826297	NC_021162.1	Ca_Kabuli_Chr03	6826297	TT	CC	CC	INTRON	id44115	Unknown function
SNP_13645_A_6838416	NC_021162.1	Ca_Kabuli_Chr03	6838416	AA	TT	TT	INTERGENIC		
SNP_13646_A_6838581	NC_021162.1	Ca_Kabuli_Chr03	6838581	CC	AA	AA	INTERGENIC		
SNP_13648_A_6838838	NC_021162.1	Ca_Kabuli_Chr03	6838838	GG	AA	AA	INTERGENIC		
SNP_13649_A_6859424	NC_021162.1	Ca_Kabuli_Chr03	6859424	CC	TT	TT	INTERGENIC		
SNP_13650_A_6859432	NC_021162.1	Ca_Kabuli_Chr03	6859432	CC	AA	AA	INTERGENIC		
SNP_13651_A_6859470	NC_021162.1	Ca_Kabuli_Chr03	6859470	CC	AA	AA	INTERGENIC		
SNP_13652_A_6859498	NC_021162.1	Ca_Kabuli_Chr03	6859498	TT	CC	CC	INTERGENIC		
SNP_13653_A_6859561	NC_021162.1	Ca_Kabuli_Chr03	6859561	GG	AA	AA	INTERGENIC		
SNP_13654_A_6859668	NC_021162.1	Ca_Kabuli_Chr03	6859668	GG	AA	AA	INTERGENIC		
SNP_13655_A_6859702	NC_021162.1	Ca_Kabuli_Chr03	6859702	CC	TT	TT	INTERGENIC		
SNP_13656_A_6859716	NC_021162.1	Ca_Kabuli_Chr03	6859716	GG	AA	AA	INTERGENIC		
SNP_13657_A_6859862	NC_021162.1	Ca_Kabuli_Chr03	6859862	AA	TT	TT	INTERGENIC		
SNP_13658_A_6859889	NC_021162.1	Ca_Kabuli_Chr03	6859889	GG	AA	AA	INTERGENIC		
SNP_13659_A_6859890	NC_021162.1	Ca_Kabuli_Chr03	6859890	TT	CC	CC	INTERGENIC		
SNP_13660_A_6867917	NC_021162.1	Ca_Kabuli_Chr03	6867917	TT	AA	AA	INTERGENIC		

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SNP_13661_A_6873949	NC_021162.1	Ca_Kabuli_Chr03	6873949	TT	CC	CC	INTERGENIC		
SNP_13662_A_6873999	NC_021162.1	Ca_Kabuli_Chr03	6873999	TT	CC	CC	INTERGENIC		
SNP_13663_A_6906571	NC_021162.1	Ca_Kabuli_Chr03	6906571	TT	CC	CC	URR	101501026	pentatricopeptide repeat-containing protein At4g01570
SNP_13664_A_6947337	NC_021162.1	Ca_Kabuli_Chr03	6947337	AA	GG	GG	INTERGENIC		
SNP_13665_A_6951719	NC_021162.1	Ca_Kabuli_Chr03	6951719	GG	AA	AA	INTERGENIC		
SNP_13666_A_7045344	NC_021162.1	Ca_Kabuli_Chr03	7045344	CC	TT	TT	DRR	101502518	uncharacterized LOC101502518
SNP_13667_A_7065569	NC_021162.1	Ca_Kabuli_Chr03	7065569	AA	CC	CC	INTERGENIC		
SNP_13668_A_7065580	NC_021162.1	Ca_Kabuli_Chr03	7065580	AA	GG	GG	INTERGENIC		
SNP_13669_A_7065625	NC_021162.1	Ca_Kabuli_Chr03	7065625	CC	TT	TT	INTERGENIC		
SNP_13670_A_7066548	NC_021162.1	Ca_Kabuli_Chr03	7066548	AA	GG	GG	INTERGENIC		
SNP_13672_A_7093134	NC_021162.1	Ca_Kabuli_Chr03	7093134	GG	AA	AA	INTRON	101513760	Unknown function
SNP_13673_A_7103295	NC_021162.1	Ca_Kabuli_Chr03	7103295	CC	GG	GG	INTERGENIC		
SNP_13674_A_7119654	NC_021162.1	Ca_Kabuli_Chr03	7119654	CC	AA	AA	URR	101503267	uncharacterized protein At1g04910
SNP_13675_A_7120457	NC_021162.1	Ca_Kabuli_Chr03	7120457	GG	CC	CC	INTERGENIC		
SNP_13676_A_7120476	NC_021162.1	Ca_Kabuli_Chr03	7120476	CC	GG	GG	INTERGENIC		
SNP_13677_A_7162939	NC_021162.1	Ca_Kabuli_Chr03	7162939	TT	GG	GG	INTERGENIC		
SNP_13678_A_7166759	NC_021162.1	Ca_Kabuli_Chr03	7166759	TT	AA	AA	INTERGENIC		
SNP_13679_A_7241756	NC_021162.1	Ca_Kabuli_Chr03	7241756	TT	AA	AA	DRR	101503810	phosphatidylinositol 4-kinase gamma 7-like
SNP_13680_A_7255457	NC_021162.1	Ca_Kabuli_Chr03	7255457	GG	AA	AA	INTERGENIC		
SNP_13682_A_7405549	NC_021162.1	Ca_Kabuli_Chr03	7405549	AA	GG	GG	DRR	101505957	DNA-directed RNA polymerase 2, chloroplast/mitochondrial
SNP_13683_A_7425620	NC_021162.1	Ca_Kabuli_Chr03	7425620	CC	AA	AA	INTERGENIC		
SNP_13685_A_7470707	NC_021162.1	Ca_Kabuli_Chr03	7470707	CC	GG	GG	INTERGENIC		

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SNP_13686_A_7470742	NC_021162.1	Ca_Kabuli_Chr03	7470742	GG	AA	AA	INTERGENIC			
SNP_13687_A_7570957	NC_021162.1	Ca_Kabuli_Chr03	7570957	TT	AA	AA	INTERGENIC			
SNP_13688_A_7570958	NC_021162.1	Ca_Kabuli_Chr03	7570958	TT	GG	GG	INTERGENIC			
SNP_13689_A_7575906	NC_021162.1	Ca_Kabuli_Chr03	7575906	AA	TT	TT	INTERGENIC			
SNP_13691_A_7627283	NC_021162.1	Ca_Kabuli_Chr03	7627283	GG	CC	CC	INTERGENIC			
SNP_13692_A_7681861	NC_021162.1	Ca_Kabuli_Chr03	7681861	AA	GG	GG	INTERGENIC			
SNP_13693_A_7681873	NC_021162.1	Ca_Kabuli_Chr03	7681873	TT	CC	CC	INTERGENIC			
SNP_13694_A_7681877	NC_021162.1	Ca_Kabuli_Chr03	7681877	AA	TT	TT	INTERGENIC			
SNP_13696_A_7681919	NC_021162.1	Ca_Kabuli_Chr03	7681919	TT	CC	CC	INTERGENIC			
SNP_13697_A_7730530	NC_021162.1	Ca_Kabuli_Chr03	7730530	GG	AA	AA	INTERGENIC			
SNP_13699_A_7804323	NC_021162.1	Ca_Kabuli_Chr03	7804323	TT	GG	GG	INTERGENIC			
SNP_13700_A_7804423	NC_021162.1	Ca_Kabuli_Chr03	7804423	TT	GG	GG	INTERGENIC			
SNP_13701_A_7804559	NC_021162.1	Ca_Kabuli_Chr03	7804559	TT	GG	GG	INTERGENIC			
SNP_13702_A_7804607	NC_021162.1	Ca_Kabuli_Chr03	7804607	AA	GG	GG	INTERGENIC			
SNP_13703_A_7830611	NC_021162.1	Ca_Kabuli_Chr03	7830611	CC	TT	TT	INTERGENIC			
SNP_13704_A_7868321	NC_021162.1	Ca_Kabuli_Chr03	7868321	AA	GG	GG	INTERGENIC			
SNP_13707_A_7959420	NC_021162.1	Ca_Kabuli_Chr03	7959420	AA	CC	CC	INTERGENIC			
SNP_13708_A_7959450	NC_021162.1	Ca_Kabuli_Chr03	7959450	TT	CC	CC	INTERGENIC			
SNP_13709_A_7959601	NC_021162.1	Ca_Kabuli_Chr03	7959601	AA	CC	CC	INTERGENIC			
SNP_13710_A_7959718	NC_021162.1	Ca_Kabuli_Chr03	7959718	AA	TT	TT	INTERGENIC			
SNP_13711_A_7959744	NC_021162.1	Ca_Kabuli_Chr03	7959744	AA	GG	GG	INTERGENIC			
SNP_13713_A_7959882	NC_021162.1	Ca_Kabuli_Chr03	7959882	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13714_A_7959948	NC_021162.1	Ca_Kabuli_Chr03	7959948	CC	TT	TT	INTERGENIC			
SNP_13715_A_7963472	NC_021162.1	Ca_Kabuli_Chr03	7963472	AA	GG	GG	INTERGENIC			
SNP_13716_A_7963568	NC_021162.1	Ca_Kabuli_Chr03	7963568	TT	CC	CC	INTERGENIC			
SNP_13717_A_7963783	NC_021162.1	Ca_Kabuli_Chr03	7963783	TT	CC	CC	INTERGENIC			
SNP_13718_A_7972876	NC_021162.1	Ca_Kabuli_Chr03	7972876	GG	AA	AA	INTERGENIC			
SNP_13719_A_8058436	NC_021162.1	Ca_Kabuli_Chr03	8058436	AA	TT	TT	INTERGENIC			
SNP_13720_A_8059620	NC_021162.1	Ca_Kabuli_Chr03	8059620	CC	AA	AA	INTERGENIC			
SNP_13722_A_8062018	NC_021162.1	Ca_Kabuli_Chr03	8062018	AA	GG	GG	INTERGENIC			
SNP_13723_A_8062043	NC_021162.1	Ca_Kabuli_Chr03	8062043	TT	CC	CC	INTERGENIC			
SNP_13724_A_8062078	NC_021162.1	Ca_Kabuli_Chr03	8062078	CC	TT	TT	INTERGENIC			
SNP_13725_A_8062094	NC_021162.1	Ca_Kabuli_Chr03	8062094	AA	CC	CC	INTERGENIC			
SNP_13726_A_8062098	NC_021162.1	Ca_Kabuli_Chr03	8062098	TT	CC	CC	INTERGENIC			
SNP_13727_A_8062124	NC_021162.1	Ca_Kabuli_Chr03	8062124	AA	CC	CC	INTERGENIC			
SNP_13728_A_8062197	NC_021162.1	Ca_Kabuli_Chr03	8062197	AA	CC	CC	INTERGENIC			
SNP_13729_A_8062348	NC_021162.1	Ca_Kabuli_Chr03	8062348	GG	AA	AA	INTERGENIC			
SNP_13730_A_8062386	NC_021162.1	Ca_Kabuli_Chr03	8062386	CC	TT	TT	INTERGENIC			
SNP_13731_A_8062389	NC_021162.1	Ca_Kabuli_Chr03	8062389	CC	AA	AA	INTERGENIC			
SNP_13732_A_8062451	NC_021162.1	Ca_Kabuli_Chr03	8062451	AA	CC	CC	INTERGENIC			
SNP_13733_A_8062510	NC_021162.1	Ca_Kabuli_Chr03	8062510	TT	CC	CC	INTERGENIC			
SNP_13734_A_8064480	NC_021162.1	Ca_Kabuli_Chr03	8064480	AA	GG	GG	INTERGENIC			
SNP_13735_A_8088131	NC_021162.1	Ca_Kabuli_Chr03	8088131	GG	CC	CC	INTERGENIC			
SNP_13736_A_8088149	NC_021162.1	Ca_Kabuli_Chr03	8088149	CC	AA	AA	INTERGENIC			

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SNP_13737_A_8088257	NC_021162.1	Ca_Kabuli_Chr03	8088257	AA	CC	CC	INTERGENIC			
SNP_13738_A_8088319	NC_021162.1	Ca_Kabuli_Chr03	8088319	TT	CC	CC	INTERGENIC			
SNP_13739_A_8088345	NC_021162.1	Ca_Kabuli_Chr03	8088345	GG	AA	AA	INTERGENIC			
SNP_13740_A_8088358	NC_021162.1	Ca_Kabuli_Chr03	8088358	TT	CC	CC	INTERGENIC			
SNP_13741_A_8088387	NC_021162.1	Ca_Kabuli_Chr03	8088387	TT	CC	CC	INTERGENIC			
SNP_13742_A_8088394	NC_021162.1	Ca_Kabuli_Chr03	8088394	TT	CC	CC	INTERGENIC			
SNP_13743_A_8088419	NC_021162.1	Ca_Kabuli_Chr03	8088419	AA	CC	CC	INTERGENIC			
SNP_13744_A_8088433	NC_021162.1	Ca_Kabuli_Chr03	8088433	CC	AA	AA	INTERGENIC			
SNP_13745_A_8088447	NC_021162.1	Ca_Kabuli_Chr03	8088447	GG	AA	AA	INTERGENIC			
SNP_13746_A_8088452	NC_021162.1	Ca_Kabuli_Chr03	8088452	GG	AA	AA	INTERGENIC			
SNP_13747_A_8088534	NC_021162.1	Ca_Kabuli_Chr03	8088534	AA	CC	CC	INTERGENIC			
SNP_13748_A_8088586	NC_021162.1	Ca_Kabuli_Chr03	8088586	TT	CC	CC	INTERGENIC			
SNP_13749_A_8089354	NC_021162.1	Ca_Kabuli_Chr03	8089354	AA	GG	GG	INTERGENIC			
SNP_13750_A_8132239	NC_021162.1	Ca_Kabuli_Chr03	8132239	TT	CC	CC	INTERGENIC			
SNP_13751_A_8157702	NC_021162.1	Ca_Kabuli_Chr03	8157702	TT	CC	CC	INTERGENIC			
SNP_13752_A_8178690	NC_021162.1	Ca_Kabuli_Chr03	8178690	AA	CC	CC	INTERGENIC			
SNP_13753_A_8200581	NC_021162.1	Ca_Kabuli_Chr03	8200581	GG	TT	TT	INTERGENIC			
SNP_13754_A_8218350	NC_021162.1	Ca_Kabuli_Chr03	8218350	AA	TT	TT	INTERGENIC			
SNP_13755_A_8218663	NC_021162.1	Ca_Kabuli_Chr03	8218663	CC	TT	TT	INTERGENIC			
SNP_13756_A_8222541	NC_021162.1	Ca_Kabuli_Chr03	8222541	TT	GG	GG	INTERGENIC			
SNP_13757_A_8234620	NC_021162.1	Ca_Kabuli_Chr03	8234620	AA	TT	TT	INTERGENIC			
SNP_13758_A_8234632	NC_021162.1	Ca_Kabuli_Chr03	8234632	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13759_A_8234697	NC_021162.1	Ca_Kabuli_Chr03	8234697	CC	TT	TT	INTERGENIC			
SNP_13760_A_8234899	NC_021162.1	Ca_Kabuli_Chr03	8234899	AA	GG	GG	INTERGENIC			
SNP_13761_A_8234900	NC_021162.1	Ca_Kabuli_Chr03	8234900	GG	TT	TT	INTERGENIC			
SNP_13762_A_8234984	NC_021162.1	Ca_Kabuli_Chr03	8234984	CC	TT	TT	INTERGENIC			
SNP_13763_A_8241319	NC_021162.1	Ca_Kabuli_Chr03	8241319	GG	CC	CC	INTERGENIC			
SNP_13764_A_8241427	NC_021162.1	Ca_Kabuli_Chr03	8241427	GG	AA	AA	INTERGENIC			
SNP_13765_A_8241880	NC_021162.1	Ca_Kabuli_Chr03	8241880	AA	GG	GG	INTERGENIC			
SNP_13766_A_8244320	NC_021162.1	Ca_Kabuli_Chr03	8244320	TT	CC	CC	INTERGENIC			
SNP_13768_A_8245668	NC_021162.1	Ca_Kabuli_Chr03	8245668	AA	GG	GG	INTERGENIC			
SNP_13769_A_8245671	NC_021162.1	Ca_Kabuli_Chr03	8245671	AA	CC	CC	INTERGENIC			
SNP_13770_A_8245781	NC_021162.1	Ca_Kabuli_Chr03	8245781	AA	GG	GG	INTERGENIC			
SNP_13771_A_8277711	NC_021162.1	Ca_Kabuli_Chr03	8277711	CC	TT	TT	INTERGENIC			
SNP_13772_A_8304850	NC_021162.1	Ca_Kabuli_Chr03	8304850	TT	CC	CC	INTERGENIC			
SNP_13773_A_8306740	NC_021162.1	Ca_Kabuli_Chr03	8306740	TT	CC	CC	INTERGENIC			
SNP_13774_A_8306785	NC_021162.1	Ca_Kabuli_Chr03	8306785	GG	AA	AA	INTERGENIC			
SNP_13775_A_8325330	NC_021162.1	Ca_Kabuli_Chr03	8325330	GG	TT	TT	INTERGENIC			
SNP_13777_A_8325511	NC_021162.1	Ca_Kabuli_Chr03	8325511	AA	GG	GG	INTERGENIC			
SNP_13778_A_8337514	NC_021162.1	Ca_Kabuli_Chr03	8337514	GG	AA	AA	INTERGENIC			
SNP_13779_A_8359463	NC_021162.1	Ca_Kabuli_Chr03	8359463	CC	AA	AA	INTERGENIC			
SNP_13780_A_8360453	NC_021162.1	Ca_Kabuli_Chr03	8360453	AA	GG	GG	INTERGENIC			
SNP_13781_A_8360473	NC_021162.1	Ca_Kabuli_Chr03	8360473	AA	GG	GG	INTERGENIC			
SNP_13782_A_8374894	NC_021162.1	Ca_Kabuli_Chr03	8374894	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13783_A_8383998	NC_021162.1	Ca_Kabuli_Chr03	8383998	GG	AA	AA	INTERGENIC		
SNP_13785_A_8393133	NC_021162.1	Ca_Kabuli_Chr03	8393133	AA	CC	CC	INTERGENIC		
SNP_13787_A_8413489	NC_021162.1	Ca_Kabuli_Chr03	8413489	TT	AA	AA	INTERGENIC		
SNP_13788_A_8436767	NC_021162.1	Ca_Kabuli_Chr03	8436767	TT	CC	CC	INTRON	101495626	uncharacterized LOC101495626
SNP_13789_A_8437126	NC_021162.1	Ca_Kabuli_Chr03	8437126	TT	GG	GG	INTRON	101495626	uncharacterized LOC101495626
SNP_13790_A_8470189	NC_021162.1	Ca_Kabuli_Chr03	8470189	CC	TT	TT	INTERGENIC		
SNP_13791_A_8501119	NC_021162.1	Ca_Kabuli_Chr03	8501119	CC	GG	GG	INTERGENIC		
SNP_13792_A_8501451	NC_021162.1	Ca_Kabuli_Chr03	8501451	AA	GG	GG	INTERGENIC		
SNP_13793_A_8501466	NC_021162.1	Ca_Kabuli_Chr03	8501466	AA	GG	GG	INTERGENIC		
SNP_13794_A_8501496	NC_021162.1	Ca_Kabuli_Chr03	8501496	TT	CC	CC	INTERGENIC		
SNP_13795_A_8501500	NC_021162.1	Ca_Kabuli_Chr03	8501500	GG	CC	CC	INTERGENIC		
SNP_13796_A_8501504	NC_021162.1	Ca_Kabuli_Chr03	8501504	CC	AA	AA	INTERGENIC		
SNP_13797_A_8501515	NC_021162.1	Ca_Kabuli_Chr03	8501515	CC	GG	GG	INTERGENIC		
SNP_13798_A_8501854	NC_021162.1	Ca_Kabuli_Chr03	8501854	GG	AA	AA	INTERGENIC		
SNP_13799_A_8501873	NC_021162.1	Ca_Kabuli_Chr03	8501873	AA	CC	CC	INTERGENIC		
SNP_13800_A_8501874	NC_021162.1	Ca_Kabuli_Chr03	8501874	GG	TT	TT	INTERGENIC		
SNP_13801_A_8501875	NC_021162.1	Ca_Kabuli_Chr03	8501875	AA	TT	TT	INTERGENIC		
SNP_13802_A_8501876	NC_021162.1	Ca_Kabuli_Chr03	8501876	GG	AA	AA	INTERGENIC		
SNP_13803_A_8501878	NC_021162.1	Ca_Kabuli_Chr03	8501878	GG	CC	CC	INTERGENIC		
SNP_13804_A_8501879	NC_021162.1	Ca_Kabuli_Chr03	8501879	GG	AA	AA	INTERGENIC		
SNP_13806_A_8527233	NC_021162.1	Ca_Kabuli_Chr03	8527233	GG	AA	AA	URR	101496833	vacuolar-processing enzyme-like
SNP_13807_A_8527266	NC_021162.1	Ca_Kabuli_Chr03	8527266	AA	GG	GG	URR	101496833	vacuolar-processing enzyme-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13808_A_8527618	NC_021162.1	Ca_Kabuli_Chr03	8527618	GG	AA	AA	INTERGENIC		
SNP_13809_A_8527761	NC_021162.1	Ca_Kabuli_Chr03	8527761	TT	CC	CC	INTERGENIC		
SNP_13810_A_8535045	NC_021162.1	Ca_Kabuli_Chr03	8535045	CC	TT	TT	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13811_A_8535179	NC_021162.1	Ca_Kabuli_Chr03	8535179	CC	TT	TT	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13812_A_8535228	NC_021162.1	Ca_Kabuli_Chr03	8535228	GG	TT	TT	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13813_A_8535241	NC_021162.1	Ca_Kabuli_Chr03	8535241	AA	CC	CC	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13814_A_8535291	NC_021162.1	Ca_Kabuli_Chr03	8535291	TT	CC	CC	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13815_A_8535364	NC_021162.1	Ca_Kabuli_Chr03	8535364	TT	CC	CC	INTRON	id44425	Unknown function
SNP_13816_A_8535369	NC_021162.1	Ca_Kabuli_Chr03	8535369	TT	CC	CC	INTRON	id44425	Unknown function
SNP_13817_A_8535487	NC_021162.1	Ca_Kabuli_Chr03	8535487	GG	TT	TT	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13818_A_8535510	NC_021162.1	Ca_Kabuli_Chr03	8535510	GG	CC	CC	INTRON	id44425	Unknown function
SNP_13819_A_8535523	NC_021162.1	Ca_Kabuli_Chr03	8535523	AA	GG	GG	INTRON	id44425	Unknown function
SNP_13820_A_8535749	NC_021162.1	Ca_Kabuli_Chr03	8535749	AA	CC	CC	INTRON	id44425	Unknown function
SNP_13821_A_8535779	NC_021162.1	Ca_Kabuli_Chr03	8535779	CC	TT	TT	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13822_A_8535920	NC_021162.1	Ca_Kabuli_Chr03	8535920	TT	CC	CC	INTRON	id44425	Unknown function
SNP_13823_A_8535940	NC_021162.1	Ca_Kabuli_Chr03	8535940	AA	CC	CC	INTRON	id44425	Unknown function
SNP_13824_A_8536213	NC_021162.1	Ca_Kabuli_Chr03	8536213	TT	CC	CC	NON_SYNONYMOUS_CODING	id44425	Unknown function
SNP_13825_A_8536275	NC_021162.1	Ca_Kabuli_Chr03	8536275	CC	TT	TT	INTRON	id44425	Unknown function
SNP_13826_A_8536295	NC_021162.1	Ca_Kabuli_Chr03	8536295	AA	TT	TT	INTRON	id44425	Unknown function
SNP_13827_A_8536568	NC_021162.1	Ca_Kabuli_Chr03	8536568	TT	CC	CC	INTRON	id44425	Unknown function
SNP_13828_A_8546011	NC_021162.1	Ca_Kabuli_Chr03	8546011	TT	CC	CC	DRR	101497152	vacuolar-processing enzyme-like
SNP_13829_A_8546013	NC_021162.1	Ca_Kabuli_Chr03	8546013	TT	CC	CC	DRR	101497152	vacuolar-processing enzyme-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13830_A_8550793	NC_021162.1	Ca_Kabuli_Chr03	8550793	GG	AA	AA	URR	101497152	vacuolar-processing enzyme-like
SNP_13831_A_8552217	NC_021162.1	Ca_Kabuli_Chr03	8552217	AA	GG	GG	URR	101497152	vacuolar-processing enzyme-like
SNP_13832_A_8582600	NC_021162.1	Ca_Kabuli_Chr03	8582600	CC	TT	TT	INTERGENIC		
SNP_13833_A_8609778	NC_021162.1	Ca_Kabuli_Chr03	8609778	GG	CC	CC	INTERGENIC		
SNP_13834_A_8622958	NC_021162.1	Ca_Kabuli_Chr03	8622958	AA	GG	GG	INTERGENIC		
SNP_13835_A_8624718	NC_021162.1	Ca_Kabuli_Chr03	8624718	CC	TT	TT	INTERGENIC		
SNP_13836_A_8624748	NC_021162.1	Ca_Kabuli_Chr03	8624748	TT	GG	GG	INTERGENIC		
SNP_13837_A_8651674	NC_021162.1	Ca_Kabuli_Chr03	8651674	AA	GG	GG	INTERGENIC		
SNP_13838_A_8651691	NC_021162.1	Ca_Kabuli_Chr03	8651691	TT	GG	GG	INTERGENIC		
SNP_13839_A_8651707	NC_021162.1	Ca_Kabuli_Chr03	8651707	CC	TT	TT	INTERGENIC		
SNP_13840_A_8651731	NC_021162.1	Ca_Kabuli_Chr03	8651731	TT	CC	CC	INTERGENIC		
SNP_13841_A_8687229	NC_021162.1	Ca_Kabuli_Chr03	8687229	AA	TT	TT	DRR	101498815	uncharacterized protein At2g39795, mitochondrial
SNP_13842_A_8723355	NC_021162.1	Ca_Kabuli_Chr03	8723355	CC	TT	TT	INTERGENIC		
SNP_13843_A_8727540	NC_021162.1	Ca_Kabuli_Chr03	8727540	AA	GG	GG	INTERGENIC		
SNP_13844_A_8737612	NC_021162.1	Ca_Kabuli_Chr03	8737612	AA	CC	CC	INTRON	101500403	uncharacterized LOC101500403
SNP_13846_A_8756629	NC_021162.1	Ca_Kabuli_Chr03	8756629	GG	AA	AA	INTERGENIC		
SNP_13847_A_8756665	NC_021162.1	Ca_Kabuli_Chr03	8756665	GG	AA	AA	INTERGENIC		
SNP_13848_A_8758481	NC_021162.1	Ca_Kabuli_Chr03	8758481	AA	GG	GG	INTERGENIC		
SNP_13849_A_8776093	NC_021162.1	Ca_Kabuli_Chr03	8776093	AA	TT	TT	INTERGENIC		
SNP_13850_A_8781540	NC_021162.1	Ca_Kabuli_Chr03	8781540	CC	GG	GG	DRR	101501027	uncharacterized LOC101501027
SNP_13851_A_8781548	NC_021162.1	Ca_Kabuli_Chr03	8781548	TT	GG	GG	DRR	101501027	uncharacterized LOC101501027
SNP_13852_A_8795909	NC_021162.1	Ca_Kabuli_Chr03	8795909	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13853_A_8800934	NC_021162.1	Ca_Kabuli_Chr03	8800934	TT	AA	AA	INTERGENIC			
SNP_13854_A_8800937	NC_021162.1	Ca_Kabuli_Chr03	8800937	TT	GG	GG	INTERGENIC			
SNP_13855_A_8805232	NC_021162.1	Ca_Kabuli_Chr03	8805232	GG	CC	CC	INTERGENIC			
SNP_13856_A_8823707	NC_021162.1	Ca_Kabuli_Chr03	8823707	AA	CC	CC	INTERGENIC			
SNP_13857_A_8836868	NC_021162.1	Ca_Kabuli_Chr03	8836868	TT	CC	CC	INTERGENIC			
SNP_13858_A_8861013	NC_021162.1	Ca_Kabuli_Chr03	8861013	CC	TT	TT	INTERGENIC			
SNP_13859_A_8932359	NC_021162.1	Ca_Kabuli_Chr03	8932359	CC	GG	GG	INTERGENIC			
SNP_13860_A_8932363	NC_021162.1	Ca_Kabuli_Chr03	8932363	TT	CC	CC	INTERGENIC			
SNP_13861_A_8932537	NC_021162.1	Ca_Kabuli_Chr03	8932537	AA	TT	TT	INTERGENIC			
SNP_13862_A_8932561	NC_021162.1	Ca_Kabuli_Chr03	8932561	TT	CC	CC	INTERGENIC			
SNP_13863_A_8932783	NC_021162.1	Ca_Kabuli_Chr03	8932783	GG	AA	AA	INTERGENIC			
SNP_13864_A_8932912	NC_021162.1	Ca_Kabuli_Chr03	8932912	AA	CC	CC	INTERGENIC			
SNP_13865_A_8933638	NC_021162.1	Ca_Kabuli_Chr03	8933638	GG	AA	AA	INTERGENIC			
SNP_13866_A_8941732	NC_021162.1	Ca_Kabuli_Chr03	8941732	AA	GG	GG	INTERGENIC			
SNP_13867_A_8941857	NC_021162.1	Ca_Kabuli_Chr03	8941857	AA	TT	TT	INTERGENIC			
SNP_13868_A_8941858	NC_021162.1	Ca_Kabuli_Chr03	8941858	TT	AA	AA	INTERGENIC			
SNP_13870_A_8992525	NC_021162.1	Ca_Kabuli_Chr03	8992525	AA	GG	GG	INTERGENIC			
SNP_13871_A_8992527	NC_021162.1	Ca_Kabuli_Chr03	8992527	AA	GG	GG	INTERGENIC			
SNP_13872_A_9012017	NC_021162.1	Ca_Kabuli_Chr03	9012017	AA	TT	TT	INTERGENIC			
SNP_13873_A_9041758	NC_021162.1	Ca_Kabuli_Chr03	9041758	GG	AA	AA	INTERGENIC			
SNP_13874_A_9042199	NC_021162.1	Ca_Kabuli_Chr03	9042199	TT	AA	AA	INTERGENIC			
SNP_13875_A_9060398	NC_021162.1	Ca_Kabuli_Chr03	9060398	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_13876_A_9060444	NC_021162.1	Ca_Kabuli_Chr03	9060444	TT	AA	CC	INTERGENIC			
SNP_13877_A_9060445	NC_021162.1	Ca_Kabuli_Chr03	9060445	AA	GG	GG	INTERGENIC			
SNP_13878_A_9060506	NC_021162.1	Ca_Kabuli_Chr03	9060506	AA	TT	TT	INTERGENIC			
SNP_13879_A_9060589	NC_021162.1	Ca_Kabuli_Chr03	9060589	TT	CC	CC	INTERGENIC			
SNP_13880_A_9060688	NC_021162.1	Ca_Kabuli_Chr03	9060688	CC	TT	TT	INTERGENIC			
SNP_13881_A_9060817	NC_021162.1	Ca_Kabuli_Chr03	9060817	GG	AA	AA	INTERGENIC			
SNP_13882_A_9060829	NC_021162.1	Ca_Kabuli_Chr03	9060829	CC	TT	TT	INTERGENIC			
SNP_13883_A_9060937	NC_021162.1	Ca_Kabuli_Chr03	9060937	GG	AA	AA	INTERGENIC			
SNP_13884_A_9063884	NC_021162.1	Ca_Kabuli_Chr03	9063884	AA	GG	GG	INTERGENIC			
SNP_13885_A_9063902	NC_021162.1	Ca_Kabuli_Chr03	9063902	CC	TT	TT	INTERGENIC			
SNP_13887_A_9063938	NC_021162.1	Ca_Kabuli_Chr03	9063938	AA	GG	GG	INTERGENIC			
SNP_13888_A_9063941	NC_021162.1	Ca_Kabuli_Chr03	9063941	TT	GG	GG	INTERGENIC			
SNP_13889_A_9063944	NC_021162.1	Ca_Kabuli_Chr03	9063944	AA	GG	GG	INTERGENIC			
SNP_13890_A_9063962	NC_021162.1	Ca_Kabuli_Chr03	9063962	AA	GG	GG	INTERGENIC			
SNP_13891_A_9063965	NC_021162.1	Ca_Kabuli_Chr03	9063965	GG	AA	AA	INTERGENIC			
SNP_13892_A_9063974	NC_021162.1	Ca_Kabuli_Chr03	9063974	AA	GG	GG	INTERGENIC			
SNP_13894_A_9063994	NC_021162.1	Ca_Kabuli_Chr03	9063994	GG	TT	TT	INTERGENIC			
SNP_13895_A_9064024	NC_021162.1	Ca_Kabuli_Chr03	9064024	AA	GG	GG	INTERGENIC			
SNP_13896_A_9064026	NC_021162.1	Ca_Kabuli_Chr03	9064026	AA	GG	GG	INTERGENIC			
SNP_13897_A_9064027	NC_021162.1	Ca_Kabuli_Chr03	9064027	TT	CC	CC	INTERGENIC			
SNP_13898_A_9064103	NC_021162.1	Ca_Kabuli_Chr03	9064103	TT	CC	CC	INTERGENIC			
SNP_13899_A_9067061	NC_021162.1	Ca_Kabuli_Chr03	9067061	CC	TT	TT	INTERGENIC			

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SNP_13900_A_9067342	NC_021162.1	Ca_Kabuli_Chr03	9067342	GG	CC	CC	INTERGENIC			
SNP_13901_A_9067373	NC_021162.1	Ca_Kabuli_Chr03	9067373	AA	GG	GG	INTERGENIC			
SNP_13902_A_9067400	NC_021162.1	Ca_Kabuli_Chr03	9067400	AA	GG	GG	INTERGENIC			
SNP_13903_A_9067425	NC_021162.1	Ca_Kabuli_Chr03	9067425	AA	GG	GG	INTERGENIC			
SNP_13904_A_9067479	NC_021162.1	Ca_Kabuli_Chr03	9067479	GG	AA	AA	INTERGENIC			
SNP_13906_A_9068216	NC_021162.1	Ca_Kabuli_Chr03	9068216	AA	GG	GG	INTERGENIC			
SNP_13907_A_9069190	NC_021162.1	Ca_Kabuli_Chr03	9069190	GG	AA	AA	INTERGENIC			
SNP_13908_A_9080718	NC_021162.1	Ca_Kabuli_Chr03	9080718	CC	TT	TT	INTERGENIC			
SNP_13909_A_9080719	NC_021162.1	Ca_Kabuli_Chr03	9080719	AA	GG	GG	INTERGENIC			
SNP_13910_A_9144617	NC_021162.1	Ca_Kabuli_Chr03	9144617	AA	GG	GG	NON_SYNONYMOUS_CODING	id44551		Unknown function
SNP_13911_A_9145288	NC_021162.1	Ca_Kabuli_Chr03	9145288	CC	TT	TT	URR	101504018		Unknown function
SNP_13914_A_9289289	NC_021162.1	Ca_Kabuli_Chr03	9289289	TT	AA	AA	INTERGENIC			
SNP_13915_A_9366999	NC_021162.1	Ca_Kabuli_Chr03	9366999	AA	CC	CC	INTERGENIC			
SNP_13916_A_9374597	NC_021162.1	Ca_Kabuli_Chr03	9374597	AA	GG	GG	INTERGENIC			
SNP_13917_A_9400875	NC_021162.1	Ca_Kabuli_Chr03	9400875	AA	TT	TT	INTERGENIC			
SNP_13918_A_9429751	NC_021162.1	Ca_Kabuli_Chr03	9429751	AA	GG	GG	INTERGENIC			
SNP_13919_A_9429779	NC_021162.1	Ca_Kabuli_Chr03	9429779	TT	CC	CC	INTERGENIC			
SNP_13920_A_9520829	NC_021162.1	Ca_Kabuli_Chr03	9520829	TT	GG	GG	INTERGENIC			
SNP_13921_A_9541205	NC_021162.1	Ca_Kabuli_Chr03	9541205	GG	AA	AA	INTERGENIC			
SNP_13922_A_9542398	NC_021162.1	Ca_Kabuli_Chr03	9542398	GG	AA	AA	INTERGENIC			
SNP_13923_A_9544618	NC_021162.1	Ca_Kabuli_Chr03	9544618	TT	AA	AA	INTERGENIC			
SNP_13924_A_9544623	NC_021162.1	Ca_Kabuli_Chr03	9544623	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13925_A_9544630	NC_021162.1	Ca_Kabuli_Chr03	9544630	GG	AA	AA	INTERGENIC		
SNP_13926_A_9577875	NC_021162.1	Ca_Kabuli_Chr03	9577875	AA	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13927_A_9577902	NC_021162.1	Ca_Kabuli_Chr03	9577902	CC	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13929_A_9577987	NC_021162.1	Ca_Kabuli_Chr03	9577987	AA	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13930_A_9578032	NC_021162.1	Ca_Kabuli_Chr03	9578032	TT	CC	CC	URR	101513994	uncharacterized LOC101513994
SNP_13931_A_9578048	NC_021162.1	Ca_Kabuli_Chr03	9578048	GG	TT	TT	URR	101513994	uncharacterized LOC101513994
SNP_13932_A_9578264	NC_021162.1	Ca_Kabuli_Chr03	9578264	TT	CC	CC	URR	101513994	uncharacterized LOC101513994
SNP_13933_A_9578341	NC_021162.1	Ca_Kabuli_Chr03	9578341	TT	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13934_A_9578346	NC_021162.1	Ca_Kabuli_Chr03	9578346	TT	CC	CC	URR	101513994	uncharacterized LOC101513994
SNP_13935_A_9578388	NC_021162.1	Ca_Kabuli_Chr03	9578388	TT	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13936_A_9578412	NC_021162.1	Ca_Kabuli_Chr03	9578412	TT	GG	GG	URR	101513994	uncharacterized LOC101513994
SNP_13938_A_9584678	NC_021162.1	Ca_Kabuli_Chr03	9584678	CC	AA	AA	URR	101513340	Unknown function
SNP_13939_A_9621789	NC_021162.1	Ca_Kabuli_Chr03	9621789	GG	AA	AA	INTERGENIC		
SNP_13940_A_9649822	NC_021162.1	Ca_Kabuli_Chr03	9649822	GG	TT	TT	INTERGENIC		
SNP_13941_A_9649887	NC_021162.1	Ca_Kabuli_Chr03	9649887	GG	AA	AA	INTERGENIC		
SNP_13942_A_9649917	NC_021162.1	Ca_Kabuli_Chr03	9649917	AA	CC	CC	INTERGENIC		
SNP_13943_A_9650310	NC_021162.1	Ca_Kabuli_Chr03	9650310	GG	TT	TT	INTERGENIC		
SNP_13944_A_9650499	NC_021162.1	Ca_Kabuli_Chr03	9650499	AA	CC	CC	INTERGENIC		
SNP_13945_A_9650559	NC_021162.1	Ca_Kabuli_Chr03	9650559	GG	AA	AA	INTERGENIC		
SNP_13946_A_9650583	NC_021162.1	Ca_Kabuli_Chr03	9650583	TT	CC	CC	INTERGENIC		
SNP_13947_A_9650654	NC_021162.1	Ca_Kabuli_Chr03	9650654	CC	TT	TT	INTERGENIC		
SNP_13948_A_9785182	NC_021162.1	Ca_Kabuli_Chr03	9785182	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13949_A_9795373	NC_021162.1	Ca_Kabuli_Chr03	9795373	TT	GG	GG	INTRON	101490559	importin beta-like SAD2
SNP_13950_A_9816487	NC_021162.1	Ca_Kabuli_Chr03	9816487	AA	TT	TT	INTERGENIC		
SNP_13951_A_9820265	NC_021162.1	Ca_Kabuli_Chr03	9820265	TT	GG	GG	INTERGENIC		
SNP_13952_A_9820285	NC_021162.1	Ca_Kabuli_Chr03	9820285	TT	CC	CC	INTERGENIC		
SNP_13953_A_9849186	NC_021162.1	Ca_Kabuli_Chr03	9849186	TT	AA	AA	INTERGENIC		
SNP_13954_A_9870764	NC_021162.1	Ca_Kabuli_Chr03	9870764	TT	CC	CC	INTERGENIC		
SNP_13955_A_9883097	NC_021162.1	Ca_Kabuli_Chr03	9883097	GG	CC	CC	INTERGENIC		
SNP_13956_A_9940409	NC_021162.1	Ca_Kabuli_Chr03	9940409	TT	CC	CC	INTRON	101501253	auxin-induced protein PCNT115-like
SNP_13957_A_9967749	NC_021162.1	Ca_Kabuli_Chr03	9967749	TT	CC	CC	INTRON	101501253	auxin-induced protein PCNT115-like
SNP_13958_A_9967750	NC_021162.1	Ca_Kabuli_Chr03	9967750	AA	TT	TT	INTRON	101501253	auxin-induced protein PCNT115-like
SNP_13959_A_9981830	NC_021162.1	Ca_Kabuli_Chr03	9981830	GG	TT	TT	INTRON	101501253	auxin-induced protein PCNT115-like
SNP_13961_A_10026538	NC_021162.1	Ca_Kabuli_Chr03	10026538	TT	AA	AA	INTERGENIC		
SNP_13962_A_10026674	NC_021162.1	Ca_Kabuli_Chr03	10026674	CC	TT	TT	INTERGENIC		
SNP_13963_A_10026736	NC_021162.1	Ca_Kabuli_Chr03	10026736	GG	AA	AA	INTERGENIC		
SNP_13964_A_10051995	NC_021162.1	Ca_Kabuli_Chr03	10051995	TT	AA	AA	INTERGENIC		
SNP_13965_A_10079811	NC_021162.1	Ca_Kabuli_Chr03	10079811	TT	GG	GG	INTERGENIC		
SNP_13966_A_10079833	NC_021162.1	Ca_Kabuli_Chr03	10079833	TT	CC	CC	INTERGENIC		
SNP_13967_A_10080350	NC_021162.1	Ca_Kabuli_Chr03	10080350	AA	TT	TT	INTERGENIC		
SNP_13968_A_10094580	NC_021162.1	Ca_Kabuli_Chr03	10094580	GG	TT	TT	URR	101501876	Unknown function
SNP_13969_A_10094592	NC_021162.1	Ca_Kabuli_Chr03	10094592	TT	CC	CC	URR	101501876	Unknown function
SNP_13971_A_10094657	NC_021162.1	Ca_Kabuli_Chr03	10094657	AA	GG	GG	URR	101501876	Unknown function
SNP_13972_A_10159074	NC_021162.1	Ca_Kabuli_Chr03	10159074	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13974_A_10159548	NC_021162.1	Ca_Kabuli_Chr03	10159548	TT	CC	CC	INTERGENIC		
SNP_13975_A_10169165	NC_021162.1	Ca_Kabuli_Chr03	10169165	GG	AA	AA	INTERGENIC		
SNP_13976_A_10169196	NC_021162.1	Ca_Kabuli_Chr03	10169196	GG	AA	AA	INTERGENIC		
SNP_13977_A_10169224	NC_021162.1	Ca_Kabuli_Chr03	10169224	AA	GG	GG	INTERGENIC		
SNP_13978_A_10169335	NC_021162.1	Ca_Kabuli_Chr03	10169335	TT	CC	CC	INTERGENIC		
SNP_13979_A_10169512	NC_021162.1	Ca_Kabuli_Chr03	10169512	AA	GG	GG	INTERGENIC		
SNP_13980_A_10169685	NC_021162.1	Ca_Kabuli_Chr03	10169685	GG	CC	CC	INTERGENIC		
SNP_13981_A_10184259	NC_021162.1	Ca_Kabuli_Chr03	10184259	AA	GG	GG	INTERGENIC		
SNP_13982_A_10184548	NC_021162.1	Ca_Kabuli_Chr03	10184548	AA	CC	CC	INTERGENIC		
SNP_13983_A_10189322	NC_021162.1	Ca_Kabuli_Chr03	10189322	GG	AA	AA	INTERGENIC		
SNP_13984_A_10193992	NC_021162.1	Ca_Kabuli_Chr03	10193992	TT	GG	GG	INTERGENIC		
SNP_13985_A_10254917	NC_021162.1	Ca_Kabuli_Chr03	10254917	TT	CC	CC	DRR	101502520	Unknown function
SNP_13986_A_10255230	NC_021162.1	Ca_Kabuli_Chr03	10255230	AA	GG	GG	DRR	101502520	Unknown function
SNP_13987_A_10255319	NC_021162.1	Ca_Kabuli_Chr03	10255319	AA	GG	GG	DRR	101502520	Unknown function
SNP_13988_A_10276087	NC_021162.1	Ca_Kabuli_Chr03	10276087	TT	CC	CC	INTERGENIC		
SNP_13989_A_10294440	NC_021162.1	Ca_Kabuli_Chr03	10294440	CC	TT	TT	INTERGENIC		
SNP_13991_A_10342271	NC_021162.1	Ca_Kabuli_Chr03	10342271	AA	GG	GG	INTERGENIC		
SNP_13992_A_10342292	NC_021162.1	Ca_Kabuli_Chr03	10342292	GG	AA	AA	INTERGENIC		
SNP_13993_A_10342294	NC_021162.1	Ca_Kabuli_Chr03	10342294	CC	TT	TT	INTERGENIC		
SNP_13994_A_10342694	NC_021162.1	Ca_Kabuli_Chr03	10342694	AA	CC	CC	INTERGENIC		
SNP_13996_A_10359095	NC_021162.1	Ca_Kabuli_Chr03	10359095	CC	TT	TT	INTERGENIC		
SNP_13997_A_10388046	NC_021162.1	Ca_Kabuli_Chr03	10388046	CC	TT	TT	URR	101503149	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_13999_A_10407092	NC_021162.1	Ca_Kabuli_Chr03	10407092	TT	CC	CC	INTERGENIC		
SNP_14000_A_10505142	NC_021162.1	Ca_Kabuli_Chr03	10505142	AA	CC	CC	INTERGENIC		
SNP_14001_A_10505172	NC_021162.1	Ca_Kabuli_Chr03	10505172	CC	AA	AA	INTERGENIC		
SNP_14002_A_10505263	NC_021162.1	Ca_Kabuli_Chr03	10505263	AA	CC	CC	INTERGENIC		
SNP_14003_A_10594902	NC_021162.1	Ca_Kabuli_Chr03	10594902	CC	TT	TT	INTERGENIC		
SNP_14004_A_10603132	NC_021162.1	Ca_Kabuli_Chr03	10603132	AA	GG	GG	INTERGENIC		
SNP_14005_A_10663701	NC_021162.1	Ca_Kabuli_Chr03	10663701	TT	AA	AA	INTERGENIC		
SNP_14006_A_10670280	NC_021162.1	Ca_Kabuli_Chr03	10670280	TT	CC	CC	DRR	101506375	Unknown function
SNP_14007_A_10670635	NC_021162.1	Ca_Kabuli_Chr03	10670635	AA	GG	GG	SYNONYMOUS_CODING	101506375	Unknown function
SNP_14010_A_10851683	NC_021162.1	Ca_Kabuli_Chr03	10851683	GG	AA	AA	INTERGENIC		
SNP_14011_A_10851707	NC_021162.1	Ca_Kabuli_Chr03	10851707	AA	GG	GG	INTERGENIC		
SNP_14012_A_10851878	NC_021162.1	Ca_Kabuli_Chr03	10851878	TT	CC	CC	INTERGENIC		
SNP_14013_A_10851895	NC_021162.1	Ca_Kabuli_Chr03	10851895	AA	GG	GG	INTERGENIC		
SNP_14014_A_10852009	NC_021162.1	Ca_Kabuli_Chr03	10852009	AA	GG	GG	INTERGENIC		
SNP_14015_A_10852024	NC_021162.1	Ca_Kabuli_Chr03	10852024	AA	GG	GG	INTERGENIC		
SNP_14017_A_10892832	NC_021162.1	Ca_Kabuli_Chr03	10892832	GG	AA	AA	INTERGENIC		
SNP_14018_A_10919080	NC_021162.1	Ca_Kabuli_Chr03	10919080	GG	AA	AA	DRR	101515508	mucin-5AC-like
SNP_14019_A_10922915	NC_021162.1	Ca_Kabuli_Chr03	10922915	TT	GG	GG	URR	101515508	mucin-5AC-like
SNP_14020_A_10923019	NC_021162.1	Ca_Kabuli_Chr03	10923019	TT	AA	AA	URR	101515508	mucin-5AC-like
SNP_14021_A_10923031	NC_021162.1	Ca_Kabuli_Chr03	10923031	AA	GG	GG	URR	101515508	mucin-5AC-like
SNP_14022_A_10923148	NC_021162.1	Ca_Kabuli_Chr03	10923148	AA	GG	GG	URR	101515508	mucin-5AC-like
SNP_14024_A_10923178	NC_021162.1	Ca_Kabuli_Chr03	10923178	AA	GG	GG	URR	101515508	mucin-5AC-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14025_A_10923181	NC_021162.1	Ca_Kabuli_Chr03	10923181	GG	AA	AA	URR	101515508	mucin-5AC-like
SNP_14028_A_10923298	NC_021162.1	Ca_Kabuli_Chr03	10923298	GG	AA	AA	URR	101515508	mucin-5AC-like
SNP_14029_A_10923400	NC_021162.1	Ca_Kabuli_Chr03	10923400	AA	TT	TT	URR	101515508	mucin-5AC-like
SNP_14030_A_10923435	NC_021162.1	Ca_Kabuli_Chr03	10923435	CC	AA	AA	URR	101515508	mucin-5AC-like
SNP_14031_A_10923472	NC_021162.1	Ca_Kabuli_Chr03	10923472	TT	CC	CC	URR	101515508	mucin-5AC-like
SNP_14032_A_10923478	NC_021162.1	Ca_Kabuli_Chr03	10923478	AA	GG	GG	URR	101515508	mucin-5AC-like
SNP_14033_A_10949211	NC_021162.1	Ca_Kabuli_Chr03	10949211	TT	CC	CC	INTERGENIC		
SNP_14034_A_10954227	NC_021162.1	Ca_Kabuli_Chr03	10954227	TT	CC	CC	INTERGENIC		
SNP_14035_A_10954463	NC_021162.1	Ca_Kabuli_Chr03	10954463	GG	TT	TT	INTERGENIC		
SNP_14036_A_10954524	NC_021162.1	Ca_Kabuli_Chr03	10954524	CC	TT	TT	INTERGENIC		
SNP_14037_A_10994298	NC_021162.1	Ca_Kabuli_Chr03	10994298	GG	AA	AA	INTERGENIC		
SNP_14038_A_10995811	NC_021162.1	Ca_Kabuli_Chr03	10995811	CC	TT	TT	INTERGENIC		
SNP_14039_A_10995829	NC_021162.1	Ca_Kabuli_Chr03	10995829	CC	GG	GG	INTERGENIC		
SNP_14040_A_10995838	NC_021162.1	Ca_Kabuli_Chr03	10995838	GG	AA	AA	INTERGENIC		
SNP_14041_A_10995841	NC_021162.1	Ca_Kabuli_Chr03	10995841	CC	TT	TT	INTERGENIC		
SNP_14042_A_11011487	NC_021162.1	Ca_Kabuli_Chr03	11011487	GG	AA	AA	INTERGENIC		
SNP_14043_A_11011499	NC_021162.1	Ca_Kabuli_Chr03	11011499	AA	GG	GG	INTERGENIC		
SNP_14045_A_11142866	NC_021162.1	Ca_Kabuli_Chr03	11142866	AA	CC	CC	INTERGENIC		
SNP_14046_A_11142872	NC_021162.1	Ca_Kabuli_Chr03	11142872	TT	CC	CC	INTERGENIC		
SNP_14047_A_11142945	NC_021162.1	Ca_Kabuli_Chr03	11142945	TT	CC	CC	INTERGENIC		
SNP_14048_A_11146549	NC_021162.1	Ca_Kabuli_Chr03	11146549	AA	GG	GG	INTERGENIC		
SNP_14049_A_11162419	NC_021162.1	Ca_Kabuli_Chr03	11162419	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14050_A_11177241	NC_021162.1	Ca_Kabuli_Chr03	11177241	TT	CC	CC	URR	101489261	F-box/kelch-repeat protein At3g23880-like
SNP_14052_A_11231891	NC_021162.1	Ca_Kabuli_Chr03	11231891	AA	GG	GG	INTERGENIC		
SNP_14053_A_11238766	NC_021162.1	Ca_Kabuli_Chr03	11238766	TT	AA	AA	INTERGENIC		
SNP_14054_A_11252272	NC_021162.1	Ca_Kabuli_Chr03	11252272	AA	GG	GG	INTERGENIC		
SNP_14055_A_11252282	NC_021162.1	Ca_Kabuli_Chr03	11252282	AA	GG	GG	INTERGENIC		
SNP_14056_A_11252582	NC_021162.1	Ca_Kabuli_Chr03	11252582	GG	TT	TT	INTERGENIC		
SNP_14057_A_11252627	NC_021162.1	Ca_Kabuli_Chr03	11252627	AA	TT	TT	INTERGENIC		
SNP_14058_A_11262847	NC_021162.1	Ca_Kabuli_Chr03	11262847	GG	AA	AA	INTERGENIC		
SNP_14060_A_11282153	NC_021162.1	Ca_Kabuli_Chr03	11282153	GG	TT	TT	INTERGENIC		
SNP_14061_A_11282367	NC_021162.1	Ca_Kabuli_Chr03	11282367	CC	TT	TT	INTERGENIC		
SNP_14062_A_11282433	NC_021162.1	Ca_Kabuli_Chr03	11282433	AA	GG	GG	INTERGENIC		
SNP_14063_A_11326762	NC_021162.1	Ca_Kabuli_Chr03	11326762	TT	CC	CC	INTERGENIC		
SNP_14064_A_11326798	NC_021162.1	Ca_Kabuli_Chr03	11326798	AA	GG	GG	INTERGENIC		
SNP_14065_A_11326815	NC_021162.1	Ca_Kabuli_Chr03	11326815	TT	CC	CC	INTERGENIC		
SNP_14066_A_11326818	NC_021162.1	Ca_Kabuli_Chr03	11326818	GG	AA	AA	INTERGENIC		
SNP_14068_A_11402472	NC_021162.1	Ca_Kabuli_Chr03	11402472	AA	GG	GG	INTERGENIC		
SNP_14069_A_11402539	NC_021162.1	Ca_Kabuli_Chr03	11402539	TT	CC	CC	INTERGENIC		
SNP_14070_A_11402823	NC_021162.1	Ca_Kabuli_Chr03	11402823	TT	CC	CC	INTERGENIC		
SNP_14071_A_11402894	NC_021162.1	Ca_Kabuli_Chr03	11402894	TT	AA	AA	INTERGENIC		
SNP_14072_A_11447632	NC_021162.1	Ca_Kabuli_Chr03	11447632	TT	CC	CC	INTERGENIC		
SNP_14073_A_11457567	NC_021162.1	Ca_Kabuli_Chr03	11457567	CC	TT	TT	INTRON	101492158	uncharacterized LOC101492158
SNP_14074_A_11465059	NC_021162.1	Ca_Kabuli_Chr03	11465059	AA	GG	GG	INTRON	101492158	uncharacterized LOC101492158

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14076_A_11497986	NC_021162.1	Ca_Kabuli_Chr03	11497986	CC	TT	TT	INTERGENIC			
SNP_14077_A_11498215	NC_021162.1	Ca_Kabuli_Chr03	11498215	TT	GG	GG	INTERGENIC			
SNP_14078_A_11498275	NC_021162.1	Ca_Kabuli_Chr03	11498275	TT	CC	CC	INTERGENIC			
SNP_14079_A_11498292	NC_021162.1	Ca_Kabuli_Chr03	11498292	TT	CC	CC	INTERGENIC			
SNP_14080_A_11498307	NC_021162.1	Ca_Kabuli_Chr03	11498307	TT	CC	CC	INTERGENIC			
SNP_14081_A_11498315	NC_021162.1	Ca_Kabuli_Chr03	11498315	GG	AA	AA	INTERGENIC			
SNP_14082_A_11498329	NC_021162.1	Ca_Kabuli_Chr03	11498329	CC	TT	TT	INTERGENIC			
SNP_14083_A_11498477	NC_021162.1	Ca_Kabuli_Chr03	11498477	TT	CC	CC	INTERGENIC			
SNP_14084_A_11498554	NC_021162.1	Ca_Kabuli_Chr03	11498554	TT	AA	AA	INTERGENIC			
SNP_14085_A_11519778	NC_021162.1	Ca_Kabuli_Chr03	11519778	GG	AA	AA	INTERGENIC			
SNP_14086_A_11519783	NC_021162.1	Ca_Kabuli_Chr03	11519783	AA	TT	TT	INTERGENIC			
SNP_14087_A_11519785	NC_021162.1	Ca_Kabuli_Chr03	11519785	TT	CC	CC	INTERGENIC			
SNP_14089_A_11520310	NC_021162.1	Ca_Kabuli_Chr03	11520310	TT	CC	CC	INTERGENIC			
SNP_14090_A_11527391	NC_021162.1	Ca_Kabuli_Chr03	11527391	AA	GG	GG	INTERGENIC			
SNP_14091_A_11527460	NC_021162.1	Ca_Kabuli_Chr03	11527460	GG	AA	AA	INTERGENIC			
SNP_14092_A_11527466	NC_021162.1	Ca_Kabuli_Chr03	11527466	TT	CC	CC	INTERGENIC			
SNP_14093_A_11527509	NC_021162.1	Ca_Kabuli_Chr03	11527509	AA	TT	TT	INTERGENIC			
SNP_14094_A_11527511	NC_021162.1	Ca_Kabuli_Chr03	11527511	AA	GG	GG	INTERGENIC			
SNP_14095_A_11527576	NC_021162.1	Ca_Kabuli_Chr03	11527576	AA	GG	GG	INTERGENIC			
SNP_14096_A_11527832	NC_021162.1	Ca_Kabuli_Chr03	11527832	AA	GG	GG	INTERGENIC			
SNP_14097_A_11527905	NC_021162.1	Ca_Kabuli_Chr03	11527905	AA	GG	GG	INTERGENIC			
SNP_14098_A_11527927	NC_021162.1	Ca_Kabuli_Chr03	11527927	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14099_A_11528043	NC_021162.1	Ca_Kabuli_Chr03	11528043	AA	GG	GG	INTERGENIC		
SNP_14100_A_11532092	NC_021162.1	Ca_Kabuli_Chr03	11532092	GG	TT	TT	INTERGENIC		
SNP_14101_A_11536190	NC_021162.1	Ca_Kabuli_Chr03	11536190	CC	TT	TT	INTERGENIC		
SNP_14103_A_11592330	NC_021162.1	Ca_Kabuli_Chr03	11592330	TT	CC	CC	INTERGENIC		
SNP_14105_A_11608346	NC_021162.1	Ca_Kabuli_Chr03	11608346	GG	AA	AA	INTERGENIC		
SNP_14106_A_11608356	NC_021162.1	Ca_Kabuli_Chr03	11608356	CC	TT	TT	INTERGENIC		
SNP_14107_A_11608396	NC_021162.1	Ca_Kabuli_Chr03	11608396	AA	GG	GG	INTERGENIC		
SNP_14108_A_11626479	NC_021162.1	Ca_Kabuli_Chr03	11626479	GG	AA	AA	INTRON	101512052	uncharacterized LOC101512052
SNP_14109_A_11714815	NC_021162.1	Ca_Kabuli_Chr03	11714815	CC	TT	TT	INTERGENIC		
SNP_14110_A_11732469	NC_021162.1	Ca_Kabuli_Chr03	11732469	AA	GG	GG	INTERGENIC		
SNP_14111_A_11760835	NC_021162.1	Ca_Kabuli_Chr03	11760835	CC	TT	TT	INTERGENIC		
SNP_14113_A_11765448	NC_021162.1	Ca_Kabuli_Chr03	11765448	AA	CC	TT	INTERGENIC		
SNP_14114_A_11765515	NC_021162.1	Ca_Kabuli_Chr03	11765515	CC	TT	TT	INTERGENIC		
SNP_14115_A_11765522	NC_021162.1	Ca_Kabuli_Chr03	11765522	TT	CC	CC	INTERGENIC		
SNP_14116_A_11774111	NC_021162.1	Ca_Kabuli_Chr03	11774111	AA	TT	TT	INTERGENIC		
SNP_14117_A_11774179	NC_021162.1	Ca_Kabuli_Chr03	11774179	AA	TT	TT	INTERGENIC		
SNP_14118_A_11774194	NC_021162.1	Ca_Kabuli_Chr03	11774194	AA	CC	CC	INTERGENIC		
SNP_14119_A_11774207	NC_021162.1	Ca_Kabuli_Chr03	11774207	TT	GG	GG	INTERGENIC		
SNP_14120_A_11774222	NC_021162.1	Ca_Kabuli_Chr03	11774222	TT	AA	AA	INTERGENIC		
SNP_14121_A_11774230	NC_021162.1	Ca_Kabuli_Chr03	11774230	CC	AA	AA	INTERGENIC		
SNP_14122_A_11774261	NC_021162.1	Ca_Kabuli_Chr03	11774261	GG	AA	AA	INTERGENIC		
SNP_14123_A_11774312	NC_021162.1	Ca_Kabuli_Chr03	11774312	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14124_A_11774315	NC_021162.1	Ca_Kabuli_Chr03	11774315	TT	CC	CC	INTERGENIC		
SNP_14125_A_11778567	NC_021162.1	Ca_Kabuli_Chr03	11778567	CC	TT	TT	INTERGENIC		
SNP_14126_A_11784968	NC_021162.1	Ca_Kabuli_Chr03	11784968	AA	GG	GG	INTERGENIC		
SNP_14127_A_11805351	NC_021162.1	Ca_Kabuli_Chr03	11805351	AA	TT	TT	INTRON	101514217	uncharacterized LOC101514217
SNP_14128_A_11830671	NC_021162.1	Ca_Kabuli_Chr03	11830671	TT	AA	AA	INTERGENIC		
SNP_14130_A_11906884	NC_021162.1	Ca_Kabuli_Chr03	11906884	GG	CC	CC	URR	101493486	E3 ubiquitin-protein ligase SDIR1-like
SNP_14131_A_11906908	NC_021162.1	Ca_Kabuli_Chr03	11906908	GG	AA	AA	URR	101493486	E3 ubiquitin-protein ligase SDIR1-like
SNP_14132_A_11906920	NC_021162.1	Ca_Kabuli_Chr03	11906920	CC	TT	TT	URR	101493486	E3 ubiquitin-protein ligase SDIR1-like
SNP_14133_A_11906921	NC_021162.1	Ca_Kabuli_Chr03	11906921	TT	CC	CC	URR	101493486	E3 ubiquitin-protein ligase SDIR1-like
SNP_14134_A_11906924	NC_021162.1	Ca_Kabuli_Chr03	11906924	GG	AA	AA	URR	101493486	E3 ubiquitin-protein ligase SDIR1-like
SNP_14136_A_11930408	NC_021162.1	Ca_Kabuli_Chr03	11930408	GG	AA	AA	INTERGENIC		
SNP_14137_A_11930841	NC_021162.1	Ca_Kabuli_Chr03	11930841	CC	AA	AA	DRR	101497696	protein FAR1-RELATED SEQUENCE 5-like
SNP_14138_A_11930873	NC_021162.1	Ca_Kabuli_Chr03	11930873	TT	CC	CC	DRR	101497696	protein FAR1-RELATED SEQUENCE 5-like
SNP_14139_A_11950220	NC_021162.1	Ca_Kabuli_Chr03	11950220	TT	CC	CC	INTERGENIC		
SNP_14140_A_11950231	NC_021162.1	Ca_Kabuli_Chr03	11950231	CC	AA	AA	INTERGENIC		
SNP_14141_A_11950316	NC_021162.1	Ca_Kabuli_Chr03	11950316	GG	AA	AA	INTERGENIC		
SNP_14142_A_11960418	NC_021162.1	Ca_Kabuli_Chr03	11960418	AA	GG	GG	INTERGENIC		
SNP_14143_A_11960419	NC_021162.1	Ca_Kabuli_Chr03	11960419	TT	CC	CC	INTERGENIC		
SNP_14144_A_11960421	NC_021162.1	Ca_Kabuli_Chr03	11960421	CC	AA	AA	INTERGENIC		
SNP_14145_A_11981616	NC_021162.1	Ca_Kabuli_Chr03	11981616	TT	CC	CC	INTERGENIC		
SNP_14146_A_12008370	NC_021162.1	Ca_Kabuli_Chr03	12008370	AA	GG	GG	INTERGENIC		
SNP_14147_A_12032365	NC_021162.1	Ca_Kabuli_Chr03	12032365	GG	AA	AA	INTERGENIC		

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SNP_14148_A_12032397	NC_021162.1	Ca_Kabuli_Chr03	12032397	AA	CC	CC	INTERGENIC		
SNP_14149_A_12032401	NC_021162.1	Ca_Kabuli_Chr03	12032401	TT	CC	CC	INTERGENIC		
SNP_14150_A_12032407	NC_021162.1	Ca_Kabuli_Chr03	12032407	AA	TT	TT	INTERGENIC		
SNP_14151_A_12032462	NC_021162.1	Ca_Kabuli_Chr03	12032462	AA	GG	GG	INTERGENIC		
SNP_14152_A_12034202	NC_021162.1	Ca_Kabuli_Chr03	12034202	CC	AA	AA	INTERGENIC		
SNP_14153_A_12061982	NC_021162.1	Ca_Kabuli_Chr03	12061982	AA	GG	GG	INTRON	101494130	uncharacterized LOC101494130
SNP_14154_A_12080826	NC_021162.1	Ca_Kabuli_Chr03	12080826	AA	CC	CC	INTERGENIC		
SNP_14155_A_12111545	NC_021162.1	Ca_Kabuli_Chr03	12111545	CC	TT	TT	INTERGENIC		
SNP_14156_A_12111753	NC_021162.1	Ca_Kabuli_Chr03	12111753	AA	TT	TT	INTERGENIC		
SNP_14157_A_12111758	NC_021162.1	Ca_Kabuli_Chr03	12111758	TT	AA	AA	INTERGENIC		
SNP_14158_A_12111759	NC_021162.1	Ca_Kabuli_Chr03	12111759	TT	CC	CC	INTERGENIC		
SNP_14159_A_12111760	NC_021162.1	Ca_Kabuli_Chr03	12111760	TT	AA	AA	INTERGENIC		
SNP_14160_A_12111879	NC_021162.1	Ca_Kabuli_Chr03	12111879	CC	TT	TT	INTERGENIC		
SNP_14161_A_12117441	NC_021162.1	Ca_Kabuli_Chr03	12117441	AA	CC	CC	INTRON	101499021	pentatricopeptide repeat-containing protein At1g63330-like
SNP_14163_A_12163829	NC_021162.1	Ca_Kabuli_Chr03	12163829	CC	AA	AA	INTERGENIC		
SNP_14164_A_12163866	NC_021162.1	Ca_Kabuli_Chr03	12163866	GG	AA	AA	INTERGENIC		
SNP_14165_A_12208945	NC_021162.1	Ca_Kabuli_Chr03	12208945	AA	GG	GG	INTERGENIC		
SNP_14166_A_12345927	NC_021162.1	Ca_Kabuli_Chr03	12345927	CC	TT	TT	INTERGENIC		
SNP_14167_A_12345942	NC_021162.1	Ca_Kabuli_Chr03	12345942	GG	AA	AA	INTERGENIC		
SNP_14168_A_12348432	NC_021162.1	Ca_Kabuli_Chr03	12348432	AA	TT	TT	INTERGENIC		
SNP_14169_A_12387051	NC_021162.1	Ca_Kabuli_Chr03	12387051	AA	CC	CC	INTERGENIC		
SNP_14170_A_12387488	NC_021162.1	Ca_Kabuli_Chr03	12387488	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14171_A_12387519	NC_021162.1	Ca_Kabuli_Chr03	12387519	GG	AA	AA	INTERGENIC		
SNP_14172_A_12387588	NC_021162.1	Ca_Kabuli_Chr03	12387588	AA	GG	GG	INTERGENIC		
SNP_14173_A_12387619	NC_021162.1	Ca_Kabuli_Chr03	12387619	GG	TT	TT	INTERGENIC		
SNP_14174_A_12387668	NC_021162.1	Ca_Kabuli_Chr03	12387668	TT	CC	CC	INTERGENIC		
SNP_14175_A_12387698	NC_021162.1	Ca_Kabuli_Chr03	12387698	TT	CC	CC	INTERGENIC		
SNP_14176_A_12423437	NC_021162.1	Ca_Kabuli_Chr03	12423437	CC	GG	GG	URR	101506268	serine/threonine-protein phosphatase 7 long form homolog
SNP_14177_A_12423454	NC_021162.1	Ca_Kabuli_Chr03	12423454	GG	TT	TT	URR	101506268	serine/threonine-protein phosphatase 7 long form homolog
SNP_14178_A_12423576	NC_021162.1	Ca_Kabuli_Chr03	12423576	CC	TT	TT	URR	101506268	serine/threonine-protein phosphatase 7 long form homolog
SNP_14179_A_12423839	NC_021162.1	Ca_Kabuli_Chr03	12423839	CC	TT	TT	URR	101506268	serine/threonine-protein phosphatase 7 long form homolog
SNP_14180_A_12432324	NC_021162.1	Ca_Kabuli_Chr03	12432324	TT	AA	AA	INTERGENIC		
SNP_14181_A_12432325	NC_021162.1	Ca_Kabuli_Chr03	12432325	AA	CC	CC	INTERGENIC		
SNP_14182_A_12432493	NC_021162.1	Ca_Kabuli_Chr03	12432493	TT	CC	CC	INTERGENIC		
SNP_14183_A_12432818	NC_021162.1	Ca_Kabuli_Chr03	12432818	CC	GG	GG	INTERGENIC		
SNP_14184_A_12432832	NC_021162.1	Ca_Kabuli_Chr03	12432832	TT	CC	CC	INTERGENIC		
SNP_14185_A_12438400	NC_021162.1	Ca_Kabuli_Chr03	12438400	TT	CC	CC	INTERGENIC		
SNP_14186_A_12451958	NC_021162.1	Ca_Kabuli_Chr03	12451958	AA	GG	GG	INTERGENIC		
SNP_14187_A_12529502	NC_021162.1	Ca_Kabuli_Chr03	12529502	AA	GG	GG	INTERGENIC		
SNP_14188_A_12560207	NC_021162.1	Ca_Kabuli_Chr03	12560207	CC	TT	TT	INTERGENIC		
SNP_14189_A_12565550	NC_021162.1	Ca_Kabuli_Chr03	12565550	CC	TT	TT	INTERGENIC		
SNP_14190_A_12581437	NC_021162.1	Ca_Kabuli_Chr03	12581437	TT	CC	CC	INTERGENIC		
SNP_14191_A_12581643	NC_021162.1	Ca_Kabuli_Chr03	12581643	AA	GG	GG	INTERGENIC		
SNP_14192_A_12581704	NC_021162.1	Ca_Kabuli_Chr03	12581704	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14193_A_12581961	NC_021162.1	Ca_Kabuli_Chr03	12581961	CC	TT	TT	INTERGENIC			
SNP_14194_A_12582006	NC_021162.1	Ca_Kabuli_Chr03	12582006	AA	TT	TT	INTERGENIC			
SNP_14195_A_12582123	NC_021162.1	Ca_Kabuli_Chr03	12582123	GG	AA	AA	INTERGENIC			
SNP_14196_A_12582140	NC_021162.1	Ca_Kabuli_Chr03	12582140	GG	AA	AA	INTERGENIC			
SNP_14197_A_12593264	NC_021162.1	Ca_Kabuli_Chr03	12593264	CC	TT	TT	INTERGENIC			
SNP_14198_A_12660292	NC_021162.1	Ca_Kabuli_Chr03	12660292	TT	AA	AA	INTERGENIC			
SNP_14199_A_12684039	NC_021162.1	Ca_Kabuli_Chr03	12684039	TT	CC	CC	INTERGENIC			
SNP_14201_A_12699596	NC_021162.1	Ca_Kabuli_Chr03	12699596	AA	CC	CC	INTERGENIC			
SNP_14202_A_12699629	NC_021162.1	Ca_Kabuli_Chr03	12699629	CC	TT	TT	INTERGENIC			
SNP_14203_A_12699638	NC_021162.1	Ca_Kabuli_Chr03	12699638	GG	AA	AA	INTERGENIC			
SNP_14204_A_12699656	NC_021162.1	Ca_Kabuli_Chr03	12699656	AA	CC	CC	INTERGENIC			
SNP_14206_A_12717364	NC_021162.1	Ca_Kabuli_Chr03	12717364	CC	AA	AA	INTERGENIC			
SNP_14207_A_12739819	NC_021162.1	Ca_Kabuli_Chr03	12739819	CC	TT	TT	INTERGENIC			
SNP_14208_A_12739850	NC_021162.1	Ca_Kabuli_Chr03	12739850	GG	CC	CC	INTERGENIC			
SNP_14209_A_12739882	NC_021162.1	Ca_Kabuli_Chr03	12739882	AA	GG	GG	INTERGENIC			
SNP_14210_A_12740154	NC_021162.1	Ca_Kabuli_Chr03	12740154	AA	GG	GG	INTERGENIC			
SNP_14211_A_12740161	NC_021162.1	Ca_Kabuli_Chr03	12740161	TT	CC	CC	INTERGENIC			
SNP_14213_A_12747046	NC_021162.1	Ca_Kabuli_Chr03	12747046	CC	TT	TT	INTERGENIC			
SNP_14214_A_12779120	NC_021162.1	Ca_Kabuli_Chr03	12779120	AA	GG	GG	INTERGENIC			
SNP_14215_A_12779140	NC_021162.1	Ca_Kabuli_Chr03	12779140	TT	CC	CC	INTERGENIC			
SNP_14216_A_12779176	NC_021162.1	Ca_Kabuli_Chr03	12779176	TT	CC	CC	INTERGENIC			
SNP_14217_A_12779512	NC_021162.1	Ca_Kabuli_Chr03	12779512	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14218_A_12793719	NC_021162.1	Ca_Kabuli_Chr03	12793719	TT	AA	AA	INTERGENIC			
SNP_14219_A_12809049	NC_021162.1	Ca_Kabuli_Chr03	12809049	AA	CC	CC	INTERGENIC			
SNP_14220_A_12809058	NC_021162.1	Ca_Kabuli_Chr03	12809058	TT	GG	GG	INTERGENIC			
SNP_14221_A_12809104	NC_021162.1	Ca_Kabuli_Chr03	12809104	AA	GG	GG	INTERGENIC			
SNP_14222_A_12809371	NC_021162.1	Ca_Kabuli_Chr03	12809371	GG	AA	AA	INTERGENIC			
SNP_14223_A_12809372	NC_021162.1	Ca_Kabuli_Chr03	12809372	TT	CC	CC	INTERGENIC			
SNP_14224_A_12829739	NC_021162.1	Ca_Kabuli_Chr03	12829739	CC	TT	TT	INTERGENIC			
SNP_14226_A_12947328	NC_021162.1	Ca_Kabuli_Chr03	12947328	GG	AA	AA	URR	101504021	CASP-like protein 4D1	
SNP_14227_A_12969802	NC_021162.1	Ca_Kabuli_Chr03	12969802	TT	AA	AA	INTERGENIC			
SNP_14229_A_12993808	NC_021162.1	Ca_Kabuli_Chr03	12993808	AA	TT	TT	INTERGENIC			
SNP_14230_A_12993826	NC_021162.1	Ca_Kabuli_Chr03	12993826	CC	TT	TT	INTERGENIC			
SNP_14231_A_12993827	NC_021162.1	Ca_Kabuli_Chr03	12993827	AA	GG	GG	INTERGENIC			
SNP_14232_A_12993841	NC_021162.1	Ca_Kabuli_Chr03	12993841	TT	GG	GG	INTERGENIC			
SNP_14233_A_12993846	NC_021162.1	Ca_Kabuli_Chr03	12993846	GG	AA	AA	INTERGENIC			
SNP_14234_A_12993915	NC_021162.1	Ca_Kabuli_Chr03	12993915	AA	GG	GG	INTERGENIC			
SNP_14236_A_12994188	NC_021162.1	Ca_Kabuli_Chr03	12994188	TT	CC	CC	INTERGENIC			
SNP_14237_A_12994253	NC_021162.1	Ca_Kabuli_Chr03	12994253	TT	CC	CC	INTERGENIC			
SNP_14238_A_12994269	NC_021162.1	Ca_Kabuli_Chr03	12994269	AA	CC	CC	INTERGENIC			
SNP_14239_A_12994305	NC_021162.1	Ca_Kabuli_Chr03	12994305	TT	CC	CC	INTERGENIC			
SNP_14240_A_12994318	NC_021162.1	Ca_Kabuli_Chr03	12994318	AA	GG	GG	INTERGENIC			
SNP_14241_A_12994324	NC_021162.1	Ca_Kabuli_Chr03	12994324	TT	GG	GG	INTERGENIC			
SNP_14242_A_13020823	NC_021162.1	Ca_Kabuli_Chr03	13020823	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14244_A_13036372	NC_021162.1	Ca_Kabuli_Chr03	13036372	AA	CC	CC	INTERGENIC			
SNP_14245_A_13040449	NC_021162.1	Ca_Kabuli_Chr03	13040449	CC	TT	TT	INTERGENIC			
SNP_14246_A_13040983	NC_021162.1	Ca_Kabuli_Chr03	13040983	TT	CC	CC	INTERGENIC			
SNP_14247_A_13041005	NC_021162.1	Ca_Kabuli_Chr03	13041005	GG	AA	AA	INTERGENIC			
SNP_14248_A_13041039	NC_021162.1	Ca_Kabuli_Chr03	13041039	AA	GG	GG	INTERGENIC			
SNP_14249_A_13041042	NC_021162.1	Ca_Kabuli_Chr03	13041042	TT	CC	CC	INTERGENIC			
SNP_14250_A_13041075	NC_021162.1	Ca_Kabuli_Chr03	13041075	CC	AA	AA	INTERGENIC			
SNP_14251_A_13041122	NC_021162.1	Ca_Kabuli_Chr03	13041122	GG	AA	AA	INTERGENIC			
SNP_14252_A_13041422	NC_021162.1	Ca_Kabuli_Chr03	13041422	CC	TT	TT	INTERGENIC			
SNP_14253_A_13041468	NC_021162.1	Ca_Kabuli_Chr03	13041468	CC	TT	TT	INTERGENIC			
SNP_14254_A_13041533	NC_021162.1	Ca_Kabuli_Chr03	13041533	AA	GG	GG	INTERGENIC			
SNP_14255_A_13041578	NC_021162.1	Ca_Kabuli_Chr03	13041578	AA	GG	GG	INTERGENIC			
SNP_14256_A_13041598	NC_021162.1	Ca_Kabuli_Chr03	13041598	AA	GG	GG	INTERGENIC			
SNP_14257_A_13042121	NC_021162.1	Ca_Kabuli_Chr03	13042121	AA	TT	TT	INTERGENIC			
SNP_14258_A_13042123	NC_021162.1	Ca_Kabuli_Chr03	13042123	GG	AA	AA	INTERGENIC			
SNP_14259_A_13050707	NC_021162.1	Ca_Kabuli_Chr03	13050707	TT	CC	CC	INTERGENIC			
SNP_14260_A_13050719	NC_021162.1	Ca_Kabuli_Chr03	13050719	AA	GG	GG	INTERGENIC			
SNP_14261_A_13068635	NC_021162.1	Ca_Kabuli_Chr03	13068635	AA	GG	GG	INTERGENIC			
SNP_14262_A_13079593	NC_021162.1	Ca_Kabuli_Chr03	13079593	AA	GG	GG	INTERGENIC			
SNP_14263_A_13096562	NC_021162.1	Ca_Kabuli_Chr03	13096562	TT	CC	CC	INTERGENIC			
SNP_14264_A_13096566	NC_021162.1	Ca_Kabuli_Chr03	13096566	AA	CC	CC	INTERGENIC			
SNP_14265_A_13096590	NC_021162.1	Ca_Kabuli_Chr03	13096590	AA	CC	CC	INTERGENIC			

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SNP_14266_A_13096629	NC_021162.1	Ca_Kabuli_Chr03	13096629	TT	GG	GG	INTERGENIC			
SNP_14267_A_13096654	NC_021162.1	Ca_Kabuli_Chr03	13096654	TT	CC	CC	INTERGENIC			
SNP_14268_A_13096771	NC_021162.1	Ca_Kabuli_Chr03	13096771	AA	GG	GG	INTERGENIC			
SNP_14269_A_13096799	NC_021162.1	Ca_Kabuli_Chr03	13096799	TT	GG	GG	INTERGENIC			
SNP_14270_A_13096813	NC_021162.1	Ca_Kabuli_Chr03	13096813	GG	AA	AA	INTERGENIC			
SNP_14271_A_13096814	NC_021162.1	Ca_Kabuli_Chr03	13096814	GG	TT	TT	INTERGENIC			
SNP_14272_A_13096869	NC_021162.1	Ca_Kabuli_Chr03	13096869	TT	CC	CC	INTERGENIC			
SNP_14274_A_13097110	NC_021162.1	Ca_Kabuli_Chr03	13097110	CC	TT	TT	INTERGENIC			
SNP_14275_A_13097189	NC_021162.1	Ca_Kabuli_Chr03	13097189	AA	GG	GG	INTERGENIC			
SNP_14276_A_13146137	NC_021162.1	Ca_Kabuli_Chr03	13146137	GG	CC	CC	INTERGENIC			
SNP_14277_A_13180035	NC_021162.1	Ca_Kabuli_Chr03	13180035	CC	TT	TT	INTERGENIC			
SNP_14278_A_13180039	NC_021162.1	Ca_Kabuli_Chr03	13180039	TT	GG	GG	INTERGENIC			
SNP_14279_A_13180052	NC_021162.1	Ca_Kabuli_Chr03	13180052	TT	CC	CC	INTERGENIC			
SNP_14280_A_13185138	NC_021162.1	Ca_Kabuli_Chr03	13185138	GG	TT	TT	INTERGENIC			
SNP_14281_A_13185163	NC_021162.1	Ca_Kabuli_Chr03	13185163	GG	CC	CC	INTERGENIC			
SNP_14282_A_13185164	NC_021162.1	Ca_Kabuli_Chr03	13185164	AA	CC	CC	INTERGENIC			
SNP_14283_A_13185210	NC_021162.1	Ca_Kabuli_Chr03	13185210	GG	AA	AA	INTERGENIC			
SNP_14284_A_13185297	NC_021162.1	Ca_Kabuli_Chr03	13185297	CC	AA	AA	INTERGENIC			
SNP_14285_A_13185329	NC_021162.1	Ca_Kabuli_Chr03	13185329	GG	AA	AA	INTERGENIC			
SNP_14286_A_13185350	NC_021162.1	Ca_Kabuli_Chr03	13185350	GG	AA	AA	INTERGENIC			
SNP_14287_A_13185385	NC_021162.1	Ca_Kabuli_Chr03	13185385	GG	TT	TT	INTERGENIC			
SNP_14288_A_13185408	NC_021162.1	Ca_Kabuli_Chr03	13185408	CC	TT	TT	INTERGENIC			

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SNP_14289_A_13185472	NC_021162.1	Ca_Kabuli_Chr03	13185472	AA	CC	CC	INTERGENIC		
SNP_14290_A_13185558	NC_021162.1	Ca_Kabuli_Chr03	13185558	GG	CC	CC	INTERGENIC		
SNP_14291_A_13185559	NC_021162.1	Ca_Kabuli_Chr03	13185559	GG	AA	AA	INTERGENIC		
SNP_14292_A_13185579	NC_021162.1	Ca_Kabuli_Chr03	13185579	TT	CC	CC	INTERGENIC		
SNP_14293_A_13185767	NC_021162.1	Ca_Kabuli_Chr03	13185767	CC	GG	GG	INTERGENIC		
SNP_14295_A_13238621	NC_021162.1	Ca_Kabuli_Chr03	13238621	AA	CC	CC	INTERGENIC		
SNP_14296_A_13243753	NC_021162.1	Ca_Kabuli_Chr03	13243753	GG	AA	AA	URR	101513236	Unknown function
SNP_14297_A_13243754	NC_021162.1	Ca_Kabuli_Chr03	13243754	GG	CC	CC	URR	101513236	Unknown function
SNP_14298_A_13247963	NC_021162.1	Ca_Kabuli_Chr03	13247963	CC	TT	TT	INTERGENIC		
SNP_14299_A_13285211	NC_021162.1	Ca_Kabuli_Chr03	13285211	AA	GG	GG	INTRON	101513874	heat shock 70 kDa protein 18-like
SNP_14301_A_13285217	NC_021162.1	Ca_Kabuli_Chr03	13285217	AA	GG	GG	INTRON	101513874	heat shock 70 kDa protein 18-like
SNP_14303_A_13319737	NC_021162.1	Ca_Kabuli_Chr03	13319737	GG	AA	AA	INTERGENIC		
SNP_14304_A_13363334	NC_021162.1	Ca_Kabuli_Chr03	13363334	AA	GG	GG	SYNONYMOUS_CODING	id45492	Unknown function
SNP_14305_A_13364307	NC_021162.1	Ca_Kabuli_Chr03	13364307	GG	AA	AA	INTRON	id45492	Unknown function
SNP_14306_A_13364387	NC_021162.1	Ca_Kabuli_Chr03	13364387	GG	AA	AA	INTRON	id45492	Unknown function
SNP_14307_A_13364426	NC_021162.1	Ca_Kabuli_Chr03	13364426	GG	AA	AA	URR	101509695	uncharacterized LOC101509695
SNP_14308_A_13364428	NC_021162.1	Ca_Kabuli_Chr03	13364428	AA	GG	GG	URR	101509695	uncharacterized LOC101509695
SNP_14309_A_13364493	NC_021162.1	Ca_Kabuli_Chr03	13364493	CC	TT	TT	URR	101509695	uncharacterized LOC101509695
SNP_14310_A_13364515	NC_021162.1	Ca_Kabuli_Chr03	13364515	AA	CC	CC	URR	101509695	uncharacterized LOC101509695
SNP_14311_A_13364596	NC_021162.1	Ca_Kabuli_Chr03	13364596	CC	AA	AA	URR	101509695	uncharacterized LOC101509695
SNP_14312_A_13364823	NC_021162.1	Ca_Kabuli_Chr03	13364823	GG	CC	CC	URR	101509695	uncharacterized LOC101509695
SNP_14313_A_13450423	NC_021162.1	Ca_Kabuli_Chr03	13450423	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14314_A_13450435	NC_021162.1	Ca_Kabuli_Chr03	13450435	GG	AA	AA	INTERGENIC			
SNP_14315_A_13450999	NC_021162.1	Ca_Kabuli_Chr03	13450999	AA	CC	CC	INTERGENIC			
SNP_14316_A_13451009	NC_021162.1	Ca_Kabuli_Chr03	13451009	GG	TT	TT	INTERGENIC			
SNP_14317_A_13451073	NC_021162.1	Ca_Kabuli_Chr03	13451073	AA	TT	TT	INTERGENIC			
SNP_14318_A_13451074	NC_021162.1	Ca_Kabuli_Chr03	13451074	AA	CC	CC	INTERGENIC			
SNP_14319_A_13451076	NC_021162.1	Ca_Kabuli_Chr03	13451076	AA	GG	GG	INTERGENIC			
SNP_14320_A_13451077	NC_021162.1	Ca_Kabuli_Chr03	13451077	TT	CC	CC	INTERGENIC			
SNP_14321_A_13451093	NC_021162.1	Ca_Kabuli_Chr03	13451093	TT	CC	CC	INTERGENIC			
SNP_14322_A_13451106	NC_021162.1	Ca_Kabuli_Chr03	13451106	AA	TT	TT	INTERGENIC			
SNP_14323_A_13479523	NC_021162.1	Ca_Kabuli_Chr03	13479523	CC	TT	TT	INTERGENIC			
SNP_14324_A_13480016	NC_021162.1	Ca_Kabuli_Chr03	13480016	TT	CC	CC	INTERGENIC			
SNP_14325_A_13487957	NC_021162.1	Ca_Kabuli_Chr03	13487957	AA	GG	GG	INTERGENIC			
SNP_14326_A_13488023	NC_021162.1	Ca_Kabuli_Chr03	13488023	GG	AA	AA	INTERGENIC			
SNP_14327_A_13488375	NC_021162.1	Ca_Kabuli_Chr03	13488375	AA	GG	GG	INTERGENIC			
SNP_14328_A_13488414	NC_021162.1	Ca_Kabuli_Chr03	13488414	AA	GG	GG	INTERGENIC			
SNP_14329_A_13488476	NC_021162.1	Ca_Kabuli_Chr03	13488476	TT	CC	CC	INTERGENIC			
SNP_14330_A_13488517	NC_021162.1	Ca_Kabuli_Chr03	13488517	AA	TT	TT	INTERGENIC			
SNP_14331_A_13488518	NC_021162.1	Ca_Kabuli_Chr03	13488518	TT	AA	AA	INTERGENIC			
SNP_14333_A_13554624	NC_021162.1	Ca_Kabuli_Chr03	13554624	TT	CC	CC	INTERGENIC			
SNP_14334_A_13556723	NC_021162.1	Ca_Kabuli_Chr03	13556723	TT	AA	AA	INTERGENIC			
SNP_14335_A_13556906	NC_021162.1	Ca_Kabuli_Chr03	13556906	TT	CC	CC	INTERGENIC			
SNP_14336_A_13591721	NC_021162.1	Ca_Kabuli_Chr03	13591721	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14337_A_13597050	NC_021162.1	Ca_Kabuli_Chr03	13597050	AA	GG	GG	INTERGENIC			
SNP_14339_A_13787486	NC_021162.1	Ca_Kabuli_Chr03	13787486	GG	AA	AA	INTERGENIC			
SNP_14340_A_13788757	NC_021162.1	Ca_Kabuli_Chr03	13788757	GG	AA	AA	INTERGENIC			
SNP_14343_A_13830425	NC_021162.1	Ca_Kabuli_Chr03	13830425	CC	GG	GG	INTERGENIC			
SNP_14345_A_13849981	NC_021162.1	Ca_Kabuli_Chr03	13849981	AA	GG	GG	INTERGENIC			
SNP_14346_A_13852265	NC_021162.1	Ca_Kabuli_Chr03	13852265	GG	AA	AA	INTERGENIC			
SNP_14347_A_13868409	NC_021162.1	Ca_Kabuli_Chr03	13868409	GG	AA	AA	INTERGENIC			
SNP_14348_A_13868412	NC_021162.1	Ca_Kabuli_Chr03	13868412	CC	TT	TT	INTERGENIC			
SNP_14349_A_13868478	NC_021162.1	Ca_Kabuli_Chr03	13868478	AA	GG	GG	INTERGENIC			
SNP_14350_A_13868536	NC_021162.1	Ca_Kabuli_Chr03	13868536	AA	GG	GG	INTERGENIC			
SNP_14351_A_13868720	NC_021162.1	Ca_Kabuli_Chr03	13868720	GG	AA	AA	INTERGENIC			
SNP_14352_A_13868750	NC_021162.1	Ca_Kabuli_Chr03	13868750	AA	GG	GG	INTERGENIC			
SNP_14353_A_13868801	NC_021162.1	Ca_Kabuli_Chr03	13868801	AA	CC	CC	INTERGENIC			
SNP_14354_A_13868803	NC_021162.1	Ca_Kabuli_Chr03	13868803	TT	GG	GG	INTERGENIC			
SNP_14355_A_13868811	NC_021162.1	Ca_Kabuli_Chr03	13868811	TT	CC	CC	INTERGENIC			
SNP_14356_A_13868818	NC_021162.1	Ca_Kabuli_Chr03	13868818	TT	GG	GG	INTERGENIC			
SNP_14357_A_13868880	NC_021162.1	Ca_Kabuli_Chr03	13868880	TT	CC	CC	INTERGENIC			
SNP_14358_A_13868851	NC_021162.1	Ca_Kabuli_Chr03	13868851	AA	GG	GG	INTERGENIC			
SNP_14359_A_13917997	NC_021162.1	Ca_Kabuli_Chr03	13917997	GG	TT	TT	INTERGENIC			
SNP_14360_A_13935059	NC_021162.1	Ca_Kabuli_Chr03	13935059	AA	TT	TT	INTERGENIC			
SNP_14361_A_13935464	NC_021162.1	Ca_Kabuli_Chr03	13935464	TT	CC	CC	INTERGENIC			
SNP_14362_A_13935971	NC_021162.1	Ca_Kabuli_Chr03	13935971	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14363_A_13935983	NC_021162.1	Ca_Kabuli_Chr03	13935983	CC	TT	TT	INTERGENIC		
SNP_14364_A_13950687	NC_021162.1	Ca_Kabuli_Chr03	13950687	TT	GG	GG	INTERGENIC		
SNP_14365_A_13950688	NC_021162.1	Ca_Kabuli_Chr03	13950688	GG	TT	TT	INTERGENIC		
SNP_14366_A_13955807	NC_021162.1	Ca_Kabuli_Chr03	13955807	TT	CC	CC	INTERGENIC		
SNP_14367_A_13957669	NC_021162.1	Ca_Kabuli_Chr03	13957669	AA	CC	CC	INTERGENIC		
SNP_14368_A_14015483	NC_021162.1	Ca_Kabuli_Chr03	14015483	CC	TT	TT	INTERGENIC		
SNP_14369_A_14163687	NC_021162.1	Ca_Kabuli_Chr03	14163687	AA	CC	CC	INTRON	101497585	protein TAPETUM DETERMINANT 1-like
SNP_14370_A_14181088	NC_021162.1	Ca_Kabuli_Chr03	14181088	AA	GG	GG	URR	101494656	uncharacterized LOC101494656
SNP_14371_A_14227205	NC_021162.1	Ca_Kabuli_Chr03	14227205	CC	AA	AA	DRR	101495627	Unknown function
SNP_14372_A_14227841	NC_021162.1	Ca_Kabuli_Chr03	14227841	GG	AA	AA	DRR	101498572	Unknown function
SNP_14373_A_14227848	NC_021162.1	Ca_Kabuli_Chr03	14227848	AA	GG	GG	DRR	101498572	Unknown function
SNP_14374_A_14227854	NC_021162.1	Ca_Kabuli_Chr03	14227854	AA	CC	CC	DRR	101498572	Unknown function
SNP_14375_A_14242806	NC_021162.1	Ca_Kabuli_Chr03	14242806	CC	TT	TT	INTERGENIC		
SNP_14376_A_14243770	NC_021162.1	Ca_Kabuli_Chr03	14243770	CC	TT	TT	INTERGENIC		
SNP_14377_A_14243772	NC_021162.1	Ca_Kabuli_Chr03	14243772	AA	GG	GG	INTERGENIC		
SNP_14378_A_14245519	NC_021162.1	Ca_Kabuli_Chr03	14245519	AA	CC	CC	INTERGENIC		
SNP_14379_A_14245528	NC_021162.1	Ca_Kabuli_Chr03	14245528	TT	AA	AA	INTERGENIC		
SNP_14380_A_14245585	NC_021162.1	Ca_Kabuli_Chr03	14245585	AA	GG	GG	INTERGENIC		
SNP_14382_A_14245801	NC_021162.1	Ca_Kabuli_Chr03	14245801	AA	GG	GG	INTERGENIC		
SNP_14383_A_14245810	NC_021162.1	Ca_Kabuli_Chr03	14245810	CC	TT	TT	INTERGENIC		
SNP_14384_A_14245813	NC_021162.1	Ca_Kabuli_Chr03	14245813	TT	AA	AA	INTERGENIC		
SNP_14385_A_14247092	NC_021162.1	Ca_Kabuli_Chr03	14247092	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14386_A_14247194	NC_021162.1	Ca_Kabuli_Chr03	14247194	AA	GG	GG	INTERGENIC			
SNP_14387_A_14247231	NC_021162.1	Ca_Kabuli_Chr03	14247231	TT	CC	CC	INTERGENIC			
SNP_14388_A_14247491	NC_021162.1	Ca_Kabuli_Chr03	14247491	GG	AA	AA	INTERGENIC			
SNP_14389_A_14247724	NC_021162.1	Ca_Kabuli_Chr03	14247724	CC	TT	TT	INTERGENIC			
SNP_14390_A_14247789	NC_021162.1	Ca_Kabuli_Chr03	14247789	GG	TT	TT	INTERGENIC			
SNP_14391_A_14247834	NC_021162.1	Ca_Kabuli_Chr03	14247834	AA	TT	TT	INTERGENIC			
SNP_14392_A_14247853	NC_021162.1	Ca_Kabuli_Chr03	14247853	GG	AA	AA	INTERGENIC			
SNP_14393_A_14247953	NC_021162.1	Ca_Kabuli_Chr03	14247953	CC	TT	TT	INTERGENIC			
SNP_14394_A_14248011	NC_021162.1	Ca_Kabuli_Chr03	14248011	GG	TT	TT	INTERGENIC			
SNP_14395_A_14248014	NC_021162.1	Ca_Kabuli_Chr03	14248014	AA	CC	CC	INTERGENIC			
SNP_14396_A_14248095	NC_021162.1	Ca_Kabuli_Chr03	14248095	TT	GG	GG	INTERGENIC			
SNP_14397_A_14248098	NC_021162.1	Ca_Kabuli_Chr03	14248098	TT	AA	AA	INTERGENIC			
SNP_14398_A_14248157	NC_021162.1	Ca_Kabuli_Chr03	14248157	AA	GG	GG	INTERGENIC			
SNP_14399_A_14248309	NC_021162.1	Ca_Kabuli_Chr03	14248309	TT	CC	CC	INTERGENIC			
SNP_14400_A_14248339	NC_021162.1	Ca_Kabuli_Chr03	14248339	TT	CC	CC	INTERGENIC			
SNP_14401_A_14248404	NC_021162.1	Ca_Kabuli_Chr03	14248404	TT	AA	AA	INTERGENIC			
SNP_14402_A_14248410	NC_021162.1	Ca_Kabuli_Chr03	14248410	TT	CC	CC	INTERGENIC			
SNP_14403_A_14248576	NC_021162.1	Ca_Kabuli_Chr03	14248576	TT	CC	CC	INTERGENIC			
SNP_14404_A_14248799	NC_021162.1	Ca_Kabuli_Chr03	14248799	GG	AA	AA	INTERGENIC			
SNP_14405_A_14248827	NC_021162.1	Ca_Kabuli_Chr03	14248827	AA	GG	GG	INTERGENIC			
SNP_14406_A_14248933	NC_021162.1	Ca_Kabuli_Chr03	14248933	GG	AA	AA	INTERGENIC			
SNP_14407_A_14249125	NC_021162.1	Ca_Kabuli_Chr03	14249125	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14408_A_14249133	NC_021162.1	Ca_Kabuli_Chr03	14249133	AA	GG	GG	INTERGENIC		
SNP_14409_A_14249147	NC_021162.1	Ca_Kabuli_Chr03	14249147	AA	GG	GG	INTERGENIC		
SNP_14410_A_14249148	NC_021162.1	Ca_Kabuli_Chr03	14249148	AA	TT	TT	INTERGENIC		
SNP_14411_A_14249156	NC_021162.1	Ca_Kabuli_Chr03	14249156	CC	TT	TT	INTERGENIC		
SNP_14412_A_14249242	NC_021162.1	Ca_Kabuli_Chr03	14249242	TT	AA	AA	INTERGENIC		
SNP_14413_A_14249248	NC_021162.1	Ca_Kabuli_Chr03	14249248	AA	GG	GG	INTERGENIC		
SNP_14414_A_14249439	NC_021162.1	Ca_Kabuli_Chr03	14249439	CC	TT	TT	INTERGENIC		
SNP_14415_A_14249493	NC_021162.1	Ca_Kabuli_Chr03	14249493	AA	GG	GG	INTERGENIC		
SNP_14416_A_14249508	NC_021162.1	Ca_Kabuli_Chr03	14249508	GG	CC	CC	INTERGENIC		
SNP_14417_A_14430962	NC_021162.1	Ca_Kabuli_Chr03	14430962	CC	TT	TT	NON_SYNONYMOUS_CODING	101504131	uncharacterized LOC101504131
SNP_14418_A_14430984	NC_021162.1	Ca_Kabuli_Chr03	14430984	GG	TT	TT	NON_SYNONYMOUS_CODING	101504131	uncharacterized LOC101504131
SNP_14419_A_14430995	NC_021162.1	Ca_Kabuli_Chr03	14430995	GG	TT	TT	NON_SYNONYMOUS_CODING	101504131	uncharacterized LOC101504131
SNP_14420_A_14488182	NC_021162.1	Ca_Kabuli_Chr03	14488182	AA	CC	CC	INTERGENIC		
SNP_14421_A_14488184	NC_021162.1	Ca_Kabuli_Chr03	14488184	TT	CC	CC	INTERGENIC		
SNP_14422_A_14488192	NC_021162.1	Ca_Kabuli_Chr03	14488192	TT	CC	CC	INTERGENIC		
SNP_14423_A_14495027	NC_021162.1	Ca_Kabuli_Chr03	14495027	TT	CC	CC	INTERGENIC		
SNP_14424_A_14495029	NC_021162.1	Ca_Kabuli_Chr03	14495029	TT	GG	GG	INTERGENIC		
SNP_14425_A_14495131	NC_021162.1	Ca_Kabuli_Chr03	14495131	AA	GG	GG	INTERGENIC		
SNP_14426_A_14495154	NC_021162.1	Ca_Kabuli_Chr03	14495154	CC	TT	TT	INTERGENIC		
SNP_14427_A_14495170	NC_021162.1	Ca_Kabuli_Chr03	14495170	AA	CC	CC	INTERGENIC		
SNP_14428_A_14495185	NC_021162.1	Ca_Kabuli_Chr03	14495185	TT	CC	CC	INTERGENIC		
SNP_14429_A_14495205	NC_021162.1	Ca_Kabuli_Chr03	14495205	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14430_A_14495264	NC_021162.1	Ca_Kabuli_Chr03	14495264	TT	CC	CC	INTERGENIC		
SNP_14431_A_14495412	NC_021162.1	Ca_Kabuli_Chr03	14495412	CC	AA	AA	INTERGENIC		
SNP_14432_A_14495459	NC_021162.1	Ca_Kabuli_Chr03	14495459	TT	CC	CC	INTERGENIC		
SNP_14433_A_14495501	NC_021162.1	Ca_Kabuli_Chr03	14495501	TT	CC	CC	INTERGENIC		
SNP_14434_A_14503487	NC_021162.1	Ca_Kabuli_Chr03	14503487	AA	GG	GG	INTERGENIC		
SNP_14435_A_14543486	NC_021162.1	Ca_Kabuli_Chr03	14543486	AA	CC	CC	INTERGENIC		
SNP_14436_A_14543487	NC_021162.1	Ca_Kabuli_Chr03	14543487	TT	GG	GG	INTERGENIC		
SNP_14437_A_14575029	NC_021162.1	Ca_Kabuli_Chr03	14575029	TT	CC	CC	INTERGENIC		
SNP_14438_A_14575390	NC_021162.1	Ca_Kabuli_Chr03	14575390	AA	GG	GG	INTERGENIC		
SNP_14439_A_14575419	NC_021162.1	Ca_Kabuli_Chr03	14575419	AA	GG	GG	INTERGENIC		
SNP_14440_A_14577295	NC_021162.1	Ca_Kabuli_Chr03	14577295	TT	CC	CC	INTERGENIC		
SNP_14442_A_14653365	NC_021162.1	Ca_Kabuli_Chr03	14653365	AA	GG	GG	INTRON	101500404	E3 ubiquitin-protein ligase BRE1-like 1
SNP_14443_A_14679933	NC_021162.1	Ca_Kabuli_Chr03	14679933	GG	TT	TT	INTERGENIC		
SNP_14444_A_14696998	NC_021162.1	Ca_Kabuli_Chr03	14696998	AA	GG	GG	DRR	101500921	uncharacterized LOC101500921
SNP_14445_A_14703843	NC_021162.1	Ca_Kabuli_Chr03	14703843	TT	CC	CC	INTERGENIC		
SNP_14446_A_14706603	NC_021162.1	Ca_Kabuli_Chr03	14706603	AA	CC	CC	INTERGENIC		
SNP_14447_A_14780176	NC_021162.1	Ca_Kabuli_Chr03	14780176	CC	TT	TT	INTERGENIC		
SNP_14448_A_14780247	NC_021162.1	Ca_Kabuli_Chr03	14780247	AA	GG	GG	INTERGENIC		
SNP_14449_A_14780282	NC_021162.1	Ca_Kabuli_Chr03	14780282	AA	GG	GG	INTERGENIC		
SNP_14450_A_14790349	NC_021162.1	Ca_Kabuli_Chr03	14790349	CC	AA	AA	INTERGENIC		
SNP_14451_A_14795717	NC_021162.1	Ca_Kabuli_Chr03	14795717	GG	AA	AA	INTERGENIC		
SNP_14452_A_14795996	NC_021162.1	Ca_Kabuli_Chr03	14795996	AA	TT	TT	INTERGENIC		

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SNP_14453_A_14796042	NC_021162.1	Ca_Kabuli_Chr03	14796042	GG	TT	TT	INTERGENIC		
SNP_14454_A_14797148	NC_021162.1	Ca_Kabuli_Chr03	14797148	AA	GG	GG	INTERGENIC		
SNP_14456_A_14801632	NC_021162.1	Ca_Kabuli_Chr03	14801632	TT	CC	CC	INTERGENIC		
SNP_14457_A_14805350	NC_021162.1	Ca_Kabuli_Chr03	14805350	CC	TT	TT	INTERGENIC		
SNP_14458_A_14814676	NC_021162.1	Ca_Kabuli_Chr03	14814676	CC	TT	TT	URR	101502098	hydroquinone glucosyltransferase
SNP_14459_A_14815740	NC_021162.1	Ca_Kabuli_Chr03	14815740	TT	CC	CC	URR	101502098	hydroquinone glucosyltransferase
SNP_14460_A_14815947	NC_021162.1	Ca_Kabuli_Chr03	14815947	GG	AA	AA	URR	101502098	hydroquinone glucosyltransferase
SNP_14461_A_14816120	NC_021162.1	Ca_Kabuli_Chr03	14816120	AA	TT	TT	URR	101502098	hydroquinone glucosyltransferase
SNP_14462_A_14816180	NC_021162.1	Ca_Kabuli_Chr03	14816180	TT	CC	CC	URR	101502098	hydroquinone glucosyltransferase
SNP_14463_A_14816185	NC_021162.1	Ca_Kabuli_Chr03	14816185	AA	GG	GG	URR	101502098	hydroquinone glucosyltransferase
SNP_14464_A_14816216	NC_021162.1	Ca_Kabuli_Chr03	14816216	GG	AA	AA	URR	101502098	hydroquinone glucosyltransferase
SNP_14465_A_14820102	NC_021162.1	Ca_Kabuli_Chr03	14820102	GG	TT	TT	INTERGENIC		
SNP_14466_A_14820116	NC_021162.1	Ca_Kabuli_Chr03	14820116	TT	CC	CC	INTERGENIC		
SNP_14467_A_14835338	NC_021162.1	Ca_Kabuli_Chr03	14835338	AA	CC	CC	INTERGENIC		
SNP_14468_A_14835685	NC_021162.1	Ca_Kabuli_Chr03	14835685	TT	AA	AA	INTERGENIC		
SNP_14469_A_14836903	NC_021162.1	Ca_Kabuli_Chr03	14836903	CC	GG	GG	INTERGENIC		
SNP_14471_A_14843257	NC_021162.1	Ca_Kabuli_Chr03	14843257	AA	GG	GG	INTERGENIC		
SNP_14472_A_14845795	NC_021162.1	Ca_Kabuli_Chr03	14845795	TT	AA	AA	INTERGENIC		
SNP_14473_A_14848635	NC_021162.1	Ca_Kabuli_Chr03	14848635	CC	TT	TT	INTERGENIC		
SNP_14474_A_14848666	NC_021162.1	Ca_Kabuli_Chr03	14848666	CC	GG	GG	INTERGENIC		
SNP_14475_A_14848673	NC_021162.1	Ca_Kabuli_Chr03	14848673	GG	TT	TT	INTERGENIC		
SNP_14476_A_14848682	NC_021162.1	Ca_Kabuli_Chr03	14848682	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14477_A_14853611	NC_021162.1	Ca_Kabuli_Chr03	14853611	AA	TT	TT	INTERGENIC			
SNP_14478_A_14853947	NC_021162.1	Ca_Kabuli_Chr03	14853947	TT	GG	GG	INTERGENIC			
SNP_14479_A_14854067	NC_021162.1	Ca_Kabuli_Chr03	14854067	AA	GG	GG	INTERGENIC			
SNP_14480_A_14854204	NC_021162.1	Ca_Kabuli_Chr03	14854204	CC	GG	GG	INTERGENIC			
SNP_14481_A_14858487	NC_021162.1	Ca_Kabuli_Chr03	14858487	AA	TT	TT	INTERGENIC			
SNP_14482_A_14858491	NC_021162.1	Ca_Kabuli_Chr03	14858491	TT	GG	GG	INTERGENIC			
SNP_14483_A_14858495	NC_021162.1	Ca_Kabuli_Chr03	14858495	AA	GG	GG	INTERGENIC			
SNP_14484_A_14858499	NC_021162.1	Ca_Kabuli_Chr03	14858499	AA	GG	GG	INTERGENIC			
SNP_14485_A_14859923	NC_021162.1	Ca_Kabuli_Chr03	14859923	AA	GG	GG	INTERGENIC			
SNP_14486_A_14860007	NC_021162.1	Ca_Kabuli_Chr03	14860007	CC	TT	TT	INTERGENIC			
SNP_14487_A_14862985	NC_021162.1	Ca_Kabuli_Chr03	14862985	GG	TT	TT	INTERGENIC			
SNP_14488_A_14862988	NC_021162.1	Ca_Kabuli_Chr03	14862988	AA	TT	TT	INTERGENIC			
SNP_14489_A_14867226	NC_021162.1	Ca_Kabuli_Chr03	14867226	AA	CC	CC	INTERGENIC			
SNP_14490_A_14867508	NC_021162.1	Ca_Kabuli_Chr03	14867508	TT	GG	GG	INTERGENIC			
SNP_14491_A_14867608	NC_021162.1	Ca_Kabuli_Chr03	14867608	CC	GG	GG	INTERGENIC			
SNP_14492_A_14867621	NC_021162.1	Ca_Kabuli_Chr03	14867621	AA	GG	GG	INTERGENIC			
SNP_14493_A_14867716	NC_021162.1	Ca_Kabuli_Chr03	14867716	GG	AA	AA	INTERGENIC			
SNP_14494_A_14867718	NC_021162.1	Ca_Kabuli_Chr03	14867718	AA	GG	GG	INTERGENIC			
SNP_14495_A_14867748	NC_021162.1	Ca_Kabuli_Chr03	14867748	TT	GG	GG	INTERGENIC			
SNP_14496_A_14867789	NC_021162.1	Ca_Kabuli_Chr03	14867789	AA	GG	GG	INTERGENIC			
SNP_14497_A_14868671	NC_021162.1	Ca_Kabuli_Chr03	14868671	TT	CC	CC	INTERGENIC			
SNP_14498_A_14868767	NC_021162.1	Ca_Kabuli_Chr03	14868767	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14499_A_14868840	NC_021162.1	Ca_Kabuli_Chr03	14868840	AA	GG	GG	INTERGENIC			
SNP_14500_A_14868871	NC_021162.1	Ca_Kabuli_Chr03	14868871	AA	GG	GG	INTERGENIC			
SNP_14501_A_14868975	NC_021162.1	Ca_Kabuli_Chr03	14868975	AA	TT	TT	INTERGENIC			
SNP_14502_A_14868980	NC_021162.1	Ca_Kabuli_Chr03	14868980	TT	CC	CC	INTERGENIC			
SNP_14504_A_14878396	NC_021162.1	Ca_Kabuli_Chr03	14878396	AA	TT	TT	INTERGENIC			
SNP_14505_A_14878402	NC_021162.1	Ca_Kabuli_Chr03	14878402	GG	AA	AA	INTERGENIC			
SNP_14506_A_14878598	NC_021162.1	Ca_Kabuli_Chr03	14878598	CC	TT	TT	INTERGENIC			
SNP_14507_A_14879312	NC_021162.1	Ca_Kabuli_Chr03	14879312	AA	TT	TT	INTERGENIC			
SNP_14508_A_14879389	NC_021162.1	Ca_Kabuli_Chr03	14879389	CC	AA	AA	INTERGENIC			
SNP_14509_A_14879992	NC_021162.1	Ca_Kabuli_Chr03	14879992	CC	TT	TT	INTERGENIC			
SNP_14510_A_14879993	NC_021162.1	Ca_Kabuli_Chr03	14879993	CC	AA	AA	INTERGENIC			
SNP_14512_A_14880876	NC_021162.1	Ca_Kabuli_Chr03	14880876	TT	GG	GG	INTERGENIC			
SNP_14513_A_14880889	NC_021162.1	Ca_Kabuli_Chr03	14880889	CC	GG	GG	INTERGENIC			
SNP_14514_A_14880891	NC_021162.1	Ca_Kabuli_Chr03	14880891	GG	AA	AA	INTERGENIC			
SNP_14515_A_14880943	NC_021162.1	Ca_Kabuli_Chr03	14880943	TT	CC	CC	INTERGENIC			
SNP_14516_A_14880955	NC_021162.1	Ca_Kabuli_Chr03	14880955	CC	AA	AA	INTERGENIC			
SNP_14517_A_14880978	NC_021162.1	Ca_Kabuli_Chr03	14880978	AA	GG	GG	INTERGENIC			
SNP_14518_A_14881069	NC_021162.1	Ca_Kabuli_Chr03	14881069	GG	AA	AA	INTERGENIC			
SNP_14519_A_14881143	NC_021162.1	Ca_Kabuli_Chr03	14881143	GG	AA	AA	INTERGENIC			
SNP_14520_A_14881183	NC_021162.1	Ca_Kabuli_Chr03	14881183	AA	TT	TT	INTERGENIC			
SNP_14521_A_14881189	NC_021162.1	Ca_Kabuli_Chr03	14881189	TT	CC	CC	INTERGENIC			
SNP_14522_A_14881311	NC_021162.1	Ca_Kabuli_Chr03	14881311	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14523_A_14881381	NC_021162.1	Ca_Kabuli_Chr03	14881381	GG	AA	AA	INTERGENIC			
SNP_14524_A_14881397	NC_021162.1	Ca_Kabuli_Chr03	14881397	TT	GG	GG	INTERGENIC			
SNP_14525_A_14881406	NC_021162.1	Ca_Kabuli_Chr03	14881406	TT	AA	AA	INTERGENIC			
SNP_14526_A_14881412	NC_021162.1	Ca_Kabuli_Chr03	14881412	AA	GG	GG	INTERGENIC			
SNP_14527_A_14881434	NC_021162.1	Ca_Kabuli_Chr03	14881434	CC	TT	TT	INTERGENIC			
SNP_14528_A_14881483	NC_021162.1	Ca_Kabuli_Chr03	14881483	GG	TT	TT	INTERGENIC			
SNP_14529_A_14889048	NC_021162.1	Ca_Kabuli_Chr03	14889048	AA	TT	TT	INTERGENIC			
SNP_14530_A_14889195	NC_021162.1	Ca_Kabuli_Chr03	14889195	GG	CC	CC	INTERGENIC			
SNP_14531_A_14889223	NC_021162.1	Ca_Kabuli_Chr03	14889223	AA	CC	CC	INTERGENIC			
SNP_14532_A_14889240	NC_021162.1	Ca_Kabuli_Chr03	14889240	AA	GG	GG	INTERGENIC			
SNP_14533_A_14889334	NC_021162.1	Ca_Kabuli_Chr03	14889334	TT	CC	CC	INTERGENIC			
SNP_14534_A_14889463	NC_021162.1	Ca_Kabuli_Chr03	14889463	TT	AA	AA	INTERGENIC			
SNP_14535_A_14889568	NC_021162.1	Ca_Kabuli_Chr03	14889568	AA	TT	TT	INTERGENIC			
SNP_14536_A_14889664	NC_021162.1	Ca_Kabuli_Chr03	14889664	CC	TT	TT	INTERGENIC			
SNP_14537_A_14889745	NC_021162.1	Ca_Kabuli_Chr03	14889745	CC	TT	TT	INTERGENIC			
SNP_14538_A_14889805	NC_021162.1	Ca_Kabuli_Chr03	14889805	TT	CC	CC	INTERGENIC			
SNP_14539_A_14890062	NC_021162.1	Ca_Kabuli_Chr03	14890062	AA	TT	TT	INTERGENIC			
SNP_14540_A_14890932	NC_021162.1	Ca_Kabuli_Chr03	14890932	AA	GG	GG	INTERGENIC			
SNP_14541_A_14890933	NC_021162.1	Ca_Kabuli_Chr03	14890933	TT	CC	CC	INTERGENIC			
SNP_14542_A_14891174	NC_021162.1	Ca_Kabuli_Chr03	14891174	GG	CC	CC	INTERGENIC			
SNP_14543_A_14891213	NC_021162.1	Ca_Kabuli_Chr03	14891213	CC	AA	AA	INTERGENIC			
SNP_14544_A_14892951	NC_021162.1	Ca_Kabuli_Chr03	14892951	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14545_A_14893246	NC_021162.1	Ca_Kabuli_Chr03	14893246	CC	TT	TT	INTERGENIC			
SNP_14546_A_14893290	NC_021162.1	Ca_Kabuli_Chr03	14893290	GG	CC	CC	INTERGENIC			
SNP_14547_A_14893385	NC_021162.1	Ca_Kabuli_Chr03	14893385	CC	AA	AA	INTERGENIC			
SNP_14548_A_14893438	NC_021162.1	Ca_Kabuli_Chr03	14893438	TT	CC	CC	INTERGENIC			
SNP_14549_A_14893486	NC_021162.1	Ca_Kabuli_Chr03	14893486	CC	GG	GG	INTERGENIC			
SNP_14550_A_14893498	NC_021162.1	Ca_Kabuli_Chr03	14893498	AA	TT	TT	INTERGENIC			
SNP_14551_A_14893537	NC_021162.1	Ca_Kabuli_Chr03	14893537	AA	CC	CC	INTERGENIC			
SNP_14552_A_14894352	NC_021162.1	Ca_Kabuli_Chr03	14894352	AA	GG	GG	INTERGENIC			
SNP_14554_A_14904456	NC_021162.1	Ca_Kabuli_Chr03	14904456	TT	CC	CC	INTERGENIC			
SNP_14555_A_14905191	NC_021162.1	Ca_Kabuli_Chr03	14905191	TT	GG	GG	INTERGENIC			
SNP_14556_A_14905954	NC_021162.1	Ca_Kabuli_Chr03	14905954	AA	TT	TT	INTERGENIC			
SNP_14557_A_14905963	NC_021162.1	Ca_Kabuli_Chr03	14905963	TT	GG	GG	INTERGENIC			
SNP_14558_A_14908015	NC_021162.1	Ca_Kabuli_Chr03	14908015	AA	TT	TT	INTERGENIC			
SNP_14560_A_14935253	NC_021162.1	Ca_Kabuli_Chr03	14935253	GG	TT	TT	INTERGENIC			
SNP_14561_A_14935255	NC_021162.1	Ca_Kabuli_Chr03	14935255	AA	GG	GG	INTERGENIC			
SNP_14562_A_14945054	NC_021162.1	Ca_Kabuli_Chr03	14945054	AA	TT	TT	INTERGENIC			
SNP_14564_A_14952189	NC_021162.1	Ca_Kabuli_Chr03	14952189	TT	GG	GG	INTERGENIC			
SNP_14565_A_14952213	NC_021162.1	Ca_Kabuli_Chr03	14952213	CC	GG	GG	INTERGENIC			
SNP_14566_A_14958702	NC_021162.1	Ca_Kabuli_Chr03	14958702	TT	CC	CC	INTERGENIC			
SNP_14567_A_14963933	NC_021162.1	Ca_Kabuli_Chr03	14963933	AA	GG	GG	INTERGENIC			
SNP_14568_A_15013555	NC_021162.1	Ca_Kabuli_Chr03	15013555	AA	GG	GG	URR		101502940	hydroquinone glucosyltransferase-like
SNP_14569_A_15013557	NC_021162.1	Ca_Kabuli_Chr03	15013557	TT	CC	CC	URR		101502940	hydroquinone glucosyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14570_A_15034415	NC_021162.1	Ca_Kabuli_Chr03	15034415	GG	TT	TT	INTERGENIC			
SNP_14571_A_15038336	NC_021162.1	Ca_Kabuli_Chr03	15038336	TT	CC	CC	INTERGENIC			
SNP_14572_A_15038518	NC_021162.1	Ca_Kabuli_Chr03	15038518	CC	TT	TT	INTERGENIC			
SNP_14573_A_15038531	NC_021162.1	Ca_Kabuli_Chr03	15038531	TT	CC	CC	INTERGENIC			
SNP_14574_A_15038792	NC_021162.1	Ca_Kabuli_Chr03	15038792	AA	CC	CC	INTERGENIC			
SNP_14575_A_15038981	NC_021162.1	Ca_Kabuli_Chr03	15038981	GG	AA	AA	INTERGENIC			
SNP_14576_A_15038989	NC_021162.1	Ca_Kabuli_Chr03	15038989	TT	CC	CC	INTERGENIC			
SNP_14578_A_15039766	NC_021162.1	Ca_Kabuli_Chr03	15039766	AA	CC	CC	INTERGENIC			
SNP_14579_A_15039772	NC_021162.1	Ca_Kabuli_Chr03	15039772	TT	AA	AA	INTERGENIC			
SNP_14581_A_15047555	NC_021162.1	Ca_Kabuli_Chr03	15047555	AA	TT	TT	INTERGENIC			
SNP_14582_A_15047616	NC_021162.1	Ca_Kabuli_Chr03	15047616	CC	TT	TT	INTERGENIC			
SNP_14583_A_15047652	NC_021162.1	Ca_Kabuli_Chr03	15047652	TT	CC	CC	INTERGENIC			
SNP_14584_A_15047667	NC_021162.1	Ca_Kabuli_Chr03	15047667	TT	GG	GG	INTERGENIC			
SNP_14585_A_15052207	NC_021162.1	Ca_Kabuli_Chr03	15052207	AA	CC	CC	NON_SYNONYMOUS_CODING	101506708		uncharacterized LOC101506708
SNP_14586_A_15052254	NC_021162.1	Ca_Kabuli_Chr03	15052254	GG	TT	TT	NON_SYNONYMOUS_CODING	101506708		uncharacterized LOC101506708
SNP_14587_A_15052898	NC_021162.1	Ca_Kabuli_Chr03	15052898	CC	GG	GG	URR	101506708		uncharacterized LOC101506708
SNP_14588_A_15053080	NC_021162.1	Ca_Kabuli_Chr03	15053080	GG	AA	AA	URR	101506708		uncharacterized LOC101506708
SNP_14590_A_15158798	NC_021162.1	Ca_Kabuli_Chr03	15158798	AA	CC	CC	INTERGENIC			
SNP_14591_A_15173136	NC_021162.1	Ca_Kabuli_Chr03	15173136	GG	CC	CC	INTERGENIC			
SNP_14592_A_15196240	NC_021162.1	Ca_Kabuli_Chr03	15196240	TT	CC	CC	INTERGENIC			
SNP_14593_A_15212417	NC_021162.1	Ca_Kabuli_Chr03	15212417	CC	AA	AA	INTERGENIC			
SNP_14594_A_15212540	NC_021162.1	Ca_Kabuli_Chr03	15212540	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14595_A_15216309	NC_021162.1	Ca_Kabuli_Chr03	15216309	AA	GG	GG	INTERGENIC		
SNP_14596_A_15231840	NC_021162.1	Ca_Kabuli_Chr03	15231840	GG	AA	AA	INTERGENIC		
SNP_14597_A_15232252	NC_021162.1	Ca_Kabuli_Chr03	15232252	AA	GG	GG	INTERGENIC		
SNP_14599_A_15265887	NC_021162.1	Ca_Kabuli_Chr03	15265887	CC	GG	GG	SYNONYMOUS_CODING	101510221	cytochrome b561 and DOMON domain-containing protein At3g25290
SNP_14600_A_15271826	NC_021162.1	Ca_Kabuli_Chr03	15271826	AA	GG	GG	INTERGENIC		
SNP_14601_A_15271833	NC_021162.1	Ca_Kabuli_Chr03	15271833	TT	CC	CC	INTERGENIC		
SNP_14602_A_15271861	NC_021162.1	Ca_Kabuli_Chr03	15271861	GG	AA	AA	INTERGENIC		
SNP_14603_A_15271867	NC_021162.1	Ca_Kabuli_Chr03	15271867	GG	AA	AA	INTERGENIC		
SNP_14604_A_15272204	NC_021162.1	Ca_Kabuli_Chr03	15272204	AA	GG	GG	INTERGENIC		
SNP_14605_A_15309631	NC_021162.1	Ca_Kabuli_Chr03	15309631	TT	CC	CC	INTERGENIC		
SNP_14606_A_15309941	NC_021162.1	Ca_Kabuli_Chr03	15309941	AA	GG	GG	INTERGENIC		
SNP_14607_A_15314199	NC_021162.1	Ca_Kabuli_Chr03	15314199	GG	AA	AA	INTERGENIC		
SNP_14608_A_15314229	NC_021162.1	Ca_Kabuli_Chr03	15314229	GG	AA	AA	INTERGENIC		
SNP_14609_A_15314488	NC_021162.1	Ca_Kabuli_Chr03	15314488	TT	CC	CC	INTERGENIC		
SNP_14615_A_15582179	NC_021162.1	Ca_Kabuli_Chr03	15582179	AA	CC	CC	INTERGENIC		
SNP_14616_A_15582184	NC_021162.1	Ca_Kabuli_Chr03	15582184	CC	GG	GG	INTERGENIC		
SNP_14617_A_15583874	NC_021162.1	Ca_Kabuli_Chr03	15583874	TT	CC	CC	INTERGENIC		
SNP_14618_A_15584182	NC_021162.1	Ca_Kabuli_Chr03	15584182	CC	AA	AA	INTERGENIC		
SNP_14619_A_15588665	NC_021162.1	Ca_Kabuli_Chr03	15588665	GG	AA	AA	INTERGENIC		
SNP_14620_A_15588669	NC_021162.1	Ca_Kabuli_Chr03	15588669	CC	TT	TT	INTERGENIC		
SNP_14621_A_15588672	NC_021162.1	Ca_Kabuli_Chr03	15588672	CC	TT	TT	INTERGENIC		
SNP_14622_A_15588682	NC_021162.1	Ca_Kabuli_Chr03	15588682	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14623_A_15588738	NC_021162.1	Ca_Kabuli_Chr03	15588738	AA	CC	CC	INTERGENIC			
SNP_14624_A_15589054	NC_021162.1	Ca_Kabuli_Chr03	15589054	GG	TT	TT	INTERGENIC			
SNP_14625_A_15589397	NC_021162.1	Ca_Kabuli_Chr03	15589397	TT	CC	CC	INTERGENIC			
SNP_14626_A_15596676	NC_021162.1	Ca_Kabuli_Chr03	15596676	TT	CC	CC	INTERGENIC			
SNP_14627_A_15633868	NC_021162.1	Ca_Kabuli_Chr03	15633868	GG	AA	AA	INTERGENIC			
SNP_14628_A_15649640	NC_021162.1	Ca_Kabuli_Chr03	15649640	CC	TT	TT	INTERGENIC			
SNP_14630_A_15652871	NC_021162.1	Ca_Kabuli_Chr03	15652871	TT	CC	CC	INTERGENIC			
SNP_14631_A_15657720	NC_021162.1	Ca_Kabuli_Chr03	15657720	GG	AA	AA	INTERGENIC			
SNP_14632_A_15657745	NC_021162.1	Ca_Kabuli_Chr03	15657745	AA	GG	GG	INTERGENIC			
SNP_14633_A_15657755	NC_021162.1	Ca_Kabuli_Chr03	15657755	TT	CC	CC	INTERGENIC			
SNP_14634_A_15657768	NC_021162.1	Ca_Kabuli_Chr03	15657768	AA	GG	GG	INTERGENIC			
SNP_14635_A_15657779	NC_021162.1	Ca_Kabuli_Chr03	15657779	AA	GG	GG	INTERGENIC			
SNP_14636_A_15657886	NC_021162.1	Ca_Kabuli_Chr03	15657886	GG	AA	AA	INTERGENIC			
SNP_14637_A_15657907	NC_021162.1	Ca_Kabuli_Chr03	15657907	CC	GG	GG	INTERGENIC			
SNP_14638_A_15657913	NC_021162.1	Ca_Kabuli_Chr03	15657913	TT	CC	CC	INTERGENIC			
SNP_14639_A_15657931	NC_021162.1	Ca_Kabuli_Chr03	15657931	AA	GG	GG	INTERGENIC			
SNP_14640_A_15657942	NC_021162.1	Ca_Kabuli_Chr03	15657942	CC	TT	TT	INTERGENIC			
SNP_14641_A_15657944	NC_021162.1	Ca_Kabuli_Chr03	15657944	AA	CC	CC	INTERGENIC			
SNP_14642_A_15657955	NC_021162.1	Ca_Kabuli_Chr03	15657955	TT	CC	CC	INTERGENIC			
SNP_14643_A_15657968	NC_021162.1	Ca_Kabuli_Chr03	15657968	CC	AA	AA	INTERGENIC			
SNP_14644_A_15657972	NC_021162.1	Ca_Kabuli_Chr03	15657972	AA	CC	CC	INTERGENIC			
SNP_14645_A_15657977	NC_021162.1	Ca_Kabuli_Chr03	15657977	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14646_A_15658021	NC_021162.1	Ca_Kabuli_Chr03	15658021	TT	CC	CC	INTERGENIC			
SNP_14647_A_15658361	NC_021162.1	Ca_Kabuli_Chr03	15658361	AA	TT	TT	INTERGENIC			
SNP_14648_A_15658537	NC_021162.1	Ca_Kabuli_Chr03	15658537	TT	CC	CC	INTERGENIC			
SNP_14649_A_15658598	NC_021162.1	Ca_Kabuli_Chr03	15658598	GG	TT	TT	INTERGENIC			
SNP_14650_A_15658686	NC_021162.1	Ca_Kabuli_Chr03	15658686	TT	GG	GG	INTERGENIC			
SNP_14651_A_15658714	NC_021162.1	Ca_Kabuli_Chr03	15658714	TT	GG	GG	INTERGENIC			
SNP_14652_A_15658736	NC_021162.1	Ca_Kabuli_Chr03	15658736	TT	CC	CC	INTERGENIC			
SNP_14653_A_15658803	NC_021162.1	Ca_Kabuli_Chr03	15658803	AA	CC	CC	INTERGENIC			
SNP_14654_A_15658805	NC_021162.1	Ca_Kabuli_Chr03	15658805	GG	CC	CC	INTERGENIC			
SNP_14655_A_15658815	NC_021162.1	Ca_Kabuli_Chr03	15658815	TT	CC	CC	INTERGENIC			
SNP_14656_A_15658819	NC_021162.1	Ca_Kabuli_Chr03	15658819	GG	AA	AA	INTERGENIC			
SNP_14657_A_15658867	NC_021162.1	Ca_Kabuli_Chr03	15658867	TT	CC	CC	INTERGENIC			
SNP_14658_A_15658923	NC_021162.1	Ca_Kabuli_Chr03	15658923	AA	GG	GG	INTERGENIC			
SNP_14659_A_15658928	NC_021162.1	Ca_Kabuli_Chr03	15658928	TT	CC	CC	INTERGENIC			
SNP_14660_A_15658971	NC_021162.1	Ca_Kabuli_Chr03	15658971	TT	CC	CC	INTERGENIC			
SNP_14661_A_15658984	NC_021162.1	Ca_Kabuli_Chr03	15658984	TT	CC	CC	INTERGENIC			
SNP_14662_A_15659061	NC_021162.1	Ca_Kabuli_Chr03	15659061	AA	CC	CC	INTERGENIC			
SNP_14663_A_15659075	NC_021162.1	Ca_Kabuli_Chr03	15659075	AA	CC	CC	INTERGENIC			
SNP_14664_A_15659081	NC_021162.1	Ca_Kabuli_Chr03	15659081	CC	TT	TT	INTERGENIC			
SNP_14665_A_15659125	NC_021162.1	Ca_Kabuli_Chr03	15659125	TT	CC	CC	INTERGENIC			
SNP_14666_A_15659138	NC_021162.1	Ca_Kabuli_Chr03	15659138	GG	TT	TT	INTERGENIC			
SNP_14667_A_15659140	NC_021162.1	Ca_Kabuli_Chr03	15659140	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14668_A_15659151	NC_021162.1	Ca_Kabuli_Chr03	15659151	CC	AA	AA	INTERGENIC			
SNP_14669_A_15659162	NC_021162.1	Ca_Kabuli_Chr03	15659162	TT	CC	CC	INTERGENIC			
SNP_14670_A_15659213	NC_021162.1	Ca_Kabuli_Chr03	15659213	AA	CC	CC	INTERGENIC			
SNP_14671_A_15659257	NC_021162.1	Ca_Kabuli_Chr03	15659257	CC	TT	TT	INTERGENIC			
SNP_14672_A_15659263	NC_021162.1	Ca_Kabuli_Chr03	15659263	TT	CC	CC	INTERGENIC			
SNP_14673_A_15659306	NC_021162.1	Ca_Kabuli_Chr03	15659306	TT	GG	GG	INTERGENIC			
SNP_14674_A_15659311	NC_021162.1	Ca_Kabuli_Chr03	15659311	TT	CC	CC	INTERGENIC			
SNP_14675_A_15659319	NC_021162.1	Ca_Kabuli_Chr03	15659319	GG	TT	TT	INTERGENIC			
SNP_14676_A_15659334	NC_021162.1	Ca_Kabuli_Chr03	15659334	CC	AA	AA	INTERGENIC			
SNP_14677_A_15659354	NC_021162.1	Ca_Kabuli_Chr03	15659354	AA	GG	GG	INTERGENIC			
SNP_14678_A_15659363	NC_021162.1	Ca_Kabuli_Chr03	15659363	AA	CC	CC	INTERGENIC			
SNP_14679_A_15659387	NC_021162.1	Ca_Kabuli_Chr03	15659387	GG	AA	AA	INTERGENIC			
SNP_14680_A_15659400	NC_021162.1	Ca_Kabuli_Chr03	15659400	TT	CC	CC	INTERGENIC			
SNP_14681_A_15659420	NC_021162.1	Ca_Kabuli_Chr03	15659420	TT	CC	CC	INTERGENIC			
SNP_14682_A_15659459	NC_021162.1	Ca_Kabuli_Chr03	15659459	AA	TT	TT	INTERGENIC			
SNP_14683_A_15659474	NC_021162.1	Ca_Kabuli_Chr03	15659474	AA	GG	GG	INTERGENIC			
SNP_14684_A_15659508	NC_021162.1	Ca_Kabuli_Chr03	15659508	TT	AA	AA	INTERGENIC			
SNP_14685_A_15659513	NC_021162.1	Ca_Kabuli_Chr03	15659513	AA	GG	GG	INTERGENIC			
SNP_14686_A_15659556	NC_021162.1	Ca_Kabuli_Chr03	15659556	AA	CC	CC	INTERGENIC			
SNP_14687_A_15659582	NC_021162.1	Ca_Kabuli_Chr03	15659582	GG	TT	TT	INTERGENIC			
SNP_14688_A_15659590	NC_021162.1	Ca_Kabuli_Chr03	15659590	TT	AA	AA	INTERGENIC			
SNP_14689_A_15659597	NC_021162.1	Ca_Kabuli_Chr03	15659597	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14690_A_15659616	NC_021162.1	Ca_Kabuli_Chr03	15659616	AA	CC	CC	INTERGENIC			
SNP_14691_A_15659651	NC_021162.1	Ca_Kabuli_Chr03	15659651	AA	GG	GG	INTERGENIC			
SNP_14692_A_15659653	NC_021162.1	Ca_Kabuli_Chr03	15659653	AA	GG	GG	INTERGENIC			
SNP_14693_A_15659667	NC_021162.1	Ca_Kabuli_Chr03	15659667	TT	CC	CC	INTERGENIC			
SNP_14694_A_15659694	NC_021162.1	Ca_Kabuli_Chr03	15659694	TT	CC	CC	INTERGENIC			
SNP_14695_A_15659712	NC_021162.1	Ca_Kabuli_Chr03	15659712	TT	CC	CC	INTERGENIC			
SNP_14696_A_15659749	NC_021162.1	Ca_Kabuli_Chr03	15659749	GG	CC	CC	INTERGENIC			
SNP_14697_A_15659774	NC_021162.1	Ca_Kabuli_Chr03	15659774	AA	CC	CC	INTERGENIC			
SNP_14698_A_15659806	NC_021162.1	Ca_Kabuli_Chr03	15659806	AA	GG	GG	INTERGENIC			
SNP_14699_A_15659811	NC_021162.1	Ca_Kabuli_Chr03	15659811	TT	CC	CC	INTERGENIC			
SNP_14700_A_15659867	NC_021162.1	Ca_Kabuli_Chr03	15659867	AA	GG	GG	INTERGENIC			
SNP_14701_A_15659957	NC_021162.1	Ca_Kabuli_Chr03	15659957	TT	CC	CC	INTERGENIC			
SNP_14702_A_15659997	NC_021162.1	Ca_Kabuli_Chr03	15659997	AA	GG	GG	INTERGENIC			
SNP_14703_A_15660047	NC_021162.1	Ca_Kabuli_Chr03	15660047	TT	CC	CC	INTERGENIC			
SNP_14704_A_15660063	NC_021162.1	Ca_Kabuli_Chr03	15660063	TT	CC	CC	INTERGENIC			
SNP_14705_A_15660076	NC_021162.1	Ca_Kabuli_Chr03	15660076	AA	GG	GG	INTERGENIC			
SNP_14706_A_15660096	NC_021162.1	Ca_Kabuli_Chr03	15660096	AA	GG	GG	INTERGENIC			
SNP_14707_A_15660116	NC_021162.1	Ca_Kabuli_Chr03	15660116	TT	CC	CC	INTERGENIC			
SNP_14708_A_15660128	NC_021162.1	Ca_Kabuli_Chr03	15660128	AA	GG	GG	INTERGENIC			
SNP_14709_A_15660163	NC_021162.1	Ca_Kabuli_Chr03	15660163	GG	AA	AA	INTERGENIC			
SNP_14710_A_15660341	NC_021162.1	Ca_Kabuli_Chr03	15660341	TT	CC	CC	INTERGENIC			
SNP_14711_A_15660348	NC_021162.1	Ca_Kabuli_Chr03	15660348	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14712_A_15660352	NC_021162.1	Ca_Kabuli_Chr03	15660352	AA	GG	GG	INTERGENIC		
SNP_14713_A_15660358	NC_021162.1	Ca_Kabuli_Chr03	15660358	AA	GG	GG	INTERGENIC		
SNP_14714_A_15660389	NC_021162.1	Ca_Kabuli_Chr03	15660389	AA	CC	CC	INTERGENIC		
SNP_14715_A_15660414	NC_021162.1	Ca_Kabuli_Chr03	15660414	TT	CC	CC	INTERGENIC		
SNP_14716_A_15660438	NC_021162.1	Ca_Kabuli_Chr03	15660438	CC	GG	GG	INTERGENIC		
SNP_14718_A_15660636	NC_021162.1	Ca_Kabuli_Chr03	15660636	AA	GG	GG	INTERGENIC		
SNP_14719_A_15660684	NC_021162.1	Ca_Kabuli_Chr03	15660684	AA	GG	GG	INTERGENIC		
SNP_14720_A_15721232	NC_021162.1	Ca_Kabuli_Chr03	15721232	AA	GG	GG	URR	101515302	gibberellin 2-beta-dioxygenase 8-like
SNP_14721_A_15806617	NC_021162.1	Ca_Kabuli_Chr03	15806617	CC	GG	GG	INTERGENIC		
SNP_14722_A_15810106	NC_021162.1	Ca_Kabuli_Chr03	15810106	AA	GG	GG	INTERGENIC		
SNP_14723_A_15820877	NC_021162.1	Ca_Kabuli_Chr03	15820877	GG	TT	TT	INTERGENIC		
SNP_14724_A_15820898	NC_021162.1	Ca_Kabuli_Chr03	15820898	TT	GG	GG	INTERGENIC		
SNP_14726_A_15884777	NC_021162.1	Ca_Kabuli_Chr03	15884777	AA	GG	GG	INTRON	101489586	protein FAR1-RELATED SEQUENCE 12
SNP_14727_A_15884782	NC_021162.1	Ca_Kabuli_Chr03	15884782	TT	CC	CC	INTRON	101489586	protein FAR1-RELATED SEQUENCE 12
SNP_14728_A_15940776	NC_021162.1	Ca_Kabuli_Chr03	15940776	TT	CC	CC	URR	101491106	poly(A)-specific ribonuclease PARN-like
SNP_14729_A_15978309	NC_021162.1	Ca_Kabuli_Chr03	15978309	TT	CC	CC	INTRON	101491636	metacaspase-1
SNP_14730_A_15988949	NC_021162.1	Ca_Kabuli_Chr03	15988949	GG	AA	AA	INTERGENIC		
SNP_14731_A_16046766	NC_021162.1	Ca_Kabuli_Chr03	16046766	CC	TT	TT	URR	101498354	zinc finger MYM-type protein 1-like
SNP_14732_A_16087690	NC_021162.1	Ca_Kabuli_Chr03	16087690	CC	TT	TT	INTERGENIC		
SNP_14733_A_16087743	NC_021162.1	Ca_Kabuli_Chr03	16087743	GG	AA	AA	INTERGENIC		
SNP_14734_A_16088210	NC_021162.1	Ca_Kabuli_Chr03	16088210	TT	CC	CC	INTERGENIC		
SNP_14735_A_16094341	NC_021162.1	Ca_Kabuli_Chr03	16094341	GG	AA	AA	INTERGENIC		

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SNP_14736_A_16106719	NC_021162.1	Ca_Kabuli_Chr03	16106719	TT	CC	CC	INTERGENIC			
SNP_14737_A_16106734	NC_021162.1	Ca_Kabuli_Chr03	16106734	TT	AA	AA	INTERGENIC			
SNP_14738_A_16106945	NC_021162.1	Ca_Kabuli_Chr03	16106945	AA	GG	GG	INTERGENIC			
SNP_14739_A_16106983	NC_021162.1	Ca_Kabuli_Chr03	16106983	TT	CC	CC	INTERGENIC			
SNP_14740_A_16107228	NC_021162.1	Ca_Kabuli_Chr03	16107228	AA	GG	GG	INTERGENIC			
SNP_14741_A_16107263	NC_021162.1	Ca_Kabuli_Chr03	16107263	AA	GG	GG	INTERGENIC			
SNP_14742_A_16107292	NC_021162.1	Ca_Kabuli_Chr03	16107292	AA	GG	GG	INTERGENIC			
SNP_14743_A_16107345	NC_021162.1	Ca_Kabuli_Chr03	16107345	CC	TT	TT	INTERGENIC			
SNP_14744_A_16115088	NC_021162.1	Ca_Kabuli_Chr03	16115088	AA	GG	GG	INTERGENIC			
SNP_14745_A_16115201	NC_021162.1	Ca_Kabuli_Chr03	16115201	GG	AA	AA	INTERGENIC			
SNP_14746_A_16115209	NC_021162.1	Ca_Kabuli_Chr03	16115209	CC	AA	AA	INTERGENIC			
SNP_14747_A_16116723	NC_021162.1	Ca_Kabuli_Chr03	16116723	TT	AA	AA	INTERGENIC			
SNP_14748_A_16117260	NC_021162.1	Ca_Kabuli_Chr03	16117260	AA	GG	GG	INTERGENIC			
SNP_14749_A_16117458	NC_021162.1	Ca_Kabuli_Chr03	16117458	CC	TT	TT	INTERGENIC			
SNP_14750_A_16117549	NC_021162.1	Ca_Kabuli_Chr03	16117549	GG	AA	AA	INTERGENIC			
SNP_14751_A_16117587	NC_021162.1	Ca_Kabuli_Chr03	16117587	CC	AA	AA	INTERGENIC			
SNP_14752_A_16117952	NC_021162.1	Ca_Kabuli_Chr03	16117952	AA	TT	TT	INTERGENIC			
SNP_14753_A_16125786	NC_021162.1	Ca_Kabuli_Chr03	16125786	TT	AA	AA	INTERGENIC			
SNP_14755_A_16133223	NC_021162.1	Ca_Kabuli_Chr03	16133223	TT	CC	CC	INTERGENIC			
SNP_14757_A_16133445	NC_021162.1	Ca_Kabuli_Chr03	16133445	CC	GG	GG	INTERGENIC			
SNP_14761_A_16155154	NC_021162.1	Ca_Kabuli_Chr03	16155154	GG	AA	AA	INTERGENIC			
SNP_14762_A_16160472	NC_021162.1	Ca_Kabuli_Chr03	16160472	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14763_A_16160921	NC_021162.1	Ca_Kabuli_Chr03	16160921	AA	GG	GG	INTERGENIC			
SNP_14764_A_16160922	NC_021162.1	Ca_Kabuli_Chr03	16160922	TT	CC	CC	INTERGENIC			
SNP_14765_A_16160936	NC_021162.1	Ca_Kabuli_Chr03	16160936	TT	AA	AA	INTERGENIC			
SNP_14766_A_16160958	NC_021162.1	Ca_Kabuli_Chr03	16160958	TT	GG	GG	INTERGENIC			
SNP_14767_A_16161146	NC_021162.1	Ca_Kabuli_Chr03	16161146	AA	GG	GG	INTERGENIC			
SNP_14768_A_16164160	NC_021162.1	Ca_Kabuli_Chr03	16164160	GG	AA	AA	INTERGENIC			
SNP_14769_A_16164177	NC_021162.1	Ca_Kabuli_Chr03	16164177	CC	TT	TT	INTERGENIC			
SNP_14770_A_16164198	NC_021162.1	Ca_Kabuli_Chr03	16164198	AA	GG	GG	INTERGENIC			
SNP_14771_A_16166613	NC_021162.1	Ca_Kabuli_Chr03	16166613	AA	GG	GG	INTERGENIC			
SNP_14772_A_16166640	NC_021162.1	Ca_Kabuli_Chr03	16166640	TT	CC	CC	INTERGENIC			
SNP_14774_A_16166862	NC_021162.1	Ca_Kabuli_Chr03	16166862	AA	TT	TT	INTERGENIC			
SNP_14775_A_16166938	NC_021162.1	Ca_Kabuli_Chr03	16166938	GG	AA	AA	INTERGENIC			
SNP_14776_A_16167055	NC_021162.1	Ca_Kabuli_Chr03	16167055	TT	CC	CC	INTERGENIC			
SNP_14777_A_16167092	NC_021162.1	Ca_Kabuli_Chr03	16167092	AA	GG	GG	INTERGENIC			
SNP_14778_A_16167100	NC_021162.1	Ca_Kabuli_Chr03	16167100	GG	TT	TT	INTERGENIC			
SNP_14779_A_16167116	NC_021162.1	Ca_Kabuli_Chr03	16167116	CC	TT	TT	INTERGENIC			
SNP_14780_A_16167247	NC_021162.1	Ca_Kabuli_Chr03	16167247	AA	GG	GG	INTERGENIC			
SNP_14782_A_16168969	NC_021162.1	Ca_Kabuli_Chr03	16168969	GG	AA	AA	INTERGENIC			
SNP_14783_A_16168982	NC_021162.1	Ca_Kabuli_Chr03	16168982	CC	TT	TT	INTERGENIC			
SNP_14784_A_16169143	NC_021162.1	Ca_Kabuli_Chr03	16169143	AA	GG	GG	INTERGENIC			
SNP_14785_A_16169169	NC_021162.1	Ca_Kabuli_Chr03	16169169	AA	GG	GG	INTERGENIC			
SNP_14786_A_16169209	NC_021162.1	Ca_Kabuli_Chr03	16169209	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14787_A_16169245	NC_021162.1	Ca_Kabuli_Chr03	16169245	GG	AA	AA	INTERGENIC			
SNP_14788_A_16170975	NC_021162.1	Ca_Kabuli_Chr03	16170975	CC	TT	TT	INTERGENIC			
SNP_14789_A_16170997	NC_021162.1	Ca_Kabuli_Chr03	16170997	TT	CC	CC	INTERGENIC			
SNP_14790_A_16170998	NC_021162.1	Ca_Kabuli_Chr03	16170998	CC	AA	AA	INTERGENIC			
SNP_14791_A_16171007	NC_021162.1	Ca_Kabuli_Chr03	16171007	GG	AA	AA	INTERGENIC			
SNP_14792_A_16171028	NC_021162.1	Ca_Kabuli_Chr03	16171028	CC	TT	TT	INTERGENIC			
SNP_14793_A_16171051	NC_021162.1	Ca_Kabuli_Chr03	16171051	TT	CC	CC	INTERGENIC			
SNP_14795_A_16171366	NC_021162.1	Ca_Kabuli_Chr03	16171366	CC	TT	TT	INTERGENIC			
SNP_14796_A_16171409	NC_021162.1	Ca_Kabuli_Chr03	16171409	TT	GG	GG	INTERGENIC			
SNP_14797_A_16171625	NC_021162.1	Ca_Kabuli_Chr03	16171625	AA	TT	TT	INTERGENIC			
SNP_14798_A_16171811	NC_021162.1	Ca_Kabuli_Chr03	16171811	TT	CC	CC	INTERGENIC			
SNP_14799_A_16181553	NC_021162.1	Ca_Kabuli_Chr03	16181553	GG	TT	TT	INTERGENIC			
SNP_14800_A_16181559	NC_021162.1	Ca_Kabuli_Chr03	16181559	GG	TT	TT	INTERGENIC			
SNP_14801_A_16181971	NC_021162.1	Ca_Kabuli_Chr03	16181971	CC	TT	TT	INTERGENIC			
SNP_14802_A_16182007	NC_021162.1	Ca_Kabuli_Chr03	16182007	CC	TT	TT	INTERGENIC			
SNP_14803_A_16182646	NC_021162.1	Ca_Kabuli_Chr03	16182646	TT	CC	CC	INTERGENIC			
SNP_14804_A_16182674	NC_021162.1	Ca_Kabuli_Chr03	16182674	GG	AA	AA	INTERGENIC			
SNP_14806_A_16182938	NC_021162.1	Ca_Kabuli_Chr03	16182938	GG	AA	AA	INTERGENIC			
SNP_14807_A_16183118	NC_021162.1	Ca_Kabuli_Chr03	16183118	CC	TT	TT	INTERGENIC			
SNP_14808_A_16183187	NC_021162.1	Ca_Kabuli_Chr03	16183187	CC	TT	TT	INTERGENIC			
SNP_14809_A_16183207	NC_021162.1	Ca_Kabuli_Chr03	16183207	GG	AA	AA	INTERGENIC			
SNP_14810_A_16183241	NC_021162.1	Ca_Kabuli_Chr03	16183241	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14811_A_16183257	NC_021162.1	Ca_Kabuli_Chr03	16183257	TT	CC	CC	INTERGENIC		
SNP_14812_A_16183452	NC_021162.1	Ca_Kabuli_Chr03	16183452	TT	AA	AA	INTERGENIC		
SNP_14813_A_16190276	NC_021162.1	Ca_Kabuli_Chr03	16190276	GG	TT	TT	INTERGENIC		
SNP_14814_A_16190500	NC_021162.1	Ca_Kabuli_Chr03	16190500	TT	CC	CC	INTERGENIC		
SNP_14815_A_16190693	NC_021162.1	Ca_Kabuli_Chr03	16190693	AA	GG	GG	INTERGENIC		
SNP_14816_A_16190727	NC_021162.1	Ca_Kabuli_Chr03	16190727	CC	TT	TT	INTERGENIC		
SNP_14817_A_16190766	NC_021162.1	Ca_Kabuli_Chr03	16190766	TT	AA	AA	INTERGENIC		
SNP_14819_A_16190976	NC_021162.1	Ca_Kabuli_Chr03	16190976	AA	GG	GG	INTERGENIC		
SNP_14820_A_16195021	NC_021162.1	Ca_Kabuli_Chr03	16195021	CC	TT	TT	DRR	101498696	Unknown function
SNP_14821_A_16195099	NC_021162.1	Ca_Kabuli_Chr03	16195099	GG	AA	AA	DRR	101498696	Unknown function
SNP_14823_A_16195223	NC_021162.1	Ca_Kabuli_Chr03	16195223	AA	GG	GG	DRR	101498696	Unknown function
SNP_14826_A_16195752	NC_021162.1	Ca_Kabuli_Chr03	16195752	AA	TT	TT	DRR	101498696	Unknown function
SNP_14827_A_16195770	NC_021162.1	Ca_Kabuli_Chr03	16195770	CC	TT	TT	DRR	101498696	Unknown function
SNP_14828_A_16195781	NC_021162.1	Ca_Kabuli_Chr03	16195781	GG	CC	CC	DRR	101498696	Unknown function
SNP_14829_A_16195806	NC_021162.1	Ca_Kabuli_Chr03	16195806	AA	TT	TT	DRR	101498696	Unknown function
SNP_14830_A_16195811	NC_021162.1	Ca_Kabuli_Chr03	16195811	CC	AA	AA	DRR	101498696	Unknown function
SNP_14831_A_16195828	NC_021162.1	Ca_Kabuli_Chr03	16195828	CC	GG	GG	DRR	101498696	Unknown function
SNP_14832_A_16195883	NC_021162.1	Ca_Kabuli_Chr03	16195883	GG	AA	AA	URR	101498696	Unknown function
SNP_14833_A_16195914	NC_021162.1	Ca_Kabuli_Chr03	16195914	AA	GG	GG	URR	101498696	Unknown function
SNP_14834_A_16196052	NC_021162.1	Ca_Kabuli_Chr03	16196052	TT	CC	CC	INTRON	101498696	Unknown function
SNP_14835_A_16196098	NC_021162.1	Ca_Kabuli_Chr03	16196098	CC	TT	TT	INTRON	101498696	Unknown function
SNP_14836_A_16196649	NC_021162.1	Ca_Kabuli_Chr03	16196649	TT	AA	AA	INTRON	101498696	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14837_A_16196718	NC_021162.1	Ca_Kabuli_Chr03	16196718	AA	TT	TT	INTRON	101498696	Unknown function
SNP_14838_A_16196841	NC_021162.1	Ca_Kabuli_Chr03	16196841	TT	AA	AA	INTRON	101498696	Unknown function
SNP_14839_A_16196885	NC_021162.1	Ca_Kabuli_Chr03	16196885	TT	AA	AA	INTRON	101498696	Unknown function
SNP_14840_A_16197226	NC_021162.1	Ca_Kabuli_Chr03	16197226	AA	CC	CC	NON_SYNONYMOUS_CODING	101498696	Unknown function
SNP_14842_A_16197370	NC_021162.1	Ca_Kabuli_Chr03	16197370	AA	GG	GG	DRR	101498696	Unknown function
SNP_14843_A_16197539	NC_021162.1	Ca_Kabuli_Chr03	16197539	GG	TT	TT	URR	101498696	Unknown function
SNP_14844_A_16197582	NC_021162.1	Ca_Kabuli_Chr03	16197582	CC	AA	AA	URR	101498696	Unknown function
SNP_14845_A_16197638	NC_021162.1	Ca_Kabuli_Chr03	16197638	AA	GG	GG	URR	101498696	Unknown function
SNP_14846_A_16197653	NC_021162.1	Ca_Kabuli_Chr03	16197653	CC	TT	TT	URR	101498696	Unknown function
SNP_14847_A_16197689	NC_021162.1	Ca_Kabuli_Chr03	16197689	AA	GG	GG	URR	101498696	Unknown function
SNP_14848_A_16197703	NC_021162.1	Ca_Kabuli_Chr03	16197703	GG	AA	AA	URR	101498696	Unknown function
SNP_14849_A_16197713	NC_021162.1	Ca_Kabuli_Chr03	16197713	TT	CC	CC	URR	101498696	Unknown function
SNP_14850_A_16197731	NC_021162.1	Ca_Kabuli_Chr03	16197731	GG	AA	AA	URR	101498696	Unknown function
SNP_14851_A_16197733	NC_021162.1	Ca_Kabuli_Chr03	16197733	CC	TT	TT	URR	101498696	Unknown function
SNP_14852_A_16197749	NC_021162.1	Ca_Kabuli_Chr03	16197749	TT	CC	CC	URR	101498696	Unknown function
SNP_14853_A_16211946	NC_021162.1	Ca_Kabuli_Chr03	16211946	TT	CC	CC	INTERGENIC		
SNP_14854_A_16211999	NC_021162.1	Ca_Kabuli_Chr03	16211999	TT	AA	AA	INTERGENIC		
SNP_14855_A_16212077	NC_021162.1	Ca_Kabuli_Chr03	16212077	AA	GG	GG	INTERGENIC		
SNP_14856_A_16212123	NC_021162.1	Ca_Kabuli_Chr03	16212123	CC	AA	AA	INTERGENIC		
SNP_14857_A_16212168	NC_021162.1	Ca_Kabuli_Chr03	16212168	AA	GG	GG	INTERGENIC		
SNP_14858_A_16212198	NC_021162.1	Ca_Kabuli_Chr03	16212198	GG	TT	TT	INTERGENIC		
SNP_14859_A_16212226	NC_021162.1	Ca_Kabuli_Chr03	16212226	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14860_A_16212290	NC_021162.1	Ca_Kabuli_Chr03	16212290	AA	TT	TT	INTERGENIC			
SNP_14861_A_16212362	NC_021162.1	Ca_Kabuli_Chr03	16212362	AA	GG	GG	INTERGENIC			
SNP_14863_A_16212401	NC_021162.1	Ca_Kabuli_Chr03	16212401	TT	CC	CC	INTERGENIC			
SNP_14864_A_16212438	NC_021162.1	Ca_Kabuli_Chr03	16212438	TT	CC	CC	INTERGENIC			
SNP_14865_A_16212485	NC_021162.1	Ca_Kabuli_Chr03	16212485	CC	GG	GG	INTERGENIC			
SNP_14866_A_16212488	NC_021162.1	Ca_Kabuli_Chr03	16212488	TT	CC	CC	INTERGENIC			
SNP_14867_A_16236381	NC_021162.1	Ca_Kabuli_Chr03	16236381	AA	TT	TT	INTERGENIC			
SNP_14868_A_16236392	NC_021162.1	Ca_Kabuli_Chr03	16236392	CC	TT	TT	INTERGENIC			
SNP_14869_A_16236480	NC_021162.1	Ca_Kabuli_Chr03	16236480	AA	GG	GG	INTERGENIC			
SNP_14870_A_16237507	NC_021162.1	Ca_Kabuli_Chr03	16237507	AA	GG	GG	INTERGENIC			
SNP_14871_A_16237518	NC_021162.1	Ca_Kabuli_Chr03	16237518	TT	AA	AA	INTERGENIC			
SNP_14872_A_16237530	NC_021162.1	Ca_Kabuli_Chr03	16237530	TT	CC	CC	INTERGENIC			
SNP_14873_A_16240320	NC_021162.1	Ca_Kabuli_Chr03	16240320	TT	AA	AA	INTERGENIC			
SNP_14874_A_16244871	NC_021162.1	Ca_Kabuli_Chr03	16244871	CC	TT	TT	INTERGENIC			
SNP_14875_A_16245336	NC_021162.1	Ca_Kabuli_Chr03	16245336	GG	CC	CC	INTERGENIC			
SNP_14876_A_16245342	NC_021162.1	Ca_Kabuli_Chr03	16245342	AA	GG	GG	INTERGENIC			
SNP_14877_A_16264128	NC_021162.1	Ca_Kabuli_Chr03	16264128	GG	CC	CC	INTERGENIC			
SNP_14878_A_16283986	NC_021162.1	Ca_Kabuli_Chr03	16283986	GG	AA	AA	INTERGENIC			
SNP_14879_A_16284046	NC_021162.1	Ca_Kabuli_Chr03	16284046	TT	CC	CC	INTERGENIC			
SNP_14880_A_16309753	NC_021162.1	Ca_Kabuli_Chr03	16309753	AA	TT	TT	INTERGENIC			
SNP_14881_A_16331630	NC_021162.1	Ca_Kabuli_Chr03	16331630	AA	CC	CC	INTERGENIC			
SNP_14882_A_16331807	NC_021162.1	Ca_Kabuli_Chr03	16331807	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14883_A_16331822	NC_021162.1	Ca_Kabuli_Chr03	16331822	AA	CC	CC	INTERGENIC		
SNP_14884_A_16331838	NC_021162.1	Ca_Kabuli_Chr03	16331838	TT	AA	AA	INTERGENIC		
SNP_14885_A_16331935	NC_021162.1	Ca_Kabuli_Chr03	16331935	GG	AA	AA	INTERGENIC		
SNP_14888_A_16413569	NC_021162.1	Ca_Kabuli_Chr03	16413569	TT	CC	CC	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14889_A_16413573	NC_021162.1	Ca_Kabuli_Chr03	16413573	TT	CC	CC	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14890_A_16413587	NC_021162.1	Ca_Kabuli_Chr03	16413587	GG	AA	AA	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14891_A_16413639	NC_021162.1	Ca_Kabuli_Chr03	16413639	AA	GG	GG	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14892_A_16413642	NC_021162.1	Ca_Kabuli_Chr03	16413642	GG	AA	AA	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14893_A_16413648	NC_021162.1	Ca_Kabuli_Chr03	16413648	GG	AA	AA	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14894_A_16413662	NC_021162.1	Ca_Kabuli_Chr03	16413662	CC	TT	TT	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14895_A_16413954	NC_021162.1	Ca_Kabuli_Chr03	16413954	TT	CC	CC	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14896_A_16414054	NC_021162.1	Ca_Kabuli_Chr03	16414054	AA	CC	CC	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14897_A_16414066	NC_021162.1	Ca_Kabuli_Chr03	16414066	GG	AA	AA	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14898_A_16414104	NC_021162.1	Ca_Kabuli_Chr03	16414104	GG	AA	AA	URR	101410587	transfer RNA lysine (anticodon UUU)
SNP_14900_A_16441419	NC_021162.1	Ca_Kabuli_Chr03	16441419	TT	AA	AA	INTERGENIC		
SNP_14901_A_16441444	NC_021162.1	Ca_Kabuli_Chr03	16441444	TT	CC	CC	INTERGENIC		
SNP_14902_A_16441500	NC_021162.1	Ca_Kabuli_Chr03	16441500	TT	CC	CC	INTERGENIC		
SNP_14903_A_16441514	NC_021162.1	Ca_Kabuli_Chr03	16441514	CC	AA	AA	INTERGENIC		
SNP_14904_A_16441516	NC_021162.1	Ca_Kabuli_Chr03	16441516	AA	TT	TT	INTERGENIC		
SNP_14905_A_16441517	NC_021162.1	Ca_Kabuli_Chr03	16441517	AA	GG	GG	INTERGENIC		
SNP_14906_A_16441550	NC_021162.1	Ca_Kabuli_Chr03	16441550	GG	AA	AA	INTERGENIC		
SNP_14907_A_16441687	NC_021162.1	Ca_Kabuli_Chr03	16441687	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14908_A_16454570	NC_021162.1	Ca_Kabuli_Chr03	16454570	CC	TT	TT	INTERGENIC		
SNP_14909_A_16466973	NC_021162.1	Ca_Kabuli_Chr03	16466973	GG	AA	AA	INTERGENIC		
SNP_14910_A_16467050	NC_021162.1	Ca_Kabuli_Chr03	16467050	TT	CC	CC	INTERGENIC		
SNP_14911_A_16471580	NC_021162.1	Ca_Kabuli_Chr03	16471580	CC	TT	TT	INTERGENIC		
SNP_14912_A_16471630	NC_021162.1	Ca_Kabuli_Chr03	16471630	TT	GG	GG	INTERGENIC		
SNP_14913_A_16471637	NC_021162.1	Ca_Kabuli_Chr03	16471637	AA	TT	TT	INTERGENIC		
SNP_14914_A_16471686	NC_021162.1	Ca_Kabuli_Chr03	16471686	AA	GG	GG	INTERGENIC		
SNP_14915_A_16471687	NC_021162.1	Ca_Kabuli_Chr03	16471687	AA	GG	GG	INTERGENIC		
SNP_14916_A_16471943	NC_021162.1	Ca_Kabuli_Chr03	16471943	TT	GG	GG	INTERGENIC		
SNP_14917_A_16504050	NC_021162.1	Ca_Kabuli_Chr03	16504050	CC	TT	TT	URR	101511842	Unknown function
SNP_14918_A_16504960	NC_021162.1	Ca_Kabuli_Chr03	16504960	TT	AA	AA	URR	101511842	Unknown function
SNP_14920_A_16530781	NC_021162.1	Ca_Kabuli_Chr03	16530781	AA	TT	TT	DRR	101501345	40S ribosomal protein S6-like
SNP_14922_A_16633818	NC_021162.1	Ca_Kabuli_Chr03	16633818	TT	CC	CC	INTERGENIC		
SNP_14923_A_16652183	NC_021162.1	Ca_Kabuli_Chr03	16652183	AA	TT	TT	URR	101502828	U-box domain-containing protein 9-like
SNP_14924_A_16652187	NC_021162.1	Ca_Kabuli_Chr03	16652187	AA	GG	GG	URR	101502828	U-box domain-containing protein 9-like
SNP_14925_A_16668226	NC_021162.1	Ca_Kabuli_Chr03	16668226	GG	AA	AA	INTERGENIC		
SNP_14926_A_16747356	NC_021162.1	Ca_Kabuli_Chr03	16747356	TT	CC	CC	INTERGENIC		
SNP_14927_A_16747361	NC_021162.1	Ca_Kabuli_Chr03	16747361	TT	CC	CC	INTERGENIC		
SNP_14928_A_16747373	NC_021162.1	Ca_Kabuli_Chr03	16747373	AA	GG	GG	INTERGENIC		
SNP_14929_A_16747391	NC_021162.1	Ca_Kabuli_Chr03	16747391	TT	CC	CC	INTERGENIC		
SNP_14930_A_16747396	NC_021162.1	Ca_Kabuli_Chr03	16747396	TT	CC	CC	INTERGENIC		
SNP_14931_A_16763108	NC_021162.1	Ca_Kabuli_Chr03	16763108	CC	TT	TT	INTRON	101503701	probable mitochondrial-processing peptidase subunit beta

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14932_A_16772686	NC_021162.1	Ca_Kabuli_Chr03	16772686	CC	TT	TT	INTERGENIC		
SNP_14934_A_16784985	NC_021162.1	Ca_Kabuli_Chr03	16784985	CC	AA	AA	INTERGENIC		
SNP_14936_A_16820942	NC_021162.1	Ca_Kabuli_Chr03	16820942	TT	CC	CC	INTERGENIC		
SNP_14937_A_16879573	NC_021162.1	Ca_Kabuli_Chr03	16879573	TT	CC	CC	INTERGENIC		
SNP_14939_A_16891349	NC_021162.1	Ca_Kabuli_Chr03	16891349	GG	AA	AA	DRR	101504338	40S ribosomal protein S8-like
SNP_14940_A_16900404	NC_021162.1	Ca_Kabuli_Chr03	16900404	CC	TT	TT	INTERGENIC		
SNP_14941_A_16937639	NC_021162.1	Ca_Kabuli_Chr03	16937639	TT	AA	AA	DRR	101505841	probable glucan endo-1,3-beta-glucosidase A6
SNP_14943_A_17015839	NC_021162.1	Ca_Kabuli_Chr03	17015839	AA	CC	CC	INTERGENIC		
SNP_14944_A_17030909	NC_021162.1	Ca_Kabuli_Chr03	17030909	AA	TT	TT	INTERGENIC		
SNP_14945_A_17030915	NC_021162.1	Ca_Kabuli_Chr03	17030915	TT	AA	AA	INTERGENIC		
SNP_14946_A_17031033	NC_021162.1	Ca_Kabuli_Chr03	17031033	CC	TT	TT	INTERGENIC		
SNP_14947_A_17031342	NC_021162.1	Ca_Kabuli_Chr03	17031342	AA	GG	GG	INTERGENIC		
SNP_14948_A_17031413	NC_021162.1	Ca_Kabuli_Chr03	17031413	TT	GG	GG	INTERGENIC		
SNP_14949_A_17031515	NC_021162.1	Ca_Kabuli_Chr03	17031515	AA	TT	TT	INTERGENIC		
SNP_14950_A_17031539	NC_021162.1	Ca_Kabuli_Chr03	17031539	TT	GG	GG	INTERGENIC		
SNP_14951_A_17031886	NC_021162.1	Ca_Kabuli_Chr03	17031886	AA	CC	CC	INTERGENIC		
SNP_14953_A_17034515	NC_021162.1	Ca_Kabuli_Chr03	17034515	AA	GG	GG	INTERGENIC		
SNP_14954_A_17035050	NC_021162.1	Ca_Kabuli_Chr03	17035050	AA	GG	GG	INTERGENIC		
SNP_14955_A_17038966	NC_021162.1	Ca_Kabuli_Chr03	17038966	TT	GG	GG	INTERGENIC		
SNP_14956_A_17039093	NC_021162.1	Ca_Kabuli_Chr03	17039093	AA	GG	GG	INTERGENIC		
SNP_14957_A_17039154	NC_021162.1	Ca_Kabuli_Chr03	17039154	TT	AA	AA	INTERGENIC		
SNP_14958_A_17039230	NC_021162.1	Ca_Kabuli_Chr03	17039230	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_14960_A_17039333	NC_021162.1	Ca_Kabuli_Chr03	17039333	AA	GG	GG	INTERGENIC			
SNP_14961_A_17039363	NC_021162.1	Ca_Kabuli_Chr03	17039363	AA	CC	CC	INTERGENIC			
SNP_14962_A_17039364	NC_021162.1	Ca_Kabuli_Chr03	17039364	CC	TT	TT	INTERGENIC			
SNP_14963_A_17039450	NC_021162.1	Ca_Kabuli_Chr03	17039450	TT	AA	AA	INTERGENIC			
SNP_14964_A_17039463	NC_021162.1	Ca_Kabuli_Chr03	17039463	AA	TT	TT	INTERGENIC			
SNP_14966_A_17135281	NC_021162.1	Ca_Kabuli_Chr03	17135281	GG	AA	AA	INTERGENIC			
SNP_14967_A_17138524	NC_021162.1	Ca_Kabuli_Chr03	17138524	CC	GG	GG	INTERGENIC			
SNP_14968_A_17169294	NC_021162.1	Ca_Kabuli_Chr03	17169294	GG	CC	CC	INTERGENIC			
SNP_14971_A_17219949	NC_021162.1	Ca_Kabuli_Chr03	17219949	CC	TT	TT	INTERGENIC			
SNP_14972_A_17239658	NC_021162.1	Ca_Kabuli_Chr03	17239658	CC	AA	AA	INTERGENIC			
SNP_14973_A_17249904	NC_021162.1	Ca_Kabuli_Chr03	17249904	AA	GG	GG	INTERGENIC			
SNP_14974_A_17292310	NC_021162.1	Ca_Kabuli_Chr03	17292310	TT	CC	CC	INTERGENIC			
SNP_14975_A_17292313	NC_021162.1	Ca_Kabuli_Chr03	17292313	TT	GG	GG	INTERGENIC			
SNP_14976_A_17311848	NC_021162.1	Ca_Kabuli_Chr03	17311848	TT	AA	AA	INTERGENIC			
SNP_14977_A_17353994	NC_021162.1	Ca_Kabuli_Chr03	17353994	TT	AA	AA	URR	101495194	laccase-17-like	
SNP_14978_A_17374301	NC_021162.1	Ca_Kabuli_Chr03	17374301	TT	AA	AA	INTERGENIC			
SNP_14979_A_17389778	NC_021162.1	Ca_Kabuli_Chr03	17389778	AA	CC	CC	INTERGENIC			
SNP_14981_A_17411303	NC_021162.1	Ca_Kabuli_Chr03	17411303	GG	AA	AA	INTERGENIC			
SNP_14982_A_17491556	NC_021162.1	Ca_Kabuli_Chr03	17491556	GG	AA	AA	INTERGENIC			
SNP_14984_A_17491909	NC_021162.1	Ca_Kabuli_Chr03	17491909	AA	TT	TT	INTERGENIC			
SNP_14985_A_17491910	NC_021162.1	Ca_Kabuli_Chr03	17491910	AA	TT	TT	INTERGENIC			
SNP_14986_A_17491911	NC_021162.1	Ca_Kabuli_Chr03	17491911	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_14987_A_17491912	NC_021162.1	Ca_Kabuli_Chr03	17491912	AA	TT	TT	INTERGENIC		
SNP_14988_A_17491928	NC_021162.1	Ca_Kabuli_Chr03	17491928	AA	GG	GG	INTERGENIC		
SNP_14989_A_17492106	NC_021162.1	Ca_Kabuli_Chr03	17492106	TT	CC	CC	INTERGENIC		
SNP_14990_A_17492210	NC_021162.1	Ca_Kabuli_Chr03	17492210	TT	AA	AA	INTERGENIC		
SNP_14991_A_17492211	NC_021162.1	Ca_Kabuli_Chr03	17492211	CC	TT	TT	INTERGENIC		
SNP_14992_A_17499157	NC_021162.1	Ca_Kabuli_Chr03	17499157	TT	GG	GG	INTERGENIC		
SNP_14993_A_17506140	NC_021162.1	Ca_Kabuli_Chr03	17506140	TT	CC	CC	INTERGENIC		
SNP_14994_A_17506523	NC_021162.1	Ca_Kabuli_Chr03	17506523	CC	TT	TT	INTERGENIC		
SNP_14995_A_17506610	NC_021162.1	Ca_Kabuli_Chr03	17506610	AA	GG	GG	INTERGENIC		
SNP_14996_A_17508913	NC_021162.1	Ca_Kabuli_Chr03	17508913	CC	AA	AA	INTERGENIC		
SNP_14997_A_17536193	NC_021162.1	Ca_Kabuli_Chr03	17536193	AA	GG	GG	INTERGENIC		
SNP_14998_A_17571259	NC_021162.1	Ca_Kabuli_Chr03	17571259	CC	TT	TT	URR	101498238	glycine-rich protein DOT1
SNP_14999_A_17571290	NC_021162.1	Ca_Kabuli_Chr03	17571290	AA	CC	CC	URR	101498238	glycine-rich protein DOT1
SNP_15000_A_17571291	NC_021162.1	Ca_Kabuli_Chr03	17571291	AA	CC	CC	URR	101498238	glycine-rich protein DOT1
SNP_15002_A_17580757	NC_021162.1	Ca_Kabuli_Chr03	17580757	GG	AA	AA	URR	101501667	serine/threonine-protein phosphatase 7 long form homolog
SNP_15003_A_17601044	NC_021162.1	Ca_Kabuli_Chr03	17601044	TT	CC	CC	INTERGENIC		
SNP_15004_A_17601352	NC_021162.1	Ca_Kabuli_Chr03	17601352	GG	AA	AA	INTERGENIC		
SNP_15005_A_17601370	NC_021162.1	Ca_Kabuli_Chr03	17601370	TT	CC	CC	INTERGENIC		
SNP_15006_A_17601444	NC_021162.1	Ca_Kabuli_Chr03	17601444	AA	GG	GG	INTERGENIC		
SNP_15008_A_17679172	NC_021162.1	Ca_Kabuli_Chr03	17679172	AA	GG	GG	INTERGENIC		
SNP_15009_A_17679196	NC_021162.1	Ca_Kabuli_Chr03	17679196	CC	AA	AA	INTERGENIC		
SNP_15010_A_17693298	NC_021162.1	Ca_Kabuli_Chr03	17693298	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15011_A_17752903	NC_021162.1	Ca_Kabuli_Chr03	17752903	TT	CC	CC	INTERGENIC			
SNP_15012_A_17756027	NC_021162.1	Ca_Kabuli_Chr03	17756027	TT	CC	CC	INTERGENIC			
SNP_15013_A_17756132	NC_021162.1	Ca_Kabuli_Chr03	17756132	GG	AA	AA	INTERGENIC			
SNP_15014_A_17756149	NC_021162.1	Ca_Kabuli_Chr03	17756149	GG	AA	AA	INTERGENIC			
SNP_15015_A_17756166	NC_021162.1	Ca_Kabuli_Chr03	17756166	AA	GG	GG	INTERGENIC			
SNP_15016_A_17756182	NC_021162.1	Ca_Kabuli_Chr03	17756182	AA	TT	TT	INTERGENIC			
SNP_15017_A_17756186	NC_021162.1	Ca_Kabuli_Chr03	17756186	TT	CC	CC	INTERGENIC			
SNP_15018_A_17756200	NC_021162.1	Ca_Kabuli_Chr03	17756200	CC	TT	TT	INTERGENIC			
SNP_15019_A_17756242	NC_021162.1	Ca_Kabuli_Chr03	17756242	TT	CC	CC	INTERGENIC			
SNP_15020_A_17756254	NC_021162.1	Ca_Kabuli_Chr03	17756254	CC	TT	TT	INTERGENIC			
SNP_15021_A_17756258	NC_021162.1	Ca_Kabuli_Chr03	17756258	AA	GG	GG	INTERGENIC			
SNP_15022_A_17756262	NC_021162.1	Ca_Kabuli_Chr03	17756262	CC	TT	TT	INTERGENIC			
SNP_15023_A_17756292	NC_021162.1	Ca_Kabuli_Chr03	17756292	TT	CC	CC	INTERGENIC			
SNP_15024_A_17756301	NC_021162.1	Ca_Kabuli_Chr03	17756301	TT	CC	CC	INTERGENIC			
SNP_15025_A_17756312	NC_021162.1	Ca_Kabuli_Chr03	17756312	CC	TT	TT	INTERGENIC			
SNP_15026_A_17756346	NC_021162.1	Ca_Kabuli_Chr03	17756346	CC	TT	TT	INTERGENIC			
SNP_15027_A_17756423	NC_021162.1	Ca_Kabuli_Chr03	17756423	CC	TT	TT	INTERGENIC			
SNP_15028_A_17756440	NC_021162.1	Ca_Kabuli_Chr03	17756440	AA	GG	GG	INTERGENIC			
SNP_15029_A_17756470	NC_021162.1	Ca_Kabuli_Chr03	17756470	CC	TT	TT	INTERGENIC			
SNP_15030_A_17756514	NC_021162.1	Ca_Kabuli_Chr03	17756514	AA	GG	GG	INTERGENIC			
SNP_15031_A_17756522	NC_021162.1	Ca_Kabuli_Chr03	17756522	GG	TT	TT	INTERGENIC			
SNP_15032_A_17756574	NC_021162.1	Ca_Kabuli_Chr03	17756574	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15033_A_17756717	NC_021162.1	Ca_Kabuli_Chr03	17756717	TT	CC	CC	INTERGENIC		
SNP_15034_A_17757593	NC_021162.1	Ca_Kabuli_Chr03	17757593	GG	AA	AA	INTERGENIC		
SNP_15035_A_17805415	NC_021162.1	Ca_Kabuli_Chr03	17805415	AA	GG	GG	INTRON	101504992	metallothionein-like protein 2
SNP_15036_A_17805470	NC_021162.1	Ca_Kabuli_Chr03	17805470	GG	AA	AA	INTRON	101504992	metallothionein-like protein 2
SNP_15038_A_17849148	NC_021162.1	Ca_Kabuli_Chr03	17849148	GG	AA	AA	INTRON	101511621	probable sugar phosphate/phosphate translocator At5g25400
SNP_15039_A_17849153	NC_021162.1	Ca_Kabuli_Chr03	17849153	AA	GG	GG	INTRON	101511621	probable sugar phosphate/phosphate translocator At5g25400
SNP_15040_A_17874816	NC_021162.1	Ca_Kabuli_Chr03	17874816	GG	TT	TT	INTERGENIC		
SNP_15042_A_17940689	NC_021162.1	Ca_Kabuli_Chr03	17940689	TT	GG	GG	URR	101507474	transcription factor AS1
SNP_15044_A_17941602	NC_021162.1	Ca_Kabuli_Chr03	17941602	CC	TT	TT	INTERGENIC		
SNP_15045_A_17997417	NC_021162.1	Ca_Kabuli_Chr03	17997417	CC	TT	TT	INTERGENIC		
SNP_15047_A_18019162	NC_021162.1	Ca_Kabuli_Chr03	18019162	CC	TT	TT	INTERGENIC		
SNP_15048_A_18019223	NC_021162.1	Ca_Kabuli_Chr03	18019223	TT	CC	CC	INTERGENIC		
SNP_15049_A_18019436	NC_021162.1	Ca_Kabuli_Chr03	18019436	GG	AA	AA	INTERGENIC		
SNP_15050_A_18019829	NC_021162.1	Ca_Kabuli_Chr03	18019829	TT	CC	CC	INTERGENIC		
SNP_15051_A_18038443	NC_021162.1	Ca_Kabuli_Chr03	18038443	CC	AA	AA	URR	101509053	inactive rhomboid protein 1-like
SNP_15052_A_18048501	NC_021162.1	Ca_Kabuli_Chr03	18048501	AA	TT	TT	URR	101509376	oxysterol-binding protein-related protein 3A-like
SNP_15053_A_18048504	NC_021162.1	Ca_Kabuli_Chr03	18048504	AA	TT	TT	URR	101509376	oxysterol-binding protein-related protein 3A-like
SNP_15054_A_18062393	NC_021162.1	Ca_Kabuli_Chr03	18062393	GG	AA	AA	INTERGENIC		
SNP_15055_A_18062402	NC_021162.1	Ca_Kabuli_Chr03	18062402	GG	CC	CC	INTERGENIC		
SNP_15056_A_18062926	NC_021162.1	Ca_Kabuli_Chr03	18062926	TT	CC	CC	INTERGENIC		
SNP_15057_A_18091869	NC_021162.1	Ca_Kabuli_Chr03	18091869	CC	TT	TT	INTERGENIC		
SNP_15058_A_18092632	NC_021162.1	Ca_Kabuli_Chr03	18092632	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15059_A_18093339	NC_021162.1	Ca_Kabuli_Chr03	18093339	CC	GG	GG	INTERGENIC			
SNP_15060_A_18128918	NC_021162.1	Ca_Kabuli_Chr03	18128918	AA	GG	GG	INTERGENIC			
SNP_15061_A_18133205	NC_021162.1	Ca_Kabuli_Chr03	18133205	GG	AA	AA	INTERGENIC			
SNP_15062_A_18133220	NC_021162.1	Ca_Kabuli_Chr03	18133220	GG	AA	AA	INTERGENIC			
SNP_15063_A_18133243	NC_021162.1	Ca_Kabuli_Chr03	18133243	GG	AA	AA	INTERGENIC			
SNP_15064_A_18133287	NC_021162.1	Ca_Kabuli_Chr03	18133287	GG	AA	AA	INTERGENIC			
SNP_15065_A_18170535	NC_021162.1	Ca_Kabuli_Chr03	18170535	CC	AA	AA	INTERGENIC			
SNP_15066_A_18170547	NC_021162.1	Ca_Kabuli_Chr03	18170547	AA	GG	GG	INTERGENIC			
SNP_15067_A_18170749	NC_021162.1	Ca_Kabuli_Chr03	18170749	GG	CC	CC	INTERGENIC			
SNP_15068_A_18170756	NC_021162.1	Ca_Kabuli_Chr03	18170756	GG	CC	CC	INTERGENIC			
SNP_15069_A_18170780	NC_021162.1	Ca_Kabuli_Chr03	18170780	AA	GG	GG	INTERGENIC			
SNP_15070_A_18170826	NC_021162.1	Ca_Kabuli_Chr03	18170826	CC	TT	TT	INTERGENIC			
SNP_15071_A_18170832	NC_021162.1	Ca_Kabuli_Chr03	18170832	AA	GG	GG	INTERGENIC			
SNP_15072_A_18170907	NC_021162.1	Ca_Kabuli_Chr03	18170907	CC	AA	AA	INTERGENIC			
SNP_15073_A_18173571	NC_021162.1	Ca_Kabuli_Chr03	18173571	AA	CC	CC	DRR	101512605	uncharacterized LOC101512605	
SNP_15074_A_18179312	NC_021162.1	Ca_Kabuli_Chr03	18179312	CC	AA	AA	URR	101512912	uncharacterized LOC101512912	
SNP_15075_A_18189875	NC_021162.1	Ca_Kabuli_Chr03	18189875	AA	CC	CC	INTERGENIC			
SNP_15076_A_18190097	NC_021162.1	Ca_Kabuli_Chr03	18190097	CC	TT	TT	INTERGENIC			
SNP_15077_A_18190102	NC_021162.1	Ca_Kabuli_Chr03	18190102	AA	TT	TT	INTERGENIC			
SNP_15078_A_18190147	NC_021162.1	Ca_Kabuli_Chr03	18190147	CC	TT	TT	INTERGENIC			
SNP_15079_A_18190169	NC_021162.1	Ca_Kabuli_Chr03	18190169	TT	CC	CC	INTERGENIC			
SNP_15080_A_18190286	NC_021162.1	Ca_Kabuli_Chr03	18190286	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15081_A_18190333	NC_021162.1	Ca_Kabuli_Chr03	18190333	TT	GG	GG	INTERGENIC			
SNP_15082_A_18190624	NC_021162.1	Ca_Kabuli_Chr03	18190624	TT	AA	AA	INTERGENIC			
SNP_15083_A_18190635	NC_021162.1	Ca_Kabuli_Chr03	18190635	AA	CC	CC	INTERGENIC			
SNP_15085_A_18191058	NC_021162.1	Ca_Kabuli_Chr03	18191058	AA	GG	GG	INTERGENIC			
SNP_15086_A_18191090	NC_021162.1	Ca_Kabuli_Chr03	18191090	AA	TT	TT	INTERGENIC			
SNP_15087_A_18191095	NC_021162.1	Ca_Kabuli_Chr03	18191095	TT	AA	AA	INTERGENIC			
SNP_15088_A_18191101	NC_021162.1	Ca_Kabuli_Chr03	18191101	CC	TT	TT	INTERGENIC			
SNP_15089_A_18191128	NC_021162.1	Ca_Kabuli_Chr03	18191128	CC	TT	TT	INTERGENIC			
SNP_15090_A_18191136	NC_021162.1	Ca_Kabuli_Chr03	18191136	CC	TT	TT	INTERGENIC			
SNP_15091_A_18191409	NC_021162.1	Ca_Kabuli_Chr03	18191409	AA	GG	GG	INTERGENIC			
SNP_15092_A_18191433	NC_021162.1	Ca_Kabuli_Chr03	18191433	AA	GG	GG	INTERGENIC			
SNP_15093_A_18192514	NC_021162.1	Ca_Kabuli_Chr03	18192514	TT	CC	CC	INTERGENIC			
SNP_15094_A_18196771	NC_021162.1	Ca_Kabuli_Chr03	18196771	TT	GG	GG	INTERGENIC			
SNP_15095_A_18197026	NC_021162.1	Ca_Kabuli_Chr03	18197026	CC	TT	TT	INTERGENIC			
SNP_15097_A_18253227	NC_021162.1	Ca_Kabuli_Chr03	18253227	AA	GG	GG	INTERGENIC			
SNP_15098_A_18253280	NC_021162.1	Ca_Kabuli_Chr03	18253280	CC	TT	TT	INTERGENIC			
SNP_15099_A_18253490	NC_021162.1	Ca_Kabuli_Chr03	18253490	GG	AA	AA	INTERGENIC			
SNP_15101_A_18272752	NC_021162.1	Ca_Kabuli_Chr03	18272752	CC	TT	TT	INTERGENIC			
SNP_15102_A_18272767	NC_021162.1	Ca_Kabuli_Chr03	18272767	TT	CC	CC	INTERGENIC			
SNP_15103_A_18303044	NC_021162.1	Ca_Kabuli_Chr03	18303044	TT	CC	CC	INTERGENIC			
SNP_15104_A_18303115	NC_021162.1	Ca_Kabuli_Chr03	18303115	AA	GG	GG	INTERGENIC			
SNP_15105_A_18303404	NC_021162.1	Ca_Kabuli_Chr03	18303404	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15106_A_18303447	NC_021162.1	Ca_Kabuli_Chr03	18303447	TT	CC	CC	INTERGENIC		
SNP_15108_A_18359624	NC_021162.1	Ca_Kabuli_Chr03	18359624	CC	AA	AA	INTERGENIC		
SNP_15109_A_18434851	NC_021162.1	Ca_Kabuli_Chr03	18434851	AA	GG	GG	INTERGENIC		
SNP_15110_A_18435129	NC_021162.1	Ca_Kabuli_Chr03	18435129	GG	AA	AA	INTERGENIC		
SNP_15111_A_18435140	NC_021162.1	Ca_Kabuli_Chr03	18435140	AA	GG	GG	INTERGENIC		
SNP_15112_A_18435196	NC_021162.1	Ca_Kabuli_Chr03	18435196	TT	GG	GG	INTERGENIC		
SNP_15113_A_18491181	NC_021162.1	Ca_Kabuli_Chr03	18491181	TT	GG	GG	INTERGENIC		
SNP_15114_A_18564617	NC_021162.1	Ca_Kabuli_Chr03	18564617	TT	CC	CC	INTERGENIC		
SNP_15115_A_18574549	NC_021162.1	Ca_Kabuli_Chr03	18574549	GG	AA	AA	INTRON	101493065	uncharacterized LOC101493065
SNP_15116_A_18627331	NC_021162.1	Ca_Kabuli_Chr03	18627331	TT	AA	AA	INTERGENIC		
SNP_15118_A_18670279	NC_021162.1	Ca_Kabuli_Chr03	18670279	CC	TT	TT	INTERGENIC		
SNP_15119_A_18670290	NC_021162.1	Ca_Kabuli_Chr03	18670290	CC	TT	TT	INTERGENIC		
SNP_15120_A_18670519	NC_021162.1	Ca_Kabuli_Chr03	18670519	TT	GG	GG	INTERGENIC		
SNP_15121_A_18670749	NC_021162.1	Ca_Kabuli_Chr03	18670749	TT	GG	GG	INTERGENIC		
SNP_15123_A_18713853	NC_021162.1	Ca_Kabuli_Chr03	18713853	GG	AA	AA	URR	101496933	ATP-dependent DNA helicase PIF1-like
SNP_15124_A_18755322	NC_021162.1	Ca_Kabuli_Chr03	18755322	AA	TT	TT	INTERGENIC		
SNP_15125_A_18755323	NC_021162.1	Ca_Kabuli_Chr03	18755323	TT	GG	GG	INTERGENIC		
SNP_15126_A_18774162	NC_021162.1	Ca_Kabuli_Chr03	18774162	TT	AA	AA	INTERGENIC		
SNP_15127_A_18777587	NC_021162.1	Ca_Kabuli_Chr03	18777587	AA	CC	CC	NON_SYNONYMOUS_CODING	101497261	Unknown function
SNP_15128_A_18892078	NC_021162.1	Ca_Kabuli_Chr03	18892078	CC	TT	TT	URR	101488945	serine/threonine-protein phosphatase 7 long form homolog
SNP_15129_A_18935051	NC_021162.1	Ca_Kabuli_Chr03	18935051	AA	CC	CC	INTERGENIC		
SNP_15130_A_18935074	NC_021162.1	Ca_Kabuli_Chr03	18935074	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15131_A_18935090	NC_021162.1	Ca_Kabuli_Chr03	18935090	AA	GG	GG	INTERGENIC		
SNP_15132_A_18935277	NC_021162.1	Ca_Kabuli_Chr03	18935277	AA	GG	GG	INTERGENIC		
SNP_15133_A_18935321	NC_021162.1	Ca_Kabuli_Chr03	18935321	TT	CC	CC	INTERGENIC		
SNP_15134_A_18941761	NC_021162.1	Ca_Kabuli_Chr03	18941761	AA	GG	GG	INTERGENIC		
SNP_15136_A_18943247	NC_021162.1	Ca_Kabuli_Chr03	18943247	AA	TT	TT	INTERGENIC		
SNP_15137_A_18971268	NC_021162.1	Ca_Kabuli_Chr03	18971268	GG	AA	AA	INTERGENIC		
SNP_15138_A_19007108	NC_021162.1	Ca_Kabuli_Chr03	19007108	TT	GG	GG	INTERGENIC		
SNP_15139_A_19008740	NC_021162.1	Ca_Kabuli_Chr03	19008740	TT	AA	AA	INTERGENIC		
SNP_15140_A_19008742	NC_021162.1	Ca_Kabuli_Chr03	19008742	AA	TT	TT	INTERGENIC		
SNP_15141_A_19008772	NC_021162.1	Ca_Kabuli_Chr03	19008772	CC	TT	TT	INTERGENIC		
SNP_15142_A_19008774	NC_021162.1	Ca_Kabuli_Chr03	19008774	CC	AA	AA	INTERGENIC		
SNP_15143_A_19008775	NC_021162.1	Ca_Kabuli_Chr03	19008775	AA	CC	CC	INTERGENIC		
SNP_15144_A_19036568	NC_021162.1	Ca_Kabuli_Chr03	19036568	AA	GG	GG	INTERGENIC		
SNP_15145_A_19036579	NC_021162.1	Ca_Kabuli_Chr03	19036579	GG	TT	TT	INTERGENIC		
SNP_15146_A_19054998	NC_021162.1	Ca_Kabuli_Chr03	19054998	AA	GG	GG	URR	101503592	protein NRT1/ PTR FAMILY 8.1-like
SNP_15149_A_19089346	NC_021162.1	Ca_Kabuli_Chr03	19089346	TT	CC	CC	NON_SYNONYMOUS_CODING	101490564	uncharacterized LOC101490564
SNP_15150_A_19089417	NC_021162.1	Ca_Kabuli_Chr03	19089417	TT	CC	CC	NON_SYNONYMOUS_CODING	101490564	uncharacterized LOC101490564
SNP_15151_A_19089456	NC_021162.1	Ca_Kabuli_Chr03	19089456	TT	GG	GG	NON_SYNONYMOUS_CODING	101490564	uncharacterized LOC101490564
SNP_15152_A_19089483	NC_021162.1	Ca_Kabuli_Chr03	19089483	AA	GG	GG	NON_SYNONYMOUS_CODING	101490564	uncharacterized LOC101490564
SNP_15153_A_19089515	NC_021162.1	Ca_Kabuli_Chr03	19089515	GG	AA	AA	NON_SYNONYMOUS_CODING	101490564	uncharacterized LOC101490564
SNP_15154_A_19089740	NC_021162.1	Ca_Kabuli_Chr03	19089740	CC	AA	AA	INTRON	101490564	uncharacterized LOC101490564
SNP_15156_A_19148778	NC_021162.1	Ca_Kabuli_Chr03	19148778	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15158_A_19164903	NC_021162.1	Ca_Kabuli_Chr03	19164903	AA	GG	GG	INTERGENIC		
SNP_15159_A_19176023	NC_021162.1	Ca_Kabuli_Chr03	19176023	TT	CC	CC	INTRON	101505408	glycerol-3-phosphate 2-O-acyltransferase 6-like
SNP_15160_A_19176024	NC_021162.1	Ca_Kabuli_Chr03	19176024	AA	CC	CC	INTRON	101505408	glycerol-3-phosphate 2-O-acyltransferase 6-like
SNP_15161_A_19189185	NC_021162.1	Ca_Kabuli_Chr03	19189185	AA	GG	GG	INTERGENIC		
SNP_15162_A_19196511	NC_021162.1	Ca_Kabuli_Chr03	19196511	AA	TT	TT	INTERGENIC		
SNP_15163_A_19196834	NC_021162.1	Ca_Kabuli_Chr03	19196834	AA	CC	CC	INTERGENIC		
SNP_15164_A_19196883	NC_021162.1	Ca_Kabuli_Chr03	19196883	TT	CC	CC	INTERGENIC		
SNP_15165_A_19198407	NC_021162.1	Ca_Kabuli_Chr03	19198407	CC	GG	GG	INTERGENIC		
SNP_15166_A_19198551	NC_021162.1	Ca_Kabuli_Chr03	19198551	GG	AA	AA	INTERGENIC		
SNP_15167_A_19198639	NC_021162.1	Ca_Kabuli_Chr03	19198639	TT	GG	GG	INTERGENIC		
SNP_15168_A_19198654	NC_021162.1	Ca_Kabuli_Chr03	19198654	TT	CC	CC	INTERGENIC		
SNP_15169_A_19198771	NC_021162.1	Ca_Kabuli_Chr03	19198771	TT	CC	CC	INTERGENIC		
SNP_15170_A_19198864	NC_021162.1	Ca_Kabuli_Chr03	19198864	TT	CC	CC	INTERGENIC		
SNP_15171_A_19198953	NC_021162.1	Ca_Kabuli_Chr03	19198953	TT	CC	CC	INTERGENIC		
SNP_15172_A_19198990	NC_021162.1	Ca_Kabuli_Chr03	19198990	TT	GG	GG	INTERGENIC		
SNP_15173_A_19199019	NC_021162.1	Ca_Kabuli_Chr03	19199019	AA	CC	CC	INTERGENIC		
SNP_15174_A_19206096	NC_021162.1	Ca_Kabuli_Chr03	19206096	AA	TT	TT	INTERGENIC		
SNP_15175_A_19230723	NC_021162.1	Ca_Kabuli_Chr03	19230723	AA	GG	GG	INTERGENIC		
SNP_15176_A_19314754	NC_021162.1	Ca_Kabuli_Chr03	19314754	GG	CC	CC	INTERGENIC		
SNP_15177_A_19356444	NC_021162.1	Ca_Kabuli_Chr03	19356444	AA	GG	GG	URR	101507884	putative serine/threonine-protein kinase
SNP_15178_A_19356488	NC_021162.1	Ca_Kabuli_Chr03	19356488	AA	GG	GG	URR	101507884	putative serine/threonine-protein kinase
SNP_15179_A_19357461	NC_021162.1	Ca_Kabuli_Chr03	19357461	AA	CC	CC	URR	101508421	uncharacterized LOC101508421

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15180_A_19357487	NC_021162.1	Ca_Kabuli_Chr03	19357487	CC	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15181_A_19357545	NC_021162.1	Ca_Kabuli_Chr03	19357545	AA	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15182_A_19357549	NC_021162.1	Ca_Kabuli_Chr03	19357549	TT	CC	CC	URR	101508421	uncharacterized LOC101508421
SNP_15183_A_19357721	NC_021162.1	Ca_Kabuli_Chr03	19357721	CC	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15184_A_19357783	NC_021162.1	Ca_Kabuli_Chr03	19357783	TT	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15185_A_19357788	NC_021162.1	Ca_Kabuli_Chr03	19357788	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15186_A_19357930	NC_021162.1	Ca_Kabuli_Chr03	19357930	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15187_A_19357972	NC_021162.1	Ca_Kabuli_Chr03	19357972	TT	CC	CC	URR	101508421	uncharacterized LOC101508421
SNP_15188_A_19358021	NC_021162.1	Ca_Kabuli_Chr03	19358021	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15189_A_19358108	NC_021162.1	Ca_Kabuli_Chr03	19358108	AA	GG	GG	URR	101508421	uncharacterized LOC101508421
SNP_15190_A_19358186	NC_021162.1	Ca_Kabuli_Chr03	19358186	AA	GG	GG	URR	101508421	uncharacterized LOC101508421
SNP_15191_A_19358343	NC_021162.1	Ca_Kabuli_Chr03	19358343	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15192_A_19358347	NC_021162.1	Ca_Kabuli_Chr03	19358347	TT	CC	CC	URR	101508421	uncharacterized LOC101508421
SNP_15193_A_19358410	NC_021162.1	Ca_Kabuli_Chr03	19358410	GG	CC	CC	URR	101508421	uncharacterized LOC101508421
SNP_15194_A_19358422	NC_021162.1	Ca_Kabuli_Chr03	19358422	AA	CC	CC	URR	101508421	uncharacterized LOC101508421
SNP_15196_A_19358678	NC_021162.1	Ca_Kabuli_Chr03	19358678	GG	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15197_A_19358710	NC_021162.1	Ca_Kabuli_Chr03	19358710	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15198_A_19358718	NC_021162.1	Ca_Kabuli_Chr03	19358718	GG	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15199_A_19358734	NC_021162.1	Ca_Kabuli_Chr03	19358734	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15200_A_19358745	NC_021162.1	Ca_Kabuli_Chr03	19358745	CC	TT	TT	URR	101508421	uncharacterized LOC101508421
SNP_15201_A_19358834	NC_021162.1	Ca_Kabuli_Chr03	19358834	CC	AA	AA	URR	101508421	uncharacterized LOC101508421
SNP_15202_A_19358877	NC_021162.1	Ca_Kabuli_Chr03	19358877	CC	GG	GG	DRR	101491208	zinc finger MYM-type protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15203_A_19358880	NC_021162.1	Ca_Kabuli_Chr03	19358880	TT	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15204_A_19358954	NC_021162.1	Ca_Kabuli_Chr03	19358954	AA	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15205_A_19358967	NC_021162.1	Ca_Kabuli_Chr03	19358967	GG	AA	AA	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15206_A_19358993	NC_021162.1	Ca_Kabuli_Chr03	19358993	AA	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15208_A_19359053	NC_021162.1	Ca_Kabuli_Chr03	19359053	GG	AA	AA	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15209_A_19359059	NC_021162.1	Ca_Kabuli_Chr03	19359059	TT	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15210_A_19359111	NC_021162.1	Ca_Kabuli_Chr03	19359111	CC	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15211_A_19359147	NC_021162.1	Ca_Kabuli_Chr03	19359147	GG	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15212_A_19359151	NC_021162.1	Ca_Kabuli_Chr03	19359151	GG	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15213_A_19359153	NC_021162.1	Ca_Kabuli_Chr03	19359153	GG	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15214_A_19359188	NC_021162.1	Ca_Kabuli_Chr03	19359188	CC	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15215_A_19359189	NC_021162.1	Ca_Kabuli_Chr03	19359189	TT	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15216_A_19359254	NC_021162.1	Ca_Kabuli_Chr03	19359254	AA	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15217_A_19359309	NC_021162.1	Ca_Kabuli_Chr03	19359309	AA	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15218_A_19359310	NC_021162.1	Ca_Kabuli_Chr03	19359310	GG	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15220_A_19359455	NC_021162.1	Ca_Kabuli_Chr03	19359455	AA	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15221_A_19359494	NC_021162.1	Ca_Kabuli_Chr03	19359494	CC	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15222_A_19359510	NC_021162.1	Ca_Kabuli_Chr03	19359510	AA	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15223_A_19359522	NC_021162.1	Ca_Kabuli_Chr03	19359522	CC	TT	TT	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15224_A_19359528	NC_021162.1	Ca_Kabuli_Chr03	19359528	TT	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15225_A_19359544	NC_021162.1	Ca_Kabuli_Chr03	19359544	TT	CC	CC	DRR		101491208	zinc finger MYM-type protein 1-like
SNP_15226_A_19359576	NC_021162.1	Ca_Kabuli_Chr03	19359576	TT	GG	GG	DRR		101491208	zinc finger MYM-type protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15227_A_19359580	NC_021162.1	Ca_Kabuli_Chr03	19359580	CC	TT	TT	DRR	101491208	zinc finger MYM-type protein 1-like
SNP_15228_A_19359641	NC_021162.1	Ca_Kabuli_Chr03	19359641	GG	AA	AA	DRR	101491208	zinc finger MYM-type protein 1-like
SNP_15229_A_19359749	NC_021162.1	Ca_Kabuli_Chr03	19359749	TT	CC	CC	DRR	101491208	zinc finger MYM-type protein 1-like
SNP_15230_A_19359992	NC_021162.1	Ca_Kabuli_Chr03	19359992	CC	TT	TT	INTERGENIC		
SNP_15231_A_19360046	NC_021162.1	Ca_Kabuli_Chr03	19360046	AA	GG	GG	INTERGENIC		
SNP_15232_A_19360153	NC_021162.1	Ca_Kabuli_Chr03	19360153	GG	TT	TT	INTERGENIC		
SNP_15233_A_19360198	NC_021162.1	Ca_Kabuli_Chr03	19360198	AA	CC	CC	INTERGENIC		
SNP_15234_A_19361040	NC_021162.1	Ca_Kabuli_Chr03	19361040	GG	TT	TT	INTERGENIC		
SNP_15235_A_19361361	NC_021162.1	Ca_Kabuli_Chr03	19361361	GG	AA	AA	INTERGENIC		
SNP_15236_A_19361640	NC_021162.1	Ca_Kabuli_Chr03	19361640	AA	GG	GG	INTERGENIC		
SNP_15237_A_19361653	NC_021162.1	Ca_Kabuli_Chr03	19361653	AA	GG	GG	INTERGENIC		
SNP_15238_A_19361968	NC_021162.1	Ca_Kabuli_Chr03	19361968	TT	AA	AA	INTERGENIC		
SNP_15239_A_19362033	NC_021162.1	Ca_Kabuli_Chr03	19362033	TT	AA	AA	INTERGENIC		
SNP_15240_A_19362034	NC_021162.1	Ca_Kabuli_Chr03	19362034	GG	AA	AA	INTERGENIC		
SNP_15241_A_19362035	NC_021162.1	Ca_Kabuli_Chr03	19362035	CC	AA	AA	INTERGENIC		
SNP_15242_A_19362043	NC_021162.1	Ca_Kabuli_Chr03	19362043	AA	TT	TT	INTERGENIC		
SNP_15243_A_19362069	NC_021162.1	Ca_Kabuli_Chr03	19362069	TT	CC	CC	INTERGENIC		
SNP_15244_A_19366628	NC_021162.1	Ca_Kabuli_Chr03	19366628	TT	CC	CC	INTERGENIC		
SNP_15245_A_19367244	NC_021162.1	Ca_Kabuli_Chr03	19367244	CC	TT	TT	URR	101508736	uncharacterized LOC101508736
SNP_15246_A_19367265	NC_021162.1	Ca_Kabuli_Chr03	19367265	GG	AA	AA	URR	101508736	uncharacterized LOC101508736
SNP_15247_A_19367432	NC_021162.1	Ca_Kabuli_Chr03	19367432	GG	AA	AA	URR	101508736	uncharacterized LOC101508736
SNP_15248_A_19367540	NC_021162.1	Ca_Kabuli_Chr03	19367540	AA	TT	TT	URR	101508736	uncharacterized LOC101508736

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15249_A_19367596	NC_021162.1	Ca_Kabuli_Chr03	19367596	AA	TT	TT	URR	101508736	uncharacterized LOC101508736
SNP_15250_A_19367688	NC_021162.1	Ca_Kabuli_Chr03	19367688	AA	TT	TT	URR	101508736	uncharacterized LOC101508736
SNP_15251_A_19367756	NC_021162.1	Ca_Kabuli_Chr03	19367756	TT	CC	CC	URR	101508736	uncharacterized LOC101508736
SNP_15252_A_19367815	NC_021162.1	Ca_Kabuli_Chr03	19367815	CC	AA	AA	URR	101508736	uncharacterized LOC101508736
SNP_15253_A_19367941	NC_021162.1	Ca_Kabuli_Chr03	19367941	CC	TT	TT	URR	101508736	uncharacterized LOC101508736
SNP_15254_A_19368046	NC_021162.1	Ca_Kabuli_Chr03	19368046	AA	CC	CC	URR	101508736	uncharacterized LOC101508736
SNP_15255_A_19368421	NC_021162.1	Ca_Kabuli_Chr03	19368421	AA	GG	GG	URR	101508736	uncharacterized LOC101508736
SNP_15257_A_19368460	NC_021162.1	Ca_Kabuli_Chr03	19368460	CC	AA	AA	URR	101508736	uncharacterized LOC101508736
SNP_15258_A_19368514	NC_021162.1	Ca_Kabuli_Chr03	19368514	AA	TT	TT	URR	101508736	uncharacterized LOC101508736
SNP_15259_A_19368543	NC_021162.1	Ca_Kabuli_Chr03	19368543	TT	AA	AA	URR	101508736	uncharacterized LOC101508736
SNP_15261_A_19368598	NC_021162.1	Ca_Kabuli_Chr03	19368598	AA	GG	GG	URR	101508736	uncharacterized LOC101508736
SNP_15262_A_19368881	NC_021162.1	Ca_Kabuli_Chr03	19368881	TT	AA	AA	INTERGENIC		
SNP_15264_A_19369150	NC_021162.1	Ca_Kabuli_Chr03	19369150	TT	GG	GG	INTERGENIC		
SNP_15265_A_19369196	NC_021162.1	Ca_Kabuli_Chr03	19369196	GG	AA	AA	INTERGENIC		
SNP_15266_A_19369257	NC_021162.1	Ca_Kabuli_Chr03	19369257	GG	CC	CC	INTERGENIC		
SNP_15267_A_19369312	NC_021162.1	Ca_Kabuli_Chr03	19369312	AA	TT	TT	INTERGENIC		
SNP_15268_A_19369587	NC_021162.1	Ca_Kabuli_Chr03	19369587	CC	TT	TT	INTERGENIC		
SNP_15269_A_19369590	NC_021162.1	Ca_Kabuli_Chr03	19369590	AA	CC	CC	INTERGENIC		
SNP_15270_A_19369627	NC_021162.1	Ca_Kabuli_Chr03	19369627	AA	GG	GG	INTERGENIC		
SNP_15271_A_19370429	NC_021162.1	Ca_Kabuli_Chr03	19370429	AA	CC	CC	INTERGENIC		
SNP_15272_A_19370503	NC_021162.1	Ca_Kabuli_Chr03	19370503	TT	AA	AA	INTERGENIC		
SNP_15273_A_19370827	NC_021162.1	Ca_Kabuli_Chr03	19370827	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15274_A_19370857	NC_021162.1	Ca_Kabuli_Chr03	19370857	GG	TT	TT	INTERGENIC			
SNP_15276_A_19372850	NC_021162.1	Ca_Kabuli_Chr03	19372850	GG	AA	AA	INTERGENIC			
SNP_15277_A_19372913	NC_021162.1	Ca_Kabuli_Chr03	19372913	GG	AA	AA	INTERGENIC			
SNP_15278_A_19373237	NC_021162.1	Ca_Kabuli_Chr03	19373237	AA	TT	TT	INTERGENIC			
SNP_15279_A_19373371	NC_021162.1	Ca_Kabuli_Chr03	19373371	TT	AA	AA	INTERGENIC			
SNP_15280_A_19373419	NC_021162.1	Ca_Kabuli_Chr03	19373419	TT	CC	CC	INTERGENIC			
SNP_15281_A_19373446	NC_021162.1	Ca_Kabuli_Chr03	19373446	CC	GG	GG	INTERGENIC			
SNP_15282_A_19373558	NC_021162.1	Ca_Kabuli_Chr03	19373558	GG	AA	AA	INTERGENIC			
SNP_15283_A_19373579	NC_021162.1	Ca_Kabuli_Chr03	19373579	CC	TT	TT	INTERGENIC			
SNP_15284_A_19373625	NC_021162.1	Ca_Kabuli_Chr03	19373625	CC	AA	AA	INTERGENIC			
SNP_15285_A_19373629	NC_021162.1	Ca_Kabuli_Chr03	19373629	TT	CC	CC	INTERGENIC			
SNP_15287_A_19373968	NC_021162.1	Ca_Kabuli_Chr03	19373968	AA	GG	GG	INTERGENIC			
SNP_15288_A_19374000	NC_021162.1	Ca_Kabuli_Chr03	19374000	AA	TT	TT	INTERGENIC			
SNP_15289_A_19374012	NC_021162.1	Ca_Kabuli_Chr03	19374012	TT	CC	CC	INTERGENIC			
SNP_15290_A_19374013	NC_021162.1	Ca_Kabuli_Chr03	19374013	TT	CC	CC	INTERGENIC			
SNP_15291_A_19374024	NC_021162.1	Ca_Kabuli_Chr03	19374024	GG	TT	TT	INTERGENIC			
SNP_15292_A_19374038	NC_021162.1	Ca_Kabuli_Chr03	19374038	AA	CC	CC	INTERGENIC			
SNP_15293_A_19374046	NC_021162.1	Ca_Kabuli_Chr03	19374046	AA	TT	TT	INTERGENIC			
SNP_15294_A_19374051	NC_021162.1	Ca_Kabuli_Chr03	19374051	CC	TT	TT	INTERGENIC			
SNP_15295_A_19374066	NC_021162.1	Ca_Kabuli_Chr03	19374066	GG	AA	AA	INTERGENIC			
SNP_15296_A_19374102	NC_021162.1	Ca_Kabuli_Chr03	19374102	TT	AA	AA	INTERGENIC			
SNP_15297_A_19374150	NC_021162.1	Ca_Kabuli_Chr03	19374150	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15298_A_19374352	NC_021162.1	Ca_Kabuli_Chr03	19374352	GG	TT	TT	INTERGENIC			
SNP_15299_A_19374538	NC_021162.1	Ca_Kabuli_Chr03	19374538	CC	AA	AA	INTERGENIC			
SNP_15300_A_19374558	NC_021162.1	Ca_Kabuli_Chr03	19374558	CC	TT	TT	INTERGENIC			
SNP_15301_A_19374606	NC_021162.1	Ca_Kabuli_Chr03	19374606	CC	TT	TT	INTERGENIC			
SNP_15302_A_19374611	NC_021162.1	Ca_Kabuli_Chr03	19374611	TT	GG	GG	INTERGENIC			
SNP_15303_A_19374638	NC_021162.1	Ca_Kabuli_Chr03	19374638	TT	GG	GG	INTERGENIC			
SNP_15304_A_19374732	NC_021162.1	Ca_Kabuli_Chr03	19374732	CC	GG	GG	INTERGENIC			
SNP_15305_A_19375012	NC_021162.1	Ca_Kabuli_Chr03	19375012	TT	AA	AA	INTERGENIC			
SNP_15307_A_19375191	NC_021162.1	Ca_Kabuli_Chr03	19375191	AA	CC	CC	INTERGENIC			
SNP_15308_A_19375219	NC_021162.1	Ca_Kabuli_Chr03	19375219	TT	AA	AA	INTERGENIC			
SNP_15309_A_19375236	NC_021162.1	Ca_Kabuli_Chr03	19375236	GG	AA	AA	INTERGENIC			
SNP_15310_A_19375495	NC_021162.1	Ca_Kabuli_Chr03	19375495	TT	CC	CC	INTERGENIC			
SNP_15311_A_19375505	NC_021162.1	Ca_Kabuli_Chr03	19375505	TT	GG	GG	INTERGENIC			
SNP_15312_A_19375539	NC_021162.1	Ca_Kabuli_Chr03	19375539	AA	GG	GG	INTERGENIC			
SNP_15314_A_19376104	NC_021162.1	Ca_Kabuli_Chr03	19376104	CC	AA	AA	INTERGENIC			
SNP_15315_A_19376166	NC_021162.1	Ca_Kabuli_Chr03	19376166	TT	GG	GG	INTERGENIC			
SNP_15316_A_19376201	NC_021162.1	Ca_Kabuli_Chr03	19376201	CC	TT	TT	INTERGENIC			
SNP_15317_A_19376255	NC_021162.1	Ca_Kabuli_Chr03	19376255	CC	TT	TT	INTERGENIC			
SNP_15318_A_19376296	NC_021162.1	Ca_Kabuli_Chr03	19376296	GG	AA	AA	INTERGENIC			
SNP_15319_A_19376356	NC_021162.1	Ca_Kabuli_Chr03	19376356	CC	TT	TT	INTERGENIC			
SNP_15320_A_19376562	NC_021162.1	Ca_Kabuli_Chr03	19376562	AA	GG	GG	INTERGENIC			
SNP_15321_A_19376579	NC_021162.1	Ca_Kabuli_Chr03	19376579	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15322_A_19376603	NC_021162.1	Ca_Kabuli_Chr03	19376603	TT	AA	AA	INTERGENIC			
SNP_15323_A_19379659	NC_021162.1	Ca_Kabuli_Chr03	19379659	GG	TT	TT	INTERGENIC			
SNP_15324_A_19380292	NC_021162.1	Ca_Kabuli_Chr03	19380292	CC	TT	TT	INTERGENIC			
SNP_15325_A_19380371	NC_021162.1	Ca_Kabuli_Chr03	19380371	CC	TT	TT	INTERGENIC			
SNP_15326_A_19380434	NC_021162.1	Ca_Kabuli_Chr03	19380434	TT	GG	GG	INTERGENIC			
SNP_15327_A_19380490	NC_021162.1	Ca_Kabuli_Chr03	19380490	GG	AA	AA	INTERGENIC			
SNP_15328_A_19380514	NC_021162.1	Ca_Kabuli_Chr03	19380514	CC	TT	TT	INTERGENIC			
SNP_15329_A_19380519	NC_021162.1	Ca_Kabuli_Chr03	19380519	TT	CC	CC	INTERGENIC			
SNP_15330_A_19380582	NC_021162.1	Ca_Kabuli_Chr03	19380582	TT	CC	CC	INTERGENIC			
SNP_15331_A_19380625	NC_021162.1	Ca_Kabuli_Chr03	19380625	GG	AA	AA	INTERGENIC			
SNP_15332_A_19380659	NC_021162.1	Ca_Kabuli_Chr03	19380659	TT	CC	CC	INTERGENIC			
SNP_15333_A_19380721	NC_021162.1	Ca_Kabuli_Chr03	19380721	TT	CC	CC	INTERGENIC			
SNP_15334_A_19380769	NC_021162.1	Ca_Kabuli_Chr03	19380769	TT	CC	CC	INTERGENIC			
SNP_15335_A_19380799	NC_021162.1	Ca_Kabuli_Chr03	19380799	TT	CC	CC	INTERGENIC			
SNP_15336_A_19380962	NC_021162.1	Ca_Kabuli_Chr03	19380962	GG	TT	TT	INTERGENIC			
SNP_15337_A_19380966	NC_021162.1	Ca_Kabuli_Chr03	19380966	TT	CC	CC	INTERGENIC			
SNP_15338_A_19381107	NC_021162.1	Ca_Kabuli_Chr03	19381107	GG	AA	AA	INTERGENIC			
SNP_15339_A_19381139	NC_021162.1	Ca_Kabuli_Chr03	19381139	GG	AA	AA	INTERGENIC			
SNP_15340_A_19381306	NC_021162.1	Ca_Kabuli_Chr03	19381306	CC	TT	TT	INTERGENIC			
SNP_15341_A_19381356	NC_021162.1	Ca_Kabuli_Chr03	19381356	AA	GG	GG	INTERGENIC			
SNP_15342_A_19381365	NC_021162.1	Ca_Kabuli_Chr03	19381365	TT	CC	CC	INTERGENIC			
SNP_15343_A_19381428	NC_021162.1	Ca_Kabuli_Chr03	19381428	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15344_A_19381453	NC_021162.1	Ca_Kabuli_Chr03	19381453	TT	GG	GG	INTERGENIC			
SNP_15345_A_19381591	NC_021162.1	Ca_Kabuli_Chr03	19381591	AA	CC	CC	INTERGENIC			
SNP_15346_A_19381592	NC_021162.1	Ca_Kabuli_Chr03	19381592	TT	AA	AA	INTERGENIC			
SNP_15347_A_19381719	NC_021162.1	Ca_Kabuli_Chr03	19381719	TT	GG	GG	INTERGENIC			
SNP_15348_A_19381727	NC_021162.1	Ca_Kabuli_Chr03	19381727	AA	GG	GG	INTERGENIC			
SNP_15349_A_19381739	NC_021162.1	Ca_Kabuli_Chr03	19381739	TT	CC	CC	INTERGENIC			
SNP_15350_A_19381787	NC_021162.1	Ca_Kabuli_Chr03	19381787	GG	AA	AA	INTERGENIC			
SNP_15351_A_19381804	NC_021162.1	Ca_Kabuli_Chr03	19381804	TT	CC	CC	INTERGENIC			
SNP_15352_A_19381839	NC_021162.1	Ca_Kabuli_Chr03	19381839	CC	AA	AA	INTERGENIC			
SNP_15353_A_19381894	NC_021162.1	Ca_Kabuli_Chr03	19381894	AA	CC	CC	INTERGENIC			
SNP_15354_A_19381919	NC_021162.1	Ca_Kabuli_Chr03	19381919	CC	TT	TT	INTERGENIC			
SNP_15355_A_19381999	NC_021162.1	Ca_Kabuli_Chr03	19381999	TT	CC	CC	INTERGENIC			
SNP_15356_A_19382001	NC_021162.1	Ca_Kabuli_Chr03	19382001	AA	GG	GG	INTERGENIC			
SNP_15357_A_19382008	NC_021162.1	Ca_Kabuli_Chr03	19382008	CC	AA	AA	INTERGENIC			
SNP_15358_A_19382076	NC_021162.1	Ca_Kabuli_Chr03	19382076	TT	CC	CC	INTERGENIC			
SNP_15359_A_19382126	NC_021162.1	Ca_Kabuli_Chr03	19382126	GG	CC	CC	INTERGENIC			
SNP_15360_A_19382193	NC_021162.1	Ca_Kabuli_Chr03	19382193	TT	CC	CC	INTERGENIC			
SNP_15361_A_19382254	NC_021162.1	Ca_Kabuli_Chr03	19382254	GG	AA	AA	INTERGENIC			
SNP_15362_A_19382269	NC_021162.1	Ca_Kabuli_Chr03	19382269	GG	AA	AA	INTERGENIC			
SNP_15363_A_19382324	NC_021162.1	Ca_Kabuli_Chr03	19382324	GG	AA	AA	INTERGENIC			
SNP_15364_A_19382328	NC_021162.1	Ca_Kabuli_Chr03	19382328	AA	GG	GG	INTERGENIC			
SNP_15365_A_19382329	NC_021162.1	Ca_Kabuli_Chr03	19382329	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15366_A_19382458	NC_021162.1	Ca_Kabuli_Chr03	19382458	TT	GG	GG	INTERGENIC			
SNP_15367_A_19382480	NC_021162.1	Ca_Kabuli_Chr03	19382480	TT	GG	GG	INTERGENIC			
SNP_15368_A_19382500	NC_021162.1	Ca_Kabuli_Chr03	19382500	TT	GG	GG	INTERGENIC			
SNP_15369_A_19382512	NC_021162.1	Ca_Kabuli_Chr03	19382512	CC	TT	TT	INTERGENIC			
SNP_15370_A_19382558	NC_021162.1	Ca_Kabuli_Chr03	19382558	GG	CC	CC	INTERGENIC			
SNP_15371_A_19382559	NC_021162.1	Ca_Kabuli_Chr03	19382559	GG	TT	TT	INTERGENIC			
SNP_15372_A_19382563	NC_021162.1	Ca_Kabuli_Chr03	19382563	GG	AA	AA	INTERGENIC			
SNP_15373_A_19382751	NC_021162.1	Ca_Kabuli_Chr03	19382751	CC	TT	TT	INTERGENIC			
SNP_15374_A_19382759	NC_021162.1	Ca_Kabuli_Chr03	19382759	TT	AA	AA	INTERGENIC			
SNP_15375_A_19382808	NC_021162.1	Ca_Kabuli_Chr03	19382808	GG	TT	TT	INTERGENIC			
SNP_15376_A_19383352	NC_021162.1	Ca_Kabuli_Chr03	19383352	AA	TT	TT	INTERGENIC			
SNP_15377_A_19383542	NC_021162.1	Ca_Kabuli_Chr03	19383542	AA	GG	GG	INTERGENIC			
SNP_15378_A_19383555	NC_021162.1	Ca_Kabuli_Chr03	19383555	CC	TT	TT	INTERGENIC			
SNP_15379_A_19383593	NC_021162.1	Ca_Kabuli_Chr03	19383593	GG	AA	AA	INTERGENIC			
SNP_15380_A_19383698	NC_021162.1	Ca_Kabuli_Chr03	19383698	AA	CC	CC	INTERGENIC			
SNP_15381_A_19383714	NC_021162.1	Ca_Kabuli_Chr03	19383714	GG	AA	AA	INTERGENIC			
SNP_15382_A_19383772	NC_021162.1	Ca_Kabuli_Chr03	19383772	CC	TT	TT	INTERGENIC			
SNP_15384_A_19384022	NC_021162.1	Ca_Kabuli_Chr03	19384022	GG	AA	AA	INTERGENIC			
SNP_15385_A_19384055	NC_021162.1	Ca_Kabuli_Chr03	19384055	AA	GG	GG	INTERGENIC			
SNP_15386_A_19384089	NC_021162.1	Ca_Kabuli_Chr03	19384089	AA	GG	GG	INTERGENIC			
SNP_15387_A_19384093	NC_021162.1	Ca_Kabuli_Chr03	19384093	CC	TT	TT	INTERGENIC			
SNP_15388_A_19384108	NC_021162.1	Ca_Kabuli_Chr03	19384108	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15389_A_19384125	NC_021162.1	Ca_Kabuli_Chr03	19384125	GG	AA	AA	INTERGENIC			
SNP_15390_A_19384126	NC_021162.1	Ca_Kabuli_Chr03	19384126	GG	AA	AA	INTERGENIC			
SNP_15391_A_19384915	NC_021162.1	Ca_Kabuli_Chr03	19384915	AA	GG	GG	INTERGENIC			
SNP_15392_A_19385144	NC_021162.1	Ca_Kabuli_Chr03	19385144	CC	AA	AA	INTERGENIC			
SNP_15393_A_19385147	NC_021162.1	Ca_Kabuli_Chr03	19385147	CC	TT	TT	INTERGENIC			
SNP_15394_A_19385179	NC_021162.1	Ca_Kabuli_Chr03	19385179	AA	GG	GG	INTERGENIC			
SNP_15395_A_19385271	NC_021162.1	Ca_Kabuli_Chr03	19385271	TT	CC	CC	INTERGENIC			
SNP_15396_A_19385318	NC_021162.1	Ca_Kabuli_Chr03	19385318	AA	GG	GG	INTERGENIC			
SNP_15397_A_19385371	NC_021162.1	Ca_Kabuli_Chr03	19385371	GG	AA	AA	INTERGENIC			
SNP_15398_A_19385519	NC_021162.1	Ca_Kabuli_Chr03	19385519	TT	CC	CC	INTERGENIC			
SNP_15399_A_19385526	NC_021162.1	Ca_Kabuli_Chr03	19385526	CC	TT	TT	INTERGENIC			
SNP_15400_A_19385609	NC_021162.1	Ca_Kabuli_Chr03	19385609	TT	CC	CC	INTERGENIC			
SNP_15401_A_19385618	NC_021162.1	Ca_Kabuli_Chr03	19385618	TT	AA	AA	INTERGENIC			
SNP_15402_A_19385645	NC_021162.1	Ca_Kabuli_Chr03	19385645	AA	GG	GG	INTERGENIC			
SNP_15403_A_19385650	NC_021162.1	Ca_Kabuli_Chr03	19385650	AA	GG	GG	INTERGENIC			
SNP_15404_A_19385655	NC_021162.1	Ca_Kabuli_Chr03	19385655	CC	TT	TT	INTERGENIC			
SNP_15405_A_19385753	NC_021162.1	Ca_Kabuli_Chr03	19385753	TT	CC	CC	INTERGENIC			
SNP_15406_A_19385808	NC_021162.1	Ca_Kabuli_Chr03	19385808	GG	CC	CC	INTERGENIC			
SNP_15407_A_19385936	NC_021162.1	Ca_Kabuli_Chr03	19385936	AA	GG	GG	INTERGENIC			
SNP_15408_A_19385937	NC_021162.1	Ca_Kabuli_Chr03	19385937	AA	GG	GG	INTERGENIC			
SNP_15409_A_19385972	NC_021162.1	Ca_Kabuli_Chr03	19385972	GG	AA	AA	INTERGENIC			
SNP_15410_A_19385976	NC_021162.1	Ca_Kabuli_Chr03	19385976	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15411_A_19385982	NC_021162.1	Ca_Kabuli_Chr03	19385982	AA	GG	GG	INTERGENIC		
SNP_15412_A_19386061	NC_021162.1	Ca_Kabuli_Chr03	19386061	AA	GG	GG	INTERGENIC		
SNP_15413_A_19386096	NC_021162.1	Ca_Kabuli_Chr03	19386096	GG	AA	AA	INTERGENIC		
SNP_15414_A_19386105	NC_021162.1	Ca_Kabuli_Chr03	19386105	GG	CC	CC	INTERGENIC		
SNP_15415_A_19389449	NC_021162.1	Ca_Kabuli_Chr03	19389449	TT	CC	CC	DRR	101508942	mucin-17-like
SNP_15417_A_19402911	NC_021162.1	Ca_Kabuli_Chr03	19402911	GG	TT	TT	INTERGENIC		
SNP_15418_A_19452892	NC_021162.1	Ca_Kabuli_Chr03	19452892	TT	CC	CC	URR	101510878	protein root UVB sensitive 5
SNP_15419_A_19452910	NC_021162.1	Ca_Kabuli_Chr03	19452910	CC	AA	AA	URR	101510878	protein root UVB sensitive 5
SNP_15420_A_19452913	NC_021162.1	Ca_Kabuli_Chr03	19452913	GG	TT	TT	URR	101510878	protein root UVB sensitive 5
SNP_15421_A_19452969	NC_021162.1	Ca_Kabuli_Chr03	19452969	AA	GG	GG	URR	101510878	protein root UVB sensitive 5
SNP_15422_A_19452970	NC_021162.1	Ca_Kabuli_Chr03	19452970	CC	TT	TT	URR	101510878	protein root UVB sensitive 5
SNP_15423_A_19452981	NC_021162.1	Ca_Kabuli_Chr03	19452981	AA	CC	CC	URR	101510878	protein root UVB sensitive 5
SNP_15424_A_19452985	NC_021162.1	Ca_Kabuli_Chr03	19452985	GG	TT	TT	URR	101510878	protein root UVB sensitive 5
SNP_15425_A_19486748	NC_021162.1	Ca_Kabuli_Chr03	19486748	TT	CC	CC	INTERGENIC		
SNP_15426_A_19492691	NC_021162.1	Ca_Kabuli_Chr03	19492691	TT	AA	AA	URR	101512695	vacuolar cation/proton exchanger 3
SNP_15427_A_19492692	NC_021162.1	Ca_Kabuli_Chr03	19492692	TT	AA	AA	URR	101512695	vacuolar cation/proton exchanger 3
SNP_15428_A_19494405	NC_021162.1	Ca_Kabuli_Chr03	19494405	AA	CC	CC	INTERGENIC		
SNP_15429_A_19533100	NC_021162.1	Ca_Kabuli_Chr03	19533100	GG	AA	AA	INTERGENIC		
SNP_15432_A_19608773	NC_021162.1	Ca_Kabuli_Chr03	19608773	AA	CC	CC	INTERGENIC		
SNP_15433_A_19634111	NC_021162.1	Ca_Kabuli_Chr03	19634111	AA	CC	CC	INTERGENIC		
SNP_15434_A_19634128	NC_021162.1	Ca_Kabuli_Chr03	19634128	AA	TT	TT	INTERGENIC		
SNP_15435_A_19634370	NC_021162.1	Ca_Kabuli_Chr03	19634370	CC	TT	TT	INTERGENIC		

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SNP_15437_A_19639561	NC_021162.1	Ca_Kabuli_Chr03	19639561	TT	CC	CC	INTERGENIC			
SNP_15438_A_19639939	NC_021162.1	Ca_Kabuli_Chr03	19639939	GG	AA	AA	INTERGENIC			
SNP_15439_A_19639973	NC_021162.1	Ca_Kabuli_Chr03	19639973	TT	AA	AA	INTERGENIC			
SNP_15440_A_19639989	NC_021162.1	Ca_Kabuli_Chr03	19639989	TT	GG	GG	INTERGENIC			
SNP_15441_A_19639992	NC_021162.1	Ca_Kabuli_Chr03	19639992	AA	TT	TT	INTERGENIC			
SNP_15442_A_19643050	NC_021162.1	Ca_Kabuli_Chr03	19643050	GG	CC	CC	INTERGENIC			
SNP_15443_A_19643082	NC_021162.1	Ca_Kabuli_Chr03	19643082	GG	AA	AA	INTERGENIC			
SNP_15444_A_19646572	NC_021162.1	Ca_Kabuli_Chr03	19646572	AA	GG	GG	INTERGENIC			
SNP_15445_A_19646916	NC_021162.1	Ca_Kabuli_Chr03	19646916	CC	TT	TT	INTERGENIC			
SNP_15446_A_19686998	NC_021162.1	Ca_Kabuli_Chr03	19686998	CC	AA	AA	INTERGENIC			
SNP_15447_A_19687341	NC_021162.1	Ca_Kabuli_Chr03	19687341	AA	GG	GG	INTERGENIC			
SNP_15448_A_19688555	NC_021162.1	Ca_Kabuli_Chr03	19688555	GG	AA	AA	INTERGENIC			
SNP_15449_A_19688719	NC_021162.1	Ca_Kabuli_Chr03	19688719	GG	AA	AA	INTERGENIC			
SNP_15450_A_19688748	NC_021162.1	Ca_Kabuli_Chr03	19688748	GG	AA	AA	INTERGENIC			
SNP_15451_A_19702417	NC_021162.1	Ca_Kabuli_Chr03	19702417	GG	TT	TT	INTERGENIC			
SNP_15452_A_19709580	NC_021162.1	Ca_Kabuli_Chr03	19709580	AA	TT	TT	INTERGENIC			
SNP_15453_A_19735115	NC_021162.1	Ca_Kabuli_Chr03	19735115	CC	AA	AA	INTERGENIC			
SNP_15454_A_19742599	NC_021162.1	Ca_Kabuli_Chr03	19742599	TT	AA	AA	INTERGENIC			
SNP_15455_A_19835964	NC_021162.1	Ca_Kabuli_Chr03	19835964	TT	CC	CC	INTERGENIC			
SNP_15456_A_19835966	NC_021162.1	Ca_Kabuli_Chr03	19835966	GG	TT	TT	INTERGENIC			
SNP_15457_A_19897251	NC_021162.1	Ca_Kabuli_Chr03	19897251	TT	GG	GG	INTERGENIC			
SNP_15458_A_19897252	NC_021162.1	Ca_Kabuli_Chr03	19897252	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15459_A_19897277	NC_021162.1	Ca_Kabuli_Chr03	19897277	CC	AA	AA	INTERGENIC		
SNP_15460_A_19897524	NC_021162.1	Ca_Kabuli_Chr03	19897524	GG	AA	AA	INTERGENIC		
SNP_15461_A_19960101	NC_021162.1	Ca_Kabuli_Chr03	19960101	AA	GG	GG	URR	101488385	uncharacterized LOC101488385
SNP_15462_A_19960175	NC_021162.1	Ca_Kabuli_Chr03	19960175	GG	AA	AA	URR	101488385	uncharacterized LOC101488385
SNP_15463_A_19960239	NC_021162.1	Ca_Kabuli_Chr03	19960239	AA	CC	CC	URR	101488385	uncharacterized LOC101488385
SNP_15464_A_19961010	NC_021162.1	Ca_Kabuli_Chr03	19961010	CC	TT	TT	URR	101488385	uncharacterized LOC101488385
SNP_15465_A_19961016	NC_021162.1	Ca_Kabuli_Chr03	19961016	AA	CC	CC	URR	101488385	uncharacterized LOC101488385
SNP_15466_A_19964171	NC_021162.1	Ca_Kabuli_Chr03	19964171	GG	TT	TT	INTERGENIC		
SNP_15467_A_19965123	NC_021162.1	Ca_Kabuli_Chr03	19965123	AA	GG	GG	INTERGENIC		
SNP_15468_A_19965226	NC_021162.1	Ca_Kabuli_Chr03	19965226	AA	GG	GG	INTERGENIC		
SNP_15469_A_19967565	NC_021162.1	Ca_Kabuli_Chr03	19967565	AA	GG	GG	INTERGENIC		
SNP_15470_A_19967773	NC_021162.1	Ca_Kabuli_Chr03	19967773	AA	GG	GG	INTERGENIC		
SNP_15471_A_19967843	NC_021162.1	Ca_Kabuli_Chr03	19967843	TT	CC	CC	INTERGENIC		
SNP_15472_A_19967948	NC_021162.1	Ca_Kabuli_Chr03	19967948	GG	TT	TT	INTERGENIC		
SNP_15473_A_19967963	NC_021162.1	Ca_Kabuli_Chr03	19967963	TT	CC	CC	INTERGENIC		
SNP_15474_A_19968170	NC_021162.1	Ca_Kabuli_Chr03	19968170	CC	TT	TT	INTERGENIC		
SNP_15475_A_19968197	NC_021162.1	Ca_Kabuli_Chr03	19968197	AA	GG	GG	INTERGENIC		
SNP_15478_A_19970387	NC_021162.1	Ca_Kabuli_Chr03	19970387	CC	GG	GG	INTERGENIC		
SNP_15479_A_19994000	NC_021162.1	Ca_Kabuli_Chr03	19994000	AA	TT	TT	INTERGENIC		
SNP_15480_A_19994048	NC_021162.1	Ca_Kabuli_Chr03	19994048	GG	CC	CC	INTERGENIC		
SNP_15481_A_19994126	NC_021162.1	Ca_Kabuli_Chr03	19994126	AA	GG	GG	INTERGENIC		
SNP_15482_A_19994168	NC_021162.1	Ca_Kabuli_Chr03	19994168	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15483_A_19994170	NC_021162.1	Ca_Kabuli_Chr03	19994170	AA	GG	GG	INTERGENIC		
SNP_15484_A_19994352	NC_021162.1	Ca_Kabuli_Chr03	19994352	AA	GG	GG	INTERGENIC		
SNP_15485_A_19997872	NC_021162.1	Ca_Kabuli_Chr03	19997872	GG	AA	AA	NON_SYNONYMOUS_CODING	101488710	serine/threonine-protein phosphatase 7 long form homolog
SNP_15486_A_20000257	NC_021162.1	Ca_Kabuli_Chr03	20000257	TT	AA	AA	DRR	101489046	uncharacterized LOC101489046
SNP_15489_A_20011676	NC_021162.1	Ca_Kabuli_Chr03	20011676	GG	TT	TT	INTERGENIC		
SNP_15490_A_20011718	NC_021162.1	Ca_Kabuli_Chr03	20011718	GG	AA	AA	INTERGENIC		
SNP_15491_A_20011742	NC_021162.1	Ca_Kabuli_Chr03	20011742	CC	TT	TT	INTERGENIC		
SNP_15492_A_20011933	NC_021162.1	Ca_Kabuli_Chr03	20011933	CC	TT	TT	URR	101499759	uncharacterized LOC101499759
SNP_15493_A_20012040	NC_021162.1	Ca_Kabuli_Chr03	20012040	CC	TT	TT	URR	101499759	uncharacterized LOC101499759
SNP_15494_A_20012067	NC_021162.1	Ca_Kabuli_Chr03	20012067	CC	TT	TT	URR	101499759	uncharacterized LOC101499759
SNP_15495_A_20012171	NC_021162.1	Ca_Kabuli_Chr03	20012171	GG	AA	AA	URR	101499759	uncharacterized LOC101499759
SNP_15496_A_20012191	NC_021162.1	Ca_Kabuli_Chr03	20012191	TT	CC	CC	URR	101499759	uncharacterized LOC101499759
SNP_15497_A_20012193	NC_021162.1	Ca_Kabuli_Chr03	20012193	GG	AA	AA	URR	101499759	uncharacterized LOC101499759
SNP_15498_A_20075274	NC_021162.1	Ca_Kabuli_Chr03	20075274	AA	GG	GG	INTERGENIC		
SNP_15499_A_20075277	NC_021162.1	Ca_Kabuli_Chr03	20075277	AA	GG	GG	INTERGENIC		
SNP_15500_A_20081473	NC_021162.1	Ca_Kabuli_Chr03	20081473	GG	AA	AA	DRR	101501983	uncharacterized LOC101501983
SNP_15501_A_20162167	NC_021162.1	Ca_Kabuli_Chr03	20162167	TT	AA	AA	URR	101489701	Unknown function
SNP_15502_A_20193082	NC_021162.1	Ca_Kabuli_Chr03	20193082	TT	CC	CC	INTERGENIC		
SNP_15503_A_20222130	NC_021162.1	Ca_Kabuli_Chr03	20222130	GG	TT	TT	INTERGENIC		
SNP_15504_A_20232380	NC_021162.1	Ca_Kabuli_Chr03	20232380	TT	AA	AA	INTERGENIC		
SNP_15505_A_20256109	NC_021162.1	Ca_Kabuli_Chr03	20256109	AA	CC	CC	INTERGENIC		
SNP_15506_A_20258270	NC_021162.1	Ca_Kabuli_Chr03	20258270	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15507_A_20258298	NC_021162.1	Ca_Kabuli_Chr03	20258298	CC	TT	TT	INTERGENIC			
SNP_15508_A_20258317	NC_021162.1	Ca_Kabuli_Chr03	20258317	AA	GG	GG	INTERGENIC			
SNP_15509_A_20258551	NC_021162.1	Ca_Kabuli_Chr03	20258551	TT	GG	GG	INTERGENIC			
SNP_15510_A_20258573	NC_021162.1	Ca_Kabuli_Chr03	20258573	AA	CC	CC	INTERGENIC			
SNP_15511_A_20323846	NC_021162.1	Ca_Kabuli_Chr03	20323846	GG	AA	AA	INTERGENIC			
SNP_15512_A_20323960	NC_021162.1	Ca_Kabuli_Chr03	20323960	TT	AA	AA	INTERGENIC			
SNP_15513_A_20324152	NC_021162.1	Ca_Kabuli_Chr03	20324152	CC	AA	AA	INTERGENIC			
SNP_15514_A_20324219	NC_021162.1	Ca_Kabuli_Chr03	20324219	AA	CC	CC	INTERGENIC			
SNP_15515_A_20324232	NC_021162.1	Ca_Kabuli_Chr03	20324232	TT	CC	CC	INTERGENIC			
SNP_15516_A_20324254	NC_021162.1	Ca_Kabuli_Chr03	20324254	AA	GG	GG	INTERGENIC			
SNP_15517_A_20324276	NC_021162.1	Ca_Kabuli_Chr03	20324276	AA	CC	CC	INTERGENIC			
SNP_15520_A_20339414	NC_021162.1	Ca_Kabuli_Chr03	20339414	AA	GG	GG	INTERGENIC			
SNP_15521_A_20424957	NC_021162.1	Ca_Kabuli_Chr03	20424957	GG	AA	AA	INTERGENIC			
SNP_15522_A_20429394	NC_021162.1	Ca_Kabuli_Chr03	20429394	GG	AA	AA	INTERGENIC			
SNP_15523_A_20436687	NC_021162.1	Ca_Kabuli_Chr03	20436687	CC	TT	TT	INTERGENIC			
SNP_15524_A_20436728	NC_021162.1	Ca_Kabuli_Chr03	20436728	TT	CC	CC	INTERGENIC			
SNP_15525_A_20438634	NC_021162.1	Ca_Kabuli_Chr03	20438634	TT	CC	CC	INTERGENIC			
SNP_15526_A_20439004	NC_021162.1	Ca_Kabuli_Chr03	20439004	GG	TT	TT	INTERGENIC			
SNP_15527_A_20439013	NC_021162.1	Ca_Kabuli_Chr03	20439013	AA	TT	TT	INTERGENIC			
SNP_15528_A_20439091	NC_021162.1	Ca_Kabuli_Chr03	20439091	AA	CC	CC	INTERGENIC			
SNP_15529_A_20439271	NC_021162.1	Ca_Kabuli_Chr03	20439271	TT	AA	AA	INTERGENIC			
SNP_15530_A_20445028	NC_021162.1	Ca_Kabuli_Chr03	20445028	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15534_A_20616410	NC_021162.1	Ca_Kabuli_Chr03	20616410	CC	TT	TT	INTERGENIC			
SNP_15536_A_20621232	NC_021162.1	Ca_Kabuli_Chr03	20621232	TT	AA	AA	INTERGENIC			
SNP_15537_A_20621269	NC_021162.1	Ca_Kabuli_Chr03	20621269	GG	CC	CC	INTERGENIC			
SNP_15538_A_20698903	NC_021162.1	Ca_Kabuli_Chr03	20698903	GG	AA	AA	INTERGENIC			
SNP_15539_A_20698911	NC_021162.1	Ca_Kabuli_Chr03	20698911	AA	GG	GG	INTERGENIC			
SNP_15540_A_20728620	NC_021162.1	Ca_Kabuli_Chr03	20728620	AA	GG	GG	INTERGENIC			
SNP_15541_A_20728629	NC_021162.1	Ca_Kabuli_Chr03	20728629	GG	AA	AA	INTERGENIC			
SNP_15542_A_20729129	NC_021162.1	Ca_Kabuli_Chr03	20729129	GG	CC	CC	INTERGENIC			
SNP_15543_A_20730663	NC_021162.1	Ca_Kabuli_Chr03	20730663	CC	TT	TT	INTERGENIC			
SNP_15544_A_20730724	NC_021162.1	Ca_Kabuli_Chr03	20730724	TT	GG	GG	INTERGENIC			
SNP_15545_A_20730734	NC_021162.1	Ca_Kabuli_Chr03	20730734	CC	TT	TT	INTERGENIC			
SNP_15546_A_20731027	NC_021162.1	Ca_Kabuli_Chr03	20731027	CC	TT	TT	INTERGENIC			
SNP_15547_A_20738510	NC_021162.1	Ca_Kabuli_Chr03	20738510	AA	CC	CC	INTERGENIC			
SNP_15548_A_20738578	NC_021162.1	Ca_Kabuli_Chr03	20738578	TT	CC	CC	INTERGENIC			
SNP_15549_A_20738789	NC_021162.1	Ca_Kabuli_Chr03	20738789	CC	TT	TT	INTERGENIC			
SNP_15550_A_20738820	NC_021162.1	Ca_Kabuli_Chr03	20738820	CC	TT	TT	INTERGENIC			
SNP_15551_A_20744087	NC_021162.1	Ca_Kabuli_Chr03	20744087	CC	TT	TT	INTERGENIC			
SNP_15552_A_20744226	NC_021162.1	Ca_Kabuli_Chr03	20744226	AA	GG	GG	INTERGENIC			
SNP_15553_A_20744433	NC_021162.1	Ca_Kabuli_Chr03	20744433	AA	GG	GG	INTERGENIC			
SNP_15554_A_20744515	NC_021162.1	Ca_Kabuli_Chr03	20744515	AA	TT	TT	INTERGENIC			
SNP_15555_A_20744525	NC_021162.1	Ca_Kabuli_Chr03	20744525	GG	AA	AA	INTERGENIC			
SNP_15556_A_20744550	NC_021162.1	Ca_Kabuli_Chr03	20744550	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15557_A_20744564	NC_021162.1	Ca_Kabuli_Chr03	20744564	CC	TT	TT	INTERGENIC		
SNP_15559_A_20773721	NC_021162.1	Ca_Kabuli_Chr03	20773721	AA	GG	GG	DRR	101492951	protein LURP-one-related 15-like
SNP_15560_A_20847880	NC_021162.1	Ca_Kabuli_Chr03	20847880	TT	GG	GG	INTERGENIC		
SNP_15561_A_20896548	NC_021162.1	Ca_Kabuli_Chr03	20896548	AA	CC	CC	INTERGENIC		
SNP_15562_A_20896581	NC_021162.1	Ca_Kabuli_Chr03	20896581	GG	AA	AA	INTERGENIC		
SNP_15563_A_20896604	NC_021162.1	Ca_Kabuli_Chr03	20896604	AA	TT	TT	INTERGENIC		
SNP_15564_A_20896610	NC_021162.1	Ca_Kabuli_Chr03	20896610	TT	AA	AA	INTERGENIC		
SNP_15565_A_20899410	NC_021162.1	Ca_Kabuli_Chr03	20899410	AA	GG	GG	INTERGENIC		
SNP_15566_A_20899436	NC_021162.1	Ca_Kabuli_Chr03	20899436	TT	CC	CC	INTERGENIC		
SNP_15567_A_20913600	NC_021162.1	Ca_Kabuli_Chr03	20913600	CC	TT	TT	INTERGENIC		
SNP_15568_A_20913615	NC_021162.1	Ca_Kabuli_Chr03	20913615	CC	TT	TT	INTERGENIC		
SNP_15569_A_20933493	NC_021162.1	Ca_Kabuli_Chr03	20933493	TT	AA	AA	URR	101495195	uncharacterized LOC101495195
SNP_15570_A_20933563	NC_021162.1	Ca_Kabuli_Chr03	20933563	AA	GG	GG	URR	101495195	uncharacterized LOC101495195
SNP_15571_A_20933634	NC_021162.1	Ca_Kabuli_Chr03	20933634	AA	GG	GG	URR	101495195	uncharacterized LOC101495195
SNP_15572_A_20940618	NC_021162.1	Ca_Kabuli_Chr03	20940618	CC	GG	GG	INTERGENIC		
SNP_15573_A_20951796	NC_021162.1	Ca_Kabuli_Chr03	20951796	AA	TT	TT	INTRON	101489590	transcription factor SCREAM2-like
SNP_15574_A_20970480	NC_021162.1	Ca_Kabuli_Chr03	20970480	CC	GG	GG	INTERGENIC		
SNP_15575_A_20970483	NC_021162.1	Ca_Kabuli_Chr03	20970483	AA	TT	TT	INTERGENIC		
SNP_15577_A_21012448	NC_021162.1	Ca_Kabuli_Chr03	21012448	AA	CC	CC	INTERGENIC		
SNP_15578_A_21012514	NC_021162.1	Ca_Kabuli_Chr03	21012514	CC	TT	TT	INTERGENIC		
SNP_15579_A_21012925	NC_021162.1	Ca_Kabuli_Chr03	21012925	GG	AA	AA	INTERGENIC		
SNP_15580_A_21060357	NC_021162.1	Ca_Kabuli_Chr03	21060357	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15581_A_21060358	NC_021162.1	Ca_Kabuli_Chr03	21060358	CC	AA	AA	INTERGENIC		
SNP_15582_A_21066960	NC_021162.1	Ca_Kabuli_Chr03	21066960	CC	TT	TT	NON_SYNONYMOUS_CODING	id48218	Unknown function
SNP_15583_A_21066962	NC_021162.1	Ca_Kabuli_Chr03	21066962	AA	GG	GG	NON_SYNONYMOUS_CODING	id48218	Unknown function
SNP_15584_A_21068831	NC_021162.1	Ca_Kabuli_Chr03	21068831	AA	GG	GG	INTRON	101492734	lysine-tRNA ligase-like
SNP_15585_A_21068834	NC_021162.1	Ca_Kabuli_Chr03	21068834	AA	GG	GG	INTRON	101492734	lysine-tRNA ligase-like
SNP_15586_A_21068846	NC_021162.1	Ca_Kabuli_Chr03	21068846	GG	CC	CC	INTRON	101492734	lysine-tRNA ligase-like
SNP_15587_A_21069019	NC_021162.1	Ca_Kabuli_Chr03	21069019	TT	AA	AA	INTRON	101492734	lysine-tRNA ligase-like
SNP_15588_A_21069041	NC_021162.1	Ca_Kabuli_Chr03	21069041	TT	CC	CC	INTRON	101492734	lysine-tRNA ligase-like
SNP_15590_A_21182746	NC_021162.1	Ca_Kabuli_Chr03	21182746	CC	TT	TT	DRR	101495519	serine/threonine-protein kinase HT1
SNP_15591_A_21186380	NC_021162.1	Ca_Kabuli_Chr03	21186380	AA	TT	TT	INTRON	101495519	serine/threonine-protein kinase HT1
SNP_15592_A_21186394	NC_021162.1	Ca_Kabuli_Chr03	21186394	GG	AA	AA	INTRON	101495519	serine/threonine-protein kinase HT1
SNP_15593_A_21186782	NC_021162.1	Ca_Kabuli_Chr03	21186782	TT	GG	GG	DRR	101494754	non-specific lipid-transfer protein 1-like
SNP_15594_A_21186822	NC_021162.1	Ca_Kabuli_Chr03	21186822	TT	AA	AA	DRR	101494754	non-specific lipid-transfer protein 1-like
SNP_15595_A_21186823	NC_021162.1	Ca_Kabuli_Chr03	21186823	TT	CC	CC	DRR	101494754	non-specific lipid-transfer protein 1-like
SNP_15596_A_21211688	NC_021162.1	Ca_Kabuli_Chr03	21211688	TT	CC	CC	INTERGENIC		
SNP_15597_A_21243912	NC_021162.1	Ca_Kabuli_Chr03	21243912	TT	CC	CC	DRR	101496395	uncharacterized LOC101496395
SNP_15599_A_21303410	NC_021162.1	Ca_Kabuli_Chr03	21303410	GG	AA	AA	URR	101496504	uncharacterized LOC101496504
SNP_15602_A_21321452	NC_021162.1	Ca_Kabuli_Chr03	21321452	TT	CC	CC	INTERGENIC		
SNP_15603_A_21321455	NC_021162.1	Ca_Kabuli_Chr03	21321455	TT	CC	CC	INTERGENIC		
SNP_15604_A_21321491	NC_021162.1	Ca_Kabuli_Chr03	21321491	AA	GG	GG	INTERGENIC		
SNP_15605_A_21321712	NC_021162.1	Ca_Kabuli_Chr03	21321712	CC	TT	TT	INTERGENIC		
SNP_15606_A_21331803	NC_021162.1	Ca_Kabuli_Chr03	21331803	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15607_A_21331835	NC_021162.1	Ca_Kabuli_Chr03	21331835	AA	CC	CC	INTERGENIC			
SNP_15608_A_21331850	NC_021162.1	Ca_Kabuli_Chr03	21331850	AA	CC	CC	INTERGENIC			
SNP_15609_A_21331872	NC_021162.1	Ca_Kabuli_Chr03	21331872	AA	TT	TT	INTERGENIC			
SNP_15610_A_21356265	NC_021162.1	Ca_Kabuli_Chr03	21356265	GG	AA	AA	INTERGENIC			
SNP_15611_A_21356341	NC_021162.1	Ca_Kabuli_Chr03	21356341	AA	GG	GG	INTERGENIC			
SNP_15612_A_21397297	NC_021162.1	Ca_Kabuli_Chr03	21397297	GG	TT	TT	INTERGENIC			
SNP_15613_A_21397433	NC_021162.1	Ca_Kabuli_Chr03	21397433	TT	CC	CC	INTERGENIC			
SNP_15614_A_21397512	NC_021162.1	Ca_Kabuli_Chr03	21397512	GG	AA	AA	INTERGENIC			
SNP_15615_A_21397529	NC_021162.1	Ca_Kabuli_Chr03	21397529	AA	GG	GG	INTERGENIC			
SNP_15616_A_21397587	NC_021162.1	Ca_Kabuli_Chr03	21397587	CC	TT	TT	INTERGENIC			
SNP_15617_A_21397602	NC_021162.1	Ca_Kabuli_Chr03	21397602	TT	GG	GG	INTERGENIC			
SNP_15618_A_21397691	NC_021162.1	Ca_Kabuli_Chr03	21397691	GG	TT	TT	INTERGENIC			
SNP_15619_A_21414090	NC_021162.1	Ca_Kabuli_Chr03	21414090	GG	CC	CC	INTERGENIC			
SNP_15620_A_21414164	NC_021162.1	Ca_Kabuli_Chr03	21414164	TT	CC	CC	INTERGENIC			
SNP_15621_A_21414225	NC_021162.1	Ca_Kabuli_Chr03	21414225	GG	CC	CC	INTERGENIC			
SNP_15622_A_21422190	NC_021162.1	Ca_Kabuli_Chr03	21422190	TT	CC	CC	INTERGENIC			
SNP_15624_A_21583417	NC_021162.1	Ca_Kabuli_Chr03	21583417	CC	AA	AA	INTERGENIC			
SNP_15625_A_21583495	NC_021162.1	Ca_Kabuli_Chr03	21583495	CC	TT	TT	INTERGENIC			
SNP_15626_A_21583604	NC_021162.1	Ca_Kabuli_Chr03	21583604	AA	TT	TT	INTERGENIC			
SNP_15627_A_21583609	NC_021162.1	Ca_Kabuli_Chr03	21583609	TT	AA	AA	INTERGENIC			
SNP_15628_A_21583610	NC_021162.1	Ca_Kabuli_Chr03	21583610	GG	AA	AA	INTERGENIC			
SNP_15629_A_21583629	NC_021162.1	Ca_Kabuli_Chr03	21583629	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15631_A_21620251	NC_021162.1	Ca_Kabuli_Chr03	21620251	AA	GG	GG	INTERGENIC		
SNP_15632_A_21635312	NC_021162.1	Ca_Kabuli_Chr03	21635312	AA	TT	TT	INTERGENIC		
SNP_15633_A_21635387	NC_021162.1	Ca_Kabuli_Chr03	21635387	CC	AA	AA	INTERGENIC		
SNP_15634_A_21635388	NC_021162.1	Ca_Kabuli_Chr03	21635388	AA	TT	TT	INTERGENIC		
SNP_15635_A_21635390	NC_021162.1	Ca_Kabuli_Chr03	21635390	AA	GG	GG	INTERGENIC		
SNP_15636_A_21635417	NC_021162.1	Ca_Kabuli_Chr03	21635417	GG	TT	TT	INTERGENIC		
SNP_15637_A_21635466	NC_021162.1	Ca_Kabuli_Chr03	21635466	AA	GG	GG	INTERGENIC		
SNP_15639_A_21635661	NC_021162.1	Ca_Kabuli_Chr03	21635661	GG	TT	TT	INTERGENIC		
SNP_15640_A_21635673	NC_021162.1	Ca_Kabuli_Chr03	21635673	AA	TT	TT	INTERGENIC		
SNP_15641_A_21635675	NC_021162.1	Ca_Kabuli_Chr03	21635675	GG	AA	AA	INTERGENIC		
SNP_15642_A_21635688	NC_021162.1	Ca_Kabuli_Chr03	21635688	AA	GG	GG	INTERGENIC		
SNP_15643_A_21635766	NC_021162.1	Ca_Kabuli_Chr03	21635766	TT	CC	CC	INTERGENIC		
SNP_15644_A_21635859	NC_021162.1	Ca_Kabuli_Chr03	21635859	GG	TT	TT	INTERGENIC		
SNP_15645_A_21640816	NC_021162.1	Ca_Kabuli_Chr03	21640816	TT	CC	CC	INTRON	101510020	uncharacterized LOC101510020
SNP_15646_A_21699777	NC_021162.1	Ca_Kabuli_Chr03	21699777	GG	AA	AA	INTRON	101512486	uncharacterized LOC101512486
SNP_15647_A_21881295	NC_021162.1	Ca_Kabuli_Chr03	21881295	AA	GG	GG	INTERGENIC		
SNP_15648_A_21883771	NC_021162.1	Ca_Kabuli_Chr03	21883771	TT	AA	AA	INTERGENIC		
SNP_15649_A_21883789	NC_021162.1	Ca_Kabuli_Chr03	21883789	GG	AA	AA	INTERGENIC		
SNP_15650_A_21884622	NC_021162.1	Ca_Kabuli_Chr03	21884622	GG	AA	AA	INTERGENIC		
SNP_15651_A_21885730	NC_021162.1	Ca_Kabuli_Chr03	21885730	GG	AA	AA	DRR	101507476	Unknown function
SNP_15652_A_21885772	NC_021162.1	Ca_Kabuli_Chr03	21885772	AA	CC	CC	DRR	101507476	Unknown function
SNP_15653_A_21885775	NC_021162.1	Ca_Kabuli_Chr03	21885775	AA	GG	GG	DRR	101507476	Unknown function

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SNP_15654_A_21886198	NC_021162.1	Ca_Kabuli_Chr03	21886198	GG	AA	AA	DRR	101507476	Unknown function
SNP_15655_A_21887525	NC_021162.1	Ca_Kabuli_Chr03	21887525	TT	GG	GG	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15656_A_21887705	NC_021162.1	Ca_Kabuli_Chr03	21887705	GG	AA	AA	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15657_A_21890831	NC_021162.1	Ca_Kabuli_Chr03	21890831	TT	CC	CC	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15658_A_21891241	NC_021162.1	Ca_Kabuli_Chr03	21891241	TT	GG	GG	INTRON	101507476	Unknown function
SNP_15659_A_21891764	NC_021162.1	Ca_Kabuli_Chr03	21891764	GG	AA	AA	INTRON	101507476	Unknown function
SNP_15660_A_21891798	NC_021162.1	Ca_Kabuli_Chr03	21891798	GG	TT	TT	INTRON	101507476	Unknown function
SNP_15661_A_21891850	NC_021162.1	Ca_Kabuli_Chr03	21891850	GG	AA	AA	INTRON	101507476	Unknown function
SNP_15662_A_21892123	NC_021162.1	Ca_Kabuli_Chr03	21892123	AA	TT	TT	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15663_A_21892130	NC_021162.1	Ca_Kabuli_Chr03	21892130	TT	CC	CC	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15664_A_21892171	NC_021162.1	Ca_Kabuli_Chr03	21892171	CC	TT	TT	NON_SYNONYMOUS_CODING	101507476	Unknown function
SNP_15665_A_21893042	NC_021162.1	Ca_Kabuli_Chr03	21893042	AA	GG	GG	URR	101507476	Unknown function
SNP_15666_A_21893100	NC_021162.1	Ca_Kabuli_Chr03	21893100	GG	TT	TT	URR	101507476	Unknown function
SNP_15667_A_21895322	NC_021162.1	Ca_Kabuli_Chr03	21895322	GG	AA	AA	INTERGENIC		
SNP_15668_A_21895446	NC_021162.1	Ca_Kabuli_Chr03	21895446	GG	AA	AA	INTERGENIC		
SNP_15669_A_21895702	NC_021162.1	Ca_Kabuli_Chr03	21895702	CC	TT	TT	INTERGENIC		
SNP_15671_A_21899661	NC_021162.1	Ca_Kabuli_Chr03	21899661	GG	AA	AA	INTERGENIC		
SNP_15672_A_21900017	NC_021162.1	Ca_Kabuli_Chr03	21900017	CC	AA	AA	INTERGENIC		
SNP_15673_A_21903492	NC_021162.1	Ca_Kabuli_Chr03	21903492	GG	AA	AA	INTERGENIC		
SNP_15674_A_21904319	NC_021162.1	Ca_Kabuli_Chr03	21904319	AA	GG	GG	INTERGENIC		
SNP_15675_A_21904374	NC_021162.1	Ca_Kabuli_Chr03	21904374	AA	CC	CC	INTERGENIC		
SNP_15676_A_21922688	NC_021162.1	Ca_Kabuli_Chr03	21922688	TT	CC	CC	INTERGENIC		

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SNP_15677_A_21923172	NC_021162.1	Ca_Kabuli_Chr03	21923172	AA	TT	TT	INTERGENIC		
SNP_15678_A_21936479	NC_021162.1	Ca_Kabuli_Chr03	21936479	GG	AA	AA	INTRON	101507785	uncharacterized LOC101507785
SNP_15679_A_21938152	NC_021162.1	Ca_Kabuli_Chr03	21938152	GG	AA	AA	INTRON	101507785	uncharacterized LOC101507785
SNP_15680_A_21954185	NC_021162.1	Ca_Kabuli_Chr03	21954185	CC	AA	AA	URR	101500079	AT-hook motif nuclear-localized protein 7-like
SNP_15681_A_21955470	NC_021162.1	Ca_Kabuli_Chr03	21955470	TT	AA	AA	INTERGENIC		
SNP_15683_A_22022151	NC_021162.1	Ca_Kabuli_Chr03	22022151	CC	TT	TT	DRR	101502203	armadillo repeat-containing kinesin-like protein 2
SNP_15685_A_22070451	NC_021162.1	Ca_Kabuli_Chr03	22070451	TT	GG	GG	URR	101503154	myosin-11
SNP_15686_A_22070475	NC_021162.1	Ca_Kabuli_Chr03	22070475	AA	TT	TT	URR	101503154	myosin-11
SNP_15687_A_22125334	NC_021162.1	Ca_Kabuli_Chr03	22125334	AA	GG	GG	INTERGENIC		
SNP_15688_A_22125361	NC_021162.1	Ca_Kabuli_Chr03	22125361	TT	CC	CC	INTERGENIC		
SNP_15689_A_22125375	NC_021162.1	Ca_Kabuli_Chr03	22125375	AA	TT	TT	INTERGENIC		
SNP_15690_A_22125735	NC_021162.1	Ca_Kabuli_Chr03	22125735	CC	AA	AA	INTERGENIC		
SNP_15691_A_22125782	NC_021162.1	Ca_Kabuli_Chr03	22125782	TT	CC	CC	INTERGENIC		
SNP_15692_A_22130171	NC_021162.1	Ca_Kabuli_Chr03	22130171	GG	AA	AA	INTERGENIC		
SNP_15693_A_22130178	NC_021162.1	Ca_Kabuli_Chr03	22130178	AA	GG	GG	INTERGENIC		
SNP_15694_A_22130250	NC_021162.1	Ca_Kabuli_Chr03	22130250	AA	GG	GG	INTERGENIC		
SNP_15695_A_22130333	NC_021162.1	Ca_Kabuli_Chr03	22130333	AA	GG	GG	INTERGENIC		
SNP_15696_A_22130334	NC_021162.1	Ca_Kabuli_Chr03	22130334	AA	GG	GG	INTERGENIC		
SNP_15697_A_22130343	NC_021162.1	Ca_Kabuli_Chr03	22130343	GG	TT	TT	INTERGENIC		
SNP_15698_A_22130356	NC_021162.1	Ca_Kabuli_Chr03	22130356	AA	TT	TT	INTERGENIC		
SNP_15699_A_22130466	NC_021162.1	Ca_Kabuli_Chr03	22130466	GG	AA	AA	INTERGENIC		
SNP_15700_A_22130508	NC_021162.1	Ca_Kabuli_Chr03	22130508	CC	TT	TT	INTERGENIC		

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SNP_15701_A_22130661	NC_021162.1	Ca_Kabuli_Chr03	22130661	GG	AA	AA	INTERGENIC		
SNP_15702_A_22130682	NC_021162.1	Ca_Kabuli_Chr03	22130682	CC	AA	AA	INTERGENIC		
SNP_15703_A_22130697	NC_021162.1	Ca_Kabuli_Chr03	22130697	AA	GG	GG	INTERGENIC		
SNP_15704_A_22130712	NC_021162.1	Ca_Kabuli_Chr03	22130712	AA	GG	GG	INTERGENIC		
SNP_15705_A_22130751	NC_021162.1	Ca_Kabuli_Chr03	22130751	AA	GG	GG	INTERGENIC		
SNP_15706_A_22324020	NC_021162.1	Ca_Kabuli_Chr03	22324020	AA	TT	TT	URR	101511101	CRS2-associated factor 1, mitochondrial
SNP_15707_A_22343847	NC_021162.1	Ca_Kabuli_Chr03	22343847	AA	CC	CC	DRR	101511740	subtilisin-like protease SBT1.1
SNP_15708_A_22347449	NC_021162.1	Ca_Kabuli_Chr03	22347449	AA	CC	CC	URR	101511740	subtilisin-like protease SBT1.1
SNP_15709_A_22361462	NC_021162.1	Ca_Kabuli_Chr03	22361462	TT	AA	AA	DRR	101410551	transfer RNA leucine (anticodon AAG)
SNP_15711_A_22425997	NC_021162.1	Ca_Kabuli_Chr03	22425997	CC	TT	TT	INTERGENIC		
SNP_15712_A_22445359	NC_021162.1	Ca_Kabuli_Chr03	22445359	GG	AA	AA	INTERGENIC		
SNP_15713_A_22478295	NC_021162.1	Ca_Kabuli_Chr03	22478295	TT	CC	CC	INTERGENIC		
SNP_15714_A_22478296	NC_021162.1	Ca_Kabuli_Chr03	22478296	AA	GG	GG	INTERGENIC		
SNP_15715_A_22482848	NC_021162.1	Ca_Kabuli_Chr03	22482848	GG	AA	AA	INTERGENIC		
SNP_15716_A_22538918	NC_021162.1	Ca_Kabuli_Chr03	22538918	CC	TT	TT	NON_SYNONYMOUS_CODING	101489048	uncharacterized LOC101489048
SNP_15717_A_22554212	NC_021162.1	Ca_Kabuli_Chr03	22554212	TT	AA	AA	INTERGENIC		
SNP_15718_A_22600257	NC_021162.1	Ca_Kabuli_Chr03	22600257	TT	CC	CC	INTERGENIC		
SNP_15719_A_22621186	NC_021162.1	Ca_Kabuli_Chr03	22621186	AA	GG	GG	DRR	101491317	SPX and EXS domain-containing protein 1-like
SNP_15720_A_22621733	NC_021162.1	Ca_Kabuli_Chr03	22621733	GG	AA	AA	DRR	101491317	SPX and EXS domain-containing protein 1-like
SNP_15722_A_22732591	NC_021162.1	Ca_Kabuli_Chr03	22732591	CC	TT	TT	DRR	101510344	uncharacterized LOC101510344
SNP_15723_A_22743150	NC_021162.1	Ca_Kabuli_Chr03	22743150	GG	AA	AA	INTERGENIC		
SNP_15724_A_22816757	NC_021162.1	Ca_Kabuli_Chr03	22816757	TT	CC	CC	INTRON	101510995	serine/threonine-protein kinase RIO1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15725_A_22836776	NC_021162.1	Ca_Kabuli_Chr03	22836776	AA	TT	TT	URR	101497700	uncharacterized protein At3g61260-like
SNP_15726_A_22836777	NC_021162.1	Ca_Kabuli_Chr03	22836777	TT	AA	AA	URR	101497700	uncharacterized protein At3g61260-like
SNP_15728_A_22935147	NC_021162.1	Ca_Kabuli_Chr03	22935147	TT	GG	GG	INTRON	101511627	Unknown function
SNP_15729_A_22935154	NC_021162.1	Ca_Kabuli_Chr03	22935154	GG	AA	AA	INTRON	101511627	Unknown function
SNP_15731_A_22944106	NC_021162.1	Ca_Kabuli_Chr03	22944106	TT	AA	AA	DRR	101511951	Unknown function
SNP_15732_A_22961719	NC_021162.1	Ca_Kabuli_Chr03	22961719	CC	TT	TT	INTERGENIC		
SNP_15733_A_22963619	NC_021162.1	Ca_Kabuli_Chr03	22963619	GG	TT	TT	INTERGENIC		
SNP_15734_A_22964420	NC_021162.1	Ca_Kabuli_Chr03	22964420	AA	TT	TT	DRR	101502424	uncharacterized LOC101502424
SNP_15735_A_22978506	NC_021162.1	Ca_Kabuli_Chr03	22978506	TT	CC	CC	INTRON	101502727	acyl-coenzyme A thioesterase 8-like
SNP_15736_A_22996910	NC_021162.1	Ca_Kabuli_Chr03	22996910	GG	AA	AA	URR	101503037	beta-amylase 7
SNP_15737_A_22999646	NC_021162.1	Ca_Kabuli_Chr03	22999646	TT	AA	AA	INTERGENIC		
SNP_15738_A_23001795	NC_021162.1	Ca_Kabuli_Chr03	23001795	GG	TT	TT	INTERGENIC		
SNP_15739_A_23012928	NC_021162.1	Ca_Kabuli_Chr03	23012928	TT	GG	GG	INTERGENIC		
SNP_15740_A_23013246	NC_021162.1	Ca_Kabuli_Chr03	23013246	AA	TT	TT	INTERGENIC		
SNP_15741_A_23013920	NC_021162.1	Ca_Kabuli_Chr03	23013920	GG	AA	AA	INTERGENIC		
SNP_15742_A_23014149	NC_021162.1	Ca_Kabuli_Chr03	23014149	TT	GG	GG	DRR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15743_A_23014151	NC_021162.1	Ca_Kabuli_Chr03	23014151	TT	CC	CC	DRR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15744_A_23014152	NC_021162.1	Ca_Kabuli_Chr03	23014152	GG	AA	AA	DRR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15745_A_23014178	NC_021162.1	Ca_Kabuli_Chr03	23014178	TT	AA	AA	DRR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15746_A_23014183	NC_021162.1	Ca_Kabuli_Chr03	23014183	GG	CC	CC	DRR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15748_A_23016959	NC_021162.1	Ca_Kabuli_Chr03	23016959	CC	TT	TT	URR	101503367	gibberellin 3-beta-dioxygenase 4-like
SNP_15749_A_23018703	NC_021162.1	Ca_Kabuli_Chr03	23018703	CC	AA	AA	INTERGENIC		

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SNP_15750_A_23019096	NC_021162.1	Ca_Kabuli_Chr03	23019096	CC	TT	TT	INTERGENIC		
SNP_15751_A_23019162	NC_021162.1	Ca_Kabuli_Chr03	23019162	AA	TT	TT	INTERGENIC		
SNP_15754_A_23130460	NC_021162.1	Ca_Kabuli_Chr03	23130460	AA	GG	GG	URR	101507257	U-box domain-containing protein 33
SNP_15755_A_23132419	NC_021162.1	Ca_Kabuli_Chr03	23132419	GG	AA	AA	INTERGENIC		
SNP_15757_A_23255460	NC_021162.1	Ca_Kabuli_Chr03	23255460	CC	TT	TT	DRR	101512608	bifunctional L-3-cyanoalanine synthase/cysteine synthase 1, mitochondrial
SNP_15758_A_23297021	NC_021162.1	Ca_Kabuli_Chr03	23297021	GG	AA	AA	INTERGENIC		
SNP_15759_A_23297124	NC_021162.1	Ca_Kabuli_Chr03	23297124	AA	GG	GG	INTERGENIC		
SNP_15760_A_23305981	NC_021162.1	Ca_Kabuli_Chr03	23305981	GG	TT	TT	URR	101513242	AT-rich interactive domain-containing protein 2-like
SNP_15762_A_23325576	NC_021162.1	Ca_Kabuli_Chr03	23325576	AA	GG	GG	DRR	101513768	protein TRANSPARENT TESTA 12
SNP_15764_A_23424409	NC_021162.1	Ca_Kabuli_Chr03	23424409	TT	GG	GG	INTERGENIC		
SNP_15765_A_23432755	NC_021162.1	Ca_Kabuli_Chr03	23432755	TT	CC	CC	INTERGENIC		
SNP_15766_A_23432930	NC_021162.1	Ca_Kabuli_Chr03	23432930	AA	GG	GG	INTERGENIC		
SNP_15768_A_23536876	NC_021162.1	Ca_Kabuli_Chr03	23536876	TT	CC	CC	INTRON	101493607	F-box/kelch-repeat protein At3g23880-like
SNP_15771_A_23606300	NC_021162.1	Ca_Kabuli_Chr03	23606300	AA	GG	GG	INTERGENIC		
SNP_15772_A_23736062	NC_021162.1	Ca_Kabuli_Chr03	23736062	AA	GG	GG	URR	101500411	uncharacterized LOC101500411
SNP_15773_A_23738807	NC_021162.1	Ca_Kabuli_Chr03	23738807	CC	TT	TT	URR	101514868	serine/threonine-protein phosphatase 7 long form homolog
SNP_15774_A_23738808	NC_021162.1	Ca_Kabuli_Chr03	23738808	AA	TT	TT	URR	101514868	serine/threonine-protein phosphatase 7 long form homolog
SNP_15775_A_23738820	NC_021162.1	Ca_Kabuli_Chr03	23738820	AA	TT	TT	URR	101514868	serine/threonine-protein phosphatase 7 long form homolog
SNP_15776_A_23738821	NC_021162.1	Ca_Kabuli_Chr03	23738821	GG	CC	CC	URR	101514868	serine/threonine-protein phosphatase 7 long form homolog
SNP_15777_A_23738829	NC_021162.1	Ca_Kabuli_Chr03	23738829	TT	CC	CC	URR	101514868	serine/threonine-protein phosphatase 7 long form homolog
SNP_15778_A_23751881	NC_021162.1	Ca_Kabuli_Chr03	23751881	AA	GG	GG	INTRON	101500721	sterol 3-beta-glucosyltransferase UGT80A2-like
SNP_15779_A_23758881	NC_021162.1	Ca_Kabuli_Chr03	23758881	CC	TT	TT	URR	101500721	sterol 3-beta-glucosyltransferase UGT80A2-like

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SNP_15780_A_23763347	NC_021162.1	Ca_Kabuli_Chr03	23763347	AA	GG	GG	DRR	101501150	protein LUTEIN DEFICIENT 5, chloroplastic
SNP_15781_A_23763353	NC_021162.1	Ca_Kabuli_Chr03	23763353	GG	TT	TT	DRR	101501150	protein LUTEIN DEFICIENT 5, chloroplastic
SNP_15782_A_23795665	NC_021162.1	Ca_Kabuli_Chr03	23795665	AA	CC	CC	INTRON	101502312	ALBINO3-like protein 2, chloroplastic
SNP_15783_A_23795667	NC_021162.1	Ca_Kabuli_Chr03	23795667	CC	TT	TT	INTRON	101502312	ALBINO3-like protein 2, chloroplastic
SNP_15784_A_23795690	NC_021162.1	Ca_Kabuli_Chr03	23795690	AA	TT	TT	INTRON	101502312	ALBINO3-like protein 2, chloroplastic
SNP_15786_A_23843426	NC_021162.1	Ca_Kabuli_Chr03	23843426	TT	CC	CC	INTERGENIC		
SNP_15787_A_23843430	NC_021162.1	Ca_Kabuli_Chr03	23843430	TT	GG	GG	INTERGENIC		
SNP_15788_A_23855473	NC_021162.1	Ca_Kabuli_Chr03	23855473	AA	TT	TT	URR	101515194	vicilin-like
SNP_15789_A_23855476	NC_021162.1	Ca_Kabuli_Chr03	23855476	AA	TT	TT	URR	101515194	vicilin-like
SNP_15790_A_23857333	NC_021162.1	Ca_Kabuli_Chr03	23857333	GG	TT	TT	INTERGENIC		
SNP_15791_A_23945963	NC_021162.1	Ca_Kabuli_Chr03	23945963	AA	GG	GG	URR	101507887	probable tyrosine-protein phosphatase At1g05000
SNP_15792_A_23946006	NC_021162.1	Ca_Kabuli_Chr03	23946006	AA	GG	GG	URR	101507887	probable tyrosine-protein phosphatase At1g05000
SNP_15793_A_23946041	NC_021162.1	Ca_Kabuli_Chr03	23946041	TT	AA	AA	URR	101507887	probable tyrosine-protein phosphatase At1g05000
SNP_15794_A_23948711	NC_021162.1	Ca_Kabuli_Chr03	23948711	AA	CC	CC	INTERGENIC		
SNP_15795_A_23948970	NC_021162.1	Ca_Kabuli_Chr03	23948970	AA	CC	CC	INTERGENIC		
SNP_15796_A_23948977	NC_021162.1	Ca_Kabuli_Chr03	23948977	TT	GG	GG	INTERGENIC		
SNP_15797_A_23949003	NC_021162.1	Ca_Kabuli_Chr03	23949003	TT	CC	CC	INTERGENIC		
SNP_15798_A_23949010	NC_021162.1	Ca_Kabuli_Chr03	23949010	GG	AA	AA	INTERGENIC		
SNP_15799_A_23949012	NC_021162.1	Ca_Kabuli_Chr03	23949012	TT	CC	CC	INTERGENIC		
SNP_15800_A_23949191	NC_021162.1	Ca_Kabuli_Chr03	23949191	AA	GG	GG	INTERGENIC		
SNP_15801_A_23949364	NC_021162.1	Ca_Kabuli_Chr03	23949364	AA	GG	GG	INTERGENIC		
SNP_15802_A_23949501	NC_021162.1	Ca_Kabuli_Chr03	23949501	TT	CC	CC	INTERGENIC		

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SNP_15803_A_23949503	NC_021162.1	Ca_Kabuli_Chr03	23949503	TT	CC	CC	INTERGENIC		
SNP_15804_A_23949510	NC_021162.1	Ca_Kabuli_Chr03	23949510	TT	CC	CC	INTERGENIC		
SNP_15805_A_23949537	NC_021162.1	Ca_Kabuli_Chr03	23949537	TT	CC	CC	INTERGENIC		
SNP_15806_A_23949543	NC_021162.1	Ca_Kabuli_Chr03	23949543	AA	CC	CC	INTERGENIC		
SNP_15807_A_23949558	NC_021162.1	Ca_Kabuli_Chr03	23949558	AA	GG	GG	INTERGENIC		
SNP_15808_A_23949589	NC_021162.1	Ca_Kabuli_Chr03	23949589	GG	AA	AA	INTERGENIC		
SNP_15809_A_23992612	NC_021162.1	Ca_Kabuli_Chr03	23992612	AA	GG	GG	INTERGENIC		
SNP_15810_A_24010837	NC_021162.1	Ca_Kabuli_Chr03	24010837	TT	AA	AA	INTERGENIC		
SNP_15811_A_24032461	NC_021162.1	Ca_Kabuli_Chr03	24032461	CC	TT	TT	INTERGENIC		
SNP_15813_A_24112679	NC_021162.1	Ca_Kabuli_Chr03	24112679	TT	CC	CC	DRR	101513997	ER membrane protein complex subunit 10
SNP_15814_A_24112686	NC_021162.1	Ca_Kabuli_Chr03	24112686	TT	AA	AA	DRR	101513997	ER membrane protein complex subunit 10
SNP_15816_A_24160408	NC_021162.1	Ca_Kabuli_Chr03	24160408	AA	GG	GG	INTRON	101488841	phospholipase A(1) LCAT3
SNP_15817_A_24174652	NC_021162.1	Ca_Kabuli_Chr03	24174652	TT	CC	CC	INTERGENIC		
SNP_15818_A_24174698	NC_021162.1	Ca_Kabuli_Chr03	24174698	TT	GG	GG	INTERGENIC		
SNP_15819_A_24174727	NC_021162.1	Ca_Kabuli_Chr03	24174727	AA	GG	GG	INTERGENIC		
SNP_15820_A_24174758	NC_021162.1	Ca_Kabuli_Chr03	24174758	AA	TT	TT	INTERGENIC		
SNP_15821_A_24174765	NC_021162.1	Ca_Kabuli_Chr03	24174765	TT	CC	CC	INTERGENIC		
SNP_15822_A_24174893	NC_021162.1	Ca_Kabuli_Chr03	24174893	TT	CC	CC	INTERGENIC		
SNP_15823_A_24175300	NC_021162.1	Ca_Kabuli_Chr03	24175300	GG	AA	AA	INTERGENIC		
SNP_15824_A_24177255	NC_021162.1	Ca_Kabuli_Chr03	24177255	CC	TT	TT	INTERGENIC		
SNP_15825_A_24177505	NC_021162.1	Ca_Kabuli_Chr03	24177505	TT	GG	GG	INTERGENIC		
SNP_15826_A_24187072	NC_021162.1	Ca_Kabuli_Chr03	24187072	AA	GG	GG	INTERGENIC		

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SNP_15827_A_24187382	NC_021162.1	Ca_Kabuli_Chr03	24187382	GG	AA	AA	INTERGENIC			
SNP_15828_A_24187421	NC_021162.1	Ca_Kabuli_Chr03	24187421	GG	AA	AA	INTERGENIC			
SNP_15829_A_24187437	NC_021162.1	Ca_Kabuli_Chr03	24187437	TT	CC	CC	INTERGENIC			
SNP_15830_A_24187451	NC_021162.1	Ca_Kabuli_Chr03	24187451	AA	TT	TT	INTERGENIC			
SNP_15831_A_24187452	NC_021162.1	Ca_Kabuli_Chr03	24187452	AA	GG	GG	INTERGENIC			
SNP_15832_A_24187453	NC_021162.1	Ca_Kabuli_Chr03	24187453	AA	TT	TT	INTERGENIC			
SNP_15833_A_24187457	NC_021162.1	Ca_Kabuli_Chr03	24187457	CC	AA	GG	INTERGENIC			
SNP_15834_A_24187505	NC_021162.1	Ca_Kabuli_Chr03	24187505	TT	AA	AA	INTERGENIC			
SNP_15835_A_24187508	NC_021162.1	Ca_Kabuli_Chr03	24187508	CC	AA	AA	INTERGENIC			
SNP_15836_A_24187519	NC_021162.1	Ca_Kabuli_Chr03	24187519	GG	AA	AA	INTERGENIC			
SNP_15837_A_24187520	NC_021162.1	Ca_Kabuli_Chr03	24187520	AA	GG	GG	INTERGENIC			
SNP_15838_A_24187535	NC_021162.1	Ca_Kabuli_Chr03	24187535	GG	AA	AA	INTERGENIC			
SNP_15840_A_24187558	NC_021162.1	Ca_Kabuli_Chr03	24187558	AA	CC	CC	INTERGENIC			
SNP_15841_A_24187568	NC_021162.1	Ca_Kabuli_Chr03	24187568	GG	AA	AA	INTERGENIC			
SNP_15842_A_24187571	NC_021162.1	Ca_Kabuli_Chr03	24187571	GG	TT	TT	INTERGENIC			
SNP_15843_A_24187577	NC_021162.1	Ca_Kabuli_Chr03	24187577	TT	AA	AA	INTERGENIC			
SNP_15844_A_24187595	NC_021162.1	Ca_Kabuli_Chr03	24187595	AA	GG	GG	INTERGENIC			
SNP_15845_A_24187734	NC_021162.1	Ca_Kabuli_Chr03	24187734	TT	AA	AA	INTERGENIC			
SNP_15846_A_24187746	NC_021162.1	Ca_Kabuli_Chr03	24187746	AA	CC	CC	INTERGENIC			
SNP_15847_A_24187774	NC_021162.1	Ca_Kabuli_Chr03	24187774	AA	TT	TT	INTERGENIC			
SNP_15848_A_24187819	NC_021162.1	Ca_Kabuli_Chr03	24187819	TT	GG	GG	INTERGENIC			
SNP_15849_A_24187823	NC_021162.1	Ca_Kabuli_Chr03	24187823	AA	GG	GG	INTERGENIC			

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SNP_15850_A_24187850	NC_021162.1	Ca_Kabuli_Chr03	24187850	AA	GG	GG	INTERGENIC		
SNP_15851_A_24187853	NC_021162.1	Ca_Kabuli_Chr03	24187853	CC	TT	TT	INTERGENIC		
SNP_15852_A_24187863	NC_021162.1	Ca_Kabuli_Chr03	24187863	CC	TT	TT	INTERGENIC		
SNP_15853_A_24187914	NC_021162.1	Ca_Kabuli_Chr03	24187914	AA	TT	TT	INTERGENIC		
SNP_15854_A_24187915	NC_021162.1	Ca_Kabuli_Chr03	24187915	AA	CC	CC	INTERGENIC		
SNP_15855_A_24187955	NC_021162.1	Ca_Kabuli_Chr03	24187955	TT	CC	CC	INTERGENIC		
SNP_15856_A_24187970	NC_021162.1	Ca_Kabuli_Chr03	24187970	AA	GG	GG	INTERGENIC		
SNP_15857_A_24187988	NC_021162.1	Ca_Kabuli_Chr03	24187988	TT	CC	CC	INTERGENIC		
SNP_15858_A_24187995	NC_021162.1	Ca_Kabuli_Chr03	24187995	GG	AA	AA	INTERGENIC		
SNP_15859_A_24188025	NC_021162.1	Ca_Kabuli_Chr03	24188025	CC	TT	TT	INTERGENIC		
SNP_15861_A_24270461	NC_021162.1	Ca_Kabuli_Chr03	24270461	TT	AA	AA	URR	101493167	uncharacterized LOC101493167
SNP_15862_A_24270612	NC_021162.1	Ca_Kabuli_Chr03	24270612	CC	TT	TT	URR	101493167	uncharacterized LOC101493167
SNP_15863_A_24272955	NC_021162.1	Ca_Kabuli_Chr03	24272955	CC	AA	AA	INTERGENIC		
SNP_15865_A_24273004	NC_021162.1	Ca_Kabuli_Chr03	24273004	TT	CC	CC	INTERGENIC		
SNP_15866_A_24277694	NC_021162.1	Ca_Kabuli_Chr03	24277694	CC	TT	TT	INTERGENIC		
SNP_15867_A_24295655	NC_021162.1	Ca_Kabuli_Chr03	24295655	AA	GG	GG	INTERGENIC		
SNP_15868_A_24320298	NC_021162.1	Ca_Kabuli_Chr03	24320298	GG	AA	AA	SYNONYMOUS_CODING	101490891	ATP-dependent DNA helicase PIF1-like
SNP_15869_A_24342458	NC_021162.1	Ca_Kabuli_Chr03	24342458	AA	GG	GG	DRR	101496290	cytochrome c-2
SNP_15870_A_24409247	NC_021162.1	Ca_Kabuli_Chr03	24409247	GG	AA	AA	INTERGENIC		
SNP_15871_A_24422419	NC_021162.1	Ca_Kabuli_Chr03	24422419	TT	CC	CC	INTERGENIC		
SNP_15872_A_24483713	NC_021162.1	Ca_Kabuli_Chr03	24483713	TT	AA	AA	URR	101500304	uncharacterized protein C106.07c
SNP_15873_A_24508734	NC_021162.1	Ca_Kabuli_Chr03	24508734	TT	CC	CC	URR	101501458	uncharacterized LOC101501458

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15874_A_24534422	NC_021162.1	Ca_Kabuli_Chr03	24534422	GG	AA	AA	URR	101502836	cysteine protease ATG4
SNP_15875_A_24584281	NC_021162.1	Ca_Kabuli_Chr03	24584281	CC	TT	TT	URR	101493491	putative glucan endo-1,3-beta-glucosidase GVI
SNP_15876_A_24594534	NC_021162.1	Ca_Kabuli_Chr03	24594534	CC	TT	TT	INTERGENIC		
SNP_15877_A_24594786	NC_021162.1	Ca_Kabuli_Chr03	24594786	CC	AA	AA	INTERGENIC		
SNP_15878_A_24613182	NC_021162.1	Ca_Kabuli_Chr03	24613182	AA	GG	GG	URR	101494445	glucan endo-1,3-beta-glucosidase-like
SNP_15879_A_24613524	NC_021162.1	Ca_Kabuli_Chr03	24613524	TT	CC	CC	URR	101494445	glucan endo-1,3-beta-glucosidase-like
SNP_15880_A_24613566	NC_021162.1	Ca_Kabuli_Chr03	24613566	AA	GG	GG	URR	101494445	glucan endo-1,3-beta-glucosidase-like
SNP_15881_A_24649653	NC_021162.1	Ca_Kabuli_Chr03	24649653	GG	AA	AA	INTERGENIC		
SNP_15882_A_24649729	NC_021162.1	Ca_Kabuli_Chr03	24649729	GG	TT	TT	INTERGENIC		
SNP_15883_A_24653411	NC_021162.1	Ca_Kabuli_Chr03	24653411	AA	GG	GG	INTERGENIC		
SNP_15885_A_24790092	NC_021162.1	Ca_Kabuli_Chr03	24790092	CC	TT	TT	INTERGENIC		
SNP_15886_A_24791035	NC_021162.1	Ca_Kabuli_Chr03	24791035	GG	CC	CC	INTERGENIC		
SNP_15887_A_24796069	NC_021162.1	Ca_Kabuli_Chr03	24796069	CC	AA	AA	INTRON	101496071	Unknown function
SNP_15888_A_24796317	NC_021162.1	Ca_Kabuli_Chr03	24796317	AA	GG	GG	INTRON	101496071	Unknown function
SNP_15889_A_24796328	NC_021162.1	Ca_Kabuli_Chr03	24796328	AA	TT	TT	INTRON	101496071	Unknown function
SNP_15890_A_24796347	NC_021162.1	Ca_Kabuli_Chr03	24796347	AA	CC	CC	INTRON	101496071	Unknown function
SNP_15891_A_24796349	NC_021162.1	Ca_Kabuli_Chr03	24796349	TT	CC	CC	INTRON	101496071	Unknown function
SNP_15892_A_24796400	NC_021162.1	Ca_Kabuli_Chr03	24796400	TT	CC	CC	INTRON	101496071	Unknown function
SNP_15893_A_24796488	NC_021162.1	Ca_Kabuli_Chr03	24796488	CC	AA	AA	INTRON	101496071	Unknown function
SNP_15894_A_24796528	NC_021162.1	Ca_Kabuli_Chr03	24796528	CC	TT	TT	INTRON	101496071	Unknown function
SNP_15895_A_24796535	NC_021162.1	Ca_Kabuli_Chr03	24796535	AA	TT	TT	INTRON	101496071	Unknown function
SNP_15896_A_24796575	NC_021162.1	Ca_Kabuli_Chr03	24796575	CC	TT	TT	INTRON	101496071	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15897_A_24796582	NC_021162.1	Ca_Kabuli_Chr03	24796582	CC	AA	AA	INTRON	101496071	Unknown function
SNP_15898_A_24796615	NC_021162.1	Ca_Kabuli_Chr03	24796615	AA	CC	CC	INTRON	101496071	Unknown function
SNP_15899_A_24796712	NC_021162.1	Ca_Kabuli_Chr03	24796712	AA	TT	TT	INTRON	101496071	Unknown function
SNP_15900_A_24796715	NC_021162.1	Ca_Kabuli_Chr03	24796715	CC	TT	TT	INTRON	101496071	Unknown function
SNP_15901_A_24813967	NC_021162.1	Ca_Kabuli_Chr03	24813967	CC	AA	AA	INTERGENIC		
SNP_15902_A_24973104	NC_021162.1	Ca_Kabuli_Chr03	24973104	CC	TT	TT	INTERGENIC		
SNP_15904_A_25012067	NC_021162.1	Ca_Kabuli_Chr03	25012067	AA	TT	TT	INTERGENIC		
SNP_15905_A_25040615	NC_021162.1	Ca_Kabuli_Chr03	25040615	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15906_A_25040663	NC_021162.1	Ca_Kabuli_Chr03	25040663	GG	AA	AA	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15907_A_25040673	NC_021162.1	Ca_Kabuli_Chr03	25040673	GG	TT	TT	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15908_A_25040718	NC_021162.1	Ca_Kabuli_Chr03	25040718	TT	CC	CC	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15909_A_25040730	NC_021162.1	Ca_Kabuli_Chr03	25040730	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15910_A_25040745	NC_021162.1	Ca_Kabuli_Chr03	25040745	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15911_A_25040798	NC_021162.1	Ca_Kabuli_Chr03	25040798	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15912_A_25040800	NC_021162.1	Ca_Kabuli_Chr03	25040800	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15913_A_25040827	NC_021162.1	Ca_Kabuli_Chr03	25040827	AA	GG	GG	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15914_A_25040835	NC_021162.1	Ca_Kabuli_Chr03	25040835	AA	TT	TT	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15915_A_25040838	NC_021162.1	Ca_Kabuli_Chr03	25040838	TT	CC	CC	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15916_A_25040844	NC_021162.1	Ca_Kabuli_Chr03	25040844	TT	CC	CC	DRR	101514983	chloroplastic group IIB intron splicing facilitator CRS2-B, chloroplastic-like
SNP_15917_A_25154718	NC_021162.1	Ca_Kabuli_Chr03	25154718	GG	TT	TT	INTERGENIC		
SNP_15918_A_25185782	NC_021162.1	Ca_Kabuli_Chr03	25185782	CC	TT	TT	INTERGENIC		
SNP_15919_A_25289371	NC_021162.1	Ca_Kabuli_Chr03	25289371	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15920_A_25317478	NC_021162.1	Ca_Kabuli_Chr03	25317478	AA	TT	TT	INTERGENIC		
SNP_15921_A_25317479	NC_021162.1	Ca_Kabuli_Chr03	25317479	AA	TT	TT	INTERGENIC		
SNP_15922_A_25360984	NC_021162.1	Ca_Kabuli_Chr03	25360984	CC	TT	TT	DRR	101499765	acyltransferase-like protein At3g26840, chloroplastic
SNP_15923_A_25391076	NC_021162.1	Ca_Kabuli_Chr03	25391076	GG	AA	AA	INTERGENIC		
SNP_15924_A_25405529	NC_021162.1	Ca_Kabuli_Chr03	25405529	TT	AA	AA	INTERGENIC		
SNP_15925_A_25546017	NC_021162.1	Ca_Kabuli_Chr03	25546017	AA	TT	TT	INTERGENIC		
SNP_15927_A_25625867	NC_021162.1	Ca_Kabuli_Chr03	25625867	AA	GG	GG	DRR	101508741	uncharacterized LOC101508741
SNP_15928_A_25625873	NC_021162.1	Ca_Kabuli_Chr03	25625873	AA	GG	GG	DRR	101508741	uncharacterized LOC101508741
SNP_15930_A_25765370	NC_021162.1	Ca_Kabuli_Chr03	25765370	TT	AA	AA	DRR	101509380	CLAVATA3/ESR (CLE)-related protein 4A-2-like
SNP_15931_A_25811254	NC_021162.1	Ca_Kabuli_Chr03	25811254	CC	TT	TT	INTERGENIC		
SNP_15932_A_25813360	NC_021162.1	Ca_Kabuli_Chr03	25813360	AA	TT	TT	INTERGENIC		
SNP_15933_A_25813369	NC_021162.1	Ca_Kabuli_Chr03	25813369	TT	AA	AA	INTERGENIC		
SNP_15934_A_25827863	NC_021162.1	Ca_Kabuli_Chr03	25827863	GG	TT	TT	INTERGENIC		
SNP_15935_A_25869863	NC_021162.1	Ca_Kabuli_Chr03	25869863	CC	GG	GG	DRR	101510677	uncharacterized LOC101510677
SNP_15936_A_25872806	NC_021162.1	Ca_Kabuli_Chr03	25872806	AA	CC	CC	URR	101510677	uncharacterized LOC101510677
SNP_15937_A_25872828	NC_021162.1	Ca_Kabuli_Chr03	25872828	AA	GG	GG	URR	101510677	uncharacterized LOC101510677
SNP_15938_A_25872829	NC_021162.1	Ca_Kabuli_Chr03	25872829	GG	AA	AA	URR	101510677	uncharacterized LOC101510677
SNP_15939_A_25872988	NC_021162.1	Ca_Kabuli_Chr03	25872988	GG	AA	AA	URR	101510677	uncharacterized LOC101510677
SNP_15940_A_25885789	NC_021162.1	Ca_Kabuli_Chr03	25885789	TT	CC	CC	INTERGENIC		
SNP_15941_A_25885798	NC_021162.1	Ca_Kabuli_Chr03	25885798	AA	GG	GG	INTERGENIC		
SNP_15942_A_25886077	NC_021162.1	Ca_Kabuli_Chr03	25886077	AA	TT	TT	INTERGENIC		
SNP_15943_A_25886087	NC_021162.1	Ca_Kabuli_Chr03	25886087	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15944_A_25886088	NC_021162.1	Ca_Kabuli_Chr03	25886088	AA	TT	TT	INTERGENIC			
SNP_15945_A_25886103	NC_021162.1	Ca_Kabuli_Chr03	25886103	AA	GG	GG	INTERGENIC			
SNP_15946_A_25886132	NC_021162.1	Ca_Kabuli_Chr03	25886132	CC	TT	TT	INTERGENIC			
SNP_15947_A_25886163	NC_021162.1	Ca_Kabuli_Chr03	25886163	AA	TT	TT	INTERGENIC			
SNP_15948_A_25886164	NC_021162.1	Ca_Kabuli_Chr03	25886164	TT	AA	AA	INTERGENIC			
SNP_15949_A_25886183	NC_021162.1	Ca_Kabuli_Chr03	25886183	CC	GG	GG	INTERGENIC			
SNP_15950_A_25886194	NC_021162.1	Ca_Kabuli_Chr03	25886194	AA	GG	GG	INTERGENIC			
SNP_15951_A_25886220	NC_021162.1	Ca_Kabuli_Chr03	25886220	CC	AA	AA	INTERGENIC			
SNP_15952_A_25886242	NC_021162.1	Ca_Kabuli_Chr03	25886242	GG	AA	AA	INTERGENIC			
SNP_15953_A_25886382	NC_021162.1	Ca_Kabuli_Chr03	25886382	GG	AA	AA	INTERGENIC			
SNP_15954_A_25888027	NC_021162.1	Ca_Kabuli_Chr03	25888027	GG	AA	AA	INTERGENIC			
SNP_15956_A_25888108	NC_021162.1	Ca_Kabuli_Chr03	25888108	CC	GG	GG	INTERGENIC			
SNP_15957_A_25888172	NC_021162.1	Ca_Kabuli_Chr03	25888172	TT	AA	AA	INTERGENIC			
SNP_15958_A_25888215	NC_021162.1	Ca_Kabuli_Chr03	25888215	CC	TT	TT	INTERGENIC			
SNP_15959_A_25888226	NC_021162.1	Ca_Kabuli_Chr03	25888226	TT	CC	CC	INTERGENIC			
SNP_15960_A_25888497	NC_021162.1	Ca_Kabuli_Chr03	25888497	GG	AA	AA	INTERGENIC			
SNP_15961_A_25888499	NC_021162.1	Ca_Kabuli_Chr03	25888499	AA	CC	CC	INTERGENIC			
SNP_15962_A_25888504	NC_021162.1	Ca_Kabuli_Chr03	25888504	AA	GG	GG	INTERGENIC			
SNP_15963_A_25888512	NC_021162.1	Ca_Kabuli_Chr03	25888512	TT	CC	CC	INTERGENIC			
SNP_15964_A_25888573	NC_021162.1	Ca_Kabuli_Chr03	25888573	AA	GG	GG	INTERGENIC			
SNP_15965_A_25888585	NC_021162.1	Ca_Kabuli_Chr03	25888585	AA	GG	GG	INTERGENIC			
SNP_15966_A_25888659	NC_021162.1	Ca_Kabuli_Chr03	25888659	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_15967_A_25888665	NC_021162.1	Ca_Kabuli_Chr03	25888665	AA	TT	TT	INTERGENIC			
SNP_15968_A_25888698	NC_021162.1	Ca_Kabuli_Chr03	25888698	AA	TT	TT	INTERGENIC			
SNP_15969_A_25888753	NC_021162.1	Ca_Kabuli_Chr03	25888753	TT	GG	GG	INTERGENIC			
SNP_15971_A_25888961	NC_021162.1	Ca_Kabuli_Chr03	25888961	TT	CC	CC	INTERGENIC			
SNP_15972_A_25888970	NC_021162.1	Ca_Kabuli_Chr03	25888970	AA	TT	TT	INTERGENIC			
SNP_15973_A_25888971	NC_021162.1	Ca_Kabuli_Chr03	25888971	CC	AA	AA	INTERGENIC			
SNP_15974_A_25888986	NC_021162.1	Ca_Kabuli_Chr03	25888986	GG	AA	AA	INTERGENIC			
SNP_15975_A_25889032	NC_021162.1	Ca_Kabuli_Chr03	25889032	CC	TT	TT	INTERGENIC			
SNP_15976_A_25889053	NC_021162.1	Ca_Kabuli_Chr03	25889053	TT	CC	CC	INTERGENIC			
SNP_15977_A_25889085	NC_021162.1	Ca_Kabuli_Chr03	25889085	AA	GG	GG	INTERGENIC			
SNP_15979_A_25889157	NC_021162.1	Ca_Kabuli_Chr03	25889157	CC	TT	TT	INTERGENIC			
SNP_15980_A_25889158	NC_021162.1	Ca_Kabuli_Chr03	25889158	AA	TT	TT	INTERGENIC			
SNP_15981_A_25889389	NC_021162.1	Ca_Kabuli_Chr03	25889389	CC	TT	TT	INTERGENIC			
SNP_15982_A_25889405	NC_021162.1	Ca_Kabuli_Chr03	25889405	CC	AA	AA	INTERGENIC			
SNP_15983_A_25889416	NC_021162.1	Ca_Kabuli_Chr03	25889416	TT	GG	GG	INTERGENIC			
SNP_15984_A_25889604	NC_021162.1	Ca_Kabuli_Chr03	25889604	AA	TT	TT	INTERGENIC			
SNP_15985_A_25889605	NC_021162.1	Ca_Kabuli_Chr03	25889605	TT	AA	AA	INTERGENIC			
SNP_15987_A_25889650	NC_021162.1	Ca_Kabuli_Chr03	25889650	GG	AA	AA	INTERGENIC			
SNP_15988_A_25890509	NC_021162.1	Ca_Kabuli_Chr03	25890509	TT	CC	CC	INTERGENIC			
SNP_15989_A_25890789	NC_021162.1	Ca_Kabuli_Chr03	25890789	AA	TT	TT	INTERGENIC			
SNP_15990_A_25891218	NC_021162.1	Ca_Kabuli_Chr03	25891218	AA	TT	TT	INTERGENIC			
SNP_15991_A_25891463	NC_021162.1	Ca_Kabuli_Chr03	25891463	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_15992_A_25891464	NC_021162.1	Ca_Kabuli_Chr03	25891464	TT	GG	GG	INTERGENIC		
SNP_15993_A_25891471	NC_021162.1	Ca_Kabuli_Chr03	25891471	TT	AA	AA	INTERGENIC		
SNP_15995_A_25892027	NC_021162.1	Ca_Kabuli_Chr03	25892027	TT	CC	CC	INTERGENIC		
SNP_15996_A_25971833	NC_021162.1	Ca_Kabuli_Chr03	25971833	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_15997_A_25971852	NC_021162.1	Ca_Kabuli_Chr03	25971852	TT	CC	CC	URR	101513019	uncharacterized LOC101513019
SNP_15998_A_25971861	NC_021162.1	Ca_Kabuli_Chr03	25971861	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_15999_A_25971878	NC_021162.1	Ca_Kabuli_Chr03	25971878	TT	AA	AA	URR	101513019	uncharacterized LOC101513019
SNP_16000_A_25972042	NC_021162.1	Ca_Kabuli_Chr03	25972042	TT	CC	CC	URR	101513019	uncharacterized LOC101513019
SNP_16001_A_25972178	NC_021162.1	Ca_Kabuli_Chr03	25972178	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_16002_A_25972211	NC_021162.1	Ca_Kabuli_Chr03	25972211	TT	CC	CC	URR	101513019	uncharacterized LOC101513019
SNP_16003_A_25972250	NC_021162.1	Ca_Kabuli_Chr03	25972250	TT	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_16004_A_25972368	NC_021162.1	Ca_Kabuli_Chr03	25972368	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_16005_A_25972426	NC_021162.1	Ca_Kabuli_Chr03	25972426	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_16006_A_25972441	NC_021162.1	Ca_Kabuli_Chr03	25972441	AA	GG	GG	URR	101513019	uncharacterized LOC101513019
SNP_16008_A_25972449	NC_021162.1	Ca_Kabuli_Chr03	25972449	TT	CC	CC	URR	101513019	uncharacterized LOC101513019
SNP_16011_A_26004985	NC_021162.1	Ca_Kabuli_Chr03	26004985	TT	GG	GG	INTERGENIC		
SNP_16012_A_26014355	NC_021162.1	Ca_Kabuli_Chr03	26014355	GG	AA	AA	INTERGENIC		
SNP_16014_A_26042030	NC_021162.1	Ca_Kabuli_Chr03	26042030	CC	TT	TT	INTRON	101505971	uncharacterized LOC101505971
SNP_16015_A_26042424	NC_021162.1	Ca_Kabuli_Chr03	26042424	TT	CC	CC	INTRON	101505971	uncharacterized LOC101505971
SNP_16016_A_26042447	NC_021162.1	Ca_Kabuli_Chr03	26042447	TT	AA	AA	INTRON	101505971	uncharacterized LOC101505971
SNP_16017_A_26042477	NC_021162.1	Ca_Kabuli_Chr03	26042477	TT	CC	CC	INTRON	101505971	uncharacterized LOC101505971
SNP_16018_A_26042549	NC_021162.1	Ca_Kabuli_Chr03	26042549	AA	CC	CC	INTRON	101505971	uncharacterized LOC101505971

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16019_A_26070575	NC_021162.1	Ca_Kabuli_Chr03	26070575	AA	GG	GG	INTERGENIC		
SNP_16020_A_26070813	NC_021162.1	Ca_Kabuli_Chr03	26070813	AA	TT	TT	INTERGENIC		
SNP_16022_A_26071315	NC_021162.1	Ca_Kabuli_Chr03	26071315	GG	AA	AA	INTERGENIC		
SNP_16023_A_26071332	NC_021162.1	Ca_Kabuli_Chr03	26071332	TT	AA	AA	INTERGENIC		
SNP_16024_A_26071524	NC_021162.1	Ca_Kabuli_Chr03	26071524	GG	CC	CC	INTERGENIC		
SNP_16025_A_26071763	NC_021162.1	Ca_Kabuli_Chr03	26071763	GG	CC	CC	INTERGENIC		
SNP_16027_A_26071929	NC_021162.1	Ca_Kabuli_Chr03	26071929	AA	CC	CC	INTERGENIC		
SNP_16028_A_26071936	NC_021162.1	Ca_Kabuli_Chr03	26071936	GG	AA	AA	INTERGENIC		
SNP_16029_A_26074399	NC_021162.1	Ca_Kabuli_Chr03	26074399	AA	TT	TT	INTRON	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16030_A_26074424	NC_021162.1	Ca_Kabuli_Chr03	26074424	CC	TT	TT	INTRON	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16031_A_26074450	NC_021162.1	Ca_Kabuli_Chr03	26074450	TT	GG	GG	INTRON	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16032_A_26095480	NC_021162.1	Ca_Kabuli_Chr03	26095480	CC	AA	AA	INTRON	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16033_A_26101426	NC_021162.1	Ca_Kabuli_Chr03	26101426	AA	GG	GG	URR	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16034_A_26101750	NC_021162.1	Ca_Kabuli_Chr03	26101750	AA	TT	TT	URR	101506600	3,7-dimethylxanthine N-methyltransferase-like
SNP_16035_A_26108236	NC_021162.1	Ca_Kabuli_Chr03	26108236	TT	CC	CC	INTRON	101515408	7-methylxanthosine synthase 1-like
SNP_16037_A_26114159	NC_021162.1	Ca_Kabuli_Chr03	26114159	CC	AA	AA	INTRON	101515408	7-methylxanthosine synthase 1-like
SNP_16038_A_26114176	NC_021162.1	Ca_Kabuli_Chr03	26114176	AA	TT	TT	INTRON	101515408	7-methylxanthosine synthase 1-like
SNP_16040_A_26114539	NC_021162.1	Ca_Kabuli_Chr03	26114539	CC	GG	GG	INTRON	101515408	7-methylxanthosine synthase 1-like
SNP_16041_A_26114734	NC_021162.1	Ca_Kabuli_Chr03	26114734	TT	CC	CC	INTERGENIC		
SNP_16042_A_26114742	NC_021162.1	Ca_Kabuli_Chr03	26114742	CC	TT	TT	INTERGENIC		
SNP_16043_A_26114743	NC_021162.1	Ca_Kabuli_Chr03	26114743	GG	AA	AA	INTERGENIC		
SNP_16044_A_26114858	NC_021162.1	Ca_Kabuli_Chr03	26114858	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_16045_A_26114967	NC_021162.1	Ca_Kabuli_Chr03	26114967	CC	TT	TT	INTERGENIC			
SNP_16046_A_26114972	NC_021162.1	Ca_Kabuli_Chr03	26114972	AA	TT	TT	INTERGENIC			
SNP_16048_A_26115036	NC_021162.1	Ca_Kabuli_Chr03	26115036	AA	GG	GG	INTERGENIC			
SNP_16049_A_26115051	NC_021162.1	Ca_Kabuli_Chr03	26115051	GG	CC	CC	INTERGENIC			
SNP_16050_A_26115162	NC_021162.1	Ca_Kabuli_Chr03	26115162	AA	TT	TT	INTERGENIC			
SNP_16051_A_26115199	NC_021162.1	Ca_Kabuli_Chr03	26115199	TT	AA	AA	INTERGENIC			
SNP_16052_A_26115202	NC_021162.1	Ca_Kabuli_Chr03	26115202	CC	GG	GG	INTERGENIC			
SNP_16053_A_26115226	NC_021162.1	Ca_Kabuli_Chr03	26115226	AA	TT	TT	INTERGENIC			
SNP_16054_A_26115322	NC_021162.1	Ca_Kabuli_Chr03	26115322	TT	AA	AA	INTERGENIC			
SNP_16055_A_26115384	NC_021162.1	Ca_Kabuli_Chr03	26115384	AA	TT	TT	INTERGENIC			
SNP_16056_A_26115435	NC_021162.1	Ca_Kabuli_Chr03	26115435	TT	GG	GG	INTERGENIC			
SNP_16057_A_26115491	NC_021162.1	Ca_Kabuli_Chr03	26115491	AA	GG	GG	INTERGENIC			
SNP_16058_A_26115543	NC_021162.1	Ca_Kabuli_Chr03	26115543	GG	AA	AA	INTERGENIC			
SNP_16059_A_26115748	NC_021162.1	Ca_Kabuli_Chr03	26115748	AA	TT	TT	INTERGENIC			
SNP_16060_A_26115856	NC_021162.1	Ca_Kabuli_Chr03	26115856	GG	CC	CC	INTERGENIC			
SNP_16061_A_26115864	NC_021162.1	Ca_Kabuli_Chr03	26115864	GG	AA	AA	INTERGENIC			
SNP_16062_A_26115961	NC_021162.1	Ca_Kabuli_Chr03	26115961	AA	GG	GG	INTERGENIC			
SNP_16063_A_26116717	NC_021162.1	Ca_Kabuli_Chr03	26116717	CC	AA	AA	URR	101515408	7-methylxanthosine synthase 1-like	
SNP_16064_A_26179972	NC_021162.1	Ca_Kabuli_Chr03	26179972	TT	CC	CC	INTERGENIC			
SNP_16067_A_26433067	NC_021162.1	Ca_Kabuli_Chr03	26433067	GG	AA	AA	INTERGENIC			
SNP_16068_A_26439635	NC_021162.1	Ca_Kabuli_Chr03	26439635	CC	TT	TT	INTRON	101508200	protein FLOWERING LOCUS T-like	
SNP_16069_A_26439643	NC_021162.1	Ca_Kabuli_Chr03	26439643	CC	TT	TT	INTRON	101508200	protein FLOWERING LOCUS T-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16070_A_26478729	NC_021162.1	Ca_Kabuli_Chr03	26478729	GG	TT	TT	INTRON	101499461	nucleoside-triphosphatase-like
SNP_16071_A_26483938	NC_021162.1	Ca_Kabuli_Chr03	26483938	AA	GG	GG	INTERGENIC		
SNP_16072_A_26484165	NC_021162.1	Ca_Kabuli_Chr03	26484165	CC	TT	TT	INTERGENIC		
SNP_16073_A_26484343	NC_021162.1	Ca_Kabuli_Chr03	26484343	AA	GG	GG	INTERGENIC		
SNP_16074_A_26495558	NC_021162.1	Ca_Kabuli_Chr03	26495558	GG	AA	AA	INTERGENIC		
SNP_16075_A_26495591	NC_021162.1	Ca_Kabuli_Chr03	26495591	AA	GG	GG	INTERGENIC		
SNP_16076_A_26495683	NC_021162.1	Ca_Kabuli_Chr03	26495683	TT	CC	CC	INTERGENIC		
SNP_16077_A_26495685	NC_021162.1	Ca_Kabuli_Chr03	26495685	TT	CC	CC	INTERGENIC		
SNP_16078_A_26495689	NC_021162.1	Ca_Kabuli_Chr03	26495689	AA	TT	TT	INTERGENIC		
SNP_16079_A_26495714	NC_021162.1	Ca_Kabuli_Chr03	26495714	TT	AA	AA	INTERGENIC		
SNP_16081_A_26495815	NC_021162.1	Ca_Kabuli_Chr03	26495815	GG	AA	AA	INTERGENIC		
SNP_16082_A_26495956	NC_021162.1	Ca_Kabuli_Chr03	26495956	CC	TT	TT	INTERGENIC		
SNP_16083_A_26496003	NC_021162.1	Ca_Kabuli_Chr03	26496003	AA	CC	CC	INTERGENIC		
SNP_16084_A_26496135	NC_021162.1	Ca_Kabuli_Chr03	26496135	AA	GG	GG	INTERGENIC		
SNP_16085_A_26496154	NC_021162.1	Ca_Kabuli_Chr03	26496154	AA	GG	GG	INTERGENIC		
SNP_16086_A_26496191	NC_021162.1	Ca_Kabuli_Chr03	26496191	TT	GG	GG	INTERGENIC		
SNP_16087_A_26510984	NC_021162.1	Ca_Kabuli_Chr03	26510984	TT	CC	CC	INTERGENIC		
SNP_16088_A_26584974	NC_021162.1	Ca_Kabuli_Chr03	26584974	CC	TT	TT	DRR	101503370	glucan endo-1,3-beta-glucosidase 8-like
SNP_16089_A_26652455	NC_021162.1	Ca_Kabuli_Chr03	26652455	CC	TT	TT	DRR	101508837	E3 ubiquitin-protein ligase SINA-like 4
SNP_16090_A_26652965	NC_021162.1	Ca_Kabuli_Chr03	26652965	AA	GG	GG	DRR	101508837	E3 ubiquitin-protein ligase SINA-like 4
SNP_16091_A_26707690	NC_021162.1	Ca_Kabuli_Chr03	26707690	TT	CC	CC	NON_SYNONYMOUS_CODING	101509159	serine/threonine-protein phosphatase 7 long form homolog
SNP_16092_A_26708024	NC_021162.1	Ca_Kabuli_Chr03	26708024	TT	AA	AA	URR	101509159	serine/threonine-protein phosphatase 7 long form homolog

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SNP_16094_A_26792931	NC_021162.1	Ca_Kabuli_Chr03	26792931	AA	GG	GG	DRR	101512386	Unknown function
SNP_16095_A_26794373	NC_021162.1	Ca_Kabuli_Chr03	26794373	AA	TT	TT	URR	101512386	Unknown function
SNP_16097_A_26875885	NC_021162.1	Ca_Kabuli_Chr03	26875885	CC	GG	GG	INTERGENIC		
SNP_16098_A_26897312	NC_021162.1	Ca_Kabuli_Chr03	26897312	CC	TT	TT	URR	101510448	mavicyanin-like
SNP_16099_A_26897934	NC_021162.1	Ca_Kabuli_Chr03	26897934	GG	AA	AA	URR	101510448	mavicyanin-like
SNP_16101_A_26967658	NC_021162.1	Ca_Kabuli_Chr03	26967658	CC	TT	TT	DRR	101492954	exosome component 10-like
SNP_16103_A_27039857	NC_021162.1	Ca_Kabuli_Chr03	27039857	AA	TT	TT	INTERGENIC		
SNP_16104_A_27055450	NC_021162.1	Ca_Kabuli_Chr03	27055450	GG	AA	AA	DRR	101496400	cationic amino acid transporter 4, vacuolar
SNP_16105_A_27097607	NC_021162.1	Ca_Kabuli_Chr03	27097607	AA	GG	GG	INTRON	101497377	probable polyribonucleotide nucleotidyltransferase 1, chloroplastic
SNP_16106_A_27111082	NC_021162.1	Ca_Kabuli_Chr03	27111082	CC	TT	TT	URR	101498031	cation/calcium exchanger 1
SNP_16107_A_27174816	NC_021162.1	Ca_Kabuli_Chr03	27174816	AA	GG	GG	INTERGENIC		
SNP_16108_A_27228445	NC_021162.1	Ca_Kabuli_Chr03	27228445	GG	TT	TT	INTERGENIC		
SNP_16109_A_27238032	NC_021162.1	Ca_Kabuli_Chr03	27238032	TT	GG	GG	INTERGENIC		
SNP_16110_A_27238879	NC_021162.1	Ca_Kabuli_Chr03	27238879	AA	GG	GG	URR	101514337	inorganic phosphate transporter 1-4-like
SNP_16111_A_27240695	NC_021162.1	Ca_Kabuli_Chr03	27240695	GG	AA	AA	URR	101514337	inorganic phosphate transporter 1-4-like
SNP_16112_A_27240708	NC_021162.1	Ca_Kabuli_Chr03	27240708	TT	CC	CC	URR	101514337	inorganic phosphate transporter 1-4-like
SNP_16113_A_27240762	NC_021162.1	Ca_Kabuli_Chr03	27240762	CC	GG	GG	INTERGENIC		
SNP_16114_A_27240763	NC_021162.1	Ca_Kabuli_Chr03	27240763	AA	CC	CC	INTERGENIC		
SNP_16115_A_27244284	NC_021162.1	Ca_Kabuli_Chr03	27244284	AA	TT	TT	INTERGENIC		
SNP_16116_A_27245484	NC_021162.1	Ca_Kabuli_Chr03	27245484	GG	AA	AA	INTERGENIC		
SNP_16117_A_27282648	NC_021162.1	Ca_Kabuli_Chr03	27282648	GG	AA	AA	INTERGENIC		
SNP_16118_A_27356423	NC_021162.1	Ca_Kabuli_Chr03	27356423	GG	AA	AA	INTERGENIC		

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SNP_16120_A_27397784	NC_021162.1	Ca_Kabuli_Chr03	27397784	GG	TT	TT	URR	101508113	GDSL esterase/lipase At3g26430-like
SNP_16121_A_27415667	NC_021162.1	Ca_Kabuli_Chr03	27415667	TT	AA	AA	URR	101508742	grpE protein homolog, mitochondrial
SNP_16122_A_27420388	NC_021162.1	Ca_Kabuli_Chr03	27420388	CC	AA	AA	SYNONYMOUS_CODING	101509490	protein TRANSPARENT TESTA 12-like
SNP_16123_A_27452348	NC_021162.1	Ca_Kabuli_Chr03	27452348	CC	AA	AA	INTRON	101511952	UPF0400 protein C337.03-like
SNP_16124_A_27553488	NC_021162.1	Ca_Kabuli_Chr03	27553488	CC	GG	GG	INTERGENIC		
SNP_16125_A_27582610	NC_021162.1	Ca_Kabuli_Chr03	27582610	CC	GG	GG	INTRON	101488715	alpha-L-arabinofuranosidase 1-like
SNP_16126_A_27582866	NC_021162.1	Ca_Kabuli_Chr03	27582866	CC	TT	TT	SYNONYMOUS_CODING	101488715	alpha-L-arabinofuranosidase 1-like
SNP_16127_A_27582869	NC_021162.1	Ca_Kabuli_Chr03	27582869	TT	CC	CC	STOP_LOST	101488715	alpha-L-arabinofuranosidase 1-like
SNP_16128_A_27629059	NC_021162.1	Ca_Kabuli_Chr03	27629059	CC	TT	TT	DRR	101490139	protein PHR1-LIKE 1-like
SNP_16130_A_27658533	NC_021162.1	Ca_Kabuli_Chr03	27658533	TT	AA	AA	INTERGENIC		
SNP_16131_A_27736094	NC_021162.1	Ca_Kabuli_Chr03	27736094	AA	GG	GG	DRR	101495955	histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH1-like
SNP_16132_A_27736098	NC_021162.1	Ca_Kabuli_Chr03	27736098	AA	GG	GG	DRR	101495955	histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH1-like
SNP_16133_A_27736128	NC_021162.1	Ca_Kabuli_Chr03	27736128	TT	AA	AA	DRR	101495955	histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH1-like
SNP_16135_A_27854270	NC_021162.1	Ca_Kabuli_Chr03	27854270	AA	GG	GG	INTRON	101498915	uncharacterized LOC101498915
SNP_16136_A_27854283	NC_021162.1	Ca_Kabuli_Chr03	27854283	CC	TT	TT	INTRON	101498915	uncharacterized LOC101498915
SNP_16137_A_27854306	NC_021162.1	Ca_Kabuli_Chr03	27854306	GG	AA	AA	INTRON	101498915	uncharacterized LOC101498915
SNP_16138_A_27854352	NC_021162.1	Ca_Kabuli_Chr03	27854352	TT	CC	CC	INTRON	101498915	uncharacterized LOC101498915
SNP_16139_A_27854355	NC_021162.1	Ca_Kabuli_Chr03	27854355	GG	AA	AA	INTRON	101498915	uncharacterized LOC101498915
SNP_16140_A_27854427	NC_021162.1	Ca_Kabuli_Chr03	27854427	TT	AA	AA	INTRON	101498915	uncharacterized LOC101498915
SNP_16141_A_27854555	NC_021162.1	Ca_Kabuli_Chr03	27854555	GG	AA	AA	INTRON	101498915	uncharacterized LOC101498915
SNP_16142_A_27854694	NC_021162.1	Ca_Kabuli_Chr03	27854694	AA	GG	GG	INTRON	101498915	uncharacterized LOC101498915
SNP_16143_A_27854695	NC_021162.1	Ca_Kabuli_Chr03	27854695	AA	GG	GG	INTRON	101498915	uncharacterized LOC101498915

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SNP_16144_A_27854731	NC_021162.1	Ca_Kabuli_Chr03	27854731	AA	GG	GG	INTRON	101498915	uncharacterized LOC101498915
SNP_16145_A_27854735	NC_021162.1	Ca_Kabuli_Chr03	27854735	AA	GG	GG	INTRON	101498915	uncharacterized LOC101498915
SNP_16146_A_27854744	NC_021162.1	Ca_Kabuli_Chr03	27854744	GG	TT	TT	INTRON	101498915	uncharacterized LOC101498915
SNP_16148_A_27854816	NC_021162.1	Ca_Kabuli_Chr03	27854816	GG	TT	TT	INTRON	101498915	uncharacterized LOC101498915
SNP_16149_A_27855139	NC_021162.1	Ca_Kabuli_Chr03	27855139	AA	CC	CC	INTRON	101498915	uncharacterized LOC101498915
SNP_16150_A_27856730	NC_021162.1	Ca_Kabuli_Chr03	27856730	GG	AA	AA	INTRON	101498915	uncharacterized LOC101498915
SNP_16153_A_27866897	NC_021162.1	Ca_Kabuli_Chr03	27866897	AA	CC	CC	INTERGENIC		
SNP_16154_A_27866904	NC_021162.1	Ca_Kabuli_Chr03	27866904	TT	CC	CC	INTERGENIC		
SNP_16155_A_27866950	NC_021162.1	Ca_Kabuli_Chr03	27866950	AA	GG	GG	INTERGENIC		
SNP_16156_A_27867189	NC_021162.1	Ca_Kabuli_Chr03	27867189	GG	AA	AA	INTERGENIC		
SNP_16157_A_27867193	NC_021162.1	Ca_Kabuli_Chr03	27867193	AA	TT	TT	INTERGENIC		
SNP_16158_A_27869912	NC_021162.1	Ca_Kabuli_Chr03	27869912	GG	AA	AA	INTERGENIC		
SNP_16159_A_27870132	NC_021162.1	Ca_Kabuli_Chr03	27870132	TT	CC	CC	INTERGENIC		
SNP_16160_A_27884114	NC_021162.1	Ca_Kabuli_Chr03	27884114	AA	CC	CC	DOWNSTREAM	SUPT6H	Unknown function
SNP_16161_A_27943942	NC_021162.1	Ca_Kabuli_Chr03	27943942	TT	AA	AA	INTERGENIC		
SNP_16162_A_27950343	NC_021162.1	Ca_Kabuli_Chr03	27950343	CC	TT	TT	INTERGENIC		
SNP_16163_A_27970929	NC_021162.1	Ca_Kabuli_Chr03	27970929	CC	GG	GG	URR	101491009	Unknown function
SNP_16164_A_28052822	NC_021162.1	Ca_Kabuli_Chr03	28052822	CC	GG	GG	URR	101504345	protein NRT1/ PTR FAMILY 3.1-like
SNP_16165_A_28074907	NC_021162.1	Ca_Kabuli_Chr03	28074907	TT	AA	AA	INTERGENIC		
SNP_16166_A_28075103	NC_021162.1	Ca_Kabuli_Chr03	28075103	CC	TT	TT	INTERGENIC		
SNP_16167_A_28109606	NC_021162.1	Ca_Kabuli_Chr03	28109606	TT	CC	CC	INTERGENIC		
SNP_16168_A_28109758	NC_021162.1	Ca_Kabuli_Chr03	28109758	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_16170_A_28114045	NC_021162.1	Ca_Kabuli_Chr03	28114045	AA	TT	TT	INTERGENIC			
SNP_16171_A_28150628	NC_021162.1	Ca_Kabuli_Chr03	28150628	AA	CC	CC	INTERGENIC			
SNP_16172_A_28188262	NC_021162.1	Ca_Kabuli_Chr03	28188262	CC	TT	TT	INTERGENIC			
SNP_16174_A_28188337	NC_021162.1	Ca_Kabuli_Chr03	28188337	GG	TT	TT	INTERGENIC			
SNP_16175_A_28188406	NC_021162.1	Ca_Kabuli_Chr03	28188406	AA	TT	TT	INTERGENIC			
SNP_16176_A_28188412	NC_021162.1	Ca_Kabuli_Chr03	28188412	GG	AA	AA	INTERGENIC			
SNP_16178_A_28188447	NC_021162.1	Ca_Kabuli_Chr03	28188447	TT	AA	AA	INTERGENIC			
SNP_16179_A_28188497	NC_021162.1	Ca_Kabuli_Chr03	28188497	AA	GG	GG	INTERGENIC			
SNP_16181_A_28193234	NC_021162.1	Ca_Kabuli_Chr03	28193234	GG	AA	AA	INTERGENIC			
SNP_16182_A_28193238	NC_021162.1	Ca_Kabuli_Chr03	28193238	GG	AA	AA	INTERGENIC			
SNP_16183_A_28193301	NC_021162.1	Ca_Kabuli_Chr03	28193301	CC	TT	TT	INTERGENIC			
SNP_16184_A_28198303	NC_021162.1	Ca_Kabuli_Chr03	28198303	TT	AA	AA	INTERGENIC			
SNP_16185_A_28198304	NC_021162.1	Ca_Kabuli_Chr03	28198304	CC	TT	TT	INTERGENIC			
SNP_16186_A_28198336	NC_021162.1	Ca_Kabuli_Chr03	28198336	TT	CC	CC	INTERGENIC			
SNP_16187_A_28198384	NC_021162.1	Ca_Kabuli_Chr03	28198384	CC	TT	TT	INTERGENIC			
SNP_16188_A_28198392	NC_021162.1	Ca_Kabuli_Chr03	28198392	AA	GG	GG	INTERGENIC			
SNP_16189_A_28221570	NC_021162.1	Ca_Kabuli_Chr03	28221570	CC	AA	AA	INTERGENIC			
SNP_16190_A_28221571	NC_021162.1	Ca_Kabuli_Chr03	28221571	GG	TT	TT	INTERGENIC			
SNP_16191_A_28283677	NC_021162.1	Ca_Kabuli_Chr03	28283677	AA	GG	GG	INTERGENIC			
SNP_16194_A_28317187	NC_021162.1	Ca_Kabuli_Chr03	28317187	TT	AA	AA	INTERGENIC			
SNP_16195_A_28356476	NC_021162.1	Ca_Kabuli_Chr03	28356476	TT	CC	CC	INTERGENIC			
SNP_16196_A_28362634	NC_021162.1	Ca_Kabuli_Chr03	28362634	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16197_A_28407926	NC_021162.1	Ca_Kabuli_Chr03	28407926	TT	AA	AA	DRR	101497827	pentatricopeptide repeat-containing protein At4g33990
SNP_16198_A_28421658	NC_021162.1	Ca_Kabuli_Chr03	28421658	GG	AA	AA	INTRON	101498705	10 kDa chaperonin-like
SNP_16201_A_28655485	NC_021162.1	Ca_Kabuli_Chr03	28655485	CC	TT	TT	INTERGENIC		
SNP_16202_A_28672643	NC_021162.1	Ca_Kabuli_Chr03	28672643	TT	CC	CC	INTRON	101506279	ferredoxin-dependent glutamate synthase, chloroplastic
SNP_16205_A_28797835	NC_021162.1	Ca_Kabuli_Chr03	28797835	GG	CC	CC	INTERGENIC		
SNP_16206_A_28799215	NC_021162.1	Ca_Kabuli_Chr03	28799215	AA	CC	CC	INTERGENIC		
SNP_16207_A_28799300	NC_021162.1	Ca_Kabuli_Chr03	28799300	GG	AA	AA	INTERGENIC		
SNP_16208_A_28799332	NC_021162.1	Ca_Kabuli_Chr03	28799332	AA	TT	TT	INTERGENIC		
SNP_16209_A_28799366	NC_021162.1	Ca_Kabuli_Chr03	28799366	CC	TT	TT	INTERGENIC		
SNP_16210_A_28799374	NC_021162.1	Ca_Kabuli_Chr03	28799374	TT	AA	AA	INTERGENIC		
SNP_16211_A_28799381	NC_021162.1	Ca_Kabuli_Chr03	28799381	TT	AA	AA	INTERGENIC		
SNP_16213_A_28799482	NC_021162.1	Ca_Kabuli_Chr03	28799482	AA	GG	GG	INTERGENIC		
SNP_16214_A_28799558	NC_021162.1	Ca_Kabuli_Chr03	28799558	AA	CC	CC	DRR	101489710	early nodulin-55-1-like
SNP_16216_A_28799600	NC_021162.1	Ca_Kabuli_Chr03	28799600	GG	AA	AA	DRR	101489710	early nodulin-55-1-like
SNP_16217_A_28799626	NC_021162.1	Ca_Kabuli_Chr03	28799626	GG	AA	AA	DRR	101489710	early nodulin-55-1-like
SNP_16218_A_28799633	NC_021162.1	Ca_Kabuli_Chr03	28799633	TT	CC	CC	DRR	101489710	early nodulin-55-1-like
SNP_16219_A_28799779	NC_021162.1	Ca_Kabuli_Chr03	28799779	TT	CC	CC	DRR	101489710	early nodulin-55-1-like
SNP_16220_A_28799803	NC_021162.1	Ca_Kabuli_Chr03	28799803	CC	AA	AA	DRR	101489710	early nodulin-55-1-like
SNP_16221_A_28799805	NC_021162.1	Ca_Kabuli_Chr03	28799805	GG	TT	TT	DRR	101489710	early nodulin-55-1-like
SNP_16222_A_28799843	NC_021162.1	Ca_Kabuli_Chr03	28799843	AA	GG	GG	DRR	101489710	early nodulin-55-1-like
SNP_16223_A_28799850	NC_021162.1	Ca_Kabuli_Chr03	28799850	TT	AA	AA	DRR	101489710	early nodulin-55-1-like
SNP_16224_A_28799879	NC_021162.1	Ca_Kabuli_Chr03	28799879	GG	AA	AA	DRR	101489710	early nodulin-55-1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16225_A_28799880	NC_021162.1	Ca_Kabuli_Chr03	28799880	TT	GG	GG	DRR	101489710	early nodulin-55-1-like
SNP_16226_A_28799930	NC_021162.1	Ca_Kabuli_Chr03	28799930	GG	AA	AA	DRR	101489710	early nodulin-55-1-like
SNP_16228_A_28870353	NC_021162.1	Ca_Kabuli_Chr03	28870353	GG	AA	AA	URR	101512920	haloacid dehalogenase-like hydrolase domain-containing protein 3
SNP_16229_A_28902233	NC_021162.1	Ca_Kabuli_Chr03	28902233	AA	TT	TT	INTERGENIC		
SNP_16230_A_28923981	NC_021162.1	Ca_Kabuli_Chr03	28923981	AA	CC	CC	DRR	101513886	triacylglycerol lipase SDP1
SNP_16233_A_28994270	NC_021162.1	Ca_Kabuli_Chr03	28994270	TT	AA	AA	URR	101488950	uncharacterized LOC101488950
SNP_16234_A_28994737	NC_021162.1	Ca_Kabuli_Chr03	28994737	CC	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16235_A_28994904	NC_021162.1	Ca_Kabuli_Chr03	28994904	TT	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16236_A_28994916	NC_021162.1	Ca_Kabuli_Chr03	28994916	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16237_A_28994917	NC_021162.1	Ca_Kabuli_Chr03	28994917	TT	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16239_A_28994994	NC_021162.1	Ca_Kabuli_Chr03	28994994	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16240_A_28994995	NC_021162.1	Ca_Kabuli_Chr03	28994995	AA	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16241_A_28995029	NC_021162.1	Ca_Kabuli_Chr03	28995029	GG	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16242_A_28995047	NC_021162.1	Ca_Kabuli_Chr03	28995047	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16243_A_28995098	NC_021162.1	Ca_Kabuli_Chr03	28995098	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16244_A_28995112	NC_021162.1	Ca_Kabuli_Chr03	28995112	CC	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16246_A_28995158	NC_021162.1	Ca_Kabuli_Chr03	28995158	TT	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16247_A_28995293	NC_021162.1	Ca_Kabuli_Chr03	28995293	GG	CC	CC	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16248_A_28995357	NC_021162.1	Ca_Kabuli_Chr03	28995357	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16249_A_28995359	NC_021162.1	Ca_Kabuli_Chr03	28995359	GG	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16250_A_28995379	NC_021162.1	Ca_Kabuli_Chr03	28995379	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16251_A_28995407	NC_021162.1	Ca_Kabuli_Chr03	28995407	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16252_A_28995492	NC_021162.1	Ca_Kabuli_Chr03	28995492	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16253_A_28995566	NC_021162.1	Ca_Kabuli_Chr03	28995566	TT	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16254_A_28995571	NC_021162.1	Ca_Kabuli_Chr03	28995571	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16255_A_28995576	NC_021162.1	Ca_Kabuli_Chr03	28995576	TT	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16256_A_28995586	NC_021162.1	Ca_Kabuli_Chr03	28995586	GG	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16257_A_28996624	NC_021162.1	Ca_Kabuli_Chr03	28996624	GG	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16258_A_28996928	NC_021162.1	Ca_Kabuli_Chr03	28996928	AA	GG	GG	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16259_A_28996931	NC_021162.1	Ca_Kabuli_Chr03	28996931	AA	GG	GG	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16260_A_28996935	NC_021162.1	Ca_Kabuli_Chr03	28996935	AA	GG	GG	SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16261_A_28996971	NC_021162.1	Ca_Kabuli_Chr03	28996971	TT	AA	AA	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16262_A_28996977	NC_021162.1	Ca_Kabuli_Chr03	28996977	TT	CC	CC	SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16263_A_28997022	NC_021162.1	Ca_Kabuli_Chr03	28997022	CC	TT	TT	SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16264_A_28997027	NC_021162.1	Ca_Kabuli_Chr03	28997027	AA	CC	CC	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16265_A_28997140	NC_021162.1	Ca_Kabuli_Chr03	28997140	TT	CC	CC	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16266_A_28997179	NC_021162.1	Ca_Kabuli_Chr03	28997179	GG	AA	AA	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16267_A_28997337	NC_021162.1	Ca_Kabuli_Chr03	28997337	CC	TT	TT	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16268_A_28997338	NC_021162.1	Ca_Kabuli_Chr03	28997338	AA	GG	GG	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16269_A_28997389	NC_021162.1	Ca_Kabuli_Chr03	28997389	AA	CC	CC	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16270_A_28997427	NC_021162.1	Ca_Kabuli_Chr03	28997427	CC	TT	TT	STOP_GAINED	101489274	uncharacterized LOC101489274
SNP_16271_A_28999544	NC_021162.1	Ca_Kabuli_Chr03	28999544	TT	AA	AA	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16272_A_28999585	NC_021162.1	Ca_Kabuli_Chr03	28999585	GG	AA	AA	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16273_A_28999587	NC_021162.1	Ca_Kabuli_Chr03	28999587	CC	GG	GG	SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16274_A_28999620	NC_021162.1	Ca_Kabuli_Chr03	28999620	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16276_A_28999780	NC_021162.1	Ca_Kabuli_Chr03	28999780	AA	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16277_A_28999785	NC_021162.1	Ca_Kabuli_Chr03	28999785	CC	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16278_A_28999798	NC_021162.1	Ca_Kabuli_Chr03	28999798	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16279_A_28999814	NC_021162.1	Ca_Kabuli_Chr03	28999814	AA	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16280_A_28999900	NC_021162.1	Ca_Kabuli_Chr03	28999900	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16281_A_28999916	NC_021162.1	Ca_Kabuli_Chr03	28999916	TT	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16282_A_28999921	NC_021162.1	Ca_Kabuli_Chr03	28999921	AA	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16283_A_29000035	NC_021162.1	Ca_Kabuli_Chr03	29000035	TT	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16284_A_29000040	NC_021162.1	Ca_Kabuli_Chr03	29000040	CC	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16285_A_29000093	NC_021162.1	Ca_Kabuli_Chr03	29000093	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16286_A_29000161	NC_021162.1	Ca_Kabuli_Chr03	29000161	TT	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16287_A_29000240	NC_021162.1	Ca_Kabuli_Chr03	29000240	GG	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16288_A_29000268	NC_021162.1	Ca_Kabuli_Chr03	29000268	GG	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16289_A_29000627	NC_021162.1	Ca_Kabuli_Chr03	29000627	GG	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16290_A_29000720	NC_021162.1	Ca_Kabuli_Chr03	29000720	GG	CC	CC	INTRON	101489274	uncharacterized LOC101489274
SNP_16291_A_29000723	NC_021162.1	Ca_Kabuli_Chr03	29000723	TT	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16292_A_29000745	NC_021162.1	Ca_Kabuli_Chr03	29000745	GG	AA	AA	INTRON	101489274	uncharacterized LOC101489274
SNP_16293_A_29000758	NC_021162.1	Ca_Kabuli_Chr03	29000758	GG	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16294_A_29000770	NC_021162.1	Ca_Kabuli_Chr03	29000770	AA	GG	GG	INTRON	101489274	uncharacterized LOC101489274
SNP_16295_A_29000810	NC_021162.1	Ca_Kabuli_Chr03	29000810	CC	TT	TT	INTRON	101489274	uncharacterized LOC101489274
SNP_16297_A_29000965	NC_021162.1	Ca_Kabuli_Chr03	29000965	GG	TT	TT	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16298_A_29000970	NC_021162.1	Ca_Kabuli_Chr03	29000970	AA	TT	TT	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16299_A_29000975	NC_021162.1	Ca_Kabuli_Chr03	29000975	AA	CC	CC	NON_SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16300_A_29000981	NC_021162.1	Ca_Kabuli_Chr03	29000981	CC	TT	TT	SYNONYMOUS_CODING	101489274	uncharacterized LOC101489274
SNP_16301_A_29001038	NC_021162.1	Ca_Kabuli_Chr03	29001038	TT	CC	CC	INTERGENIC		
SNP_16302_A_29001043	NC_021162.1	Ca_Kabuli_Chr03	29001043	AA	GG	GG	INTERGENIC		
SNP_16303_A_29001068	NC_021162.1	Ca_Kabuli_Chr03	29001068	GG	AA	AA	INTERGENIC		
SNP_16304_A_29001074	NC_021162.1	Ca_Kabuli_Chr03	29001074	TT	CC	CC	INTERGENIC		
SNP_16305_A_29042319	NC_021162.1	Ca_Kabuli_Chr03	29042319	AA	GG	GG	DRR	101490369	F-box/FBD/LRR-repeat protein At1g78750-like
SNP_16307_A_29105109	NC_021162.1	Ca_Kabuli_Chr03	29105109	AA	GG	GG	DRR	101494252	uncharacterized LOC101494252
SNP_16308_A_29116167	NC_021162.1	Ca_Kabuli_Chr03	29116167	GG	TT	TT	URR	101494252	uncharacterized LOC101494252
SNP_16309_A_29132058	NC_021162.1	Ca_Kabuli_Chr03	29132058	TT	CC	CC	DRR	101491011	Unknown function
SNP_16310_A_29213244	NC_021162.1	Ca_Kabuli_Chr03	29213244	AA	GG	GG	URR	101499346	putative disease resistance protein RGA3
SNP_16312_A_29248691	NC_021162.1	Ca_Kabuli_Chr03	29248691	CC	GG	GG	INTERGENIC		
SNP_16313_A_29249434	NC_021162.1	Ca_Kabuli_Chr03	29249434	CC	TT	TT	INTERGENIC		
SNP_16314_A_29249503	NC_021162.1	Ca_Kabuli_Chr03	29249503	AA	GG	GG	INTERGENIC		
SNP_16315_A_29249508	NC_021162.1	Ca_Kabuli_Chr03	29249508	TT	GG	GG	INTERGENIC		
SNP_16316_A_29249514	NC_021162.1	Ca_Kabuli_Chr03	29249514	CC	TT	TT	INTERGENIC		
SNP_16317_A_29249535	NC_021162.1	Ca_Kabuli_Chr03	29249535	GG	AA	AA	INTERGENIC		
SNP_16318_A_29249553	NC_021162.1	Ca_Kabuli_Chr03	29249553	AA	GG	GG	INTERGENIC		
SNP_16319_A_29249614	NC_021162.1	Ca_Kabuli_Chr03	29249614	AA	GG	GG	INTERGENIC		
SNP_16320_A_29249942	NC_021162.1	Ca_Kabuli_Chr03	29249942	TT	CC	CC	INTERGENIC		
SNP_16321_A_29250000	NC_021162.1	Ca_Kabuli_Chr03	29250000	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16322_A_29250029	NC_021162.1	Ca_Kabuli_Chr03	29250029	GG	AA	AA	INTERGENIC		
SNP_16323_A_29250115	NC_021162.1	Ca_Kabuli_Chr03	29250115	GG	CC	CC	INTERGENIC		
SNP_16324_A_29297776	NC_021162.1	Ca_Kabuli_Chr03	29297776	TT	AA	AA	URR	101502626	ABC transporter A family member 1
SNP_16325_A_29318929	NC_021162.1	Ca_Kabuli_Chr03	29318929	GG	AA	AA	INTERGENIC		
SNP_16326_A_29328596	NC_021162.1	Ca_Kabuli_Chr03	29328596	CC	TT	TT	INTERGENIC		
SNP_16329_A_29494700	NC_021162.1	Ca_Kabuli_Chr03	29494700	GG	AA	AA	INTERGENIC		
SNP_16330_A_29503386	NC_021162.1	Ca_Kabuli_Chr03	29503386	GG	AA	AA	URR	101513461	probable galactinol--sucrose galactosyltransferase 2
SNP_16333_A_29570466	NC_021162.1	Ca_Kabuli_Chr03	29570466	AA	GG	GG	INTERGENIC		
SNP_16335_A_29627886	NC_021162.1	Ca_Kabuli_Chr03	29627886	AA	GG	GG	INTRON	101490572	1-acyl-sn-glycerol-3-phosphate acyltransferase 2
SNP_16336_A_29718103	NC_021162.1	Ca_Kabuli_Chr03	29718103	CC	TT	TT	DRR	101492627	pentatricopeptide repeat-containing protein At1g05750, chloroplastic-like
SNP_16339_A_29762301	NC_021162.1	Ca_Kabuli_Chr03	29762301	TT	CC	CC	URR	101496074	protein cornichon homolog 1
SNP_16343_A_29780273	NC_021162.1	Ca_Kabuli_Chr03	29780273	TT	AA	AA	DRR	101497593	Unknown function
SNP_16344_A_29827587	NC_021162.1	Ca_Kabuli_Chr03	29827587	CC	AA	AA	INTERGENIC		
SNP_16345_A_29834598	NC_021162.1	Ca_Kabuli_Chr03	29834598	TT	GG	GG	DRR	101499557	polygalacturonase inhibitor
SNP_16346_A_29877241	NC_021162.1	Ca_Kabuli_Chr03	29877241	TT	AA	AA	URR	101501033	TBCC domain-containing protein 1-like
SNP_16347_A_29882403	NC_021162.1	Ca_Kabuli_Chr03	29882403	TT	AA	AA	INTERGENIC		
SNP_16348_A_29900611	NC_021162.1	Ca_Kabuli_Chr03	29900611	AA	GG	GG	URR	101502532	squamosa promoter-binding-like protein 9
SNP_16349_A_29952160	NC_021162.1	Ca_Kabuli_Chr03	29952160	CC	TT	TT	INTERGENIC		
SNP_16351_A_29984644	NC_021162.1	Ca_Kabuli_Chr03	29984644	TT	AA	AA	URR	101506718	18 kDa seed maturation protein-like
SNP_16352_A_29984646	NC_021162.1	Ca_Kabuli_Chr03	29984646	AA	GG	GG	URR	101506718	18 kDa seed maturation protein-like
SNP_16353_A_30029610	NC_021162.1	Ca_Kabuli_Chr03	30029610	AA	CC	CC	INTRON	101510027	nudix hydrolase 23, chloroplastic
SNP_16354_A_30031090	NC_021162.1	Ca_Kabuli_Chr03	30031090	CC	TT	TT	URR	101510027	nudix hydrolase 23, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16356_A_30078591	NC_021162.1	Ca_Kabuli_Chr03	30078591	GG	AA	AA	INTERGENIC		
SNP_16358_A_30134414	NC_021162.1	Ca_Kabuli_Chr03	30134414	TT	CC	CC	DRR	101514338	E3 ubiquitin-protein ligase SINAT2
SNP_16359_A_30136201	NC_021162.1	Ca_Kabuli_Chr03	30136201	AA	GG	GG	INTRON	101514338	E3 ubiquitin-protein ligase SINAT2
SNP_16360_A_30151830	NC_021162.1	Ca_Kabuli_Chr03	30151830	AA	GG	GG	INTERGENIC		
SNP_16361_A_30188163	NC_021162.1	Ca_Kabuli_Chr03	30188163	TT	AA	AA	INTERGENIC		
SNP_16362_A_30211595	NC_021162.1	Ca_Kabuli_Chr03	30211595	AA	GG	GG	INTRON	101490028	kinesin-related protein 4
SNP_16363_A_30251537	NC_021162.1	Ca_Kabuli_Chr03	30251537	GG	TT	TT	INTERGENIC		
SNP_16364_A_30325257	NC_021162.1	Ca_Kabuli_Chr03	30325257	AA	TT	TT	INTERGENIC		
SNP_16365_A_30325258	NC_021162.1	Ca_Kabuli_Chr03	30325258	AA	TT	TT	INTERGENIC		
SNP_16366_A_30334462	NC_021162.1	Ca_Kabuli_Chr03	30334462	CC	TT	TT	INTERGENIC		
SNP_16368_A_30370287	NC_021162.1	Ca_Kabuli_Chr03	30370287	CC	TT	TT	URR	101498367	short-chain type dehydrogenase/reductase-like
SNP_16369_A_30396895	NC_021162.1	Ca_Kabuli_Chr03	30396895	TT	CC	CC	INTERGENIC		
SNP_16371_A_30461610	NC_021162.1	Ca_Kabuli_Chr03	30461610	GG	AA	AA	INTERGENIC		
SNP_16372_A_30491396	NC_021162.1	Ca_Kabuli_Chr03	30491396	GG	AA	AA	INTERGENIC		
SNP_16373_A_30497900	NC_021162.1	Ca_Kabuli_Chr03	30497900	AA	TT	TT	URR	101495525	aluminum-activated malate transporter 2-like
SNP_16374_A_30557094	NC_021162.1	Ca_Kabuli_Chr03	30557094	TT	CC	CC	INTRON	101504457	uncharacterized LOC101504457
SNP_16375_A_30582493	NC_021162.1	Ca_Kabuli_Chr03	30582493	GG	AA	AA	INTERGENIC		
SNP_16376_A_30602207	NC_021162.1	Ca_Kabuli_Chr03	30602207	AA	TT	TT	INTERGENIC		
SNP_16377_A_30602216	NC_021162.1	Ca_Kabuli_Chr03	30602216	GG	AA	AA	INTERGENIC		
SNP_16378_A_30602272	NC_021162.1	Ca_Kabuli_Chr03	30602272	GG	TT	TT	INTERGENIC		
SNP_16380_A_30637349	NC_021162.1	Ca_Kabuli_Chr03	30637349	AA	GG	GG	DRR	101496179	ent-copalyl diphosphate synthase, chloroplastic
SNP_16381_A_30667396	NC_021162.1	Ca_Kabuli_Chr03	30667396	CC	TT	TT	INTRON	101507482	F-box protein At4g02760-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_16382_A_30746910	NC_021162.1	Ca_Kabuli_Chr03	30746910	AA	GG	GG	INTERGENIC			
SNP_16383_A_30820127	NC_021162.1	Ca_Kabuli_Chr03	30820127	TT	CC	CC	INTERGENIC			
SNP_16384_A_30820134	NC_021162.1	Ca_Kabuli_Chr03	30820134	GG	AA	AA	INTERGENIC			
SNP_16385_A_30820142	NC_021162.1	Ca_Kabuli_Chr03	30820142	AA	GG	GG	INTERGENIC			
SNP_16386_A_30820175	NC_021162.1	Ca_Kabuli_Chr03	30820175	TT	GG	GG	INTERGENIC			
SNP_16387_A_30820176	NC_021162.1	Ca_Kabuli_Chr03	30820176	TT	CC	CC	INTERGENIC			
SNP_16388_A_30820186	NC_021162.1	Ca_Kabuli_Chr03	30820186	GG	AA	AA	INTERGENIC			
SNP_16389_A_30820208	NC_021162.1	Ca_Kabuli_Chr03	30820208	AA	GG	GG	INTERGENIC			
SNP_16391_A_30841746	NC_021162.1	Ca_Kabuli_Chr03	30841746	GG	AA	AA	URR	101497712		BI1-like protein
SNP_16392_A_30846290	NC_021162.1	Ca_Kabuli_Chr03	30846290	TT	GG	GG	INTERGENIC			
SNP_16393_A_30846301	NC_021162.1	Ca_Kabuli_Chr03	30846301	GG	AA	AA	INTERGENIC			
SNP_16394_A_30846404	NC_021162.1	Ca_Kabuli_Chr03	30846404	AA	GG	GG	INTERGENIC			
SNP_16395_A_30846773	NC_021162.1	Ca_Kabuli_Chr03	30846773	AA	GG	GG	INTERGENIC			
SNP_16396_A_30846791	NC_021162.1	Ca_Kabuli_Chr03	30846791	TT	CC	CC	INTERGENIC			
SNP_16397_A_30846815	NC_021162.1	Ca_Kabuli_Chr03	30846815	AA	TT	TT	INTERGENIC			
SNP_16398_A_30846854	NC_021162.1	Ca_Kabuli_Chr03	30846854	AA	GG	GG	INTERGENIC			
SNP_16399_A_30902750	NC_021162.1	Ca_Kabuli_Chr03	30902750	TT	AA	AA	URR	101499767		peptidyl-prolyl cis-trans isomerase CYP63
SNP_16400_A_30930418	NC_021162.1	Ca_Kabuli_Chr03	30930418	GG	AA	AA	INTERGENIC			
SNP_16401_A_30930423	NC_021162.1	Ca_Kabuli_Chr03	30930423	GG	CC	CC	INTERGENIC			
SNP_16403_A_30930645	NC_021162.1	Ca_Kabuli_Chr03	30930645	TT	CC	CC	INTERGENIC			
SNP_16404_A_30953574	NC_021162.1	Ca_Kabuli_Chr03	30953574	TT	GG	GG	INTERGENIC			
SNP_16405_A_30977478	NC_021162.1	Ca_Kabuli_Chr03	30977478	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16406_A_30977484	NC_021162.1	Ca_Kabuli_Chr03	30977484	AA	TT	TT	INTERGENIC		
SNP_16407_A_31008722	NC_021162.1	Ca_Kabuli_Chr03	31008722	AA	CC	CC	INTERGENIC		
SNP_16409_A_31222105	NC_021162.1	Ca_Kabuli_Chr03	31222105	TT	CC	CC	URR	101515314	F-box protein At2g26160-like
SNP_16410_A_31222108	NC_021162.1	Ca_Kabuli_Chr03	31222108	AA	GG	GG	URR	101515314	F-box protein At2g26160-like
SNP_16411_A_31232521	NC_021162.1	Ca_Kabuli_Chr03	31232521	GG	AA	AA	INTERGENIC		
SNP_16412_A_31258013	NC_021162.1	Ca_Kabuli_Chr03	31258013	TT	CC	CC	INTERGENIC		
SNP_16413_A_31262532	NC_021162.1	Ca_Kabuli_Chr03	31262532	CC	TT	TT	INTERGENIC		
SNP_16414_A_31262533	NC_021162.1	Ca_Kabuli_Chr03	31262533	AA	TT	TT	INTERGENIC		
SNP_16415_A_31267348	NC_021162.1	Ca_Kabuli_Chr03	31267348	TT	AA	AA	INTERGENIC		
SNP_16416_A_31270189	NC_021162.1	Ca_Kabuli_Chr03	31270189	TT	CC	CC	URR	101513579	Unknown function
SNP_16417_A_31270524	NC_021162.1	Ca_Kabuli_Chr03	31270524	AA	GG	GG	URR	101513579	Unknown function
SNP_16418_A_31287085	NC_021162.1	Ca_Kabuli_Chr03	31287085	GG	AA	AA	INTERGENIC		
SNP_16419_A_31287129	NC_021162.1	Ca_Kabuli_Chr03	31287129	CC	GG	GG	INTERGENIC		
SNP_16420_A_31287130	NC_021162.1	Ca_Kabuli_Chr03	31287130	CC	AA	AA	INTERGENIC		
SNP_16421_A_31289046	NC_021162.1	Ca_Kabuli_Chr03	31289046	GG	AA	AA	NON_SYNONYMOUS_CODING	101514235	inorganic phosphate transporter 1-4
SNP_16423_A_31293451	NC_021162.1	Ca_Kabuli_Chr03	31293451	GG	TT	TT	INTERGENIC		
SNP_16425_A_31293463	NC_021162.1	Ca_Kabuli_Chr03	31293463	AA	GG	GG	INTERGENIC		
SNP_16426_A_31294818	NC_021162.1	Ca_Kabuli_Chr03	31294818	AA	GG	GG	DRR	101514876	myb-related protein Myb4
SNP_16427_A_31295071	NC_021162.1	Ca_Kabuli_Chr03	31295071	GG	AA	AA	DRR	101514876	myb-related protein Myb4
SNP_16428_A_31295110	NC_021162.1	Ca_Kabuli_Chr03	31295110	AA	CC	CC	DRR	101514876	myb-related protein Myb4
SNP_16429_A_31295138	NC_021162.1	Ca_Kabuli_Chr03	31295138	AA	GG	GG	DRR	101514876	myb-related protein Myb4
SNP_16430_A_31295583	NC_021162.1	Ca_Kabuli_Chr03	31295583	GG	TT	TT	INTRON	101514876	myb-related protein Myb4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16432_A_31296272	NC_021162.1	Ca_Kabuli_Chr03	31296272	AA	GG	GG	INTRON	101514876	myb-related protein Myb4
SNP_16433_A_31296494	NC_021162.1	Ca_Kabuli_Chr03	31296494	TT	AA	AA	DRR	101488719	Unknown function
SNP_16434_A_31296677	NC_021162.1	Ca_Kabuli_Chr03	31296677	AA	GG	GG	DRR	101488719	Unknown function
SNP_16435_A_31296787	NC_021162.1	Ca_Kabuli_Chr03	31296787	TT	CC	CC	DRR	101488719	Unknown function
SNP_16437_A_31296838	NC_021162.1	Ca_Kabuli_Chr03	31296838	TT	CC	CC	DRR	101488719	Unknown function
SNP_16438_A_31296993	NC_021162.1	Ca_Kabuli_Chr03	31296993	AA	GG	GG	DRR	101488719	Unknown function
SNP_16439_A_31298117	NC_021162.1	Ca_Kabuli_Chr03	31298117	GG	TT	TT	DRR	101515202	pre-mRNA-splicing factor SLU7-like
SNP_16442_A_31298655	NC_021162.1	Ca_Kabuli_Chr03	31298655	TT	CC	CC	DRR	101515202	pre-mRNA-splicing factor SLU7-like
SNP_16443_A_31302712	NC_021162.1	Ca_Kabuli_Chr03	31302712	CC	TT	TT	INTERGENIC		
SNP_16444_A_31314015	NC_021162.1	Ca_Kabuli_Chr03	31314015	AA	CC	CC	INTERGENIC		
SNP_16446_A_31322721	NC_021162.1	Ca_Kabuli_Chr03	31322721	TT	AA	AA	INTRON	101488604	target of Myb protein 1
SNP_16447_A_31323608	NC_021162.1	Ca_Kabuli_Chr03	31323608	TT	CC	CC	INTRON	101488604	target of Myb protein 1
SNP_16449_A_31327556	NC_021162.1	Ca_Kabuli_Chr03	31327556	GG	AA	AA	INTERGENIC		
SNP_16451_A_31328422	NC_021162.1	Ca_Kabuli_Chr03	31328422	TT	CC	CC	DRR	101489600	U-box domain-containing protein 3
SNP_16452_A_31328805	NC_021162.1	Ca_Kabuli_Chr03	31328805	GG	AA	AA	DRR	101489600	U-box domain-containing protein 3
SNP_16453_A_31333432	NC_021162.1	Ca_Kabuli_Chr03	31333432	CC	AA	AA	INTRON	101489600	U-box domain-containing protein 3
SNP_16454_A_31333917	NC_021162.1	Ca_Kabuli_Chr03	31333917	CC	TT	TT	DRR	101489600	U-box domain-containing protein 3
SNP_16455_A_31334118	NC_021162.1	Ca_Kabuli_Chr03	31334118	CC	GG	GG	URR	101489600	U-box domain-containing protein 3
SNP_16456_A_31336040	NC_021162.1	Ca_Kabuli_Chr03	31336040	CC	TT	TT	INTERGENIC		
SNP_16457_A_31336567	NC_021162.1	Ca_Kabuli_Chr03	31336567	GG	AA	AA	INTERGENIC		
SNP_16459_A_31336827	NC_021162.1	Ca_Kabuli_Chr03	31336827	CC	TT	TT	INTERGENIC		
SNP_16460_A_31336940	NC_021162.1	Ca_Kabuli_Chr03	31336940	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16461_A_31337533	NC_021162.1	Ca_Kabuli_Chr03	31337533	TT	GG	GG	INTERGENIC		
SNP_16462_A_31337540	NC_021162.1	Ca_Kabuli_Chr03	31337540	AA	TT	TT	INTERGENIC		
SNP_16463_A_31339155	NC_021162.1	Ca_Kabuli_Chr03	31339155	AA	GG	GG	INTERGENIC		
SNP_16465_A_31339569	NC_021162.1	Ca_Kabuli_Chr03	31339569	CC	TT	TT	INTERGENIC		
SNP_16466_A_31339739	NC_021162.1	Ca_Kabuli_Chr03	31339739	AA	TT	TT	DRR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16467_A_31339777	NC_021162.1	Ca_Kabuli_Chr03	31339777	AA	GG	GG	DRR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16468_A_31339788	NC_021162.1	Ca_Kabuli_Chr03	31339788	GG	TT	TT	DRR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16469_A_31340090	NC_021162.1	Ca_Kabuli_Chr03	31340090	AA	GG	GG	DRR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16470_A_31343065	NC_021162.1	Ca_Kabuli_Chr03	31343065	GG	AA	AA	URR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16472_A_31343891	NC_021162.1	Ca_Kabuli_Chr03	31343891	GG	AA	AA	URR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16473_A_31343898	NC_021162.1	Ca_Kabuli_Chr03	31343898	GG	AA	AA	URR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16474_A_31343902	NC_021162.1	Ca_Kabuli_Chr03	31343902	GG	AA	AA	URR	101490141	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like
SNP_16475_A_31347748	NC_021162.1	Ca_Kabuli_Chr03	31347748	AA	GG	GG	INTERGENIC		
SNP_16476_A_31347752	NC_021162.1	Ca_Kabuli_Chr03	31347752	GG	CC	CC	INTERGENIC		
SNP_16477_A_31347759	NC_021162.1	Ca_Kabuli_Chr03	31347759	AA	CC	CC	INTERGENIC		
SNP_16478_A_31347911	NC_021162.1	Ca_Kabuli_Chr03	31347911	AA	TT	TT	INTERGENIC		
SNP_16479_A_31348829	NC_021162.1	Ca_Kabuli_Chr03	31348829	TT	CC	CC	INTERGENIC		
SNP_16480_A_31353210	NC_021162.1	Ca_Kabuli_Chr03	31353210	GG	AA	AA	DRR	101490463	probable arabinose 5-phosphate isomerase
SNP_16482_A_31353259	NC_021162.1	Ca_Kabuli_Chr03	31353259	AA	GG	GG	DRR	101490463	probable arabinose 5-phosphate isomerase
SNP_16483_A_31353265	NC_021162.1	Ca_Kabuli_Chr03	31353265	AA	GG	GG	DRR	101490463	probable arabinose 5-phosphate isomerase
SNP_16484_A_31353694	NC_021162.1	Ca_Kabuli_Chr03	31353694	CC	TT	TT	DRR	101490463	probable arabinose 5-phosphate isomerase
SNP_16485_A_31353709	NC_021162.1	Ca_Kabuli_Chr03	31353709	TT	GG	GG	DRR	101490463	probable arabinose 5-phosphate isomerase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16486_A_31355460	NC_021162.1	Ca_Kabuli_Chr03	31355460	TT	CC	CC	INTERGENIC		
SNP_16487_A_31355693	NC_021162.1	Ca_Kabuli_Chr03	31355693	TT	GG	GG	INTERGENIC		
SNP_16488_A_31358137	NC_021162.1	Ca_Kabuli_Chr03	31358137	GG	TT	TT	URR	101490463	probable arabinose 5-phosphate isomerase
SNP_16489_A_31358425	NC_021162.1	Ca_Kabuli_Chr03	31358425	GG	CC	CC	URR	101490463	probable arabinose 5-phosphate isomerase
SNP_16490_A_31363577	NC_021162.1	Ca_Kabuli_Chr03	31363577	TT	CC	CC	URR	101490786	putative lysine-specific demethylase JMJ16
SNP_16491_A_31363915	NC_021162.1	Ca_Kabuli_Chr03	31363915	CC	TT	TT	URR	101490786	putative lysine-specific demethylase JMJ16
SNP_16492_A_31363919	NC_021162.1	Ca_Kabuli_Chr03	31363919	GG	AA	AA	URR	101490786	putative lysine-specific demethylase JMJ16
SNP_16495_A_31368814	NC_021162.1	Ca_Kabuli_Chr03	31368814	CC	TT	TT	DRR	101491532	NAC domain-containing protein 21/22
SNP_16496_A_31370964	NC_021162.1	Ca_Kabuli_Chr03	31370964	AA	GG	GG	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16497_A_31370965	NC_021162.1	Ca_Kabuli_Chr03	31370965	CC	AA	AA	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16498_A_31371009	NC_021162.1	Ca_Kabuli_Chr03	31371009	CC	TT	TT	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16499_A_31371021	NC_021162.1	Ca_Kabuli_Chr03	31371021	CC	TT	TT	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16500_A_31371051	NC_021162.1	Ca_Kabuli_Chr03	31371051	AA	CC	CC	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16501_A_31371067	NC_021162.1	Ca_Kabuli_Chr03	31371067	TT	GG	GG	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16503_A_31371541	NC_021162.1	Ca_Kabuli_Chr03	31371541	CC	TT	TT	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16504_A_31371558	NC_021162.1	Ca_Kabuli_Chr03	31371558	TT	CC	CC	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16505_A_31374999	NC_021162.1	Ca_Kabuli_Chr03	31374999	CC	TT	TT	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16506_A_31375813	NC_021162.1	Ca_Kabuli_Chr03	31375813	AA	TT	TT	INTRON	101491532	NAC domain-containing protein 21/22
SNP_16507_A_31376026	NC_021162.1	Ca_Kabuli_Chr03	31376026	AA	TT	TT	NON_SYNONYMOUS_CODING	101491532	NAC domain-containing protein 21/22
SNP_16508_A_31376587	NC_021162.1	Ca_Kabuli_Chr03	31376587	GG	TT	TT	URR	101491532	NAC domain-containing protein 21/22
SNP_16509_A_31376705	NC_021162.1	Ca_Kabuli_Chr03	31376705	GG	CC	CC	URR	101491532	NAC domain-containing protein 21/22
SNP_16510_A_31377101	NC_021162.1	Ca_Kabuli_Chr03	31377101	AA	CC	CC	URR	101491532	NAC domain-containing protein 21/22

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16511_A_31378760	NC_021162.1	Ca_Kabuli_Chr03	31378760	CC	TT	TT	INTERGENIC		
SNP_16512_A_31380333	NC_021162.1	Ca_Kabuli_Chr03	31380333	CC	GG	GG	INTERGENIC		
SNP_16513_A_31381445	NC_021162.1	Ca_Kabuli_Chr03	31381445	TT	AA	AA	INTERGENIC		
SNP_16515_A_31381767	NC_021162.1	Ca_Kabuli_Chr03	31381767	TT	CC	CC	INTERGENIC		
SNP_16516_A_31381787	NC_021162.1	Ca_Kabuli_Chr03	31381787	AA	GG	GG	INTERGENIC		
SNP_16517_A_31381806	NC_021162.1	Ca_Kabuli_Chr03	31381806	AA	CC	CC	INTERGENIC		
SNP_16519_A_31381820	NC_021162.1	Ca_Kabuli_Chr03	31381820	TT	CC	CC	INTERGENIC		
SNP_16520_A_31381938	NC_021162.1	Ca_Kabuli_Chr03	31381938	TT	CC	CC	INTERGENIC		
SNP_16521_A_31386986	NC_021162.1	Ca_Kabuli_Chr03	31386986	TT	CC	CC	INTERGENIC		
SNP_16522_A_31387042	NC_021162.1	Ca_Kabuli_Chr03	31387042	GG	AA	AA	INTERGENIC		
SNP_16523_A_31387568	NC_021162.1	Ca_Kabuli_Chr03	31387568	CC	TT	TT	INTERGENIC		
SNP_16525_A_31393344	NC_021162.1	Ca_Kabuli_Chr03	31393344	CC	TT	TT	INTERGENIC		
SNP_16526_A_31394023	NC_021162.1	Ca_Kabuli_Chr03	31394023	GG	AA	AA	INTERGENIC		
SNP_16527_A_31394044	NC_021162.1	Ca_Kabuli_Chr03	31394044	TT	CC	CC	INTERGENIC		
SNP_16528_A_31394047	NC_021162.1	Ca_Kabuli_Chr03	31394047	TT	GG	GG	INTERGENIC		
SNP_16529_A_31394362	NC_021162.1	Ca_Kabuli_Chr03	31394362	CC	GG	GG	INTERGENIC		
SNP_16530_A_31395817	NC_021162.1	Ca_Kabuli_Chr03	31395817	GG	TT	TT	INTERGENIC		
SNP_16531_A_31396057	NC_021162.1	Ca_Kabuli_Chr03	31396057	AA	GG	GG	INTERGENIC		
SNP_16532_A_31396116	NC_021162.1	Ca_Kabuli_Chr03	31396116	AA	GG	GG	INTERGENIC		
SNP_16533_A_31399710	NC_021162.1	Ca_Kabuli_Chr03	31399710	CC	AA	AA	INTERGENIC		
SNP_16536_A_31414195	NC_021162.1	Ca_Kabuli_Chr03	31414195	TT	GG	GG	URR	101491839	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2-like
SNP_16537_A_31414213	NC_021162.1	Ca_Kabuli_Chr03	31414213	AA	CC	CC	INTRON	101492406	H/ACA ribonucleoprotein complex subunit 3-like protein

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SNP_16538_A_31414536	NC_021162.1	Ca_Kabuli_Chr03	31414536	TT	AA	AA	INTRON	101492406	H/AcA ribonucleoprotein complex subunit 3-like protein
SNP_16539_A_31417551	NC_021162.1	Ca_Kabuli_Chr03	31417551	AA	GG	GG	DRR	101492739	serine/threonine-protein kinase tricorner
SNP_16540_A_31419948	NC_021162.1	Ca_Kabuli_Chr03	31419948	CC	TT	TT	SYNONYMOUS_CODING	101492739	serine/threonine-protein kinase tricorner
SNP_16542_A_31434642	NC_021162.1	Ca_Kabuli_Chr03	31434642	TT	CC	CC	URR	101493293	casein kinase I-like
SNP_16543_A_31434664	NC_021162.1	Ca_Kabuli_Chr03	31434664	CC	TT	TT	URR	101493293	casein kinase I-like
SNP_16544_A_31434743	NC_021162.1	Ca_Kabuli_Chr03	31434743	AA	GG	GG	URR	101493293	casein kinase I-like
SNP_16545_A_31434748	NC_021162.1	Ca_Kabuli_Chr03	31434748	TT	CC	CC	URR	101493293	casein kinase I-like
SNP_16546_A_31435013	NC_021162.1	Ca_Kabuli_Chr03	31435013	TT	CC	CC	URR	101493293	casein kinase I-like
SNP_16547_A_31435024	NC_021162.1	Ca_Kabuli_Chr03	31435024	AA	TT	TT	URR	101493293	casein kinase I-like
SNP_16548_A_31435896	NC_021162.1	Ca_Kabuli_Chr03	31435896	AA	CC	CC	DRR	101493614	vacuolar protein sorting-associated protein 2 homolog 3-like
SNP_16549_A_31439934	NC_021162.1	Ca_Kabuli_Chr03	31439934	AA	CC	CC	INTERGENIC		
SNP_16551_A_31443631	NC_021162.1	Ca_Kabuli_Chr03	31443631	CC	TT	TT	INTERGENIC		
SNP_16553_A_31446565	NC_021162.1	Ca_Kabuli_Chr03	31446565	AA	TT	TT	INTRON	101494257	glycolipid transfer protein 1-like
SNP_16554_A_31446605	NC_021162.1	Ca_Kabuli_Chr03	31446605	GG	CC	CC	INTRON	101494257	glycolipid transfer protein 1-like
SNP_16555_A_31447484	NC_021162.1	Ca_Kabuli_Chr03	31447484	TT	CC	CC	INTRON	101494257	glycolipid transfer protein 1-like
SNP_16556_A_31449151	NC_021162.1	Ca_Kabuli_Chr03	31449151	AA	GG	GG	URR	101494257	glycolipid transfer protein 1-like
SNP_16557_A_31454280	NC_021162.1	Ca_Kabuli_Chr03	31454280	TT	CC	CC	INTRON	101494765	glutathione gamma-glutamylcysteinyltransferase 1
SNP_16558_A_31454283	NC_021162.1	Ca_Kabuli_Chr03	31454283	AA	GG	GG	INTRON	101494765	glutathione gamma-glutamylcysteinyltransferase 1
SNP_16559_A_31454284	NC_021162.1	Ca_Kabuli_Chr03	31454284	TT	GG	GG	INTRON	101494765	glutathione gamma-glutamylcysteinyltransferase 1
SNP_16560_A_31458311	NC_021162.1	Ca_Kabuli_Chr03	31458311	TT	CC	CC	INTERGENIC		
SNP_16561_A_31458838	NC_021162.1	Ca_Kabuli_Chr03	31458838	AA	GG	GG	URR	101494765	glutathione gamma-glutamylcysteinyltransferase 1
SNP_16562_A_31459368	NC_021162.1	Ca_Kabuli_Chr03	31459368	CC	TT	TT	DRR	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16563_A_31459384	NC_021162.1	Ca_Kabuli_Chr03	31459384	GG	AA	AA	DRR	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like
SNP_16564_A_31459428	NC_021162.1	Ca_Kabuli_Chr03	31459428	GG	AA	AA	DRR	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like
SNP_16565_A_31459907	NC_021162.1	Ca_Kabuli_Chr03	31459907	TT	CC	CC	DRR	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like
SNP_16566_A_31461015	NC_021162.1	Ca_Kabuli_Chr03	31461015	AA	GG	GG	INTERGENIC		
SNP_16567_A_31465740	NC_021162.1	Ca_Kabuli_Chr03	31465740	CC	TT	TT	INTRON	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like
SNP_16568_A_31466823	NC_021162.1	Ca_Kabuli_Chr03	31466823	CC	TT	TT	INTRON	101495095	glutathione gamma-glutamylcysteinyltransferase 3-like
SNP_16570_A_31471729	NC_021162.1	Ca_Kabuli_Chr03	31471729	GG	AA	AA	INTERGENIC		
SNP_16571_A_31473282	NC_021162.1	Ca_Kabuli_Chr03	31473282	AA	GG	GG	INTERGENIC		
SNP_16572_A_31473504	NC_021162.1	Ca_Kabuli_Chr03	31473504	GG	AA	AA	INTERGENIC		
SNP_16573_A_31475350	NC_021162.1	Ca_Kabuli_Chr03	31475350	AA	CC	CC	INTERGENIC		
SNP_16574_A_31475353	NC_021162.1	Ca_Kabuli_Chr03	31475353	TT	CC	CC	INTERGENIC		
SNP_16575_A_31475354	NC_021162.1	Ca_Kabuli_Chr03	31475354	AA	GG	GG	INTERGENIC		
SNP_16576_A_31475704	NC_021162.1	Ca_Kabuli_Chr03	31475704	CC	TT	TT	INTERGENIC		
SNP_16577_A_31475707	NC_021162.1	Ca_Kabuli_Chr03	31475707	TT	CC	CC	INTERGENIC		
SNP_16578_A_31475844	NC_021162.1	Ca_Kabuli_Chr03	31475844	GG	AA	AA	INTERGENIC		
SNP_16579_A_31476037	NC_021162.1	Ca_Kabuli_Chr03	31476037	TT	CC	CC	DRR	101495423	long-chain-alcohol oxidase FAO2
SNP_16581_A_31476317	NC_021162.1	Ca_Kabuli_Chr03	31476317	AA	GG	GG	DRR	101495423	long-chain-alcohol oxidase FAO2
SNP_16583_A_31480284	NC_021162.1	Ca_Kabuli_Chr03	31480284	AA	TT	TT	INTERGENIC		
SNP_16585_A_31480845	NC_021162.1	Ca_Kabuli_Chr03	31480845	CC	TT	TT	URR	101495423	long-chain-alcohol oxidase FAO2
SNP_16586_A_31480867	NC_021162.1	Ca_Kabuli_Chr03	31480867	GG	AA	AA	URR	101495423	long-chain-alcohol oxidase FAO2
SNP_16587_A_31480876	NC_021162.1	Ca_Kabuli_Chr03	31480876	GG	AA	AA	URR	101495423	long-chain-alcohol oxidase FAO2
SNP_16588_A_31482029	NC_021162.1	Ca_Kabuli_Chr03	31482029	TT	CC	CC	URR	101495423	long-chain-alcohol oxidase FAO2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16589_A_31484959	NC_021162.1	Ca_Kabuli_Chr03	31484959	AA	GG	GG	INTERGENIC		
SNP_16590_A_31485005	NC_021162.1	Ca_Kabuli_Chr03	31485005	CC	TT	TT	INTERGENIC		
SNP_16591_A_31493381	NC_021162.1	Ca_Kabuli_Chr03	31493381	CC	GG	GG	INTERGENIC		
SNP_16592_A_31494935	NC_021162.1	Ca_Kabuli_Chr03	31494935	CC	TT	TT	DRR	101497164	rho GDP-dissociation inhibitor 1-like
SNP_16594_A_31495281	NC_021162.1	Ca_Kabuli_Chr03	31495281	TT	GG	GG	DRR	101497164	rho GDP-dissociation inhibitor 1-like
SNP_16595_A_31495288	NC_021162.1	Ca_Kabuli_Chr03	31495288	TT	GG	GG	DRR	101497164	rho GDP-dissociation inhibitor 1-like
SNP_16596_A_31496335	NC_021162.1	Ca_Kabuli_Chr03	31496335	TT	GG	GG	INTERGENIC		
SNP_16597_A_31497841	NC_021162.1	Ca_Kabuli_Chr03	31497841	AA	GG	GG	INTERGENIC		
SNP_16598_A_31498017	NC_021162.1	Ca_Kabuli_Chr03	31498017	TT	AA	AA	INTERGENIC		
SNP_16600_A_31501432	NC_021162.1	Ca_Kabuli_Chr03	31501432	GG	AA	AA	URR	101489387	Unknown function
SNP_16601_A_31504083	NC_021162.1	Ca_Kabuli_Chr03	31504083	AA	GG	GG	INTRON	101497495	phospholipid--sterol O-acyltransferase
SNP_16602_A_31504162	NC_021162.1	Ca_Kabuli_Chr03	31504162	TT	AA	AA	INTRON	101497495	phospholipid--sterol O-acyltransferase
SNP_16603_A_31506258	NC_021162.1	Ca_Kabuli_Chr03	31506258	AA	GG	GG	INTRON	101497495	phospholipid--sterol O-acyltransferase
SNP_16604_A_31506830	NC_021162.1	Ca_Kabuli_Chr03	31506830	AA	CC	CC	INTRON	101497495	phospholipid--sterol O-acyltransferase
SNP_16605_A_31511940	NC_021162.1	Ca_Kabuli_Chr03	31511940	TT	GG	GG	URR	101497495	phospholipid--sterol O-acyltransferase
SNP_16606_A_31512136	NC_021162.1	Ca_Kabuli_Chr03	31512136	CC	TT	TT	URR	101497495	phospholipid--sterol O-acyltransferase
SNP_16607_A_31512137	NC_021162.1	Ca_Kabuli_Chr03	31512137	GG	AA	AA	URR	101497495	phospholipid--sterol O-acyltransferase
SNP_16608_A_31512161	NC_021162.1	Ca_Kabuli_Chr03	31512161	CC	TT	TT	URR	101497495	phospholipid--sterol O-acyltransferase
SNP_16609_A_31513347	NC_021162.1	Ca_Kabuli_Chr03	31513347	TT	CC	CC	URR	101497495	phospholipid--sterol O-acyltransferase
SNP_16611_A_31514332	NC_021162.1	Ca_Kabuli_Chr03	31514332	TT	CC	CC	DRR	101489712	protein NRT1/ PTR FAMILY 5.2-like
SNP_16612_A_31516662	NC_021162.1	Ca_Kabuli_Chr03	31516662	GG	TT	TT	SYNONYMOUS_CODING	101489712	protein NRT1/ PTR FAMILY 5.2-like
SNP_16613_A_31517136	NC_021162.1	Ca_Kabuli_Chr03	31517136	GG	AA	AA	INTRON	101489712	protein NRT1/ PTR FAMILY 5.2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16615_A_31519880	NC_021162.1	Ca_Kabuli_Chr03	31519880	CC	TT	TT	URR	101489712	protein NRT1/ PTR FAMILY 5.2-like
SNP_16616_A_31520190	NC_021162.1	Ca_Kabuli_Chr03	31520190	TT	CC	CC	URR	101489712	protein NRT1/ PTR FAMILY 5.2-like
SNP_16617_A_31520198	NC_021162.1	Ca_Kabuli_Chr03	31520198	GG	AA	AA	URR	101489712	protein NRT1/ PTR FAMILY 5.2-like
SNP_16618_A_31527846	NC_021162.1	Ca_Kabuli_Chr03	31527846	AA	GG	GG	DRR	101498036	protein NRT1/ PTR FAMILY 5.2-like
SNP_16619_A_31530410	NC_021162.1	Ca_Kabuli_Chr03	31530410	TT	AA	AA	INTRON	101498036	protein NRT1/ PTR FAMILY 5.2-like
SNP_16621_A_31531382	NC_021162.1	Ca_Kabuli_Chr03	31531382	GG	AA	AA	INTRON	101498036	protein NRT1/ PTR FAMILY 5.2-like
SNP_16622_A_31538607	NC_021162.1	Ca_Kabuli_Chr03	31538607	GG	AA	AA	INTERGENIC		
SNP_16624_A_31543787	NC_021162.1	Ca_Kabuli_Chr03	31543787	CC	TT	TT	URR	101498370	BRCA1-associated RING domain protein 1
SNP_16625_A_31544194	NC_021162.1	Ca_Kabuli_Chr03	31544194	GG	AA	AA	URR	101498370	BRCA1-associated RING domain protein 1
SNP_16626_A_31544206	NC_021162.1	Ca_Kabuli_Chr03	31544206	AA	CC	CC	URR	101498370	BRCA1-associated RING domain protein 1
SNP_16627_A_31560700	NC_021162.1	Ca_Kabuli_Chr03	31560700	TT	AA	AA	INTERGENIC		
SNP_16628_A_31560701	NC_021162.1	Ca_Kabuli_Chr03	31560701	TT	CC	CC	INTERGENIC		
SNP_16630_A_31560710	NC_021162.1	Ca_Kabuli_Chr03	31560710	AA	GG	GG	INTERGENIC		
SNP_16632_A_31563174	NC_021162.1	Ca_Kabuli_Chr03	31563174	TT	CC	CC	INTERGENIC		
SNP_16633_A_31563195	NC_021162.1	Ca_Kabuli_Chr03	31563195	AA	TT	TT	INTERGENIC		
SNP_16634_A_31563199	NC_021162.1	Ca_Kabuli_Chr03	31563199	CC	TT	TT	INTERGENIC		
SNP_16635_A_31563214	NC_021162.1	Ca_Kabuli_Chr03	31563214	GG	AA	AA	INTERGENIC		
SNP_16636_A_31563272	NC_021162.1	Ca_Kabuli_Chr03	31563272	CC	TT	TT	INTERGENIC		
SNP_16637_A_31563282	NC_021162.1	Ca_Kabuli_Chr03	31563282	GG	AA	AA	INTERGENIC		
SNP_16638_A_31563553	NC_021162.1	Ca_Kabuli_Chr03	31563553	GG	AA	AA	INTERGENIC		
SNP_16639_A_31563575	NC_021162.1	Ca_Kabuli_Chr03	31563575	GG	AA	AA	INTERGENIC		
SNP_16640_A_31563576	NC_021162.1	Ca_Kabuli_Chr03	31563576	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16641_A_31563584	NC_021162.1	Ca_Kabuli_Chr03	31563584	TT	CC	CC	INTERGENIC		
SNP_16642_A_31565174	NC_021162.1	Ca_Kabuli_Chr03	31565174	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_16643_A_31565210	NC_021162.1	Ca_Kabuli_Chr03	31565210	AA	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_16644_A_31565398	NC_021162.1	Ca_Kabuli_Chr03	31565398	TT	GG	GG	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16645_A_31565399	NC_021162.1	Ca_Kabuli_Chr03	31565399	GG	AA	AA	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16646_A_31565411	NC_021162.1	Ca_Kabuli_Chr03	31565411	TT	GG	GG	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16647_A_31565543	NC_021162.1	Ca_Kabuli_Chr03	31565543	AA	GG	GG	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16648_A_31565657	NC_021162.1	Ca_Kabuli_Chr03	31565657	CC	TT	TT	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16649_A_31565674	NC_021162.1	Ca_Kabuli_Chr03	31565674	GG	CC	CC	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16650_A_31565676	NC_021162.1	Ca_Kabuli_Chr03	31565676	AA	GG	GG	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16651_A_31565696	NC_021162.1	Ca_Kabuli_Chr03	31565696	CC	AA	AA	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16652_A_31565990	NC_021162.1	Ca_Kabuli_Chr03	31565990	TT	CC	CC	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16653_A_31566048	NC_021162.1	Ca_Kabuli_Chr03	31566048	TT	AA	AA	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16654_A_31566094	NC_021162.1	Ca_Kabuli_Chr03	31566094	GG	AA	AA	DRR	101499035	protein PHR1-LIKE 1-like
SNP_16656_A_31567070	NC_021162.1	Ca_Kabuli_Chr03	31567070	TT	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_16657_A_31570892	NC_021162.1	Ca_Kabuli_Chr03	31570892	TT	CC	CC	INTRON	101499035	protein PHR1-LIKE 1-like
SNP_16658_A_31572298	NC_021162.1	Ca_Kabuli_Chr03	31572298	TT	AA	AA	URR	101499035	protein PHR1-LIKE 1-like
SNP_16659_A_31575128	NC_021162.1	Ca_Kabuli_Chr03	31575128	CC	AA	AA	URR	101499035	protein PHR1-LIKE 1-like
SNP_16660_A_31578205	NC_021162.1	Ca_Kabuli_Chr03	31578205	GG	AA	AA	INTERGENIC		
SNP_16661_A_31578217	NC_021162.1	Ca_Kabuli_Chr03	31578217	AA	CC	CC	INTERGENIC		
SNP_16662_A_31578521	NC_021162.1	Ca_Kabuli_Chr03	31578521	TT	GG	GG	INTERGENIC		
SNP_16663_A_31578677	NC_021162.1	Ca_Kabuli_Chr03	31578677	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16664_A_31578689	NC_021162.1	Ca_Kabuli_Chr03	31578689	AA	CC	CC	INTERGENIC		
SNP_16665_A_31578708	NC_021162.1	Ca_Kabuli_Chr03	31578708	TT	AA	AA	INTERGENIC		
SNP_16666_A_31585993	NC_021162.1	Ca_Kabuli_Chr03	31585993	GG	AA	AA	DRR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16667_A_31591180	NC_021162.1	Ca_Kabuli_Chr03	31591180	TT	CC	CC	INTRON	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16668_A_31594709	NC_021162.1	Ca_Kabuli_Chr03	31594709	TT	AA	AA	URR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16669_A_31594711	NC_021162.1	Ca_Kabuli_Chr03	31594711	TT	GG	GG	URR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16670_A_31594863	NC_021162.1	Ca_Kabuli_Chr03	31594863	GG	AA	AA	URR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16671_A_31594902	NC_021162.1	Ca_Kabuli_Chr03	31594902	CC	TT	TT	URR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16672_A_31595157	NC_021162.1	Ca_Kabuli_Chr03	31595157	AA	GG	GG	URR	101500192	histone-lysine N-methyltransferase SUV2-like
SNP_16676_A_31602668	NC_021162.1	Ca_Kabuli_Chr03	31602668	CC	TT	TT	URR	101490371	serine/threonine-protein phosphatase 7 long form homolog
SNP_16677_A_31602732	NC_021162.1	Ca_Kabuli_Chr03	31602732	AA	GG	GG	URR	101490371	serine/threonine-protein phosphatase 7 long form homolog
SNP_16678_A_31602736	NC_021162.1	Ca_Kabuli_Chr03	31602736	GG	AA	AA	URR	101490371	serine/threonine-protein phosphatase 7 long form homolog
SNP_16679_A_31602903	NC_021162.1	Ca_Kabuli_Chr03	31602903	TT	GG	GG	URR	101490694	Unknown function
SNP_16681_A_31602945	NC_021162.1	Ca_Kabuli_Chr03	31602945	AA	CC	CC	URR	101490694	Unknown function
SNP_16682_A_31607150	NC_021162.1	Ca_Kabuli_Chr03	31607150	GG	CC	CC	INTRON	101500934	cysteine-rich repeat secretory protein 56-like
SNP_16684_A_31607988	NC_021162.1	Ca_Kabuli_Chr03	31607988	TT	CC	CC	URR	101500934	cysteine-rich repeat secretory protein 56-like
SNP_16685_A_31607994	NC_021162.1	Ca_Kabuli_Chr03	31607994	GG	CC	CC	URR	101500934	cysteine-rich repeat secretory protein 56-like
SNP_16686_A_31607995	NC_021162.1	Ca_Kabuli_Chr03	31607995	GG	TT	TT	URR	101500934	cysteine-rich repeat secretory protein 56-like
SNP_16687_A_31609499	NC_021162.1	Ca_Kabuli_Chr03	31609499	CC	TT	TT	URR	101500934	cysteine-rich repeat secretory protein 56-like
SNP_16689_A_31610710	NC_021162.1	Ca_Kabuli_Chr03	31610710	CC	TT	TT	INTERGENIC		
SNP_16690_A_31610828	NC_021162.1	Ca_Kabuli_Chr03	31610828	CC	TT	TT	INTERGENIC		
SNP_16691_A_31610852	NC_021162.1	Ca_Kabuli_Chr03	31610852	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16692_A_31610908	NC_021162.1	Ca_Kabuli_Chr03	31610908	GG	AA	AA	INTERGENIC		
SNP_16693_A_31610914	NC_021162.1	Ca_Kabuli_Chr03	31610914	GG	TT	TT	INTERGENIC		
SNP_16694_A_31610916	NC_021162.1	Ca_Kabuli_Chr03	31610916	AA	TT	TT	INTERGENIC		
SNP_16696_A_31611162	NC_021162.1	Ca_Kabuli_Chr03	31611162	GG	TT	TT	INTERGENIC		
SNP_16697_A_31614115	NC_021162.1	Ca_Kabuli_Chr03	31614115	GG	AA	AA	INTERGENIC		
SNP_16698_A_31614129	NC_021162.1	Ca_Kabuli_Chr03	31614129	GG	CC	CC	INTERGENIC		
SNP_16699_A_31614133	NC_021162.1	Ca_Kabuli_Chr03	31614133	CC	TT	TT	INTERGENIC		
SNP_16700_A_31614164	NC_021162.1	Ca_Kabuli_Chr03	31614164	CC	TT	TT	INTERGENIC		
SNP_16701_A_31614165	NC_021162.1	Ca_Kabuli_Chr03	31614165	TT	AA	AA	INTERGENIC		
SNP_16702_A_31614196	NC_021162.1	Ca_Kabuli_Chr03	31614196	GG	AA	AA	INTERGENIC		
SNP_16703_A_31614199	NC_021162.1	Ca_Kabuli_Chr03	31614199	GG	TT	TT	INTERGENIC		
SNP_16704_A_31614253	NC_021162.1	Ca_Kabuli_Chr03	31614253	GG	TT	TT	INTERGENIC		
SNP_16705_A_31614257	NC_021162.1	Ca_Kabuli_Chr03	31614257	GG	AA	AA	INTERGENIC		
SNP_16706_A_31614478	NC_021162.1	Ca_Kabuli_Chr03	31614478	CC	TT	TT	INTERGENIC		
SNP_16707_A_31619923	NC_021162.1	Ca_Kabuli_Chr03	31619923	CC	TT	TT	SYNONYMOUS_CODING	101501466	pre-mRNA-processing factor 39
SNP_16708_A_31623810	NC_021162.1	Ca_Kabuli_Chr03	31623810	AA	GG	GG	INTRON	101501466	pre-mRNA-processing factor 39
SNP_16709_A_31625307	NC_021162.1	Ca_Kabuli_Chr03	31625307	TT	GG	GG	INTRON	101501466	pre-mRNA-processing factor 39
SNP_16710_A_31627871	NC_021162.1	Ca_Kabuli_Chr03	31627871	TT	CC	CC	DRR	101501784	putative G3BP-like protein
SNP_16711_A_31628593	NC_021162.1	Ca_Kabuli_Chr03	31628593	CC	TT	TT	URR	101501466	pre-mRNA-processing factor 39
SNP_16712_A_31629099	NC_021162.1	Ca_Kabuli_Chr03	31629099	GG	AA	AA	INTERGENIC		
SNP_16714_A_31633990	NC_021162.1	Ca_Kabuli_Chr03	31633990	AA	CC	CC	INTERGENIC		
SNP_16715_A_31634511	NC_021162.1	Ca_Kabuli_Chr03	31634511	TT	AA	AA	URR	101501784	putative G3BP-like protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16716_A_31637621	NC_021162.1	Ca_Kabuli_Chr03	31637621	GG	TT	TT	DRR	101491012	leucine-rich repeat receptor-like protein kinase PXL2
SNP_16717_A_31646439	NC_021162.1	Ca_Kabuli_Chr03	31646439	GG	AA	AA	DRR	101502842	uncharacterized LOC101502842
SNP_16718_A_31646454	NC_021162.1	Ca_Kabuli_Chr03	31646454	AA	GG	GG	DRR	101502842	uncharacterized LOC101502842
SNP_16719_A_31651602	NC_021162.1	Ca_Kabuli_Chr03	31651602	CC	TT	TT	URR	101502842	uncharacterized LOC101502842
SNP_16720_A_31656226	NC_021162.1	Ca_Kabuli_Chr03	31656226	CC	TT	TT	INTERGENIC		
SNP_16726_A_31940335	NC_021162.1	Ca_Kabuli_Chr03	31940335	AA	GG	GG	INTERGENIC		
SNP_16727_A_31940438	NC_021162.1	Ca_Kabuli_Chr03	31940438	CC	GG	GG	INTERGENIC		
SNP_16728_A_31940508	NC_021162.1	Ca_Kabuli_Chr03	31940508	CC	TT	TT	INTERGENIC		
SNP_16729_A_31940682	NC_021162.1	Ca_Kabuli_Chr03	31940682	GG	AA	AA	INTERGENIC		
SNP_16730_A_31960732	NC_021162.1	Ca_Kabuli_Chr03	31960732	AA	GG	GG	URR	101511526	CLIP-associated protein-like
SNP_16731_A_31987983	NC_021162.1	Ca_Kabuli_Chr03	31987983	CC	TT	TT	URR	101514002	26S proteasome regulatory subunit 4 homolog A
SNP_16732_A_31988330	NC_021162.1	Ca_Kabuli_Chr03	31988330	GG	AA	AA	URR	101514002	26S proteasome regulatory subunit 4 homolog A
SNP_16733_A_32334899	NC_021162.1	Ca_Kabuli_Chr03	32334899	TT	CC	CC	NON_SYNONYMOUS_CODING	101502214	serine/threonine-protein phosphatase 7 long form homolog
SNP_16734_A_32334940	NC_021162.1	Ca_Kabuli_Chr03	32334940	AA	CC	CC	NON_SYNONYMOUS_CODING	101502214	serine/threonine-protein phosphatase 7 long form homolog
SNP_16735_A_32334949	NC_021162.1	Ca_Kabuli_Chr03	32334949	TT	CC	CC	NON_SYNONYMOUS_CODING	101502214	serine/threonine-protein phosphatase 7 long form homolog
SNP_16736_A_32336077	NC_021162.1	Ca_Kabuli_Chr03	32336077	TT	CC	CC	URR	101502214	serine/threonine-protein phosphatase 7 long form homolog
SNP_16737_A_32336301	NC_021162.1	Ca_Kabuli_Chr03	32336301	AA	CC	CC	URR	101502214	serine/threonine-protein phosphatase 7 long form homolog
SNP_16739_A_32378897	NC_021162.1	Ca_Kabuli_Chr03	32378897	GG	AA	AA	INTRON	101503165	uncharacterized LOC101503165
SNP_16741_A_32413071	NC_021162.1	Ca_Kabuli_Chr03	32413071	CC	GG	GG	INTERGENIC		
SNP_16742_A_32414372	NC_021162.1	Ca_Kabuli_Chr03	32414372	TT	CC	CC	INTERGENIC		
SNP_16743_A_32414401	NC_021162.1	Ca_Kabuli_Chr03	32414401	TT	CC	CC	INTERGENIC		
SNP_16744_A_32414411	NC_021162.1	Ca_Kabuli_Chr03	32414411	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16745_A_32414708	NC_021162.1	Ca_Kabuli_Chr03	32414708	TT	CC	CC	INTERGENIC		
SNP_16746_A_32414834	NC_021162.1	Ca_Kabuli_Chr03	32414834	TT	CC	CC	INTERGENIC		
SNP_16747_A_32414897	NC_021162.1	Ca_Kabuli_Chr03	32414897	AA	GG	GG	INTERGENIC		
SNP_16748_A_32414898	NC_021162.1	Ca_Kabuli_Chr03	32414898	GG	AA	AA	INTERGENIC		
SNP_16749_A_32457747	NC_021162.1	Ca_Kabuli_Chr03	32457747	GG	AA	AA	INTRON	id57470	Unknown function
SNP_16750_A_32457924	NC_021162.1	Ca_Kabuli_Chr03	32457924	CC	AA	AA	SPLICE_SITE_REGION	id57470	Unknown function
SNP_16751_A_32458016	NC_021162.1	Ca_Kabuli_Chr03	32458016	CC	AA	AA	NON_SYNONYMOUS_CODING	id57470	Unknown function
SNP_16752_A_32458192	NC_021162.1	Ca_Kabuli_Chr03	32458192	CC	AA	AA	INTRON	id57470	Unknown function
SNP_16753_A_32458230	NC_021162.1	Ca_Kabuli_Chr03	32458230	CC	TT	TT	INTRON	id57470	Unknown function
SNP_16754_A_32482929	NC_021162.1	Ca_Kabuli_Chr03	32482929	TT	CC	CC	URR	101498149	elongation factor 1-delta 2-like
SNP_16755_A_32514916	NC_021162.1	Ca_Kabuli_Chr03	32514916	GG	CC	CC	INTERGENIC		
SNP_16756_A_32515605	NC_021162.1	Ca_Kabuli_Chr03	32515605	GG	AA	AA	INTERGENIC		
SNP_16758_A_32589733	NC_021162.1	Ca_Kabuli_Chr03	32589733	AA	TT	TT	URR	101410598	transfer RNA arginine (anticodon UCG)
SNP_16759_A_32589963	NC_021162.1	Ca_Kabuli_Chr03	32589963	CC	TT	TT	URR	101410598	transfer RNA arginine (anticodon UCG)
SNP_16760_A_32590005	NC_021162.1	Ca_Kabuli_Chr03	32590005	GG	AA	AA	URR	101410598	transfer RNA arginine (anticodon UCG)
SNP_16761_A_32590021	NC_021162.1	Ca_Kabuli_Chr03	32590021	TT	CC	CC	URR	101410598	transfer RNA arginine (anticodon UCG)
SNP_16762_A_32590085	NC_021162.1	Ca_Kabuli_Chr03	32590085	CC	TT	TT	URR	101410598	transfer RNA arginine (anticodon UCG)
SNP_16764_A_32627171	NC_021162.1	Ca_Kabuli_Chr03	32627171	GG	AA	AA	URR	101503482	uncharacterized LOC101503482
SNP_16766_A_32696216	NC_021162.1	Ca_Kabuli_Chr03	32696216	TT	CC	CC	URR	101506829	probable protein phosphatase 2C 38
SNP_16767_A_32720754	NC_021162.1	Ca_Kabuli_Chr03	32720754	AA	GG	GG	DRR	101505754	uncharacterized LOC101505754
SNP_16768_A_32752150	NC_021162.1	Ca_Kabuli_Chr03	32752150	GG	AA	AA	URR	101510782	pentatricopeptide repeat-containing protein At5g02830, chloroplastic
SNP_16769_A_32784592	NC_021162.1	Ca_Kabuli_Chr03	32784592	GG	AA	AA	SYNONYMOUS_CODING	101511746	probable LRR receptor-like serine/threonine-protein kinase At1g67720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16770_A_32790149	NC_021162.1	Ca_Kabuli_Chr03	32790149	GG	TT	TT	DRR	101512494	nuclear transcription factor Y subunit B-10
SNP_16771_A_32835392	NC_021162.1	Ca_Kabuli_Chr03	32835392	GG	CC	CC	INTERGENIC		
SNP_16772_A_32948677	NC_021162.1	Ca_Kabuli_Chr03	32948677	CC	AA	AA	DRR	101491841	dnaJ protein P58IPK homolog
SNP_16773_A_32982680	NC_021162.1	Ca_Kabuli_Chr03	32982680	CC	TT	TT	URR	101493717	probable E3 ubiquitin-protein ligase LOG2
SNP_16774_A_32993002	NC_021162.1	Ca_Kabuli_Chr03	32993002	AA	TT	TT	URR	101494566	aquaporin PIP2-5-like
SNP_16775_A_33039585	NC_021162.1	Ca_Kabuli_Chr03	33039585	GG	AA	AA	INTERGENIC		
SNP_16776_A_33083363	NC_021162.1	Ca_Kabuli_Chr03	33083363	GG	AA	AA	INTRON	101506720	chromodomain-helicase-DNA-binding protein 3-like
SNP_16778_A_33121835	NC_021162.1	Ca_Kabuli_Chr03	33121835	TT	GG	GG	INTERGENIC		
SNP_16780_A_33228442	NC_021162.1	Ca_Kabuli_Chr03	33228442	GG	AA	AA	DRR	101501354	histidine--tRNA ligase, cytoplasmic
SNP_16782_A_33252803	NC_021162.1	Ca_Kabuli_Chr03	33252803	AA	TT	TT	INTERGENIC		
SNP_16783_A_33323445	NC_021162.1	Ca_Kabuli_Chr03	33323445	CC	GG	GG	DRR	101508637	CASP-like protein 2D1
SNP_16784_A_33333343	NC_021162.1	Ca_Kabuli_Chr03	33333343	AA	CC	CC	INTERGENIC		
SNP_16785_A_33335631	NC_021162.1	Ca_Kabuli_Chr03	33335631	GG	AA	AA	INTERGENIC		
SNP_16787_A_33358443	NC_021162.1	Ca_Kabuli_Chr03	33358443	AA	GG	GG	DRR	101512619	Unknown function
SNP_16788_A_33381138	NC_021162.1	Ca_Kabuli_Chr03	33381138	AA	GG	GG	INTERGENIC		
SNP_16790_A_33393522	NC_021162.1	Ca_Kabuli_Chr03	33393522	GG	TT	TT	INTERGENIC		
SNP_16791_A_33419582	NC_021162.1	Ca_Kabuli_Chr03	33419582	CC	TT	TT	INTERGENIC		
SNP_16792_A_33435087	NC_021162.1	Ca_Kabuli_Chr03	33435087	GG	CC	CC	INTERGENIC		
SNP_16794_A_33531508	NC_021162.1	Ca_Kabuli_Chr03	33531508	CC	TT	TT	INTRON	101510452	protein SHOOT GRAVITROPISM 6-like
SNP_16795_A_33540265	NC_021162.1	Ca_Kabuli_Chr03	33540265	AA	GG	GG	INTERGENIC		
SNP_16797_A_33568225	NC_021162.1	Ca_Kabuli_Chr03	33568225	TT	CC	CC	URR	101511309	UDP-glycosyltransferase 73C2-like
SNP_16798_A_33568229	NC_021162.1	Ca_Kabuli_Chr03	33568229	TT	CC	CC	URR	101511309	UDP-glycosyltransferase 73C2-like

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SNP_16799_A_33599246	NC_021162.1	Ca_Kabuli_Chr03	33599246	CC	TT	TT	INTERGENIC		
SNP_16800_A_33624738	NC_021162.1	Ca_Kabuli_Chr03	33624738	CC	TT	TT	INTRON	101515204	uncharacterized LOC101515204
SNP_16801_A_33626018	NC_021162.1	Ca_Kabuli_Chr03	33626018	TT	AA	AA	INTRON	101515204	uncharacterized LOC101515204
SNP_16802_A_33629825	NC_021162.1	Ca_Kabuli_Chr03	33629825	GG	TT	TT	INTERGENIC		
SNP_16803_A_33629844	NC_021162.1	Ca_Kabuli_Chr03	33629844	TT	CC	CC	INTERGENIC		
SNP_16804_A_33629856	NC_021162.1	Ca_Kabuli_Chr03	33629856	CC	TT	TT	INTERGENIC		
SNP_16805_A_33629971	NC_021162.1	Ca_Kabuli_Chr03	33629971	GG	AA	AA	INTERGENIC		
SNP_16806_A_33630022	NC_021162.1	Ca_Kabuli_Chr03	33630022	GG	AA	AA	INTERGENIC		
SNP_16807_A_33639994	NC_021162.1	Ca_Kabuli_Chr03	33639994	GG	AA	AA	INTERGENIC		
SNP_16808_A_33645952	NC_021162.1	Ca_Kabuli_Chr03	33645952	AA	TT	TT	INTERGENIC		
SNP_16809_A_33652209	NC_021162.1	Ca_Kabuli_Chr03	33652209	TT	CC	CC	INTERGENIC		
SNP_16810_A_33662368	NC_021162.1	Ca_Kabuli_Chr03	33662368	CC	TT	TT	INTERGENIC		
SNP_16811_A_33662374	NC_021162.1	Ca_Kabuli_Chr03	33662374	TT	GG	GG	INTERGENIC		
SNP_16812_A_33683491	NC_021162.1	Ca_Kabuli_Chr03	33683491	AA	CC	CC	INTERGENIC		
SNP_16813_A_33712529	NC_021162.1	Ca_Kabuli_Chr03	33712529	CC	GG	GG	DRR	101515525	uncharacterized LOC101515525
SNP_16816_A_33777738	NC_021162.1	Ca_Kabuli_Chr03	33777738	CC	AA	AA	INTERGENIC		
SNP_16817_A_33778522	NC_021162.1	Ca_Kabuli_Chr03	33778522	GG	AA	AA	INTERGENIC		
SNP_16818_A_33779104	NC_021162.1	Ca_Kabuli_Chr03	33779104	TT	AA	AA	INTERGENIC		
SNP_16819_A_33791762	NC_021162.1	Ca_Kabuli_Chr03	33791762	AA	GG	GG	DRR	101497833	Unknown function
SNP_16820_A_33792119	NC_021162.1	Ca_Kabuli_Chr03	33792119	TT	AA	AA	INTERGENIC		
SNP_16821_A_33792129	NC_021162.1	Ca_Kabuli_Chr03	33792129	AA	CC	CC	INTERGENIC		
SNP_16822_A_33792176	NC_021162.1	Ca_Kabuli_Chr03	33792176	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16823_A_33792181	NC_021162.1	Ca_Kabuli_Chr03	33792181	GG	TT	TT	INTERGENIC		
SNP_16824_A_33794702	NC_021162.1	Ca_Kabuli_Chr03	33794702	AA	GG	GG	DRR	101498151	uncharacterized LOC101498151
SNP_16825_A_33794836	NC_021162.1	Ca_Kabuli_Chr03	33794836	AA	CC	CC	DRR	101498151	uncharacterized LOC101498151
SNP_16826_A_33795129	NC_021162.1	Ca_Kabuli_Chr03	33795129	AA	CC	CC	DRR	101498151	uncharacterized LOC101498151
SNP_16827_A_33795138	NC_021162.1	Ca_Kabuli_Chr03	33795138	GG	AA	AA	DRR	101498151	uncharacterized LOC101498151
SNP_16828_A_33795248	NC_021162.1	Ca_Kabuli_Chr03	33795248	AA	GG	GG	DRR	101498151	uncharacterized LOC101498151
SNP_16829_A_33813187	NC_021162.1	Ca_Kabuli_Chr03	33813187	CC	TT	TT	INTERGENIC		
SNP_16830_A_33827947	NC_021162.1	Ca_Kabuli_Chr03	33827947	AA	CC	CC	INTERGENIC		
SNP_16832_A_33848360	NC_021162.1	Ca_Kabuli_Chr03	33848360	GG	AA	AA	INTERGENIC		
SNP_16833_A_33848879	NC_021162.1	Ca_Kabuli_Chr03	33848879	CC	TT	TT	INTERGENIC		
SNP_16834_A_33859229	NC_021162.1	Ca_Kabuli_Chr03	33859229	TT	AA	AA	INTERGENIC		
SNP_16836_A_33883300	NC_021162.1	Ca_Kabuli_Chr03	33883300	TT	CC	CC	INTERGENIC		
SNP_16837_A_33909689	NC_021162.1	Ca_Kabuli_Chr03	33909689	GG	AA	AA	INTRON	101493718	putative pentatricopeptide repeat-containing protein At3g11460
SNP_16838_A_33914071	NC_021162.1	Ca_Kabuli_Chr03	33914071	TT	GG	GG	URR	101493718	putative pentatricopeptide repeat-containing protein At3g11460
SNP_16841_A_33990236	NC_021162.1	Ca_Kabuli_Chr03	33990236	AA	CC	CC	INTERGENIC		
SNP_16842_A_34022739	NC_021162.1	Ca_Kabuli_Chr03	34022739	CC	AA	AA	INTERGENIC		
SNP_16843_A_34032814	NC_021162.1	Ca_Kabuli_Chr03	34032814	CC	TT	TT	INTERGENIC		
SNP_16846_A_34032942	NC_021162.1	Ca_Kabuli_Chr03	34032942	GG	CC	CC	INTERGENIC		
SNP_16847_A_34033774	NC_021162.1	Ca_Kabuli_Chr03	34033774	AA	GG	GG	INTERGENIC		
SNP_16848_A_34065648	NC_021162.1	Ca_Kabuli_Chr03	34065648	CC	TT	TT	INTERGENIC		
SNP_16849_A_34065668	NC_021162.1	Ca_Kabuli_Chr03	34065668	AA	GG	GG	INTERGENIC		
SNP_16850_A_34065679	NC_021162.1	Ca_Kabuli_Chr03	34065679	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16851_A_34065712	NC_021162.1	Ca_Kabuli_Chr03	34065712	TT	CC	CC	INTERGENIC		
SNP_16852_A_34069902	NC_021162.1	Ca_Kabuli_Chr03	34069902	GG	CC	CC	INTERGENIC		
SNP_16853_A_34087253	NC_021162.1	Ca_Kabuli_Chr03	34087253	TT	CC	CC	INTERGENIC		
SNP_16854_A_34087294	NC_021162.1	Ca_Kabuli_Chr03	34087294	GG	AA	AA	INTERGENIC		
SNP_16855_A_34109568	NC_021162.1	Ca_Kabuli_Chr03	34109568	CC	AA	AA	INTERGENIC		
SNP_16856_A_34109570	NC_021162.1	Ca_Kabuli_Chr03	34109570	TT	AA	AA	INTERGENIC		
SNP_16857_A_34128505	NC_021162.1	Ca_Kabuli_Chr03	34128505	TT	CC	CC	INTERGENIC		
SNP_16858_A_34142796	NC_021162.1	Ca_Kabuli_Chr03	34142796	CC	TT	TT	INTERGENIC		
SNP_16860_A_34151392	NC_021162.1	Ca_Kabuli_Chr03	34151392	CC	AA	AA	INTERGENIC		
SNP_16862_A_34161182	NC_021162.1	Ca_Kabuli_Chr03	34161182	GG	CC	CC	INTERGENIC		
SNP_16863_A_34169411	NC_021162.1	Ca_Kabuli_Chr03	34169411	GG	AA	AA	INTERGENIC		
SNP_16864_A_34193885	NC_021162.1	Ca_Kabuli_Chr03	34193885	TT	AA	AA	INTRON	101500726	Unknown function
SNP_16865_A_34217927	NC_021162.1	Ca_Kabuli_Chr03	34217927	GG	AA	AA	URR	101501036	Unknown function
SNP_16867_A_34302947	NC_021162.1	Ca_Kabuli_Chr03	34302947	TT	AA	AA	INTERGENIC		
SNP_16868_A_34340892	NC_021162.1	Ca_Kabuli_Chr03	34340892	AA	CC	CC	URR	101505514	ACT domain-containing protein ACR10-like
SNP_16869_A_34352788	NC_021162.1	Ca_Kabuli_Chr03	34352788	GG	CC	CC	INTRON	id58692	Unknown function
SNP_16870_A_34365026	NC_021162.1	Ca_Kabuli_Chr03	34365026	TT	AA	AA	INTERGENIC		
SNP_16871_A_34365163	NC_021162.1	Ca_Kabuli_Chr03	34365163	GG	AA	AA	INTERGENIC		
SNP_16872_A_34365203	NC_021162.1	Ca_Kabuli_Chr03	34365203	GG	TT	TT	INTERGENIC		
SNP_16874_A_34365265	NC_021162.1	Ca_Kabuli_Chr03	34365265	TT	GG	GG	INTERGENIC		
SNP_16875_A_34367367	NC_021162.1	Ca_Kabuli_Chr03	34367367	AA	TT	TT	INTERGENIC		
SNP_16877_A_34460855	NC_021162.1	Ca_Kabuli_Chr03	34460855	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16878_A_34464327	NC_021162.1	Ca_Kabuli_Chr03	34464327	CC	TT	TT	INTERGENIC		
SNP_16880_A_34491162	NC_021162.1	Ca_Kabuli_Chr03	34491162	GG	AA	AA	URR	101510356	Unknown function
SNP_16882_A_34495996	NC_021162.1	Ca_Kabuli_Chr03	34495996	TT	AA	AA	DRR	101509269	WD repeat-containing protein 3
SNP_16885_A_34521538	NC_021162.1	Ca_Kabuli_Chr03	34521538	GG	AA	AA	INTERGENIC		
SNP_16886_A_34521539	NC_021162.1	Ca_Kabuli_Chr03	34521539	AA	GG	GG	INTERGENIC		
SNP_16887_A_34523789	NC_021162.1	Ca_Kabuli_Chr03	34523789	GG	AA	AA	INTERGENIC		
SNP_16888_A_34525218	NC_021162.1	Ca_Kabuli_Chr03	34525218	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16889_A_34527469	NC_021162.1	Ca_Kabuli_Chr03	34527469	TT	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16890_A_34527474	NC_021162.1	Ca_Kabuli_Chr03	34527474	TT	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16891_A_34531329	NC_021162.1	Ca_Kabuli_Chr03	34531329	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16892_A_34531557	NC_021162.1	Ca_Kabuli_Chr03	34531557	GG	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16893_A_34531583	NC_021162.1	Ca_Kabuli_Chr03	34531583	TT	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16894_A_34531598	NC_021162.1	Ca_Kabuli_Chr03	34531598	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16895_A_34531807	NC_021162.1	Ca_Kabuli_Chr03	34531807	GG	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16896_A_34533752	NC_021162.1	Ca_Kabuli_Chr03	34533752	CC	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16897_A_34535964	NC_021162.1	Ca_Kabuli_Chr03	34535964	TT	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16898_A_34538170	NC_021162.1	Ca_Kabuli_Chr03	34538170	TT	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16899_A_34538175	NC_021162.1	Ca_Kabuli_Chr03	34538175	AA	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16901_A_34538864	NC_021162.1	Ca_Kabuli_Chr03	34538864	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16902_A_34538865	NC_021162.1	Ca_Kabuli_Chr03	34538865	AA	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16903_A_34538891	NC_021162.1	Ca_Kabuli_Chr03	34538891	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16904_A_34540061	NC_021162.1	Ca_Kabuli_Chr03	34540061	GG	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16905_A_34540092	NC_021162.1	Ca_Kabuli_Chr03	34540092	AA	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16906_A_34540126	NC_021162.1	Ca_Kabuli_Chr03	34540126	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16907_A_34540214	NC_021162.1	Ca_Kabuli_Chr03	34540214	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16908_A_34540293	NC_021162.1	Ca_Kabuli_Chr03	34540293	TT	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16909_A_34540471	NC_021162.1	Ca_Kabuli_Chr03	34540471	AA	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16910_A_34540505	NC_021162.1	Ca_Kabuli_Chr03	34540505	GG	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16911_A_34540782	NC_021162.1	Ca_Kabuli_Chr03	34540782	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16912_A_34540983	NC_021162.1	Ca_Kabuli_Chr03	34540983	AA	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16913_A_34541197	NC_021162.1	Ca_Kabuli_Chr03	34541197	AA	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16914_A_34541715	NC_021162.1	Ca_Kabuli_Chr03	34541715	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16915_A_34543649	NC_021162.1	Ca_Kabuli_Chr03	34543649	GG	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16916_A_34543650	NC_021162.1	Ca_Kabuli_Chr03	34543650	TT	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16917_A_34543987	NC_021162.1	Ca_Kabuli_Chr03	34543987	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16918_A_34544086	NC_021162.1	Ca_Kabuli_Chr03	34544086	TT	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16919_A_34549532	NC_021162.1	Ca_Kabuli_Chr03	34549532	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16920_A_34550679	NC_021162.1	Ca_Kabuli_Chr03	34550679	TT	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16921_A_34550686	NC_021162.1	Ca_Kabuli_Chr03	34550686	AA	GG	GG	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16922_A_34550945	NC_021162.1	Ca_Kabuli_Chr03	34550945	TT	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16923_A_34550971	NC_021162.1	Ca_Kabuli_Chr03	34550971	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16924_A_34551027	NC_021162.1	Ca_Kabuli_Chr03	34551027	GG	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16925_A_34551054	NC_021162.1	Ca_Kabuli_Chr03	34551054	AA	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16926_A_34551580	NC_021162.1	Ca_Kabuli_Chr03	34551580	AA	CC	CC	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16927_A_34552502	NC_021162.1	Ca_Kabuli_Chr03	34552502	GG	AA	AA	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16928_A_34553361	NC_021162.1	Ca_Kabuli_Chr03	34553361	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16929_A_34555885	NC_021162.1	Ca_Kabuli_Chr03	34555885	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16930_A_34555927	NC_021162.1	Ca_Kabuli_Chr03	34555927	CC	TT	TT	INTRON	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16931_A_34558021	NC_021162.1	Ca_Kabuli_Chr03	34558021	GG	AA	AA	URR	101509812	protein SHOOT GRAVITROPISM 6-like
SNP_16932_A_34560204	NC_021162.1	Ca_Kabuli_Chr03	34560204	TT	CC	CC	INTERGENIC		
SNP_16933_A_34560216	NC_021162.1	Ca_Kabuli_Chr03	34560216	TT	CC	CC	INTERGENIC		
SNP_16934_A_34560365	NC_021162.1	Ca_Kabuli_Chr03	34560365	CC	TT	TT	INTERGENIC		
SNP_16935_A_34560379	NC_021162.1	Ca_Kabuli_Chr03	34560379	CC	TT	TT	INTERGENIC		
SNP_16936_A_34560387	NC_021162.1	Ca_Kabuli_Chr03	34560387	GG	AA	AA	INTERGENIC		
SNP_16937_A_34560638	NC_021162.1	Ca_Kabuli_Chr03	34560638	AA	GG	GG	INTERGENIC		
SNP_16938_A_34562531	NC_021162.1	Ca_Kabuli_Chr03	34562531	GG	AA	AA	SYNONYMOUS_CODING	101510567	UDP-glycosyltransferase 73C2-like
SNP_16939_A_34562927	NC_021162.1	Ca_Kabuli_Chr03	34562927	CC	GG	GG	INTRON	101510567	UDP-glycosyltransferase 73C2-like
SNP_16940_A_34565925	NC_021162.1	Ca_Kabuli_Chr03	34565925	AA	TT	TT	URR	101510567	UDP-glycosyltransferase 73C2-like
SNP_16942_A_34565993	NC_021162.1	Ca_Kabuli_Chr03	34565993	GG	AA	AA	URR	101510567	UDP-glycosyltransferase 73C2-like
SNP_16943_A_34566234	NC_021162.1	Ca_Kabuli_Chr03	34566234	AA	GG	GG	URR	101510567	UDP-glycosyltransferase 73C2-like
SNP_16944_A_34566483	NC_021162.1	Ca_Kabuli_Chr03	34566483	TT	AA	AA	INTERGENIC		
SNP_16946_A_34568595	NC_021162.1	Ca_Kabuli_Chr03	34568595	GG	AA	AA	DRR	101510891	UDP-glycosyltransferase 73C1
SNP_16947_A_34568825	NC_021162.1	Ca_Kabuli_Chr03	34568825	AA	GG	GG	DRR	101510891	UDP-glycosyltransferase 73C1
SNP_16948_A_34570976	NC_021162.1	Ca_Kabuli_Chr03	34570976	GG	AA	AA	URR	101510891	UDP-glycosyltransferase 73C1
SNP_16949_A_34570998	NC_021162.1	Ca_Kabuli_Chr03	34570998	AA	TT	TT	URR	101510891	UDP-glycosyltransferase 73C1
SNP_16950_A_34572372	NC_021162.1	Ca_Kabuli_Chr03	34572372	AA	CC	CC	URR	101510891	UDP-glycosyltransferase 73C1

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SNP_16951_A_34573973	NC_021162.1	Ca_Kabuli_Chr03	34573973	TT	CC	CC	INTERGENIC		
SNP_16952_A_34574010	NC_021162.1	Ca_Kabuli_Chr03	34574010	CC	TT	TT	INTERGENIC		
SNP_16953_A_34574069	NC_021162.1	Ca_Kabuli_Chr03	34574069	CC	TT	TT	INTERGENIC		
SNP_16954_A_34574157	NC_021162.1	Ca_Kabuli_Chr03	34574157	AA	GG	GG	INTERGENIC		
SNP_16957_A_34601661	NC_021162.1	Ca_Kabuli_Chr03	34601661	CC	AA	AA	NON_SYNONYMOUS_CODING	101512705	uncharacterized LOC101512705
SNP_16958_A_34601755	NC_021162.1	Ca_Kabuli_Chr03	34601755	TT	GG	GG	INTRON	101512705	uncharacterized LOC101512705
SNP_16959_A_34601798	NC_021162.1	Ca_Kabuli_Chr03	34601798	TT	GG	GG	INTRON	101512705	uncharacterized LOC101512705
SNP_16960_A_34604798	NC_021162.1	Ca_Kabuli_Chr03	34604798	AA	GG	GG	URR	101512705	uncharacterized LOC101512705
SNP_16961_A_34605060	NC_021162.1	Ca_Kabuli_Chr03	34605060	AA	GG	GG	URR	101512705	uncharacterized LOC101512705
SNP_16963_A_34607945	NC_021162.1	Ca_Kabuli_Chr03	34607945	GG	AA	AA	INTERGENIC		
SNP_16964_A_34608032	NC_021162.1	Ca_Kabuli_Chr03	34608032	TT	AA	AA	INTERGENIC		
SNP_16965_A_34608170	NC_021162.1	Ca_Kabuli_Chr03	34608170	AA	GG	GG	INTERGENIC		
SNP_16968_A_34621382	NC_021162.1	Ca_Kabuli_Chr03	34621382	TT	CC	CC	INTERGENIC		
SNP_16969_A_34623570	NC_021162.1	Ca_Kabuli_Chr03	34623570	TT	CC	CC	INTERGENIC		
SNP_16970_A_34623573	NC_021162.1	Ca_Kabuli_Chr03	34623573	AA	CC	CC	INTERGENIC		
SNP_16971_A_34623898	NC_021162.1	Ca_Kabuli_Chr03	34623898	TT	AA	AA	INTERGENIC		
SNP_16973_A_34626369	NC_021162.1	Ca_Kabuli_Chr03	34626369	AA	TT	TT	DRR	101513252	uncharacterized permease C29B12.14c-like
SNP_16975_A_34628335	NC_021162.1	Ca_Kabuli_Chr03	34628335	TT	CC	CC	INTRON	101513252	uncharacterized permease C29B12.14c-like
SNP_16976_A_34629523	NC_021162.1	Ca_Kabuli_Chr03	34629523	GG	AA	AA	URR	101513252	uncharacterized permease C29B12.14c-like
SNP_16977_A_34629831	NC_021162.1	Ca_Kabuli_Chr03	34629831	CC	GG	GG	URR	101513252	uncharacterized permease C29B12.14c-like
SNP_16978_A_34630025	NC_021162.1	Ca_Kabuli_Chr03	34630025	AA	GG	GG	URR	101513252	uncharacterized permease C29B12.14c-like
SNP_16979_A_34631414	NC_021162.1	Ca_Kabuli_Chr03	34631414	CC	TT	TT	URR	101513252	uncharacterized permease C29B12.14c-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_16980_A_34632826	NC_021162.1	Ca_Kabuli_Chr03	34632826	CC	TT	TT	INTERGENIC		
SNP_16981_A_34633052	NC_021162.1	Ca_Kabuli_Chr03	34633052	AA	GG	GG	INTERGENIC		
SNP_16982_A_34633661	NC_021162.1	Ca_Kabuli_Chr03	34633661	TT	GG	GG	DRR	101513580	uncharacterized protein At3g50808-like
SNP_16983_A_34634120	NC_021162.1	Ca_Kabuli_Chr03	34634120	AA	GG	GG	DRR	101513580	uncharacterized protein At3g50808-like
SNP_16984_A_34637890	NC_021162.1	Ca_Kabuli_Chr03	34637890	TT	AA	AA	URR	101513580	uncharacterized protein At3g50808-like
SNP_16985_A_34638726	NC_021162.1	Ca_Kabuli_Chr03	34638726	AA	CC	CC	DRR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16986_A_34638855	NC_021162.1	Ca_Kabuli_Chr03	34638855	TT	AA	AA	DRR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16987_A_34638885	NC_021162.1	Ca_Kabuli_Chr03	34638885	TT	CC	CC	DRR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16988_A_34638892	NC_021162.1	Ca_Kabuli_Chr03	34638892	CC	AA	AA	DRR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16989_A_34638897	NC_021162.1	Ca_Kabuli_Chr03	34638897	GG	AA	AA	DRR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16990_A_34640395	NC_021162.1	Ca_Kabuli_Chr03	34640395	CC	TT	TT	INTERGENIC		
SNP_16991_A_34642236	NC_021162.1	Ca_Kabuli_Chr03	34642236	GG	AA	AA	INTERGENIC		
SNP_16992_A_34642335	NC_021162.1	Ca_Kabuli_Chr03	34642335	CC	GG	GG	INTERGENIC		
SNP_16993_A_34644741	NC_021162.1	Ca_Kabuli_Chr03	34644741	AA	GG	GG	URR	101513895	vacuolar protein-sorting-associated protein 37 homolog 1
SNP_16994_A_34645361	NC_021162.1	Ca_Kabuli_Chr03	34645361	GG	AA	AA	INTERGENIC		
SNP_16995_A_34645368	NC_021162.1	Ca_Kabuli_Chr03	34645368	AA	CC	CC	INTERGENIC		
SNP_16996_A_34645390	NC_021162.1	Ca_Kabuli_Chr03	34645390	GG	CC	CC	INTERGENIC		
SNP_16997_A_34646085	NC_021162.1	Ca_Kabuli_Chr03	34646085	CC	AA	AA	DRR	101514762	protein PELOTA 1-like
SNP_16998_A_34648525	NC_021162.1	Ca_Kabuli_Chr03	34648525	TT	CC	CC	DRR	101515086	aspartic proteinase-like protein 2
SNP_16999_A_34648534	NC_021162.1	Ca_Kabuli_Chr03	34648534	CC	TT	TT	DRR	101515086	aspartic proteinase-like protein 2
SNP_17000_A_34648573	NC_021162.1	Ca_Kabuli_Chr03	34648573	TT	GG	GG	DRR	101515086	aspartic proteinase-like protein 2
SNP_17001_A_34651812	NC_021162.1	Ca_Kabuli_Chr03	34651812	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17002_A_34659150	NC_021162.1	Ca_Kabuli_Chr03	34659150	CC	TT	TT	INTERGENIC		
SNP_17003_A_34659151	NC_021162.1	Ca_Kabuli_Chr03	34659151	GG	TT	TT	INTERGENIC		
SNP_17005_A_34662239	NC_021162.1	Ca_Kabuli_Chr03	34662239	TT	CC	CC	INTRON	101515641	polyadenylate-binding protein 7
SNP_17007_A_34666599	NC_021162.1	Ca_Kabuli_Chr03	34666599	GG	TT	TT	INTERGENIC		
SNP_17008_A_34666626	NC_021162.1	Ca_Kabuli_Chr03	34666626	AA	CC	CC	INTERGENIC		
SNP_17009_A_34666756	NC_021162.1	Ca_Kabuli_Chr03	34666756	TT	CC	CC	INTERGENIC		
SNP_17010_A_34669756	NC_021162.1	Ca_Kabuli_Chr03	34669756	TT	CC	CC	INTRON	101488395	cactin
SNP_17011_A_34673392	NC_021162.1	Ca_Kabuli_Chr03	34673392	GG	CC	CC	URR	101488395	cactin
SNP_17012_A_34673417	NC_021162.1	Ca_Kabuli_Chr03	34673417	TT	CC	CC	URR	101488395	cactin
SNP_17013_A_34673430	NC_021162.1	Ca_Kabuli_Chr03	34673430	AA	GG	GG	URR	101488395	cactin
SNP_17014_A_34673755	NC_021162.1	Ca_Kabuli_Chr03	34673755	AA	GG	GG	URR	101488395	cactin
SNP_17015_A_34674842	NC_021162.1	Ca_Kabuli_Chr03	34674842	AA	GG	GG	URR	101488395	cactin
SNP_17016_A_34674843	NC_021162.1	Ca_Kabuli_Chr03	34674843	AA	GG	GG	URR	101488395	cactin
SNP_17018_A_34679537	NC_021162.1	Ca_Kabuli_Chr03	34679537	GG	TT	TT	INTERGENIC		
SNP_17019_A_34679657	NC_021162.1	Ca_Kabuli_Chr03	34679657	AA	GG	GG	INTERGENIC		
SNP_17020_A_34680537	NC_021162.1	Ca_Kabuli_Chr03	34680537	GG	AA	AA	INTERGENIC		
SNP_17022_A_34681331	NC_021162.1	Ca_Kabuli_Chr03	34681331	GG	AA	AA	URR	101488722	wall-associated receptor kinase-like 20
SNP_17024_A_34681704	NC_021162.1	Ca_Kabuli_Chr03	34681704	TT	AA	AA	DRR	101489923	probable carboxylesterase 18
SNP_17025_A_34682070	NC_021162.1	Ca_Kabuli_Chr03	34682070	AA	GG	GG	DRR	101489923	probable carboxylesterase 18
SNP_17026_A_34682335	NC_021162.1	Ca_Kabuli_Chr03	34682335	CC	GG	GG	DRR	101489923	probable carboxylesterase 18
SNP_17027_A_34684326	NC_021162.1	Ca_Kabuli_Chr03	34684326	TT	AA	AA	URR	101489923	probable carboxylesterase 18
SNP_17028_A_34685379	NC_021162.1	Ca_Kabuli_Chr03	34685379	GG	CC	CC	URR	101489923	probable carboxylesterase 18

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17029_A_34685431	NC_021162.1	Ca_Kabuli_Chr03	34685431	AA	CC	CC	URR	101489923	probable carboxylesterase 18
SNP_17030_A_34685433	NC_021162.1	Ca_Kabuli_Chr03	34685433	AA	GG	GG	URR	101489923	probable carboxylesterase 18
SNP_17032_A_34686398	NC_021162.1	Ca_Kabuli_Chr03	34686398	AA	TT	TT	INTERGENIC		
SNP_17033_A_34686416	NC_021162.1	Ca_Kabuli_Chr03	34686416	TT	CC	CC	INTERGENIC		
SNP_17034_A_34686616	NC_021162.1	Ca_Kabuli_Chr03	34686616	TT	GG	GG	INTERGENIC		
SNP_17035_A_34686821	NC_021162.1	Ca_Kabuli_Chr03	34686821	GG	AA	AA	INTERGENIC		
SNP_17036_A_34688029	NC_021162.1	Ca_Kabuli_Chr03	34688029	TT	CC	CC	DRR	101490256	uncharacterized LOC101490256
SNP_17037_A_34689147	NC_021162.1	Ca_Kabuli_Chr03	34689147	AA	GG	GG	INTERGENIC		
SNP_17038_A_34692510	NC_021162.1	Ca_Kabuli_Chr03	34692510	CC	AA	AA	DRR	101490788	E3 ubiquitin-protein ligase UPL7
SNP_17039_A_34692876	NC_021162.1	Ca_Kabuli_Chr03	34692876	TT	CC	CC	URR	101490256	uncharacterized LOC101490256
SNP_17040_A_34694025	NC_021162.1	Ca_Kabuli_Chr03	34694025	AA	GG	GG	URR	101490256	uncharacterized LOC101490256
SNP_17041_A_34699967	NC_021162.1	Ca_Kabuli_Chr03	34699967	AA	GG	GG	NON_SYNONYMOUS_CODING	101490788	E3 ubiquitin-protein ligase UPL7
SNP_17042_A_34701614	NC_021162.1	Ca_Kabuli_Chr03	34701614	CC	TT	TT	INTRON	101490788	E3 ubiquitin-protein ligase UPL7
SNP_17043_A_34714500	NC_021162.1	Ca_Kabuli_Chr03	34714500	AA	TT	TT	INTERGENIC		
SNP_17044_A_34716545	NC_021162.1	Ca_Kabuli_Chr03	34716545	TT	CC	CC	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17045_A_34716679	NC_021162.1	Ca_Kabuli_Chr03	34716679	AA	CC	CC	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17046_A_34716710	NC_021162.1	Ca_Kabuli_Chr03	34716710	TT	AA	AA	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17047_A_34716765	NC_021162.1	Ca_Kabuli_Chr03	34716765	TT	AA	AA	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17048_A_34716767	NC_021162.1	Ca_Kabuli_Chr03	34716767	TT	AA	AA	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17049_A_34716949	NC_021162.1	Ca_Kabuli_Chr03	34716949	CC	AA	AA	DRR	101491844	probable glycosyltransferase At5g03795
SNP_17051_A_34718392	NC_021162.1	Ca_Kabuli_Chr03	34718392	AA	GG	GG	INTRON	101491844	probable glycosyltransferase At5g03795
SNP_17052_A_34719174	NC_021162.1	Ca_Kabuli_Chr03	34719174	GG	TT	TT	INTRON	101491844	probable glycosyltransferase At5g03795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17053_A_34721612	NC_021162.1	Ca_Kabuli_Chr03	34721612	TT	CC	CC	DRR	101492177	embryonic protein DC-8
SNP_17055_A_34727293	NC_021162.1	Ca_Kabuli_Chr03	34727293	TT	GG	GG	DRR	101492516	uncharacterized LOC101492516
SNP_17057_A_34732064	NC_021162.1	Ca_Kabuli_Chr03	34732064	CC	AA	AA	URR	101492516	uncharacterized LOC101492516
SNP_17058_A_34732065	NC_021162.1	Ca_Kabuli_Chr03	34732065	AA	CC	CC	URR	101492516	uncharacterized LOC101492516
SNP_17059_A_34732149	NC_021162.1	Ca_Kabuli_Chr03	34732149	AA	CC	CC	URR	101492516	uncharacterized LOC101492516
SNP_17061_A_34733029	NC_021162.1	Ca_Kabuli_Chr03	34733029	CC	GG	GG	URR	101492516	uncharacterized LOC101492516
SNP_17062_A_34735254	NC_021162.1	Ca_Kabuli_Chr03	34735254	AA	GG	GG	DRR	101492846	ribosomal protein L24
SNP_17063_A_34735858	NC_021162.1	Ca_Kabuli_Chr03	34735858	TT	GG	GG	INTERGENIC		
SNP_17064_A_34735964	NC_021162.1	Ca_Kabuli_Chr03	34735964	TT	GG	GG	INTERGENIC		
SNP_17066_A_34739020	NC_021162.1	Ca_Kabuli_Chr03	34739020	TT	CC	CC	URR	101492846	ribosomal protein L24
SNP_17067_A_34739037	NC_021162.1	Ca_Kabuli_Chr03	34739037	CC	TT	TT	URR	101492846	ribosomal protein L24
SNP_17068_A_34739057	NC_021162.1	Ca_Kabuli_Chr03	34739057	AA	GG	GG	URR	101492846	ribosomal protein L24
SNP_17069_A_34739222	NC_021162.1	Ca_Kabuli_Chr03	34739222	GG	AA	AA	URR	101492846	ribosomal protein L24
SNP_17072_A_34739873	NC_021162.1	Ca_Kabuli_Chr03	34739873	GG	TT	TT	INTERGENIC		
SNP_17073_A_34743821	NC_021162.1	Ca_Kabuli_Chr03	34743821	AA	TT	TT	INTRON	101493178	putative homeobox-leucine zipper protein ATHB-51
SNP_17074_A_34745429	NC_021162.1	Ca_Kabuli_Chr03	34745429	AA	GG	GG	URR	101493178	putative homeobox-leucine zipper protein ATHB-51
SNP_17076_A_34748496	NC_021162.1	Ca_Kabuli_Chr03	34748496	TT	AA	AA	INTERGENIC		
SNP_17077_A_34748499	NC_021162.1	Ca_Kabuli_Chr03	34748499	TT	AA	AA	INTERGENIC		
SNP_17078_A_34748627	NC_021162.1	Ca_Kabuli_Chr03	34748627	TT	AA	AA	INTERGENIC		
SNP_17079_A_34749185	NC_021162.1	Ca_Kabuli_Chr03	34749185	CC	TT	TT	INTERGENIC		
SNP_17082_A_34751853	NC_021162.1	Ca_Kabuli_Chr03	34751853	CC	TT	TT	INTERGENIC		
SNP_17084_A_34754516	NC_021162.1	Ca_Kabuli_Chr03	34754516	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17085_A_34755052	NC_021162.1	Ca_Kabuli_Chr03	34755052	GG	AA	AA	INTERGENIC		
SNP_17086_A_34755070	NC_021162.1	Ca_Kabuli_Chr03	34755070	TT	AA	AA	INTERGENIC		
SNP_17088_A_34760443	NC_021162.1	Ca_Kabuli_Chr03	34760443	CC	TT	TT	URR	101493499	F-box protein PP2-A15
SNP_17089_A_34760469	NC_021162.1	Ca_Kabuli_Chr03	34760469	GG	TT	TT	URR	101493499	F-box protein PP2-A15
SNP_17090_A_34760477	NC_021162.1	Ca_Kabuli_Chr03	34760477	CC	TT	TT	URR	101493499	F-box protein PP2-A15
SNP_17091_A_34760483	NC_021162.1	Ca_Kabuli_Chr03	34760483	AA	GG	GG	URR	101493499	F-box protein PP2-A15
SNP_17092_A_34760499	NC_021162.1	Ca_Kabuli_Chr03	34760499	TT	CC	CC	URR	101493499	F-box protein PP2-A15
SNP_17093_A_34760731	NC_021162.1	Ca_Kabuli_Chr03	34760731	TT	AA	AA	URR	101493499	F-box protein PP2-A15
SNP_17094_A_34761459	NC_021162.1	Ca_Kabuli_Chr03	34761459	AA	GG	GG	URR	101493499	F-box protein PP2-A15
SNP_17095_A_34761486	NC_021162.1	Ca_Kabuli_Chr03	34761486	TT	CC	CC	URR	101493499	F-box protein PP2-A15
SNP_17096_A_34761516	NC_021162.1	Ca_Kabuli_Chr03	34761516	GG	AA	AA	URR	101493499	F-box protein PP2-A15
SNP_17098_A_34763273	NC_021162.1	Ca_Kabuli_Chr03	34763273	GG	TT	TT	INTERGENIC		
SNP_17099_A_34763292	NC_021162.1	Ca_Kabuli_Chr03	34763292	CC	TT	TT	INTERGENIC		
SNP_17100_A_34763482	NC_021162.1	Ca_Kabuli_Chr03	34763482	TT	CC	CC	INTERGENIC		
SNP_17101_A_34763497	NC_021162.1	Ca_Kabuli_Chr03	34763497	CC	TT	TT	INTERGENIC		
SNP_17102_A_34763525	NC_021162.1	Ca_Kabuli_Chr03	34763525	GG	AA	AA	INTERGENIC		
SNP_17103_A_34763566	NC_021162.1	Ca_Kabuli_Chr03	34763566	TT	CC	CC	INTERGENIC		
SNP_17104_A_34765256	NC_021162.1	Ca_Kabuli_Chr03	34765256	AA	TT	TT	DRR	101494258	uncharacterized protein DDB_G0290301-like
SNP_17105_A_34765822	NC_021162.1	Ca_Kabuli_Chr03	34765822	TT	CC	CC	INTERGENIC		
SNP_17106_A_34785452	NC_021162.1	Ca_Kabuli_Chr03	34785452	CC	AA	AA	INTERGENIC		
SNP_17107_A_34785530	NC_021162.1	Ca_Kabuli_Chr03	34785530	AA	TT	TT	INTERGENIC		
SNP_17108_A_34786127	NC_021162.1	Ca_Kabuli_Chr03	34786127	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17109_A_34786174	NC_021162.1	Ca_Kabuli_Chr03	34786174	TT	CC	CC	INTERGENIC			
SNP_17110_A_34786175	NC_021162.1	Ca_Kabuli_Chr03	34786175	GG	CC	CC	INTERGENIC			
SNP_17111_A_34786338	NC_021162.1	Ca_Kabuli_Chr03	34786338	TT	AA	AA	INTERGENIC			
SNP_17112_A_34786376	NC_021162.1	Ca_Kabuli_Chr03	34786376	GG	AA	AA	INTERGENIC			
SNP_17113_A_34786753	NC_021162.1	Ca_Kabuli_Chr03	34786753	GG	CC	CC	INTERGENIC			
SNP_17114_A_34786827	NC_021162.1	Ca_Kabuli_Chr03	34786827	AA	GG	GG	INTERGENIC			
SNP_17115_A_34786897	NC_021162.1	Ca_Kabuli_Chr03	34786897	TT	GG	GG	INTERGENIC			
SNP_17116_A_34788656	NC_021162.1	Ca_Kabuli_Chr03	34788656	TT	CC	CC	INTERGENIC			
SNP_17117_A_34789587	NC_021162.1	Ca_Kabuli_Chr03	34789587	TT	CC	CC	INTERGENIC			
SNP_17118_A_34789664	NC_021162.1	Ca_Kabuli_Chr03	34789664	GG	TT	TT	INTERGENIC			
SNP_17119_A_34789702	NC_021162.1	Ca_Kabuli_Chr03	34789702	CC	TT	TT	INTERGENIC			
SNP_17121_A_34797011	NC_021162.1	Ca_Kabuli_Chr03	34797011	AA	GG	GG	INTERGENIC			
SNP_17123_A_34797230	NC_021162.1	Ca_Kabuli_Chr03	34797230	TT	GG	GG	INTERGENIC			
SNP_17124_A_34797254	NC_021162.1	Ca_Kabuli_Chr03	34797254	TT	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17125_A_34797294	NC_021162.1	Ca_Kabuli_Chr03	34797294	TT	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17126_A_34797309	NC_021162.1	Ca_Kabuli_Chr03	34797309	TT	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17127_A_34797606	NC_021162.1	Ca_Kabuli_Chr03	34797606	TT	GG	GG	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17129_A_34797812	NC_021162.1	Ca_Kabuli_Chr03	34797812	CC	AA	AA	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17130_A_34797850	NC_021162.1	Ca_Kabuli_Chr03	34797850	TT	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17132_A_34798209	NC_021162.1	Ca_Kabuli_Chr03	34798209	AA	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17133_A_34798349	NC_021162.1	Ca_Kabuli_Chr03	34798349	TT	GG	GG	URR	101410559	transfer RNA valine (anticodon AAC)	
SNP_17134_A_34798350	NC_021162.1	Ca_Kabuli_Chr03	34798350	CC	AA	AA	URR	101410559	transfer RNA valine (anticodon AAC)	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17135_A_34801263	NC_021162.1	Ca_Kabuli_Chr03	34801263	CC	GG	GG	SYNONYMOUS_CODING	101495208	uncharacterized LOC101495208
SNP_17136_A_34803050	NC_021162.1	Ca_Kabuli_Chr03	34803050	CC	TT	TT	URR	101495208	uncharacterized LOC101495208
SNP_17137_A_34809061	NC_021162.1	Ca_Kabuli_Chr03	34809061	AA	TT	TT	INTERGENIC		
SNP_17138_A_34809576	NC_021162.1	Ca_Kabuli_Chr03	34809576	TT	GG	GG	INTERGENIC		
SNP_17139_A_34809732	NC_021162.1	Ca_Kabuli_Chr03	34809732	AA	TT	TT	INTERGENIC		
SNP_17140_A_34809733	NC_021162.1	Ca_Kabuli_Chr03	34809733	AA	TT	TT	INTERGENIC		
SNP_17141_A_34809736	NC_021162.1	Ca_Kabuli_Chr03	34809736	GG	AA	AA	INTERGENIC		
SNP_17142_A_34809747	NC_021162.1	Ca_Kabuli_Chr03	34809747	CC	TT	TT	INTERGENIC		
SNP_17143_A_34809892	NC_021162.1	Ca_Kabuli_Chr03	34809892	CC	AA	AA	INTERGENIC		
SNP_17144_A_34809897	NC_021162.1	Ca_Kabuli_Chr03	34809897	TT	AA	AA	INTERGENIC		
SNP_17145_A_34809902	NC_021162.1	Ca_Kabuli_Chr03	34809902	AA	GG	GG	INTERGENIC		
SNP_17146_A_34815172	NC_021162.1	Ca_Kabuli_Chr03	34815172	GG	TT	TT	URR	101496080	glucomannan 4-beta-mannosyltransferase 9-like
SNP_17148_A_34819168	NC_021162.1	Ca_Kabuli_Chr03	34819168	TT	CC	CC	INTRON	101496080	glucomannan 4-beta-mannosyltransferase 9-like
SNP_17149_A_34819174	NC_021162.1	Ca_Kabuli_Chr03	34819174	AA	CC	CC	INTRON	101496080	glucomannan 4-beta-mannosyltransferase 9-like
SNP_17150_A_34827383	NC_021162.1	Ca_Kabuli_Chr03	34827383	GG	AA	AA	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17151_A_34827430	NC_021162.1	Ca_Kabuli_Chr03	34827430	CC	TT	TT	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17152_A_34827653	NC_021162.1	Ca_Kabuli_Chr03	34827653	AA	GG	GG	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17153_A_34827656	NC_021162.1	Ca_Kabuli_Chr03	34827656	CC	TT	TT	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17154_A_34827660	NC_021162.1	Ca_Kabuli_Chr03	34827660	CC	TT	TT	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17155_A_34827702	NC_021162.1	Ca_Kabuli_Chr03	34827702	TT	CC	CC	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17156_A_34827964	NC_021162.1	Ca_Kabuli_Chr03	34827964	CC	AA	AA	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial
SNP_17157_A_34827989	NC_021162.1	Ca_Kabuli_Chr03	34827989	TT	CC	CC	URR	101496740	pentatricopeptide repeat-containing protein At5g12100, mitochondrial

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SNP_17158_A_34834777	NC_021162.1	Ca_Kabuli_Chr03	34834777	GG	AA	AA	INTERGENIC		
SNP_17159_A_34834985	NC_021162.1	Ca_Kabuli_Chr03	34834985	AA	GG	GG	INTERGENIC		
SNP_17161_A_34836978	NC_021162.1	Ca_Kabuli_Chr03	34836978	CC	GG	GG	INTRON	101497047	enolase-like
SNP_17162_A_34839817	NC_021162.1	Ca_Kabuli_Chr03	34839817	TT	CC	CC	INTRON	101497047	enolase-like
SNP_17164_A_34845268	NC_021162.1	Ca_Kabuli_Chr03	34845268	CC	TT	TT	INTERGENIC		
SNP_17166_A_34847320	NC_021162.1	Ca_Kabuli_Chr03	34847320	TT	GG	GG	INTERGENIC		
SNP_17167_A_34847701	NC_021162.1	Ca_Kabuli_Chr03	34847701	GG	AA	AA	INTERGENIC		
SNP_17168_A_34847717	NC_021162.1	Ca_Kabuli_Chr03	34847717	TT	GG	GG	INTERGENIC		
SNP_17169_A_34849532	NC_021162.1	Ca_Kabuli_Chr03	34849532	AA	TT	TT	INTERGENIC		
SNP_17170_A_34849558	NC_021162.1	Ca_Kabuli_Chr03	34849558	CC	TT	TT	INTERGENIC		
SNP_17171_A_34850925	NC_021162.1	Ca_Kabuli_Chr03	34850925	CC	AA	AA	DRR	101497715	histone deacetylase HDT1
SNP_17172_A_34851404	NC_021162.1	Ca_Kabuli_Chr03	34851404	CC	AA	AA	URR	101497382	splicing factor U2af small subunit B-like
SNP_17173_A_34851435	NC_021162.1	Ca_Kabuli_Chr03	34851435	CC	GG	GG	URR	101497382	splicing factor U2af small subunit B-like
SNP_17174_A_34851809	NC_021162.1	Ca_Kabuli_Chr03	34851809	TT	CC	CC	INTERGENIC		
SNP_17175_A_34851843	NC_021162.1	Ca_Kabuli_Chr03	34851843	GG	AA	AA	INTERGENIC		
SNP_17177_A_34852030	NC_021162.1	Ca_Kabuli_Chr03	34852030	GG	AA	AA	INTERGENIC		
SNP_17179_A_34852070	NC_021162.1	Ca_Kabuli_Chr03	34852070	TT	GG	GG	INTERGENIC		
SNP_17180_A_34852450	NC_021162.1	Ca_Kabuli_Chr03	34852450	GG	TT	TT	INTERGENIC		
SNP_17181_A_34857152	NC_021162.1	Ca_Kabuli_Chr03	34857152	AA	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17182_A_34857170	NC_021162.1	Ca_Kabuli_Chr03	34857170	CC	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17183_A_34857171	NC_021162.1	Ca_Kabuli_Chr03	34857171	AA	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17184_A_34857452	NC_021162.1	Ca_Kabuli_Chr03	34857452	TT	CC	CC	URR	101497715	histone deacetylase HDT1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17185_A_34857582	NC_021162.1	Ca_Kabuli_Chr03	34857582	AA	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17186_A_34857674	NC_021162.1	Ca_Kabuli_Chr03	34857674	TT	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17187_A_34857857	NC_021162.1	Ca_Kabuli_Chr03	34857857	AA	GG	GG	URR	101497715	histone deacetylase HDT1
SNP_17188_A_34858324	NC_021162.1	Ca_Kabuli_Chr03	34858324	GG	CC	CC	URR	101497715	histone deacetylase HDT1
SNP_17189_A_34859336	NC_021162.1	Ca_Kabuli_Chr03	34859336	GG	AA	AA	DRR	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17190_A_34859657	NC_021162.1	Ca_Kabuli_Chr03	34859657	CC	TT	TT	DRR	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17191_A_34861525	NC_021162.1	Ca_Kabuli_Chr03	34861525	TT	GG	GG	INTRON	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17193_A_34866642	NC_021162.1	Ca_Kabuli_Chr03	34866642	AA	GG	GG	URR	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17194_A_34867042	NC_021162.1	Ca_Kabuli_Chr03	34867042	CC	TT	TT	URR	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17195_A_34867119	NC_021162.1	Ca_Kabuli_Chr03	34867119	AA	GG	GG	URR	101498250	polyadenylation and cleavage factor homolog 4-like
SNP_17196_A_34869880	NC_021162.1	Ca_Kabuli_Chr03	34869880	AA	CC	CC	INTERGENIC		
SNP_17197_A_34869917	NC_021162.1	Ca_Kabuli_Chr03	34869917	TT	GG	GG	INTERGENIC		
SNP_17198_A_34871941	NC_021162.1	Ca_Kabuli_Chr03	34871941	AA	GG	GG	INTERGENIC		
SNP_17199_A_34871998	NC_021162.1	Ca_Kabuli_Chr03	34871998	CC	TT	TT	INTERGENIC		
SNP_17200_A_34871999	NC_021162.1	Ca_Kabuli_Chr03	34871999	CC	GG	GG	INTERGENIC		
SNP_17201_A_34872001	NC_021162.1	Ca_Kabuli_Chr03	34872001	TT	CC	CC	INTERGENIC		
SNP_17202_A_34872225	NC_021162.1	Ca_Kabuli_Chr03	34872225	GG	TT	TT	INTERGENIC		
SNP_17204_A_34873488	NC_021162.1	Ca_Kabuli_Chr03	34873488	CC	TT	TT	INTERGENIC		
SNP_17205_A_34873489	NC_021162.1	Ca_Kabuli_Chr03	34873489	AA	TT	TT	INTERGENIC		
SNP_17207_A_34874518	NC_021162.1	Ca_Kabuli_Chr03	34874518	AA	GG	GG	DRR	101498584	PAN domain-containing protein At5g03700
SNP_17208_A_34879673	NC_021162.1	Ca_Kabuli_Chr03	34879673	TT	CC	CC	INTERGENIC		
SNP_17209_A_34879854	NC_021162.1	Ca_Kabuli_Chr03	34879854	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17210_A_34879895	NC_021162.1	Ca_Kabuli_Chr03	34879895	AA	GG	GG	INTERGENIC		
SNP_17211_A_34881689	NC_021162.1	Ca_Kabuli_Chr03	34881689	CC	AA	AA	DRR	101498919	uncharacterized LOC101498919
SNP_17212_A_34883008	NC_021162.1	Ca_Kabuli_Chr03	34883008	GG	TT	TT	SYNONYMOUS_CODING	101498919	uncharacterized LOC101498919
SNP_17213_A_34885139	NC_021162.1	Ca_Kabuli_Chr03	34885139	TT	CC	CC	URR	101498919	uncharacterized LOC101498919
SNP_17214_A_34886876	NC_021162.1	Ca_Kabuli_Chr03	34886876	GG	TT	TT	DRR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17215_A_34886898	NC_021162.1	Ca_Kabuli_Chr03	34886898	AA	CC	CC	DRR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17216_A_34886950	NC_021162.1	Ca_Kabuli_Chr03	34886950	AA	GG	GG	DRR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17217_A_34887362	NC_021162.1	Ca_Kabuli_Chr03	34887362	AA	TT	TT	INTERGENIC		
SNP_17219_A_34887552	NC_021162.1	Ca_Kabuli_Chr03	34887552	GG	AA	AA	INTERGENIC		
SNP_17220_A_34887561	NC_021162.1	Ca_Kabuli_Chr03	34887561	AA	GG	GG	INTERGENIC		
SNP_17221_A_34887857	NC_021162.1	Ca_Kabuli_Chr03	34887857	TT	AA	AA	INTERGENIC		
SNP_17222_A_34890235	NC_021162.1	Ca_Kabuli_Chr03	34890235	CC	AA	AA	URR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17223_A_34890243	NC_021162.1	Ca_Kabuli_Chr03	34890243	TT	CC	CC	URR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17224_A_34890490	NC_021162.1	Ca_Kabuli_Chr03	34890490	GG	AA	AA	URR	101499242	fructose-bisphosphate aldolase, cytoplasmic isozyme-like
SNP_17225_A_34896806	NC_021162.1	Ca_Kabuli_Chr03	34896806	TT	CC	CC	URR	101499561	trihelix transcription factor PTL
SNP_17226_A_34896819	NC_021162.1	Ca_Kabuli_Chr03	34896819	AA	TT	TT	URR	101499561	trihelix transcription factor PTL
SNP_17229_A_34909593	NC_021162.1	Ca_Kabuli_Chr03	34909593	GG	AA	AA	INTERGENIC		
SNP_17230_A_34909594	NC_021162.1	Ca_Kabuli_Chr03	34909594	AA	GG	GG	INTERGENIC		
SNP_17231_A_34910912	NC_021162.1	Ca_Kabuli_Chr03	34910912	TT	AA	AA	DRR	101512292	ethylene-responsive transcription factor ERF024
SNP_17233_A_34912106	NC_021162.1	Ca_Kabuli_Chr03	34912106	AA	TT	TT	URR	101512292	ethylene-responsive transcription factor ERF024
SNP_17234_A_34912108	NC_021162.1	Ca_Kabuli_Chr03	34912108	TT	GG	GG	URR	101512292	ethylene-responsive transcription factor ERF024
SNP_17235_A_34912377	NC_021162.1	Ca_Kabuli_Chr03	34912377	AA	GG	GG	URR	101512292	ethylene-responsive transcription factor ERF024

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17236_A_34913508	NC_021162.1	Ca_Kabuli_Chr03	34913508	AA	GG	GG	URR	101512292	ethylene-responsive transcription factor ERF024
SNP_17240_A_34914648	NC_021162.1	Ca_Kabuli_Chr03	34914648	GG	AA	AA	INTERGENIC		
SNP_17241_A_34914900	NC_021162.1	Ca_Kabuli_Chr03	34914900	CC	TT	TT	INTERGENIC		
SNP_17242_A_34914905	NC_021162.1	Ca_Kabuli_Chr03	34914905	GG	TT	TT	INTERGENIC		
SNP_17243_A_34914951	NC_021162.1	Ca_Kabuli_Chr03	34914951	TT	CC	CC	INTERGENIC		
SNP_17244_A_34914957	NC_021162.1	Ca_Kabuli_Chr03	34914957	TT	CC	CC	INTERGENIC		
SNP_17245_A_34915314	NC_021162.1	Ca_Kabuli_Chr03	34915314	TT	AA	AA	INTERGENIC		
SNP_17246_A_34915335	NC_021162.1	Ca_Kabuli_Chr03	34915335	AA	TT	TT	INTERGENIC		
SNP_17247_A_34915585	NC_021162.1	Ca_Kabuli_Chr03	34915585	CC	TT	TT	INTERGENIC		
SNP_17249_A_34916126	NC_021162.1	Ca_Kabuli_Chr03	34916126	CC	TT	TT	INTERGENIC		
SNP_17250_A_34921846	NC_021162.1	Ca_Kabuli_Chr03	34921846	TT	CC	CC	INTRON	101499859	uncharacterized LOC101499859
SNP_17251_A_34921926	NC_021162.1	Ca_Kabuli_Chr03	34921926	GG	TT	TT	INTRON	101499859	uncharacterized LOC101499859
SNP_17252_A_34923642	NC_021162.1	Ca_Kabuli_Chr03	34923642	GG	AA	AA	URR	101499859	uncharacterized LOC101499859
SNP_17253_A_34923688	NC_021162.1	Ca_Kabuli_Chr03	34923688	AA	GG	GG	URR	101499859	uncharacterized LOC101499859
SNP_17254_A_34924000	NC_021162.1	Ca_Kabuli_Chr03	34924000	CC	TT	TT	URR	101499859	uncharacterized LOC101499859
SNP_17255_A_34927339	NC_021162.1	Ca_Kabuli_Chr03	34927339	GG	TT	TT	INTERGENIC		
SNP_17256_A_34927527	NC_021162.1	Ca_Kabuli_Chr03	34927527	CC	TT	TT	INTERGENIC		
SNP_17257_A_34927895	NC_021162.1	Ca_Kabuli_Chr03	34927895	AA	CC	CC	INTERGENIC		
SNP_17258_A_34927945	NC_021162.1	Ca_Kabuli_Chr03	34927945	TT	AA	AA	INTERGENIC		
SNP_17259_A_34928847	NC_021162.1	Ca_Kabuli_Chr03	34928847	TT	GG	GG	INTERGENIC		
SNP_17260_A_34929855	NC_021162.1	Ca_Kabuli_Chr03	34929855	AA	TT	TT	INTERGENIC		
SNP_17261_A_34929858	NC_021162.1	Ca_Kabuli_Chr03	34929858	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17263_A_34932973	NC_021162.1	Ca_Kabuli_Chr03	34932973	AA	GG	GG	INTERGENIC			
SNP_17264_A_34933665	NC_021162.1	Ca_Kabuli_Chr03	34933665	GG	TT	TT	INTERGENIC			
SNP_17265_A_34934610	NC_021162.1	Ca_Kabuli_Chr03	34934610	TT	CC	CC	INTERGENIC			
SNP_17266_A_34934643	NC_021162.1	Ca_Kabuli_Chr03	34934643	AA	GG	GG	INTERGENIC			
SNP_17267_A_34941988	NC_021162.1	Ca_Kabuli_Chr03	34941988	TT	CC	CC	INTERGENIC			
SNP_17268_A_34942218	NC_021162.1	Ca_Kabuli_Chr03	34942218	GG	AA	AA	INTERGENIC			
SNP_17269_A_34942219	NC_021162.1	Ca_Kabuli_Chr03	34942219	AA	TT	TT	INTERGENIC			
SNP_17270_A_34942246	NC_021162.1	Ca_Kabuli_Chr03	34942246	TT	CC	CC	INTERGENIC			
SNP_17271_A_34943101	NC_021162.1	Ca_Kabuli_Chr03	34943101	TT	AA	AA	INTERGENIC			
SNP_17273_A_34943701	NC_021162.1	Ca_Kabuli_Chr03	34943701	CC	TT	TT	INTERGENIC			
SNP_17274_A_34943709	NC_021162.1	Ca_Kabuli_Chr03	34943709	GG	AA	AA	INTERGENIC			
SNP_17275_A_34943721	NC_021162.1	Ca_Kabuli_Chr03	34943721	CC	TT	TT	INTERGENIC			
SNP_17277_A_34943906	NC_021162.1	Ca_Kabuli_Chr03	34943906	CC	TT	TT	INTERGENIC			
SNP_17278_A_34947648	NC_021162.1	Ca_Kabuli_Chr03	34947648	TT	AA	AA	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17279_A_34947649	NC_021162.1	Ca_Kabuli_Chr03	34947649	TT	AA	AA	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17280_A_34947672	NC_021162.1	Ca_Kabuli_Chr03	34947672	AA	TT	TT	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17281_A_34948634	NC_021162.1	Ca_Kabuli_Chr03	34948634	TT	AA	AA	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17282_A_34948663	NC_021162.1	Ca_Kabuli_Chr03	34948663	TT	CC	CC	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17283_A_34949225	NC_021162.1	Ca_Kabuli_Chr03	34949225	TT	CC	CC	URR		101500193	ankyrin repeat domain-containing protein 30A-like
SNP_17284_A_34951040	NC_021162.1	Ca_Kabuli_Chr03	34951040	CC	TT	TT	INTERGENIC			
SNP_17285_A_34953651	NC_021162.1	Ca_Kabuli_Chr03	34953651	CC	TT	TT	INTERGENIC			
SNP_17286_A_34953873	NC_021162.1	Ca_Kabuli_Chr03	34953873	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17289_A_34954978	NC_021162.1	Ca_Kabuli_Chr03	34954978	AA	GG	GG	INTERGENIC			
SNP_17291_A_34962596	NC_021162.1	Ca_Kabuli_Chr03	34962596	AA	GG	GG	INTERGENIC			
SNP_17292_A_34962619	NC_021162.1	Ca_Kabuli_Chr03	34962619	TT	CC	CC	INTERGENIC			
SNP_17293_A_34963096	NC_021162.1	Ca_Kabuli_Chr03	34963096	TT	AA	AA	INTERGENIC			
SNP_17296_A_34964297	NC_021162.1	Ca_Kabuli_Chr03	34964297	GG	AA	AA	INTERGENIC			
SNP_17297_A_34965985	NC_021162.1	Ca_Kabuli_Chr03	34965985	AA	GG	GG	INTERGENIC			
SNP_17298_A_34966908	NC_021162.1	Ca_Kabuli_Chr03	34966908	CC	AA	AA	INTERGENIC			
SNP_17299_A_34967085	NC_021162.1	Ca_Kabuli_Chr03	34967085	GG	CC	CC	INTERGENIC			
SNP_17300_A_34967587	NC_021162.1	Ca_Kabuli_Chr03	34967587	GG	AA	AA	INTERGENIC			
SNP_17301_A_34967633	NC_021162.1	Ca_Kabuli_Chr03	34967633	AA	GG	GG	INTERGENIC			
SNP_17302_A_34967646	NC_021162.1	Ca_Kabuli_Chr03	34967646	CC	TT	TT	INTERGENIC			
SNP_17304_A_34967907	NC_021162.1	Ca_Kabuli_Chr03	34967907	GG	TT	TT	INTERGENIC			
SNP_17306_A_34971464	NC_021162.1	Ca_Kabuli_Chr03	34971464	TT	CC	CC	INTERGENIC			
SNP_17307_A_34972452	NC_021162.1	Ca_Kabuli_Chr03	34972452	TT	AA	AA	INTERGENIC			
SNP_17308_A_34972460	NC_021162.1	Ca_Kabuli_Chr03	34972460	CC	AA	AA	INTERGENIC			
SNP_17310_A_34976181	NC_021162.1	Ca_Kabuli_Chr03	34976181	AA	TT	TT	INTERGENIC			
SNP_17311_A_34982751	NC_021162.1	Ca_Kabuli_Chr03	34982751	GG	AA	AA	INTRON		101501037	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_17312_A_34987219	NC_021162.1	Ca_Kabuli_Chr03	34987219	TT	AA	AA	INTRON		101501037	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_17313_A_34995502	NC_021162.1	Ca_Kabuli_Chr03	34995502	AA	GG	GG	INTRON		101501037	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_17314_A_34995688	NC_021162.1	Ca_Kabuli_Chr03	34995688	TT	CC	CC	INTRON		101501037	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_17315_A_35009340	NC_021162.1	Ca_Kabuli_Chr03	35009340	TT	CC	CC	INTRON		101512624	ABC transporter G family member 39-like
SNP_17316_A_35015397	NC_021162.1	Ca_Kabuli_Chr03	35015397	TT	CC	CC	INTRON		101512624	ABC transporter G family member 39-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17318_A_35020789	NC_021162.1	Ca_Kabuli_Chr03	35020789	CC	TT	TT	DRR	101501889	ABC transporter G family member 39-like
SNP_17319_A_35020829	NC_021162.1	Ca_Kabuli_Chr03	35020829	TT	CC	CC	DRR	101501889	ABC transporter G family member 39-like
SNP_17320_A_35026571	NC_021162.1	Ca_Kabuli_Chr03	35026571	TT	AA	AA	SYNONYMOUS_CODING	101501889	ABC transporter G family member 39-like
SNP_17322_A_35030717	NC_021162.1	Ca_Kabuli_Chr03	35030717	AA	GG	GG	URR	101501889	ABC transporter G family member 39-like
SNP_17323_A_35030799	NC_021162.1	Ca_Kabuli_Chr03	35030799	AA	TT	TT	URR	101501889	ABC transporter G family member 39-like
SNP_17324_A_35030901	NC_021162.1	Ca_Kabuli_Chr03	35030901	TT	CC	CC	URR	101501889	ABC transporter G family member 39-like
SNP_17326_A_35032099	NC_021162.1	Ca_Kabuli_Chr03	35032099	CC	TT	TT	URR	101501889	ABC transporter G family member 39-like
SNP_17328_A_35033251	NC_021162.1	Ca_Kabuli_Chr03	35033251	CC	TT	TT	INTERGENIC		
SNP_17329_A_35033407	NC_021162.1	Ca_Kabuli_Chr03	35033407	CC	TT	TT	INTERGENIC		
SNP_17330_A_35034566	NC_021162.1	Ca_Kabuli_Chr03	35034566	CC	TT	TT	INTERGENIC		
SNP_17332_A_35038161	NC_021162.1	Ca_Kabuli_Chr03	35038161	TT	CC	CC	INTRON	101501578	BTB/POZ domain-containing protein FBL11
SNP_17333_A_35039219	NC_021162.1	Ca_Kabuli_Chr03	35039219	AA	GG	GG	SYNONYMOUS_CODING	101501578	BTB/POZ domain-containing protein FBL11
SNP_17334_A_35039252	NC_021162.1	Ca_Kabuli_Chr03	35039252	TT	CC	CC	NON_SYNONYMOUS_CODING	101501578	BTB/POZ domain-containing protein FBL11
SNP_17337_A_35046701	NC_021162.1	Ca_Kabuli_Chr03	35046701	CC	TT	TT	URR	101501578	BTB/POZ domain-containing protein FBL11
SNP_17338_A_35046888	NC_021162.1	Ca_Kabuli_Chr03	35046888	CC	TT	TT	URR	101501578	BTB/POZ domain-containing protein FBL11
SNP_17339_A_35049103	NC_021162.1	Ca_Kabuli_Chr03	35049103	GG	AA	AA	INTERGENIC		
SNP_17340_A_35049374	NC_021162.1	Ca_Kabuli_Chr03	35049374	AA	TT	TT	INTERGENIC		
SNP_17341_A_35049402	NC_021162.1	Ca_Kabuli_Chr03	35049402	CC	TT	TT	INTERGENIC		
SNP_17342_A_35049835	NC_021162.1	Ca_Kabuli_Chr03	35049835	TT	GG	GG	INTERGENIC		
SNP_17343_A_35054232	NC_021162.1	Ca_Kabuli_Chr03	35054232	CC	TT	TT	INTRON	101512931	ABC transporter G family member 39-like
SNP_17344_A_35054340	NC_021162.1	Ca_Kabuli_Chr03	35054340	CC	GG	GG	INTRON	101512931	ABC transporter G family member 39-like
SNP_17345_A_35054370	NC_021162.1	Ca_Kabuli_Chr03	35054370	TT	CC	CC	INTRON	101512931	ABC transporter G family member 39-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17346_A_35054583	NC_021162.1	Ca_Kabuli_Chr03	35054583	CC	TT	TT	INTRON	101512931	ABC transporter G family member 39-like
SNP_17347_A_35054584	NC_021162.1	Ca_Kabuli_Chr03	35054584	TT	CC	CC	INTRON	101512931	ABC transporter G family member 39-like
SNP_17348_A_35055580	NC_021162.1	Ca_Kabuli_Chr03	35055580	AA	GG	GG	INTRON	101512931	ABC transporter G family member 39-like
SNP_17349_A_35055587	NC_021162.1	Ca_Kabuli_Chr03	35055587	GG	CC	CC	INTRON	101512931	ABC transporter G family member 39-like
SNP_17350_A_35055855	NC_021162.1	Ca_Kabuli_Chr03	35055855	AA	GG	GG	NON_SYNONYMOUS_CODING	101512931	ABC transporter G family member 39-like
SNP_17352_A_35069930	NC_021162.1	Ca_Kabuli_Chr03	35069930	CC	TT	TT	DRR	101502217	serine/threonine-protein kinase KIPK-like
SNP_17353_A_35069948	NC_021162.1	Ca_Kabuli_Chr03	35069948	CC	TT	TT	DRR	101502217	serine/threonine-protein kinase KIPK-like
SNP_17354_A_35070050	NC_021162.1	Ca_Kabuli_Chr03	35070050	TT	CC	CC	DRR	101502217	serine/threonine-protein kinase KIPK-like
SNP_17355_A_35070521	NC_021162.1	Ca_Kabuli_Chr03	35070521	GG	CC	CC	DRR	101502217	serine/threonine-protein kinase KIPK-like
SNP_17357_A_35080442	NC_021162.1	Ca_Kabuli_Chr03	35080442	TT	GG	GG	INTERGENIC		
SNP_17358_A_35080488	NC_021162.1	Ca_Kabuli_Chr03	35080488	GG	AA	AA	INTERGENIC		
SNP_17359_A_35086663	NC_021162.1	Ca_Kabuli_Chr03	35086663	GG	AA	AA	INTERGENIC		
SNP_17361_A_35086725	NC_021162.1	Ca_Kabuli_Chr03	35086725	CC	GG	GG	INTERGENIC		
SNP_17363_A_35087082	NC_021162.1	Ca_Kabuli_Chr03	35087082	GG	AA	AA	INTERGENIC		
SNP_17364_A_35087800	NC_021162.1	Ca_Kabuli_Chr03	35087800	TT	CC	CC	URR	101502848	subtilisin-like protease SBT4.14
SNP_17365_A_35087807	NC_021162.1	Ca_Kabuli_Chr03	35087807	TT	AA	AA	URR	101502848	subtilisin-like protease SBT4.14
SNP_17366_A_35088941	NC_021162.1	Ca_Kabuli_Chr03	35088941	CC	TT	TT	URR	101502848	subtilisin-like protease SBT4.14
SNP_17367_A_35090365	NC_021162.1	Ca_Kabuli_Chr03	35090365	AA	GG	GG	INTERGENIC		
SNP_17368_A_35090875	NC_021162.1	Ca_Kabuli_Chr03	35090875	TT	CC	CC	INTERGENIC		
SNP_17369_A_35093851	NC_021162.1	Ca_Kabuli_Chr03	35093851	AA	GG	GG	URR	101513587	GDSL esterase/lipase At5g03610-like
SNP_17370_A_35094678	NC_021162.1	Ca_Kabuli_Chr03	35094678	TT	CC	CC	URR	101513587	GDSL esterase/lipase At5g03610-like
SNP_17371_A_35095221	NC_021162.1	Ca_Kabuli_Chr03	35095221	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17372_A_35099621	NC_021162.1	Ca_Kabuli_Chr03	35099621	CC	GG	GG	INTERGENIC		
SNP_17373_A_35100574	NC_021162.1	Ca_Kabuli_Chr03	35100574	TT	AA	AA	URR	101503167	uridine nucleosidase 1
SNP_17375_A_35100921	NC_021162.1	Ca_Kabuli_Chr03	35100921	GG	AA	AA	URR	101503167	uridine nucleosidase 1
SNP_17377_A_35101675	NC_021162.1	Ca_Kabuli_Chr03	35101675	AA	GG	GG	URR	101503167	uridine nucleosidase 1
SNP_17378_A_35101748	NC_021162.1	Ca_Kabuli_Chr03	35101748	AA	GG	GG	URR	101503167	uridine nucleosidase 1
SNP_17379_A_35101760	NC_021162.1	Ca_Kabuli_Chr03	35101760	GG	AA	AA	URR	101503167	uridine nucleosidase 1
SNP_17380_A_35101803	NC_021162.1	Ca_Kabuli_Chr03	35101803	CC	TT	TT	URR	101503167	uridine nucleosidase 1
SNP_17381_A_35101849	NC_021162.1	Ca_Kabuli_Chr03	35101849	AA	GG	GG	URR	101503167	uridine nucleosidase 1
SNP_17382_A_35101854	NC_021162.1	Ca_Kabuli_Chr03	35101854	GG	AA	AA	URR	101503167	uridine nucleosidase 1
SNP_17383_A_35101887	NC_021162.1	Ca_Kabuli_Chr03	35101887	AA	GG	GG	URR	101503167	uridine nucleosidase 1
SNP_17384_A_35101897	NC_021162.1	Ca_Kabuli_Chr03	35101897	CC	TT	TT	URR	101503167	uridine nucleosidase 1
SNP_17385_A_35101898	NC_021162.1	Ca_Kabuli_Chr03	35101898	AA	GG	GG	URR	101503167	uridine nucleosidase 1
SNP_17386_A_35102008	NC_021162.1	Ca_Kabuli_Chr03	35102008	AA	GG	GG	INTERGENIC		
SNP_17387_A_35102017	NC_021162.1	Ca_Kabuli_Chr03	35102017	GG	CC	CC	INTERGENIC		
SNP_17388_A_35102037	NC_021162.1	Ca_Kabuli_Chr03	35102037	TT	CC	CC	INTERGENIC		
SNP_17389_A_35102375	NC_021162.1	Ca_Kabuli_Chr03	35102375	TT	CC	CC	INTERGENIC		
SNP_17390_A_35104006	NC_021162.1	Ca_Kabuli_Chr03	35104006	TT	CC	CC	DRR	101503822	solute carrier family 35 member F2-like
SNP_17392_A_35107035	NC_021162.1	Ca_Kabuli_Chr03	35107035	AA	TT	TT	INTRON	101503822	solute carrier family 35 member F2-like
SNP_17393_A_35109274	NC_021162.1	Ca_Kabuli_Chr03	35109274	GG	AA	AA	INTRON	101503822	solute carrier family 35 member F2-like
SNP_17394_A_35113789	NC_021162.1	Ca_Kabuli_Chr03	35113789	TT	AA	AA	URR	101503486	zinc finger A20 and AN1 domain-containing stress-associated protein 4-like
SNP_17396_A_35117321	NC_021162.1	Ca_Kabuli_Chr03	35117321	CC	TT	TT	INTERGENIC		
SNP_17397_A_35117615	NC_021162.1	Ca_Kabuli_Chr03	35117615	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17398_A_35117683	NC_021162.1	Ca_Kabuli_Chr03	35117683	AA	GG	GG	INTERGENIC		
SNP_17400_A_35119222	NC_021162.1	Ca_Kabuli_Chr03	35119222	CC	TT	TT	INTERGENIC		
SNP_17401_A_35119516	NC_021162.1	Ca_Kabuli_Chr03	35119516	AA	TT	TT	INTERGENIC		
SNP_17402_A_35119521	NC_021162.1	Ca_Kabuli_Chr03	35119521	AA	TT	TT	INTERGENIC		
SNP_17403_A_35119553	NC_021162.1	Ca_Kabuli_Chr03	35119553	TT	CC	CC	INTERGENIC		
SNP_17404_A_35125509	NC_021162.1	Ca_Kabuli_Chr03	35125509	AA	CC	CC	INTRON	101505098	uncharacterized LOC101505098
SNP_17405_A_35126134	NC_021162.1	Ca_Kabuli_Chr03	35126134	GG	CC	CC	INTRON	101505098	uncharacterized LOC101505098
SNP_17406_A_35126183	NC_021162.1	Ca_Kabuli_Chr03	35126183	AA	GG	GG	SYNONYMOUS_CODING	101505098	uncharacterized LOC101505098
SNP_17407_A_35127891	NC_021162.1	Ca_Kabuli_Chr03	35127891	CC	TT	TT	URR	101505098	uncharacterized LOC101505098
SNP_17408_A_35131572	NC_021162.1	Ca_Kabuli_Chr03	35131572	TT	CC	CC	INTERGENIC		
SNP_17409_A_35131588	NC_021162.1	Ca_Kabuli_Chr03	35131588	TT	CC	CC	INTERGENIC		
SNP_17410_A_35131613	NC_021162.1	Ca_Kabuli_Chr03	35131613	AA	TT	TT	INTERGENIC		
SNP_17411_A_35135657	NC_021162.1	Ca_Kabuli_Chr03	35135657	TT	CC	CC	INTERGENIC		
SNP_17412_A_35136396	NC_021162.1	Ca_Kabuli_Chr03	35136396	AA	GG	GG	INTERGENIC		
SNP_17414_A_35137450	NC_021162.1	Ca_Kabuli_Chr03	35137450	TT	CC	CC	DRR	101514241	probable purple acid phosphatase 20
SNP_17416_A_35139354	NC_021162.1	Ca_Kabuli_Chr03	35139354	AA	GG	GG	INTRON	101514241	probable purple acid phosphatase 20
SNP_17418_A_35143356	NC_021162.1	Ca_Kabuli_Chr03	35143356	GG	AA	AA	URR	101514241	probable purple acid phosphatase 20
SNP_17419_A_35143671	NC_021162.1	Ca_Kabuli_Chr03	35143671	CC	TT	TT	URR	101514241	probable purple acid phosphatase 20
SNP_17420_A_35144053	NC_021162.1	Ca_Kabuli_Chr03	35144053	GG	TT	TT	URR	101514241	probable purple acid phosphatase 20
SNP_17421_A_35144207	NC_021162.1	Ca_Kabuli_Chr03	35144207	GG	AA	AA	URR	101514241	probable purple acid phosphatase 20
SNP_17422_A_35146798	NC_021162.1	Ca_Kabuli_Chr03	35146798	TT	AA	AA	INTERGENIC		
SNP_17423_A_35147012	NC_021162.1	Ca_Kabuli_Chr03	35147012	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17424_A_35147052	NC_021162.1	Ca_Kabuli_Chr03	35147052	TT	AA	AA	INTERGENIC		
SNP_17426_A_35149563	NC_021162.1	Ca_Kabuli_Chr03	35149563	GG	AA	AA	INTERGENIC		
SNP_17427_A_35149595	NC_021162.1	Ca_Kabuli_Chr03	35149595	TT	CC	CC	INTERGENIC		
SNP_17428_A_35149764	NC_021162.1	Ca_Kabuli_Chr03	35149764	AA	GG	GG	INTERGENIC		
SNP_17429_A_35150060	NC_021162.1	Ca_Kabuli_Chr03	35150060	GG	AA	AA	INTERGENIC		
SNP_17430_A_35151330	NC_021162.1	Ca_Kabuli_Chr03	35151330	CC	TT	TT	INTERGENIC		
SNP_17431_A_35151339	NC_021162.1	Ca_Kabuli_Chr03	35151339	GG	AA	AA	INTERGENIC		
SNP_17432_A_35151364	NC_021162.1	Ca_Kabuli_Chr03	35151364	CC	GG	GG	INTERGENIC		
SNP_17433_A_35151379	NC_021162.1	Ca_Kabuli_Chr03	35151379	GG	AA	AA	INTERGENIC		
SNP_17434_A_35151388	NC_021162.1	Ca_Kabuli_Chr03	35151388	AA	GG	GG	INTERGENIC		
SNP_17435_A_35152153	NC_021162.1	Ca_Kabuli_Chr03	35152153	TT	CC	CC	INTERGENIC		
SNP_17436_A_35158309	NC_021162.1	Ca_Kabuli_Chr03	35158309	TT	AA	AA	URR	101505420	uncharacterized LOC101505420
SNP_17437_A_35158323	NC_021162.1	Ca_Kabuli_Chr03	35158323	AA	GG	GG	URR	101505420	uncharacterized LOC101505420
SNP_17438_A_35158343	NC_021162.1	Ca_Kabuli_Chr03	35158343	GG	AA	AA	URR	101505420	uncharacterized LOC101505420
SNP_17439_A_35158383	NC_021162.1	Ca_Kabuli_Chr03	35158383	CC	TT	TT	URR	101505420	uncharacterized LOC101505420
SNP_17440_A_35158390	NC_021162.1	Ca_Kabuli_Chr03	35158390	AA	CC	CC	URR	101505420	uncharacterized LOC101505420
SNP_17441_A_35158656	NC_021162.1	Ca_Kabuli_Chr03	35158656	TT	CC	CC	INTERGENIC		
SNP_17442_A_35164608	NC_021162.1	Ca_Kabuli_Chr03	35164608	AA	GG	GG	URR	101505755	protein YIPF5 homolog
SNP_17443_A_35164616	NC_021162.1	Ca_Kabuli_Chr03	35164616	AA	GG	GG	URR	101505755	protein YIPF5 homolog
SNP_17444_A_35166611	NC_021162.1	Ca_Kabuli_Chr03	35166611	TT	CC	CC	INTERGENIC		
SNP_17446_A_35173327	NC_021162.1	Ca_Kabuli_Chr03	35173327	AA	GG	GG	DRR	101506075	protein CENTRORADIALIS-like
SNP_17447_A_35173813	NC_021162.1	Ca_Kabuli_Chr03	35173813	AA	GG	GG	DRR	101506075	protein CENTRORADIALIS-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17448_A_35173827	NC_021162.1	Ca_Kabuli_Chr03	35173827	GG	CC	CC	DRR	101506075	protein CENTRORADIALIS-like
SNP_17449_A_35175117	NC_021162.1	Ca_Kabuli_Chr03	35175117	TT	GG	GG	URR	101506075	protein CENTRORADIALIS-like
SNP_17450_A_35178761	NC_021162.1	Ca_Kabuli_Chr03	35178761	CC	TT	TT	INTERGENIC		
SNP_17452_A_35187188	NC_021162.1	Ca_Kabuli_Chr03	35187188	CC	TT	TT	DRR	101507167	F-box/LRR-repeat protein At1g67190-like
SNP_17453_A_35190531	NC_021162.1	Ca_Kabuli_Chr03	35190531	CC	GG	GG	URR	101507167	F-box/LRR-repeat protein At1g67190-like
SNP_17454_A_35190912	NC_021162.1	Ca_Kabuli_Chr03	35190912	GG	TT	TT	URR	101507167	F-box/LRR-repeat protein At1g67190-like
SNP_17455_A_35199619	NC_021162.1	Ca_Kabuli_Chr03	35199619	TT	GG	GG	URR	101507484	cell division protein FtsZ homolog 2-1, chloroplastic-like
SNP_17456_A_35204651	NC_021162.1	Ca_Kabuli_Chr03	35204651	CC	GG	GG	DRR	101508117	uncharacterized LOC101508117
SNP_17457_A_35204674	NC_021162.1	Ca_Kabuli_Chr03	35204674	GG	CC	CC	DRR	101508117	uncharacterized LOC101508117
SNP_17459_A_35204687	NC_021162.1	Ca_Kabuli_Chr03	35204687	TT	GG	GG	DRR	101508117	uncharacterized LOC101508117
SNP_17460_A_35213049	NC_021162.1	Ca_Kabuli_Chr03	35213049	TT	GG	GG	URR	101507796	probable cytosolic iron-sulfur protein assembly protein CIAO1 homolog
SNP_17462_A_35213116	NC_021162.1	Ca_Kabuli_Chr03	35213116	AA	GG	GG	URR	101507796	probable cytosolic iron-sulfur protein assembly protein CIAO1 homolog
SNP_17463_A_35213717	NC_021162.1	Ca_Kabuli_Chr03	35213717	TT	AA	AA	URR	101507796	probable cytosolic iron-sulfur protein assembly protein CIAO1 homolog
SNP_17464_A_35213948	NC_021162.1	Ca_Kabuli_Chr03	35213948	AA	GG	GG	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17465_A_35214130	NC_021162.1	Ca_Kabuli_Chr03	35214130	GG	AA	AA	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17466_A_35214237	NC_021162.1	Ca_Kabuli_Chr03	35214237	CC	TT	TT	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17467_A_35214255	NC_021162.1	Ca_Kabuli_Chr03	35214255	TT	GG	GG	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17468_A_35214405	NC_021162.1	Ca_Kabuli_Chr03	35214405	TT	AA	AA	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17469_A_35214525	NC_021162.1	Ca_Kabuli_Chr03	35214525	TT	AA	AA	DRR	101508529	cytochrome b-c1 complex subunit 9
SNP_17470_A_35215139	NC_021162.1	Ca_Kabuli_Chr03	35215139	TT	CC	CC	SYNONYMOUS_CODING	101508529	cytochrome b-c1 complex subunit 9
SNP_17472_A_35219964	NC_021162.1	Ca_Kabuli_Chr03	35219964	TT	CC	CC	INTERGENIC		
SNP_17473_A_35219965	NC_021162.1	Ca_Kabuli_Chr03	35219965	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17474_A_35220255	NC_021162.1	Ca_Kabuli_Chr03	35220255	AA	GG	GG	INTERGENIC		
SNP_17475_A_35225825	NC_021162.1	Ca_Kabuli_Chr03	35225825	GG	TT	TT	INTRON	101508842	lysophospholipid acyltransferase LPEAT1-like
SNP_17476_A_35226585	NC_021162.1	Ca_Kabuli_Chr03	35226585	TT	CC	CC	INTERGENIC		
SNP_17477_A_35228105	NC_021162.1	Ca_Kabuli_Chr03	35228105	TT	AA	AA	INTERGENIC		
SNP_17478_A_35229219	NC_021162.1	Ca_Kabuli_Chr03	35229219	AA	TT	TT	URR	101508842	lysophospholipid acyltransferase LPEAT1-like
SNP_17480_A_35233191	NC_021162.1	Ca_Kabuli_Chr03	35233191	AA	CC	CC	INTERGENIC		
SNP_17481_A_35233366	NC_021162.1	Ca_Kabuli_Chr03	35233366	GG	AA	AA	DRR	101510234	glucosamine 6-phosphate N-acetyltransferase
SNP_17482_A_35233458	NC_021162.1	Ca_Kabuli_Chr03	35233458	GG	AA	AA	DRR	101510234	glucosamine 6-phosphate N-acetyltransferase
SNP_17483_A_35233832	NC_021162.1	Ca_Kabuli_Chr03	35233832	GG	AA	AA	DRR	101510234	glucosamine 6-phosphate N-acetyltransferase
SNP_17484_A_35236437	NC_021162.1	Ca_Kabuli_Chr03	35236437	TT	CC	CC	URR	101510234	glucosamine 6-phosphate N-acetyltransferase
SNP_17485_A_35236617	NC_021162.1	Ca_Kabuli_Chr03	35236617	CC	GG	GG	URR	101510234	glucosamine 6-phosphate N-acetyltransferase
SNP_17486_A_35241514	NC_021162.1	Ca_Kabuli_Chr03	35241514	TT	CC	CC	INTERGENIC		
SNP_17487_A_35241974	NC_021162.1	Ca_Kabuli_Chr03	35241974	CC	TT	TT	INTERGENIC		
SNP_17489_A_35243616	NC_021162.1	Ca_Kabuli_Chr03	35243616	AA	GG	GG	INTERGENIC		
SNP_17490_A_35245192	NC_021162.1	Ca_Kabuli_Chr03	35245192	AA	TT	TT	URR	101511634	heme-binding-like protein At3g10130, chloroplastic
SNP_17491_A_35245957	NC_021162.1	Ca_Kabuli_Chr03	35245957	AA	GG	GG	DRR	101511310	uncharacterized LOC101511310
SNP_17492_A_35246018	NC_021162.1	Ca_Kabuli_Chr03	35246018	TT	AA	AA	DRR	101511310	uncharacterized LOC101511310
SNP_17493_A_35247339	NC_021162.1	Ca_Kabuli_Chr03	35247339	GG	CC	CC	URR	101511310	uncharacterized LOC101511310
SNP_17496_A_35248369	NC_021162.1	Ca_Kabuli_Chr03	35248369	CC	TT	TT	URR	101511310	uncharacterized LOC101511310
SNP_17497_A_35248370	NC_021162.1	Ca_Kabuli_Chr03	35248370	TT	GG	GG	URR	101511310	uncharacterized LOC101511310
SNP_17498_A_35249547	NC_021162.1	Ca_Kabuli_Chr03	35249547	AA	GG	GG	INTERGENIC		
SNP_17499_A_35249556	NC_021162.1	Ca_Kabuli_Chr03	35249556	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17500_A_35249633	NC_021162.1	Ca_Kabuli_Chr03	35249633	CC	TT	TT	INTERGENIC		
SNP_17501_A_35249865	NC_021162.1	Ca_Kabuli_Chr03	35249865	GG	AA	AA	INTERGENIC		
SNP_17502_A_35250228	NC_021162.1	Ca_Kabuli_Chr03	35250228	AA	TT	TT	INTERGENIC		
SNP_17503_A_35250233	NC_021162.1	Ca_Kabuli_Chr03	35250233	GG	AA	AA	INTERGENIC		
SNP_17504_A_35252786	NC_021162.1	Ca_Kabuli_Chr03	35252786	TT	CC	CC	INTERGENIC		
SNP_17505_A_35255056	NC_021162.1	Ca_Kabuli_Chr03	35255056	AA	TT	TT	INTERGENIC		
SNP_17506_A_35256914	NC_021162.1	Ca_Kabuli_Chr03	35256914	TT	CC	CC	INTERGENIC		
SNP_17507_A_35257239	NC_021162.1	Ca_Kabuli_Chr03	35257239	GG	AA	AA	INTERGENIC		
SNP_17508_A_35260770	NC_021162.1	Ca_Kabuli_Chr03	35260770	AA	CC	CC	URR	101512167	uncharacterized protein At5g39865
SNP_17510_A_35261425	NC_021162.1	Ca_Kabuli_Chr03	35261425	TT	CC	CC	URR	101512167	uncharacterized protein At5g39865
SNP_17511_A_35261783	NC_021162.1	Ca_Kabuli_Chr03	35261783	CC	TT	TT	URR	101512167	uncharacterized protein At5g39865
SNP_17513_A_35261854	NC_021162.1	Ca_Kabuli_Chr03	35261854	TT	GG	GG	URR	101512167	uncharacterized protein At5g39865
SNP_17514_A_35265162	NC_021162.1	Ca_Kabuli_Chr03	35265162	TT	CC	CC	INTERGENIC		
SNP_17515_A_35265181	NC_021162.1	Ca_Kabuli_Chr03	35265181	AA	CC	CC	INTERGENIC		
SNP_17517_A_35266486	NC_021162.1	Ca_Kabuli_Chr03	35266486	CC	TT	TT	INTERGENIC		
SNP_17518_A_35267165	NC_021162.1	Ca_Kabuli_Chr03	35267165	CC	TT	TT	INTERGENIC		
SNP_17519_A_35267279	NC_021162.1	Ca_Kabuli_Chr03	35267279	AA	GG	GG	INTERGENIC		
SNP_17520_A_35267523	NC_021162.1	Ca_Kabuli_Chr03	35267523	AA	GG	GG	INTERGENIC		
SNP_17522_A_35286227	NC_021162.1	Ca_Kabuli_Chr03	35286227	CC	TT	TT	INTERGENIC		
SNP_17523_A_35286242	NC_021162.1	Ca_Kabuli_Chr03	35286242	CC	TT	TT	INTERGENIC		
SNP_17524_A_35286250	NC_021162.1	Ca_Kabuli_Chr03	35286250	AA	GG	GG	INTERGENIC		
SNP_17525_A_35286474	NC_021162.1	Ca_Kabuli_Chr03	35286474	AA	TT	TT	DRR	101513581	replication protein A 14 kDa subunit B

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17526_A_35289150	NC_021162.1	Ca_Kabuli_Chr03	35289150	CC	TT	TT	DRR	101515087	signal recognition particle 54 kDa protein, chloroplastic
SNP_17527_A_35290669	NC_021162.1	Ca_Kabuli_Chr03	35290669	GG	TT	TT	URR	101513581	replication protein A 14 kDa subunit B
SNP_17528_A_35290986	NC_021162.1	Ca_Kabuli_Chr03	35290986	GG	AA	AA	INTRON	101515087	signal recognition particle 54 kDa protein, chloroplastic
SNP_17530_A_35294594	NC_021162.1	Ca_Kabuli_Chr03	35294594	AA	CC	CC	INTERGENIC		
SNP_17531_A_35294687	NC_021162.1	Ca_Kabuli_Chr03	35294687	TT	CC	CC	INTERGENIC		
SNP_17532_A_35298939	NC_021162.1	Ca_Kabuli_Chr03	35298939	GG	AA	AA	INTRON	101515411	rho GTPase-activating protein 5
SNP_17535_A_35301374	NC_021162.1	Ca_Kabuli_Chr03	35301374	TT	CC	CC	URR	101515411	rho GTPase-activating protein 5
SNP_17536_A_35301377	NC_021162.1	Ca_Kabuli_Chr03	35301377	GG	CC	CC	URR	101515411	rho GTPase-activating protein 5
SNP_17537_A_35301379	NC_021162.1	Ca_Kabuli_Chr03	35301379	GG	AA	AA	URR	101515411	rho GTPase-activating protein 5
SNP_17538_A_35301980	NC_021162.1	Ca_Kabuli_Chr03	35301980	CC	AA	AA	URR	101515411	rho GTPase-activating protein 5
SNP_17541_A_35303471	NC_021162.1	Ca_Kabuli_Chr03	35303471	CC	AA	AA	INTERGENIC		
SNP_17542_A_35303608	NC_021162.1	Ca_Kabuli_Chr03	35303608	GG	CC	CC	INTERGENIC		
SNP_17543_A_35304414	NC_021162.1	Ca_Kabuli_Chr03	35304414	AA	TT	TT	INTERGENIC		
SNP_17544_A_35304561	NC_021162.1	Ca_Kabuli_Chr03	35304561	TT	CC	CC	INTERGENIC		
SNP_17545_A_35304596	NC_021162.1	Ca_Kabuli_Chr03	35304596	CC	TT	TT	INTERGENIC		
SNP_17546_A_35305100	NC_021162.1	Ca_Kabuli_Chr03	35305100	GG	AA	AA	INTERGENIC		
SNP_17547_A_35306378	NC_021162.1	Ca_Kabuli_Chr03	35306378	CC	GG	GG	DRR	101515746	probable small nuclear ribonucleoprotein G
SNP_17548_A_35306661	NC_021162.1	Ca_Kabuli_Chr03	35306661	TT	CC	CC	DRR	101515746	probable small nuclear ribonucleoprotein G
SNP_17549_A_35306663	NC_021162.1	Ca_Kabuli_Chr03	35306663	AA	GG	GG	DRR	101515746	probable small nuclear ribonucleoprotein G
SNP_17551_A_35307551	NC_021162.1	Ca_Kabuli_Chr03	35307551	TT	CC	CC	INTRON	101515746	probable small nuclear ribonucleoprotein G
SNP_17552_A_35307553	NC_021162.1	Ca_Kabuli_Chr03	35307553	AA	GG	GG	INTRON	101515746	probable small nuclear ribonucleoprotein G
SNP_17554_A_35310935	NC_021162.1	Ca_Kabuli_Chr03	35310935	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17555_A_35312564	NC_021162.1	Ca_Kabuli_Chr03	35312564	GG	AA	AA	INTERGENIC		
SNP_17556_A_35312835	NC_021162.1	Ca_Kabuli_Chr03	35312835	GG	CC	CC	INTERGENIC		
SNP_17557_A_35312857	NC_021162.1	Ca_Kabuli_Chr03	35312857	GG	AA	AA	INTERGENIC		
SNP_17558_A_35312861	NC_021162.1	Ca_Kabuli_Chr03	35312861	CC	TT	TT	INTERGENIC		
SNP_17559_A_35314275	NC_021162.1	Ca_Kabuli_Chr03	35314275	TT	CC	CC	URR	101488509	indole-3-acetic acid-induced protein ARG7
SNP_17560_A_35314277	NC_021162.1	Ca_Kabuli_Chr03	35314277	CC	AA	AA	URR	101488509	indole-3-acetic acid-induced protein ARG7
SNP_17561_A_35314288	NC_021162.1	Ca_Kabuli_Chr03	35314288	AA	GG	GG	URR	101488509	indole-3-acetic acid-induced protein ARG7
SNP_17562_A_35316765	NC_021162.1	Ca_Kabuli_Chr03	35316765	TT	CC	CC	INTERGENIC		
SNP_17563_A_35316833	NC_021162.1	Ca_Kabuli_Chr03	35316833	TT	CC	CC	INTERGENIC		
SNP_17564_A_35316869	NC_021162.1	Ca_Kabuli_Chr03	35316869	AA	GG	GG	INTERGENIC		
SNP_17565_A_35316909	NC_021162.1	Ca_Kabuli_Chr03	35316909	TT	CC	CC	INTERGENIC		
SNP_17566_A_35316950	NC_021162.1	Ca_Kabuli_Chr03	35316950	CC	AA	AA	INTERGENIC		
SNP_17567_A_35316960	NC_021162.1	Ca_Kabuli_Chr03	35316960	GG	AA	AA	INTERGENIC		
SNP_17568_A_35317043	NC_021162.1	Ca_Kabuli_Chr03	35317043	GG	CC	CC	INTERGENIC		
SNP_17569_A_35317050	NC_021162.1	Ca_Kabuli_Chr03	35317050	GG	AA	AA	INTERGENIC		
SNP_17570_A_35317104	NC_021162.1	Ca_Kabuli_Chr03	35317104	TT	CC	CC	INTERGENIC		
SNP_17571_A_35317296	NC_021162.1	Ca_Kabuli_Chr03	35317296	GG	TT	TT	INTERGENIC		
SNP_17573_A_35320392	NC_021162.1	Ca_Kabuli_Chr03	35320392	AA	GG	GG	URR	101488848	uncharacterized LOC101488848
SNP_17574_A_35320402	NC_021162.1	Ca_Kabuli_Chr03	35320402	AA	GG	GG	URR	101488848	uncharacterized LOC101488848
SNP_17575_A_35320403	NC_021162.1	Ca_Kabuli_Chr03	35320403	TT	CC	CC	URR	101488848	uncharacterized LOC101488848
SNP_17576_A_35323226	NC_021162.1	Ca_Kabuli_Chr03	35323226	TT	GG	GG	INTERGENIC		
SNP_17577_A_35323249	NC_021162.1	Ca_Kabuli_Chr03	35323249	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17578_A_35323275	NC_021162.1	Ca_Kabuli_Chr03	35323275	CC	TT	TT	INTERGENIC		
SNP_17579_A_35323281	NC_021162.1	Ca_Kabuli_Chr03	35323281	GG	AA	AA	INTERGENIC		
SNP_17580_A_35323562	NC_021162.1	Ca_Kabuli_Chr03	35323562	GG	AA	AA	INTERGENIC		
SNP_17581_A_35324320	NC_021162.1	Ca_Kabuli_Chr03	35324320	GG	AA	AA	INTERGENIC		
SNP_17583_A_35329961	NC_021162.1	Ca_Kabuli_Chr03	35329961	CC	TT	TT	INTRON	101489170	125 kDa kinesin-related protein
SNP_17584_A_35330012	NC_021162.1	Ca_Kabuli_Chr03	35330012	GG	AA	AA	NON_SYNONYMOUS_CODING	101489170	125 kDa kinesin-related protein
SNP_17585_A_35333800	NC_021162.1	Ca_Kabuli_Chr03	35333800	CC	TT	TT	DRR	101489501	beta-fructofuranosidase, insoluble isoenzyme 1-like
SNP_17586_A_35334908	NC_021162.1	Ca_Kabuli_Chr03	35334908	AA	GG	GG	URR	101489170	125 kDa kinesin-related protein
SNP_17587_A_35334917	NC_021162.1	Ca_Kabuli_Chr03	35334917	AA	TT	TT	URR	101489170	125 kDa kinesin-related protein
SNP_17588_A_35336784	NC_021162.1	Ca_Kabuli_Chr03	35336784	TT	CC	CC	INTERGENIC		
SNP_17589_A_35336793	NC_021162.1	Ca_Kabuli_Chr03	35336793	TT	CC	CC	INTERGENIC		
SNP_17590_A_35336796	NC_021162.1	Ca_Kabuli_Chr03	35336796	TT	AA	AA	INTERGENIC		
SNP_17592_A_35337016	NC_021162.1	Ca_Kabuli_Chr03	35337016	TT	AA	AA	INTERGENIC		
SNP_17593_A_35339549	NC_021162.1	Ca_Kabuli_Chr03	35339549	TT	AA	AA	INTRON	101489501	beta-fructofuranosidase, insoluble isoenzyme 1-like
SNP_17594_A_35340979	NC_021162.1	Ca_Kabuli_Chr03	35340979	AA	GG	GG	URR	101489501	beta-fructofuranosidase, insoluble isoenzyme 1-like
SNP_17595_A_35343151	NC_021162.1	Ca_Kabuli_Chr03	35343151	CC	TT	TT	INTERGENIC		
SNP_17596_A_35349650	NC_021162.1	Ca_Kabuli_Chr03	35349650	AA	TT	TT	DRR	101490142	ubiquitin-60S ribosomal protein L40
SNP_17597_A_35350337	NC_021162.1	Ca_Kabuli_Chr03	35350337	AA	TT	TT	INTERGENIC		
SNP_17598_A_35350342	NC_021162.1	Ca_Kabuli_Chr03	35350342	CC	AA	AA	INTERGENIC		
SNP_17599_A_35350354	NC_021162.1	Ca_Kabuli_Chr03	35350354	AA	CC	CC	INTERGENIC		
SNP_17600_A_35350356	NC_021162.1	Ca_Kabuli_Chr03	35350356	GG	CC	CC	INTERGENIC		
SNP_17601_A_35350388	NC_021162.1	Ca_Kabuli_Chr03	35350388	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17602_A_35350400	NC_021162.1	Ca_Kabuli_Chr03	35350400	AA	TT	TT	INTERGENIC		
SNP_17603_A_35350403	NC_021162.1	Ca_Kabuli_Chr03	35350403	CC	AA	AA	INTERGENIC		
SNP_17604_A_35350462	NC_021162.1	Ca_Kabuli_Chr03	35350462	TT	CC	CC	INTERGENIC		
SNP_17605_A_35350755	NC_021162.1	Ca_Kabuli_Chr03	35350755	CC	AA	AA	INTERGENIC		
SNP_17606_A_35351036	NC_021162.1	Ca_Kabuli_Chr03	35351036	AA	GG	GG	INTERGENIC		
SNP_17607_A_35351044	NC_021162.1	Ca_Kabuli_Chr03	35351044	CC	AA	AA	INTERGENIC		
SNP_17608_A_35351060	NC_021162.1	Ca_Kabuli_Chr03	35351060	CC	TT	TT	INTERGENIC		
SNP_17609_A_35351064	NC_021162.1	Ca_Kabuli_Chr03	35351064	CC	GG	GG	INTERGENIC		
SNP_17610_A_35357975	NC_021162.1	Ca_Kabuli_Chr03	35357975	CC	TT	TT	URR	101490465	alpha/beta hydrolase domain-containing protein 11
SNP_17611_A_35358393	NC_021162.1	Ca_Kabuli_Chr03	35358393	CC	TT	TT	URR	101490465	alpha/beta hydrolase domain-containing protein 11
SNP_17612_A_35358581	NC_021162.1	Ca_Kabuli_Chr03	35358581	AA	TT	TT	URR	101490465	alpha/beta hydrolase domain-containing protein 11
SNP_17613_A_35358582	NC_021162.1	Ca_Kabuli_Chr03	35358582	TT	AA	AA	URR	101490465	alpha/beta hydrolase domain-containing protein 11
SNP_17614_A_35358585	NC_021162.1	Ca_Kabuli_Chr03	35358585	AA	TT	TT	URR	101490465	alpha/beta hydrolase domain-containing protein 11
SNP_17616_A_35361456	NC_021162.1	Ca_Kabuli_Chr03	35361456	GG	TT	TT	INTERGENIC		
SNP_17618_A_35362339	NC_021162.1	Ca_Kabuli_Chr03	35362339	AA	GG	GG	INTERGENIC		
SNP_17619_A_35362970	NC_021162.1	Ca_Kabuli_Chr03	35362970	CC	AA	AA	DRR	101490790	uncharacterized LOC101490790
SNP_17620_A_35363242	NC_021162.1	Ca_Kabuli_Chr03	35363242	TT	CC	CC	DRR	101490790	uncharacterized LOC101490790
SNP_17621_A_35363302	NC_021162.1	Ca_Kabuli_Chr03	35363302	AA	GG	GG	DRR	101490790	uncharacterized LOC101490790
SNP_17622_A_35363308	NC_021162.1	Ca_Kabuli_Chr03	35363308	TT	CC	CC	DRR	101490790	uncharacterized LOC101490790
SNP_17623_A_35363309	NC_021162.1	Ca_Kabuli_Chr03	35363309	TT	CC	CC	DRR	101490790	uncharacterized LOC101490790
SNP_17624_A_35363327	NC_021162.1	Ca_Kabuli_Chr03	35363327	CC	TT	TT	DRR	101490790	uncharacterized LOC101490790
SNP_17625_A_35363346	NC_021162.1	Ca_Kabuli_Chr03	35363346	CC	TT	TT	DRR	101490790	uncharacterized LOC101490790

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17627_A_35367107	NC_021162.1	Ca_Kabuli_Chr03	35367107	TT	AA	AA	INTERGENIC			
SNP_17628_A_35367139	NC_021162.1	Ca_Kabuli_Chr03	35367139	TT	CC	CC	INTERGENIC			
SNP_17629_A_35367153	NC_021162.1	Ca_Kabuli_Chr03	35367153	GG	AA	AA	INTERGENIC			
SNP_17630_A_35367154	NC_021162.1	Ca_Kabuli_Chr03	35367154	CC	TT	TT	INTERGENIC			
SNP_17631_A_35367604	NC_021162.1	Ca_Kabuli_Chr03	35367604	TT	CC	CC	INTERGENIC			
SNP_17632_A_35367613	NC_021162.1	Ca_Kabuli_Chr03	35367613	CC	TT	TT	INTERGENIC			
SNP_17633_A_35367996	NC_021162.1	Ca_Kabuli_Chr03	35367996	AA	GG	GG	INTERGENIC			
SNP_17634_A_35368016	NC_021162.1	Ca_Kabuli_Chr03	35368016	GG	TT	TT	INTERGENIC			
SNP_17635_A_35368338	NC_021162.1	Ca_Kabuli_Chr03	35368338	AA	GG	GG	INTERGENIC			
SNP_17637_A_35368793	NC_021162.1	Ca_Kabuli_Chr03	35368793	TT	GG	GG	INTERGENIC			
SNP_17638_A_35368994	NC_021162.1	Ca_Kabuli_Chr03	35368994	GG	AA	AA	INTERGENIC			
SNP_17640_A_35370998	NC_021162.1	Ca_Kabuli_Chr03	35370998	TT	CC	CC	INTERGENIC			
SNP_17641_A_35374917	NC_021162.1	Ca_Kabuli_Chr03	35374917	TT	AA	AA	URR		101491116	NAC domain-containing protein 90-like
SNP_17642_A_35375042	NC_021162.1	Ca_Kabuli_Chr03	35375042	AA	GG	GG	URR		101491116	NAC domain-containing protein 90-like
SNP_17643_A_35375051	NC_021162.1	Ca_Kabuli_Chr03	35375051	GG	AA	AA	URR		101491116	NAC domain-containing protein 90-like
SNP_17644_A_35375052	NC_021162.1	Ca_Kabuli_Chr03	35375052	AA	CC	CC	URR		101491116	NAC domain-containing protein 90-like
SNP_17645_A_35375352	NC_021162.1	Ca_Kabuli_Chr03	35375352	GG	AA	AA	URR		101491116	NAC domain-containing protein 90-like
SNP_17646_A_35375354	NC_021162.1	Ca_Kabuli_Chr03	35375354	GG	AA	AA	URR		101491116	NAC domain-containing protein 90-like
SNP_17647_A_35379903	NC_021162.1	Ca_Kabuli_Chr03	35379903	CC	GG	GG	INTERGENIC			
SNP_17648_A_35379937	NC_021162.1	Ca_Kabuli_Chr03	35379937	TT	AA	AA	INTERGENIC			
SNP_17649_A_35382189	NC_021162.1	Ca_Kabuli_Chr03	35382189	GG	AA	AA	DRR		101491430	vacuolar protein sorting-associated protein 55 homolog
SNP_17650_A_35382524	NC_021162.1	Ca_Kabuli_Chr03	35382524	AA	CC	CC	DRR		101491430	vacuolar protein sorting-associated protein 55 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17651_A_35389679	NC_021162.1	Ca_Kabuli_Chr03	35389679	GG	AA	AA	INTRON	101492291	peptidyl-prolyl cis-trans isomerase CYP18-2
SNP_17652_A_35390302	NC_021162.1	Ca_Kabuli_Chr03	35390302	GG	AA	AA	DRR	101491958	mitochondrial fission protein ELM1
SNP_17653_A_35390550	NC_021162.1	Ca_Kabuli_Chr03	35390550	CC	TT	TT	DRR	101491958	mitochondrial fission protein ELM1
SNP_17655_A_35391902	NC_021162.1	Ca_Kabuli_Chr03	35391902	CC	AA	AA	URR	101492291	peptidyl-prolyl cis-trans isomerase CYP18-2
SNP_17657_A_35393574	NC_021162.1	Ca_Kabuli_Chr03	35393574	CC	GG	GG	INTRON	101491958	mitochondrial fission protein ELM1
SNP_17658_A_35393575	NC_021162.1	Ca_Kabuli_Chr03	35393575	GG	TT	TT	INTRON	101491958	mitochondrial fission protein ELM1
SNP_17660_A_35395961	NC_021162.1	Ca_Kabuli_Chr03	35395961	GG	AA	AA	DRR	101492629	mRNA-decapping enzyme-like protein
SNP_17661_A_35395969	NC_021162.1	Ca_Kabuli_Chr03	35395969	CC	AA	AA	DRR	101492629	mRNA-decapping enzyme-like protein
SNP_17662_A_35395973	NC_021162.1	Ca_Kabuli_Chr03	35395973	AA	TT	TT	DRR	101492629	mRNA-decapping enzyme-like protein
SNP_17664_A_35396060	NC_021162.1	Ca_Kabuli_Chr03	35396060	TT	CC	CC	DRR	101492629	mRNA-decapping enzyme-like protein
SNP_17665_A_35396649	NC_021162.1	Ca_Kabuli_Chr03	35396649	TT	CC	CC	URR	101491958	mitochondrial fission protein ELM1
SNP_17667_A_35398736	NC_021162.1	Ca_Kabuli_Chr03	35398736	GG	AA	AA	INTERGENIC		
SNP_17668_A_35399422	NC_021162.1	Ca_Kabuli_Chr03	35399422	AA	CC	CC	INTERGENIC		
SNP_17670_A_35409681	NC_021162.1	Ca_Kabuli_Chr03	35409681	GG	AA	AA	URR	101514556	probable F-box protein At1g60180
SNP_17671_A_35409731	NC_021162.1	Ca_Kabuli_Chr03	35409731	TT	AA	AA	URR	101514556	probable F-box protein At1g60180
SNP_17672_A_35409752	NC_021162.1	Ca_Kabuli_Chr03	35409752	GG	AA	AA	URR	101514556	probable F-box protein At1g60180
SNP_17673_A_35409764	NC_021162.1	Ca_Kabuli_Chr03	35409764	TT	CC	CC	URR	101514556	probable F-box protein At1g60180
SNP_17674_A_35409826	NC_021162.1	Ca_Kabuli_Chr03	35409826	TT	GG	GG	URR	101514556	probable F-box protein At1g60180
SNP_17675_A_35414923	NC_021162.1	Ca_Kabuli_Chr03	35414923	CC	TT	TT	SYNONYMOUS_CODING	101493500	uncharacterized LOC101493500
SNP_17676_A_35421345	NC_021162.1	Ca_Kabuli_Chr03	35421345	GG	AA	AA	INTRON	101493500	uncharacterized LOC101493500
SNP_17677_A_35423600	NC_021162.1	Ca_Kabuli_Chr03	35423600	GG	TT	TT	DRR	101494041	uncharacterized LOC101494041
SNP_17678_A_35423605	NC_021162.1	Ca_Kabuli_Chr03	35423605	GG	AA	AA	DRR	101494041	uncharacterized LOC101494041

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17679_A_35425433	NC_021162.1	Ca_Kabuli_Chr03	35425433	CC	TT	TT	INTERGENIC		
SNP_17680_A_35426481	NC_021162.1	Ca_Kabuli_Chr03	35426481	TT	CC	CC	INTERGENIC		
SNP_17681_A_35426514	NC_021162.1	Ca_Kabuli_Chr03	35426514	GG	TT	TT	INTERGENIC		
SNP_17683_A_35436696	NC_021162.1	Ca_Kabuli_Chr03	35436696	TT	AA	AA	URR	101494766	B3 domain-containing protein At2g36080-like
SNP_17684_A_35438797	NC_021162.1	Ca_Kabuli_Chr03	35438797	GG	AA	AA	INTERGENIC		
SNP_17685_A_35438806	NC_021162.1	Ca_Kabuli_Chr03	35438806	GG	TT	TT	INTERGENIC		
SNP_17687_A_35440262	NC_021162.1	Ca_Kabuli_Chr03	35440262	TT	AA	AA	INTERGENIC		
SNP_17688_A_35441289	NC_021162.1	Ca_Kabuli_Chr03	35441289	TT	CC	CC	INTERGENIC		
SNP_17689_A_35441368	NC_021162.1	Ca_Kabuli_Chr03	35441368	CC	TT	TT	INTERGENIC		
SNP_17690_A_35443470	NC_021162.1	Ca_Kabuli_Chr03	35443470	AA	GG	GG	INTERGENIC		
SNP_17691_A_35444737	NC_021162.1	Ca_Kabuli_Chr03	35444737	CC	TT	TT	INTERGENIC		
SNP_17692_A_35445699	NC_021162.1	Ca_Kabuli_Chr03	35445699	TT	GG	GG	INTERGENIC		
SNP_17693_A_35446104	NC_021162.1	Ca_Kabuli_Chr03	35446104	TT	CC	CC	INTERGENIC		
SNP_17694_A_35446107	NC_021162.1	Ca_Kabuli_Chr03	35446107	TT	GG	GG	INTERGENIC		
SNP_17695_A_35446588	NC_021162.1	Ca_Kabuli_Chr03	35446588	CC	TT	TT	DRR	101495097	lysosomal Pro-X carboxypeptidase-like
SNP_17696_A_35446606	NC_021162.1	Ca_Kabuli_Chr03	35446606	GG	AA	AA	DRR	101495097	lysosomal Pro-X carboxypeptidase-like
SNP_17697_A_35451549	NC_021162.1	Ca_Kabuli_Chr03	35451549	TT	GG	GG	URR	101495097	lysosomal Pro-X carboxypeptidase-like
SNP_17698_A_35452390	NC_021162.1	Ca_Kabuli_Chr03	35452390	CC	TT	TT	URR	101495097	lysosomal Pro-X carboxypeptidase-like
SNP_17699_A_35452418	NC_021162.1	Ca_Kabuli_Chr03	35452418	CC	TT	TT	URR	101495097	lysosomal Pro-X carboxypeptidase-like
SNP_17700_A_35454290	NC_021162.1	Ca_Kabuli_Chr03	35454290	TT	CC	CC	INTERGENIC		
SNP_17701_A_35456486	NC_021162.1	Ca_Kabuli_Chr03	35456486	CC	AA	AA	INTERGENIC		
SNP_17702_A_35456768	NC_021162.1	Ca_Kabuli_Chr03	35456768	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17703_A_35456804	NC_021162.1	Ca_Kabuli_Chr03	35456804	AA	GG	GG	INTERGENIC		
SNP_17704_A_35456812	NC_021162.1	Ca_Kabuli_Chr03	35456812	GG	AA	AA	INTERGENIC		
SNP_17705_A_35456827	NC_021162.1	Ca_Kabuli_Chr03	35456827	GG	AA	AA	INTERGENIC		
SNP_17706_A_35457805	NC_021162.1	Ca_Kabuli_Chr03	35457805	CC	TT	TT	INTERGENIC		
SNP_17707_A_35458910	NC_021162.1	Ca_Kabuli_Chr03	35458910	TT	CC	CC	INTERGENIC		
SNP_17708_A_35458923	NC_021162.1	Ca_Kabuli_Chr03	35458923	CC	AA	AA	INTERGENIC		
SNP_17709_A_35459347	NC_021162.1	Ca_Kabuli_Chr03	35459347	TT	CC	CC	INTERGENIC		
SNP_17710_A_35460875	NC_021162.1	Ca_Kabuli_Chr03	35460875	GG	TT	TT	INTRON	101495425	uncharacterized LOC101495425
SNP_17711_A_35465789	NC_021162.1	Ca_Kabuli_Chr03	35465789	AA	GG	GG	INTERGENIC		
SNP_17712_A_35466310	NC_021162.1	Ca_Kabuli_Chr03	35466310	GG	TT	TT	INTERGENIC		
SNP_17714_A_35469769	NC_021162.1	Ca_Kabuli_Chr03	35469769	TT	CC	CC	INTRON	101495760	putative pentatricopeptide repeat-containing protein At5g37570
SNP_17715_A_35480208	NC_021162.1	Ca_Kabuli_Chr03	35480208	TT	CC	CC	URR	101496081	secoisolaricresinol dehydrogenase-like
SNP_17716_A_35480215	NC_021162.1	Ca_Kabuli_Chr03	35480215	TT	GG	GG	URR	101496081	secoisolaricresinol dehydrogenase-like
SNP_17717_A_35480216	NC_021162.1	Ca_Kabuli_Chr03	35480216	CC	TT	TT	URR	101496081	secoisolaricresinol dehydrogenase-like
SNP_17718_A_35483779	NC_021162.1	Ca_Kabuli_Chr03	35483779	AA	GG	GG	INTERGENIC		
SNP_17719_A_35484116	NC_021162.1	Ca_Kabuli_Chr03	35484116	AA	GG	GG	INTERGENIC		
SNP_17720_A_35484658	NC_021162.1	Ca_Kabuli_Chr03	35484658	CC	AA	AA	INTERGENIC		
SNP_17721_A_35484826	NC_021162.1	Ca_Kabuli_Chr03	35484826	GG	AA	AA	INTERGENIC		
SNP_17723_A_35488377	NC_021162.1	Ca_Kabuli_Chr03	35488377	TT	AA	AA	INTRON	101496741	TLD domain-containing protein 1
SNP_17724_A_35489912	NC_021162.1	Ca_Kabuli_Chr03	35489912	GG	AA	AA	INTRON	101496741	TLD domain-containing protein 1
SNP_17725_A_35490399	NC_021162.1	Ca_Kabuli_Chr03	35490399	CC	GG	GG	INTRON	101496741	TLD domain-containing protein 1
SNP_17726_A_35492244	NC_021162.1	Ca_Kabuli_Chr03	35492244	CC	AA	AA	INTRON	101496741	TLD domain-containing protein 1

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SNP_17727_A_35492306	NC_021162.1	Ca_Kabuli_Chr03	35492306	AA	TT	TT	INTRON	101496741	TLD domain-containing protein 1
SNP_17728_A_35493733	NC_021162.1	Ca_Kabuli_Chr03	35493733	AA	GG	GG	URR	101496741	TLD domain-containing protein 1
SNP_17729_A_35495746	NC_021162.1	Ca_Kabuli_Chr03	35495746	TT	CC	CC	INTERGENIC		
SNP_17730_A_35495813	NC_021162.1	Ca_Kabuli_Chr03	35495813	AA	CC	CC	INTERGENIC		
SNP_17731_A_35495816	NC_021162.1	Ca_Kabuli_Chr03	35495816	TT	CC	CC	INTERGENIC		
SNP_17732_A_35498803	NC_021162.1	Ca_Kabuli_Chr03	35498803	CC	TT	TT	INTERGENIC		
SNP_17733_A_35498948	NC_021162.1	Ca_Kabuli_Chr03	35498948	TT	AA	AA	INTERGENIC		
SNP_17734_A_35499272	NC_021162.1	Ca_Kabuli_Chr03	35499272	AA	TT	TT	INTERGENIC		
SNP_17735_A_35499281	NC_021162.1	Ca_Kabuli_Chr03	35499281	CC	GG	GG	INTERGENIC		
SNP_17736_A_35500150	NC_021162.1	Ca_Kabuli_Chr03	35500150	GG	CC	CC	INTERGENIC		
SNP_17737_A_35502457	NC_021162.1	Ca_Kabuli_Chr03	35502457	TT	CC	CC	INTERGENIC		
SNP_17738_A_35502549	NC_021162.1	Ca_Kabuli_Chr03	35502549	GG	AA	AA	INTERGENIC		
SNP_17739_A_35505837	NC_021162.1	Ca_Kabuli_Chr03	35505837	CC	AA	AA	INTERGENIC		
SNP_17741_A_35505862	NC_021162.1	Ca_Kabuli_Chr03	35505862	AA	GG	GG	INTERGENIC		
SNP_17742_A_35513860	NC_021162.1	Ca_Kabuli_Chr03	35513860	CC	TT	TT	INTERGENIC		
SNP_17743_A_35526402	NC_021162.1	Ca_Kabuli_Chr03	35526402	GG	AA	AA	INTERGENIC		
SNP_17745_A_35529241	NC_021162.1	Ca_Kabuli_Chr03	35529241	TT	AA	AA	DRR	101497716	transcription repressor OFP15
SNP_17746_A_35529275	NC_021162.1	Ca_Kabuli_Chr03	35529275	TT	CC	CC	DRR	101497716	transcription repressor OFP15
SNP_17747_A_35529363	NC_021162.1	Ca_Kabuli_Chr03	35529363	TT	AA	AA	DRR	101497716	transcription repressor OFP15
SNP_17748_A_35531312	NC_021162.1	Ca_Kabuli_Chr03	35531312	AA	GG	GG	URR	101497716	transcription repressor OFP15
SNP_17749_A_35532597	NC_021162.1	Ca_Kabuli_Chr03	35532597	CC	TT	TT	INTERGENIC		
SNP_17751_A_35532791	NC_021162.1	Ca_Kabuli_Chr03	35532791	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17752_A_35535618	NC_021162.1	Ca_Kabuli_Chr03	35535618	TT	CC	CC	INTERGENIC		
SNP_17753_A_35535622	NC_021162.1	Ca_Kabuli_Chr03	35535622	GG	AA	AA	INTERGENIC		
SNP_17754_A_35536345	NC_021162.1	Ca_Kabuli_Chr03	35536345	TT	CC	CC	INTERGENIC		
SNP_17755_A_35545757	NC_021162.1	Ca_Kabuli_Chr03	35545757	CC	AA	AA	DRR	101498373	UPF0554 protein
SNP_17756_A_35550680	NC_021162.1	Ca_Kabuli_Chr03	35550680	GG	AA	AA	INTRON	101498373	UPF0554 protein
SNP_17757_A_35551431	NC_021162.1	Ca_Kabuli_Chr03	35551431	CC	TT	TT	INTRON	101498373	UPF0554 protein
SNP_17758_A_35554239	NC_021162.1	Ca_Kabuli_Chr03	35554239	CC	TT	TT	URR	101498373	UPF0554 protein
SNP_17759_A_35554526	NC_021162.1	Ca_Kabuli_Chr03	35554526	GG	CC	CC	URR	101498373	UPF0554 protein
SNP_17760_A_35554529	NC_021162.1	Ca_Kabuli_Chr03	35554529	CC	GG	GG	URR	101498373	UPF0554 protein
SNP_17762_A_35562346	NC_021162.1	Ca_Kabuli_Chr03	35562346	TT	AA	AA	URR	101499038	HVA22-like protein j
SNP_17763_A_35562365	NC_021162.1	Ca_Kabuli_Chr03	35562365	GG	TT	TT	URR	101499038	HVA22-like protein j
SNP_17764_A_35562535	NC_021162.1	Ca_Kabuli_Chr03	35562535	GG	AA	AA	DRR	101499562	2-Cys peroxiredoxin BAS1, chloroplastic
SNP_17765_A_35562570	NC_021162.1	Ca_Kabuli_Chr03	35562570	TT	CC	CC	DRR	101499562	2-Cys peroxiredoxin BAS1, chloroplastic
SNP_17766_A_35562713	NC_021162.1	Ca_Kabuli_Chr03	35562713	GG	TT	TT	DRR	101499562	2-Cys peroxiredoxin BAS1, chloroplastic
SNP_17768_A_35564239	NC_021162.1	Ca_Kabuli_Chr03	35564239	GG	TT	TT	INTERGENIC		
SNP_17770_A_35569917	NC_021162.1	Ca_Kabuli_Chr03	35569917	AA	GG	GG	URR	101500088	uncharacterized LOC101500088
SNP_17771_A_35570325	NC_021162.1	Ca_Kabuli_Chr03	35570325	AA	GG	GG	URR	101500088	uncharacterized LOC101500088
SNP_17772_A_35570358	NC_021162.1	Ca_Kabuli_Chr03	35570358	TT	CC	CC	URR	101500088	uncharacterized LOC101500088
SNP_17773_A_35570370	NC_021162.1	Ca_Kabuli_Chr03	35570370	GG	AA	AA	URR	101500088	uncharacterized LOC101500088
SNP_17774_A_35570374	NC_021162.1	Ca_Kabuli_Chr03	35570374	GG	AA	AA	URR	101500088	uncharacterized LOC101500088
SNP_17775_A_35570379	NC_021162.1	Ca_Kabuli_Chr03	35570379	GG	AA	AA	URR	101500088	uncharacterized LOC101500088
SNP_17776_A_35570383	NC_021162.1	Ca_Kabuli_Chr03	35570383	GG	AA	AA	URR	101500088	uncharacterized LOC101500088

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SNP_17777_A_35570384	NC_021162.1	Ca_Kabuli_Chr03	35570384	GG	AA	AA	URR	101500088	uncharacterized LOC101500088
SNP_17778_A_35570405	NC_021162.1	Ca_Kabuli_Chr03	35570405	AA	CC	CC	URR	101500088	uncharacterized LOC101500088
SNP_17779_A_35570456	NC_021162.1	Ca_Kabuli_Chr03	35570456	AA	GG	GG	URR	101500088	uncharacterized LOC101500088
SNP_17780_A_35572248	NC_021162.1	Ca_Kabuli_Chr03	35572248	TT	CC	CC	INTERGENIC		
SNP_17781_A_35573295	NC_021162.1	Ca_Kabuli_Chr03	35573295	GG	CC	CC	INTERGENIC		
SNP_17782_A_35574782	NC_021162.1	Ca_Kabuli_Chr03	35574782	TT	GG	GG	INTERGENIC		
SNP_17784_A_35575059	NC_021162.1	Ca_Kabuli_Chr03	35575059	CC	TT	TT	DRR	101500418	aspartic proteinase nepenthesin-1
SNP_17785_A_35579755	NC_021162.1	Ca_Kabuli_Chr03	35579755	AA	CC	CC	URR	101500418	aspartic proteinase nepenthesin-1
SNP_17786_A_35580420	NC_021162.1	Ca_Kabuli_Chr03	35580420	GG	AA	AA	INTERGENIC		
SNP_17787_A_35580473	NC_021162.1	Ca_Kabuli_Chr03	35580473	GG	CC	CC	INTERGENIC		
SNP_17788_A_35580485	NC_021162.1	Ca_Kabuli_Chr03	35580485	TT	CC	CC	INTERGENIC		
SNP_17789_A_35580779	NC_021162.1	Ca_Kabuli_Chr03	35580779	CC	TT	TT	INTERGENIC		
SNP_17790_A_35582202	NC_021162.1	Ca_Kabuli_Chr03	35582202	AA	GG	GG	INTERGENIC		
SNP_17791_A_35583088	NC_021162.1	Ca_Kabuli_Chr03	35583088	GG	AA	AA	INTERGENIC		
SNP_17792_A_35583520	NC_021162.1	Ca_Kabuli_Chr03	35583520	GG	AA	AA	INTERGENIC		
SNP_17793_A_35584239	NC_021162.1	Ca_Kabuli_Chr03	35584239	AA	TT	TT	INTERGENIC		
SNP_17794_A_35584257	NC_021162.1	Ca_Kabuli_Chr03	35584257	TT	CC	CC	INTERGENIC		
SNP_17795_A_35591220	NC_021162.1	Ca_Kabuli_Chr03	35591220	CC	TT	TT	INTERGENIC		
SNP_17797_A_35591247	NC_021162.1	Ca_Kabuli_Chr03	35591247	CC	TT	TT	INTERGENIC		
SNP_17798_A_35591268	NC_021162.1	Ca_Kabuli_Chr03	35591268	GG	AA	AA	INTERGENIC		
SNP_17799_A_35591326	NC_021162.1	Ca_Kabuli_Chr03	35591326	TT	CC	CC	INTERGENIC		
SNP_17800_A_35591329	NC_021162.1	Ca_Kabuli_Chr03	35591329	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17801_A_35591544	NC_021162.1	Ca_Kabuli_Chr03	35591544	TT	AA	AA	INTERGENIC		
SNP_17802_A_35591546	NC_021162.1	Ca_Kabuli_Chr03	35591546	TT	CC	CC	INTERGENIC		
SNP_17803_A_35593324	NC_021162.1	Ca_Kabuli_Chr03	35593324	TT	CC	CC	INTERGENIC		
SNP_17804_A_35593645	NC_021162.1	Ca_Kabuli_Chr03	35593645	AA	GG	GG	INTERGENIC		
SNP_17806_A_35600432	NC_021162.1	Ca_Kabuli_Chr03	35600432	TT	GG	GG	DRR	101514882	protein YLS9-like
SNP_17807_A_35600437	NC_021162.1	Ca_Kabuli_Chr03	35600437	CC	TT	TT	DRR	101514882	protein YLS9-like
SNP_17809_A_35600622	NC_021162.1	Ca_Kabuli_Chr03	35600622	TT	GG	GG	DRR	101514882	protein YLS9-like
SNP_17810_A_35600624	NC_021162.1	Ca_Kabuli_Chr03	35600624	CC	GG	GG	DRR	101514882	protein YLS9-like
SNP_17811_A_35600625	NC_021162.1	Ca_Kabuli_Chr03	35600625	GG	TT	TT	DRR	101514882	protein YLS9-like
SNP_17812_A_35600652	NC_021162.1	Ca_Kabuli_Chr03	35600652	AA	GG	GG	DRR	101514882	protein YLS9-like
SNP_17813_A_35600657	NC_021162.1	Ca_Kabuli_Chr03	35600657	AA	CC	CC	DRR	101514882	protein YLS9-like
SNP_17814_A_35600658	NC_021162.1	Ca_Kabuli_Chr03	35600658	TT	AA	AA	DRR	101514882	protein YLS9-like
SNP_17815_A_35602023	NC_021162.1	Ca_Kabuli_Chr03	35602023	CC	GG	GG	URR	101514882	protein YLS9-like
SNP_17816_A_35602029	NC_021162.1	Ca_Kabuli_Chr03	35602029	TT	CC	CC	URR	101514882	protein YLS9-like
SNP_17818_A_35602302	NC_021162.1	Ca_Kabuli_Chr03	35602302	AA	TT	TT	URR	101514882	protein YLS9-like
SNP_17819_A_35602326	NC_021162.1	Ca_Kabuli_Chr03	35602326	CC	TT	TT	URR	101514882	protein YLS9-like
SNP_17820_A_35604310	NC_021162.1	Ca_Kabuli_Chr03	35604310	AA	GG	GG	INTERGENIC		
SNP_17821_A_35605366	NC_021162.1	Ca_Kabuli_Chr03	35605366	AA	CC	CC	DRR	101501355	protein YLS9-like
SNP_17822_A_35608050	NC_021162.1	Ca_Kabuli_Chr03	35608050	TT	AA	AA	URR	101501355	protein YLS9-like
SNP_17823_A_35608071	NC_021162.1	Ca_Kabuli_Chr03	35608071	GG	AA	AA	URR	101501355	protein YLS9-like
SNP_17825_A_35615558	NC_021162.1	Ca_Kabuli_Chr03	35615558	AA	GG	GG	INTERGENIC		
SNP_17826_A_35617892	NC_021162.1	Ca_Kabuli_Chr03	35617892	TT	CC	CC	URR	101515208	uncharacterized LOC101515208

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SNP_17829_A_35624890	NC_021162.1	Ca_Kabuli_Chr03	35624890	AA	GG	GG	URR	101501676	uncharacterized LOC101501676
SNP_17831_A_35626716	NC_021162.1	Ca_Kabuli_Chr03	35626716	GG	AA	AA	INTERGENIC		
SNP_17832_A_35626810	NC_021162.1	Ca_Kabuli_Chr03	35626810	CC	AA	AA	INTERGENIC		
SNP_17833_A_35627385	NC_021162.1	Ca_Kabuli_Chr03	35627385	TT	CC	CC	INTERGENIC		
SNP_17834_A_35628407	NC_021162.1	Ca_Kabuli_Chr03	35628407	AA	GG	GG	INTERGENIC		
SNP_17835_A_35628443	NC_021162.1	Ca_Kabuli_Chr03	35628443	AA	GG	GG	INTERGENIC		
SNP_17836_A_35631086	NC_021162.1	Ca_Kabuli_Chr03	35631086	TT	CC	CC	INTERGENIC		
SNP_17837_A_35631833	NC_021162.1	Ca_Kabuli_Chr03	35631833	AA	TT	TT	INTERGENIC		
SNP_17838_A_35631909	NC_021162.1	Ca_Kabuli_Chr03	35631909	CC	AA	AA	INTERGENIC		
SNP_17839_A_35632173	NC_021162.1	Ca_Kabuli_Chr03	35632173	AA	TT	TT	INTERGENIC		
SNP_17840_A_35632348	NC_021162.1	Ca_Kabuli_Chr03	35632348	GG	AA	AA	INTERGENIC		
SNP_17841_A_35632441	NC_021162.1	Ca_Kabuli_Chr03	35632441	AA	GG	GG	INTERGENIC		
SNP_17842_A_35633751	NC_021162.1	Ca_Kabuli_Chr03	35633751	TT	AA	AA	INTERGENIC		
SNP_17843_A_35633759	NC_021162.1	Ca_Kabuli_Chr03	35633759	TT	CC	CC	INTERGENIC		
SNP_17844_A_35635333	NC_021162.1	Ca_Kabuli_Chr03	35635333	AA	GG	GG	INTERGENIC		
SNP_17846_A_35638328	NC_021162.1	Ca_Kabuli_Chr03	35638328	TT	CC	CC	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17847_A_35638381	NC_021162.1	Ca_Kabuli_Chr03	35638381	CC	TT	TT	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17848_A_35639903	NC_021162.1	Ca_Kabuli_Chr03	35639903	GG	CC	CC	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17849_A_35640273	NC_021162.1	Ca_Kabuli_Chr03	35640273	AA	CC	CC	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17850_A_35640274	NC_021162.1	Ca_Kabuli_Chr03	35640274	CC	AA	AA	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17851_A_35642241	NC_021162.1	Ca_Kabuli_Chr03	35642241	AA	GG	GG	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17852_A_35642255	NC_021162.1	Ca_Kabuli_Chr03	35642255	GG	CC	CC	INTRON	101501991	testis-expressed sequence 10 protein

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SNP_17853_A_35642373	NC_021162.1	Ca_Kabuli_Chr03	35642373	TT	CC	CC	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17854_A_35643107	NC_021162.1	Ca_Kabuli_Chr03	35643107	CC	TT	TT	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17855_A_35643493	NC_021162.1	Ca_Kabuli_Chr03	35643493	GG	AA	AA	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17856_A_35643513	NC_021162.1	Ca_Kabuli_Chr03	35643513	CC	AA	AA	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17857_A_35643692	NC_021162.1	Ca_Kabuli_Chr03	35643692	GG	AA	AA	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17859_A_35647138	NC_021162.1	Ca_Kabuli_Chr03	35647138	AA	GG	GG	INTRON	101501991	testis-expressed sequence 10 protein
SNP_17860_A_35650241	NC_021162.1	Ca_Kabuli_Chr03	35650241	TT	CC	CC	DRR	101515531	uncharacterized LOC101515531
SNP_17861_A_35650256	NC_021162.1	Ca_Kabuli_Chr03	35650256	TT	CC	CC	DRR	101515531	uncharacterized LOC101515531
SNP_17862_A_35650258	NC_021162.1	Ca_Kabuli_Chr03	35650258	TT	GG	GG	DRR	101515531	uncharacterized LOC101515531
SNP_17863_A_35650261	NC_021162.1	Ca_Kabuli_Chr03	35650261	AA	CC	CC	DRR	101515531	uncharacterized LOC101515531
SNP_17864_A_35651357	NC_021162.1	Ca_Kabuli_Chr03	35651357	GG	TT	TT	INTRON	101515531	uncharacterized LOC101515531
SNP_17865_A_35651365	NC_021162.1	Ca_Kabuli_Chr03	35651365	AA	GG	GG	INTRON	101515531	uncharacterized LOC101515531
SNP_17866_A_35652667	NC_021162.1	Ca_Kabuli_Chr03	35652667	GG	AA	AA	INTERGENIC		
SNP_17868_A_35652860	NC_021162.1	Ca_Kabuli_Chr03	35652860	GG	TT	TT	INTERGENIC		
SNP_17869_A_35656356	NC_021162.1	Ca_Kabuli_Chr03	35656356	AA	GG	GG	URR	101515531	uncharacterized LOC101515531
SNP_17870_A_35660919	NC_021162.1	Ca_Kabuli_Chr03	35660919	CC	AA	AA	SYNONYMOUS_CODING	101502630	probable receptor protein kinase TMK1
SNP_17871_A_35661120	NC_021162.1	Ca_Kabuli_Chr03	35661120	AA	GG	GG	SYNONYMOUS_CODING	101502630	probable receptor protein kinase TMK1
SNP_17872_A_35664355	NC_021162.1	Ca_Kabuli_Chr03	35664355	GG	AA	AA	INTERGENIC		
SNP_17873_A_35665280	NC_021162.1	Ca_Kabuli_Chr03	35665280	CC	TT	TT	INTERGENIC		
SNP_17874_A_35666576	NC_021162.1	Ca_Kabuli_Chr03	35666576	AA	TT	TT	INTERGENIC		
SNP_17875_A_35666599	NC_021162.1	Ca_Kabuli_Chr03	35666599	GG	AA	AA	INTERGENIC		
SNP_17876_A_35669147	NC_021162.1	Ca_Kabuli_Chr03	35669147	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17877_A_35669200	NC_021162.1	Ca_Kabuli_Chr03	35669200	TT	CC	CC	INTERGENIC		
SNP_17878_A_35669394	NC_021162.1	Ca_Kabuli_Chr03	35669394	AA	GG	GG	INTERGENIC		
SNP_17879_A_35669433	NC_021162.1	Ca_Kabuli_Chr03	35669433	GG	AA	AA	INTERGENIC		
SNP_17880_A_35670799	NC_021162.1	Ca_Kabuli_Chr03	35670799	GG	AA	AA	DRR	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17881_A_35674025	NC_021162.1	Ca_Kabuli_Chr03	35674025	TT	GG	GG	INTRON	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17882_A_35674373	NC_021162.1	Ca_Kabuli_Chr03	35674373	GG	AA	AA	INTRON	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17883_A_35674746	NC_021162.1	Ca_Kabuli_Chr03	35674746	TT	AA	AA	INTRON	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17884_A_35674777	NC_021162.1	Ca_Kabuli_Chr03	35674777	AA	CC	CC	INTRON	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17886_A_35678788	NC_021162.1	Ca_Kabuli_Chr03	35678788	GG	AA	AA	URR	101502949	digalactosyldiacylglycerol synthase 1, chloroplastic
SNP_17888_A_35679699	NC_021162.1	Ca_Kabuli_Chr03	35679699	CC	AA	AA	DRR	101488282	aluminum-activated malate transporter 8
SNP_17889_A_35679709	NC_021162.1	Ca_Kabuli_Chr03	35679709	CC	TT	TT	DRR	101488282	aluminum-activated malate transporter 8
SNP_17890_A_35679782	NC_021162.1	Ca_Kabuli_Chr03	35679782	GG	TT	TT	DRR	101488282	aluminum-activated malate transporter 8
SNP_17891_A_35680086	NC_021162.1	Ca_Kabuli_Chr03	35680086	AA	GG	GG	DRR	101488282	aluminum-activated malate transporter 8
SNP_17892_A_35680726	NC_021162.1	Ca_Kabuli_Chr03	35680726	GG	AA	AA	INTERGENIC		
SNP_17893_A_35684506	NC_021162.1	Ca_Kabuli_Chr03	35684506	GG	AA	AA	URR	101488282	aluminum-activated malate transporter 8
SNP_17894_A_35685090	NC_021162.1	Ca_Kabuli_Chr03	35685090	TT	AA	AA	URR	101488282	aluminum-activated malate transporter 8
SNP_17895_A_35685813	NC_021162.1	Ca_Kabuli_Chr03	35685813	TT	CC	CC	URR	101488282	aluminum-activated malate transporter 8
SNP_17896_A_35685826	NC_021162.1	Ca_Kabuli_Chr03	35685826	AA	GG	GG	URR	101488282	aluminum-activated malate transporter 8
SNP_17897_A_35692908	NC_021162.1	Ca_Kabuli_Chr03	35692908	TT	AA	AA	INTERGENIC		
SNP_17898_A_35692954	NC_021162.1	Ca_Kabuli_Chr03	35692954	GG	TT	TT	INTERGENIC		
SNP_17899_A_35695066	NC_021162.1	Ca_Kabuli_Chr03	35695066	GG	AA	AA	INTERGENIC		
SNP_17900_A_35695428	NC_021162.1	Ca_Kabuli_Chr03	35695428	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17901_A_35696447	NC_021162.1	Ca_Kabuli_Chr03	35696447	CC	TT	TT	INTERGENIC			
SNP_17904_A_35699173	NC_021162.1	Ca_Kabuli_Chr03	35699173	CC	TT	TT	INTERGENIC			
SNP_17906_A_35702944	NC_021162.1	Ca_Kabuli_Chr03	35702944	CC	AA	AA	INTERGENIC			
SNP_17907_A_35703033	NC_021162.1	Ca_Kabuli_Chr03	35703033	CC	TT	TT	INTERGENIC			
SNP_17908_A_35703034	NC_021162.1	Ca_Kabuli_Chr03	35703034	CC	TT	TT	INTERGENIC			
SNP_17909_A_35703129	NC_021162.1	Ca_Kabuli_Chr03	35703129	AA	GG	GG	INTERGENIC			
SNP_17910_A_35703266	NC_021162.1	Ca_Kabuli_Chr03	35703266	TT	CC	CC	INTERGENIC			
SNP_17911_A_35703283	NC_021162.1	Ca_Kabuli_Chr03	35703283	CC	TT	TT	INTERGENIC			
SNP_17912_A_35703290	NC_021162.1	Ca_Kabuli_Chr03	35703290	TT	CC	CC	INTERGENIC			
SNP_17913_A_35703306	NC_021162.1	Ca_Kabuli_Chr03	35703306	AA	GG	GG	INTERGENIC			
SNP_17915_A_35703741	NC_021162.1	Ca_Kabuli_Chr03	35703741	TT	GG	GG	INTERGENIC			
SNP_17916_A_35703956	NC_021162.1	Ca_Kabuli_Chr03	35703956	CC	AA	AA	INTERGENIC			
SNP_17919_A_35707263	NC_021162.1	Ca_Kabuli_Chr03	35707263	TT	CC	CC	INTERGENIC			
SNP_17920_A_35707341	NC_021162.1	Ca_Kabuli_Chr03	35707341	CC	GG	GG	INTERGENIC			
SNP_17921_A_35707366	NC_021162.1	Ca_Kabuli_Chr03	35707366	CC	GG	GG	INTERGENIC			
SNP_17922_A_35707828	NC_021162.1	Ca_Kabuli_Chr03	35707828	CC	TT	TT	INTERGENIC			
SNP_17923_A_35707900	NC_021162.1	Ca_Kabuli_Chr03	35707900	AA	TT	TT	INTERGENIC			
SNP_17924_A_35708239	NC_021162.1	Ca_Kabuli_Chr03	35708239	AA	GG	GG	INTERGENIC			
SNP_17925_A_35708264	NC_021162.1	Ca_Kabuli_Chr03	35708264	AA	TT	TT	INTERGENIC			
SNP_17926_A_35709709	NC_021162.1	Ca_Kabuli_Chr03	35709709	AA	TT	TT	INTERGENIC			
SNP_17927_A_35711286	NC_021162.1	Ca_Kabuli_Chr03	35711286	TT	GG	GG	INTERGENIC			
SNP_17928_A_35711297	NC_021162.1	Ca_Kabuli_Chr03	35711297	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17929_A_35711319	NC_021162.1	Ca_Kabuli_Chr03	35711319	CC	TT	TT	INTERGENIC		
SNP_17930_A_35711634	NC_021162.1	Ca_Kabuli_Chr03	35711634	GG	AA	AA	INTERGENIC		
SNP_17931_A_35711670	NC_021162.1	Ca_Kabuli_Chr03	35711670	TT	GG	GG	INTERGENIC		
SNP_17932_A_35716785	NC_021162.1	Ca_Kabuli_Chr03	35716785	CC	AA	AA	INTRON	101503601	BEL1-like homeodomain protein 1
SNP_17933_A_35716797	NC_021162.1	Ca_Kabuli_Chr03	35716797	TT	GG	GG	INTRON	101503601	BEL1-like homeodomain protein 1
SNP_17934_A_35718902	NC_021162.1	Ca_Kabuli_Chr03	35718902	TT	CC	CC	INTERGENIC		
SNP_17935_A_35719501	NC_021162.1	Ca_Kabuli_Chr03	35719501	TT	AA	AA	INTERGENIC		
SNP_17936_A_35719586	NC_021162.1	Ca_Kabuli_Chr03	35719586	TT	AA	AA	INTERGENIC		
SNP_17937_A_35719606	NC_021162.1	Ca_Kabuli_Chr03	35719606	CC	TT	TT	INTERGENIC		
SNP_17938_A_35722717	NC_021162.1	Ca_Kabuli_Chr03	35722717	TT	AA	AA	URR	101503601	BEL1-like homeodomain protein 1
SNP_17939_A_35725242	NC_021162.1	Ca_Kabuli_Chr03	35725242	TT	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17940_A_35725271	NC_021162.1	Ca_Kabuli_Chr03	35725271	CC	TT	TT	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17941_A_35725277	NC_021162.1	Ca_Kabuli_Chr03	35725277	TT	GG	GG	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17942_A_35725416	NC_021162.1	Ca_Kabuli_Chr03	35725416	TT	CC	CC	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17943_A_35725422	NC_021162.1	Ca_Kabuli_Chr03	35725422	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17944_A_35725423	NC_021162.1	Ca_Kabuli_Chr03	35725423	TT	CC	CC	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17945_A_35725431	NC_021162.1	Ca_Kabuli_Chr03	35725431	AA	GG	GG	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17946_A_35725461	NC_021162.1	Ca_Kabuli_Chr03	35725461	AA	GG	GG	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17947_A_35725481	NC_021162.1	Ca_Kabuli_Chr03	35725481	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17948_A_35725485	NC_021162.1	Ca_Kabuli_Chr03	35725485	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17949_A_35725498	NC_021162.1	Ca_Kabuli_Chr03	35725498	CC	GG	GG	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17950_A_35725602	NC_021162.1	Ca_Kabuli_Chr03	35725602	CC	TT	TT	URR	101503925	BTB/POZ domain-containing protein At3g05675

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_17951_A_35725698	NC_021162.1	Ca_Kabuli_Chr03	35725698	AA	GG	GG	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17953_A_35725845	NC_021162.1	Ca_Kabuli_Chr03	35725845	AA	TT	TT	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17954_A_35725895	NC_021162.1	Ca_Kabuli_Chr03	35725895	GG	TT	TT	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17956_A_35725921	NC_021162.1	Ca_Kabuli_Chr03	35725921	GG	CC	CC	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17957_A_35725952	NC_021162.1	Ca_Kabuli_Chr03	35725952	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17958_A_35726092	NC_021162.1	Ca_Kabuli_Chr03	35726092	TT	CC	CC	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17959_A_35726095	NC_021162.1	Ca_Kabuli_Chr03	35726095	TT	CC	CC	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17960_A_35726358	NC_021162.1	Ca_Kabuli_Chr03	35726358	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17961_A_35726377	NC_021162.1	Ca_Kabuli_Chr03	35726377	AA	TT	TT	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17963_A_35726557	NC_021162.1	Ca_Kabuli_Chr03	35726557	GG	AA	AA	URR	101503925	BTB/POZ domain-containing protein At3g05675
SNP_17964_A_35726636	NC_021162.1	Ca_Kabuli_Chr03	35726636	TT	CC	CC	INTERGENIC		
SNP_17965_A_35726822	NC_021162.1	Ca_Kabuli_Chr03	35726822	TT	CC	CC	INTERGENIC		
SNP_17966_A_35727048	NC_021162.1	Ca_Kabuli_Chr03	35727048	CC	TT	TT	INTERGENIC		
SNP_17967_A_35727072	NC_021162.1	Ca_Kabuli_Chr03	35727072	CC	TT	TT	INTERGENIC		
SNP_17968_A_35727087	NC_021162.1	Ca_Kabuli_Chr03	35727087	AA	GG	GG	INTERGENIC		
SNP_17969_A_35727301	NC_021162.1	Ca_Kabuli_Chr03	35727301	AA	GG	GG	INTERGENIC		
SNP_17970_A_35727346	NC_021162.1	Ca_Kabuli_Chr03	35727346	CC	GG	GG	INTERGENIC		
SNP_17971_A_35727950	NC_021162.1	Ca_Kabuli_Chr03	35727950	CC	TT	TT	INTERGENIC		
SNP_17972_A_35728304	NC_021162.1	Ca_Kabuli_Chr03	35728304	TT	CC	CC	INTERGENIC		
SNP_17973_A_35728312	NC_021162.1	Ca_Kabuli_Chr03	35728312	GG	AA	AA	INTERGENIC		
SNP_17974_A_35728326	NC_021162.1	Ca_Kabuli_Chr03	35728326	GG	AA	AA	INTERGENIC		
SNP_17975_A_35728360	NC_021162.1	Ca_Kabuli_Chr03	35728360	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_17976_A_35728530	NC_021162.1	Ca_Kabuli_Chr03	35728530	GG	AA	AA	INTERGENIC			
SNP_17977_A_35728544	NC_021162.1	Ca_Kabuli_Chr03	35728544	GG	AA	AA	INTERGENIC			
SNP_17978_A_35728614	NC_021162.1	Ca_Kabuli_Chr03	35728614	AA	GG	GG	INTERGENIC			
SNP_17979_A_35728847	NC_021162.1	Ca_Kabuli_Chr03	35728847	AA	CC	CC	INTERGENIC			
SNP_17980_A_35729048	NC_021162.1	Ca_Kabuli_Chr03	35729048	AA	GG	GG	INTERGENIC			
SNP_17981_A_35729810	NC_021162.1	Ca_Kabuli_Chr03	35729810	TT	CC	CC	INTERGENIC			
SNP_17983_A_35730691	NC_021162.1	Ca_Kabuli_Chr03	35730691	TT	AA	AA	INTERGENIC			
SNP_17984_A_35731256	NC_021162.1	Ca_Kabuli_Chr03	35731256	CC	GG	GG	INTERGENIC			
SNP_17985_A_35733292	NC_021162.1	Ca_Kabuli_Chr03	35733292	CC	TT	TT	INTERGENIC			
SNP_17986_A_35733299	NC_021162.1	Ca_Kabuli_Chr03	35733299	AA	TT	TT	INTERGENIC			
SNP_17988_A_35733646	NC_021162.1	Ca_Kabuli_Chr03	35733646	AA	TT	TT	INTERGENIC			
SNP_17989_A_35733787	NC_021162.1	Ca_Kabuli_Chr03	35733787	GG	AA	AA	INTERGENIC			
SNP_17990_A_35733796	NC_021162.1	Ca_Kabuli_Chr03	35733796	GG	AA	AA	INTERGENIC			
SNP_17991_A_35733854	NC_021162.1	Ca_Kabuli_Chr03	35733854	TT	CC	CC	INTERGENIC			
SNP_17992_A_35734994	NC_021162.1	Ca_Kabuli_Chr03	35734994	CC	TT	TT	INTERGENIC			
SNP_17993_A_35735032	NC_021162.1	Ca_Kabuli_Chr03	35735032	CC	TT	TT	INTERGENIC			
SNP_17994_A_35735050	NC_021162.1	Ca_Kabuli_Chr03	35735050	AA	CC	CC	INTERGENIC			
SNP_17995_A_35735060	NC_021162.1	Ca_Kabuli_Chr03	35735060	AA	GG	GG	INTERGENIC			
SNP_17996_A_35735075	NC_021162.1	Ca_Kabuli_Chr03	35735075	TT	AA	AA	INTERGENIC			
SNP_17997_A_35736248	NC_021162.1	Ca_Kabuli_Chr03	35736248	GG	CC	CC	INTERGENIC			
SNP_17998_A_35736557	NC_021162.1	Ca_Kabuli_Chr03	35736557	GG	TT	TT	INTERGENIC			
SNP_17999_A_35739917	NC_021162.1	Ca_Kabuli_Chr03	35739917	CC	GG	GG	DRR	101504462	E3 ubiquitin-protein ligase PUB22	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18000_A_35740106	NC_021162.1	Ca_Kabuli_Chr03	35740106	AA	GG	GG	URR	101504462	E3 ubiquitin-protein ligase PUB22
SNP_18001_A_35742462	NC_021162.1	Ca_Kabuli_Chr03	35742462	GG	AA	AA	INTERGENIC		
SNP_18002_A_35742756	NC_021162.1	Ca_Kabuli_Chr03	35742756	AA	GG	GG	INTERGENIC		
SNP_18003_A_35742758	NC_021162.1	Ca_Kabuli_Chr03	35742758	TT	AA	AA	INTERGENIC		
SNP_18004_A_35743235	NC_021162.1	Ca_Kabuli_Chr03	35743235	CC	TT	TT	INTERGENIC		
SNP_18005_A_35744150	NC_021162.1	Ca_Kabuli_Chr03	35744150	GG	TT	TT	INTERGENIC		
SNP_18006_A_35744285	NC_021162.1	Ca_Kabuli_Chr03	35744285	GG	AA	AA	INTERGENIC		
SNP_18007_A_35744346	NC_021162.1	Ca_Kabuli_Chr03	35744346	TT	CC	CC	INTERGENIC		
SNP_18008_A_35744354	NC_021162.1	Ca_Kabuli_Chr03	35744354	GG	CC	CC	INTERGENIC		
SNP_18009_A_35745593	NC_021162.1	Ca_Kabuli_Chr03	35745593	CC	AA	AA	INTERGENIC		
SNP_18010_A_35758196	NC_021162.1	Ca_Kabuli_Chr03	35758196	GG	CC	CC	INTRON	101504782	trafficking protein particle complex subunit 8
SNP_18012_A_35767634	NC_021162.1	Ca_Kabuli_Chr03	35767634	AA	GG	GG	URR	101504782	trafficking protein particle complex subunit 8
SNP_18013_A_35767852	NC_021162.1	Ca_Kabuli_Chr03	35767852	AA	GG	GG	URR	101504782	trafficking protein particle complex subunit 8
SNP_18014_A_35767854	NC_021162.1	Ca_Kabuli_Chr03	35767854	AA	GG	GG	URR	101504782	trafficking protein particle complex subunit 8
SNP_18015_A_35768040	NC_021162.1	Ca_Kabuli_Chr03	35768040	TT	CC	CC	DRR	101505099	syntaxin-121-like
SNP_18016_A_35768566	NC_021162.1	Ca_Kabuli_Chr03	35768566	AA	CC	CC	DRR	101505099	syntaxin-121-like
SNP_18018_A_35768801	NC_021162.1	Ca_Kabuli_Chr03	35768801	CC	TT	TT	DRR	101505099	syntaxin-121-like
SNP_18021_A_35772767	NC_021162.1	Ca_Kabuli_Chr03	35772767	CC	GG	GG	DRR	101505421	putative deoxyribonuclease TATDN1
SNP_18022_A_35773029	NC_021162.1	Ca_Kabuli_Chr03	35773029	AA	GG	GG	DRR	101505421	putative deoxyribonuclease TATDN1
SNP_18023_A_35773030	NC_021162.1	Ca_Kabuli_Chr03	35773030	TT	CC	CC	DRR	101505421	putative deoxyribonuclease TATDN1
SNP_18025_A_35779408	NC_021162.1	Ca_Kabuli_Chr03	35779408	AA	GG	GG	INTERGENIC		
SNP_18027_A_35779997	NC_021162.1	Ca_Kabuli_Chr03	35779997	CC	TT	TT	DRR	101506076	nuclear transcription factor Y subunit A-10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18028_A_35783245	NC_021162.1	Ca_Kabuli_Chr03	35783245	AA	CC	CC	INTRON	101506076	nuclear transcription factor Y subunit A-10-like
SNP_18031_A_35784669	NC_021162.1	Ca_Kabuli_Chr03	35784669	AA	GG	GG	INTRON	101506076	nuclear transcription factor Y subunit A-10-like
SNP_18033_A_35786891	NC_021162.1	Ca_Kabuli_Chr03	35786891	AA	TT	TT	URR	101506076	nuclear transcription factor Y subunit A-10-like
SNP_18035_A_35789323	NC_021162.1	Ca_Kabuli_Chr03	35789323	TT	CC	CC	INTERGENIC		
SNP_18036_A_35790393	NC_021162.1	Ca_Kabuli_Chr03	35790393	CC	AA	AA	INTERGENIC		
SNP_18037_A_35790420	NC_021162.1	Ca_Kabuli_Chr03	35790420	AA	GG	GG	INTERGENIC		
SNP_18038_A_35794095	NC_021162.1	Ca_Kabuli_Chr03	35794095	AA	TT	TT	INTERGENIC		
SNP_18039_A_35795289	NC_021162.1	Ca_Kabuli_Chr03	35795289	GG	AA	AA	INTERGENIC		
SNP_18041_A_35799636	NC_021162.1	Ca_Kabuli_Chr03	35799636	CC	TT	TT	INTERGENIC		
SNP_18043_A_35800354	NC_021162.1	Ca_Kabuli_Chr03	35800354	GG	AA	AA	INTERGENIC		
SNP_18044_A_35801000	NC_021162.1	Ca_Kabuli_Chr03	35801000	TT	CC	CC	DRR	101506391	uncharacterized protein At5g39865-like
SNP_18045_A_35801398	NC_021162.1	Ca_Kabuli_Chr03	35801398	AA	GG	GG	DRR	101506391	uncharacterized protein At5g39865-like
SNP_18046_A_35801401	NC_021162.1	Ca_Kabuli_Chr03	35801401	AA	GG	GG	DRR	101506391	uncharacterized protein At5g39865-like
SNP_18048_A_35801780	NC_021162.1	Ca_Kabuli_Chr03	35801780	CC	TT	TT	URR	101506391	uncharacterized protein At5g39865-like
SNP_18049_A_35803112	NC_021162.1	Ca_Kabuli_Chr03	35803112	TT	GG	GG	URR	101506391	uncharacterized protein At5g39865-like
SNP_18050_A_35804115	NC_021162.1	Ca_Kabuli_Chr03	35804115	AA	GG	GG	URR	101506391	uncharacterized protein At5g39865-like
SNP_18051_A_35807265	NC_021162.1	Ca_Kabuli_Chr03	35807265	TT	CC	CC	INTERGENIC		
SNP_18054_A_35811462	NC_021162.1	Ca_Kabuli_Chr03	35811462	CC	TT	TT	URR	101506722	uncharacterized LOC101506722
SNP_18056_A_35811476	NC_021162.1	Ca_Kabuli_Chr03	35811476	AA	GG	GG	URR	101506722	uncharacterized LOC101506722
SNP_18057_A_35811492	NC_021162.1	Ca_Kabuli_Chr03	35811492	CC	TT	TT	URR	101506722	uncharacterized LOC101506722
SNP_18058_A_35812541	NC_021162.1	Ca_Kabuli_Chr03	35812541	GG	TT	TT	URR	101506722	uncharacterized LOC101506722
SNP_18059_A_35812872	NC_021162.1	Ca_Kabuli_Chr03	35812872	CC	AA	AA	INTERGENIC		

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SNP_18060_A_35815620	NC_021162.1	Ca_Kabuli_Chr03	35815620	TT	AA	AA	INTERGENIC		
SNP_18061_A_35817363	NC_021162.1	Ca_Kabuli_Chr03	35817363	GG	AA	AA	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18062_A_35817623	NC_021162.1	Ca_Kabuli_Chr03	35817623	GG	TT	TT	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18063_A_35817624	NC_021162.1	Ca_Kabuli_Chr03	35817624	GG	AA	AA	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18064_A_35817658	NC_021162.1	Ca_Kabuli_Chr03	35817658	GG	TT	TT	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18065_A_35817704	NC_021162.1	Ca_Kabuli_Chr03	35817704	GG	AA	AA	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18066_A_35817818	NC_021162.1	Ca_Kabuli_Chr03	35817818	AA	GG	GG	DRR	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18067_A_35822107	NC_021162.1	Ca_Kabuli_Chr03	35822107	TT	AA	AA	INTRON	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18068_A_35823916	NC_021162.1	Ca_Kabuli_Chr03	35823916	GG	AA	AA	INTRON	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18069_A_35824440	NC_021162.1	Ca_Kabuli_Chr03	35824440	AA	GG	GG	INTRON	101507058	ubiquitin carboxyl-terminal hydrolase 8-like
SNP_18070_A_35828993	NC_021162.1	Ca_Kabuli_Chr03	35828993	CC	TT	TT	INTERGENIC		
SNP_18071_A_35832185	NC_021162.1	Ca_Kabuli_Chr03	35832185	TT	AA	AA	INTRON	101507374	uncharacterized LOC101507374
SNP_18073_A_35833520	NC_021162.1	Ca_Kabuli_Chr03	35833520	AA	GG	GG	URR	101507895	dihydroneopterin aldolase 2-like
SNP_18074_A_35836339	NC_021162.1	Ca_Kabuli_Chr03	35836339	GG	AA	AA	INTERGENIC		
SNP_18075_A_35836954	NC_021162.1	Ca_Kabuli_Chr03	35836954	AA	GG	GG	INTERGENIC		
SNP_18076_A_35837466	NC_021162.1	Ca_Kabuli_Chr03	35837466	GG	AA	AA	INTRON	101507374	uncharacterized LOC101507374
SNP_18077_A_35839332	NC_021162.1	Ca_Kabuli_Chr03	35839332	TT	AA	AA	URR	101507374	uncharacterized LOC101507374
SNP_18078_A_35839702	NC_021162.1	Ca_Kabuli_Chr03	35839702	AA	GG	GG	DRR	101508435	uncharacterized LOC101508435
SNP_18079_A_35841677	NC_021162.1	Ca_Kabuli_Chr03	35841677	AA	TT	TT	INTERGENIC		
SNP_18080_A_35841707	NC_021162.1	Ca_Kabuli_Chr03	35841707	CC	TT	TT	INTERGENIC		
SNP_18081_A_35842559	NC_021162.1	Ca_Kabuli_Chr03	35842559	GG	TT	TT	INTERGENIC		
SNP_18082_A_35844819	NC_021162.1	Ca_Kabuli_Chr03	35844819	AA	GG	GG	INTRON	101508435	uncharacterized LOC101508435

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18083_A_35846182	NC_021162.1	Ca_Kabuli_Chr03	35846182	GG	TT	TT	INTRON	101508435	uncharacterized LOC101508435
SNP_18084_A_35847625	NC_021162.1	Ca_Kabuli_Chr03	35847625	AA	GG	GG	URR	101508435	uncharacterized LOC101508435
SNP_18085_A_35848340	NC_021162.1	Ca_Kabuli_Chr03	35848340	TT	GG	GG	URR	101508435	uncharacterized LOC101508435
SNP_18086_A_35848643	NC_021162.1	Ca_Kabuli_Chr03	35848643	AA	GG	GG	URR	101508435	uncharacterized LOC101508435
SNP_18087_A_35850568	NC_021162.1	Ca_Kabuli_Chr03	35850568	GG	TT	TT	INTERGENIC		
SNP_18088_A_35850854	NC_021162.1	Ca_Kabuli_Chr03	35850854	TT	CC	CC	INTERGENIC		
SNP_18093_A_35860334	NC_021162.1	Ca_Kabuli_Chr03	35860334	GG	AA	AA	URR	101488611	calcium-dependent protein kinase 2
SNP_18094_A_35862103	NC_021162.1	Ca_Kabuli_Chr03	35862103	CC	TT	TT	INTERGENIC		
SNP_18096_A_35869928	NC_021162.1	Ca_Kabuli_Chr03	35869928	TT	AA	AA	DRR	101509588	fasciclin-like arabinogalactan protein 16
SNP_18097_A_35873079	NC_021162.1	Ca_Kabuli_Chr03	35873079	CC	GG	GG	URR	101509588	fasciclin-like arabinogalactan protein 16
SNP_18098_A_35873086	NC_021162.1	Ca_Kabuli_Chr03	35873086	CC	TT	TT	URR	101509588	fasciclin-like arabinogalactan protein 16
SNP_18100_A_35878035	NC_021162.1	Ca_Kabuli_Chr03	35878035	GG	CC	CC	INTRON	101510235	E3 ubiquitin-protein ligase RHF2A-like
SNP_18101_A_35879164	NC_021162.1	Ca_Kabuli_Chr03	35879164	GG	TT	TT	URR	101510235	E3 ubiquitin-protein ligase RHF2A-like
SNP_18102_A_35879734	NC_021162.1	Ca_Kabuli_Chr03	35879734	CC	TT	TT	URR	101510235	E3 ubiquitin-protein ligase RHF2A-like
SNP_18103_A_35880776	NC_021162.1	Ca_Kabuli_Chr03	35880776	CC	AA	AA	INTRON	101510569	Unknown function
SNP_18104_A_35883408	NC_021162.1	Ca_Kabuli_Chr03	35883408	GG	TT	TT	URR	101510569	Unknown function
SNP_18105_A_35883639	NC_021162.1	Ca_Kabuli_Chr03	35883639	GG	TT	TT	URR	101510569	Unknown function
SNP_18106_A_35883649	NC_021162.1	Ca_Kabuli_Chr03	35883649	TT	CC	CC	URR	101510569	Unknown function
SNP_18107_A_35885255	NC_021162.1	Ca_Kabuli_Chr03	35885255	AA	TT	TT	INTERGENIC		
SNP_18108_A_35885466	NC_021162.1	Ca_Kabuli_Chr03	35885466	AA	CC	CC	INTERGENIC		
SNP_18111_A_35894240	NC_021162.1	Ca_Kabuli_Chr03	35894240	CC	TT	TT	INTERGENIC		
SNP_18113_A_35894791	NC_021162.1	Ca_Kabuli_Chr03	35894791	CC	TT	TT	DRR	101511111	uncharacterized LOC101511111

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SNP_18114_A_35894793	NC_021162.1	Ca_Kabuli_Chr03	35894793	GG	AA	AA	DRR	101511111	uncharacterized LOC101511111
SNP_18116_A_35895372	NC_021162.1	Ca_Kabuli_Chr03	35895372	AA	GG	GG	INTERGENIC		
SNP_18117_A_35895415	NC_021162.1	Ca_Kabuli_Chr03	35895415	TT	CC	CC	INTERGENIC		
SNP_18118_A_35898581	NC_021162.1	Ca_Kabuli_Chr03	35898581	CC	TT	TT	INTERGENIC		
SNP_18119_A_35898591	NC_021162.1	Ca_Kabuli_Chr03	35898591	AA	GG	GG	INTERGENIC		
SNP_18120_A_35898948	NC_021162.1	Ca_Kabuli_Chr03	35898948	TT	CC	CC	INTERGENIC		
SNP_18121_A_35898980	NC_021162.1	Ca_Kabuli_Chr03	35898980	GG	AA	AA	INTERGENIC		
SNP_18122_A_35902635	NC_021162.1	Ca_Kabuli_Chr03	35902635	GG	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18123_A_35902641	NC_021162.1	Ca_Kabuli_Chr03	35902641	GG	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18124_A_35902656	NC_021162.1	Ca_Kabuli_Chr03	35902656	CC	TT	TT	INTRON	101511748	ABC transporter G family member 22
SNP_18125_A_35902660	NC_021162.1	Ca_Kabuli_Chr03	35902660	GG	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18126_A_35903585	NC_021162.1	Ca_Kabuli_Chr03	35903585	GG	CC	CC	INTRON	101511748	ABC transporter G family member 22
SNP_18127_A_35903593	NC_021162.1	Ca_Kabuli_Chr03	35903593	TT	CC	CC	INTRON	101511748	ABC transporter G family member 22
SNP_18128_A_35903596	NC_021162.1	Ca_Kabuli_Chr03	35903596	TT	CC	CC	INTRON	101511748	ABC transporter G family member 22
SNP_18129_A_35903625	NC_021162.1	Ca_Kabuli_Chr03	35903625	CC	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18130_A_35906593	NC_021162.1	Ca_Kabuli_Chr03	35906593	TT	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18131_A_35906713	NC_021162.1	Ca_Kabuli_Chr03	35906713	AA	TT	TT	INTRON	101511748	ABC transporter G family member 22
SNP_18132_A_35910847	NC_021162.1	Ca_Kabuli_Chr03	35910847	GG	AA	AA	INTRON	101511748	ABC transporter G family member 22
SNP_18133_A_35911128	NC_021162.1	Ca_Kabuli_Chr03	35911128	GG	CC	CC	URR	101511748	ABC transporter G family member 22
SNP_18135_A_35911684	NC_021162.1	Ca_Kabuli_Chr03	35911684	TT	CC	CC	URR	101511748	ABC transporter G family member 22
SNP_18136_A_35911760	NC_021162.1	Ca_Kabuli_Chr03	35911760	TT	CC	CC	URR	101511748	ABC transporter G family member 22
SNP_18137_A_35911768	NC_021162.1	Ca_Kabuli_Chr03	35911768	TT	AA	AA	URR	101511748	ABC transporter G family member 22

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SNP_18138_A_35911796	NC_021162.1	Ca_Kabuli_Chr03	35911796	TT	CC	CC	URR	101511748	ABC transporter G family member 22
SNP_18139_A_35915220	NC_021162.1	Ca_Kabuli_Chr03	35915220	GG	AA	AA	INTERGENIC		
SNP_18140_A_35915255	NC_021162.1	Ca_Kabuli_Chr03	35915255	GG	TT	TT	INTERGENIC		
SNP_18142_A_35918645	NC_021162.1	Ca_Kabuli_Chr03	35918645	TT	CC	CC	DRR	101513139	protein downstream neighbor of Son
SNP_18143_A_35921998	NC_021162.1	Ca_Kabuli_Chr03	35921998	TT	CC	CC	INTRON	101513139	protein downstream neighbor of Son
SNP_18144_A_35923206	NC_021162.1	Ca_Kabuli_Chr03	35923206	AA	GG	GG	INTRON	101513139	protein downstream neighbor of Son
SNP_18145_A_35924227	NC_021162.1	Ca_Kabuli_Chr03	35924227	TT	AA	AA	INTRON	101513139	protein downstream neighbor of Son
SNP_18146_A_35925039	NC_021162.1	Ca_Kabuli_Chr03	35925039	TT	CC	CC	INTERGENIC		
SNP_18147_A_35928060	NC_021162.1	Ca_Kabuli_Chr03	35928060	AA	GG	GG	URR	101513139	protein downstream neighbor of Son
SNP_18148_A_35928393	NC_021162.1	Ca_Kabuli_Chr03	35928393	AA	TT	TT	URR	101513139	protein downstream neighbor of Son
SNP_18149_A_35928524	NC_021162.1	Ca_Kabuli_Chr03	35928524	AA	GG	GG	URR	101513139	protein downstream neighbor of Son
SNP_18150_A_35928566	NC_021162.1	Ca_Kabuli_Chr03	35928566	TT	CC	CC	URR	101513139	protein downstream neighbor of Son
SNP_18151_A_35928590	NC_021162.1	Ca_Kabuli_Chr03	35928590	TT	CC	CC	URR	101513139	protein downstream neighbor of Son
SNP_18153_A_35929084	NC_021162.1	Ca_Kabuli_Chr03	35929084	CC	TT	TT	DRR	101513466	pentatricopeptide repeat-containing protein At5g06540
SNP_18154_A_35932462	NC_021162.1	Ca_Kabuli_Chr03	35932462	CC	AA	AA	DRR	101513774	F-box protein At5g06550
SNP_18155_A_35935793	NC_021162.1	Ca_Kabuli_Chr03	35935793	AA	CC	CC	DRR	101514115	myosin-binding protein 7-like
SNP_18156_A_35936784	NC_021162.1	Ca_Kabuli_Chr03	35936784	AA	GG	GG	URR	101513774	F-box protein At5g06550
SNP_18157_A_35936797	NC_021162.1	Ca_Kabuli_Chr03	35936797	AA	TT	TT	URR	101513774	F-box protein At5g06550
SNP_18158_A_35941626	NC_021162.1	Ca_Kabuli_Chr03	35941626	CC	TT	TT	INTERGENIC		
SNP_18159_A_35942301	NC_021162.1	Ca_Kabuli_Chr03	35942301	CC	AA	AA	INTERGENIC		
SNP_18160_A_35942305	NC_021162.1	Ca_Kabuli_Chr03	35942305	CC	TT	TT	INTERGENIC		
SNP_18161_A_35942348	NC_021162.1	Ca_Kabuli_Chr03	35942348	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18162_A_35946667	NC_021162.1	Ca_Kabuli_Chr03	35946667	AA	GG	GG	INTRON	101514440	60S ribosomal protein L35a-1-like
SNP_18163_A_35947846	NC_021162.1	Ca_Kabuli_Chr03	35947846	AA	TT	TT	DRR	101514440	60S ribosomal protein L35a-1-like
SNP_18165_A_35948139	NC_021162.1	Ca_Kabuli_Chr03	35948139	AA	TT	TT	URR	101514440	60S ribosomal protein L35a-1-like
SNP_18166_A_35951326	NC_021162.1	Ca_Kabuli_Chr03	35951326	TT	AA	AA	INTERGENIC		
SNP_18167_A_35954073	NC_021162.1	Ca_Kabuli_Chr03	35954073	TT	CC	CC	INTERGENIC		
SNP_18168_A_35954141	NC_021162.1	Ca_Kabuli_Chr03	35954141	GG	CC	CC	INTERGENIC		
SNP_18169_A_35954187	NC_021162.1	Ca_Kabuli_Chr03	35954187	CC	TT	TT	INTERGENIC		
SNP_18170_A_35954352	NC_021162.1	Ca_Kabuli_Chr03	35954352	TT	CC	CC	INTERGENIC		
SNP_18171_A_35959640	NC_021162.1	Ca_Kabuli_Chr03	35959640	TT	CC	CC	INTRON	101514764	probable carboxylesterase 15
SNP_18172_A_35959668	NC_021162.1	Ca_Kabuli_Chr03	35959668	TT	AA	AA	INTRON	101514764	probable carboxylesterase 15
SNP_18173_A_35960018	NC_021162.1	Ca_Kabuli_Chr03	35960018	AA	TT	TT	INTRON	101514764	probable carboxylesterase 15
SNP_18176_A_35963558	NC_021162.1	Ca_Kabuli_Chr03	35963558	TT	GG	GG	URR	101514764	probable carboxylesterase 15
SNP_18177_A_35965502	NC_021162.1	Ca_Kabuli_Chr03	35965502	AA	GG	GG	INTERGENIC		
SNP_18178_A_35965794	NC_021162.1	Ca_Kabuli_Chr03	35965794	AA	GG	GG	INTERGENIC		
SNP_18179_A_35965831	NC_021162.1	Ca_Kabuli_Chr03	35965831	AA	CC	CC	INTERGENIC		
SNP_18180_A_35966139	NC_021162.1	Ca_Kabuli_Chr03	35966139	CC	TT	TT	INTERGENIC		
SNP_18181_A_35968176	NC_021162.1	Ca_Kabuli_Chr03	35968176	AA	TT	TT	DRR	101515089	D-lactate dehydrogenase [cytochrome], mitochondrial
SNP_18182_A_35968932	NC_021162.1	Ca_Kabuli_Chr03	35968932	AA	GG	GG	DRR	101515089	D-lactate dehydrogenase [cytochrome], mitochondrial
SNP_18186_A_35977041	NC_021162.1	Ca_Kabuli_Chr03	35977041	CC	TT	TT	INTRON	101515089	D-lactate dehydrogenase [cytochrome], mitochondrial
SNP_18188_A_35982741	NC_021162.1	Ca_Kabuli_Chr03	35982741	AA	CC	CC	DRR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18189_A_35982754	NC_021162.1	Ca_Kabuli_Chr03	35982754	CC	TT	TT	DRR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18190_A_35982772	NC_021162.1	Ca_Kabuli_Chr03	35982772	TT	CC	CC	DRR	101489285	probable E3 ubiquitin-protein ligase BAH1-like

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SNP_18191_A_35983006	NC_021162.1	Ca_Kabuli_Chr03	35983006	TT	CC	CC	INTRON	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18192_A_35987871	NC_021162.1	Ca_Kabuli_Chr03	35987871	GG	CC	CC	URR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18193_A_35988044	NC_021162.1	Ca_Kabuli_Chr03	35988044	AA	TT	TT	URR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18194_A_35988060	NC_021162.1	Ca_Kabuli_Chr03	35988060	TT	GG	GG	URR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18195_A_35988085	NC_021162.1	Ca_Kabuli_Chr03	35988085	AA	GG	GG	URR	101489285	probable E3 ubiquitin-protein ligase BAH1-like
SNP_18197_A_35991024	NC_021162.1	Ca_Kabuli_Chr03	35991024	AA	GG	GG	SYNONYMOUS_CODING	101515747	uncharacterized LOC101515747
SNP_18198_A_35992486	NC_021162.1	Ca_Kabuli_Chr03	35992486	AA	GG	GG	URR	101515747	uncharacterized LOC101515747
SNP_18199_A_35993606	NC_021162.1	Ca_Kabuli_Chr03	35993606	TT	CC	CC	URR	101515747	uncharacterized LOC101515747
SNP_18200_A_35993630	NC_021162.1	Ca_Kabuli_Chr03	35993630	CC	AA	AA	URR	101515747	uncharacterized LOC101515747
SNP_18201_A_35993631	NC_021162.1	Ca_Kabuli_Chr03	35993631	AA	GG	GG	URR	101515747	uncharacterized LOC101515747
SNP_18202_A_35993741	NC_021162.1	Ca_Kabuli_Chr03	35993741	GG	AA	AA	INTERGENIC		
SNP_18203_A_35994108	NC_021162.1	Ca_Kabuli_Chr03	35994108	AA	GG	GG	DRR	101488510	proton-coupled amino acid transporter 3
SNP_18204_A_35994154	NC_021162.1	Ca_Kabuli_Chr03	35994154	AA	GG	GG	DRR	101488510	proton-coupled amino acid transporter 3
SNP_18206_A_35995895	NC_021162.1	Ca_Kabuli_Chr03	35995895	CC	GG	GG	INTERGENIC		
SNP_18207_A_35998725	NC_021162.1	Ca_Kabuli_Chr03	35998725	CC	TT	TT	URR	101488510	proton-coupled amino acid transporter 3
SNP_18208_A_35999930	NC_021162.1	Ca_Kabuli_Chr03	35999930	TT	CC	CC	DRR	101489280	probable glutamate carboxypeptidase 2
SNP_18209_A_36000012	NC_021162.1	Ca_Kabuli_Chr03	36000012	AA	TT	TT	DRR	101489280	probable glutamate carboxypeptidase 2
SNP_18210_A_36000018	NC_021162.1	Ca_Kabuli_Chr03	36000018	CC	TT	TT	DRR	101489280	probable glutamate carboxypeptidase 2
SNP_18211_A_36000214	NC_021162.1	Ca_Kabuli_Chr03	36000214	GG	AA	AA	DRR	101489280	probable glutamate carboxypeptidase 2
SNP_18212_A_36003029	NC_021162.1	Ca_Kabuli_Chr03	36003029	GG	TT	TT	INTERGENIC		
SNP_18213_A_36003060	NC_021162.1	Ca_Kabuli_Chr03	36003060	GG	AA	AA	INTERGENIC		
SNP_18214_A_36006161	NC_021162.1	Ca_Kabuli_Chr03	36006161	GG	CC	CC	INTERGENIC		

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SNP_18215_A_36006240	NC_021162.1	Ca_Kabuli_Chr03	36006240	TT	AA	AA	INTERGENIC		
SNP_18216_A_36013761	NC_021162.1	Ca_Kabuli_Chr03	36013761	AA	GG	GG	DRR	101489602	MATH domain and coiled-coil domain-containing protein At3g58370-like
SNP_18217_A_36015430	NC_021162.1	Ca_Kabuli_Chr03	36015430	CC	TT	TT	INTERGENIC		
SNP_18218_A_36015795	NC_021162.1	Ca_Kabuli_Chr03	36015795	GG	AA	AA	INTERGENIC		
SNP_18219_A_36016090	NC_021162.1	Ca_Kabuli_Chr03	36016090	GG	CC	CC	INTERGENIC		
SNP_18221_A_36016493	NC_021162.1	Ca_Kabuli_Chr03	36016493	TT	AA	AA	INTERGENIC		
SNP_18222_A_36016497	NC_021162.1	Ca_Kabuli_Chr03	36016497	TT	AA	AA	INTERGENIC		
SNP_18223_A_36018234	NC_021162.1	Ca_Kabuli_Chr03	36018234	TT	GG	GG	URR	101489602	MATH domain and coiled-coil domain-containing protein At3g58370-like
SNP_18225_A_36019556	NC_021162.1	Ca_Kabuli_Chr03	36019556	AA	TT	TT	URR	101490263	Unknown function
SNP_18226_A_36019564	NC_021162.1	Ca_Kabuli_Chr03	36019564	TT	GG	GG	URR	101490263	Unknown function
SNP_18227_A_36019591	NC_021162.1	Ca_Kabuli_Chr03	36019591	AA	CC	CC	URR	101490263	Unknown function
SNP_18230_A_36021278	NC_021162.1	Ca_Kabuli_Chr03	36021278	AA	TT	TT	INTERGENIC		
SNP_18231_A_36025714	NC_021162.1	Ca_Kabuli_Chr03	36025714	AA	TT	TT	URR	101490581	MATH domain and coiled-coil domain-containing protein At3g58360-like
SNP_18232_A_36025733	NC_021162.1	Ca_Kabuli_Chr03	36025733	CC	TT	TT	URR	101490581	MATH domain and coiled-coil domain-containing protein At3g58360-like
SNP_18233_A_36025964	NC_021162.1	Ca_Kabuli_Chr03	36025964	TT	CC	CC	URR	101490581	MATH domain and coiled-coil domain-containing protein At3g58360-like
SNP_18234_A_36027916	NC_021162.1	Ca_Kabuli_Chr03	36027916	TT	AA	AA	INTERGENIC		
SNP_18235_A_36031003	NC_021162.1	Ca_Kabuli_Chr03	36031003	GG	TT	TT	INTERGENIC		
SNP_18236_A_36031004	NC_021162.1	Ca_Kabuli_Chr03	36031004	GG	TT	TT	INTERGENIC		
SNP_18237_A_36031397	NC_021162.1	Ca_Kabuli_Chr03	36031397	CC	AA	AA	INTERGENIC		
SNP_18238_A_36031559	NC_021162.1	Ca_Kabuli_Chr03	36031559	AA	GG	GG	INTERGENIC		
SNP_18239_A_36032472	NC_021162.1	Ca_Kabuli_Chr03	36032472	GG	AA	AA	INTERGENIC		
SNP_18240_A_36032483	NC_021162.1	Ca_Kabuli_Chr03	36032483	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18242_A_36032817	NC_021162.1	Ca_Kabuli_Chr03	36032817	AA	GG	GG	INTERGENIC		
SNP_18243_A_36035630	NC_021162.1	Ca_Kabuli_Chr03	36035630	AA	GG	GG	INTRON	101489924	uncharacterized protein At3g58460
SNP_18244_A_36036243	NC_021162.1	Ca_Kabuli_Chr03	36036243	GG	AA	AA	INTRON	101489924	uncharacterized protein At3g58460
SNP_18247_A_36041210	NC_021162.1	Ca_Kabuli_Chr03	36041210	TT	CC	CC	URR	101489924	uncharacterized protein At3g58460
SNP_18248_A_36041235	NC_021162.1	Ca_Kabuli_Chr03	36041235	TT	AA	AA	URR	101489924	uncharacterized protein At3g58460
SNP_18249_A_36041263	NC_021162.1	Ca_Kabuli_Chr03	36041263	CC	TT	TT	URR	101489924	uncharacterized protein At3g58460
SNP_18250_A_36041395	NC_021162.1	Ca_Kabuli_Chr03	36041395	AA	TT	TT	URR	101489924	uncharacterized protein At3g58460
SNP_18251_A_36041396	NC_021162.1	Ca_Kabuli_Chr03	36041396	AA	GG	GG	URR	101489924	uncharacterized protein At3g58460
SNP_18252_A_36042923	NC_021162.1	Ca_Kabuli_Chr03	36042923	GG	AA	AA	URR	101489924	uncharacterized protein At3g58460
SNP_18253_A_36042938	NC_021162.1	Ca_Kabuli_Chr03	36042938	AA	GG	GG	URR	101489924	uncharacterized protein At3g58460
SNP_18254_A_36043125	NC_021162.1	Ca_Kabuli_Chr03	36043125	GG	AA	AA	INTERGENIC		
SNP_18256_A_36043225	NC_021162.1	Ca_Kabuli_Chr03	36043225	CC	TT	TT	INTERGENIC		
SNP_18257_A_36043231	NC_021162.1	Ca_Kabuli_Chr03	36043231	TT	AA	AA	INTERGENIC		
SNP_18258_A_36043243	NC_021162.1	Ca_Kabuli_Chr03	36043243	GG	TT	TT	INTERGENIC		
SNP_18259_A_36043244	NC_021162.1	Ca_Kabuli_Chr03	36043244	GG	AA	AA	INTERGENIC		
SNP_18260_A_36043528	NC_021162.1	Ca_Kabuli_Chr03	36043528	GG	TT	TT	INTERGENIC		
SNP_18261_A_36043569	NC_021162.1	Ca_Kabuli_Chr03	36043569	TT	GG	GG	INTERGENIC		
SNP_18262_A_36043690	NC_021162.1	Ca_Kabuli_Chr03	36043690	CC	TT	TT	INTERGENIC		
SNP_18263_A_36043938	NC_021162.1	Ca_Kabuli_Chr03	36043938	TT	CC	CC	INTERGENIC		
SNP_18264_A_36043981	NC_021162.1	Ca_Kabuli_Chr03	36043981	AA	TT	TT	INTERGENIC		
SNP_18265_A_36044031	NC_021162.1	Ca_Kabuli_Chr03	36044031	AA	GG	GG	INTERGENIC		
SNP_18266_A_36045639	NC_021162.1	Ca_Kabuli_Chr03	36045639	CC	GG	GG	DRR	101490257	calcium homeostasis endoplasmic reticulum protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18268_A_36046495	NC_021162.1	Ca_Kabuli_Chr03	36046495	AA	TT	TT	INTRON	101490257	calcium homeostasis endoplasmic reticulum protein
SNP_18269_A_36051425	NC_021162.1	Ca_Kabuli_Chr03	36051425	TT	CC	CC	URR	101490257	calcium homeostasis endoplasmic reticulum protein
SNP_18270_A_36051828	NC_021162.1	Ca_Kabuli_Chr03	36051828	CC	TT	TT	URR	101490257	calcium homeostasis endoplasmic reticulum protein
SNP_18271_A_36053008	NC_021162.1	Ca_Kabuli_Chr03	36053008	AA	TT	TT	INTERGENIC		
SNP_18272_A_36053009	NC_021162.1	Ca_Kabuli_Chr03	36053009	GG	AA	AA	INTERGENIC		
SNP_18273_A_36053229	NC_021162.1	Ca_Kabuli_Chr03	36053229	GG	CC	CC	INTERGENIC		
SNP_18274_A_36056221	NC_021162.1	Ca_Kabuli_Chr03	36056221	TT	CC	CC	DRR	101490576	pre-mRNA-splicing factor prp12
SNP_18275_A_36061541	NC_021162.1	Ca_Kabuli_Chr03	36061541	GG	TT	TT	INTRON	101490576	pre-mRNA-splicing factor prp12
SNP_18276_A_36067893	NC_021162.1	Ca_Kabuli_Chr03	36067893	GG	AA	AA	INTERGENIC		
SNP_18277_A_36074420	NC_021162.1	Ca_Kabuli_Chr03	36074420	TT	CC	CC	INTERGENIC		
SNP_18279_A_36076102	NC_021162.1	Ca_Kabuli_Chr03	36076102	TT	CC	CC	URR	101491327	hemK methyltransferase family member 1
SNP_18280_A_36076207	NC_021162.1	Ca_Kabuli_Chr03	36076207	AA	GG	GG	URR	101491327	hemK methyltransferase family member 1
SNP_18281_A_36081375	NC_021162.1	Ca_Kabuli_Chr03	36081375	CC	TT	TT	INTERGENIC		
SNP_18284_A_36090068	NC_021162.1	Ca_Kabuli_Chr03	36090068	CC	TT	TT	URR	101491960	lipid phosphate phosphatase delta
SNP_18285_A_36091903	NC_021162.1	Ca_Kabuli_Chr03	36091903	GG	AA	AA	INTERGENIC		
SNP_18286_A_36096458	NC_021162.1	Ca_Kabuli_Chr03	36096458	TT	GG	GG	INTERGENIC		
SNP_18287_A_36096615	NC_021162.1	Ca_Kabuli_Chr03	36096615	TT	CC	CC	INTERGENIC		
SNP_18288_A_36096639	NC_021162.1	Ca_Kabuli_Chr03	36096639	CC	TT	TT	INTERGENIC		
SNP_18289_A_36096719	NC_021162.1	Ca_Kabuli_Chr03	36096719	GG	CC	CC	INTERGENIC		
SNP_18290_A_36097382	NC_021162.1	Ca_Kabuli_Chr03	36097382	TT	AA	AA	INTERGENIC		
SNP_18291_A_36097642	NC_021162.1	Ca_Kabuli_Chr03	36097642	AA	CC	CC	INTERGENIC		
SNP_18292_A_36098645	NC_021162.1	Ca_Kabuli_Chr03	36098645	GG	AA	AA	DRR	101492293	carbon catabolite repressor protein 4 homolog 2-like

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SNP_18293_A_36098854	NC_021162.1	Ca_Kabuli_Chr03	36098854	CC	AA	AA	DRR	101492293	carbon catabolite repressor protein 4 homolog 2-like
SNP_18294_A_36099089	NC_021162.1	Ca_Kabuli_Chr03	36099089	CC	GG	GG	DRR	101492293	carbon catabolite repressor protein 4 homolog 2-like
SNP_18296_A_36108615	NC_021162.1	Ca_Kabuli_Chr03	36108615	AA	CC	CC	INTERGENIC		
SNP_18297_A_36108956	NC_021162.1	Ca_Kabuli_Chr03	36108956	AA	CC	CC	INTERGENIC		
SNP_18300_A_36109414	NC_021162.1	Ca_Kabuli_Chr03	36109414	TT	CC	CC	DRR	101492631	60S ribosomal protein L21-1-like
SNP_18301_A_36110937	NC_021162.1	Ca_Kabuli_Chr03	36110937	AA	CC	CC	INTERGENIC		
SNP_18302_A_36111061	NC_021162.1	Ca_Kabuli_Chr03	36111061	TT	CC	CC	INTERGENIC		
SNP_18303_A_36112306	NC_021162.1	Ca_Kabuli_Chr03	36112306	CC	TT	TT	URR	101492631	60S ribosomal protein L21-1-like
SNP_18304_A_36114135	NC_021162.1	Ca_Kabuli_Chr03	36114135	CC	TT	TT	DRR	101493297	sister-chromatid cohesion protein 3
SNP_18305_A_36114530	NC_021162.1	Ca_Kabuli_Chr03	36114530	CC	AA	AA	DRR	101493297	sister-chromatid cohesion protein 3
SNP_18306_A_36114956	NC_021162.1	Ca_Kabuli_Chr03	36114956	AA	GG	GG	DRR	101493297	sister-chromatid cohesion protein 3
SNP_18307_A_36116181	NC_021162.1	Ca_Kabuli_Chr03	36116181	GG	AA	AA	URR	101492961	Unknown function
SNP_18308_A_36119592	NC_021162.1	Ca_Kabuli_Chr03	36119592	TT	CC	CC	NON_SYNONYMOUS_CODING	101493297	sister-chromatid cohesion protein 3
SNP_18309_A_36119602	NC_021162.1	Ca_Kabuli_Chr03	36119602	CC	AA	AA	NON_SYNONYMOUS_CODING	101493297	sister-chromatid cohesion protein 3
SNP_18311_A_36120523	NC_021162.1	Ca_Kabuli_Chr03	36120523	GG	AA	AA	INTRON	101493297	sister-chromatid cohesion protein 3
SNP_18313_A_36120860	NC_021162.1	Ca_Kabuli_Chr03	36120860	TT	AA	AA	INTRON	101493297	sister-chromatid cohesion protein 3
SNP_18314_A_36124338	NC_021162.1	Ca_Kabuli_Chr03	36124338	CC	TT	TT	INTRON	101493297	sister-chromatid cohesion protein 3
SNP_18315_A_36126832	NC_021162.1	Ca_Kabuli_Chr03	36126832	TT	AA	AA	INTERGENIC		
SNP_18316_A_36129592	NC_021162.1	Ca_Kabuli_Chr03	36129592	TT	AA	AA	DRR	101493618	NPL4-like protein 1
SNP_18317_A_36129641	NC_021162.1	Ca_Kabuli_Chr03	36129641	TT	CC	CC	DRR	101493618	NPL4-like protein 1
SNP_18319_A_36129711	NC_021162.1	Ca_Kabuli_Chr03	36129711	TT	CC	CC	DRR	101493618	NPL4-like protein 1
SNP_18320_A_36129760	NC_021162.1	Ca_Kabuli_Chr03	36129760	CC	TT	TT	DRR	101493618	NPL4-like protein 1

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SNP_18321_A_36129763	NC_021162.1	Ca_Kabuli_Chr03	36129763	TT	AA	AA	DRR	101493618	NPL4-like protein 1
SNP_18323_A_36129838	NC_021162.1	Ca_Kabuli_Chr03	36129838	AA	TT	TT	DRR	101493618	NPL4-like protein 1
SNP_18324_A_36133091	NC_021162.1	Ca_Kabuli_Chr03	36133091	TT	CC	CC	INTERGENIC		
SNP_18325_A_36135383	NC_021162.1	Ca_Kabuli_Chr03	36135383	CC	AA	AA	DRR	101493935	peroxidase 3-like
SNP_18326_A_36135407	NC_021162.1	Ca_Kabuli_Chr03	36135407	TT	GG	GG	DRR	101493935	peroxidase 3-like
SNP_18327_A_36135433	NC_021162.1	Ca_Kabuli_Chr03	36135433	AA	TT	TT	DRR	101493935	peroxidase 3-like
SNP_18330_A_36136597	NC_021162.1	Ca_Kabuli_Chr03	36136597	CC	GG	GG	URR	101493618	NPL4-like protein 1
SNP_18332_A_36138366	NC_021162.1	Ca_Kabuli_Chr03	36138366	CC	AA	AA	URR	101493935	peroxidase 3-like
SNP_18333_A_36138544	NC_021162.1	Ca_Kabuli_Chr03	36138544	TT	GG	GG	URR	101493935	peroxidase 3-like
SNP_18334_A_36138753	NC_021162.1	Ca_Kabuli_Chr03	36138753	TT	CC	CC	URR	101493935	peroxidase 3-like
SNP_18335_A_36138769	NC_021162.1	Ca_Kabuli_Chr03	36138769	GG	AA	AA	URR	101493935	peroxidase 3-like
SNP_18336_A_36139543	NC_021162.1	Ca_Kabuli_Chr03	36139543	AA	GG	GG	URR	101493935	peroxidase 3-like
SNP_18337_A_36139552	NC_021162.1	Ca_Kabuli_Chr03	36139552	TT	AA	AA	URR	101493935	peroxidase 3-like
SNP_18338_A_36139557	NC_021162.1	Ca_Kabuli_Chr03	36139557	CC	TT	TT	URR	101493935	peroxidase 3-like
SNP_18339_A_36140401	NC_021162.1	Ca_Kabuli_Chr03	36140401	AA	TT	TT	INTERGENIC		
SNP_18340_A_36141172	NC_021162.1	Ca_Kabuli_Chr03	36141172	GG	AA	AA	INTERGENIC		
SNP_18341_A_36144601	NC_021162.1	Ca_Kabuli_Chr03	36144601	GG	AA	AA	INTERGENIC		
SNP_18342_A_36144852	NC_021162.1	Ca_Kabuli_Chr03	36144852	AA	CC	CC	INTERGENIC		
SNP_18343_A_36144918	NC_021162.1	Ca_Kabuli_Chr03	36144918	TT	CC	CC	INTERGENIC		
SNP_18344_A_36147595	NC_021162.1	Ca_Kabuli_Chr03	36147595	CC	TT	TT	URR	101494259	rho GTPase-activating protein 2-like
SNP_18345_A_36147605	NC_021162.1	Ca_Kabuli_Chr03	36147605	TT	CC	CC	URR	101494259	rho GTPase-activating protein 2-like
SNP_18346_A_36147999	NC_021162.1	Ca_Kabuli_Chr03	36147999	AA	TT	TT	URR	101494570	uncharacterized LOC101494570

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SNP_18347_A_36148402	NC_021162.1	Ca_Kabuli_Chr03	36148402	CC	TT	TT	URR	101494570	uncharacterized LOC101494570
SNP_18349_A_36153178	NC_021162.1	Ca_Kabuli_Chr03	36153178	CC	TT	TT	INTERGENIC		
SNP_18350_A_36153916	NC_021162.1	Ca_Kabuli_Chr03	36153916	AA	TT	TT	DRR	101494886	RNA-binding protein BRN1
SNP_18351_A_36154520	NC_021162.1	Ca_Kabuli_Chr03	36154520	AA	CC	CC	INTRON	101494886	RNA-binding protein BRN1
SNP_18352_A_36162343	NC_021162.1	Ca_Kabuli_Chr03	36162343	TT	CC	CC	INTERGENIC		
SNP_18353_A_36162346	NC_021162.1	Ca_Kabuli_Chr03	36162346	TT	CC	CC	INTERGENIC		
SNP_18354_A_36162396	NC_021162.1	Ca_Kabuli_Chr03	36162396	TT	CC	CC	INTERGENIC		
SNP_18355_A_36162402	NC_021162.1	Ca_Kabuli_Chr03	36162402	TT	GG	GG	INTERGENIC		
SNP_18356_A_36162463	NC_021162.1	Ca_Kabuli_Chr03	36162463	CC	TT	TT	INTERGENIC		
SNP_18357_A_36163532	NC_021162.1	Ca_Kabuli_Chr03	36163532	CC	TT	TT	DRR	101495426	U1 small nuclear ribonucleoprotein C
SNP_18358_A_36163564	NC_021162.1	Ca_Kabuli_Chr03	36163564	TT	CC	CC	DRR	101495426	U1 small nuclear ribonucleoprotein C
SNP_18359_A_36166016	NC_021162.1	Ca_Kabuli_Chr03	36166016	TT	CC	CC	INTERGENIC		
SNP_18361_A_36170918	NC_021162.1	Ca_Kabuli_Chr03	36170918	TT	GG	GG	INTERGENIC		
SNP_18362_A_36173706	NC_021162.1	Ca_Kabuli_Chr03	36173706	AA	GG	GG	URR	101495959	uncharacterized LOC101495959
SNP_18363_A_36175964	NC_021162.1	Ca_Kabuli_Chr03	36175964	AA	GG	GG	DRR	101496624	uncharacterized LOC101496624
SNP_18364_A_36175968	NC_021162.1	Ca_Kabuli_Chr03	36175968	CC	GG	GG	DRR	101496624	uncharacterized LOC101496624
SNP_18365_A_36178723	NC_021162.1	Ca_Kabuli_Chr03	36178723	AA	TT	TT	URR	101496624	uncharacterized LOC101496624
SNP_18367_A_36178773	NC_021162.1	Ca_Kabuli_Chr03	36178773	AA	TT	TT	URR	101496624	uncharacterized LOC101496624
SNP_18368_A_36178984	NC_021162.1	Ca_Kabuli_Chr03	36178984	AA	TT	TT	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18369_A_36179041	NC_021162.1	Ca_Kabuli_Chr03	36179041	AA	GG	GG	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18370_A_36179101	NC_021162.1	Ca_Kabuli_Chr03	36179101	TT	CC	CC	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18371_A_36179105	NC_021162.1	Ca_Kabuli_Chr03	36179105	AA	GG	GG	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10

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SNP_18372_A_36179114	NC_021162.1	Ca_Kabuli_Chr03	36179114	AA	GG	GG	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18373_A_36179119	NC_021162.1	Ca_Kabuli_Chr03	36179119	GG	AA	AA	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18374_A_36179125	NC_021162.1	Ca_Kabuli_Chr03	36179125	GG	AA	AA	DRR	101496943	probable indole-3-pyruvate monooxygenase YUCCA10
SNP_18375_A_36179869	NC_021162.1	Ca_Kabuli_Chr03	36179869	AA	GG	GG	URR	101496624	uncharacterized LOC101496624
SNP_18376_A_36179885	NC_021162.1	Ca_Kabuli_Chr03	36179885	AA	GG	GG	URR	101496624	uncharacterized LOC101496624
SNP_18377_A_36180131	NC_021162.1	Ca_Kabuli_Chr03	36180131	AA	GG	GG	URR	101496624	uncharacterized LOC101496624
SNP_18378_A_36180349	NC_021162.1	Ca_Kabuli_Chr03	36180349	GG	AA	AA	URR	101496624	uncharacterized LOC101496624
SNP_18379_A_36182790	NC_021162.1	Ca_Kabuli_Chr03	36182790	GG	AA	AA	INTERGENIC		
SNP_18380_A_36182800	NC_021162.1	Ca_Kabuli_Chr03	36182800	GG	AA	AA	INTERGENIC		
SNP_18381_A_36185599	NC_021162.1	Ca_Kabuli_Chr03	36185599	TT	CC	CC	INTERGENIC		
SNP_18382_A_36185668	NC_021162.1	Ca_Kabuli_Chr03	36185668	TT	CC	CC	INTERGENIC		
SNP_18383_A_36185702	NC_021162.1	Ca_Kabuli_Chr03	36185702	TT	AA	AA	INTERGENIC		
SNP_18384_A_36186606	NC_021162.1	Ca_Kabuli_Chr03	36186606	TT	CC	CC	INTERGENIC		
SNP_18385_A_36186906	NC_021162.1	Ca_Kabuli_Chr03	36186906	AA	GG	GG	INTERGENIC		
SNP_18386_A_36192600	NC_021162.1	Ca_Kabuli_Chr03	36192600	AA	TT	TT	INTERGENIC		
SNP_18387_A_36192697	NC_021162.1	Ca_Kabuli_Chr03	36192697	GG	AA	AA	INTERGENIC		
SNP_18388_A_36192932	NC_021162.1	Ca_Kabuli_Chr03	36192932	TT	CC	CC	INTERGENIC		
SNP_18389_A_36193313	NC_021162.1	Ca_Kabuli_Chr03	36193313	AA	GG	GG	INTERGENIC		
SNP_18390_A_36193668	NC_021162.1	Ca_Kabuli_Chr03	36193668	CC	GG	GG	INTERGENIC		
SNP_18391_A_36195450	NC_021162.1	Ca_Kabuli_Chr03	36195450	TT	AA	AA	DRR	101497598	protein NETWORKED 3A-like
SNP_18393_A_36195509	NC_021162.1	Ca_Kabuli_Chr03	36195509	TT	CC	CC	DRR	101497598	protein NETWORKED 3A-like
SNP_18394_A_36198675	NC_021162.1	Ca_Kabuli_Chr03	36198675	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18397_A_36207628	NC_021162.1	Ca_Kabuli_Chr03	36207628	AA	GG	GG	INTRON	101498479	DNA ligase 1
SNP_18399_A_36207805	NC_021162.1	Ca_Kabuli_Chr03	36207805	GG	AA	AA	INTRON	101498479	DNA ligase 1
SNP_18401_A_36211500	NC_021162.1	Ca_Kabuli_Chr03	36211500	CC	TT	TT	DRR	101498827	CASP-like protein 1E1
SNP_18402_A_36211533	NC_021162.1	Ca_Kabuli_Chr03	36211533	GG	CC	CC	DRR	101498827	CASP-like protein 1E1
SNP_18403_A_36211536	NC_021162.1	Ca_Kabuli_Chr03	36211536	CC	AA	AA	DRR	101498827	CASP-like protein 1E1
SNP_18404_A_36211546	NC_021162.1	Ca_Kabuli_Chr03	36211546	CC	TT	TT	DRR	101498827	CASP-like protein 1E1
SNP_18406_A_36213848	NC_021162.1	Ca_Kabuli_Chr03	36213848	GG	AA	AA	URR	101498827	CASP-like protein 1E1
SNP_18407_A_36214839	NC_021162.1	Ca_Kabuli_Chr03	36214839	TT	AA	AA	URR	101498827	CASP-like protein 1E1
SNP_18408_A_36214926	NC_021162.1	Ca_Kabuli_Chr03	36214926	GG	AA	AA	URR	101498827	CASP-like protein 1E1
SNP_18409_A_36215221	NC_021162.1	Ca_Kabuli_Chr03	36215221	TT	CC	CC	DRR	101499146	zinc finger protein CONSTANS-LIKE 13
SNP_18410_A_36215249	NC_021162.1	Ca_Kabuli_Chr03	36215249	GG	AA	AA	DRR	101499146	zinc finger protein CONSTANS-LIKE 13
SNP_18411_A_36215664	NC_021162.1	Ca_Kabuli_Chr03	36215664	GG	CC	CC	DRR	101499146	zinc finger protein CONSTANS-LIKE 13
SNP_18412_A_36217378	NC_021162.1	Ca_Kabuli_Chr03	36217378	CC	TT	TT	INTERGENIC		
SNP_18413_A_36218034	NC_021162.1	Ca_Kabuli_Chr03	36218034	TT	CC	CC	INTERGENIC		
SNP_18416_A_36219067	NC_021162.1	Ca_Kabuli_Chr03	36219067	GG	AA	AA	INTERGENIC		
SNP_18417_A_36219318	NC_021162.1	Ca_Kabuli_Chr03	36219318	TT	CC	CC	INTERGENIC		
SNP_18419_A_36219354	NC_021162.1	Ca_Kabuli_Chr03	36219354	AA	GG	GG	INTERGENIC		
SNP_18421_A_36220512	NC_021162.1	Ca_Kabuli_Chr03	36220512	CC	TT	TT	URR	101499146	zinc finger protein CONSTANS-LIKE 13
SNP_18422_A_36220514	NC_021162.1	Ca_Kabuli_Chr03	36220514	TT	GG	GG	URR	101499146	zinc finger protein CONSTANS-LIKE 13
SNP_18423_A_36220762	NC_021162.1	Ca_Kabuli_Chr03	36220762	AA	CC	CC	DRR	101500194	membrane-anchored ubiquitin-fold protein 3-like
SNP_18424_A_36225920	NC_021162.1	Ca_Kabuli_Chr03	36225920	AA	GG	GG	URR	101500194	membrane-anchored ubiquitin-fold protein 3-like
SNP_18428_A_36228531	NC_021162.1	Ca_Kabuli_Chr03	36228531	TT	GG	GG	INTRON	101499860	40S ribosomal protein S15-4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18429_A_36228555	NC_021162.1	Ca_Kabuli_Chr03	36228555	CC	TT	TT	INTRON	101499860	40S ribosomal protein S15-4
SNP_18430_A_36228903	NC_021162.1	Ca_Kabuli_Chr03	36228903	AA	TT	TT	INTRON	101499860	40S ribosomal protein S15-4
SNP_18431_A_36228957	NC_021162.1	Ca_Kabuli_Chr03	36228957	GG	CC	CC	INTRON	101499860	40S ribosomal protein S15-4
SNP_18432_A_36228966	NC_021162.1	Ca_Kabuli_Chr03	36228966	TT	AA	AA	INTERGENIC		
SNP_18433_A_36228988	NC_021162.1	Ca_Kabuli_Chr03	36228988	AA	CC	CC	INTERGENIC		
SNP_18434_A_36229014	NC_021162.1	Ca_Kabuli_Chr03	36229014	TT	CC	CC	INTERGENIC		
SNP_18435_A_36229017	NC_021162.1	Ca_Kabuli_Chr03	36229017	AA	TT	TT	INTERGENIC		
SNP_18436_A_36229031	NC_021162.1	Ca_Kabuli_Chr03	36229031	GG	AA	AA	INTERGENIC		
SNP_18437_A_36229060	NC_021162.1	Ca_Kabuli_Chr03	36229060	GG	TT	TT	INTERGENIC		
SNP_18438_A_36230761	NC_021162.1	Ca_Kabuli_Chr03	36230761	TT	AA	AA	URR	101499860	40S ribosomal protein S15-4
SNP_18440_A_36230996	NC_021162.1	Ca_Kabuli_Chr03	36230996	GG	AA	AA	URR	101499860	40S ribosomal protein S15-4
SNP_18442_A_36233790	NC_021162.1	Ca_Kabuli_Chr03	36233790	CC	GG	GG	DRR	101500507	monothiol glutaredoxin-S11
SNP_18443_A_36233892	NC_021162.1	Ca_Kabuli_Chr03	36233892	AA	GG	GG	DRR	101500507	monothiol glutaredoxin-S11
SNP_18444_A_36239929	NC_021162.1	Ca_Kabuli_Chr03	36239929	TT	AA	AA	INTERGENIC		
SNP_18445_A_36239936	NC_021162.1	Ca_Kabuli_Chr03	36239936	TT	AA	AA	INTERGENIC		
SNP_18446_A_36240112	NC_021162.1	Ca_Kabuli_Chr03	36240112	AA	GG	GG	INTERGENIC		
SNP_18447_A_36240124	NC_021162.1	Ca_Kabuli_Chr03	36240124	CC	GG	GG	INTERGENIC		
SNP_18448_A_36240160	NC_021162.1	Ca_Kabuli_Chr03	36240160	TT	AA	AA	INTERGENIC		
SNP_18450_A_36241663	NC_021162.1	Ca_Kabuli_Chr03	36241663	GG	TT	TT	DRR	101501158	OTU domain-containing protein 6B
SNP_18451_A_36241940	NC_021162.1	Ca_Kabuli_Chr03	36241940	AA	GG	GG	DRR	101501158	OTU domain-containing protein 6B
SNP_18452_A_36241967	NC_021162.1	Ca_Kabuli_Chr03	36241967	TT	CC	CC	DRR	101501158	OTU domain-containing protein 6B
SNP_18453_A_36243149	NC_021162.1	Ca_Kabuli_Chr03	36243149	AA	CC	CC	NON_SYNONYMOUS_CODING	101501158	OTU domain-containing protein 6B

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18454_A_36246546	NC_021162.1	Ca_Kabuli_Chr03	36246546	AA	TT	TT	URR	101501158	OTU domain-containing protein 6B
SNP_18455_A_36249359	NC_021162.1	Ca_Kabuli_Chr03	36249359	AA	TT	TT	URR	101501469	monothiol glutaredoxin-S6
SNP_18458_A_36250883	NC_021162.1	Ca_Kabuli_Chr03	36250883	AA	GG	GG	URR	101501469	monothiol glutaredoxin-S6
SNP_18459_A_36263255	NC_021162.1	Ca_Kabuli_Chr03	36263255	GG	AA	AA	URR	101502431	BTB/POZ domain-containing protein At1g03010-like
SNP_18460_A_36267752	NC_021162.1	Ca_Kabuli_Chr03	36267752	TT	GG	GG	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18461_A_36267756	NC_021162.1	Ca_Kabuli_Chr03	36267756	TT	CC	CC	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18462_A_36267769	NC_021162.1	Ca_Kabuli_Chr03	36267769	TT	CC	CC	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18463_A_36267782	NC_021162.1	Ca_Kabuli_Chr03	36267782	CC	TT	TT	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18464_A_36269103	NC_021162.1	Ca_Kabuli_Chr03	36269103	CC	AA	AA	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18465_A_36269552	NC_021162.1	Ca_Kabuli_Chr03	36269552	TT	CC	CC	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18466_A_36270023	NC_021162.1	Ca_Kabuli_Chr03	36270023	GG	CC	CC	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18467_A_36271109	NC_021162.1	Ca_Kabuli_Chr03	36271109	TT	AA	AA	INTRON	101503168	peptide chain release factor APG3, chloroplastic
SNP_18468_A_36273837	NC_021162.1	Ca_Kabuli_Chr03	36273837	GG	AA	AA	UPSTREAM	SPATA20	Unknown function
SNP_18470_A_36274541	NC_021162.1	Ca_Kabuli_Chr03	36274541	CC	TT	TT	DRR	101503487	spermatogenesis-associated protein 20
SNP_18471_A_36279680	NC_021162.1	Ca_Kabuli_Chr03	36279680	CC	AA	AA	INTRON	SPATA20	Unknown function
SNP_18472_A_36279909	NC_021162.1	Ca_Kabuli_Chr03	36279909	CC	TT	TT	INTRON	SPATA20	Unknown function
SNP_18474_A_36286578	NC_021162.1	Ca_Kabuli_Chr03	36286578	GG	TT	TT	DOWNSTREAM	SPATA20	Unknown function
SNP_18476_A_36286650	NC_021162.1	Ca_Kabuli_Chr03	36286650	AA	GG	GG	DOWNSTREAM	SPATA20	Unknown function
SNP_18477_A_36286933	NC_021162.1	Ca_Kabuli_Chr03	36286933	CC	TT	TT	DOWNSTREAM	SPATA20	Unknown function
SNP_18478_A_36289930	NC_021162.1	Ca_Kabuli_Chr03	36289930	GG	CC	CC	INTERGENIC		
SNP_18479_A_36290211	NC_021162.1	Ca_Kabuli_Chr03	36290211	CC	TT	TT	INTERGENIC		
SNP_18480_A_36290215	NC_021162.1	Ca_Kabuli_Chr03	36290215	GG	AA	AA	INTERGENIC		

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SNP_18481_A_36290238	NC_021162.1	Ca_Kabuli_Chr03	36290238	CC	TT	TT	INTERGENIC		
SNP_18482_A_36290261	NC_021162.1	Ca_Kabuli_Chr03	36290261	TT	AA	AA	INTERGENIC		
SNP_18483_A_36290924	NC_021162.1	Ca_Kabuli_Chr03	36290924	TT	GG	GG	DRR	101503823	uncharacterized LOC101503823
SNP_18484_A_36293625	NC_021162.1	Ca_Kabuli_Chr03	36293625	CC	TT	TT	SYNONYMOUS_CODING	101503823	uncharacterized LOC101503823
SNP_18485_A_36293637	NC_021162.1	Ca_Kabuli_Chr03	36293637	CC	TT	TT	SYNONYMOUS_CODING	101503823	uncharacterized LOC101503823
SNP_18486_A_36295261	NC_021162.1	Ca_Kabuli_Chr03	36295261	TT	CC	CC	INTRON	101503823	uncharacterized LOC101503823
SNP_18488_A_36300066	NC_021162.1	Ca_Kabuli_Chr03	36300066	TT	CC	CC	INTERGENIC		
SNP_18489_A_36300094	NC_021162.1	Ca_Kabuli_Chr03	36300094	GG	AA	AA	INTERGENIC		
SNP_18490_A_36301651	NC_021162.1	Ca_Kabuli_Chr03	36301651	GG	TT	TT	INTERGENIC		
SNP_18491_A_36301861	NC_021162.1	Ca_Kabuli_Chr03	36301861	TT	CC	CC	INTERGENIC		
SNP_18492_A_36304148	NC_021162.1	Ca_Kabuli_Chr03	36304148	TT	CC	CC	INTERGENIC		
SNP_18493_A_36307966	NC_021162.1	Ca_Kabuli_Chr03	36307966	AA	GG	GG	DRR	101504783	40S ribosomal protein S26-1-like
SNP_18495_A_36308695	NC_021162.1	Ca_Kabuli_Chr03	36308695	TT	AA	AA	DRR	101504783	40S ribosomal protein S26-1-like
SNP_18496_A_36308700	NC_021162.1	Ca_Kabuli_Chr03	36308700	TT	CC	CC	DRR	101504783	40S ribosomal protein S26-1-like
SNP_18497_A_36308702	NC_021162.1	Ca_Kabuli_Chr03	36308702	CC	TT	TT	DRR	101504783	40S ribosomal protein S26-1-like
SNP_18499_A_36320329	NC_021162.1	Ca_Kabuli_Chr03	36320329	CC	TT	TT	INTRON	101505100	cullin-1
SNP_18500_A_36320333	NC_021162.1	Ca_Kabuli_Chr03	36320333	GG	AA	AA	INTRON	101505100	cullin-1
SNP_18501_A_36320548	NC_021162.1	Ca_Kabuli_Chr03	36320548	CC	TT	TT	INTRON	101505100	cullin-1
SNP_18503_A_36320623	NC_021162.1	Ca_Kabuli_Chr03	36320623	CC	AA	AA	INTRON	101505100	cullin-1
SNP_18504_A_36320650	NC_021162.1	Ca_Kabuli_Chr03	36320650	AA	TT	TT	INTRON	101505100	cullin-1
SNP_18505_A_36320657	NC_021162.1	Ca_Kabuli_Chr03	36320657	TT	AA	AA	INTRON	101505100	cullin-1
SNP_18506_A_36321089	NC_021162.1	Ca_Kabuli_Chr03	36321089	GG	TT	TT	INTRON	101505100	cullin-1

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SNP_18507_A_36321121	NC_021162.1	Ca_Kabuli_Chr03	36321121	AA	GG	GG	INTRON	101505100	cullin-1
SNP_18508_A_36321380	NC_021162.1	Ca_Kabuli_Chr03	36321380	AA	TT	TT	INTRON	101505100	cullin-1
SNP_18509_A_36321471	NC_021162.1	Ca_Kabuli_Chr03	36321471	TT	CC	CC	INTRON	101505100	cullin-1
SNP_18510_A_36321864	NC_021162.1	Ca_Kabuli_Chr03	36321864	GG	AA	AA	INTRON	101505100	cullin-1
SNP_18511_A_36322482	NC_021162.1	Ca_Kabuli_Chr03	36322482	CC	TT	TT	INTRON	101505100	cullin-1
SNP_18512_A_36323847	NC_021162.1	Ca_Kabuli_Chr03	36323847	AA	GG	GG	URR	101505100	cullin-1
SNP_18513_A_36327159	NC_021162.1	Ca_Kabuli_Chr03	36327159	TT	CC	CC	INTERGENIC		
SNP_18514_A_36327499	NC_021162.1	Ca_Kabuli_Chr03	36327499	TT	AA	AA	INTERGENIC		
SNP_18516_A_36331205	NC_021162.1	Ca_Kabuli_Chr03	36331205	GG	CC	CC	INTRON	101505423	homeobox protein LUMINIDEPENDENS
SNP_18517_A_36334365	NC_021162.1	Ca_Kabuli_Chr03	36334365	GG	AA	AA	INTRON	101505423	homeobox protein LUMINIDEPENDENS
SNP_18518_A_36334607	NC_021162.1	Ca_Kabuli_Chr03	36334607	TT	AA	AA	INTRON	101505423	homeobox protein LUMINIDEPENDENS
SNP_18519_A_36339400	NC_021162.1	Ca_Kabuli_Chr03	36339400	GG	AA	AA	URR	101505423	homeobox protein LUMINIDEPENDENS
SNP_18520_A_36342684	NC_021162.1	Ca_Kabuli_Chr03	36342684	GG	CC	CC	INTERGENIC		
SNP_18521_A_36342686	NC_021162.1	Ca_Kabuli_Chr03	36342686	GG	CC	CC	INTERGENIC		
SNP_18522_A_36342828	NC_021162.1	Ca_Kabuli_Chr03	36342828	TT	AA	AA	INTERGENIC		
SNP_18523_A_36342985	NC_021162.1	Ca_Kabuli_Chr03	36342985	AA	GG	GG	INTERGENIC		
SNP_18524_A_36343880	NC_021162.1	Ca_Kabuli_Chr03	36343880	CC	TT	TT	DRR	101505978	protein indeterminate-domain 2-like
SNP_18525_A_36343888	NC_021162.1	Ca_Kabuli_Chr03	36343888	GG	AA	AA	DRR	101505978	protein indeterminate-domain 2-like
SNP_18526_A_36349603	NC_021162.1	Ca_Kabuli_Chr03	36349603	AA	GG	GG	INTERGENIC		
SNP_18527_A_36350705	NC_021162.1	Ca_Kabuli_Chr03	36350705	TT	CC	CC	INTERGENIC		
SNP_18528_A_36351801	NC_021162.1	Ca_Kabuli_Chr03	36351801	GG	AA	AA	INTERGENIC		
SNP_18529_A_36351802	NC_021162.1	Ca_Kabuli_Chr03	36351802	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18530_A_36351850	NC_021162.1	Ca_Kabuli_Chr03	36351850	AA	GG	GG	INTERGENIC		
SNP_18532_A_36353624	NC_021162.1	Ca_Kabuli_Chr03	36353624	GG	AA	AA	INTERGENIC		
SNP_18533_A_36354039	NC_021162.1	Ca_Kabuli_Chr03	36354039	CC	TT	TT	INTERGENIC		
SNP_18534_A_36354395	NC_021162.1	Ca_Kabuli_Chr03	36354395	CC	AA	AA	INTERGENIC		
SNP_18535_A_36354872	NC_021162.1	Ca_Kabuli_Chr03	36354872	GG	AA	AA	INTERGENIC		
SNP_18536_A_36355552	NC_021162.1	Ca_Kabuli_Chr03	36355552	TT	CC	CC	INTERGENIC		
SNP_18537_A_36355607	NC_021162.1	Ca_Kabuli_Chr03	36355607	AA	GG	GG	INTERGENIC		
SNP_18538_A_36356528	NC_021162.1	Ca_Kabuli_Chr03	36356528	AA	GG	GG	DRR	101506286	uncharacterized LOC101506286
SNP_18540_A_36363564	NC_021162.1	Ca_Kabuli_Chr03	36363564	TT	CC	CC	URR	101506286	uncharacterized LOC101506286
SNP_18541_A_36363711	NC_021162.1	Ca_Kabuli_Chr03	36363711	GG	AA	AA	URR	101506286	uncharacterized LOC101506286
SNP_18543_A_36371963	NC_021162.1	Ca_Kabuli_Chr03	36371963	CC	TT	TT	INTERGENIC		
SNP_18544_A_36372479	NC_021162.1	Ca_Kabuli_Chr03	36372479	AA	TT	TT	INTERGENIC		
SNP_18545_A_36372506	NC_021162.1	Ca_Kabuli_Chr03	36372506	TT	GG	GG	INTERGENIC		
SNP_18546_A_36372783	NC_021162.1	Ca_Kabuli_Chr03	36372783	AA	TT	TT	INTERGENIC		
SNP_18547_A_36375782	NC_021162.1	Ca_Kabuli_Chr03	36375782	AA	CC	CC	DRR	101506941	wee1-like protein kinase
SNP_18548_A_36375788	NC_021162.1	Ca_Kabuli_Chr03	36375788	CC	TT	TT	DRR	101506941	wee1-like protein kinase
SNP_18549_A_36378358	NC_021162.1	Ca_Kabuli_Chr03	36378358	GG	AA	AA	INTERGENIC		
SNP_18550_A_36381331	NC_021162.1	Ca_Kabuli_Chr03	36381331	CC	AA	AA	DRR	101507267	uncharacterized LOC101507267
SNP_18551_A_36381395	NC_021162.1	Ca_Kabuli_Chr03	36381395	TT	GG	GG	DRR	101507267	uncharacterized LOC101507267
SNP_18553_A_36382336	NC_021162.1	Ca_Kabuli_Chr03	36382336	GG	AA	AA	URR	101506941	wee1-like protein kinase
SNP_18554_A_36382339	NC_021162.1	Ca_Kabuli_Chr03	36382339	CC	TT	TT	URR	101506941	wee1-like protein kinase
SNP_18555_A_36382375	NC_021162.1	Ca_Kabuli_Chr03	36382375	GG	CC	CC	URR	101506941	wee1-like protein kinase

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SNP_18556_A_36382455	NC_021162.1	Ca_Kabuli_Chr03	36382455	TT	CC	CC	URR	101506941	wee1-like protein kinase
SNP_18557_A_36382459	NC_021162.1	Ca_Kabuli_Chr03	36382459	CC	AA	AA	URR	101506941	wee1-like protein kinase
SNP_18558_A_36383151	NC_021162.1	Ca_Kabuli_Chr03	36383151	CC	TT	TT	INTRON	101507267	uncharacterized LOC101507267
SNP_18559_A_36383153	NC_021162.1	Ca_Kabuli_Chr03	36383153	GG	AA	AA	INTRON	101507267	uncharacterized LOC101507267
SNP_18560_A_36383164	NC_021162.1	Ca_Kabuli_Chr03	36383164	GG	AA	AA	INTRON	101507267	uncharacterized LOC101507267
SNP_18561_A_36383210	NC_021162.1	Ca_Kabuli_Chr03	36383210	AA	TT	TT	INTRON	101507267	uncharacterized LOC101507267
SNP_18562_A_36384909	NC_021162.1	Ca_Kabuli_Chr03	36384909	GG	AA	AA	NON_SYNONYMOUS_CODING	101507267	uncharacterized LOC101507267
SNP_18563_A_36389212	NC_021162.1	Ca_Kabuli_Chr03	36389212	GG	TT	TT	DRR	101507580	pentatricopeptide repeat-containing protein At5g56310-like
SNP_18564_A_36392074	NC_021162.1	Ca_Kabuli_Chr03	36392074	GG	TT	TT	DRR	101410607	transfer RNA glycine (anticodon CCC)
SNP_18565_A_36393349	NC_021162.1	Ca_Kabuli_Chr03	36393349	TT	CC	CC	URR	101507580	pentatricopeptide repeat-containing protein At5g56310-like
SNP_18568_A_36397387	NC_021162.1	Ca_Kabuli_Chr03	36397387	GG	AA	AA	INTERGENIC		
SNP_18569_A_36397447	NC_021162.1	Ca_Kabuli_Chr03	36397447	GG	AA	AA	INTERGENIC		
SNP_18570_A_36397463	NC_021162.1	Ca_Kabuli_Chr03	36397463	GG	TT	TT	INTERGENIC		
SNP_18572_A_36399221	NC_021162.1	Ca_Kabuli_Chr03	36399221	AA	GG	GG	URR	101508205	cyclin-dependent kinase 12-like
SNP_18573_A_36399415	NC_021162.1	Ca_Kabuli_Chr03	36399415	TT	CC	CC	URR	101508205	cyclin-dependent kinase 12-like
SNP_18574_A_36399459	NC_021162.1	Ca_Kabuli_Chr03	36399459	AA	GG	GG	DRR	101508530	bifunctional protein FoI2
SNP_18576_A_36399532	NC_021162.1	Ca_Kabuli_Chr03	36399532	GG	AA	AA	DRR	101508530	bifunctional protein FoI2
SNP_18577_A_36404908	NC_021162.1	Ca_Kabuli_Chr03	36404908	GG	AA	AA	INTERGENIC		
SNP_18578_A_36404974	NC_021162.1	Ca_Kabuli_Chr03	36404974	CC	TT	TT	INTERGENIC		
SNP_18579_A_36409162	NC_021162.1	Ca_Kabuli_Chr03	36409162	GG	AA	AA	DRR	101509166	rapid alkalization factor
SNP_18580_A_36409969	NC_021162.1	Ca_Kabuli_Chr03	36409969	GG	AA	AA	DRR	101509496	heat shock factor-binding protein 1-like
SNP_18583_A_36410699	NC_021162.1	Ca_Kabuli_Chr03	36410699	AA	GG	GG	DRR	101509496	heat shock factor-binding protein 1-like

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SNP_18584_A_36410824	NC_021162.1	Ca_Kabuli_Chr03	36410824	CC	TT	TT	URR	101509166	rapid alkalization factor
SNP_18585_A_36413064	NC_021162.1	Ca_Kabuli_Chr03	36413064	GG	AA	AA	URR	101509496	heat shock factor-binding protein 1-like
SNP_18586_A_36416697	NC_021162.1	Ca_Kabuli_Chr03	36416697	TT	GG	GG	INTRON	101509815	dol-P-Man:Man(5)GlcNAc(2)-PP-Dol mannosyltransferase alpha-1,3-
SNP_18587_A_36418442	NC_021162.1	Ca_Kabuli_Chr03	36418442	CC	TT	TT	INTRON	101509815	dol-P-Man:Man(5)GlcNAc(2)-PP-Dol mannosyltransferase alpha-1,3-
SNP_18589_A_36420257	NC_021162.1	Ca_Kabuli_Chr03	36420257	GG	AA	AA	DRR	101491220	uncharacterized LOC101491220
SNP_18591_A_36420670	NC_021162.1	Ca_Kabuli_Chr03	36420670	GG	AA	AA	DRR	101491220	uncharacterized LOC101491220
SNP_18592_A_36420709	NC_021162.1	Ca_Kabuli_Chr03	36420709	CC	TT	TT	DRR	101491220	uncharacterized LOC101491220
SNP_18594_A_36421301	NC_021162.1	Ca_Kabuli_Chr03	36421301	AA	TT	TT	URR	101509815	dol-P-Man:Man(5)GlcNAc(2)-PP-Dol mannosyltransferase alpha-1,3-
SNP_18595_A_36421315	NC_021162.1	Ca_Kabuli_Chr03	36421315	GG	AA	AA	URR	101509815	dol-P-Man:Man(5)GlcNAc(2)-PP-Dol mannosyltransferase alpha-1,3-
SNP_18596_A_36421681	NC_021162.1	Ca_Kabuli_Chr03	36421681	AA	TT	TT	DRR	101510570	translocator protein homolog
SNP_18597_A_36424448	NC_021162.1	Ca_Kabuli_Chr03	36424448	GG	CC	CC	DRR	101510893	xyloglucan 6-xylosyltransferase 2
SNP_18598_A_36433588	NC_021162.1	Ca_Kabuli_Chr03	36433588	TT	CC	CC	INTERGENIC		
SNP_18600_A_36436825	NC_021162.1	Ca_Kabuli_Chr03	36436825	AA	GG	GG	INTERGENIC		
SNP_18601_A_36442104	NC_021162.1	Ca_Kabuli_Chr03	36442104	CC	AA	AA	INTERGENIC		
SNP_18604_A_36449110	NC_021162.1	Ca_Kabuli_Chr03	36449110	CC	AA	AA	INTERGENIC		
SNP_18605_A_36452293	NC_021162.1	Ca_Kabuli_Chr03	36452293	CC	TT	TT	INTRON	101512497	probable E3 ubiquitin-protein ligase BAH1-like 1
SNP_18606_A_36452417	NC_021162.1	Ca_Kabuli_Chr03	36452417	GG	AA	AA	INTRON	101512497	probable E3 ubiquitin-protein ligase BAH1-like 1
SNP_18607_A_36452423	NC_021162.1	Ca_Kabuli_Chr03	36452423	CC	GG	GG	INTRON	101512497	probable E3 ubiquitin-protein ligase BAH1-like 1
SNP_18608_A_36452427	NC_021162.1	Ca_Kabuli_Chr03	36452427	CC	TT	TT	INTRON	101512497	probable E3 ubiquitin-protein ligase BAH1-like 1
SNP_18610_A_36455599	NC_021162.1	Ca_Kabuli_Chr03	36455599	CC	AA	AA	URR	101512497	probable E3 ubiquitin-protein ligase BAH1-like 1
SNP_18612_A_36455820	NC_021162.1	Ca_Kabuli_Chr03	36455820	CC	TT	TT	INTERGENIC		
SNP_18613_A_36456747	NC_021162.1	Ca_Kabuli_Chr03	36456747	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18614_A_36457350	NC_021162.1	Ca_Kabuli_Chr03	36457350	AA	GG	GG	INTERGENIC		
SNP_18617_A_36458368	NC_021162.1	Ca_Kabuli_Chr03	36458368	TT	GG	GG	INTERGENIC		
SNP_18618_A_36458371	NC_021162.1	Ca_Kabuli_Chr03	36458371	AA	GG	GG	INTERGENIC		
SNP_18619_A_36460299	NC_021162.1	Ca_Kabuli_Chr03	36460299	TT	CC	CC	INTERGENIC		
SNP_18620_A_36463062	NC_021162.1	Ca_Kabuli_Chr03	36463062	CC	TT	TT	URR	101512811	universal stress protein A-like protein
SNP_18621_A_36463293	NC_021162.1	Ca_Kabuli_Chr03	36463293	TT	CC	CC	DRR	101513141	phytochrome A-associated F-box protein
SNP_18622_A_36466031	NC_021162.1	Ca_Kabuli_Chr03	36466031	TT	CC	CC	URR	101513141	phytochrome A-associated F-box protein
SNP_18623_A_36467514	NC_021162.1	Ca_Kabuli_Chr03	36467514	GG	AA	AA	INTERGENIC		
SNP_18624_A_36467774	NC_021162.1	Ca_Kabuli_Chr03	36467774	AA	GG	GG	INTERGENIC		
SNP_18625_A_36468124	NC_021162.1	Ca_Kabuli_Chr03	36468124	AA	GG	GG	INTERGENIC		
SNP_18626_A_36468268	NC_021162.1	Ca_Kabuli_Chr03	36468268	CC	TT	TT	INTERGENIC		
SNP_18627_A_36475872	NC_021162.1	Ca_Kabuli_Chr03	36475872	TT	CC	CC	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18628_A_36476413	NC_021162.1	Ca_Kabuli_Chr03	36476413	TT	GG	GG	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18629_A_36477769	NC_021162.1	Ca_Kabuli_Chr03	36477769	GG	CC	CC	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18630_A_36480123	NC_021162.1	Ca_Kabuli_Chr03	36480123	GG	CC	CC	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18631_A_36480968	NC_021162.1	Ca_Kabuli_Chr03	36480968	TT	CC	CC	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18632_A_36481261	NC_021162.1	Ca_Kabuli_Chr03	36481261	GG	AA	AA	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18633_A_36481984	NC_021162.1	Ca_Kabuli_Chr03	36481984	GG	TT	TT	INTRON	101491540	serine/arginine-rich-splicing factor SR34
SNP_18634_A_36485999	NC_021162.1	Ca_Kabuli_Chr03	36485999	AA	TT	TT	INTERGENIC		
SNP_18635_A_36488972	NC_021162.1	Ca_Kabuli_Chr03	36488972	CC	TT	TT	DRR	101514116	caffeoylshikimate esterase-like
SNP_18636_A_36489094	NC_021162.1	Ca_Kabuli_Chr03	36489094	GG	AA	AA	DRR	101514116	caffeoylshikimate esterase-like
SNP_18637_A_36489389	NC_021162.1	Ca_Kabuli_Chr03	36489389	GG	TT	TT	DRR	101514116	caffeoylshikimate esterase-like

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SNP_18638_A_36489395	NC_021162.1	Ca_Kabuli_Chr03	36489395	AA	CC	CC	DRR	101514116	caffeoylshikimate esterase-like
SNP_18639_A_36489556	NC_021162.1	Ca_Kabuli_Chr03	36489556	AA	GG	GG	DRR	101514116	caffeoylshikimate esterase-like
SNP_18640_A_36489564	NC_021162.1	Ca_Kabuli_Chr03	36489564	AA	TT	TT	DRR	101514116	caffeoylshikimate esterase-like
SNP_18642_A_36490689	NC_021162.1	Ca_Kabuli_Chr03	36490689	CC	TT	TT	URR	101513776	21 kDa protein-like
SNP_18643_A_36496018	NC_021162.1	Ca_Kabuli_Chr03	36496018	TT	CC	CC	URR	101514116	caffeoylshikimate esterase-like
SNP_18644_A_36496029	NC_021162.1	Ca_Kabuli_Chr03	36496029	TT	CC	CC	URR	101514116	caffeoylshikimate esterase-like
SNP_18645_A_36496083	NC_021162.1	Ca_Kabuli_Chr03	36496083	TT	CC	CC	URR	101514116	caffeoylshikimate esterase-like
SNP_18646_A_36496084	NC_021162.1	Ca_Kabuli_Chr03	36496084	GG	CC	CC	URR	101514116	caffeoylshikimate esterase-like
SNP_18647_A_36497369	NC_021162.1	Ca_Kabuli_Chr03	36497369	AA	CC	CC	INTERGENIC		
SNP_18648_A_36499325	NC_021162.1	Ca_Kabuli_Chr03	36499325	AA	TT	TT	INTERGENIC		
SNP_18649_A_36499335	NC_021162.1	Ca_Kabuli_Chr03	36499335	CC	TT	TT	INTERGENIC		
SNP_18650_A_36499900	NC_021162.1	Ca_Kabuli_Chr03	36499900	CC	TT	TT	INTERGENIC		
SNP_18651_A_36503556	NC_021162.1	Ca_Kabuli_Chr03	36503556	TT	CC	CC	INTRON	101491846	uncharacterized protein C57A7.06
SNP_18652_A_36505429	NC_021162.1	Ca_Kabuli_Chr03	36505429	TT	CC	CC	INTRON	101491846	uncharacterized protein C57A7.06
SNP_18653_A_36505437	NC_021162.1	Ca_Kabuli_Chr03	36505437	TT	AA	AA	INTRON	101491846	uncharacterized protein C57A7.06
SNP_18654_A_36505837	NC_021162.1	Ca_Kabuli_Chr03	36505837	TT	AA	AA	INTRON	101491846	uncharacterized protein C57A7.06
SNP_18655_A_36507575	NC_021162.1	Ca_Kabuli_Chr03	36507575	AA	GG	GG	URR	101491846	uncharacterized protein C57A7.06
SNP_18656_A_36509560	NC_021162.1	Ca_Kabuli_Chr03	36509560	GG	AA	AA	INTERGENIC		
SNP_18657_A_36515063	NC_021162.1	Ca_Kabuli_Chr03	36515063	TT	CC	CC	INTRON	101514663	U1 small nuclear ribonucleoprotein A
SNP_18658_A_36515655	NC_021162.1	Ca_Kabuli_Chr03	36515655	TT	CC	CC	INTRON	101514663	U1 small nuclear ribonucleoprotein A
SNP_18659_A_36516576	NC_021162.1	Ca_Kabuli_Chr03	36516576	CC	AA	AA	URR	101514663	U1 small nuclear ribonucleoprotein A
SNP_18660_A_36516611	NC_021162.1	Ca_Kabuli_Chr03	36516611	GG	AA	AA	URR	101514663	U1 small nuclear ribonucleoprotein A

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SNP_18661_A_36517162	NC_021162.1	Ca_Kabuli_Chr03	36517162	CC	AA	AA	URR	101514663	U1 small nuclear ribonucleoprotein A
SNP_18662_A_36524758	NC_021162.1	Ca_Kabuli_Chr03	36524758	AA	GG	GG	INTERGENIC		
SNP_18663_A_36525145	NC_021162.1	Ca_Kabuli_Chr03	36525145	TT	AA	AA	URR	101514990	indole-3-acetic acid-induced protein ARG2-like
SNP_18664_A_36525391	NC_021162.1	Ca_Kabuli_Chr03	36525391	TT	AA	AA	URR	101514990	indole-3-acetic acid-induced protein ARG2-like
SNP_18666_A_36526350	NC_021162.1	Ca_Kabuli_Chr03	36526350	CC	TT	TT	DRR	101515317	uncharacterized protein At5g01610-like
SNP_18667_A_36526362	NC_021162.1	Ca_Kabuli_Chr03	36526362	AA	TT	TT	DRR	101515317	uncharacterized protein At5g01610-like
SNP_18668_A_36526428	NC_021162.1	Ca_Kabuli_Chr03	36526428	CC	TT	TT	DRR	101515317	uncharacterized protein At5g01610-like
SNP_18669_A_36527112	NC_021162.1	Ca_Kabuli_Chr03	36527112	CC	TT	TT	DRR	101515317	uncharacterized protein At5g01610-like
SNP_18670_A_36527338	NC_021162.1	Ca_Kabuli_Chr03	36527338	TT	CC	CC	INTERGENIC		
SNP_18672_A_36529837	NC_021162.1	Ca_Kabuli_Chr03	36529837	AA	GG	GG	DRR	101515642	exocyst complex component SEC15B
SNP_18673_A_36529877	NC_021162.1	Ca_Kabuli_Chr03	36529877	AA	TT	TT	DRR	101515642	exocyst complex component SEC15B
SNP_18674_A_36530024	NC_021162.1	Ca_Kabuli_Chr03	36530024	TT	CC	CC	DRR	101515642	exocyst complex component SEC15B
SNP_18675_A_36530149	NC_021162.1	Ca_Kabuli_Chr03	36530149	CC	TT	TT	DRR	101515642	exocyst complex component SEC15B
SNP_18677_A_36531849	NC_021162.1	Ca_Kabuli_Chr03	36531849	GG	TT	TT	SYNONYMOUS_CODING	101515642	exocyst complex component SEC15B
SNP_18678_A_36533790	NC_021162.1	Ca_Kabuli_Chr03	36533790	AA	TT	TT	URR	101515642	exocyst complex component SEC15B
SNP_18679_A_36533796	NC_021162.1	Ca_Kabuli_Chr03	36533796	GG	AA	AA	URR	101515642	exocyst complex component SEC15B
SNP_18680_A_36543238	NC_021162.1	Ca_Kabuli_Chr03	36543238	CC	TT	TT	INTRON	101488396	60S ribosomal protein L18
SNP_18681_A_36543270	NC_021162.1	Ca_Kabuli_Chr03	36543270	TT	GG	GG	INTRON	101488396	60S ribosomal protein L18
SNP_18682_A_36543556	NC_021162.1	Ca_Kabuli_Chr03	36543556	TT	CC	CC	INTERGENIC		
SNP_18683_A_36553274	NC_021162.1	Ca_Kabuli_Chr03	36553274	AA	GG	GG	URR	101488724	bifunctional epoxide hydrolase 2
SNP_18684_A_36561497	NC_021162.1	Ca_Kabuli_Chr03	36561497	TT	CC	CC	INTERGENIC		
SNP_18685_A_36565284	NC_021162.1	Ca_Kabuli_Chr03	36565284	CC	TT	TT	DRR	101489391	uncharacterized LOC101489391

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18686_A_36565325	NC_021162.1	Ca_Kabuli_Chr03	36565325	GG	AA	AA	DRR	101489391	uncharacterized LOC101489391
SNP_18687_A_36565340	NC_021162.1	Ca_Kabuli_Chr03	36565340	CC	AA	AA	DRR	101489391	uncharacterized LOC101489391
SNP_18688_A_36565484	NC_021162.1	Ca_Kabuli_Chr03	36565484	AA	GG	GG	DRR	101489391	uncharacterized LOC101489391
SNP_18689_A_36574188	NC_021162.1	Ca_Kabuli_Chr03	36574188	AA	TT	TT	NON_SYNONYMOUS_CODING	101490034	probable pectinesterase/pectinesterase inhibitor 41
SNP_18690_A_36582453	NC_021162.1	Ca_Kabuli_Chr03	36582453	AA	GG	GG	DRR	101490578	pectinesterase
SNP_18691_A_36582526	NC_021162.1	Ca_Kabuli_Chr03	36582526	GG	TT	TT	DRR	101490578	pectinesterase
SNP_18692_A_36582540	NC_021162.1	Ca_Kabuli_Chr03	36582540	CC	TT	TT	DRR	101490578	pectinesterase
SNP_18695_A_36582635	NC_021162.1	Ca_Kabuli_Chr03	36582635	GG	TT	TT	DRR	101490578	pectinesterase
SNP_18696_A_36583588	NC_021162.1	Ca_Kabuli_Chr03	36583588	GG	AA	AA	NON_SYNONYMOUS_CODING	101490578	pectinesterase
SNP_18697_A_36588896	NC_021162.1	Ca_Kabuli_Chr03	36588896	CC	GG	GG	INTERGENIC		
SNP_18698_A_36588976	NC_021162.1	Ca_Kabuli_Chr03	36588976	AA	GG	GG	INTERGENIC		
SNP_18699_A_36595731	NC_021162.1	Ca_Kabuli_Chr03	36595731	CC	GG	GG	URR	101490898	sucrose synthase 2
SNP_18700_A_36595804	NC_021162.1	Ca_Kabuli_Chr03	36595804	AA	TT	TT	URR	101490898	sucrose synthase 2
SNP_18701_A_36595835	NC_021162.1	Ca_Kabuli_Chr03	36595835	TT	CC	CC	URR	101490898	sucrose synthase 2
SNP_18702_A_36596053	NC_021162.1	Ca_Kabuli_Chr03	36596053	TT	CC	CC	URR	101490898	sucrose synthase 2
SNP_18703_A_36596056	NC_021162.1	Ca_Kabuli_Chr03	36596056	TT	CC	CC	URR	101490898	sucrose synthase 2
SNP_18704_A_36596079	NC_021162.1	Ca_Kabuli_Chr03	36596079	CC	TT	TT	URR	101490898	sucrose synthase 2
SNP_18706_A_36597646	NC_021162.1	Ca_Kabuli_Chr03	36597646	AA	CC	CC	INTERGENIC		
SNP_18707_A_36597947	NC_021162.1	Ca_Kabuli_Chr03	36597947	TT	CC	CC	INTERGENIC		
SNP_18709_A_36598332	NC_021162.1	Ca_Kabuli_Chr03	36598332	AA	TT	TT	INTERGENIC		
SNP_18710_A_36607351	NC_021162.1	Ca_Kabuli_Chr03	36607351	TT	CC	CC	INTERGENIC		
SNP_18713_A_36614066	NC_021162.1	Ca_Kabuli_Chr03	36614066	CC	TT	TT	INTERGENIC		

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SNP_18714_A_36614085	NC_021162.1	Ca_Kabuli_Chr03	36614085	CC	TT	TT	INTERGENIC			
SNP_18715_A_36614117	NC_021162.1	Ca_Kabuli_Chr03	36614117	TT	GG	GG	INTERGENIC			
SNP_18717_A_36616855	NC_021162.1	Ca_Kabuli_Chr03	36616855	TT	CC	CC	INTERGENIC			
SNP_18718_A_36624185	NC_021162.1	Ca_Kabuli_Chr03	36624185	GG	AA	AA	URR	101492847	ethylene response sensor 1	
SNP_18719_A_36624186	NC_021162.1	Ca_Kabuli_Chr03	36624186	GG	TT	TT	URR	101492847	ethylene response sensor 1	
SNP_18722_A_36624667	NC_021162.1	Ca_Kabuli_Chr03	36624667	TT	AA	AA	URR	101492847	ethylene response sensor 1	
SNP_18723_A_36624687	NC_021162.1	Ca_Kabuli_Chr03	36624687	AA	GG	GG	URR	101492847	ethylene response sensor 1	
SNP_18725_A_36625095	NC_021162.1	Ca_Kabuli_Chr03	36625095	CC	TT	TT	URR	101492847	ethylene response sensor 1	
SNP_18726_A_36625113	NC_021162.1	Ca_Kabuli_Chr03	36625113	AA	GG	GG	URR	101492847	ethylene response sensor 1	
SNP_18728_A_36626182	NC_021162.1	Ca_Kabuli_Chr03	36626182	TT	CC	CC	INTERGENIC			
SNP_18729_A_36626220	NC_021162.1	Ca_Kabuli_Chr03	36626220	GG	AA	AA	INTERGENIC			
SNP_18730_A_36631328	NC_021162.1	Ca_Kabuli_Chr03	36631328	CC	AA	AA	INTRON	101492520	nicotinamide adenine dinucleotide transporter 1, chloroplast-like	
SNP_18731_A_36632819	NC_021162.1	Ca_Kabuli_Chr03	36632819	AA	CC	CC	INTRON	101492520	nicotinamide adenine dinucleotide transporter 1, chloroplast-like	
SNP_18732_A_36632968	NC_021162.1	Ca_Kabuli_Chr03	36632968	TT	CC	CC	INTRON	101492520	nicotinamide adenine dinucleotide transporter 1, chloroplast-like	
SNP_18733_A_36633190	NC_021162.1	Ca_Kabuli_Chr03	36633190	AA	GG	GG	INTRON	101492520	nicotinamide adenine dinucleotide transporter 1, chloroplast-like	
SNP_18734_A_36636648	NC_021162.1	Ca_Kabuli_Chr03	36636648	GG	AA	AA	INTERGENIC			
SNP_18735_A_36636698	NC_021162.1	Ca_Kabuli_Chr03	36636698	CC	TT	TT	INTERGENIC			
SNP_18738_A_36638179	NC_021162.1	Ca_Kabuli_Chr03	36638179	GG	TT	TT	INTERGENIC			
SNP_18740_A_36638413	NC_021162.1	Ca_Kabuli_Chr03	36638413	TT	CC	CC	INTERGENIC			
SNP_18741_A_36638424	NC_021162.1	Ca_Kabuli_Chr03	36638424	TT	CC	CC	INTERGENIC			
SNP_18742_A_36638450	NC_021162.1	Ca_Kabuli_Chr03	36638450	TT	AA	AA	INTERGENIC			
SNP_18743_A_36638562	NC_021162.1	Ca_Kabuli_Chr03	36638562	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18744_A_36638834	NC_021162.1	Ca_Kabuli_Chr03	36638834	AA	CC	CC	INTERGENIC		
SNP_18745_A_36638869	NC_021162.1	Ca_Kabuli_Chr03	36638869	CC	AA	AA	INTERGENIC		
SNP_18746_A_36638912	NC_021162.1	Ca_Kabuli_Chr03	36638912	AA	TT	TT	INTERGENIC		
SNP_18747_A_36639464	NC_021162.1	Ca_Kabuli_Chr03	36639464	GG	AA	AA	INTERGENIC		
SNP_18748_A_36640594	NC_021162.1	Ca_Kabuli_Chr03	36640594	CC	TT	TT	INTERGENIC		
SNP_18749_A_36640598	NC_021162.1	Ca_Kabuli_Chr03	36640598	TT	CC	CC	INTERGENIC		
SNP_18750_A_36641347	NC_021162.1	Ca_Kabuli_Chr03	36641347	CC	AA	AA	DRR	101493396	syntxin-43
SNP_18751_A_36641419	NC_021162.1	Ca_Kabuli_Chr03	36641419	GG	AA	AA	DRR	101493396	syntxin-43
SNP_18752_A_36645717	NC_021162.1	Ca_Kabuli_Chr03	36645717	CC	GG	GG	INTRON	101493396	syntxin-43
SNP_18754_A_36652857	NC_021162.1	Ca_Kabuli_Chr03	36652857	TT	AA	AA	URR	101493720	cellulose synthase-like protein D5
SNP_18755_A_36653569	NC_021162.1	Ca_Kabuli_Chr03	36653569	TT	CC	CC	URR	101493720	cellulose synthase-like protein D5
SNP_18756_A_36654180	NC_021162.1	Ca_Kabuli_Chr03	36654180	TT	CC	CC	INTERGENIC		
SNP_18757_A_36655860	NC_021162.1	Ca_Kabuli_Chr03	36655860	AA	CC	CC	INTERGENIC		
SNP_18758_A_36655874	NC_021162.1	Ca_Kabuli_Chr03	36655874	AA	GG	GG	INTERGENIC		
SNP_18759_A_36670448	NC_021162.1	Ca_Kabuli_Chr03	36670448	TT	GG	GG	URR	101494260	probable galacturonosyltransferase-like 7
SNP_18760_A_36670452	NC_021162.1	Ca_Kabuli_Chr03	36670452	CC	TT	TT	URR	101494260	probable galacturonosyltransferase-like 7
SNP_18761_A_36670727	NC_021162.1	Ca_Kabuli_Chr03	36670727	GG	TT	TT	INTERGENIC		
SNP_18762_A_36670746	NC_021162.1	Ca_Kabuli_Chr03	36670746	GG	AA	AA	INTERGENIC		
SNP_18763_A_36670747	NC_021162.1	Ca_Kabuli_Chr03	36670747	GG	AA	AA	INTERGENIC		
SNP_18764_A_36674430	NC_021162.1	Ca_Kabuli_Chr03	36674430	TT	GG	GG	INTERGENIC		
SNP_18765_A_36674466	NC_021162.1	Ca_Kabuli_Chr03	36674466	CC	AA	AA	INTERGENIC		
SNP_18766_A_36675600	NC_021162.1	Ca_Kabuli_Chr03	36675600	AA	TT	TT	INTERGENIC		

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SNP_18767_A_36675792	NC_021162.1	Ca_Kabuli_Chr03	36675792	CC	TT	TT	INTERGENIC		
SNP_18768_A_36676513	NC_021162.1	Ca_Kabuli_Chr03	36676513	CC	TT	TT	INTERGENIC		
SNP_18769_A_36676663	NC_021162.1	Ca_Kabuli_Chr03	36676663	CC	AA	AA	INTERGENIC		
SNP_18771_A_36684818	NC_021162.1	Ca_Kabuli_Chr03	36684818	TT	CC	CC	DRR	101495308	zinc finger CCH domain-containing protein 1
SNP_18772_A_36685662	NC_021162.1	Ca_Kabuli_Chr03	36685662	AA	TT	TT	URR	101493182	glyceraldehyde-3-phosphate dehydrogenase, testis-specific-like
SNP_18773_A_36688554	NC_021162.1	Ca_Kabuli_Chr03	36688554	AA	GG	GG	DRR	101496184	uncharacterized LOC101496184
SNP_18775_A_36692007	NC_021162.1	Ca_Kabuli_Chr03	36692007	TT	AA	AA	DRR	101496512	uncharacterized LOC101496512
SNP_18776_A_36692961	NC_021162.1	Ca_Kabuli_Chr03	36692961	TT	CC	CC	DRR	101496512	uncharacterized LOC101496512
SNP_18777_A_36694288	NC_021162.1	Ca_Kabuli_Chr03	36694288	CC	AA	AA	DRR	101496845	transcription factor MYB12-like
SNP_18778_A_36694771	NC_021162.1	Ca_Kabuli_Chr03	36694771	AA	GG	GG	URR	101496512	uncharacterized LOC101496512
SNP_18779_A_36696159	NC_021162.1	Ca_Kabuli_Chr03	36696159	AA	GG	GG	INTERGENIC		
SNP_18780_A_36697144	NC_021162.1	Ca_Kabuli_Chr03	36697144	AA	GG	GG	INTRON	101496845	transcription factor MYB12-like
SNP_18783_A_36705590	NC_021162.1	Ca_Kabuli_Chr03	36705590	GG	AA	AA	INTERGENIC		
SNP_18785_A_36707090	NC_021162.1	Ca_Kabuli_Chr03	36707090	TT	AA	AA	INTERGENIC		
SNP_18786_A_36707117	NC_021162.1	Ca_Kabuli_Chr03	36707117	AA	TT	TT	INTERGENIC		
SNP_18787_A_36707169	NC_021162.1	Ca_Kabuli_Chr03	36707169	CC	TT	TT	INTERGENIC		
SNP_18788_A_36707178	NC_021162.1	Ca_Kabuli_Chr03	36707178	AA	GG	GG	INTERGENIC		
SNP_18789_A_36707195	NC_021162.1	Ca_Kabuli_Chr03	36707195	AA	GG	GG	INTERGENIC		
SNP_18791_A_36707549	NC_021162.1	Ca_Kabuli_Chr03	36707549	GG	AA	AA	INTERGENIC		
SNP_18793_A_36708517	NC_021162.1	Ca_Kabuli_Chr03	36708517	TT	CC	CC	INTERGENIC		
SNP_18794_A_36709469	NC_021162.1	Ca_Kabuli_Chr03	36709469	CC	TT	TT	INTERGENIC		
SNP_18795_A_36715903	NC_021162.1	Ca_Kabuli_Chr03	36715903	TT	CC	CC	URR	101497170	dnaJ protein ERDJ3B

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SNP_18796_A_36716425	NC_021162.1	Ca_Kabuli_Chr03	36716425	TT	GG	GG	URR	101497170	dnaJ protein ERDJ3B
SNP_18798_A_36719359	NC_021162.1	Ca_Kabuli_Chr03	36719359	AA	GG	GG	DRR	101493817	uncharacterized LOC101493817
SNP_18799_A_36719374	NC_021162.1	Ca_Kabuli_Chr03	36719374	GG	AA	AA	DRR	101493817	uncharacterized LOC101493817
SNP_18800_A_36719389	NC_021162.1	Ca_Kabuli_Chr03	36719389	AA	TT	TT	DRR	101493817	uncharacterized LOC101493817
SNP_18801_A_36721996	NC_021162.1	Ca_Kabuli_Chr03	36721996	GG	AA	AA	SYNONYMOUS_CODING	101493817	uncharacterized LOC101493817
SNP_18802_A_36724218	NC_021162.1	Ca_Kabuli_Chr03	36724218	GG	CC	CC	URR	101493817	uncharacterized LOC101493817
SNP_18803_A_36725110	NC_021162.1	Ca_Kabuli_Chr03	36725110	TT	CC	CC	INTERGENIC		
SNP_18804_A_36725393	NC_021162.1	Ca_Kabuli_Chr03	36725393	CC	TT	TT	INTERGENIC		
SNP_18805_A_36726705	NC_021162.1	Ca_Kabuli_Chr03	36726705	CC	TT	TT	INTERGENIC		
SNP_18806_A_36728108	NC_021162.1	Ca_Kabuli_Chr03	36728108	TT	AA	AA	INTERGENIC		
SNP_18807_A_36728346	NC_021162.1	Ca_Kabuli_Chr03	36728346	CC	GG	GG	INTERGENIC		
SNP_18808_A_36728634	NC_021162.1	Ca_Kabuli_Chr03	36728634	AA	GG	GG	INTERGENIC		
SNP_18809_A_36728676	NC_021162.1	Ca_Kabuli_Chr03	36728676	AA	GG	GG	INTERGENIC		
SNP_18810_A_36728742	NC_021162.1	Ca_Kabuli_Chr03	36728742	CC	GG	GG	INTERGENIC		
SNP_18811_A_36728750	NC_021162.1	Ca_Kabuli_Chr03	36728750	TT	CC	CC	INTERGENIC		
SNP_18812_A_36729712	NC_021162.1	Ca_Kabuli_Chr03	36729712	AA	GG	GG	INTERGENIC		
SNP_18813_A_36730092	NC_021162.1	Ca_Kabuli_Chr03	36730092	GG	AA	AA	INTERGENIC		
SNP_18814_A_36735624	NC_021162.1	Ca_Kabuli_Chr03	36735624	CC	TT	TT	URR	101497500	uncharacterized LOC101497500
SNP_18815_A_36735708	NC_021162.1	Ca_Kabuli_Chr03	36735708	AA	CC	CC	URR	101497500	uncharacterized LOC101497500
SNP_18819_A_36736062	NC_021162.1	Ca_Kabuli_Chr03	36736062	TT	GG	GG	URR	101497500	uncharacterized LOC101497500
SNP_18820_A_36736138	NC_021162.1	Ca_Kabuli_Chr03	36736138	TT	CC	CC	URR	101497500	uncharacterized LOC101497500
SNP_18821_A_36736139	NC_021162.1	Ca_Kabuli_Chr03	36736139	TT	CC	CC	URR	101497500	uncharacterized LOC101497500

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SNP_18822_A_36736296	NC_021162.1	Ca_Kabuli_Chr03	36736296	GG	TT	TT	URR	101497500	uncharacterized LOC101497500
SNP_18823_A_36737154	NC_021162.1	Ca_Kabuli_Chr03	36737154	CC	AA	AA	URR	101497500	uncharacterized LOC101497500
SNP_18824_A_36738017	NC_021162.1	Ca_Kabuli_Chr03	36738017	CC	AA	AA	INTERGENIC		
SNP_18825_A_36738049	NC_021162.1	Ca_Kabuli_Chr03	36738049	CC	TT	TT	INTERGENIC		
SNP_18826_A_36738145	NC_021162.1	Ca_Kabuli_Chr03	36738145	GG	AA	AA	INTERGENIC		
SNP_18827_A_36745281	NC_021162.1	Ca_Kabuli_Chr03	36745281	TT	AA	AA	INTERGENIC		
SNP_18828_A_36745307	NC_021162.1	Ca_Kabuli_Chr03	36745307	AA	TT	TT	INTERGENIC		
SNP_18829_A_36745412	NC_021162.1	Ca_Kabuli_Chr03	36745412	CC	TT	TT	INTERGENIC		
SNP_18830_A_36745542	NC_021162.1	Ca_Kabuli_Chr03	36745542	AA	GG	GG	INTERGENIC		
SNP_18831_A_36746318	NC_021162.1	Ca_Kabuli_Chr03	36746318	TT	CC	CC	INTERGENIC		
SNP_18832_A_36746674	NC_021162.1	Ca_Kabuli_Chr03	36746674	TT	AA	AA	INTERGENIC		
SNP_18833_A_36746679	NC_021162.1	Ca_Kabuli_Chr03	36746679	GG	TT	TT	INTERGENIC		
SNP_18834_A_36747048	NC_021162.1	Ca_Kabuli_Chr03	36747048	CC	TT	TT	INTERGENIC		
SNP_18835_A_36747636	NC_021162.1	Ca_Kabuli_Chr03	36747636	TT	AA	AA	DRR	101497836	probable beta-D-xylosidase 2
SNP_18836_A_36747695	NC_021162.1	Ca_Kabuli_Chr03	36747695	AA	GG	GG	DRR	101497836	probable beta-D-xylosidase 2
SNP_18837_A_36747711	NC_021162.1	Ca_Kabuli_Chr03	36747711	GG	AA	AA	DRR	101497836	probable beta-D-xylosidase 2
SNP_18838_A_36749419	NC_021162.1	Ca_Kabuli_Chr03	36749419	CC	GG	GG	INTRON	101497836	probable beta-D-xylosidase 2
SNP_18839_A_36749471	NC_021162.1	Ca_Kabuli_Chr03	36749471	CC	AA	AA	INTRON	101497836	probable beta-D-xylosidase 2
SNP_18840_A_36749982	NC_021162.1	Ca_Kabuli_Chr03	36749982	TT	CC	CC	SYNONYMOUS_CODING	101497836	probable beta-D-xylosidase 2
SNP_18841_A_36750004	NC_021162.1	Ca_Kabuli_Chr03	36750004	GG	AA	AA	NON_SYNONYMOUS_CODING	101497836	probable beta-D-xylosidase 2
SNP_18842_A_36751506	NC_021162.1	Ca_Kabuli_Chr03	36751506	CC	TT	TT	INTRON	101497836	probable beta-D-xylosidase 2
SNP_18845_A_36753325	NC_021162.1	Ca_Kabuli_Chr03	36753325	TT	GG	GG	INTRON	101497836	probable beta-D-xylosidase 2

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SNP_18846_A_36753567	NC_021162.1	Ca_Kabuli_Chr03	36753567	TT	GG	GG	INTRON	101497836	probable beta-D-xylosidase 2
SNP_18847_A_36756330	NC_021162.1	Ca_Kabuli_Chr03	36756330	CC	TT	TT	URR	101497836	probable beta-D-xylosidase 2
SNP_18848_A_36756375	NC_021162.1	Ca_Kabuli_Chr03	36756375	CC	GG	GG	URR	101497836	probable beta-D-xylosidase 2
SNP_18849_A_36756390	NC_021162.1	Ca_Kabuli_Chr03	36756390	CC	GG	GG	URR	101497836	probable beta-D-xylosidase 2
SNP_18851_A_36756829	NC_021162.1	Ca_Kabuli_Chr03	36756829	CC	TT	TT	INTERGENIC		
SNP_18852_A_36759831	NC_021162.1	Ca_Kabuli_Chr03	36759831	GG	AA	AA	INTERGENIC		
SNP_18853_A_36761662	NC_021162.1	Ca_Kabuli_Chr03	36761662	TT	GG	GG	DRR	101498153	uncharacterized LOC101498153
SNP_18854_A_36761926	NC_021162.1	Ca_Kabuli_Chr03	36761926	TT	CC	CC	DRR	101498153	uncharacterized LOC101498153
SNP_18855_A_36762810	NC_021162.1	Ca_Kabuli_Chr03	36762810	GG	CC	CC	INTERGENIC		
SNP_18856_A_36763224	NC_021162.1	Ca_Kabuli_Chr03	36763224	TT	CC	CC	URR	101498153	uncharacterized LOC101498153
SNP_18857_A_36766647	NC_021162.1	Ca_Kabuli_Chr03	36766647	CC	TT	TT	DRR	101499148	uncharacterized LOC101499148
SNP_18858_A_36766657	NC_021162.1	Ca_Kabuli_Chr03	36766657	GG	AA	AA	DRR	101499148	uncharacterized LOC101499148
SNP_18859_A_36803293	NC_021162.1	Ca_Kabuli_Chr03	36803293	CC	AA	AA	INTERGENIC		
SNP_18860_A_36841811	NC_021162.1	Ca_Kabuli_Chr03	36841811	CC	TT	TT	DRR	101494454	DELLA protein RGL2-like
SNP_18861_A_36872943	NC_021162.1	Ca_Kabuli_Chr03	36872943	TT	GG	GG	INTRON	101502950	proline-rich receptor-like protein kinase PERK3
SNP_18862_A_36921691	NC_021162.1	Ca_Kabuli_Chr03	36921691	AA	TT	TT	INTERGENIC		
SNP_18864_A_36983995	NC_021162.1	Ca_Kabuli_Chr03	36983995	TT	CC	CC	INTERGENIC		
SNP_18865_A_36983999	NC_021162.1	Ca_Kabuli_Chr03	36983999	AA	CC	CC	INTERGENIC		
SNP_18866_A_36984003	NC_021162.1	Ca_Kabuli_Chr03	36984003	TT	AA	AA	INTERGENIC		
SNP_18867_A_37014682	NC_021162.1	Ca_Kabuli_Chr03	37014682	AA	GG	GG	INTERGENIC		
SNP_18869_A_37018802	NC_021162.1	Ca_Kabuli_Chr03	37018802	AA	TT	TT	DRR	101509386	probable boron transporter 2
SNP_18870_A_37026533	NC_021162.1	Ca_Kabuli_Chr03	37026533	CC	TT	TT	INTERGENIC		

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SNP_18871_A_37026538	NC_021162.1	Ca_Kabuli_Chr03	37026538	TT	AA	AA	INTERGENIC			
SNP_18874_A_37061708	NC_021162.1	Ca_Kabuli_Chr03	37061708	TT	CC	CC	URR	101510572		short-chain dehydrogenase reductase 3b-like
SNP_18875_A_37133206	NC_021162.1	Ca_Kabuli_Chr03	37133206	AA	GG	GG	URR	101513583		uncharacterized LOC101513583
SNP_18876_A_37149694	NC_021162.1	Ca_Kabuli_Chr03	37149694	TT	CC	CC	URR	101514554		two-pore potassium channel 5
SNP_18879_A_37296888	NC_021162.1	Ca_Kabuli_Chr03	37296888	AA	GG	GG	INTRON	101495766		cathepsin B-like
SNP_18880_A_37296893	NC_021162.1	Ca_Kabuli_Chr03	37296893	AA	CC	CC	INTRON	101495766		cathepsin B-like
SNP_18881_A_37375392	NC_021162.1	Ca_Kabuli_Chr03	37375392	CC	TT	TT	URR	101496945		protein NRT1/ PTR FAMILY 4.5-like
SNP_18882_A_37381957	NC_021162.1	Ca_Kabuli_Chr03	37381957	TT	CC	CC	URR	101497275		pectin acetyltransferase 12-like
SNP_18883_A_37409331	NC_021162.1	Ca_Kabuli_Chr03	37409331	CC	TT	TT	URR	101498154		pentatricopeptide repeat-containing protein At3g49170, chloroplastic-like
SNP_18885_A_37484401	NC_021162.1	Ca_Kabuli_Chr03	37484401	GG	AA	AA	URR	101501993		putative serine/threonine-protein kinase haspin homolog
SNP_18886_A_37502257	NC_021162.1	Ca_Kabuli_Chr03	37502257	CC	TT	TT	INTRON	101502633		protein transport protein Sec24-like At3g07100
SNP_18888_A_37704613	NC_021162.1	Ca_Kabuli_Chr03	37704613	AA	GG	GG	INTERGENIC			
SNP_18889_A_37718901	NC_021162.1	Ca_Kabuli_Chr03	37718901	TT	CC	CC	INTERGENIC			
SNP_18890_A_37718909	NC_021162.1	Ca_Kabuli_Chr03	37718909	TT	AA	AA	INTERGENIC			
SNP_18891_A_37719635	NC_021162.1	Ca_Kabuli_Chr03	37719635	TT	AA	AA	INTERGENIC			
SNP_18892_A_37719653	NC_021162.1	Ca_Kabuli_Chr03	37719653	TT	CC	CC	INTERGENIC			
SNP_18893_A_37719695	NC_021162.1	Ca_Kabuli_Chr03	37719695	AA	GG	GG	INTERGENIC			
SNP_18894_A_37730582	NC_021162.1	Ca_Kabuli_Chr03	37730582	TT	CC	CC	INTRON	101498718		NHL repeat-containing protein 2-like
SNP_18895_A_37732805	NC_021162.1	Ca_Kabuli_Chr03	37732805	AA	CC	CC	INTRON	101498718		NHL repeat-containing protein 2-like
SNP_18896_A_37743751	NC_021162.1	Ca_Kabuli_Chr03	37743751	CC	GG	GG	URR	101499041		Unknown function
SNP_18897_A_37743754	NC_021162.1	Ca_Kabuli_Chr03	37743754	GG	AA	AA	URR	101499041		Unknown function
SNP_18898_A_37757563	NC_021162.1	Ca_Kabuli_Chr03	37757563	TT	AA	AA	DRR	101511961		importin subunit alpha-like

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SNP_18899_A_37757566	NC_021162.1	Ca_Kabuli_Chr03	37757566	TT	GG	GG	DRR	101511961	importin subunit alpha-like
SNP_18900_A_37764173	NC_021162.1	Ca_Kabuli_Chr03	37764173	TT	GG	GG	URR	101511961	importin subunit alpha-like
SNP_18901_A_37764353	NC_021162.1	Ca_Kabuli_Chr03	37764353	TT	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18902_A_37764502	NC_021162.1	Ca_Kabuli_Chr03	37764502	TT	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18903_A_37764569	NC_021162.1	Ca_Kabuli_Chr03	37764569	TT	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18904_A_37764572	NC_021162.1	Ca_Kabuli_Chr03	37764572	GG	AA	AA	URR	101511961	importin subunit alpha-like
SNP_18905_A_37764631	NC_021162.1	Ca_Kabuli_Chr03	37764631	TT	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18906_A_37765265	NC_021162.1	Ca_Kabuli_Chr03	37765265	AA	GG	GG	URR	101511961	importin subunit alpha-like
SNP_18907_A_37765269	NC_021162.1	Ca_Kabuli_Chr03	37765269	TT	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18908_A_37765415	NC_021162.1	Ca_Kabuli_Chr03	37765415	AA	CC	CC	URR	101511961	importin subunit alpha-like
SNP_18909_A_37769383	NC_021162.1	Ca_Kabuli_Chr03	37769383	TT	GG	GG	URR	101512290	GATA transcription factor 16-like
SNP_18910_A_37808182	NC_021162.1	Ca_Kabuli_Chr03	37808182	CC	TT	TT	INTERGENIC		
SNP_18911_A_37808185	NC_021162.1	Ca_Kabuli_Chr03	37808185	GG	AA	AA	INTERGENIC		
SNP_18912_A_37808191	NC_021162.1	Ca_Kabuli_Chr03	37808191	GG	TT	TT	INTERGENIC		
SNP_18913_A_37812257	NC_021162.1	Ca_Kabuli_Chr03	37812257	GG	CC	CC	START_GAINED	101514664	kinesin-4
SNP_18914_A_37813057	NC_021162.1	Ca_Kabuli_Chr03	37813057	CC	AA	AA	INTRON	101514664	kinesin-4
SNP_18915_A_37846029	NC_021162.1	Ca_Kabuli_Chr03	37846029	AA	TT	TT	INTERGENIC		
SNP_18916_A_37846035	NC_021162.1	Ca_Kabuli_Chr03	37846035	TT	AA	AA	INTERGENIC		
SNP_18917_A_37880733	NC_021162.1	Ca_Kabuli_Chr03	37880733	AA	GG	GG	INTERGENIC		
SNP_18918_A_37898795	NC_021162.1	Ca_Kabuli_Chr03	37898795	AA	GG	GG	URR	101491119	F-box protein PP2-B15-like
SNP_18920_A_38092175	NC_021162.1	Ca_Kabuli_Chr03	38092175	TT	AA	AA	INTRON	101499771	respiratory burst oxidase homolog protein B-like
SNP_18922_A_38136871	NC_021162.1	Ca_Kabuli_Chr03	38136871	GG	TT	TT	URR	101501579	uncharacterized LOC101501579

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18923_A_38137190	NC_021162.1	Ca_Kabuli_Chr03	38137190	AA	GG	GG	URR	101501579	uncharacterized LOC101501579
SNP_18925_A_38140951	NC_021162.1	Ca_Kabuli_Chr03	38140951	AA	TT	TT	INTERGENIC		
SNP_18927_A_38141326	NC_021162.1	Ca_Kabuli_Chr03	38141326	AA	TT	TT	INTERGENIC		
SNP_18928_A_38141327	NC_021162.1	Ca_Kabuli_Chr03	38141327	AA	TT	TT	INTERGENIC		
SNP_18930_A_38142275	NC_021162.1	Ca_Kabuli_Chr03	38142275	TT	CC	CC	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18931_A_38142657	NC_021162.1	Ca_Kabuli_Chr03	38142657	GG	AA	AA	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18932_A_38142739	NC_021162.1	Ca_Kabuli_Chr03	38142739	AA	CC	CC	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18933_A_38142742	NC_021162.1	Ca_Kabuli_Chr03	38142742	GG	AA	AA	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18934_A_38142746	NC_021162.1	Ca_Kabuli_Chr03	38142746	AA	CC	CC	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18935_A_38142829	NC_021162.1	Ca_Kabuli_Chr03	38142829	CC	TT	TT	DRR	101501891	sucrose nonfermenting 4-like protein
SNP_18938_A_38157557	NC_021162.1	Ca_Kabuli_Chr03	38157557	GG	AA	AA	INTRON	101503172	DNA polymerase zeta catalytic subunit
SNP_18939_A_38162859	NC_021162.1	Ca_Kabuli_Chr03	38162859	CC	TT	TT	NON_SYNONYMOUS_CODING	101503172	DNA polymerase zeta catalytic subunit
SNP_18940_A_38163026	NC_021162.1	Ca_Kabuli_Chr03	38163026	CC	AA	AA	SYNONYMOUS_CODING	101503172	DNA polymerase zeta catalytic subunit
SNP_18942_A_38167528	NC_021162.1	Ca_Kabuli_Chr03	38167528	GG	CC	CC	NON_SYNONYMOUS_CODING	101503172	DNA polymerase zeta catalytic subunit
SNP_18943_A_38167837	NC_021162.1	Ca_Kabuli_Chr03	38167837	AA	GG	GG	NON_SYNONYMOUS_CODING	101503172	DNA polymerase zeta catalytic subunit
SNP_18944_A_38169101	NC_021162.1	Ca_Kabuli_Chr03	38169101	GG	AA	AA	INTRON	101503172	DNA polymerase zeta catalytic subunit
SNP_18945_A_38169102	NC_021162.1	Ca_Kabuli_Chr03	38169102	GG	TT	TT	INTRON	101503172	DNA polymerase zeta catalytic subunit
SNP_18946_A_38170174	NC_021162.1	Ca_Kabuli_Chr03	38170174	TT	CC	CC	INTERGENIC		
SNP_18948_A_38170279	NC_021162.1	Ca_Kabuli_Chr03	38170279	CC	TT	TT	INTERGENIC		
SNP_18949_A_38170634	NC_021162.1	Ca_Kabuli_Chr03	38170634	GG	AA	AA	INTERGENIC		
SNP_18950_A_38170639	NC_021162.1	Ca_Kabuli_Chr03	38170639	AA	GG	GG	INTERGENIC		
SNP_18951_A_38170656	NC_021162.1	Ca_Kabuli_Chr03	38170656	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18952_A_38173163	NC_021162.1	Ca_Kabuli_Chr03	38173163	AA	GG	GG	INTERGENIC		
SNP_18954_A_38174656	NC_021162.1	Ca_Kabuli_Chr03	38174656	AA	GG	GG	URR	101503172	DNA polymerase zeta catalytic subunit
SNP_18955_A_38174760	NC_021162.1	Ca_Kabuli_Chr03	38174760	TT	CC	CC	URR	101503172	DNA polymerase zeta catalytic subunit
SNP_18956_A_38176160	NC_021162.1	Ca_Kabuli_Chr03	38176160	CC	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18957_A_38177157	NC_021162.1	Ca_Kabuli_Chr03	38177157	CC	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18958_A_38177170	NC_021162.1	Ca_Kabuli_Chr03	38177170	CC	GG	GG	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18959_A_38177171	NC_021162.1	Ca_Kabuli_Chr03	38177171	TT	GG	GG	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18960_A_38177181	NC_021162.1	Ca_Kabuli_Chr03	38177181	CC	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18961_A_38177185	NC_021162.1	Ca_Kabuli_Chr03	38177185	AA	CC	CC	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18962_A_38177187	NC_021162.1	Ca_Kabuli_Chr03	38177187	GG	CC	CC	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18963_A_38177222	NC_021162.1	Ca_Kabuli_Chr03	38177222	TT	CC	CC	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18964_A_38177611	NC_021162.1	Ca_Kabuli_Chr03	38177611	GG	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18965_A_38177996	NC_021162.1	Ca_Kabuli_Chr03	38177996	AA	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18966_A_38178304	NC_021162.1	Ca_Kabuli_Chr03	38178304	GG	TT	TT	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18967_A_38178313	NC_021162.1	Ca_Kabuli_Chr03	38178313	TT	AA	AA	INTRON	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18968_A_38179700	NC_021162.1	Ca_Kabuli_Chr03	38179700	TT	CC	CC	NON_SYNONYMOUS_CODING	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18969_A_38180619	NC_021162.1	Ca_Kabuli_Chr03	38180619	GG	AA	AA	URR	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18970_A_38181789	NC_021162.1	Ca_Kabuli_Chr03	38181789	TT	CC	CC	URR	101502735	probable linoleate 9S-lipoxygenase 5
SNP_18971_A_38183877	NC_021162.1	Ca_Kabuli_Chr03	38183877	GG	AA	AA	INTERGENIC		
SNP_18972_A_38184255	NC_021162.1	Ca_Kabuli_Chr03	38184255	GG	AA	AA	INTERGENIC		
SNP_18973_A_38184292	NC_021162.1	Ca_Kabuli_Chr03	38184292	GG	AA	AA	INTERGENIC		
SNP_18974_A_38186009	NC_021162.1	Ca_Kabuli_Chr03	38186009	TT	CC	CC	DRR	101503047	protein AUXIN RESPONSE 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_18975_A_38186689	NC_021162.1	Ca_Kabuli_Chr03	38186689	GG	CC	CC	INTRON	101503047	protein AUXIN RESPONSE 4
SNP_18976_A_38194497	NC_021162.1	Ca_Kabuli_Chr03	38194497	AA	GG	GG	URR	101503492	uncharacterized LOC101503492
SNP_18977_A_38201164	NC_021162.1	Ca_Kabuli_Chr03	38201164	GG	AA	AA	NON_SYNONYMOUS_CODING	101503378	probable Xaa-Pro aminopeptidase P
SNP_18978_A_38201238	NC_021162.1	Ca_Kabuli_Chr03	38201238	GG	AA	AA	NON_SYNONYMOUS_CODING	101503378	probable Xaa-Pro aminopeptidase P
SNP_18979_A_38201768	NC_021162.1	Ca_Kabuli_Chr03	38201768	TT	CC	CC	INTRON	101503378	probable Xaa-Pro aminopeptidase P
SNP_18980_A_38202789	NC_021162.1	Ca_Kabuli_Chr03	38202789	TT	GG	GG	SPLICE_SITE_REGION	101503378	probable Xaa-Pro aminopeptidase P
SNP_18981_A_38204806	NC_021162.1	Ca_Kabuli_Chr03	38204806	CC	TT	TT	INTRON	101503378	probable Xaa-Pro aminopeptidase P
SNP_18982_A_38204878	NC_021162.1	Ca_Kabuli_Chr03	38204878	GG	CC	CC	INTRON	101503378	probable Xaa-Pro aminopeptidase P
SNP_18983_A_38205525	NC_021162.1	Ca_Kabuli_Chr03	38205525	GG	AA	AA	INTRON	101503378	probable Xaa-Pro aminopeptidase P
SNP_18985_A_38205913	NC_021162.1	Ca_Kabuli_Chr03	38205913	CC	TT	TT	INTERGENIC		
SNP_18986_A_38206346	NC_021162.1	Ca_Kabuli_Chr03	38206346	GG	CC	CC	URR	101503378	probable Xaa-Pro aminopeptidase P
SNP_18990_A_38215904	NC_021162.1	Ca_Kabuli_Chr03	38215904	GG	TT	TT	DRR	101504043	microtubule-binding protein TANGLED-like
SNP_18993_A_38221405	NC_021162.1	Ca_Kabuli_Chr03	38221405	CC	AA	AA	INTRON	101504897	kinesin-like protein KIFC3
SNP_18994_A_38224700	NC_021162.1	Ca_Kabuli_Chr03	38224700	AA	GG	GG	INTERGENIC		
SNP_18995_A_38226680	NC_021162.1	Ca_Kabuli_Chr03	38226680	CC	TT	TT	DRR	101504354	uncharacterized LOC101504354
SNP_18996_A_38226688	NC_021162.1	Ca_Kabuli_Chr03	38226688	CC	TT	TT	DRR	101504354	uncharacterized LOC101504354
SNP_18997_A_38226732	NC_021162.1	Ca_Kabuli_Chr03	38226732	AA	GG	GG	DRR	101504354	uncharacterized LOC101504354
SNP_18998_A_38227031	NC_021162.1	Ca_Kabuli_Chr03	38227031	GG	AA	AA	URR	101504897	kinesin-like protein KIFC3
SNP_18999_A_38227405	NC_021162.1	Ca_Kabuli_Chr03	38227405	TT	CC	CC	URR	101504897	kinesin-like protein KIFC3
SNP_19000_A_38228118	NC_021162.1	Ca_Kabuli_Chr03	38228118	TT	GG	GG	INTERGENIC		
SNP_19001_A_38228247	NC_021162.1	Ca_Kabuli_Chr03	38228247	GG	TT	TT	INTERGENIC		
SNP_19003_A_38229037	NC_021162.1	Ca_Kabuli_Chr03	38229037	AA	GG	GG	DRR	101505201	pentatricopeptide repeat-containing protein At3g05340

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_19004_A_38231177	NC_021162.1	Ca_Kabuli_Chr03	38231177	CC	TT	TT	URR		101504354	uncharacterized LOC101504354
SNP_19005_A_38232488	NC_021162.1	Ca_Kabuli_Chr03	38232488	GG	AA	AA	URR		101505201	pentatricopeptide repeat-containing protein At3g05340
SNP_19006_A_38232793	NC_021162.1	Ca_Kabuli_Chr03	38232793	CC	GG	GG	URR		101505201	pentatricopeptide repeat-containing protein At3g05340
SNP_19007_A_38233291	NC_021162.1	Ca_Kabuli_Chr03	38233291	CC	TT	TT	DRR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19008_A_38233672	NC_021162.1	Ca_Kabuli_Chr03	38233672	CC	TT	TT	DRR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19009_A_38233868	NC_021162.1	Ca_Kabuli_Chr03	38233868	TT	GG	GG	DRR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19010_A_38239068	NC_021162.1	Ca_Kabuli_Chr03	38239068	AA	GG	GG	INTERGENIC			
SNP_19011_A_38239132	NC_021162.1	Ca_Kabuli_Chr03	38239132	CC	TT	TT	INTERGENIC			
SNP_19012_A_38239838	NC_021162.1	Ca_Kabuli_Chr03	38239838	GG	CC	CC	INTERGENIC			
SNP_19013_A_38239878	NC_021162.1	Ca_Kabuli_Chr03	38239878	TT	CC	CC	INTERGENIC			
SNP_19014_A_38240352	NC_021162.1	Ca_Kabuli_Chr03	38240352	AA	CC	CC	INTERGENIC			
SNP_19016_A_38240364	NC_021162.1	Ca_Kabuli_Chr03	38240364	TT	CC	CC	INTERGENIC			
SNP_19017_A_38240659	NC_021162.1	Ca_Kabuli_Chr03	38240659	TT	AA	AA	URR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19018_A_38240675	NC_021162.1	Ca_Kabuli_Chr03	38240675	AA	TT	TT	URR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19021_A_38241374	NC_021162.1	Ca_Kabuli_Chr03	38241374	GG	AA	AA	URR		101505520	mannosylglycoprotein endo-beta-mannosidase-like
SNP_19022_A_38353156	NC_021162.1	Ca_Kabuli_Chr03	38353156	TT	CC	CC	INTERGENIC			
SNP_19023_A_38353157	NC_021162.1	Ca_Kabuli_Chr03	38353157	TT	GG	GG	INTERGENIC			
SNP_19024_A_38594721	NC_021162.1	Ca_Kabuli_Chr03	38594721	CC	TT	TT	URR		101494044	proteasome subunit beta type-4-like
SNP_19025_A_38622868	NC_021162.1	Ca_Kabuli_Chr03	38622868	TT	GG	GG	URR		101495311	40S ribosomal protein S24-1
SNP_19026_A_38622880	NC_021162.1	Ca_Kabuli_Chr03	38622880	AA	CC	CC	URR		101495311	40S ribosomal protein S24-1
SNP_19028_A_38690610	NC_021162.1	Ca_Kabuli_Chr03	38690610	GG	AA	AA	INTERGENIC			
SNP_19029_A_38690638	NC_021162.1	Ca_Kabuli_Chr03	38690638	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19030_A_38690747	NC_021162.1	Ca_Kabuli_Chr03	38690747	AA	TT	TT	INTERGENIC		
SNP_19031_A_38691177	NC_021162.1	Ca_Kabuli_Chr03	38691177	AA	GG	GG	DRR	101498253	uncharacterized LOC101498253
SNP_19032_A_38708828	NC_021162.1	Ca_Kabuli_Chr03	38708828	GG	AA	AA	INTERGENIC		
SNP_19033_A_38738084	NC_021162.1	Ca_Kabuli_Chr03	38738084	AA	GG	GG	DRR	101501040	uncharacterized LOC101501040
SNP_19035_A_38869849	NC_021162.1	Ca_Kabuli_Chr03	38869849	TT	AA	AA	INTERGENIC		
SNP_19036_A_38870483	NC_021162.1	Ca_Kabuli_Chr03	38870483	AA	TT	TT	INTERGENIC		
SNP_19038_A_38900791	NC_021162.1	Ca_Kabuli_Chr03	38900791	AA	GG	GG	INTERGENIC		
SNP_19039_A_38900814	NC_021162.1	Ca_Kabuli_Chr03	38900814	AA	GG	GG	INTERGENIC		
SNP_19040_A_38900826	NC_021162.1	Ca_Kabuli_Chr03	38900826	CC	TT	TT	INTERGENIC		
SNP_19041_A_38901082	NC_021162.1	Ca_Kabuli_Chr03	38901082	TT	CC	CC	INTERGENIC		
SNP_19042_A_38902396	NC_021162.1	Ca_Kabuli_Chr03	38902396	AA	TT	TT	INTERGENIC		
SNP_19043_A_38902606	NC_021162.1	Ca_Kabuli_Chr03	38902606	AA	GG	GG	INTERGENIC		
SNP_19044_A_38902671	NC_021162.1	Ca_Kabuli_Chr03	38902671	TT	GG	GG	INTERGENIC		
SNP_19045_A_38955778	NC_021162.1	Ca_Kabuli_Chr03	38955778	GG	AA	AA	URR	101511209	protein PHR1-LIKE 1-like
SNP_19046_A_38958286	NC_021162.1	Ca_Kabuli_Chr03	38958286	GG	AA	AA	INTERGENIC		
SNP_19047_A_38958295	NC_021162.1	Ca_Kabuli_Chr03	38958295	AA	GG	GG	INTERGENIC		
SNP_19048_A_38958319	NC_021162.1	Ca_Kabuli_Chr03	38958319	CC	AA	AA	INTERGENIC		
SNP_19049_A_39156216	NC_021162.1	Ca_Kabuli_Chr03	39156216	GG	CC	CC	INTERGENIC		
SNP_19050_A_39179185	NC_021162.1	Ca_Kabuli_Chr03	39179185	TT	CC	CC	DRR	101492179	GDSL esterase/lipase At5g33370
SNP_19051_A_39179199	NC_021162.1	Ca_Kabuli_Chr03	39179199	CC	TT	TT	DRR	101492179	GDSL esterase/lipase At5g33370
SNP_19052_A_39251583	NC_021162.1	Ca_Kabuli_Chr03	39251583	TT	CC	CC	SYNONYMOUS_CODING	101495764	uncharacterized LOC101495764
SNP_19053_A_39293058	NC_021162.1	Ca_Kabuli_Chr03	39293058	TT	AA	AA	URR	101497932	BTB/POZ domain-containing protein POB1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19054_A_39326079	NC_021162.1	Ca_Kabuli_Chr03	39326079	TT	AA	AA	URR	101499665	putative glucose-6-phosphate 1-epimerase
SNP_19055_A_39396669	NC_021162.1	Ca_Kabuli_Chr03	39396669	AA	CC	CC	DRR	101505854	protein ROOT PRIMORDIUM DEFECTIVE 1
SNP_19056_A_39419265	NC_021162.1	Ca_Kabuli_Chr03	39419265	CC	AA	AA	INTERGENIC		
SNP_19057_A_39419727	NC_021162.1	Ca_Kabuli_Chr03	39419727	CC	TT	TT	INTERGENIC		
SNP_19059_A_39539026	NC_021162.1	Ca_Kabuli_Chr03	39539026	CC	TT	TT	INTERGENIC		
SNP_19061_A_39611014	NC_021162.1	Ca_Kabuli_Chr03	39611014	AA	TT	TT	INTERGENIC		
SNP_19062_A_39611027	NC_021162.1	Ca_Kabuli_Chr03	39611027	TT	CC	CC	INTERGENIC		
SNP_19064_A_39611094	NC_021162.1	Ca_Kabuli_Chr03	39611094	AA	CC	CC	INTERGENIC		
SNP_19065_A_39611320	NC_021162.1	Ca_Kabuli_Chr03	39611320	AA	GG	GG	INTRON	101490580	uncharacterized LOC101490580
SNP_19066_A_39611410	NC_021162.1	Ca_Kabuli_Chr03	39611410	TT	CC	CC	SYNONYMOUS_CODING	101490580	uncharacterized LOC101490580
SNP_19067_A_39611444	NC_021162.1	Ca_Kabuli_Chr03	39611444	GG	AA	AA	NON_SYNONYMOUS_CODING	101490580	uncharacterized LOC101490580
SNP_19068_A_39611446	NC_021162.1	Ca_Kabuli_Chr03	39611446	AA	TT	TT	NON_SYNONYMOUS_CODING	101490580	uncharacterized LOC101490580
SNP_19069_A_39611461	NC_021162.1	Ca_Kabuli_Chr03	39611461	GG	AA	AA	SPLICE_SITE_REGION	101490580	uncharacterized LOC101490580
SNP_19070_A_39611468	NC_021162.1	Ca_Kabuli_Chr03	39611468	CC	TT	TT	INTRON	101490580	uncharacterized LOC101490580
SNP_19071_A_39611490	NC_021162.1	Ca_Kabuli_Chr03	39611490	CC	TT	TT	INTRON	101490580	uncharacterized LOC101490580
SNP_19072_A_39628916	NC_021162.1	Ca_Kabuli_Chr03	39628916	AA	GG	GG	URR	101491962	cytochrome b5 isoform E-like
SNP_19074_A_39683421	NC_021162.1	Ca_Kabuli_Chr03	39683421	CC	GG	GG	URR	101494571	3-ketoacyl-CoA synthase 1-like
SNP_19075_A_39713805	NC_021162.1	Ca_Kabuli_Chr03	39713805	GG	AA	AA	INTERGENIC		
SNP_19077_A_39864815	NC_021162.1	Ca_Kabuli_Chr03	39864815	GG	CC	CC	INTERGENIC		
SNP_19078_A_39865286	NC_021162.1	Ca_Kabuli_Chr03	39865286	AA	TT	TT	INTERGENIC		
SNP_19079_A_39865460	NC_021162.1	Ca_Kabuli_Chr03	39865460	AA	CC	CC	INTERGENIC		
SNP_19080_A_39865465	NC_021162.1	Ca_Kabuli_Chr03	39865465	AA	TT	TT	INTERGENIC		

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SNP_19081_A_39866503	NC_021162.1	Ca_Kabuli_Chr03	39866503	GG	AA	AA	INTERGENIC		
SNP_19083_A_39906999	NC_021162.1	Ca_Kabuli_Chr03	39906999	TT	AA	AA	INTERGENIC		
SNP_19084_A_39929979	NC_021162.1	Ca_Kabuli_Chr03	39929979	CC	AA	AA	INTRON	101506079	ankyrin repeat-containing protein At5g02620-like
SNP_19085_A_39932592	NC_021162.1	Ca_Kabuli_Chr03	39932592	GG	AA	AA	INTRON	101506079	ankyrin repeat-containing protein At5g02620-like
SNP_19086_A_39934096	NC_021162.1	Ca_Kabuli_Chr03	39934096	CC	TT	TT	INTRON	101506079	ankyrin repeat-containing protein At5g02620-like
SNP_19087_A_39978056	NC_021162.1	Ca_Kabuli_Chr03	39978056	TT	CC	CC	INTERGENIC		
SNP_19088_A_39978389	NC_021162.1	Ca_Kabuli_Chr03	39978389	AA	GG	GG	INTERGENIC		
SNP_19089_A_39978422	NC_021162.1	Ca_Kabuli_Chr03	39978422	AA	GG	GG	INTERGENIC		
SNP_19090_A_39978427	NC_021162.1	Ca_Kabuli_Chr03	39978427	AA	GG	GG	INTERGENIC		
SNP_19091_A_39979079	NC_021162.1	Ca_Kabuli_Chr03	39979079	TT	GG	GG	INTERGENIC		
SNP_19092_A_39979104	NC_021162.1	Ca_Kabuli_Chr03	39979104	TT	CC	CC	INTERGENIC		
SNP_19093_A_39979119	NC_021162.1	Ca_Kabuli_Chr03	39979119	AA	GG	GG	INTERGENIC		
SNP_19094_A_39979173	NC_021162.1	Ca_Kabuli_Chr03	39979173	GG	CC	CC	INTERGENIC		
SNP_19095_A_39979504	NC_021162.1	Ca_Kabuli_Chr03	39979504	TT	AA	AA	INTERGENIC		
SNP_19096_A_39981442	NC_021162.1	Ca_Kabuli_Chr03	39981442	AA	TT	TT	INTERGENIC		
SNP_19097_A_39981443	NC_021162.1	Ca_Kabuli_Chr03	39981443	TT	GG	GG	INTERGENIC		
SNP_19098_A_39988165	NC_021162.1	Ca_Kabuli_Chr03	39988165	GG	CC	CC	INTERGENIC		
SNP_19099_A_39988204	NC_021162.1	Ca_Kabuli_Chr03	39988204	AA	CC	CC	INTERGENIC		
SNP_19100_A_39988413	NC_021162.1	Ca_Kabuli_Chr03	39988413	GG	AA	AA	INTERGENIC		
SNP_19101_A_39988431	NC_021162.1	Ca_Kabuli_Chr03	39988431	CC	TT	TT	INTERGENIC		
SNP_19103_A_13991	NC_021163.1	Ca_Kabuli_Chr04	13991	TT	CC	CC	INTERGENIC		
SNP_19104_A_17977	NC_021163.1	Ca_Kabuli_Chr04	17977	TT	GG	GG	DRR	101490377	probable transcription factor PosF21

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19105_A_17983	NC_021163.1	Ca_Kabuli_Chr04	17983	TT	CC	CC	DRR	101490377	probable transcription factor PosF21
SNP_19106_A_43120	NC_021163.1	Ca_Kabuli_Chr04	43120	AA	TT	TT	URR	101491016	uncharacterized LOC101491016
SNP_19107_A_79769	NC_021163.1	Ca_Kabuli_Chr04	79769	GG	AA	AA	INTERGENIC		
SNP_19108_A_80152	NC_021163.1	Ca_Kabuli_Chr04	80152	CC	AA	AA	INTERGENIC		
SNP_19109_A_80169	NC_021163.1	Ca_Kabuli_Chr04	80169	TT	CC	CC	INTERGENIC		
SNP_19110_A_80212	NC_021163.1	Ca_Kabuli_Chr04	80212	CC	TT	TT	INTERGENIC		
SNP_19111_A_80250	NC_021163.1	Ca_Kabuli_Chr04	80250	AA	GG	GG	INTERGENIC		
SNP_19112_A_80289	NC_021163.1	Ca_Kabuli_Chr04	80289	AA	GG	GG	INTERGENIC		
SNP_19113_A_85556	NC_021163.1	Ca_Kabuli_Chr04	85556	TT	GG	GG	INTERGENIC		
SNP_19114_A_85592	NC_021163.1	Ca_Kabuli_Chr04	85592	GG	CC	CC	INTERGENIC		
SNP_19115_A_85721	NC_021163.1	Ca_Kabuli_Chr04	85721	CC	TT	TT	INTERGENIC		
SNP_19116_A_85761	NC_021163.1	Ca_Kabuli_Chr04	85761	AA	TT	TT	INTERGENIC		
SNP_19117_A_86019	NC_021163.1	Ca_Kabuli_Chr04	86019	TT	GG	GG	INTERGENIC		
SNP_19118_A_113187	NC_021163.1	Ca_Kabuli_Chr04	113187	TT	CC	CC	INTERGENIC		
SNP_19119_A_113197	NC_021163.1	Ca_Kabuli_Chr04	113197	TT	AA	AA	INTERGENIC		
SNP_19120_A_130718	NC_021163.1	Ca_Kabuli_Chr04	130718	TT	GG	GG	INTERGENIC		
SNP_19121_A_130759	NC_021163.1	Ca_Kabuli_Chr04	130759	AA	GG	GG	INTERGENIC		
SNP_19122_A_130789	NC_021163.1	Ca_Kabuli_Chr04	130789	TT	CC	CC	INTERGENIC		
SNP_19123_A_130827	NC_021163.1	Ca_Kabuli_Chr04	130827	AA	GG	GG	INTERGENIC		
SNP_19124_A_130850	NC_021163.1	Ca_Kabuli_Chr04	130850	TT	CC	CC	INTERGENIC		
SNP_19125_A_130974	NC_021163.1	Ca_Kabuli_Chr04	130974	AA	GG	GG	INTERGENIC		
SNP_19126_A_131016	NC_021163.1	Ca_Kabuli_Chr04	131016	AA	GG	GG	INTERGENIC		

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SNP_19127_A_131032	NC_021163.1	Ca_Kabuli_Chr04	131032	CC	TT	TT	INTERGENIC		
SNP_19128_A_131049	NC_021163.1	Ca_Kabuli_Chr04	131049	TT	CC	CC	INTERGENIC		
SNP_19130_A_131091	NC_021163.1	Ca_Kabuli_Chr04	131091	GG	AA	AA	INTERGENIC		
SNP_19131_A_131093	NC_021163.1	Ca_Kabuli_Chr04	131093	CC	AA	AA	INTERGENIC		
SNP_19132_A_209064	NC_021163.1	Ca_Kabuli_Chr04	209064	GG	AA	AA	INTERGENIC		
SNP_19133_A_274365	NC_021163.1	Ca_Kabuli_Chr04	274365	AA	TT	TT	INTERGENIC		
SNP_19134_A_274366	NC_021163.1	Ca_Kabuli_Chr04	274366	TT	AA	AA	INTERGENIC		
SNP_19135_A_274479	NC_021163.1	Ca_Kabuli_Chr04	274479	CC	AA	AA	INTERGENIC		
SNP_19137_A_357234	NC_021163.1	Ca_Kabuli_Chr04	357234	CC	TT	TT	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19138_A_357397	NC_021163.1	Ca_Kabuli_Chr04	357397	TT	AA	AA	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19139_A_357527	NC_021163.1	Ca_Kabuli_Chr04	357527	CC	TT	TT	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19140_A_357529	NC_021163.1	Ca_Kabuli_Chr04	357529	CC	TT	TT	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19141_A_357562	NC_021163.1	Ca_Kabuli_Chr04	357562	TT	CC	CC	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19142_A_357582	NC_021163.1	Ca_Kabuli_Chr04	357582	TT	GG	GG	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19143_A_357637	NC_021163.1	Ca_Kabuli_Chr04	357637	AA	CC	CC	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19144_A_357650	NC_021163.1	Ca_Kabuli_Chr04	357650	GG	AA	AA	INTRON	101499046	pentatricopeptide repeat-containing protein At3g02650, mitochondrial-like
SNP_19145_A_417882	NC_021163.1	Ca_Kabuli_Chr04	417882	AA	GG	GG	URR	101499977	Unknown function
SNP_19146_A_417895	NC_021163.1	Ca_Kabuli_Chr04	417895	CC	TT	TT	URR	101499977	Unknown function
SNP_19147_A_417904	NC_021163.1	Ca_Kabuli_Chr04	417904	GG	AA	AA	URR	101499977	Unknown function
SNP_19148_A_418186	NC_021163.1	Ca_Kabuli_Chr04	418186	AA	GG	GG	URR	101499977	Unknown function
SNP_19149_A_418250	NC_021163.1	Ca_Kabuli_Chr04	418250	AA	CC	CC	URR	101499977	Unknown function
SNP_19150_A_421894	NC_021163.1	Ca_Kabuli_Chr04	421894	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19151_A_471800	NC_021163.1	Ca_Kabuli_Chr04	471800	CC	TT	TT	URR	101502541	probable histone H2B.3-like
SNP_19152_A_674431	NC_021163.1	Ca_Kabuli_Chr04	674431	GG	AA	AA	URR	101508535	monothiol glutaredoxin-S10
SNP_19153_A_714229	NC_021163.1	Ca_Kabuli_Chr04	714229	AA	TT	TT	INTRON	101509172	myosin-6-like
SNP_19154_A_823929	NC_021163.1	Ca_Kabuli_Chr04	823929	CC	AA	AA	INTRON	101514243	ABC transporter C family member 5
SNP_19155_A_823931	NC_021163.1	Ca_Kabuli_Chr04	823931	TT	CC	CC	INTRON	101514243	ABC transporter C family member 5
SNP_19156_A_823946	NC_021163.1	Ca_Kabuli_Chr04	823946	AA	GG	GG	INTRON	101514243	ABC transporter C family member 5
SNP_19157_A_823967	NC_021163.1	Ca_Kabuli_Chr04	823967	AA	CC	CC	INTRON	101514243	ABC transporter C family member 5
SNP_19158_A_823970	NC_021163.1	Ca_Kabuli_Chr04	823970	TT	CC	CC	INTRON	101514243	ABC transporter C family member 5
SNP_19159_A_958445	NC_021163.1	Ca_Kabuli_Chr04	958445	AA	GG	GG	INTERGENIC		
SNP_19161_A_982276	NC_021163.1	Ca_Kabuli_Chr04	982276	AA	GG	GG	NON_SYNONYMOUS_CODING	101503176	CRIB domain-containing protein RIC7-like
SNP_19162_A_1023040	NC_021163.1	Ca_Kabuli_Chr04	1023040	TT	AA	AA	INTERGENIC		
SNP_19163_A_1055878	NC_021163.1	Ca_Kabuli_Chr04	1055878	CC	GG	GG	URR	101496185	uncharacterized protein At1g03900
SNP_19164_A_1089346	NC_021163.1	Ca_Kabuli_Chr04	1089346	TT	CC	CC	INTERGENIC		
SNP_19166_A_1227317	NC_021163.1	Ca_Kabuli_Chr04	1227317	GG	AA	AA	DRR	101502737	ethylene-responsive transcription factor ERF098-like
SNP_19167_A_1233809	NC_021163.1	Ca_Kabuli_Chr04	1233809	GG	TT	TT	INTERGENIC		
SNP_19168_A_1273383	NC_021163.1	Ca_Kabuli_Chr04	1273383	AA	GG	GG	URR	101504046	autophagy-related protein 9
SNP_19170_A_1309137	NC_021163.1	Ca_Kabuli_Chr04	1309137	CC	TT	TT	URR	101505204	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_19172_A_1332059	NC_021163.1	Ca_Kabuli_Chr04	1332059	TT	CC	CC	INTERGENIC		
SNP_19173_A_1337990	NC_021163.1	Ca_Kabuli_Chr04	1337990	CC	GG	GG	URR	101505857	LOB domain-containing protein 29
SNP_19175_A_1408998	NC_021163.1	Ca_Kabuli_Chr04	1408998	CC	TT	TT	INTERGENIC		
SNP_19176_A_1416664	NC_021163.1	Ca_Kabuli_Chr04	1416664	GG	AA	AA	DRR	101508331	cytochrome P450 94A2-like
SNP_19177_A_1474086	NC_021163.1	Ca_Kabuli_Chr04	1474086	AA	CC	CC	DRR	101510135	histone H1

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SNP_19178_A_1521075	NC_021163.1	Ca_Kabuli_Chr04	1521075	AA	GG	GG	URR	101512174	signal recognition particle 9 kDa protein
SNP_19179_A_1536859	NC_021163.1	Ca_Kabuli_Chr04	1536859	TT	CC	CC	INTERGENIC		
SNP_19180_A_1556316	NC_021163.1	Ca_Kabuli_Chr04	1556316	GG	AA	AA	INTRON	101513032	probable galacturonosyltransferase 6
SNP_19181_A_1596982	NC_021163.1	Ca_Kabuli_Chr04	1596982	GG	AA	AA	INTERGENIC		
SNP_19182_A_1597120	NC_021163.1	Ca_Kabuli_Chr04	1597120	TT	CC	CC	INTERGENIC		
SNP_19183_A_1605325	NC_021163.1	Ca_Kabuli_Chr04	1605325	AA	CC	CC	INTERGENIC		
SNP_19185_A_1676975	NC_021163.1	Ca_Kabuli_Chr04	1676975	CC	TT	TT	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19186_A_1676981	NC_021163.1	Ca_Kabuli_Chr04	1676981	TT	CC	CC	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19187_A_1677022	NC_021163.1	Ca_Kabuli_Chr04	1677022	GG	AA	AA	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19188_A_1677032	NC_021163.1	Ca_Kabuli_Chr04	1677032	GG	TT	TT	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19189_A_1677042	NC_021163.1	Ca_Kabuli_Chr04	1677042	AA	CC	CC	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19190_A_1677101	NC_021163.1	Ca_Kabuli_Chr04	1677101	TT	AA	AA	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19191_A_1677197	NC_021163.1	Ca_Kabuli_Chr04	1677197	GG	AA	AA	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19192_A_1677209	NC_021163.1	Ca_Kabuli_Chr04	1677209	TT	AA	AA	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19193_A_1677215	NC_021163.1	Ca_Kabuli_Chr04	1677215	GG	CC	CC	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19194_A_1677219	NC_021163.1	Ca_Kabuli_Chr04	1677219	TT	GG	GG	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19195_A_1677233	NC_021163.1	Ca_Kabuli_Chr04	1677233	TT	CC	CC	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19196_A_1677241	NC_021163.1	Ca_Kabuli_Chr04	1677241	TT	CC	CC	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19197_A_1677242	NC_021163.1	Ca_Kabuli_Chr04	1677242	GG	AA	AA	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19199_A_1677466	NC_021163.1	Ca_Kabuli_Chr04	1677466	CC	TT	TT	INTRON	101490148	guanine nucleotide-binding protein subunit gamma 2
SNP_19200_A_1707575	NC_021163.1	Ca_Kabuli_Chr04	1707575	TT	AA	AA	SYNONYMOUS_CODING	101492182	BEACH domain-containing protein lvsA
SNP_19201_A_1762477	NC_021163.1	Ca_Kabuli_Chr04	1762477	CC	AA	AA	URR	101493300	protein indeterminate-domain 7

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SNP_19202_A_1763741	NC_021163.1	Ca_Kabuli_Chr04	1763741	AA	TT	TT	URR	101493300	protein indeterminate-domain 7
SNP_19203_A_1765656	NC_021163.1	Ca_Kabuli_Chr04	1765656	CC	TT	TT	INTERGENIC		
SNP_19204_A_1766023	NC_021163.1	Ca_Kabuli_Chr04	1766023	GG	AA	AA	INTERGENIC		
SNP_19205_A_1767743	NC_021163.1	Ca_Kabuli_Chr04	1767743	AA	GG	GG	INTERGENIC		
SNP_19208_A_1779838	NC_021163.1	Ca_Kabuli_Chr04	1779838	CC	TT	TT	URR	101493622	heat stress transcription factor A-6b-like
SNP_19209_A_1780202	NC_021163.1	Ca_Kabuli_Chr04	1780202	GG	TT	TT	DRR	101494572	uncharacterized LOC101494572
SNP_19210_A_1781745	NC_021163.1	Ca_Kabuli_Chr04	1781745	GG	AA	AA	SYNONYMOUS_CODING	101494572	uncharacterized LOC101494572
SNP_19211_A_1781806	NC_021163.1	Ca_Kabuli_Chr04	1781806	CC	AA	AA	NON_SYNONYMOUS_CODING	101494572	uncharacterized LOC101494572
SNP_19213_A_1786768	NC_021163.1	Ca_Kabuli_Chr04	1786768	TT	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19214_A_1788433	NC_021163.1	Ca_Kabuli_Chr04	1788433	GG	AA	AA	INTRON	101494572	uncharacterized LOC101494572
SNP_19215_A_1789390	NC_021163.1	Ca_Kabuli_Chr04	1789390	TT	CC	CC	INTRON	101494572	uncharacterized LOC101494572
SNP_19216_A_1789434	NC_021163.1	Ca_Kabuli_Chr04	1789434	CC	AA	AA	INTRON	101494572	uncharacterized LOC101494572
SNP_19217_A_1789590	NC_021163.1	Ca_Kabuli_Chr04	1789590	TT	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19218_A_1789648	NC_021163.1	Ca_Kabuli_Chr04	1789648	TT	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19219_A_1791871	NC_021163.1	Ca_Kabuli_Chr04	1791871	AA	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19221_A_1791990	NC_021163.1	Ca_Kabuli_Chr04	1791990	AA	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19222_A_1792114	NC_021163.1	Ca_Kabuli_Chr04	1792114	GG	AA	AA	INTRON	101494572	uncharacterized LOC101494572
SNP_19223_A_1795380	NC_021163.1	Ca_Kabuli_Chr04	1795380	GG	AA	AA	INTRON	101494572	uncharacterized LOC101494572
SNP_19224_A_1800269	NC_021163.1	Ca_Kabuli_Chr04	1800269	AA	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19225_A_1806726	NC_021163.1	Ca_Kabuli_Chr04	1806726	AA	GG	GG	INTRON	101494572	uncharacterized LOC101494572
SNP_19227_A_1812891	NC_021163.1	Ca_Kabuli_Chr04	1812891	AA	GG	GG	DRR	101494888	ETO1-like protein 1
SNP_19228_A_1813211	NC_021163.1	Ca_Kabuli_Chr04	1813211	TT	AA	AA	DRR	101494888	ETO1-like protein 1

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SNP_19229_A_1813759	NC_021163.1	Ca_Kabuli_Chr04	1813759	AA	TT	TT	INTERGENIC			
SNP_19230_A_1818840	NC_021163.1	Ca_Kabuli_Chr04	1818840	AA	CC	CC	URR	101494888	ETO1-like protein 1	
SNP_19231_A_1821752	NC_021163.1	Ca_Kabuli_Chr04	1821752	CC	TT	TT	INTERGENIC			
SNP_19232_A_1821753	NC_021163.1	Ca_Kabuli_Chr04	1821753	AA	CC	CC	INTERGENIC			
SNP_19233_A_1822245	NC_021163.1	Ca_Kabuli_Chr04	1822245	GG	AA	AA	INTERGENIC			
SNP_19234_A_1822247	NC_021163.1	Ca_Kabuli_Chr04	1822247	GG	AA	AA	INTERGENIC			
SNP_19235_A_1822261	NC_021163.1	Ca_Kabuli_Chr04	1822261	TT	CC	CC	INTERGENIC			
SNP_19236_A_1823903	NC_021163.1	Ca_Kabuli_Chr04	1823903	TT	CC	CC	INTERGENIC			
SNP_19237_A_1823954	NC_021163.1	Ca_Kabuli_Chr04	1823954	AA	CC	CC	INTERGENIC			
SNP_19238_A_1824304	NC_021163.1	Ca_Kabuli_Chr04	1824304	GG	AA	AA	INTERGENIC			
SNP_19239_A_1824309	NC_021163.1	Ca_Kabuli_Chr04	1824309	GG	AA	AA	INTERGENIC			
SNP_19240_A_1824650	NC_021163.1	Ca_Kabuli_Chr04	1824650	CC	TT	TT	INTERGENIC			
SNP_19241_A_1824739	NC_021163.1	Ca_Kabuli_Chr04	1824739	CC	TT	TT	INTERGENIC			
SNP_19242_A_1825483	NC_021163.1	Ca_Kabuli_Chr04	1825483	AA	GG	GG	INTERGENIC			
SNP_19243_A_1826663	NC_021163.1	Ca_Kabuli_Chr04	1826663	CC	AA	AA	INTERGENIC			
SNP_19244_A_1826678	NC_021163.1	Ca_Kabuli_Chr04	1826678	AA	GG	GG	INTERGENIC			
SNP_19245_A_1827639	NC_021163.1	Ca_Kabuli_Chr04	1827639	GG	AA	AA	DRR	101495859	BI1-like protein	
SNP_19246_A_1827673	NC_021163.1	Ca_Kabuli_Chr04	1827673	GG	TT	TT	DRR	101495859	BI1-like protein	
SNP_19247_A_1830715	NC_021163.1	Ca_Kabuli_Chr04	1830715	CC	TT	TT	URR	101495859	BI1-like protein	
SNP_19248_A_1830863	NC_021163.1	Ca_Kabuli_Chr04	1830863	GG	TT	TT	URR	101495859	BI1-like protein	
SNP_19250_A_1833143	NC_021163.1	Ca_Kabuli_Chr04	1833143	AA	TT	TT	INTERGENIC			
SNP_19251_A_1834292	NC_021163.1	Ca_Kabuli_Chr04	1834292	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19253_A_1840074	NC_021163.1	Ca_Kabuli_Chr04	1840074	TT	CC	CC	INTERGENIC		
SNP_19254_A_1844407	NC_021163.1	Ca_Kabuli_Chr04	1844407	GG	AA	AA	URR	101496515	uncharacterized LOC101496515
SNP_19255_A_1847451	NC_021163.1	Ca_Kabuli_Chr04	1847451	GG	CC	CC	INTRON	101496848	serine/threonine-protein kinase Nek4
SNP_19256_A_1847749	NC_021163.1	Ca_Kabuli_Chr04	1847749	TT	GG	GG	INTRON	101496848	serine/threonine-protein kinase Nek4
SNP_19258_A_1849634	NC_021163.1	Ca_Kabuli_Chr04	1849634	AA	GG	GG	URR	101496848	serine/threonine-protein kinase Nek4
SNP_19260_A_1858388	NC_021163.1	Ca_Kabuli_Chr04	1858388	AA	CC	CC	INTERGENIC		
SNP_19261_A_1858441	NC_021163.1	Ca_Kabuli_Chr04	1858441	TT	GG	GG	INTERGENIC		
SNP_19263_A_1859517	NC_021163.1	Ca_Kabuli_Chr04	1859517	CC	TT	TT	INTERGENIC		
SNP_19264_A_1859832	NC_021163.1	Ca_Kabuli_Chr04	1859832	TT	CC	CC	INTERGENIC		
SNP_19265_A_1859844	NC_021163.1	Ca_Kabuli_Chr04	1859844	TT	CC	CC	INTERGENIC		
SNP_19266_A_1859887	NC_021163.1	Ca_Kabuli_Chr04	1859887	CC	TT	TT	INTERGENIC		
SNP_19267_A_1861758	NC_021163.1	Ca_Kabuli_Chr04	1861758	CC	TT	TT	INTERGENIC		
SNP_19268_A_1866558	NC_021163.1	Ca_Kabuli_Chr04	1866558	GG	AA	AA	INTERGENIC		
SNP_19269_A_1867618	NC_021163.1	Ca_Kabuli_Chr04	1867618	AA	GG	GG	INTERGENIC		
SNP_19270_A_1870666	NC_021163.1	Ca_Kabuli_Chr04	1870666	CC	GG	GG	INTERGENIC		
SNP_19271_A_1871064	NC_021163.1	Ca_Kabuli_Chr04	1871064	TT	CC	CC	INTERGENIC		
SNP_19272_A_1874813	NC_021163.1	Ca_Kabuli_Chr04	1874813	CC	TT	TT	INTRON	101497505	protein NETWORKED 1D
SNP_19273_A_1874826	NC_021163.1	Ca_Kabuli_Chr04	1874826	AA	TT	TT	INTRON	101497505	protein NETWORKED 1D
SNP_19274_A_1882550	NC_021163.1	Ca_Kabuli_Chr04	1882550	CC	TT	TT	INTERGENIC		
SNP_19275_A_1903951	NC_021163.1	Ca_Kabuli_Chr04	1903951	AA	GG	GG	INTERGENIC		
SNP_19276_A_1904694	NC_021163.1	Ca_Kabuli_Chr04	1904694	AA	GG	GG	INTERGENIC		
SNP_19279_A_2023425	NC_021163.1	Ca_Kabuli_Chr04	2023425	TT	CC	CC	SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19280_A_2023429	NC_021163.1	Ca_Kabuli_Chr04	2023429	GG	AA	AA	NON_SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19281_A_2024095	NC_021163.1	Ca_Kabuli_Chr04	2024095	GG	AA	AA	NON_SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19282_A_2024108	NC_021163.1	Ca_Kabuli_Chr04	2024108	AA	GG	GG	NON_SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19283_A_2024112	NC_021163.1	Ca_Kabuli_Chr04	2024112	GG	AA	AA	SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19284_A_2024132	NC_021163.1	Ca_Kabuli_Chr04	2024132	GG	CC	CC	NON_SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19285_A_2024142	NC_021163.1	Ca_Kabuli_Chr04	2024142	GG	CC	CC	SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19286_A_2024144	NC_021163.1	Ca_Kabuli_Chr04	2024144	CC	AA	AA	NON_SYNONYMOUS_CODING	101502954	NF-kappa-B-activating protein
SNP_19288_A_2032225	NC_021163.1	Ca_Kabuli_Chr04	2032225	CC	TT	TT	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19289_A_2032243	NC_021163.1	Ca_Kabuli_Chr04	2032243	TT	CC	CC	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19290_A_2032329	NC_021163.1	Ca_Kabuli_Chr04	2032329	CC	TT	TT	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19291_A_2032374	NC_021163.1	Ca_Kabuli_Chr04	2032374	GG	AA	AA	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19292_A_2032396	NC_021163.1	Ca_Kabuli_Chr04	2032396	GG	CC	CC	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19293_A_2032416	NC_021163.1	Ca_Kabuli_Chr04	2032416	CC	GG	GG	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19294_A_2032449	NC_021163.1	Ca_Kabuli_Chr04	2032449	AA	GG	GG	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19295_A_2032480	NC_021163.1	Ca_Kabuli_Chr04	2032480	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19296_A_2032481	NC_021163.1	Ca_Kabuli_Chr04	2032481	GG	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19297_A_2032510	NC_021163.1	Ca_Kabuli_Chr04	2032510	AA	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19298_A_2032529	NC_021163.1	Ca_Kabuli_Chr04	2032529	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19300_A_2032567	NC_021163.1	Ca_Kabuli_Chr04	2032567	TT	CC	CC	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19301_A_2032582	NC_021163.1	Ca_Kabuli_Chr04	2032582	CC	TT	TT	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19302_A_2032636	NC_021163.1	Ca_Kabuli_Chr04	2032636	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19303_A_2032638	NC_021163.1	Ca_Kabuli_Chr04	2032638	TT	AA	AA	INTRON	101503280	crooked neck-like protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19304_A_2032773	NC_021163.1	Ca_Kabuli_Chr04	2032773	AA	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19305_A_2032846	NC_021163.1	Ca_Kabuli_Chr04	2032846	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19306_A_2032858	NC_021163.1	Ca_Kabuli_Chr04	2032858	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19307_A_2032866	NC_021163.1	Ca_Kabuli_Chr04	2032866	GG	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19308_A_2032904	NC_021163.1	Ca_Kabuli_Chr04	2032904	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19309_A_2034107	NC_021163.1	Ca_Kabuli_Chr04	2034107	GG	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19310_A_2034132	NC_021163.1	Ca_Kabuli_Chr04	2034132	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19311_A_2034149	NC_021163.1	Ca_Kabuli_Chr04	2034149	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19312_A_2034152	NC_021163.1	Ca_Kabuli_Chr04	2034152	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19313_A_2034169	NC_021163.1	Ca_Kabuli_Chr04	2034169	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19314_A_2034182	NC_021163.1	Ca_Kabuli_Chr04	2034182	CC	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19315_A_2034186	NC_021163.1	Ca_Kabuli_Chr04	2034186	CC	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19316_A_2034266	NC_021163.1	Ca_Kabuli_Chr04	2034266	CC	TT	TT	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19317_A_2034304	NC_021163.1	Ca_Kabuli_Chr04	2034304	GG	AA	AA	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19318_A_2034340	NC_021163.1	Ca_Kabuli_Chr04	2034340	AA	CC	CC	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19319_A_2034385	NC_021163.1	Ca_Kabuli_Chr04	2034385	CC	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19320_A_2034396	NC_021163.1	Ca_Kabuli_Chr04	2034396	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19321_A_2034398	NC_021163.1	Ca_Kabuli_Chr04	2034398	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19323_A_2034505	NC_021163.1	Ca_Kabuli_Chr04	2034505	GG	AA	AA	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19324_A_2034547	NC_021163.1	Ca_Kabuli_Chr04	2034547	GG	AA	AA	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19325_A_2034556	NC_021163.1	Ca_Kabuli_Chr04	2034556	GG	AA	AA	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19326_A_2034717	NC_021163.1	Ca_Kabuli_Chr04	2034717	GG	CC	CC	INTRON	101503280	crooked neck-like protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19327_A_2034721	NC_021163.1	Ca_Kabuli_Chr04	2034721	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19328_A_2034756	NC_021163.1	Ca_Kabuli_Chr04	2034756	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19329_A_2034757	NC_021163.1	Ca_Kabuli_Chr04	2034757	AA	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19330_A_2034768	NC_021163.1	Ca_Kabuli_Chr04	2034768	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19331_A_2034835	NC_021163.1	Ca_Kabuli_Chr04	2034835	GG	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19332_A_2034850	NC_021163.1	Ca_Kabuli_Chr04	2034850	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19333_A_2034894	NC_021163.1	Ca_Kabuli_Chr04	2034894	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19334_A_2034900	NC_021163.1	Ca_Kabuli_Chr04	2034900	AA	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19335_A_2034952	NC_021163.1	Ca_Kabuli_Chr04	2034952	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19336_A_2034974	NC_021163.1	Ca_Kabuli_Chr04	2034974	GG	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19337_A_2035015	NC_021163.1	Ca_Kabuli_Chr04	2035015	GG	TT	TT	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19338_A_2035016	NC_021163.1	Ca_Kabuli_Chr04	2035016	TT	AA	AA	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19339_A_2035035	NC_021163.1	Ca_Kabuli_Chr04	2035035	GG	CC	CC	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19340_A_2035047	NC_021163.1	Ca_Kabuli_Chr04	2035047	AA	TT	TT	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19341_A_2035090	NC_021163.1	Ca_Kabuli_Chr04	2035090	TT	CC	CC	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19342_A_2035166	NC_021163.1	Ca_Kabuli_Chr04	2035166	AA	GG	GG	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19343_A_2035174	NC_021163.1	Ca_Kabuli_Chr04	2035174	CC	TT	TT	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19344_A_2035187	NC_021163.1	Ca_Kabuli_Chr04	2035187	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19345_A_2035188	NC_021163.1	Ca_Kabuli_Chr04	2035188	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19346_A_2035191	NC_021163.1	Ca_Kabuli_Chr04	2035191	AA	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19347_A_2035192	NC_021163.1	Ca_Kabuli_Chr04	2035192	CC	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19349_A_2035329	NC_021163.1	Ca_Kabuli_Chr04	2035329	AA	CC	CC	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1

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SNP_19350_A_2035330	NC_021163.1	Ca_Kabuli_Chr04	2035330	GG	CC	CC	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19351_A_2035400	NC_021163.1	Ca_Kabuli_Chr04	2035400	AA	GG	GG	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19352_A_2035405	NC_021163.1	Ca_Kabuli_Chr04	2035405	GG	AA	AA	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19353_A_2035415	NC_021163.1	Ca_Kabuli_Chr04	2035415	CC	TT	TT	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19354_A_2035525	NC_021163.1	Ca_Kabuli_Chr04	2035525	AA	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19355_A_2035526	NC_021163.1	Ca_Kabuli_Chr04	2035526	GG	AA	AA	INTRON	101503280	crooked neck-like protein 1
SNP_19356_A_2035530	NC_021163.1	Ca_Kabuli_Chr04	2035530	CC	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19357_A_2035543	NC_021163.1	Ca_Kabuli_Chr04	2035543	GG	TT	TT	INTRON	101503280	crooked neck-like protein 1
SNP_19358_A_2035561	NC_021163.1	Ca_Kabuli_Chr04	2035561	TT	GG	GG	INTRON	101503280	crooked neck-like protein 1
SNP_19359_A_2035678	NC_021163.1	Ca_Kabuli_Chr04	2035678	TT	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19360_A_2035692	NC_021163.1	Ca_Kabuli_Chr04	2035692	AA	CC	CC	INTRON	101503280	crooked neck-like protein 1
SNP_19362_A_2035720	NC_021163.1	Ca_Kabuli_Chr04	2035720	TT	CC	CC	SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19363_A_2035757	NC_021163.1	Ca_Kabuli_Chr04	2035757	CC	TT	TT	NON_SYNONYMOUS_CODING	101503280	crooked neck-like protein 1
SNP_19365_A_2035841	NC_021163.1	Ca_Kabuli_Chr04	2035841	TT	CC	CC	DRR	101503280	crooked neck-like protein 1
SNP_19366_A_2035894	NC_021163.1	Ca_Kabuli_Chr04	2035894	AA	CC	CC	DRR	101503280	crooked neck-like protein 1
SNP_19367_A_2035921	NC_021163.1	Ca_Kabuli_Chr04	2035921	AA	TT	TT	DRR	101503280	crooked neck-like protein 1
SNP_19368_A_2035923	NC_021163.1	Ca_Kabuli_Chr04	2035923	GG	AA	AA	DRR	101503280	crooked neck-like protein 1
SNP_19369_A_2035930	NC_021163.1	Ca_Kabuli_Chr04	2035930	AA	TT	TT	DRR	101503280	crooked neck-like protein 1
SNP_19370_A_2035955	NC_021163.1	Ca_Kabuli_Chr04	2035955	CC	AA	AA	DRR	101503280	crooked neck-like protein 1
SNP_19371_A_2036101	NC_021163.1	Ca_Kabuli_Chr04	2036101	TT	AA	AA	URR	101503280	crooked neck-like protein 1
SNP_19372_A_2036112	NC_021163.1	Ca_Kabuli_Chr04	2036112	AA	CC	CC	URR	101503280	crooked neck-like protein 1
SNP_19373_A_2036118	NC_021163.1	Ca_Kabuli_Chr04	2036118	TT	AA	AA	URR	101503280	crooked neck-like protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19374_A_2080262	NC_021163.1	Ca_Kabuli_Chr04	2080262	GG	TT	TT	INTERGENIC		
SNP_19375_A_2097121	NC_021163.1	Ca_Kabuli_Chr04	2097121	AA	GG	GG	INTERGENIC		
SNP_19376_A_2110908	NC_021163.1	Ca_Kabuli_Chr04	2110908	CC	TT	TT	DRR	101505528	chloroplast stem-loop binding protein of 41 kDa a, chloroplastic
SNP_19377_A_2122788	NC_021163.1	Ca_Kabuli_Chr04	2122788	TT	CC	CC	URR	101505859	uncharacterized LOC101505859
SNP_19379_A_2185341	NC_021163.1	Ca_Kabuli_Chr04	2185341	CC	TT	TT	INTERGENIC		
SNP_19380_A_2211561	NC_021163.1	Ca_Kabuli_Chr04	2211561	TT	CC	CC	DRR	101507064	transcription factor bHLH83
SNP_19382_A_2469045	NC_021163.1	Ca_Kabuli_Chr04	2469045	AA	TT	TT	URR	101490701	cyclin-dependent kinase inhibitor 4-like
SNP_19383_A_2472815	NC_021163.1	Ca_Kabuli_Chr04	2472815	GG	AA	AA	INTERGENIC		
SNP_19384_A_2556907	NC_021163.1	Ca_Kabuli_Chr04	2556907	CC	AA	AA	URR	101494361	3-isopropylmalate dehydratase large subunit-like
SNP_19385_A_2556914	NC_021163.1	Ca_Kabuli_Chr04	2556914	TT	CC	CC	URR	101494361	3-isopropylmalate dehydratase large subunit-like
SNP_19386_A_2556922	NC_021163.1	Ca_Kabuli_Chr04	2556922	CC	TT	TT	URR	101494361	3-isopropylmalate dehydratase large subunit-like
SNP_19387_A_2556928	NC_021163.1	Ca_Kabuli_Chr04	2556928	AA	TT	TT	URR	101494361	3-isopropylmalate dehydratase large subunit-like
SNP_19388_A_2556982	NC_021163.1	Ca_Kabuli_Chr04	2556982	GG	AA	AA	URR	101494361	3-isopropylmalate dehydratase large subunit-like
SNP_19389_A_2568526	NC_021163.1	Ca_Kabuli_Chr04	2568526	AA	GG	GG	URR	101495212	uncharacterized LOC101495212
SNP_19391_A_2612361	NC_021163.1	Ca_Kabuli_Chr04	2612361	CC	TT	TT	URR	101509594	uncharacterized protein At5g64816
SNP_19392_A_2687996	NC_021163.1	Ca_Kabuli_Chr04	2687996	TT	AA	AA	DRR	101502327	AT-hook motif nuclear-localized protein 20-like
SNP_19393_A_2688002	NC_021163.1	Ca_Kabuli_Chr04	2688002	CC	TT	TT	DRR	101502327	AT-hook motif nuclear-localized protein 20-like
SNP_19394_A_2688270	NC_021163.1	Ca_Kabuli_Chr04	2688270	AA	GG	GG	DRR	101502327	AT-hook motif nuclear-localized protein 20-like
SNP_19397_A_2743187	NC_021163.1	Ca_Kabuli_Chr04	2743187	AA	TT	TT	INTERGENIC		
SNP_19400_A_2854458	NC_021163.1	Ca_Kabuli_Chr04	2854458	CC	TT	TT	INTERGENIC		
SNP_19401_A_2883725	NC_021163.1	Ca_Kabuli_Chr04	2883725	CC	AA	AA	DRR	101490150	probable inorganic phosphate transporter 1-3
SNP_19402_A_2883731	NC_021163.1	Ca_Kabuli_Chr04	2883731	CC	TT	TT	DRR	101490150	probable inorganic phosphate transporter 1-3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19403_A_2884267	NC_021163.1	Ca_Kabuli_Chr04	2884267	AA	GG	GG	DRR	101490150	probable inorganic phosphate transporter 1-3
SNP_19405_A_2894167	NC_021163.1	Ca_Kabuli_Chr04	2894167	CC	TT	TT	URR	101490799	inorganic phosphate transporter 1-4-like
SNP_19406_A_2894168	NC_021163.1	Ca_Kabuli_Chr04	2894168	TT	CC	CC	URR	101490799	inorganic phosphate transporter 1-4-like
SNP_19407_A_2894655	NC_021163.1	Ca_Kabuli_Chr04	2894655	AA	GG	GG	URR	101490799	inorganic phosphate transporter 1-4-like
SNP_19410_A_2909555	NC_021163.1	Ca_Kabuli_Chr04	2909555	TT	GG	GG	URR	101491439	DNA-directed RNA polymerase V subunit 7
SNP_19411_A_2916073	NC_021163.1	Ca_Kabuli_Chr04	2916073	GG	AA	AA	INTERGENIC		
SNP_19412_A_2916138	NC_021163.1	Ca_Kabuli_Chr04	2916138	AA	GG	GG	INTERGENIC		
SNP_19413_A_2916537	NC_021163.1	Ca_Kabuli_Chr04	2916537	CC	TT	TT	INTERGENIC		
SNP_19414_A_2920096	NC_021163.1	Ca_Kabuli_Chr04	2920096	TT	CC	CC	DRR	101492853	protein SIEVE ELEMENT OCCLUSION B-like
SNP_19416_A_2973659	NC_021163.1	Ca_Kabuli_Chr04	2973659	AA	GG	GG	INTERGENIC		
SNP_19417_A_2988554	NC_021163.1	Ca_Kabuli_Chr04	2988554	AA	TT	TT	INTERGENIC		
SNP_19418_A_2999510	NC_021163.1	Ca_Kabuli_Chr04	2999510	CC	TT	TT	DRR	101497175	ureidoglycolate hydrolase
SNP_19422_A_3159935	NC_021163.1	Ca_Kabuli_Chr04	3159935	AA	TT	TT	URR	101502739	probable 60S ribosomal protein L14
SNP_19423_A_3239502	NC_021163.1	Ca_Kabuli_Chr04	3239502	TT	AA	AA	DRR	101505861	serine/threonine-protein kinase tricorner
SNP_19424_A_3239505	NC_021163.1	Ca_Kabuli_Chr04	3239505	TT	AA	AA	DRR	101505861	serine/threonine-protein kinase tricorner
SNP_19425_A_3266921	NC_021163.1	Ca_Kabuli_Chr04	3266921	AA	GG	GG	URR	101506840	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 3
SNP_19426_A_3355854	NC_021163.1	Ca_Kabuli_Chr04	3355854	AA	GG	GG	INTRON	101510457	magnesium transporter MRS2-2-like
SNP_19427_A_3355865	NC_021163.1	Ca_Kabuli_Chr04	3355865	GG	CC	CC	INTRON	101510457	magnesium transporter MRS2-2-like
SNP_19428_A_3355909	NC_021163.1	Ca_Kabuli_Chr04	3355909	GG	CC	CC	INTRON	101510457	magnesium transporter MRS2-2-like
SNP_19429_A_3355921	NC_021163.1	Ca_Kabuli_Chr04	3355921	AA	CC	CC	INTRON	101510457	magnesium transporter MRS2-2-like
SNP_19430_A_3392394	NC_021163.1	Ca_Kabuli_Chr04	3392394	TT	AA	AA	URR	101512178	auxin-induced protein 22B-like
SNP_19431_A_3556246	NC_021163.1	Ca_Kabuli_Chr04	3556246	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19432_A_3581161	NC_021163.1	Ca_Kabuli_Chr04	3581161	CC	GG	GG	INTERGENIC		
SNP_19433_A_3791344	NC_021163.1	Ca_Kabuli_Chr04	3791344	TT	CC	CC	INTRON	101501044	uncharacterized LOC101501044
SNP_19434_A_3791346	NC_021163.1	Ca_Kabuli_Chr04	3791346	TT	CC	CC	INTRON	101501044	uncharacterized LOC101501044
SNP_19436_A_3833261	NC_021163.1	Ca_Kabuli_Chr04	3833261	AA	TT	TT	INTERGENIC		
SNP_19437_A_3833279	NC_021163.1	Ca_Kabuli_Chr04	3833279	CC	TT	TT	INTERGENIC		
SNP_19438_A_3833365	NC_021163.1	Ca_Kabuli_Chr04	3833365	TT	CC	CC	INTERGENIC		
SNP_19439_A_3833637	NC_021163.1	Ca_Kabuli_Chr04	3833637	AA	GG	GG	INTERGENIC		
SNP_19440_A_3833774	NC_021163.1	Ca_Kabuli_Chr04	3833774	GG	AA	AA	INTERGENIC		
SNP_19441_A_3833809	NC_021163.1	Ca_Kabuli_Chr04	3833809	CC	TT	TT	INTERGENIC		
SNP_19442_A_3840394	NC_021163.1	Ca_Kabuli_Chr04	3840394	TT	GG	GG	INTERGENIC		
SNP_19443_A_3847522	NC_021163.1	Ca_Kabuli_Chr04	3847522	GG	AA	AA	INTERGENIC		
SNP_19444_A_3868479	NC_021163.1	Ca_Kabuli_Chr04	3868479	GG	AA	AA	INTRON	101508215	uncharacterized LOC101508215
SNP_19445_A_3869621	NC_021163.1	Ca_Kabuli_Chr04	3869621	AA	CC	CC	INTRON	101508215	uncharacterized LOC101508215
SNP_19446_A_3869698	NC_021163.1	Ca_Kabuli_Chr04	3869698	GG	TT	TT	INTRON	101508215	uncharacterized LOC101508215
SNP_19447_A_3869993	NC_021163.1	Ca_Kabuli_Chr04	3869993	AA	TT	TT	INTRON	101508215	uncharacterized LOC101508215
SNP_19448_A_3872059	NC_021163.1	Ca_Kabuli_Chr04	3872059	TT	GG	GG	INTRON	101508215	uncharacterized LOC101508215
SNP_19449_A_3872267	NC_021163.1	Ca_Kabuli_Chr04	3872267	TT	AA	AA	INTRON	101508215	uncharacterized LOC101508215
SNP_19450_A_3872325	NC_021163.1	Ca_Kabuli_Chr04	3872325	TT	CC	CC	INTRON	101508215	uncharacterized LOC101508215
SNP_19451_A_3872366	NC_021163.1	Ca_Kabuli_Chr04	3872366	AA	GG	GG	INTRON	101508215	uncharacterized LOC101508215
SNP_19452_A_3872378	NC_021163.1	Ca_Kabuli_Chr04	3872378	GG	AA	AA	INTRON	101508215	uncharacterized LOC101508215
SNP_19453_A_3872555	NC_021163.1	Ca_Kabuli_Chr04	3872555	TT	CC	CC	INTRON	101508215	uncharacterized LOC101508215
SNP_19454_A_3872571	NC_021163.1	Ca_Kabuli_Chr04	3872571	TT	AA	AA	INTRON	101508215	uncharacterized LOC101508215

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19455_A_3872654	NC_021163.1	Ca_Kabuli_Chr04	3872654	TT	CC	CC	INTRON	101508215	uncharacterized LOC101508215
SNP_19457_A_3989016	NC_021163.1	Ca_Kabuli_Chr04	3989016	GG	AA	AA	URR	101513035	alpha-galactosidase-like
SNP_19459_A_4030271	NC_021163.1	Ca_Kabuli_Chr04	4030271	CC	GG	GG	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19460_A_4030384	NC_021163.1	Ca_Kabuli_Chr04	4030384	GG	AA	AA	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19461_A_4030654	NC_021163.1	Ca_Kabuli_Chr04	4030654	AA	CC	CC	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19462_A_4030660	NC_021163.1	Ca_Kabuli_Chr04	4030660	TT	AA	AA	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19463_A_4030810	NC_021163.1	Ca_Kabuli_Chr04	4030810	GG	AA	AA	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19465_A_4030890	NC_021163.1	Ca_Kabuli_Chr04	4030890	AA	GG	GG	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19466_A_4030910	NC_021163.1	Ca_Kabuli_Chr04	4030910	CC	TT	TT	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19467_A_4030921	NC_021163.1	Ca_Kabuli_Chr04	4030921	CC	TT	TT	URR	101489067	dof zinc finger protein DOF2.5-like
SNP_19469_A_4031973	NC_021163.1	Ca_Kabuli_Chr04	4031973	TT	CC	CC	INTERGENIC		
SNP_19470_A_4032183	NC_021163.1	Ca_Kabuli_Chr04	4032183	GG	AA	AA	INTERGENIC		
SNP_19471_A_4032195	NC_021163.1	Ca_Kabuli_Chr04	4032195	CC	GG	GG	INTERGENIC		
SNP_19472_A_4032200	NC_021163.1	Ca_Kabuli_Chr04	4032200	AA	GG	GG	INTERGENIC		
SNP_19473_A_4036773	NC_021163.1	Ca_Kabuli_Chr04	4036773	GG	AA	AA	INTERGENIC		
SNP_19474_A_4037718	NC_021163.1	Ca_Kabuli_Chr04	4037718	TT	CC	CC	INTERGENIC		
SNP_19475_A_4038970	NC_021163.1	Ca_Kabuli_Chr04	4038970	AA	CC	CC	INTERGENIC		
SNP_19477_A_4044712	NC_021163.1	Ca_Kabuli_Chr04	4044712	TT	CC	CC	INTERGENIC		
SNP_19478_A_4044841	NC_021163.1	Ca_Kabuli_Chr04	4044841	TT	AA	AA	INTERGENIC		
SNP_19479_A_4044876	NC_021163.1	Ca_Kabuli_Chr04	4044876	TT	GG	GG	INTERGENIC		
SNP_19481_A_4044999	NC_021163.1	Ca_Kabuli_Chr04	4044999	AA	CC	CC	INTERGENIC		
SNP_19483_A_4046449	NC_021163.1	Ca_Kabuli_Chr04	4046449	CC	TT	TT	DRR	101509177	transcription factor bHLH157

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SNP_19484_A_4046513	NC_021163.1	Ca_Kabuli_Chr04	4046513	CC	GG	GG	DRR	101509177	transcription factor bHLH157
SNP_19485_A_4047974	NC_021163.1	Ca_Kabuli_Chr04	4047974	CC	TT	TT	INTRON	101509177	transcription factor bHLH157
SNP_19486_A_4054108	NC_021163.1	Ca_Kabuli_Chr04	4054108	CC	TT	TT	INTERGENIC		
SNP_19487_A_4054113	NC_021163.1	Ca_Kabuli_Chr04	4054113	CC	TT	TT	INTERGENIC		
SNP_19488_A_4055658	NC_021163.1	Ca_Kabuli_Chr04	4055658	AA	GG	GG	INTERGENIC		
SNP_19489_A_4056522	NC_021163.1	Ca_Kabuli_Chr04	4056522	CC	TT	TT	INTERGENIC		
SNP_19490_A_4056932	NC_021163.1	Ca_Kabuli_Chr04	4056932	AA	GG	GG	INTERGENIC		
SNP_19491_A_4057004	NC_021163.1	Ca_Kabuli_Chr04	4057004	CC	TT	TT	INTERGENIC		
SNP_19492_A_4063076	NC_021163.1	Ca_Kabuli_Chr04	4063076	TT	CC	CC	INTERGENIC		
SNP_19493_A_4063876	NC_021163.1	Ca_Kabuli_Chr04	4063876	AA	CC	CC	INTERGENIC		
SNP_19494_A_4067043	NC_021163.1	Ca_Kabuli_Chr04	4067043	AA	GG	GG	INTERGENIC		
SNP_19495_A_4067100	NC_021163.1	Ca_Kabuli_Chr04	4067100	GG	AA	AA	INTERGENIC		
SNP_19496_A_4067382	NC_021163.1	Ca_Kabuli_Chr04	4067382	CC	TT	TT	INTERGENIC		
SNP_19497_A_4079929	NC_021163.1	Ca_Kabuli_Chr04	4079929	TT	CC	CC	INTERGENIC		
SNP_19498_A_4080067	NC_021163.1	Ca_Kabuli_Chr04	4080067	GG	TT	TT	INTERGENIC		
SNP_19499_A_4080108	NC_021163.1	Ca_Kabuli_Chr04	4080108	AA	GG	GG	INTERGENIC		
SNP_19500_A_4080120	NC_021163.1	Ca_Kabuli_Chr04	4080120	TT	GG	GG	INTERGENIC		
SNP_19501_A_4080510	NC_021163.1	Ca_Kabuli_Chr04	4080510	AA	CC	CC	INTERGENIC		
SNP_19502_A_4080750	NC_021163.1	Ca_Kabuli_Chr04	4080750	TT	CC	CC	INTERGENIC		
SNP_19503_A_4083891	NC_021163.1	Ca_Kabuli_Chr04	4083891	AA	TT	TT	INTERGENIC		
SNP_19504_A_4085234	NC_021163.1	Ca_Kabuli_Chr04	4085234	CC	TT	TT	INTERGENIC		
SNP_19505_A_4085502	NC_021163.1	Ca_Kabuli_Chr04	4085502	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19506_A_4085530	NC_021163.1	Ca_Kabuli_Chr04	4085530	GG	AA	AA	INTERGENIC		
SNP_19507_A_4085535	NC_021163.1	Ca_Kabuli_Chr04	4085535	CC	TT	TT	INTERGENIC		
SNP_19508_A_4085538	NC_021163.1	Ca_Kabuli_Chr04	4085538	CC	AA	AA	INTERGENIC		
SNP_19509_A_4086328	NC_021163.1	Ca_Kabuli_Chr04	4086328	AA	CC	CC	INTERGENIC		
SNP_19511_A_4090381	NC_021163.1	Ca_Kabuli_Chr04	4090381	GG	TT	TT	URR	101490040	aluminum-activated malate transporter 10-like
SNP_19512_A_4090383	NC_021163.1	Ca_Kabuli_Chr04	4090383	AA	GG	GG	URR	101490040	aluminum-activated malate transporter 10-like
SNP_19513_A_4090666	NC_021163.1	Ca_Kabuli_Chr04	4090666	CC	TT	TT	URR	101490040	aluminum-activated malate transporter 10-like
SNP_19514_A_4096801	NC_021163.1	Ca_Kabuli_Chr04	4096801	GG	TT	TT	INTERGENIC		
SNP_19515_A_4096929	NC_021163.1	Ca_Kabuli_Chr04	4096929	CC	GG	GG	INTERGENIC		
SNP_19516_A_4096956	NC_021163.1	Ca_Kabuli_Chr04	4096956	AA	CC	CC	INTERGENIC		
SNP_19517_A_4097295	NC_021163.1	Ca_Kabuli_Chr04	4097295	CC	TT	TT	INTERGENIC		
SNP_19518_A_4097472	NC_021163.1	Ca_Kabuli_Chr04	4097472	CC	TT	TT	INTERGENIC		
SNP_19519_A_4097935	NC_021163.1	Ca_Kabuli_Chr04	4097935	CC	TT	TT	INTERGENIC		
SNP_19520_A_4099842	NC_021163.1	Ca_Kabuli_Chr04	4099842	TT	AA	AA	URR	101490379	plant UBX domain-containing protein 10
SNP_19521_A_4101408	NC_021163.1	Ca_Kabuli_Chr04	4101408	CC	AA	AA	INTERGENIC		
SNP_19522_A_4101413	NC_021163.1	Ca_Kabuli_Chr04	4101413	GG	TT	TT	INTERGENIC		
SNP_19523_A_4102757	NC_021163.1	Ca_Kabuli_Chr04	4102757	AA	GG	GG	DRR	101490702	mavicyanin
SNP_19524_A_4102786	NC_021163.1	Ca_Kabuli_Chr04	4102786	GG	AA	AA	DRR	101490702	mavicyanin
SNP_19525_A_4104922	NC_021163.1	Ca_Kabuli_Chr04	4104922	AA	GG	GG	DRR	101491021	serine/threonine-protein kinase BLUS1
SNP_19527_A_4112352	NC_021163.1	Ca_Kabuli_Chr04	4112352	CC	TT	TT	INTRON	101491021	serine/threonine-protein kinase BLUS1
SNP_19528_A_4112551	NC_021163.1	Ca_Kabuli_Chr04	4112551	AA	CC	CC	INTRON	101491021	serine/threonine-protein kinase BLUS1
SNP_19530_A_4116806	NC_021163.1	Ca_Kabuli_Chr04	4116806	GG	TT	TT	URR	101491021	serine/threonine-protein kinase BLUS1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_19531_A_4117366	NC_021163.1	Ca_Kabuli_Chr04	4117366	CC	TT	TT	INTERGENIC			
SNP_19532_A_4117408	NC_021163.1	Ca_Kabuli_Chr04	4117408	TT	CC	CC	INTERGENIC			
SNP_19533_A_4117413	NC_021163.1	Ca_Kabuli_Chr04	4117413	AA	TT	TT	INTERGENIC			
SNP_19535_A_4123698	NC_021163.1	Ca_Kabuli_Chr04	4123698	CC	AA	AA	INTERGENIC			
SNP_19536_A_4123704	NC_021163.1	Ca_Kabuli_Chr04	4123704	GG	TT	TT	INTERGENIC			
SNP_19537_A_4123735	NC_021163.1	Ca_Kabuli_Chr04	4123735	GG	CC	CC	INTERGENIC			
SNP_19538_A_4125210	NC_021163.1	Ca_Kabuli_Chr04	4125210	CC	AA	AA	INTERGENIC			
SNP_19539_A_4127016	NC_021163.1	Ca_Kabuli_Chr04	4127016	CC	TT	TT	INTERGENIC			
SNP_19540_A_4127030	NC_021163.1	Ca_Kabuli_Chr04	4127030	CC	TT	TT	INTERGENIC			
SNP_19541_A_4127032	NC_021163.1	Ca_Kabuli_Chr04	4127032	CC	TT	TT	INTERGENIC			
SNP_19542_A_4127600	NC_021163.1	Ca_Kabuli_Chr04	4127600	CC	AA	AA	INTERGENIC			
SNP_19543_A_4127601	NC_021163.1	Ca_Kabuli_Chr04	4127601	GG	TT	TT	INTERGENIC			
SNP_19544_A_4127603	NC_021163.1	Ca_Kabuli_Chr04	4127603	CC	TT	TT	INTERGENIC			
SNP_19545_A_4127883	NC_021163.1	Ca_Kabuli_Chr04	4127883	CC	TT	TT	INTERGENIC			
SNP_19546_A_4160257	NC_021163.1	Ca_Kabuli_Chr04	4160257	AA	GG	GG	INTERGENIC			
SNP_19547_A_4191068	NC_021163.1	Ca_Kabuli_Chr04	4191068	CC	AA	AA	INTERGENIC			
SNP_19548_A_4195558	NC_021163.1	Ca_Kabuli_Chr04	4195558	GG	AA	AA	INTRON	101492854	uncharacterized LOC101492854	
SNP_19549_A_4196372	NC_021163.1	Ca_Kabuli_Chr04	4196372	GG	CC	CC	INTRON	101492854	uncharacterized LOC101492854	
SNP_19551_A_4261320	NC_021163.1	Ca_Kabuli_Chr04	4261320	GG	AA	AA	INTERGENIC			
SNP_19553_A_4354198	NC_021163.1	Ca_Kabuli_Chr04	4354198	CC	TT	TT	INTERGENIC			
SNP_19554_A_4383138	NC_021163.1	Ca_Kabuli_Chr04	4383138	AA	GG	GG	INTERGENIC			
SNP_19555_A_4383826	NC_021163.1	Ca_Kabuli_Chr04	4383826	CC	AA	AA	INTERGENIC			

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SNP_19556_A_4432420	NC_021163.1	Ca_Kabuli_Chr04	4432420	AA	TT	TT	URR	101503833	putative F-box protein PP2-B12
SNP_19557_A_4432421	NC_021163.1	Ca_Kabuli_Chr04	4432421	AA	GG	GG	URR	101503833	putative F-box protein PP2-B12
SNP_19558_A_4437498	NC_021163.1	Ca_Kabuli_Chr04	4437498	GG	AA	AA	NON_SYNONYMOUS_CODING	101504148	putative F-box protein PP2-B12
SNP_19559_A_4447139	NC_021163.1	Ca_Kabuli_Chr04	4447139	TT	CC	CC	URR	101504470	putative F-box protein PP2-B12
SNP_19560_A_4448073	NC_021163.1	Ca_Kabuli_Chr04	4448073	AA	TT	TT	URR	101504470	putative F-box protein PP2-B12
SNP_19561_A_4460853	NC_021163.1	Ca_Kabuli_Chr04	4460853	AA	GG	GG	NON_SYNONYMOUS_CODING	101505429	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
SNP_19562_A_4463840	NC_021163.1	Ca_Kabuli_Chr04	4463840	GG	AA	AA	URR	101505429	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
SNP_19563_A_4466126	NC_021163.1	Ca_Kabuli_Chr04	4466126	TT	CC	CC	INTERGENIC		
SNP_19564_A_4466150	NC_021163.1	Ca_Kabuli_Chr04	4466150	AA	GG	GG	DRR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19565_A_4466178	NC_021163.1	Ca_Kabuli_Chr04	4466178	TT	CC	CC	DRR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19566_A_4466197	NC_021163.1	Ca_Kabuli_Chr04	4466197	AA	TT	TT	DRR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19567_A_4466212	NC_021163.1	Ca_Kabuli_Chr04	4466212	TT	CC	CC	DRR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19568_A_4468861	NC_021163.1	Ca_Kabuli_Chr04	4468861	CC	AA	AA	INTRON	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19570_A_4471782	NC_021163.1	Ca_Kabuli_Chr04	4471782	TT	AA	AA	INTRON	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19572_A_4479621	NC_021163.1	Ca_Kabuli_Chr04	4479621	AA	GG	GG	URR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19574_A_4480373	NC_021163.1	Ca_Kabuli_Chr04	4480373	TT	CC	CC	URR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19576_A_4480394	NC_021163.1	Ca_Kabuli_Chr04	4480394	GG	TT	TT	URR	101506182	probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC
SNP_19577_A_4480593	NC_021163.1	Ca_Kabuli_Chr04	4480593	GG	TT	TT	INTERGENIC		
SNP_19580_A_4481290	NC_021163.1	Ca_Kabuli_Chr04	4481290	GG	CC	CC	DRR	101507066	uncharacterized LOC101507066
SNP_19583_A_4484356	NC_021163.1	Ca_Kabuli_Chr04	4484356	GG	AA	AA	SYNONYMOUS_CODING	101507066	uncharacterized LOC101507066
SNP_19584_A_4484557	NC_021163.1	Ca_Kabuli_Chr04	4484557	GG	AA	AA	SYNONYMOUS_CODING	101507066	uncharacterized LOC101507066
SNP_19585_A_4485886	NC_021163.1	Ca_Kabuli_Chr04	4485886	TT	GG	GG	NON_SYNONYMOUS_CODING	101507066	uncharacterized LOC101507066

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19586_A_4485912	NC_021163.1	Ca_Kabuli_Chr04	4485912	CC	TT	TT	NON_SYNONYMOUS_CODING	101507066	uncharacterized LOC101507066
SNP_19587_A_4487184	NC_021163.1	Ca_Kabuli_Chr04	4487184	GG	AA	AA	INTRON	101507066	uncharacterized LOC101507066
SNP_19588_A_4487218	NC_021163.1	Ca_Kabuli_Chr04	4487218	GG	AA	AA	INTRON	101507066	uncharacterized LOC101507066
SNP_19589_A_4487228	NC_021163.1	Ca_Kabuli_Chr04	4487228	CC	AA	AA	INTRON	101507066	uncharacterized LOC101507066
SNP_19591_A_4488203	NC_021163.1	Ca_Kabuli_Chr04	4488203	AA	TT	TT	INTERGENIC		
SNP_19593_A_4498190	NC_021163.1	Ca_Kabuli_Chr04	4498190	CC	TT	TT	INTERGENIC		
SNP_19594_A_4498199	NC_021163.1	Ca_Kabuli_Chr04	4498199	GG	AA	AA	INTERGENIC		
SNP_19595_A_4499764	NC_021163.1	Ca_Kabuli_Chr04	4499764	AA	CC	CC	INTERGENIC		
SNP_19596_A_4499771	NC_021163.1	Ca_Kabuli_Chr04	4499771	CC	GG	GG	INTERGENIC		
SNP_19598_A_4502469	NC_021163.1	Ca_Kabuli_Chr04	4502469	CC	TT	TT	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19599_A_4502478	NC_021163.1	Ca_Kabuli_Chr04	4502478	AA	GG	GG	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19600_A_4502516	NC_021163.1	Ca_Kabuli_Chr04	4502516	TT	GG	GG	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19601_A_4503481	NC_021163.1	Ca_Kabuli_Chr04	4503481	TT	CC	CC	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19602_A_4503482	NC_021163.1	Ca_Kabuli_Chr04	4503482	TT	CC	CC	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19603_A_4503543	NC_021163.1	Ca_Kabuli_Chr04	4503543	AA	GG	GG	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19604_A_4503592	NC_021163.1	Ca_Kabuli_Chr04	4503592	CC	AA	AA	INTRON	101507386	GDSL esterase/lipase At5g33370-like
SNP_19606_A_4504405	NC_021163.1	Ca_Kabuli_Chr04	4504405	GG	AA	AA	SYNONYMOUS_CODING	101507386	GDSL esterase/lipase At5g33370-like
SNP_19607_A_4504813	NC_021163.1	Ca_Kabuli_Chr04	4504813	GG	AA	AA	SYNONYMOUS_CODING	101507386	GDSL esterase/lipase At5g33370-like
SNP_19608_A_4505919	NC_021163.1	Ca_Kabuli_Chr04	4505919	TT	AA	AA	URR	101507386	GDSL esterase/lipase At5g33370-like
SNP_19609_A_4506551	NC_021163.1	Ca_Kabuli_Chr04	4506551	AA	TT	TT	URR	101507386	GDSL esterase/lipase At5g33370-like
SNP_19610_A_4506552	NC_021163.1	Ca_Kabuli_Chr04	4506552	TT	AA	AA	URR	101507386	GDSL esterase/lipase At5g33370-like
SNP_19612_A_4508481	NC_021163.1	Ca_Kabuli_Chr04	4508481	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19613_A_4509193	NC_021163.1	Ca_Kabuli_Chr04	4509193	CC	TT	TT	INTERGENIC		
SNP_19615_A_4513673	NC_021163.1	Ca_Kabuli_Chr04	4513673	AA	GG	GG	INTERGENIC		
SNP_19616_A_4517209	NC_021163.1	Ca_Kabuli_Chr04	4517209	GG	CC	CC	INTERGENIC		
SNP_19618_A_4521166	NC_021163.1	Ca_Kabuli_Chr04	4521166	TT	CC	CC	INTERGENIC		
SNP_19619_A_4521252	NC_021163.1	Ca_Kabuli_Chr04	4521252	CC	TT	TT	INTERGENIC		
SNP_19620_A_4521255	NC_021163.1	Ca_Kabuli_Chr04	4521255	AA	CC	CC	INTERGENIC		
SNP_19621_A_4521494	NC_021163.1	Ca_Kabuli_Chr04	4521494	AA	TT	TT	INTERGENIC		
SNP_19622_A_4521527	NC_021163.1	Ca_Kabuli_Chr04	4521527	CC	TT	TT	INTERGENIC		
SNP_19623_A_4522300	NC_021163.1	Ca_Kabuli_Chr04	4522300	TT	CC	CC	INTERGENIC		
SNP_19624_A_4522587	NC_021163.1	Ca_Kabuli_Chr04	4522587	AA	GG	GG	INTERGENIC		
SNP_19625_A_4522591	NC_021163.1	Ca_Kabuli_Chr04	4522591	GG	AA	AA	INTERGENIC		
SNP_19626_A_4523321	NC_021163.1	Ca_Kabuli_Chr04	4523321	GG	AA	AA	INTERGENIC		
SNP_19628_A_4532346	NC_021163.1	Ca_Kabuli_Chr04	4532346	CC	GG	GG	URR	101507695	uncharacterized LOC101507695
SNP_19629_A_4532580	NC_021163.1	Ca_Kabuli_Chr04	4532580	AA	TT	TT	URR	101507695	uncharacterized LOC101507695
SNP_19630_A_4532865	NC_021163.1	Ca_Kabuli_Chr04	4532865	TT	AA	AA	URR	101507695	uncharacterized LOC101507695
SNP_19631_A_4533020	NC_021163.1	Ca_Kabuli_Chr04	4533020	TT	AA	AA	URR	101507695	uncharacterized LOC101507695
SNP_19632_A_4533051	NC_021163.1	Ca_Kabuli_Chr04	4533051	CC	TT	TT	URR	101507695	uncharacterized LOC101507695
SNP_19633_A_4534779	NC_021163.1	Ca_Kabuli_Chr04	4534779	TT	CC	CC	DRR	101510142	uncharacterized LOC101510142
SNP_19634_A_4536728	NC_021163.1	Ca_Kabuli_Chr04	4536728	TT	CC	CC	INTRON	101510142	uncharacterized LOC101510142
SNP_19635_A_4536750	NC_021163.1	Ca_Kabuli_Chr04	4536750	AA	GG	GG	INTRON	101510142	uncharacterized LOC101510142
SNP_19637_A_4537667	NC_021163.1	Ca_Kabuli_Chr04	4537667	GG	AA	AA	INTRON	101510142	uncharacterized LOC101510142
SNP_19638_A_4539141	NC_021163.1	Ca_Kabuli_Chr04	4539141	TT	CC	CC	INTRON	101510142	uncharacterized LOC101510142

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19639_A_4539434	NC_021163.1	Ca_Kabuli_Chr04	4539434	AA	GG	GG	INTRON	101510142	uncharacterized LOC101510142
SNP_19640_A_4539465	NC_021163.1	Ca_Kabuli_Chr04	4539465	TT	CC	CC	INTRON	101510142	uncharacterized LOC101510142
SNP_19641_A_4539472	NC_021163.1	Ca_Kabuli_Chr04	4539472	CC	TT	TT	INTRON	101510142	uncharacterized LOC101510142
SNP_19642_A_4539491	NC_021163.1	Ca_Kabuli_Chr04	4539491	GG	CC	CC	INTRON	101510142	uncharacterized LOC101510142
SNP_19643_A_4539663	NC_021163.1	Ca_Kabuli_Chr04	4539663	GG	AA	AA	INTRON	101510142	uncharacterized LOC101510142
SNP_19644_A_4539685	NC_021163.1	Ca_Kabuli_Chr04	4539685	AA	GG	GG	INTRON	101510142	uncharacterized LOC101510142
SNP_19646_A_4540184	NC_021163.1	Ca_Kabuli_Chr04	4540184	TT	CC	CC	INTRON	101510142	uncharacterized LOC101510142
SNP_19647_A_4540476	NC_021163.1	Ca_Kabuli_Chr04	4540476	GG	AA	AA	INTRON	101510142	uncharacterized LOC101510142
SNP_19648_A_4542871	NC_021163.1	Ca_Kabuli_Chr04	4542871	AA	GG	GG	INTRON	101510142	uncharacterized LOC101510142
SNP_19649_A_4543886	NC_021163.1	Ca_Kabuli_Chr04	4543886	CC	TT	TT	INTRON	101510142	uncharacterized LOC101510142
SNP_19650_A_4548714	NC_021163.1	Ca_Kabuli_Chr04	4548714	TT	CC	CC	INTRON	101510142	uncharacterized LOC101510142
SNP_19651_A_4557693	NC_021163.1	Ca_Kabuli_Chr04	4557693	TT	CC	CC	INTRON	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19652_A_4563325	NC_021163.1	Ca_Kabuli_Chr04	4563325	TT	GG	GG	INTRON	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19653_A_4563591	NC_021163.1	Ca_Kabuli_Chr04	4563591	AA	CC	CC	INTRON	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19654_A_4568021	NC_021163.1	Ca_Kabuli_Chr04	4568021	GG	TT	TT	URR	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19655_A_4568023	NC_021163.1	Ca_Kabuli_Chr04	4568023	TT	GG	GG	URR	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19657_A_4568431	NC_021163.1	Ca_Kabuli_Chr04	4568431	CC	GG	GG	URR	101508024	vacuolar protein sorting-associated protein 52 A
SNP_19658_A_4574806	NC_021163.1	Ca_Kabuli_Chr04	4574806	TT	CC	CC	INTERGENIC		
SNP_19659_A_4574808	NC_021163.1	Ca_Kabuli_Chr04	4574808	CC	TT	TT	INTERGENIC		
SNP_19660_A_4574947	NC_021163.1	Ca_Kabuli_Chr04	4574947	CC	GG	GG	URR	101508336	AT-hook motif nuclear-localized protein 14
SNP_19663_A_4577843	NC_021163.1	Ca_Kabuli_Chr04	4577843	CC	TT	TT	INTERGENIC		
SNP_19664_A_4580107	NC_021163.1	Ca_Kabuli_Chr04	4580107	TT	GG	GG	INTRON	101508648	protein EIN4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19665_A_4580372	NC_021163.1	Ca_Kabuli_Chr04	4580372	GG	TT	TT	INTRON	101508648	protein EIN4
SNP_19666_A_4582668	NC_021163.1	Ca_Kabuli_Chr04	4582668	AA	TT	TT	DRR	101508966	methyltransferase-like protein 6
SNP_19667_A_4585388	NC_021163.1	Ca_Kabuli_Chr04	4585388	CC	TT	TT	INTERGENIC		
SNP_19668_A_4585416	NC_021163.1	Ca_Kabuli_Chr04	4585416	TT	CC	CC	INTERGENIC		
SNP_19669_A_4586320	NC_021163.1	Ca_Kabuli_Chr04	4586320	GG	TT	TT	INTERGENIC		
SNP_19670_A_4586563	NC_021163.1	Ca_Kabuli_Chr04	4586563	CC	TT	TT	URR	101508966	methyltransferase-like protein 6
SNP_19671_A_4587900	NC_021163.1	Ca_Kabuli_Chr04	4587900	TT	GG	GG	URR	101508966	methyltransferase-like protein 6
SNP_19673_A_4589582	NC_021163.1	Ca_Kabuli_Chr04	4589582	TT	AA	AA	INTERGENIC		
SNP_19675_A_4590130	NC_021163.1	Ca_Kabuli_Chr04	4590130	TT	CC	CC	INTERGENIC		
SNP_19676_A_4590974	NC_021163.1	Ca_Kabuli_Chr04	4590974	GG	AA	AA	INTERGENIC		
SNP_19677_A_4683722	NC_021163.1	Ca_Kabuli_Chr04	4683722	CC	AA	AA	URR	101512180	pentatricopeptide repeat-containing protein At1g08610
SNP_19679_A_4817380	NC_021163.1	Ca_Kabuli_Chr04	4817380	CC	TT	TT	INTRON	101489933	uncharacterized LOC101489933
SNP_19680_A_4817399	NC_021163.1	Ca_Kabuli_Chr04	4817399	TT	AA	AA	INTRON	101489933	uncharacterized LOC101489933
SNP_19681_A_4824020	NC_021163.1	Ca_Kabuli_Chr04	4824020	GG	TT	TT	INTERGENIC		
SNP_19682_A_4825783	NC_021163.1	Ca_Kabuli_Chr04	4825783	AA	CC	CC	DRR	101490267	leucine-rich repeat receptor-like protein kinase PXL1
SNP_19684_A_4826027	NC_021163.1	Ca_Kabuli_Chr04	4826027	GG	CC	CC	URR	101489933	uncharacterized LOC101489933
SNP_19685_A_4826620	NC_021163.1	Ca_Kabuli_Chr04	4826620	CC	TT	TT	URR	101489933	uncharacterized LOC101489933
SNP_19686_A_4826638	NC_021163.1	Ca_Kabuli_Chr04	4826638	TT	CC	CC	URR	101489933	uncharacterized LOC101489933
SNP_19687_A_4830575	NC_021163.1	Ca_Kabuli_Chr04	4830575	GG	CC	CC	URR	101490267	leucine-rich repeat receptor-like protein kinase PXL1
SNP_19688_A_4839572	NC_021163.1	Ca_Kabuli_Chr04	4839572	TT	AA	AA	INTERGENIC		
SNP_19689_A_4839575	NC_021163.1	Ca_Kabuli_Chr04	4839575	TT	AA	AA	INTERGENIC		
SNP_19690_A_4839576	NC_021163.1	Ca_Kabuli_Chr04	4839576	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19691_A_4839797	NC_021163.1	Ca_Kabuli_Chr04	4839797	GG	TT	TT	INTERGENIC		
SNP_19692_A_4839799	NC_021163.1	Ca_Kabuli_Chr04	4839799	GG	CC	CC	INTERGENIC		
SNP_19694_A_4841373	NC_021163.1	Ca_Kabuli_Chr04	4841373	TT	AA	AA	DRR	101490585	inositol phosphoryceramide glucuronosyltransferase 1-like
SNP_19696_A_4848727	NC_021163.1	Ca_Kabuli_Chr04	4848727	TT	GG	GG	URR	101490585	inositol phosphoryceramide glucuronosyltransferase 1-like
SNP_19697_A_4849901	NC_021163.1	Ca_Kabuli_Chr04	4849901	GG	CC	CC	INTERGENIC		
SNP_19698_A_4852668	NC_021163.1	Ca_Kabuli_Chr04	4852668	AA	TT	TT	INTERGENIC		
SNP_19699_A_4852797	NC_021163.1	Ca_Kabuli_Chr04	4852797	GG	TT	TT	INTERGENIC		
SNP_19700_A_4856478	NC_021163.1	Ca_Kabuli_Chr04	4856478	GG	AA	AA	INTRON	101490905	probable aminopyrimidine aminohydrolase, mitochondrial
SNP_19701_A_4867531	NC_021163.1	Ca_Kabuli_Chr04	4867531	CC	AA	AA	DRR	101491851	myosin-9-like
SNP_19702_A_4867891	NC_021163.1	Ca_Kabuli_Chr04	4867891	TT	AA	AA	DRR	101491851	myosin-9-like
SNP_19703_A_4867939	NC_021163.1	Ca_Kabuli_Chr04	4867939	AA	GG	GG	DRR	101491851	myosin-9-like
SNP_19704_A_4869996	NC_021163.1	Ca_Kabuli_Chr04	4869996	TT	AA	AA	INTRON	101491851	myosin-9-like
SNP_19705_A_4875290	NC_021163.1	Ca_Kabuli_Chr04	4875290	GG	AA	AA	URR	101491851	myosin-9-like
SNP_19707_A_4883817	NC_021163.1	Ca_Kabuli_Chr04	4883817	AA	GG	GG	INTRON	101491333	myosin-11-like
SNP_19708_A_4886440	NC_021163.1	Ca_Kabuli_Chr04	4886440	CC	TT	TT	INTRON	101491333	myosin-11-like
SNP_19709_A_4886667	NC_021163.1	Ca_Kabuli_Chr04	4886667	CC	AA	AA	INTRON	101491333	myosin-11-like
SNP_19710_A_4886962	NC_021163.1	Ca_Kabuli_Chr04	4886962	GG	AA	AA	INTRON	101491333	myosin-11-like
SNP_19711_A_4888825	NC_021163.1	Ca_Kabuli_Chr04	4888825	AA	GG	GG	INTRON	101491333	myosin-11-like
SNP_19712_A_4890422	NC_021163.1	Ca_Kabuli_Chr04	4890422	CC	TT	TT	INTRON	101491333	myosin-11-like
SNP_19713_A_4890680	NC_021163.1	Ca_Kabuli_Chr04	4890680	CC	AA	AA	INTERGENIC		
SNP_19715_A_4893230	NC_021163.1	Ca_Kabuli_Chr04	4893230	CC	GG	GG	INTERGENIC		
SNP_19717_A_4913945	NC_021163.1	Ca_Kabuli_Chr04	4913945	GG	AA	AA	INTRON	101492527	phosphoribosylaminoimidazole carboxylase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19718_A_4924266	NC_021163.1	Ca_Kabuli_Chr04	4924266	TT	CC	CC	INTERGENIC		
SNP_19719_A_4946730	NC_021163.1	Ca_Kabuli_Chr04	4946730	GG	CC	CC	INTERGENIC		
SNP_19721_A_4982003	NC_021163.1	Ca_Kabuli_Chr04	4982003	GG	AA	AA	DRR	101499251	pathogenesis-related protein PR-4
SNP_19722_A_5027332	NC_021163.1	Ca_Kabuli_Chr04	5027332	AA	GG	GG	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19723_A_5047941	NC_021163.1	Ca_Kabuli_Chr04	5047941	AA	GG	GG	URR	101497179	PITH domain-containing protein A13g04780
SNP_19724_A_5069914	NC_021163.1	Ca_Kabuli_Chr04	5069914	TT	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19725_A_5069915	NC_021163.1	Ca_Kabuli_Chr04	5069915	TT	CC	CC	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19727_A_5148557	NC_021163.1	Ca_Kabuli_Chr04	5148557	GG	TT	TT	INTERGENIC		
SNP_19728_A_5190592	NC_021163.1	Ca_Kabuli_Chr04	5190592	TT	CC	CC	URR	101491335	cysteine synthase-like
SNP_19729_A_5218158	NC_021163.1	Ca_Kabuli_Chr04	5218158	GG	AA	AA	INTRON	101491023	protein MON2 homolog
SNP_19730_A_5245775	NC_021163.1	Ca_Kabuli_Chr04	5245775	TT	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19731_A_5283826	NC_021163.1	Ca_Kabuli_Chr04	5283826	GG	AA	AA	URR	101488963	WD repeat-containing protein 48-like
SNP_19732_A_5287080	NC_021163.1	Ca_Kabuli_Chr04	5287080	CC	AA	AA	URR	101512713	uncharacterized LOC101512713
SNP_19734_A_5334305	NC_021163.1	Ca_Kabuli_Chr04	5334305	CC	TT	TT	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19735_A_5358456	NC_021163.1	Ca_Kabuli_Chr04	5358456	CC	TT	TT	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19736_A_5358818	NC_021163.1	Ca_Kabuli_Chr04	5358818	GG	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19737_A_5369836	NC_021163.1	Ca_Kabuli_Chr04	5369836	GG	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19738_A_5373682	NC_021163.1	Ca_Kabuli_Chr04	5373682	GG	AA	AA	URR	101514248	vesicle-associated protein 2-2
SNP_19739_A_5412435	NC_021163.1	Ca_Kabuli_Chr04	5412435	CC	TT	TT	URR	101512181	autophagy-related protein 18h
SNP_19740_A_5483399	NC_021163.1	Ca_Kabuli_Chr04	5483399	CC	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19741_A_5483473	NC_021163.1	Ca_Kabuli_Chr04	5483473	CC	TT	TT	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19742_A_5483534	NC_021163.1	Ca_Kabuli_Chr04	5483534	TT	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19743_A_5483700	NC_021163.1	Ca_Kabuli_Chr04	5483700	TT	CC	CC	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19744_A_5483811	NC_021163.1	Ca_Kabuli_Chr04	5483811	AA	GG	GG	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19745_A_5485013	NC_021163.1	Ca_Kabuli_Chr04	5485013	AA	GG	GG	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19746_A_5496094	NC_021163.1	Ca_Kabuli_Chr04	5496094	AA	TT	TT	URR	101508537	transcription factor bHLH94
SNP_19747_A_5496095	NC_021163.1	Ca_Kabuli_Chr04	5496095	TT	GG	GG	URR	101508537	transcription factor bHLH94
SNP_19748_A_5501376	NC_021163.1	Ca_Kabuli_Chr04	5501376	AA	GG	GG	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19749_A_5518961	NC_021163.1	Ca_Kabuli_Chr04	5518961	GG	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19750_A_5525199	NC_021163.1	Ca_Kabuli_Chr04	5525199	TT	AA	AA	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19752_A_5562821	NC_021163.1	Ca_Kabuli_Chr04	5562821	GG	TT	TT	URR	101507584	uncharacterized protein DDB_G0283357
SNP_19753_A_5564922	NC_021163.1	Ca_Kabuli_Chr04	5564922	AA	GG	GG	INTERGENIC		
SNP_19757_A_5760634	NC_021163.1	Ca_Kabuli_Chr04	5760634	CC	TT	TT	URR	101499567	DEAD-box ATP-dependent RNA helicase 16
SNP_19758_A_5824645	NC_021163.1	Ca_Kabuli_Chr04	5824645	AA	GG	GG	URR	101497283	protein RALF-like 33
SNP_19759_A_5870221	NC_021163.1	Ca_Kabuli_Chr04	5870221	AA	GG	GG	INTRON	101499251	pathogenesis-related protein PR-4
SNP_19760_A_5951563	NC_021163.1	Ca_Kabuli_Chr04	5951563	TT	CC	CC	URR	101491656	glycine-rich domain-containing protein 2
SNP_19762_A_6005328	NC_021163.1	Ca_Kabuli_Chr04	6005328	TT	CC	CC	URR	101490269	topless-related protein 3-like
SNP_19763_A_6050270	NC_021163.1	Ca_Kabuli_Chr04	6050270	TT	CC	CC	URR	101515420	syntaxin-43
SNP_19764_A_6050328	NC_021163.1	Ca_Kabuli_Chr04	6050328	GG	TT	TT	URR	101515420	syntaxin-43
SNP_19765_A_6050642	NC_021163.1	Ca_Kabuli_Chr04	6050642	CC	TT	TT	DRR	101410571	transfer RNA threonine (anticodon AGU)
SNP_19766_A_6050682	NC_021163.1	Ca_Kabuli_Chr04	6050682	GG	AA	AA	DRR	101410571	transfer RNA threonine (anticodon AGU)
SNP_19767_A_6129167	NC_021163.1	Ca_Kabuli_Chr04	6129167	TT	AA	AA	INTERGENIC		
SNP_19769_A_6168361	NC_021163.1	Ca_Kabuli_Chr04	6168361	GG	CC	CC	INTERGENIC		
SNP_19771_A_6209346	NC_021163.1	Ca_Kabuli_Chr04	6209346	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19772_A_6225541	NC_021163.1	Ca_Kabuli_Chr04	6225541	TT	CC	CC	URR	101506949	uncharacterized LOC101506949
SNP_19774_A_6344610	NC_021163.1	Ca_Kabuli_Chr04	6344610	TT	AA	AA	INTERGENIC		
SNP_19776_A_6397747	NC_021163.1	Ca_Kabuli_Chr04	6397747	GG	TT	TT	DRR	101498590	pentatricopeptide repeat-containing protein At1g63330-like
SNP_19777_A_6418115	NC_021163.1	Ca_Kabuli_Chr04	6418115	CC	TT	TT	INTERGENIC		
SNP_19778_A_6423526	NC_021163.1	Ca_Kabuli_Chr04	6423526	AA	GG	GG	INTERGENIC		
SNP_19779_A_6443393	NC_021163.1	Ca_Kabuli_Chr04	6443393	AA	GG	GG	INTERGENIC		
SNP_19780_A_6462613	NC_021163.1	Ca_Kabuli_Chr04	6462613	GG	AA	AA	INTRON	101500643	aspartic proteinase-like
SNP_19781_A_6477607	NC_021163.1	Ca_Kabuli_Chr04	6477607	CC	TT	TT	URR	101501275	Unknown function
SNP_19783_A_6587375	NC_021163.1	Ca_Kabuli_Chr04	6587375	GG	TT	TT	INTERGENIC		
SNP_19784_A_6588114	NC_021163.1	Ca_Kabuli_Chr04	6588114	CC	TT	TT	INTERGENIC		
SNP_19785_A_6600863	NC_021163.1	Ca_Kabuli_Chr04	6600863	TT	CC	CC	INTERGENIC		
SNP_19786_A_6706277	NC_021163.1	Ca_Kabuli_Chr04	6706277	AA	GG	GG	INTERGENIC		
SNP_19787_A_6733553	NC_021163.1	Ca_Kabuli_Chr04	6733553	GG	AA	AA	INTERGENIC		
SNP_19788_A_6797350	NC_021163.1	Ca_Kabuli_Chr04	6797350	TT	AA	AA	URR	101514124	cytochrome P450 734A1-like
SNP_19789_A_6840068	NC_021163.1	Ca_Kabuli_Chr04	6840068	TT	AA	AA	DRR	101489071	L-cysteine desulfhydrase
SNP_19790_A_6864116	NC_021163.1	Ca_Kabuli_Chr04	6864116	CC	TT	TT	INTERGENIC		
SNP_19792_A_6881123	NC_021163.1	Ca_Kabuli_Chr04	6881123	TT	CC	CC	URR	101490703	protein RADIALIS-like 3
SNP_19793_A_6895016	NC_021163.1	Ca_Kabuli_Chr04	6895016	TT	GG	GG	INTRON	101491854	pto-interacting protein 1-like
SNP_19794_A_6901597	NC_021163.1	Ca_Kabuli_Chr04	6901597	TT	CC	CC	INTERGENIC		
SNP_19796_A_6907263	NC_021163.1	Ca_Kabuli_Chr04	6907263	AA	TT	TT	INTERGENIC		
SNP_19797_A_6907267	NC_021163.1	Ca_Kabuli_Chr04	6907267	CC	TT	TT	INTERGENIC		
SNP_19798_A_6907299	NC_021163.1	Ca_Kabuli_Chr04	6907299	AA	GG	GG	INTERGENIC		

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SNP_19799_A_6945203	NC_021163.1	Ca_Kabuli_Chr04	6945203	CC	TT	TT	URR	101494456	probable protein phosphatase 2C 49
SNP_19801_A_7010492	NC_021163.1	Ca_Kabuli_Chr04	7010492	AA	TT	TT	DRR	101496748	probable pectinesterase 53
SNP_19802_A_7074415	NC_021163.1	Ca_Kabuli_Chr04	7074415	CC	TT	TT	INTERGENIC		
SNP_19803_A_7074430	NC_021163.1	Ca_Kabuli_Chr04	7074430	GG	AA	AA	INTERGENIC		
SNP_19805_A_7096615	NC_021163.1	Ca_Kabuli_Chr04	7096615	GG	AA	AA	DRR	101498727	uncharacterized LOC101498727
SNP_19806_A_7108099	NC_021163.1	Ca_Kabuli_Chr04	7108099	TT	GG	GG	DRR	101493625	Unknown function
SNP_19807_A_7108103	NC_021163.1	Ca_Kabuli_Chr04	7108103	TT	AA	AA	DRR	101493625	Unknown function
SNP_19808_A_7117272	NC_021163.1	Ca_Kabuli_Chr04	7117272	GG	CC	CC	INTERGENIC		
SNP_19810_A_7160533	NC_021163.1	Ca_Kabuli_Chr04	7160533	TT	CC	CC	DRR	101501477	ATP-dependent Clp protease proteolytic subunit 5, chloroplastic-like
SNP_19811_A_7254247	NC_021163.1	Ca_Kabuli_Chr04	7254247	CC	GG	GG	INTERGENIC		
SNP_19812_A_7272521	NC_021163.1	Ca_Kabuli_Chr04	7272521	TT	CC	CC	INTERGENIC		
SNP_19813_A_7287153	NC_021163.1	Ca_Kabuli_Chr04	7287153	GG	AA	AA	INTERGENIC		
SNP_19814_A_7292955	NC_021163.1	Ca_Kabuli_Chr04	7292955	GG	AA	AA	INTERGENIC		
SNP_19815_A_7359137	NC_021163.1	Ca_Kabuli_Chr04	7359137	GG	AA	AA	INTERGENIC		
SNP_19816_A_7359150	NC_021163.1	Ca_Kabuli_Chr04	7359150	AA	GG	GG	INTERGENIC		
SNP_19817_A_7359173	NC_021163.1	Ca_Kabuli_Chr04	7359173	AA	TT	TT	INTERGENIC		
SNP_19818_A_7359228	NC_021163.1	Ca_Kabuli_Chr04	7359228	AA	GG	GG	INTERGENIC		
SNP_19822_A_7480193	NC_021163.1	Ca_Kabuli_Chr04	7480193	AA	GG	GG	INTERGENIC		
SNP_19823_A_7492679	NC_021163.1	Ca_Kabuli_Chr04	7492679	GG	AA	AA	DRR	101511868	nicotinamide adenine dinucleotide transporter 1, chloroplastic
SNP_19824_A_7514217	NC_021163.1	Ca_Kabuli_Chr04	7514217	CC	GG	GG	INTERGENIC		
SNP_19825_A_7579920	NC_021163.1	Ca_Kabuli_Chr04	7579920	GG	AA	AA	URR	101495536	extensin-2-like
SNP_19827_A_7638134	NC_021163.1	Ca_Kabuli_Chr04	7638134	CC	TT	TT	STOP_GAINED	101496194	Unknown function

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SNP_19828_A_7638462	NC_021163.1	Ca_Kabuli_Chr04	7638462	GG	AA	AA	URR	101496194	Unknown function
SNP_19829_A_7676995	NC_021163.1	Ca_Kabuli_Chr04	7676995	AA	CC	CC	INTERGENIC		
SNP_19830_A_7697608	NC_021163.1	Ca_Kabuli_Chr04	7697608	AA	CC	CC	DRR	101515652	uncharacterized LOC101515652
SNP_19832_A_7713065	NC_021163.1	Ca_Kabuli_Chr04	7713065	GG	AA	AA	INTERGENIC		
SNP_19833_A_7927555	NC_021163.1	Ca_Kabuli_Chr04	7927555	TT	AA	AA	INTERGENIC		
SNP_19834_A_7978333	NC_021163.1	Ca_Kabuli_Chr04	7978333	CC	TT	TT	INTERGENIC		
SNP_19835_A_7997655	NC_021163.1	Ca_Kabuli_Chr04	7997655	GG	AA	AA	DRR	101502860	monothiol glutaredoxin-S1-like
SNP_19836_A_8020359	NC_021163.1	Ca_Kabuli_Chr04	8020359	AA	CC	CC	INTERGENIC		
SNP_19838_A_8109633	NC_021163.1	Ca_Kabuli_Chr04	8109633	GG	AA	AA	INTERGENIC		
SNP_19840_A_8167249	NC_021163.1	Ca_Kabuli_Chr04	8167249	CC	TT	TT	URR	101501795	gibberellin receptor GID1B-like
SNP_19841_A_8167279	NC_021163.1	Ca_Kabuli_Chr04	8167279	TT	GG	GG	URR	101501795	gibberellin receptor GID1B-like
SNP_19842_A_8167365	NC_021163.1	Ca_Kabuli_Chr04	8167365	TT	CC	CC	URR	101501795	gibberellin receptor GID1B-like
SNP_19843_A_8169328	NC_021163.1	Ca_Kabuli_Chr04	8169328	AA	TT	TT	INTERGENIC		
SNP_19844_A_8169329	NC_021163.1	Ca_Kabuli_Chr04	8169329	CC	AA	AA	INTERGENIC		
SNP_19845_A_8169375	NC_021163.1	Ca_Kabuli_Chr04	8169375	TT	CC	CC	INTERGENIC		
SNP_19846_A_8169421	NC_021163.1	Ca_Kabuli_Chr04	8169421	AA	GG	GG	INTERGENIC		
SNP_19848_A_8169443	NC_021163.1	Ca_Kabuli_Chr04	8169443	AA	TT	TT	INTERGENIC		
SNP_19849_A_8169607	NC_021163.1	Ca_Kabuli_Chr04	8169607	CC	TT	TT	INTERGENIC		
SNP_19851_A_8169646	NC_021163.1	Ca_Kabuli_Chr04	8169646	GG	TT	TT	INTERGENIC		
SNP_19852_A_8169659	NC_021163.1	Ca_Kabuli_Chr04	8169659	TT	CC	CC	INTERGENIC		
SNP_19853_A_8169683	NC_021163.1	Ca_Kabuli_Chr04	8169683	AA	GG	GG	INTERGENIC		
SNP_19854_A_8169693	NC_021163.1	Ca_Kabuli_Chr04	8169693	TT	CC	CC	INTERGENIC		

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SNP_19855_A_8170000	NC_021163.1	Ca_Kabuli_Chr04	8170000	GG	TT	TT	INTERGENIC		
SNP_19856_A_8170451	NC_021163.1	Ca_Kabuli_Chr04	8170451	AA	CC	CC	INTERGENIC		
SNP_19857_A_8170794	NC_021163.1	Ca_Kabuli_Chr04	8170794	CC	TT	TT	INTERGENIC		
SNP_19858_A_8170799	NC_021163.1	Ca_Kabuli_Chr04	8170799	TT	AA	AA	INTERGENIC		
SNP_19859_A_8176091	NC_021163.1	Ca_Kabuli_Chr04	8176091	GG	CC	CC	INTERGENIC		
SNP_19860_A_8176092	NC_021163.1	Ca_Kabuli_Chr04	8176092	GG	CC	CC	INTERGENIC		
SNP_19861_A_8176308	NC_021163.1	Ca_Kabuli_Chr04	8176308	TT	CC	CC	INTERGENIC		
SNP_19862_A_8182707	NC_021163.1	Ca_Kabuli_Chr04	8182707	CC	TT	TT	URR	101502440	LRR receptor-like serine/threonine-protein kinase ERL1
SNP_19863_A_8184895	NC_021163.1	Ca_Kabuli_Chr04	8184895	TT	CC	CC	INTERGENIC		
SNP_19864_A_8185613	NC_021163.1	Ca_Kabuli_Chr04	8185613	AA	GG	GG	DRR	101502743	histidine-containing phosphotransfer protein 1-like
SNP_19866_A_8187392	NC_021163.1	Ca_Kabuli_Chr04	8187392	CC	GG	GG	INTRON	101502743	histidine-containing phosphotransfer protein 1-like
SNP_19869_A_8199623	NC_021163.1	Ca_Kabuli_Chr04	8199623	GG	CC	CC	URR	101503055	autophagy-related protein 18g-like
SNP_19870_A_8201008	NC_021163.1	Ca_Kabuli_Chr04	8201008	TT	CC	CC	URR	101503055	autophagy-related protein 18g-like
SNP_19871_A_8201010	NC_021163.1	Ca_Kabuli_Chr04	8201010	GG	AA	AA	URR	101503055	autophagy-related protein 18g-like
SNP_19872_A_8202775	NC_021163.1	Ca_Kabuli_Chr04	8202775	AA	CC	CC	DRR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19873_A_8202782	NC_021163.1	Ca_Kabuli_Chr04	8202782	AA	TT	TT	DRR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19874_A_8203077	NC_021163.1	Ca_Kabuli_Chr04	8203077	AA	GG	GG	DRR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19875_A_8205046	NC_021163.1	Ca_Kabuli_Chr04	8205046	TT	AA	AA	SYNONYMOUS_CODING	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19877_A_8207169	NC_021163.1	Ca_Kabuli_Chr04	8207169	TT	AA	AA	URR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19878_A_8207691	NC_021163.1	Ca_Kabuli_Chr04	8207691	GG	AA	AA	URR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19879_A_8207767	NC_021163.1	Ca_Kabuli_Chr04	8207767	GG	AA	AA	URR	101503610	receptor-like cytosolic serine/threonine-protein kinase RBK2
SNP_19881_A_8209315	NC_021163.1	Ca_Kabuli_Chr04	8209315	AA	TT	TT	INTERGENIC		

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SNP_19883_A_8210443	NC_021163.1	Ca_Kabuli_Chr04	8210443	TT	GG	GG	INTERGENIC		
SNP_19884_A_8214727	NC_021163.1	Ca_Kabuli_Chr04	8214727	AA	GG	GG	INTERGENIC		
SNP_19885_A_8215162	NC_021163.1	Ca_Kabuli_Chr04	8215162	CC	TT	TT	INTERGENIC		
SNP_19886_A_8215898	NC_021163.1	Ca_Kabuli_Chr04	8215898	CC	TT	TT	INTERGENIC		
SNP_19887_A_8216330	NC_021163.1	Ca_Kabuli_Chr04	8216330	GG	AA	AA	INTERGENIC		
SNP_19890_A_8217067	NC_021163.1	Ca_Kabuli_Chr04	8217067	GG	AA	AA	DRR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19891_A_8217130	NC_021163.1	Ca_Kabuli_Chr04	8217130	CC	TT	TT	DRR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19892_A_8220339	NC_021163.1	Ca_Kabuli_Chr04	8220339	AA	GG	GG	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19893_A_8220517	NC_021163.1	Ca_Kabuli_Chr04	8220517	AA	GG	GG	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19894_A_8220527	NC_021163.1	Ca_Kabuli_Chr04	8220527	AA	GG	GG	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19895_A_8220543	NC_021163.1	Ca_Kabuli_Chr04	8220543	GG	CC	CC	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19896_A_8220552	NC_021163.1	Ca_Kabuli_Chr04	8220552	TT	AA	AA	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19897_A_8220719	NC_021163.1	Ca_Kabuli_Chr04	8220719	GG	AA	AA	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19898_A_8220927	NC_021163.1	Ca_Kabuli_Chr04	8220927	AA	GG	GG	URR	101503935	probable LRR receptor-like serine/threonine-protein kinase RKF3
SNP_19900_A_8222710	NC_021163.1	Ca_Kabuli_Chr04	8222710	TT	AA	AA	INTERGENIC		
SNP_19901_A_8222718	NC_021163.1	Ca_Kabuli_Chr04	8222718	CC	TT	TT	INTERGENIC		
SNP_19903_A_8226051	NC_021163.1	Ca_Kabuli_Chr04	8226051	CC	GG	GG	URR	101504254	uncharacterized LOC101504254
SNP_19904_A_8226265	NC_021163.1	Ca_Kabuli_Chr04	8226265	CC	TT	TT	URR	101504254	uncharacterized LOC101504254
SNP_19906_A_8226743	NC_021163.1	Ca_Kabuli_Chr04	8226743	CC	AA	AA	URR	101504254	uncharacterized LOC101504254
SNP_19907_A_8226833	NC_021163.1	Ca_Kabuli_Chr04	8226833	CC	TT	TT	URR	101504254	uncharacterized LOC101504254
SNP_19908_A_8226871	NC_021163.1	Ca_Kabuli_Chr04	8226871	CC	TT	TT	URR	101504254	uncharacterized LOC101504254
SNP_19909_A_8230551	NC_021163.1	Ca_Kabuli_Chr04	8230551	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_19910_A_8230760	NC_021163.1	Ca_Kabuli_Chr04	8230760	TT	CC	CC	INTERGENIC			
SNP_19911_A_8230907	NC_021163.1	Ca_Kabuli_Chr04	8230907	TT	AA	AA	INTERGENIC			
SNP_19912_A_8230922	NC_021163.1	Ca_Kabuli_Chr04	8230922	TT	CC	CC	INTERGENIC			
SNP_19913_A_8230947	NC_021163.1	Ca_Kabuli_Chr04	8230947	AA	GG	GG	INTERGENIC			
SNP_19914_A_8230948	NC_021163.1	Ca_Kabuli_Chr04	8230948	GG	AA	AA	INTERGENIC			
SNP_19915_A_8230957	NC_021163.1	Ca_Kabuli_Chr04	8230957	CC	GG	GG	INTERGENIC			
SNP_19916_A_8230962	NC_021163.1	Ca_Kabuli_Chr04	8230962	TT	CC	CC	INTERGENIC			
SNP_19917_A_8231134	NC_021163.1	Ca_Kabuli_Chr04	8231134	GG	AA	AA	INTERGENIC			
SNP_19918_A_8232297	NC_021163.1	Ca_Kabuli_Chr04	8232297	GG	AA	AA	INTERGENIC			
SNP_19919_A_8232338	NC_021163.1	Ca_Kabuli_Chr04	8232338	GG	AA	AA	INTERGENIC			
SNP_19920_A_8238090	NC_021163.1	Ca_Kabuli_Chr04	8238090	TT	AA	AA	INTRON	101504588	putative E3 ubiquitin-protein ligase RF4	
SNP_19921_A_8238145	NC_021163.1	Ca_Kabuli_Chr04	8238145	AA	TT	TT	INTRON	101504588	putative E3 ubiquitin-protein ligase RF4	
SNP_19922_A_8240408	NC_021163.1	Ca_Kabuli_Chr04	8240408	AA	GG	GG	INTERGENIC			
SNP_19923_A_8253171	NC_021163.1	Ca_Kabuli_Chr04	8253171	AA	GG	GG	SYNONYMOUS_CODING	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19924_A_8256356	NC_021163.1	Ca_Kabuli_Chr04	8256356	GG	TT	TT	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19925_A_8256679	NC_021163.1	Ca_Kabuli_Chr04	8256679	CC	AA	AA	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19926_A_8257982	NC_021163.1	Ca_Kabuli_Chr04	8257982	CC	TT	TT	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19927_A_8264040	NC_021163.1	Ca_Kabuli_Chr04	8264040	AA	GG	GG	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19928_A_8268217	NC_021163.1	Ca_Kabuli_Chr04	8268217	AA	GG	GG	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19929_A_8275233	NC_021163.1	Ca_Kabuli_Chr04	8275233	AA	TT	TT	INTRON	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19930_A_8280902	NC_021163.1	Ca_Kabuli_Chr04	8280902	CC	AA	AA	URR	101505211	piezo-type mechanosensitive ion channel homolog	
SNP_19931_A_8280904	NC_021163.1	Ca_Kabuli_Chr04	8280904	TT	CC	CC	URR	101505211	piezo-type mechanosensitive ion channel homolog	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19932_A_8280931	NC_021163.1	Ca_Kabuli_Chr04	8280931	GG	AA	AA	URR	101505211	piezo-type mechanosensitive ion channel homolog
SNP_19933_A_8280942	NC_021163.1	Ca_Kabuli_Chr04	8280942	CC	TT	TT	URR	101505211	piezo-type mechanosensitive ion channel homolog
SNP_19934_A_8281061	NC_021163.1	Ca_Kabuli_Chr04	8281061	CC	AA	AA	URR	101505211	piezo-type mechanosensitive ion channel homolog
SNP_19935_A_8281311	NC_021163.1	Ca_Kabuli_Chr04	8281311	GG	AA	AA	URR	101505211	piezo-type mechanosensitive ion channel homolog
SNP_19937_A_8281340	NC_021163.1	Ca_Kabuli_Chr04	8281340	TT	CC	CC	URR	101505211	piezo-type mechanosensitive ion channel homolog
SNP_19938_A_8283190	NC_021163.1	Ca_Kabuli_Chr04	8283190	AA	GG	GG	DRR	101505765	auxin-binding protein T85
SNP_19939_A_8292362	NC_021163.1	Ca_Kabuli_Chr04	8292362	TT	GG	GG	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19940_A_8292398	NC_021163.1	Ca_Kabuli_Chr04	8292398	CC	TT	TT	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19941_A_8292406	NC_021163.1	Ca_Kabuli_Chr04	8292406	AA	GG	GG	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19942_A_8292426	NC_021163.1	Ca_Kabuli_Chr04	8292426	CC	TT	TT	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19943_A_8292675	NC_021163.1	Ca_Kabuli_Chr04	8292675	GG	AA	AA	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19944_A_8292716	NC_021163.1	Ca_Kabuli_Chr04	8292716	GG	AA	AA	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19946_A_8293502	NC_021163.1	Ca_Kabuli_Chr04	8293502	AA	TT	TT	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19947_A_8293516	NC_021163.1	Ca_Kabuli_Chr04	8293516	TT	CC	CC	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19948_A_8293521	NC_021163.1	Ca_Kabuli_Chr04	8293521	CC	TT	TT	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19949_A_8293584	NC_021163.1	Ca_Kabuli_Chr04	8293584	TT	CC	CC	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19950_A_8293589	NC_021163.1	Ca_Kabuli_Chr04	8293589	TT	AA	AA	URR	101506082	probable galacturonosyltransferase-like 4
SNP_19952_A_8296019	NC_021163.1	Ca_Kabuli_Chr04	8296019	GG	AA	AA	INTERGENIC		
SNP_19955_A_8308913	NC_021163.1	Ca_Kabuli_Chr04	8308913	GG	AA	AA	URR	101493086	uncharacterized LOC101493086
SNP_19956_A_8309060	NC_021163.1	Ca_Kabuli_Chr04	8309060	AA	TT	TT	URR	101493086	uncharacterized LOC101493086
SNP_19958_A_8310881	NC_021163.1	Ca_Kabuli_Chr04	8310881	AA	GG	GG	INTERGENIC		
SNP_19960_A_8312474	NC_021163.1	Ca_Kabuli_Chr04	8312474	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19961_A_8312482	NC_021163.1	Ca_Kabuli_Chr04	8312482	CC	AA	AA	INTERGENIC		
SNP_19962_A_8312496	NC_021163.1	Ca_Kabuli_Chr04	8312496	AA	GG	GG	INTERGENIC		
SNP_19963_A_8312508	NC_021163.1	Ca_Kabuli_Chr04	8312508	CC	TT	TT	INTERGENIC		
SNP_19964_A_8312528	NC_021163.1	Ca_Kabuli_Chr04	8312528	AA	CC	CC	INTERGENIC		
SNP_19965_A_8313997	NC_021163.1	Ca_Kabuli_Chr04	8313997	AA	GG	GG	INTERGENIC		
SNP_19966_A_8315864	NC_021163.1	Ca_Kabuli_Chr04	8315864	CC	TT	TT	INTERGENIC		
SNP_19970_A_8316745	NC_021163.1	Ca_Kabuli_Chr04	8316745	AA	GG	GG	INTERGENIC		
SNP_19971_A_8319437	NC_021163.1	Ca_Kabuli_Chr04	8319437	TT	AA	AA	INTERGENIC		
SNP_19972_A_8319467	NC_021163.1	Ca_Kabuli_Chr04	8319467	CC	TT	TT	INTERGENIC		
SNP_19973_A_8319743	NC_021163.1	Ca_Kabuli_Chr04	8319743	TT	GG	GG	INTERGENIC		
SNP_19974_A_8320650	NC_021163.1	Ca_Kabuli_Chr04	8320650	AA	TT	TT	INTERGENIC		
SNP_19975_A_8320784	NC_021163.1	Ca_Kabuli_Chr04	8320784	AA	GG	GG	INTERGENIC		
SNP_19976_A_8321550	NC_021163.1	Ca_Kabuli_Chr04	8321550	AA	CC	CC	INTERGENIC		
SNP_19977_A_8321561	NC_021163.1	Ca_Kabuli_Chr04	8321561	CC	TT	TT	INTERGENIC		
SNP_19979_A_8332120	NC_021163.1	Ca_Kabuli_Chr04	8332120	GG	CC	CC	INTERGENIC		
SNP_19980_A_8333148	NC_021163.1	Ca_Kabuli_Chr04	8333148	GG	AA	AA	URR	10150702	uncharacterized LOC10150702
SNP_19981_A_8333240	NC_021163.1	Ca_Kabuli_Chr04	8333240	AA	TT	TT	URR	10150702	uncharacterized LOC10150702
SNP_19982_A_8333387	NC_021163.1	Ca_Kabuli_Chr04	8333387	GG	AA	AA	URR	10150702	uncharacterized LOC10150702
SNP_19984_A_8333489	NC_021163.1	Ca_Kabuli_Chr04	8333489	CC	AA	AA	URR	10150702	uncharacterized LOC10150702
SNP_19985_A_8334692	NC_021163.1	Ca_Kabuli_Chr04	8334692	CC	TT	TT	DRR	101507390	mitochondrial ubiquitin ligase activator of NFKB 1
SNP_19986_A_8340242	NC_021163.1	Ca_Kabuli_Chr04	8340242	AA	GG	GG	DRR	101493412	uncharacterized LOC101493412
SNP_19988_A_8343019	NC_021163.1	Ca_Kabuli_Chr04	8343019	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_19989_A_8343100	NC_021163.1	Ca_Kabuli_Chr04	8343100	AA	CC	CC	INTERGENIC		
SNP_19990_A_8343102	NC_021163.1	Ca_Kabuli_Chr04	8343102	AA	TT	TT	INTERGENIC		
SNP_19991_A_8345982	NC_021163.1	Ca_Kabuli_Chr04	8345982	CC	TT	TT	DRR	101507698	uncharacterized LOC101507698
SNP_19992_A_8349125	NC_021163.1	Ca_Kabuli_Chr04	8349125	AA	GG	GG	INTERGENIC		
SNP_19993_A_8350573	NC_021163.1	Ca_Kabuli_Chr04	8350573	GG	TT	TT	URR	101507698	uncharacterized LOC101507698
SNP_19994_A_8350993	NC_021163.1	Ca_Kabuli_Chr04	8350993	CC	TT	TT	URR	101507698	uncharacterized LOC101507698
SNP_19995_A_8351064	NC_021163.1	Ca_Kabuli_Chr04	8351064	TT	CC	CC	URR	101507698	uncharacterized LOC101507698
SNP_19996_A_8351094	NC_021163.1	Ca_Kabuli_Chr04	8351094	CC	TT	TT	URR	101507698	uncharacterized LOC101507698
SNP_19997_A_8352067	NC_021163.1	Ca_Kabuli_Chr04	8352067	TT	GG	GG	URR	101507698	uncharacterized LOC101507698
SNP_19998_A_8354058	NC_021163.1	Ca_Kabuli_Chr04	8354058	AA	GG	GG	INTRON	101508027	uncharacterized LOC101508027
SNP_19999_A_8354314	NC_021163.1	Ca_Kabuli_Chr04	8354314	GG	TT	TT	INTRON	101508027	uncharacterized LOC101508027
SNP_20000_A_8354854	NC_021163.1	Ca_Kabuli_Chr04	8354854	TT	CC	CC	INTRON	101508027	uncharacterized LOC101508027
SNP_20001_A_8360438	NC_021163.1	Ca_Kabuli_Chr04	8360438	GG	CC	CC	NON_SYNONYMOUS_CODING	101508027	uncharacterized LOC101508027
SNP_20002_A_8361616	NC_021163.1	Ca_Kabuli_Chr04	8361616	CC	TT	TT	INTERGENIC		
SNP_20003_A_8370216	NC_021163.1	Ca_Kabuli_Chr04	8370216	CC	AA	AA	DRR	101508652	probable glutathione S-transferase
SNP_20005_A_8372930	NC_021163.1	Ca_Kabuli_Chr04	8372930	GG	CC	CC	URR	101508652	probable glutathione S-transferase
SNP_20006_A_8373139	NC_021163.1	Ca_Kabuli_Chr04	8373139	GG	TT	TT	URR	101508652	probable glutathione S-transferase
SNP_20007_A_8373155	NC_021163.1	Ca_Kabuli_Chr04	8373155	AA	GG	GG	URR	101508652	probable glutathione S-transferase
SNP_20008_A_8373162	NC_021163.1	Ca_Kabuli_Chr04	8373162	AA	GG	GG	URR	101508652	probable glutathione S-transferase
SNP_20010_A_8373255	NC_021163.1	Ca_Kabuli_Chr04	8373255	AA	GG	GG	URR	101508652	probable glutathione S-transferase
SNP_20011_A_8373259	NC_021163.1	Ca_Kabuli_Chr04	8373259	TT	CC	CC	URR	101508652	probable glutathione S-transferase
SNP_20012_A_8373269	NC_021163.1	Ca_Kabuli_Chr04	8373269	TT	CC	CC	URR	101508652	probable glutathione S-transferase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20013_A_8373288	NC_021163.1	Ca_Kabuli_Chr04	8373288	GG		AA	AA	URR	101508652	probable glutathione S-transferase
SNP_20014_A_8373346	NC_021163.1	Ca_Kabuli_Chr04	8373346	AA		TT	TT	URR	101508652	probable glutathione S-transferase
SNP_20016_A_8375490	NC_021163.1	Ca_Kabuli_Chr04	8375490	TT		CC	CC	INTERGENIC		
SNP_20017_A_8375498	NC_021163.1	Ca_Kabuli_Chr04	8375498	AA		TT	TT	INTERGENIC		
SNP_20018_A_8375845	NC_021163.1	Ca_Kabuli_Chr04	8375845	AA		GG	GG	INTERGENIC		
SNP_20021_A_8377438	NC_021163.1	Ca_Kabuli_Chr04	8377438	GG		AA	AA	URR	101508970	Unknown function
SNP_20022_A_8377560	NC_021163.1	Ca_Kabuli_Chr04	8377560	TT		CC	CC	DRR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20024_A_8377654	NC_021163.1	Ca_Kabuli_Chr04	8377654	CC		TT	TT	DRR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20026_A_8377718	NC_021163.1	Ca_Kabuli_Chr04	8377718	AA		CC	CC	DRR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20027_A_8379089	NC_021163.1	Ca_Kabuli_Chr04	8379089	AA		GG	GG	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20029_A_8383147	NC_021163.1	Ca_Kabuli_Chr04	8383147	AA		GG	GG	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20030_A_8383149	NC_021163.1	Ca_Kabuli_Chr04	8383149	GG		AA	AA	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20031_A_8384595	NC_021163.1	Ca_Kabuli_Chr04	8384595	AA		GG	GG	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20032_A_8384649	NC_021163.1	Ca_Kabuli_Chr04	8384649	GG		AA	AA	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20034_A_8389543	NC_021163.1	Ca_Kabuli_Chr04	8389543	AA		GG	GG	INTRON	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20035_A_8391077	NC_021163.1	Ca_Kabuli_Chr04	8391077	AA		TT	TT	URR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20036_A_8391079	NC_021163.1	Ca_Kabuli_Chr04	8391079	GG		CC	CC	URR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20037_A_8391081	NC_021163.1	Ca_Kabuli_Chr04	8391081	GG		AA	AA	URR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20038_A_8391095	NC_021163.1	Ca_Kabuli_Chr04	8391095	TT		AA	AA	URR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20039_A_8391097	NC_021163.1	Ca_Kabuli_Chr04	8391097	AA		GG	GG	URR	101509283	probable RNA polymerase II transcription factor B subunit 1-1
SNP_20040_A_8395216	NC_021163.1	Ca_Kabuli_Chr04	8395216	GG		TT	TT	INTERGENIC		
SNP_20041_A_8395737	NC_021163.1	Ca_Kabuli_Chr04	8395737	GG		AA	AA	DRR	101510250	chaperonin CPN60-2, mitochondrial-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20043_A_8396997	NC_021163.1	Ca_Kabuli_Chr04	8396997	GG	AA	AA	URR	101509597	pentatricopeptide repeat-containing protein At3g23020-like
SNP_20044_A_8399356	NC_021163.1	Ca_Kabuli_Chr04	8399356	AA	GG	GG	INTERGENIC		
SNP_20045_A_8399391	NC_021163.1	Ca_Kabuli_Chr04	8399391	AA	TT	TT	INTERGENIC		
SNP_20046_A_8399394	NC_021163.1	Ca_Kabuli_Chr04	8399394	AA	CC	CC	INTERGENIC		
SNP_20047_A_8400105	NC_021163.1	Ca_Kabuli_Chr04	8400105	GG	AA	AA	INTERGENIC		
SNP_20049_A_8401867	NC_021163.1	Ca_Kabuli_Chr04	8401867	CC	TT	TT	URR	101510250	chaperonin CPN60-2, mitochondrial-like
SNP_20050_A_8402782	NC_021163.1	Ca_Kabuli_Chr04	8402782	AA	CC	CC	URR	101510250	chaperonin CPN60-2, mitochondrial-like
SNP_20051_A_8408107	NC_021163.1	Ca_Kabuli_Chr04	8408107	GG	AA	AA	INTRON	101509928	Unknown function
SNP_20052_A_8408118	NC_021163.1	Ca_Kabuli_Chr04	8408118	GG	AA	AA	INTRON	101509928	Unknown function
SNP_20053_A_8409841	NC_021163.1	Ca_Kabuli_Chr04	8409841	GG	AA	AA	URR	101509928	Unknown function
SNP_20054_A_8409846	NC_021163.1	Ca_Kabuli_Chr04	8409846	TT	CC	CC	URR	101509928	Unknown function
SNP_20055_A_8409905	NC_021163.1	Ca_Kabuli_Chr04	8409905	GG	TT	TT	URR	101509928	Unknown function
SNP_20056_A_8410147	NC_021163.1	Ca_Kabuli_Chr04	8410147	TT	GG	GG	URR	101509928	Unknown function
SNP_20057_A_8411493	NC_021163.1	Ca_Kabuli_Chr04	8411493	GG	AA	AA	INTERGENIC		
SNP_20058_A_8411501	NC_021163.1	Ca_Kabuli_Chr04	8411501	TT	GG	GG	INTERGENIC		
SNP_20059_A_8411528	NC_021163.1	Ca_Kabuli_Chr04	8411528	CC	TT	TT	INTERGENIC		
SNP_20060_A_8411537	NC_021163.1	Ca_Kabuli_Chr04	8411537	GG	AA	AA	INTERGENIC		
SNP_20061_A_8413734	NC_021163.1	Ca_Kabuli_Chr04	8413734	CC	AA	AA	INTERGENIC		
SNP_20062_A_8413750	NC_021163.1	Ca_Kabuli_Chr04	8413750	GG	AA	AA	INTERGENIC		
SNP_20064_A_8413770	NC_021163.1	Ca_Kabuli_Chr04	8413770	CC	TT	TT	INTERGENIC		
SNP_20065_A_8414031	NC_021163.1	Ca_Kabuli_Chr04	8414031	AA	GG	GG	INTERGENIC		
SNP_20066_A_8414039	NC_021163.1	Ca_Kabuli_Chr04	8414039	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20067_A_8414070	NC_021163.1	Ca_Kabuli_Chr04	8414070	CC	TT	TT	INTERGENIC		
SNP_20068_A_8414085	NC_021163.1	Ca_Kabuli_Chr04	8414085	TT	CC	CC	INTERGENIC		
SNP_20069_A_8414157	NC_021163.1	Ca_Kabuli_Chr04	8414157	TT	CC	CC	INTERGENIC		
SNP_20070_A_8414160	NC_021163.1	Ca_Kabuli_Chr04	8414160	GG	AA	AA	INTERGENIC		
SNP_20071_A_8414704	NC_021163.1	Ca_Kabuli_Chr04	8414704	GG	TT	TT	INTERGENIC		
SNP_20072_A_8414712	NC_021163.1	Ca_Kabuli_Chr04	8414712	AA	GG	GG	INTERGENIC		
SNP_20073_A_8414719	NC_021163.1	Ca_Kabuli_Chr04	8414719	TT	AA	AA	INTERGENIC		
SNP_20074_A_8414721	NC_021163.1	Ca_Kabuli_Chr04	8414721	TT	AA	AA	INTERGENIC		
SNP_20075_A_8414727	NC_021163.1	Ca_Kabuli_Chr04	8414727	TT	CC	CC	INTERGENIC		
SNP_20076_A_8415883	NC_021163.1	Ca_Kabuli_Chr04	8415883	AA	GG	GG	DRR	101510582	ethylene-responsive transcription factor ERF062
SNP_20077_A_8415884	NC_021163.1	Ca_Kabuli_Chr04	8415884	TT	CC	CC	DRR	101510582	ethylene-responsive transcription factor ERF062
SNP_20078_A_8415888	NC_021163.1	Ca_Kabuli_Chr04	8415888	CC	AA	AA	DRR	101510582	ethylene-responsive transcription factor ERF062
SNP_20079_A_8415898	NC_021163.1	Ca_Kabuli_Chr04	8415898	AA	GG	GG	DRR	101510582	ethylene-responsive transcription factor ERF062
SNP_20080_A_8415911	NC_021163.1	Ca_Kabuli_Chr04	8415911	AA	CC	CC	DRR	101510582	ethylene-responsive transcription factor ERF062
SNP_20081_A_8417652	NC_021163.1	Ca_Kabuli_Chr04	8417652	CC	TT	TT	DRR	101510909	stellacyanin
SNP_20082_A_8417674	NC_021163.1	Ca_Kabuli_Chr04	8417674	AA	TT	TT	DRR	101510909	stellacyanin
SNP_20084_A_8418852	NC_021163.1	Ca_Kabuli_Chr04	8418852	AA	GG	GG	URR	101510582	ethylene-responsive transcription factor ERF062
SNP_20085_A_8419063	NC_021163.1	Ca_Kabuli_Chr04	8419063	AA	GG	GG	URR	101510582	ethylene-responsive transcription factor ERF062
SNP_20086_A_8419064	NC_021163.1	Ca_Kabuli_Chr04	8419064	AA	GG	GG	URR	101510582	ethylene-responsive transcription factor ERF062
SNP_20087_A_8421511	NC_021163.1	Ca_Kabuli_Chr04	8421511	GG	TT	TT	URR	101511222	uncharacterized LOC101511222
SNP_20089_A_8422206	NC_021163.1	Ca_Kabuli_Chr04	8422206	GG	AA	AA	URR	101511222	uncharacterized LOC101511222
SNP_20090_A_8422418	NC_021163.1	Ca_Kabuli_Chr04	8422418	AA	GG	GG	URR	101511222	uncharacterized LOC101511222

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20091_A_8422438	NC_021163.1	Ca_Kabuli_Chr04	8422438	GG	AA	AA	URR	101511222	uncharacterized LOC101511222
SNP_20092_A_8423823	NC_021163.1	Ca_Kabuli_Chr04	8423823	CC	TT	TT	INTERGENIC		
SNP_20093_A_8424811	NC_021163.1	Ca_Kabuli_Chr04	8424811	TT	CC	CC	INTERGENIC		
SNP_20094_A_8424850	NC_021163.1	Ca_Kabuli_Chr04	8424850	TT	CC	CC	INTERGENIC		
SNP_20095_A_8424851	NC_021163.1	Ca_Kabuli_Chr04	8424851	TT	CC	CC	INTERGENIC		
SNP_20096_A_8424879	NC_021163.1	Ca_Kabuli_Chr04	8424879	GG	AA	AA	INTERGENIC		
SNP_20097_A_8424881	NC_021163.1	Ca_Kabuli_Chr04	8424881	CC	TT	TT	INTERGENIC		
SNP_20098_A_8424999	NC_021163.1	Ca_Kabuli_Chr04	8424999	TT	CC	CC	INTERGENIC		
SNP_20099_A_8425301	NC_021163.1	Ca_Kabuli_Chr04	8425301	CC	TT	TT	INTERGENIC		
SNP_20100_A_8425321	NC_021163.1	Ca_Kabuli_Chr04	8425321	GG	AA	AA	INTERGENIC		
SNP_20101_A_8425322	NC_021163.1	Ca_Kabuli_Chr04	8425322	AA	TT	TT	INTERGENIC		
SNP_20102_A_8429318	NC_021163.1	Ca_Kabuli_Chr04	8429318	GG	AA	AA	INTRON	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20103_A_8432481	NC_021163.1	Ca_Kabuli_Chr04	8432481	TT	CC	CC	INTRON	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20104_A_8440161	NC_021163.1	Ca_Kabuli_Chr04	8440161	TT	AA	AA	INTRON	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20106_A_8442257	NC_021163.1	Ca_Kabuli_Chr04	8442257	TT	AA	AA	INTRON	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20107_A_8442598	NC_021163.1	Ca_Kabuli_Chr04	8442598	GG	AA	AA	SYNONYMOUS_CODING	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20108_A_8445827	NC_021163.1	Ca_Kabuli_Chr04	8445827	TT	CC	CC	INTRON	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20109_A_8446102	NC_021163.1	Ca_Kabuli_Chr04	8446102	TT	CC	CC	INTERGENIC		
SNP_20110_A_8448593	NC_021163.1	Ca_Kabuli_Chr04	8448593	AA	GG	GG	URR	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20111_A_8448601	NC_021163.1	Ca_Kabuli_Chr04	8448601	TT	AA	AA	URR	101511538	polycomb group protein EMBRYONIC FLOWER 2-like
SNP_20112_A_8454042	NC_021163.1	Ca_Kabuli_Chr04	8454042	GG	AA	AA	INTERGENIC		
SNP_20113_A_8454163	NC_021163.1	Ca_Kabuli_Chr04	8454163	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_20114_A_8454184	NC_021163.1	Ca_Kabuli_Chr04	8454184	CC	GG	GG	INTERGENIC			
SNP_20115_A_8454198	NC_021163.1	Ca_Kabuli_Chr04	8454198	TT	CC	CC	INTERGENIC			
SNP_20116_A_8454218	NC_021163.1	Ca_Kabuli_Chr04	8454218	AA	GG	GG	INTERGENIC			
SNP_20117_A_8454243	NC_021163.1	Ca_Kabuli_Chr04	8454243	GG	AA	AA	INTERGENIC			
SNP_20118_A_8458075	NC_021163.1	Ca_Kabuli_Chr04	8458075	AA	TT	TT	INTERGENIC			
SNP_20119_A_8458717	NC_021163.1	Ca_Kabuli_Chr04	8458717	CC	TT	TT	INTERGENIC			
SNP_20120_A_8459387	NC_021163.1	Ca_Kabuli_Chr04	8459387	CC	TT	TT	INTERGENIC			
SNP_20121_A_8460149	NC_021163.1	Ca_Kabuli_Chr04	8460149	AA	TT	TT	INTERGENIC			
SNP_20122_A_8460659	NC_021163.1	Ca_Kabuli_Chr04	8460659	CC	TT	TT	INTERGENIC			
SNP_20123_A_8460669	NC_021163.1	Ca_Kabuli_Chr04	8460669	GG	TT	TT	INTERGENIC			
SNP_20124_A_8460676	NC_021163.1	Ca_Kabuli_Chr04	8460676	CC	TT	TT	INTERGENIC			
SNP_20125_A_8463548	NC_021163.1	Ca_Kabuli_Chr04	8463548	AA	GG	GG	NON_SYNONYMOUS_CODING		101512184	anthocyanidin 3-O-glucosyltransferase
SNP_20126_A_8463724	NC_021163.1	Ca_Kabuli_Chr04	8463724	GG	AA	AA	DRR		101512184	anthocyanidin 3-O-glucosyltransferase
SNP_20128_A_8467303	NC_021163.1	Ca_Kabuli_Chr04	8467303	GG	AA	AA	INTERGENIC			
SNP_20129_A_8467633	NC_021163.1	Ca_Kabuli_Chr04	8467633	TT	AA	AA	INTERGENIC			
SNP_20130_A_8468354	NC_021163.1	Ca_Kabuli_Chr04	8468354	TT	CC	CC	INTERGENIC			
SNP_20131_A_8468381	NC_021163.1	Ca_Kabuli_Chr04	8468381	CC	TT	TT	INTERGENIC			
SNP_20132_A_8468413	NC_021163.1	Ca_Kabuli_Chr04	8468413	AA	GG	GG	INTERGENIC			
SNP_20133_A_8471174	NC_021163.1	Ca_Kabuli_Chr04	8471174	AA	GG	GG	INTERGENIC			
SNP_20135_A_8471543	NC_021163.1	Ca_Kabuli_Chr04	8471543	CC	TT	TT	DRR		101512819	ATP-dependent 6-phosphofructokinase 4, chloroplasic
SNP_20136_A_8474050	NC_021163.1	Ca_Kabuli_Chr04	8474050	AA	TT	TT	INTRON		101512819	ATP-dependent 6-phosphofructokinase 4, chloroplasic
SNP_20137_A_8475123	NC_021163.1	Ca_Kabuli_Chr04	8475123	TT	CC	CC	INTRON		101512819	ATP-dependent 6-phosphofructokinase 4, chloroplasic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20139_A_8475168	NC_021163.1	Ca_Kabuli_Chr04	8475168	GG	CC	CC	INTRON	101512819	ATP-dependent 6-phosphofructokinase 4, chloroplastic
SNP_20140_A_8478191	NC_021163.1	Ca_Kabuli_Chr04	8478191	GG	AA	AA	INTERGENIC		
SNP_20141_A_8478230	NC_021163.1	Ca_Kabuli_Chr04	8478230	AA	CC	CC	INTERGENIC		
SNP_20143_A_8479518	NC_021163.1	Ca_Kabuli_Chr04	8479518	TT	CC	CC	INTERGENIC		
SNP_20144_A_8480713	NC_021163.1	Ca_Kabuli_Chr04	8480713	CC	AA	AA	INTERGENIC		
SNP_20145_A_8480714	NC_021163.1	Ca_Kabuli_Chr04	8480714	TT	CC	CC	INTERGENIC		
SNP_20146_A_8480716	NC_021163.1	Ca_Kabuli_Chr04	8480716	TT	AA	AA	INTERGENIC		
SNP_20147_A_8481759	NC_021163.1	Ca_Kabuli_Chr04	8481759	CC	TT	TT	URR	101512819	ATP-dependent 6-phosphofructokinase 4, chloroplastic
SNP_20148_A_8481957	NC_021163.1	Ca_Kabuli_Chr04	8481957	GG	AA	AA	URR	101512819	ATP-dependent 6-phosphofructokinase 4, chloroplastic
SNP_20149_A_8482331	NC_021163.1	Ca_Kabuli_Chr04	8482331	GG	AA	AA	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20150_A_8482379	NC_021163.1	Ca_Kabuli_Chr04	8482379	AA	GG	GG	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20151_A_8482560	NC_021163.1	Ca_Kabuli_Chr04	8482560	GG	CC	CC	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20152_A_8482782	NC_021163.1	Ca_Kabuli_Chr04	8482782	GG	AA	AA	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20153_A_8483053	NC_021163.1	Ca_Kabuli_Chr04	8483053	GG	AA	AA	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20154_A_8483063	NC_021163.1	Ca_Kabuli_Chr04	8483063	CC	AA	AA	DRR	101513364	WD repeat-containing protein WRAP73
SNP_20155_A_8489407	NC_021163.1	Ca_Kabuli_Chr04	8489407	TT	AA	AA	URR	101513364	WD repeat-containing protein WRAP73
SNP_20156_A_8489417	NC_021163.1	Ca_Kabuli_Chr04	8489417	GG	TT	TT	URR	101513364	WD repeat-containing protein WRAP73
SNP_20158_A_8494149	NC_021163.1	Ca_Kabuli_Chr04	8494149	AA	TT	TT	INTRON	101513682	putative E3 ubiquitin-protein ligase LIN
SNP_20160_A_8499663	NC_021163.1	Ca_Kabuli_Chr04	8499663	TT	CC	CC	INTERGENIC		
SNP_20161_A_8499968	NC_021163.1	Ca_Kabuli_Chr04	8499968	GG	CC	CC	INTERGENIC		
SNP_20162_A_8500902	NC_021163.1	Ca_Kabuli_Chr04	8500902	CC	AA	AA	DRR	101514252	mitochondrial uncoupling protein 3
SNP_20164_A_8502411	NC_021163.1	Ca_Kabuli_Chr04	8502411	CC	TT	TT	URR	101513682	putative E3 ubiquitin-protein ligase LIN

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20165_A_8502419	NC_021163.1	Ca_Kabuli_Chr04	8502419	TT	CC	CC	URR	101513682	putative E3 ubiquitin-protein ligase LIN
SNP_20166_A_8502857	NC_021163.1	Ca_Kabuli_Chr04	8502857	TT	CC	CC	INTERGENIC		
SNP_20167_A_8502888	NC_021163.1	Ca_Kabuli_Chr04	8502888	CC	TT	TT	INTERGENIC		
SNP_20168_A_8503209	NC_021163.1	Ca_Kabuli_Chr04	8503209	AA	TT	TT	INTERGENIC		
SNP_20169_A_8505107	NC_021163.1	Ca_Kabuli_Chr04	8505107	AA	CC	CC	DRR	101514568	nuclear pore complex protein NUP1
SNP_20170_A_8508878	NC_021163.1	Ca_Kabuli_Chr04	8508878	AA	GG	GG	INTRON	101514568	nuclear pore complex protein NUP1
SNP_20171_A_8508935	NC_021163.1	Ca_Kabuli_Chr04	8508935	TT	AA	AA	INTRON	101514568	nuclear pore complex protein NUP1
SNP_20173_A_8512666	NC_021163.1	Ca_Kabuli_Chr04	8512666	AA	GG	GG	INTERGENIC		
SNP_20175_A_8514969	NC_021163.1	Ca_Kabuli_Chr04	8514969	GG	TT	TT	URR	101514568	nuclear pore complex protein NUP1
SNP_20176_A_8515197	NC_021163.1	Ca_Kabuli_Chr04	8515197	TT	CC	CC	URR	101514568	nuclear pore complex protein NUP1
SNP_20177_A_8515304	NC_021163.1	Ca_Kabuli_Chr04	8515304	CC	TT	TT	URR	101514568	nuclear pore complex protein NUP1
SNP_20178_A_8515309	NC_021163.1	Ca_Kabuli_Chr04	8515309	TT	CC	CC	URR	101514568	nuclear pore complex protein NUP1
SNP_20179_A_8515830	NC_021163.1	Ca_Kabuli_Chr04	8515830	GG	TT	TT	URR	101514568	nuclear pore complex protein NUP1
SNP_20180_A_8515832	NC_021163.1	Ca_Kabuli_Chr04	8515832	AA	GG	GG	URR	101514568	nuclear pore complex protein NUP1
SNP_20181_A_8517092	NC_021163.1	Ca_Kabuli_Chr04	8517092	CC	GG	GG	DRR	101514891	uncharacterized LOC101514891
SNP_20183_A_8522144	NC_021163.1	Ca_Kabuli_Chr04	8522144	TT	CC	CC	INTERGENIC		
SNP_20185_A_8522247	NC_021163.1	Ca_Kabuli_Chr04	8522247	AA	GG	GG	INTERGENIC		
SNP_20186_A_8522268	NC_021163.1	Ca_Kabuli_Chr04	8522268	CC	TT	TT	INTERGENIC		
SNP_20188_A_8548515	NC_021163.1	Ca_Kabuli_Chr04	8548515	TT	AA	AA	URR	101494368	Unknown function
SNP_20189_A_8568323	NC_021163.1	Ca_Kabuli_Chr04	8568323	TT	AA	AA	DRR	101491969	nudix hydrolase 26, chloroplastic
SNP_20191_A_8612753	NC_021163.1	Ca_Kabuli_Chr04	8612753	TT	AA	AA	INTERGENIC		
SNP_20192_A_8612768	NC_021163.1	Ca_Kabuli_Chr04	8612768	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20193_A_8613496	NC_021163.1	Ca_Kabuli_Chr04	8613496	TT	CC	CC	INTERGENIC		
SNP_20195_A_8613793	NC_021163.1	Ca_Kabuli_Chr04	8613793	CC	TT	TT	INTERGENIC		
SNP_20196_A_8614053	NC_021163.1	Ca_Kabuli_Chr04	8614053	TT	AA	AA	INTERGENIC		
SNP_20198_A_8622180	NC_021163.1	Ca_Kabuli_Chr04	8622180	CC	TT	TT	URR	101493943	uncharacterized LOC101493943
SNP_20199_A_8622936	NC_021163.1	Ca_Kabuli_Chr04	8622936	TT	CC	CC	URR	101493943	uncharacterized LOC101493943
SNP_20200_A_8624061	NC_021163.1	Ca_Kabuli_Chr04	8624061	AA	GG	GG	INTERGENIC		
SNP_20201_A_8624091	NC_021163.1	Ca_Kabuli_Chr04	8624091	AA	GG	GG	INTERGENIC		
SNP_20202_A_8625673	NC_021163.1	Ca_Kabuli_Chr04	8625673	AA	GG	GG	DRR	101494270	shugoshin-1
SNP_20203_A_8625683	NC_021163.1	Ca_Kabuli_Chr04	8625683	TT	CC	CC	DRR	101494270	shugoshin-1
SNP_20204_A_8625699	NC_021163.1	Ca_Kabuli_Chr04	8625699	CC	TT	TT	DRR	101494270	shugoshin-1
SNP_20205_A_8625705	NC_021163.1	Ca_Kabuli_Chr04	8625705	CC	TT	TT	DRR	101494270	shugoshin-1
SNP_20206_A_8625717	NC_021163.1	Ca_Kabuli_Chr04	8625717	TT	AA	AA	DRR	101494270	shugoshin-1
SNP_20207_A_8625724	NC_021163.1	Ca_Kabuli_Chr04	8625724	GG	AA	AA	DRR	101494270	shugoshin-1
SNP_20208_A_8625725	NC_021163.1	Ca_Kabuli_Chr04	8625725	TT	CC	CC	DRR	101494270	shugoshin-1
SNP_20209_A_8625746	NC_021163.1	Ca_Kabuli_Chr04	8625746	CC	TT	TT	DRR	101494270	shugoshin-1
SNP_20210_A_8625755	NC_021163.1	Ca_Kabuli_Chr04	8625755	GG	AA	AA	DRR	101494270	shugoshin-1
SNP_20211_A_8626074	NC_021163.1	Ca_Kabuli_Chr04	8626074	AA	GG	GG	DRR	101494270	shugoshin-1
SNP_20212_A_8626079	NC_021163.1	Ca_Kabuli_Chr04	8626079	AA	GG	GG	DRR	101494270	shugoshin-1
SNP_20213_A_8626080	NC_021163.1	Ca_Kabuli_Chr04	8626080	GG	TT	TT	DRR	101494270	shugoshin-1
SNP_20214_A_8626090	NC_021163.1	Ca_Kabuli_Chr04	8626090	AA	TT	TT	DRR	101494270	shugoshin-1
SNP_20215_A_8630799	NC_021163.1	Ca_Kabuli_Chr04	8630799	CC	TT	TT	URR	101494270	shugoshin-1
SNP_20216_A_8633605	NC_021163.1	Ca_Kabuli_Chr04	8633605	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20217_A_8633611	NC_021163.1	Ca_Kabuli_Chr04	8633611	TT	CC	CC	INTERGENIC		
SNP_20218_A_8633688	NC_021163.1	Ca_Kabuli_Chr04	8633688	GG	AA	AA	INTERGENIC		
SNP_20219_A_8635646	NC_021163.1	Ca_Kabuli_Chr04	8635646	TT	AA	AA	INTERGENIC		
SNP_20220_A_8639647	NC_021163.1	Ca_Kabuli_Chr04	8639647	TT	CC	CC	DRR	101494578	uncharacterized LOC101494578
SNP_20221_A_8643533	NC_021163.1	Ca_Kabuli_Chr04	8643533	TT	GG	GG	INTERGENIC		
SNP_20222_A_8643895	NC_021163.1	Ca_Kabuli_Chr04	8643895	AA	GG	GG	INTERGENIC		
SNP_20223_A_8643896	NC_021163.1	Ca_Kabuli_Chr04	8643896	AA	GG	GG	INTERGENIC		
SNP_20224_A_8648091	NC_021163.1	Ca_Kabuli_Chr04	8648091	TT	GG	GG	INTRON	101494893	myb family transcription factor APL-like
SNP_20225_A_8648140	NC_021163.1	Ca_Kabuli_Chr04	8648140	GG	CC	CC	INTRON	101494893	myb family transcription factor APL-like
SNP_20226_A_8660115	NC_021163.1	Ca_Kabuli_Chr04	8660115	TT	AA	AA	SYNONYMOUS_CODING	101495647	putative disease resistance RPP13-like protein 2
SNP_20227_A_8661708	NC_021163.1	Ca_Kabuli_Chr04	8661708	CC	TT	TT	INTERGENIC		
SNP_20228_A_8661795	NC_021163.1	Ca_Kabuli_Chr04	8661795	AA	TT	TT	INTERGENIC		
SNP_20229_A_8662718	NC_021163.1	Ca_Kabuli_Chr04	8662718	CC	GG	GG	URR	101495647	putative disease resistance RPP13-like protein 2
SNP_20230_A_8666356	NC_021163.1	Ca_Kabuli_Chr04	8666356	CC	TT	TT	DRR	101496750	putative disease resistance RPP13-like protein 2
SNP_20231_A_8666365	NC_021163.1	Ca_Kabuli_Chr04	8666365	CC	GG	GG	DRR	101496750	putative disease resistance RPP13-like protein 2
SNP_20232_A_8666554	NC_021163.1	Ca_Kabuli_Chr04	8666554	CC	AA	AA	DRR	101496750	putative disease resistance RPP13-like protein 2
SNP_20233_A_8666656	NC_021163.1	Ca_Kabuli_Chr04	8666656	CC	GG	GG	URR	101496195	uncharacterized LOC101496195
SNP_20234_A_8666710	NC_021163.1	Ca_Kabuli_Chr04	8666710	AA	GG	GG	URR	101496195	uncharacterized LOC101496195
SNP_20235_A_8666722	NC_021163.1	Ca_Kabuli_Chr04	8666722	GG	AA	AA	URR	101496195	uncharacterized LOC101496195
SNP_20236_A_8668387	NC_021163.1	Ca_Kabuli_Chr04	8668387	GG	AA	AA	URR	101496195	uncharacterized LOC101496195
SNP_20237_A_8668393	NC_021163.1	Ca_Kabuli_Chr04	8668393	AA	GG	GG	URR	101496195	uncharacterized LOC101496195
SNP_20238_A_8668440	NC_021163.1	Ca_Kabuli_Chr04	8668440	AA	CC	CC	URR	101496195	uncharacterized LOC101496195

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20239_A_8668460	NC_021163.1	Ca_Kabuli_Chr04	8668460	GG	AA	AA	URR	101496195	uncharacterized LOC101496195
SNP_20240_A_8677398	NC_021163.1	Ca_Kabuli_Chr04	8677398	CC	AA	AA	URR	101495324	uncharacterized LOC101495324
SNP_20241_A_8677470	NC_021163.1	Ca_Kabuli_Chr04	8677470	TT	AA	AA	URR	101495324	uncharacterized LOC101495324
SNP_20242_A_8677513	NC_021163.1	Ca_Kabuli_Chr04	8677513	GG	AA	AA	URR	101495324	uncharacterized LOC101495324
SNP_20243_A_8683826	NC_021163.1	Ca_Kabuli_Chr04	8683826	TT	CC	CC	NON_SYNONYMOUS_CODING	101497058	putative disease resistance RPP13-like protein 2
SNP_20244_A_8685068	NC_021163.1	Ca_Kabuli_Chr04	8685068	GG	CC	CC	NON_SYNONYMOUS_CODING	101497058	putative disease resistance RPP13-like protein 2
SNP_20245_A_8686517	NC_021163.1	Ca_Kabuli_Chr04	8686517	TT	CC	CC	INTERGENIC		
SNP_20246_A_8687848	NC_021163.1	Ca_Kabuli_Chr04	8687848	CC	AA	AA	URR	101497058	putative disease resistance RPP13-like protein 2
SNP_20247_A_8688539	NC_021163.1	Ca_Kabuli_Chr04	8688539	GG	AA	AA	URR	101497058	putative disease resistance RPP13-like protein 2
SNP_20248_A_8688544	NC_021163.1	Ca_Kabuli_Chr04	8688544	AA	GG	GG	URR	101497058	putative disease resistance RPP13-like protein 2
SNP_20249_A_8688552	NC_021163.1	Ca_Kabuli_Chr04	8688552	CC	GG	GG	URR	101497058	putative disease resistance RPP13-like protein 2
SNP_20250_A_8688562	NC_021163.1	Ca_Kabuli_Chr04	8688562	CC	AA	AA	URR	101497058	putative disease resistance RPP13-like protein 2
SNP_20252_A_8689189	NC_021163.1	Ca_Kabuli_Chr04	8689189	TT	CC	CC	INTERGENIC		
SNP_20253_A_8689200	NC_021163.1	Ca_Kabuli_Chr04	8689200	GG	TT	TT	INTERGENIC		
SNP_20254_A_8689227	NC_021163.1	Ca_Kabuli_Chr04	8689227	GG	TT	TT	INTERGENIC		
SNP_20255_A_8689355	NC_021163.1	Ca_Kabuli_Chr04	8689355	CC	GG	GG	INTERGENIC		
SNP_20256_A_8689359	NC_021163.1	Ca_Kabuli_Chr04	8689359	TT	GG	GG	INTERGENIC		
SNP_20257_A_8689365	NC_021163.1	Ca_Kabuli_Chr04	8689365	TT	CC	CC	INTERGENIC		
SNP_20258_A_8689376	NC_021163.1	Ca_Kabuli_Chr04	8689376	CC	TT	TT	INTERGENIC		
SNP_20259_A_8690027	NC_021163.1	Ca_Kabuli_Chr04	8690027	AA	TT	TT	DRR	101497394	pullulanase 1, chloroplastic
SNP_20260_A_8690253	NC_021163.1	Ca_Kabuli_Chr04	8690253	AA	TT	TT	DRR	101497394	pullulanase 1, chloroplastic
SNP_20261_A_8690313	NC_021163.1	Ca_Kabuli_Chr04	8690313	AA	GG	GG	DRR	101497394	pullulanase 1, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20262_A_8690435	NC_021163.1	Ca_Kabuli_Chr04	8690435	AA	CC	CC	DRR	101497394	pullulanase 1, chloroplastic
SNP_20263_A_8690491	NC_021163.1	Ca_Kabuli_Chr04	8690491	AA	GG	GG	DRR	101497394	pullulanase 1, chloroplastic
SNP_20264_A_8697938	NC_021163.1	Ca_Kabuli_Chr04	8697938	AA	GG	GG	INTRON	101497394	pullulanase 1, chloroplastic
SNP_20266_A_8704226	NC_021163.1	Ca_Kabuli_Chr04	8704226	AA	CC	CC	URR	101497848	60S ribosomal protein L6, mitochondrial
SNP_20268_A_8704943	NC_021163.1	Ca_Kabuli_Chr04	8704943	GG	CC	CC	URR	101497848	60S ribosomal protein L6, mitochondrial
SNP_20269_A_8705007	NC_021163.1	Ca_Kabuli_Chr04	8705007	TT	CC	CC	URR	101497848	60S ribosomal protein L6, mitochondrial
SNP_20271_A_8708245	NC_021163.1	Ca_Kabuli_Chr04	8708245	GG	AA	AA	INTERGENIC		
SNP_20272_A_8708353	NC_021163.1	Ca_Kabuli_Chr04	8708353	TT	CC	CC	INTERGENIC		
SNP_20273_A_8708507	NC_021163.1	Ca_Kabuli_Chr04	8708507	TT	CC	CC	INTERGENIC		
SNP_20274_A_8709642	NC_021163.1	Ca_Kabuli_Chr04	8709642	GG	AA	AA	INTERGENIC		
SNP_20275_A_8709643	NC_021163.1	Ca_Kabuli_Chr04	8709643	AA	GG	GG	INTERGENIC		
SNP_20278_A_8711391	NC_021163.1	Ca_Kabuli_Chr04	8711391	GG	TT	TT	DRR	101495649	zinc finger protein ZAT5
SNP_20279_A_8711434	NC_021163.1	Ca_Kabuli_Chr04	8711434	TT	CC	CC	DRR	101495649	zinc finger protein ZAT5
SNP_20280_A_8713259	NC_021163.1	Ca_Kabuli_Chr04	8713259	AA	TT	TT	URR	101495649	zinc finger protein ZAT5
SNP_20281_A_8714360	NC_021163.1	Ca_Kabuli_Chr04	8714360	AA	GG	GG	URR	101495649	zinc finger protein ZAT5
SNP_20282_A_8714378	NC_021163.1	Ca_Kabuli_Chr04	8714378	TT	CC	CC	URR	101495649	zinc finger protein ZAT5
SNP_20283_A_8715351	NC_021163.1	Ca_Kabuli_Chr04	8715351	AA	CC	CC	INTERGENIC		
SNP_20284_A_8719050	NC_021163.1	Ca_Kabuli_Chr04	8719050	CC	TT	TT	INTRON	101498163	monocopper oxidase-like protein SKU5
SNP_20285_A_8720049	NC_021163.1	Ca_Kabuli_Chr04	8720049	CC	AA	AA	SYNONYMOUS_CODING	101498163	monocopper oxidase-like protein SKU5
SNP_20287_A_8723882	NC_021163.1	Ca_Kabuli_Chr04	8723882	AA	CC	CC	INTERGENIC		
SNP_20288_A_8723964	NC_021163.1	Ca_Kabuli_Chr04	8723964	TT	CC	CC	INTERGENIC		
SNP_20289_A_8725987	NC_021163.1	Ca_Kabuli_Chr04	8725987	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20290_A_8726006	NC_021163.1	Ca_Kabuli_Chr04	8726006	GG	AA	AA	INTERGENIC		
SNP_20291_A_8726023	NC_021163.1	Ca_Kabuli_Chr04	8726023	GG	AA	AA	INTERGENIC		
SNP_20292_A_8726314	NC_021163.1	Ca_Kabuli_Chr04	8726314	GG	AA	AA	INTERGENIC		
SNP_20293_A_8726319	NC_021163.1	Ca_Kabuli_Chr04	8726319	CC	TT	TT	INTERGENIC		
SNP_20294_A_8726342	NC_021163.1	Ca_Kabuli_Chr04	8726342	CC	TT	TT	INTERGENIC		
SNP_20295_A_8729476	NC_021163.1	Ca_Kabuli_Chr04	8729476	GG	TT	TT	INTERGENIC		
SNP_20296_A_8730431	NC_021163.1	Ca_Kabuli_Chr04	8730431	TT	CC	CC	INTERGENIC		
SNP_20298_A_8730650	NC_021163.1	Ca_Kabuli_Chr04	8730650	CC	TT	TT	INTERGENIC		
SNP_20301_A_8734140	NC_021163.1	Ca_Kabuli_Chr04	8734140	CC	TT	TT	URR	101495972	agamous-like MADS-box protein AGL80
SNP_20302_A_8734156	NC_021163.1	Ca_Kabuli_Chr04	8734156	AA	TT	TT	URR	101495972	agamous-like MADS-box protein AGL80
SNP_20303_A_8734425	NC_021163.1	Ca_Kabuli_Chr04	8734425	CC	TT	TT	DRR	101498490	ras-related protein RABC2a-like
SNP_20304_A_8736143	NC_021163.1	Ca_Kabuli_Chr04	8736143	CC	TT	TT	INTERGENIC		
SNP_20305_A_8737257	NC_021163.1	Ca_Kabuli_Chr04	8737257	TT	CC	CC	INTERGENIC		
SNP_20306_A_8737317	NC_021163.1	Ca_Kabuli_Chr04	8737317	GG	AA	AA	INTERGENIC		
SNP_20307_A_8737682	NC_021163.1	Ca_Kabuli_Chr04	8737682	CC	TT	TT	INTERGENIC		
SNP_20308_A_8737804	NC_021163.1	Ca_Kabuli_Chr04	8737804	TT	CC	CC	INTERGENIC		
SNP_20309_A_8744345	NC_021163.1	Ca_Kabuli_Chr04	8744345	GG	AA	AA	INTERGENIC		
SNP_20310_A_8744400	NC_021163.1	Ca_Kabuli_Chr04	8744400	CC	TT	TT	INTERGENIC		
SNP_20311_A_8746063	NC_021163.1	Ca_Kabuli_Chr04	8746063	AA	GG	GG	INTERGENIC		
SNP_20312_A_8746519	NC_021163.1	Ca_Kabuli_Chr04	8746519	AA	GG	GG	INTERGENIC		
SNP_20313_A_8746671	NC_021163.1	Ca_Kabuli_Chr04	8746671	CC	TT	TT	INTERGENIC		
SNP_20314_A_8747017	NC_021163.1	Ca_Kabuli_Chr04	8747017	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20315_A_8747021	NC_021163.1	Ca_Kabuli_Chr04	8747021	GG	AA	AA	INTERGENIC		
SNP_20316_A_8747126	NC_021163.1	Ca_Kabuli_Chr04	8747126	CC	TT	TT	INTERGENIC		
SNP_20317_A_8748103	NC_021163.1	Ca_Kabuli_Chr04	8748103	AA	CC	CC	INTERGENIC		
SNP_20319_A_8749717	NC_021163.1	Ca_Kabuli_Chr04	8749717	GG	AA	AA	INTERGENIC		
SNP_20320_A_8750627	NC_021163.1	Ca_Kabuli_Chr04	8750627	AA	GG	GG	DRR	101498838	NAC domain-containing protein 7
SNP_20321_A_8750631	NC_021163.1	Ca_Kabuli_Chr04	8750631	TT	CC	CC	DRR	101498838	NAC domain-containing protein 7
SNP_20323_A_8753611	NC_021163.1	Ca_Kabuli_Chr04	8753611	CC	TT	TT	INTRON	101498838	NAC domain-containing protein 7
SNP_20325_A_8758522	NC_021163.1	Ca_Kabuli_Chr04	8758522	CC	TT	TT	INTERGENIC		
SNP_20326_A_8758573	NC_021163.1	Ca_Kabuli_Chr04	8758573	GG	AA	AA	INTERGENIC		
SNP_20327_A_8758630	NC_021163.1	Ca_Kabuli_Chr04	8758630	AA	GG	GG	INTERGENIC		
SNP_20328_A_8759297	NC_021163.1	Ca_Kabuli_Chr04	8759297	TT	CC	CC	INTERGENIC		
SNP_20329_A_8759312	NC_021163.1	Ca_Kabuli_Chr04	8759312	TT	CC	CC	INTERGENIC		
SNP_20330_A_8759514	NC_021163.1	Ca_Kabuli_Chr04	8759514	AA	GG	GG	INTERGENIC		
SNP_20331_A_8761972	NC_021163.1	Ca_Kabuli_Chr04	8761972	AA	GG	GG	INTERGENIC		
SNP_20332_A_8767295	NC_021163.1	Ca_Kabuli_Chr04	8767295	GG	AA	AA	INTERGENIC		
SNP_20333_A_8767490	NC_021163.1	Ca_Kabuli_Chr04	8767490	TT	GG	GG	INTERGENIC		
SNP_20334_A_8767509	NC_021163.1	Ca_Kabuli_Chr04	8767509	GG	AA	AA	INTERGENIC		
SNP_20335_A_8767539	NC_021163.1	Ca_Kabuli_Chr04	8767539	TT	AA	AA	INTERGENIC		
SNP_20336_A_8767559	NC_021163.1	Ca_Kabuli_Chr04	8767559	GG	AA	AA	INTERGENIC		
SNP_20337_A_8769849	NC_021163.1	Ca_Kabuli_Chr04	8769849	AA	GG	GG	START_GAINED	101499363	NAC domain-containing protein 53
SNP_20338_A_8769862	NC_021163.1	Ca_Kabuli_Chr04	8769862	CC	TT	TT	URR	101499363	NAC domain-containing protein 53
SNP_20339_A_8769881	NC_021163.1	Ca_Kabuli_Chr04	8769881	AA	TT	TT	URR	101499363	NAC domain-containing protein 53

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20340_A_8773892	NC_021163.1	Ca_Kabuli_Chr04	8773892	AA	GG	GG	URR	101499363	NAC domain-containing protein 53
SNP_20341_A_8774189	NC_021163.1	Ca_Kabuli_Chr04	8774189	GG	AA	AA	URR	101499363	NAC domain-containing protein 53
SNP_20342_A_8774196	NC_021163.1	Ca_Kabuli_Chr04	8774196	AA	TT	TT	URR	101499363	NAC domain-containing protein 53
SNP_20343_A_8774248	NC_021163.1	Ca_Kabuli_Chr04	8774248	TT	CC	CC	URR	101499363	NAC domain-containing protein 53
SNP_20344_A_8774249	NC_021163.1	Ca_Kabuli_Chr04	8774249	CC	TT	TT	URR	101499363	NAC domain-containing protein 53
SNP_20345_A_8774316	NC_021163.1	Ca_Kabuli_Chr04	8774316	GG	AA	AA	URR	101499363	NAC domain-containing protein 53
SNP_20346_A_8774437	NC_021163.1	Ca_Kabuli_Chr04	8774437	GG	AA	AA	URR	101499363	NAC domain-containing protein 53
SNP_20347_A_8774891	NC_021163.1	Ca_Kabuli_Chr04	8774891	CC	AA	AA	DRR	101499870	malate dehydrogenase [NADP], chloroplastic
SNP_20348_A_8775158	NC_021163.1	Ca_Kabuli_Chr04	8775158	GG	CC	CC	DRR	101499870	malate dehydrogenase [NADP], chloroplastic
SNP_20349_A_8782231	NC_021163.1	Ca_Kabuli_Chr04	8782231	GG	CC	CC	INTERGENIC		
SNP_20350_A_8783209	NC_021163.1	Ca_Kabuli_Chr04	8783209	GG	AA	AA	INTERGENIC		
SNP_20351_A_8784188	NC_021163.1	Ca_Kabuli_Chr04	8784188	AA	CC	CC	INTERGENIC		
SNP_20352_A_8792426	NC_021163.1	Ca_Kabuli_Chr04	8792426	TT	CC	CC	DRR	101501276	peroxidase 41-like
SNP_20353_A_8800393	NC_021163.1	Ca_Kabuli_Chr04	8800393	TT	CC	CC	DRR	101496309	putative glycine-rich cell wall structural protein 1
SNP_20354_A_8800413	NC_021163.1	Ca_Kabuli_Chr04	8800413	CC	TT	TT	DRR	101496309	putative glycine-rich cell wall structural protein 1
SNP_20355_A_8800441	NC_021163.1	Ca_Kabuli_Chr04	8800441	AA	GG	GG	DRR	101496309	putative glycine-rich cell wall structural protein 1
SNP_20356_A_8800484	NC_021163.1	Ca_Kabuli_Chr04	8800484	TT	AA	AA	DRR	101496309	putative glycine-rich cell wall structural protein 1
SNP_20357_A_8803083	NC_021163.1	Ca_Kabuli_Chr04	8803083	GG	AA	AA	DRR	101501591	RNA-binding protein Nova-2
SNP_20358_A_8812548	NC_021163.1	Ca_Kabuli_Chr04	8812548	AA	CC	CC	INTERGENIC		
SNP_20359_A_8816808	NC_021163.1	Ca_Kabuli_Chr04	8816808	AA	GG	GG	INTRON	101496639	uncharacterized LOC101496639
SNP_20360_A_8817318	NC_021163.1	Ca_Kabuli_Chr04	8817318	TT	CC	CC	INTRON	101496639	uncharacterized LOC101496639
SNP_20361_A_8817327	NC_021163.1	Ca_Kabuli_Chr04	8817327	CC	GG	GG	INTRON	101496639	uncharacterized LOC101496639

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20362_A_8817607	NC_021163.1	Ca_Kabuli_Chr04	8817607	AA	GG	GG	INTRON	101496639	uncharacterized LOC101496639
SNP_20363_A_8818268	NC_021163.1	Ca_Kabuli_Chr04	8818268	TT	CC	CC	INTRON	101496639	uncharacterized LOC101496639
SNP_20364_A_8826812	NC_021163.1	Ca_Kabuli_Chr04	8826812	AA	CC	CC	URR	101502121	histone H2B.3-like
SNP_20365_A_8827954	NC_021163.1	Ca_Kabuli_Chr04	8827954	CC	AA	AA	URR	101502121	histone H2B.3-like
SNP_20366_A_8829018	NC_021163.1	Ca_Kabuli_Chr04	8829018	CC	GG	GG	INTERGENIC		
SNP_20367_A_8829255	NC_021163.1	Ca_Kabuli_Chr04	8829255	AA	GG	GG	INTERGENIC		
SNP_20368_A_8829280	NC_021163.1	Ca_Kabuli_Chr04	8829280	TT	CC	CC	INTERGENIC		
SNP_20369_A_8829585	NC_021163.1	Ca_Kabuli_Chr04	8829585	TT	CC	CC	INTERGENIC		
SNP_20370_A_8831763	NC_021163.1	Ca_Kabuli_Chr04	8831763	CC	TT	TT	INTERGENIC		
SNP_20371_A_8831811	NC_021163.1	Ca_Kabuli_Chr04	8831811	CC	AA	AA	INTERGENIC		
SNP_20372_A_8831829	NC_021163.1	Ca_Kabuli_Chr04	8831829	CC	TT	TT	INTERGENIC		
SNP_20373_A_8834014	NC_021163.1	Ca_Kabuli_Chr04	8834014	CC	TT	TT	INTERGENIC		
SNP_20374_A_8834268	NC_021163.1	Ca_Kabuli_Chr04	8834268	TT	CC	CC	INTERGENIC		
SNP_20375_A_8834273	NC_021163.1	Ca_Kabuli_Chr04	8834273	CC	TT	TT	INTERGENIC		
SNP_20376_A_8834283	NC_021163.1	Ca_Kabuli_Chr04	8834283	GG	AA	AA	INTERGENIC		
SNP_20377_A_8834290	NC_021163.1	Ca_Kabuli_Chr04	8834290	TT	CC	CC	INTERGENIC		
SNP_20378_A_8834322	NC_021163.1	Ca_Kabuli_Chr04	8834322	TT	CC	CC	INTERGENIC		
SNP_20379_A_8834346	NC_021163.1	Ca_Kabuli_Chr04	8834346	GG	TT	TT	INTERGENIC		
SNP_20381_A_8836445	NC_021163.1	Ca_Kabuli_Chr04	8836445	CC	TT	TT	INTERGENIC		
SNP_20382_A_8836484	NC_021163.1	Ca_Kabuli_Chr04	8836484	CC	TT	TT	INTERGENIC		
SNP_20383_A_8836491	NC_021163.1	Ca_Kabuli_Chr04	8836491	GG	AA	AA	INTERGENIC		
SNP_20384_A_8836523	NC_021163.1	Ca_Kabuli_Chr04	8836523	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20385_A_8836577	NC_021163.1	Ca_Kabuli_Chr04	8836577	TT	GG	GG	INTERGENIC		
SNP_20387_A_8839710	NC_021163.1	Ca_Kabuli_Chr04	8839710	GG	AA	AA	INTERGENIC		
SNP_20388_A_8840722	NC_021163.1	Ca_Kabuli_Chr04	8840722	AA	GG	GG	INTERGENIC		
SNP_20389_A_8841149	NC_021163.1	Ca_Kabuli_Chr04	8841149	TT	GG	GG	INTERGENIC		
SNP_20390_A_8841236	NC_021163.1	Ca_Kabuli_Chr04	8841236	TT	CC	CC	INTERGENIC		
SNP_20391_A_8842832	NC_021163.1	Ca_Kabuli_Chr04	8842832	AA	GG	GG	INTERGENIC		
SNP_20392_A_8850998	NC_021163.1	Ca_Kabuli_Chr04	8850998	TT	CC	CC	DRR	101497287	desmoplakin-like
SNP_20394_A_8858728	NC_021163.1	Ca_Kabuli_Chr04	8858728	AA	TT	TT	INTERGENIC		
SNP_20395_A_8859791	NC_021163.1	Ca_Kabuli_Chr04	8859791	AA	GG	GG	URR	101502441	leghemoglobin-like
SNP_20396_A_8860796	NC_021163.1	Ca_Kabuli_Chr04	8860796	GG	AA	AA	URR	101502441	leghemoglobin-like
SNP_20397_A_8861076	NC_021163.1	Ca_Kabuli_Chr04	8861076	CC	TT	TT	URR	101502441	leghemoglobin-like
SNP_20398_A_8861206	NC_021163.1	Ca_Kabuli_Chr04	8861206	GG	AA	AA	URR	101502441	leghemoglobin-like
SNP_20400_A_8865682	NC_021163.1	Ca_Kabuli_Chr04	8865682	CC	AA	AA	URR	101502744	leghemoglobin-like
SNP_20401_A_8866759	NC_021163.1	Ca_Kabuli_Chr04	8866759	TT	GG	GG	INTRON	101503056	probable tRNA N6-adenosine threonylcarbamoyltransferase
SNP_20403_A_8871613	NC_021163.1	Ca_Kabuli_Chr04	8871613	AA	GG	GG	INTERGENIC		
SNP_20404_A_8871887	NC_021163.1	Ca_Kabuli_Chr04	8871887	GG	CC	CC	DRR	101503611	coatamer subunit alpha-1-like
SNP_20405_A_8872632	NC_021163.1	Ca_Kabuli_Chr04	8872632	GG	CC	CC	DRR	101503611	coatamer subunit alpha-1-like
SNP_20406_A_8878000	NC_021163.1	Ca_Kabuli_Chr04	8878000	AA	GG	GG	URR	101503611	coatamer subunit alpha-1-like
SNP_20407_A_8878086	NC_021163.1	Ca_Kabuli_Chr04	8878086	GG	TT	TT	URR	101503611	coatamer subunit alpha-1-like
SNP_20408_A_8879106	NC_021163.1	Ca_Kabuli_Chr04	8879106	CC	GG	GG	URR	101503611	coatamer subunit alpha-1-like
SNP_20409_A_8879110	NC_021163.1	Ca_Kabuli_Chr04	8879110	TT	GG	GG	URR	101503611	coatamer subunit alpha-1-like
SNP_20410_A_8879115	NC_021163.1	Ca_Kabuli_Chr04	8879115	AA	TT	TT	URR	101503611	coatamer subunit alpha-1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20411_A_8879130	NC_021163.1	Ca_Kabuli_Chr04	8879130	TT	AA	AA	URR	101503611	coatomer subunit alpha-1-like
SNP_20412_A_8880538	NC_021163.1	Ca_Kabuli_Chr04	8880538	CC	TT	TT	INTERGENIC		
SNP_20413_A_8886928	NC_021163.1	Ca_Kabuli_Chr04	8886928	AA	GG	GG	INTERGENIC		
SNP_20414_A_8889750	NC_021163.1	Ca_Kabuli_Chr04	8889750	TT	CC	CC	INTERGENIC		
SNP_20415_A_8889813	NC_021163.1	Ca_Kabuli_Chr04	8889813	GG	AA	AA	INTERGENIC		
SNP_20416_A_8890799	NC_021163.1	Ca_Kabuli_Chr04	8890799	AA	GG	GG	INTERGENIC		
SNP_20418_A_8894031	NC_021163.1	Ca_Kabuli_Chr04	8894031	TT	CC	CC	URR	101503936	cyclin-dependent protein kinase inhibitor SMR2
SNP_20420_A_8896451	NC_021163.1	Ca_Kabuli_Chr04	8896451	GG	TT	TT	INTERGENIC		
SNP_20421_A_8896589	NC_021163.1	Ca_Kabuli_Chr04	8896589	GG	CC	CC	INTERGENIC		
SNP_20422_A_8897848	NC_021163.1	Ca_Kabuli_Chr04	8897848	TT	GG	GG	INTERGENIC		
SNP_20423_A_8900478	NC_021163.1	Ca_Kabuli_Chr04	8900478	TT	AA	AA	INTERGENIC		
SNP_20424_A_8900837	NC_021163.1	Ca_Kabuli_Chr04	8900837	CC	GG	GG	INTERGENIC		
SNP_20425_A_8901784	NC_021163.1	Ca_Kabuli_Chr04	8901784	CC	AA	AA	INTERGENIC		
SNP_20426_A_8901796	NC_021163.1	Ca_Kabuli_Chr04	8901796	TT	AA	AA	INTERGENIC		
SNP_20427_A_8903368	NC_021163.1	Ca_Kabuli_Chr04	8903368	GG	AA	AA	INTERGENIC		
SNP_20428_A_8903412	NC_021163.1	Ca_Kabuli_Chr04	8903412	TT	CC	CC	INTERGENIC		
SNP_20429_A_8903430	NC_021163.1	Ca_Kabuli_Chr04	8903430	TT	AA	AA	INTERGENIC		
SNP_20430_A_8903517	NC_021163.1	Ca_Kabuli_Chr04	8903517	AA	TT	TT	INTERGENIC		
SNP_20431_A_8903733	NC_021163.1	Ca_Kabuli_Chr04	8903733	GG	AA	AA	INTERGENIC		
SNP_20432_A_8903759	NC_021163.1	Ca_Kabuli_Chr04	8903759	TT	CC	CC	INTERGENIC		
SNP_20434_A_8903817	NC_021163.1	Ca_Kabuli_Chr04	8903817	CC	AA	AA	INTERGENIC		
SNP_20436_A_9026307	NC_021163.1	Ca_Kabuli_Chr04	9026307	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20438_A_9041805	NC_021163.1	Ca_Kabuli_Chr04	9041805	CC	GG	GG	INTRON	101508340	geraniol 8-hydroxylase-like
SNP_20439_A_9060627	NC_021163.1	Ca_Kabuli_Chr04	9060627	AA	CC	CC	DRR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20440_A_9060674	NC_021163.1	Ca_Kabuli_Chr04	9060674	TT	CC	CC	DRR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20441_A_9066176	NC_021163.1	Ca_Kabuli_Chr04	9066176	TT	AA	AA	URR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20442_A_9066214	NC_021163.1	Ca_Kabuli_Chr04	9066214	GG	TT	TT	URR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20443_A_9066255	NC_021163.1	Ca_Kabuli_Chr04	9066255	CC	TT	TT	URR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20445_A_9066488	NC_021163.1	Ca_Kabuli_Chr04	9066488	TT	CC	CC	URR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20446_A_9066622	NC_021163.1	Ca_Kabuli_Chr04	9066622	GG	AA	AA	URR	101508654	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_20448_A_9083510	NC_021163.1	Ca_Kabuli_Chr04	9083510	AA	GG	GG	INTERGENIC		
SNP_20449_A_9083720	NC_021163.1	Ca_Kabuli_Chr04	9083720	CC	TT	TT	INTERGENIC		
SNP_20450_A_9126907	NC_021163.1	Ca_Kabuli_Chr04	9126907	TT	AA	AA	DRR	101498931	uncharacterized LOC101498931
SNP_20451_A_9147377	NC_021163.1	Ca_Kabuli_Chr04	9147377	TT	CC	CC	URR	101510792	uncharacterized LOC101510792
SNP_20452_A_9147380	NC_021163.1	Ca_Kabuli_Chr04	9147380	AA	GG	GG	URR	101510792	uncharacterized LOC101510792
SNP_20453_A_9172944	NC_021163.1	Ca_Kabuli_Chr04	9172944	CC	TT	TT	INTERGENIC		
SNP_20454_A_9179144	NC_021163.1	Ca_Kabuli_Chr04	9179144	GG	TT	TT	URR	101499255	Unknown function
SNP_20455_A_9214048	NC_021163.1	Ca_Kabuli_Chr04	9214048	CC	TT	TT	INTERGENIC		
SNP_20456_A_9233342	NC_021163.1	Ca_Kabuli_Chr04	9233342	TT	AA	AA	INTERGENIC		
SNP_20457_A_9233352	NC_021163.1	Ca_Kabuli_Chr04	9233352	TT	AA	AA	INTERGENIC		
SNP_20458_A_9233438	NC_021163.1	Ca_Kabuli_Chr04	9233438	AA	GG	GG	INTERGENIC		
SNP_20459_A_9233485	NC_021163.1	Ca_Kabuli_Chr04	9233485	GG	AA	AA	INTERGENIC		
SNP_20460_A_9233490	NC_021163.1	Ca_Kabuli_Chr04	9233490	TT	GG	GG	INTERGENIC		
SNP_20461_A_9312774	NC_021163.1	Ca_Kabuli_Chr04	9312774	GG	TT	TT	URR	101515424	host cell factor

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20462_A_9348429	NC_021163.1	Ca_Kabuli_Chr04	9348429	AA	CC	CC	INTERGENIC		
SNP_20464_A_9372469	NC_021163.1	Ca_Kabuli_Chr04	9372469	GG	AA	AA	INTERGENIC		
SNP_20465_A_9387809	NC_021163.1	Ca_Kabuli_Chr04	9387809	GG	AA	AA	INTERGENIC		
SNP_20466_A_9387971	NC_021163.1	Ca_Kabuli_Chr04	9387971	TT	CC	CC	INTERGENIC		
SNP_20467_A_9387977	NC_021163.1	Ca_Kabuli_Chr04	9387977	AA	CC	CC	INTERGENIC		
SNP_20469_A_9388180	NC_021163.1	Ca_Kabuli_Chr04	9388180	TT	AA	AA	INTERGENIC		
SNP_20470_A_9388185	NC_021163.1	Ca_Kabuli_Chr04	9388185	AA	GG	GG	INTERGENIC		
SNP_20471_A_9388271	NC_021163.1	Ca_Kabuli_Chr04	9388271	GG	TT	TT	INTERGENIC		
SNP_20472_A_9388273	NC_021163.1	Ca_Kabuli_Chr04	9388273	TT	CC	CC	INTERGENIC		
SNP_20474_A_9501420	NC_021163.1	Ca_Kabuli_Chr04	9501420	AA	TT	TT	URR	101492638	receptor-like protein kinase At3g21340
SNP_20475_A_9516219	NC_021163.1	Ca_Kabuli_Chr04	9516219	TT	AA	AA	URR	101492970	uncharacterized LOC101492970
SNP_20476_A_9516222	NC_021163.1	Ca_Kabuli_Chr04	9516222	AA	GG	GG	URR	101492970	uncharacterized LOC101492970
SNP_20477_A_9547678	NC_021163.1	Ca_Kabuli_Chr04	9547678	CC	TT	TT	INTERGENIC		
SNP_20479_A_9555442	NC_021163.1	Ca_Kabuli_Chr04	9555442	CC	TT	TT	INTERGENIC		
SNP_20481_A_9599355	NC_021163.1	Ca_Kabuli_Chr04	9599355	GG	AA	AA	INTERGENIC		
SNP_20482_A_9627880	NC_021163.1	Ca_Kabuli_Chr04	9627880	AA	CC	CC	INTERGENIC		
SNP_20483_A_9627963	NC_021163.1	Ca_Kabuli_Chr04	9627963	CC	TT	TT	INTERGENIC		
SNP_20484_A_9628009	NC_021163.1	Ca_Kabuli_Chr04	9628009	CC	AA	AA	INTERGENIC		
SNP_20485_A_9628012	NC_021163.1	Ca_Kabuli_Chr04	9628012	GG	CC	CC	INTERGENIC		
SNP_20486_A_9628027	NC_021163.1	Ca_Kabuli_Chr04	9628027	GG	AA	AA	INTERGENIC		
SNP_20487_A_9628068	NC_021163.1	Ca_Kabuli_Chr04	9628068	AA	GG	GG	INTERGENIC		
SNP_20488_A_9628094	NC_021163.1	Ca_Kabuli_Chr04	9628094	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_20489_A_9628213	NC_021163.1	Ca_Kabuli_Chr04	9628213	AA	TT	TT	INTERGENIC			
SNP_20490_A_9628234	NC_021163.1	Ca_Kabuli_Chr04	9628234	GG	AA	AA	INTERGENIC			
SNP_20491_A_9628241	NC_021163.1	Ca_Kabuli_Chr04	9628241	AA	GG	GG	INTERGENIC			
SNP_20492_A_9628456	NC_021163.1	Ca_Kabuli_Chr04	9628456	AA	GG	GG	INTERGENIC			
SNP_20493_A_9628486	NC_021163.1	Ca_Kabuli_Chr04	9628486	AA	GG	GG	INTERGENIC			
SNP_20494_A_9628622	NC_021163.1	Ca_Kabuli_Chr04	9628622	GG	AA	AA	INTERGENIC			
SNP_20495_A_9628659	NC_021163.1	Ca_Kabuli_Chr04	9628659	AA	GG	GG	INTERGENIC			
SNP_20496_A_9628664	NC_021163.1	Ca_Kabuli_Chr04	9628664	TT	CC	CC	INTERGENIC			
SNP_20497_A_9628675	NC_021163.1	Ca_Kabuli_Chr04	9628675	TT	CC	CC	INTERGENIC			
SNP_20498_A_9628818	NC_021163.1	Ca_Kabuli_Chr04	9628818	CC	TT	TT	INTERGENIC			
SNP_20499_A_9628831	NC_021163.1	Ca_Kabuli_Chr04	9628831	AA	TT	TT	INTERGENIC			
SNP_20500_A_9628871	NC_021163.1	Ca_Kabuli_Chr04	9628871	TT	GG	GG	INTERGENIC			
SNP_20501_A_9628972	NC_021163.1	Ca_Kabuli_Chr04	9628972	CC	AA	AA	INTERGENIC			
SNP_20502_A_9629128	NC_021163.1	Ca_Kabuli_Chr04	9629128	GG	AA	AA	INTERGENIC			
SNP_20503_A_9629129	NC_021163.1	Ca_Kabuli_Chr04	9629129	AA	GG	GG	INTERGENIC			
SNP_20504_A_9629167	NC_021163.1	Ca_Kabuli_Chr04	9629167	TT	GG	GG	INTERGENIC			
SNP_20505_A_9629168	NC_021163.1	Ca_Kabuli_Chr04	9629168	GG	TT	TT	INTERGENIC			
SNP_20506_A_9629173	NC_021163.1	Ca_Kabuli_Chr04	9629173	GG	AA	AA	INTERGENIC			
SNP_20507_A_9629181	NC_021163.1	Ca_Kabuli_Chr04	9629181	GG	TT	TT	INTERGENIC			
SNP_20508_A_9629417	NC_021163.1	Ca_Kabuli_Chr04	9629417	TT	GG	GG	INTERGENIC			
SNP_20509_A_9629477	NC_021163.1	Ca_Kabuli_Chr04	9629477	CC	TT	TT	INTERGENIC			
SNP_20510_A_9629502	NC_021163.1	Ca_Kabuli_Chr04	9629502	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_20511_A_9629549	NC_021163.1	Ca_Kabuli_Chr04	9629549	CC	TT	TT	INTERGENIC			
SNP_20512_A_9629683	NC_021163.1	Ca_Kabuli_Chr04	9629683	CC	AA	AA	INTERGENIC			
SNP_20513_A_9629691	NC_021163.1	Ca_Kabuli_Chr04	9629691	TT	CC	CC	INTERGENIC			
SNP_20514_A_9629749	NC_021163.1	Ca_Kabuli_Chr04	9629749	AA	GG	GG	INTERGENIC			
SNP_20515_A_9629819	NC_021163.1	Ca_Kabuli_Chr04	9629819	CC	TT	TT	INTERGENIC			
SNP_20516_A_9629825	NC_021163.1	Ca_Kabuli_Chr04	9629825	CC	GG	GG	INTERGENIC			
SNP_20517_A_9629841	NC_021163.1	Ca_Kabuli_Chr04	9629841	TT	CC	CC	INTERGENIC			
SNP_20518_A_9629855	NC_021163.1	Ca_Kabuli_Chr04	9629855	AA	TT	TT	INTERGENIC			
SNP_20519_A_9629887	NC_021163.1	Ca_Kabuli_Chr04	9629887	GG	TT	TT	INTERGENIC			
SNP_20520_A_9629924	NC_021163.1	Ca_Kabuli_Chr04	9629924	AA	GG	GG	INTERGENIC			
SNP_20521_A_9629940	NC_021163.1	Ca_Kabuli_Chr04	9629940	CC	TT	TT	INTERGENIC			
SNP_20522_A_9629971	NC_021163.1	Ca_Kabuli_Chr04	9629971	GG	AA	AA	INTERGENIC			
SNP_20523_A_9629978	NC_021163.1	Ca_Kabuli_Chr04	9629978	TT	GG	GG	INTERGENIC			
SNP_20524_A_9629995	NC_021163.1	Ca_Kabuli_Chr04	9629995	AA	CC	CC	INTERGENIC			
SNP_20525_A_9630050	NC_021163.1	Ca_Kabuli_Chr04	9630050	AA	TT	TT	INTERGENIC			
SNP_20526_A_9630065	NC_021163.1	Ca_Kabuli_Chr04	9630065	CC	TT	TT	INTERGENIC			
SNP_20527_A_9630119	NC_021163.1	Ca_Kabuli_Chr04	9630119	AA	GG	GG	INTERGENIC			
SNP_20528_A_9630161	NC_021163.1	Ca_Kabuli_Chr04	9630161	GG	AA	AA	INTERGENIC			
SNP_20529_A_9630193	NC_021163.1	Ca_Kabuli_Chr04	9630193	CC	GG	GG	INTERGENIC			
SNP_20530_A_9630210	NC_021163.1	Ca_Kabuli_Chr04	9630210	GG	TT	TT	INTERGENIC			
SNP_20531_A_9630214	NC_021163.1	Ca_Kabuli_Chr04	9630214	AA	GG	GG	INTERGENIC			
SNP_20532_A_9630268	NC_021163.1	Ca_Kabuli_Chr04	9630268	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_20533_A_9630282	NC_021163.1	Ca_Kabuli_Chr04	9630282	TT	CC	CC	INTERGENIC			
SNP_20535_A_9630356	NC_021163.1	Ca_Kabuli_Chr04	9630356	GG	TT	TT	INTERGENIC			
SNP_20536_A_9630406	NC_021163.1	Ca_Kabuli_Chr04	9630406	TT	AA	AA	INTERGENIC			
SNP_20537_A_9630414	NC_021163.1	Ca_Kabuli_Chr04	9630414	CC	GG	GG	INTERGENIC			
SNP_20538_A_9630415	NC_021163.1	Ca_Kabuli_Chr04	9630415	AA	TT	TT	INTERGENIC			
SNP_20539_A_9630425	NC_021163.1	Ca_Kabuli_Chr04	9630425	AA	GG	GG	INTERGENIC			
SNP_20540_A_9630466	NC_021163.1	Ca_Kabuli_Chr04	9630466	GG	TT	TT	INTERGENIC			
SNP_20541_A_9630526	NC_021163.1	Ca_Kabuli_Chr04	9630526	AA	GG	GG	INTERGENIC			
SNP_20542_A_9630530	NC_021163.1	Ca_Kabuli_Chr04	9630530	GG	TT	TT	INTERGENIC			
SNP_20543_A_9630563	NC_021163.1	Ca_Kabuli_Chr04	9630563	CC	TT	TT	INTERGENIC			
SNP_20544_A_9630587	NC_021163.1	Ca_Kabuli_Chr04	9630587	TT	GG	GG	INTERGENIC			
SNP_20545_A_9630598	NC_021163.1	Ca_Kabuli_Chr04	9630598	GG	AA	AA	INTERGENIC			
SNP_20546_A_9630602	NC_021163.1	Ca_Kabuli_Chr04	9630602	AA	GG	GG	INTERGENIC			
SNP_20547_A_9630604	NC_021163.1	Ca_Kabuli_Chr04	9630604	TT	GG	GG	INTERGENIC			
SNP_20548_A_9630739	NC_021163.1	Ca_Kabuli_Chr04	9630739	TT	CC	CC	INTERGENIC			
SNP_20549_A_9630780	NC_021163.1	Ca_Kabuli_Chr04	9630780	GG	TT	TT	INTERGENIC			
SNP_20550_A_9630902	NC_021163.1	Ca_Kabuli_Chr04	9630902	AA	TT	TT	INTERGENIC			
SNP_20552_A_9632840	NC_021163.1	Ca_Kabuli_Chr04	9632840	TT	AA	AA	INTERGENIC			
SNP_20553_A_9632849	NC_021163.1	Ca_Kabuli_Chr04	9632849	AA	GG	GG	INTERGENIC			
SNP_20554_A_9632892	NC_021163.1	Ca_Kabuli_Chr04	9632892	AA	CC	CC	INTERGENIC			
SNP_20555_A_9632908	NC_021163.1	Ca_Kabuli_Chr04	9632908	TT	AA	AA	INTERGENIC			
SNP_20556_A_9632955	NC_021163.1	Ca_Kabuli_Chr04	9632955	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20557_A_9632986	NC_021163.1	Ca_Kabuli_Chr04	9632986	AA	GG	GG	INTERGENIC		
SNP_20558_A_9632990	NC_021163.1	Ca_Kabuli_Chr04	9632990	GG	TT	TT	INTERGENIC		
SNP_20559_A_9633006	NC_021163.1	Ca_Kabuli_Chr04	9633006	CC	GG	GG	INTERGENIC		
SNP_20560_A_9633046	NC_021163.1	Ca_Kabuli_Chr04	9633046	GG	AA	AA	INTERGENIC		
SNP_20561_A_9633055	NC_021163.1	Ca_Kabuli_Chr04	9633055	AA	GG	GG	INTERGENIC		
SNP_20562_A_9634136	NC_021163.1	Ca_Kabuli_Chr04	9634136	TT	GG	GG	INTERGENIC		
SNP_20563_A_9634138	NC_021163.1	Ca_Kabuli_Chr04	9634138	TT	GG	GG	INTERGENIC		
SNP_20564_A_9634142	NC_021163.1	Ca_Kabuli_Chr04	9634142	GG	AA	AA	INTERGENIC		
SNP_20565_A_9638493	NC_021163.1	Ca_Kabuli_Chr04	9638493	TT	AA	AA	INTERGENIC		
SNP_20567_A_9658306	NC_021163.1	Ca_Kabuli_Chr04	9658306	TT	AA	AA	DRR	101496524	Unknown function
SNP_20569_A_9685877	NC_021163.1	Ca_Kabuli_Chr04	9685877	AA	TT	TT	INTERGENIC		
SNP_20570_A_9726237	NC_021163.1	Ca_Kabuli_Chr04	9726237	AA	CC	CC	INTERGENIC		
SNP_20571_A_9726356	NC_021163.1	Ca_Kabuli_Chr04	9726356	CC	TT	TT	INTERGENIC		
SNP_20572_A_9726364	NC_021163.1	Ca_Kabuli_Chr04	9726364	AA	GG	GG	INTERGENIC		
SNP_20573_A_9726390	NC_021163.1	Ca_Kabuli_Chr04	9726390	TT	CC	CC	INTERGENIC		
SNP_20574_A_9726430	NC_021163.1	Ca_Kabuli_Chr04	9726430	AA	TT	TT	INTERGENIC		
SNP_20575_A_9726681	NC_021163.1	Ca_Kabuli_Chr04	9726681	CC	TT	TT	INTERGENIC		
SNP_20576_A_9726719	NC_021163.1	Ca_Kabuli_Chr04	9726719	AA	GG	GG	INTERGENIC		
SNP_20577_A_9727214	NC_021163.1	Ca_Kabuli_Chr04	9727214	TT	CC	CC	INTERGENIC		
SNP_20578_A_9727350	NC_021163.1	Ca_Kabuli_Chr04	9727350	AA	GG	GG	INTERGENIC		
SNP_20584_A_9933697	NC_021163.1	Ca_Kabuli_Chr04	9933697	AA	CC	CC	INTERGENIC		
SNP_20585_A_10031364	NC_021163.1	Ca_Kabuli_Chr04	10031364	GG	TT	TT	URR	101509509	probable lysine-specific demethylase ELF6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20588_A_10158348	NC_021163.1	Ca_Kabuli_Chr04	10158348	CC	TT	TT	INTERGENIC		
SNP_20590_A_10183619	NC_021163.1	Ca_Kabuli_Chr04	10183619	TT	CC	CC	URR	101514569	Unknown function
SNP_20592_A_10240534	NC_021163.1	Ca_Kabuli_Chr04	10240534	GG	AA	AA	INTERGENIC		
SNP_20593_A_10253310	NC_021163.1	Ca_Kabuli_Chr04	10253310	TT	GG	GG	INTERGENIC		
SNP_20594_A_10253324	NC_021163.1	Ca_Kabuli_Chr04	10253324	CC	GG	GG	INTERGENIC		
SNP_20595_A_10253370	NC_021163.1	Ca_Kabuli_Chr04	10253370	CC	AA	AA	INTERGENIC		
SNP_20596_A_10260422	NC_021163.1	Ca_Kabuli_Chr04	10260422	AA	CC	CC	INTERGENIC		
SNP_20597_A_10278667	NC_021163.1	Ca_Kabuli_Chr04	10278667	CC	TT	TT	INTERGENIC		
SNP_20598_A_10319935	NC_021163.1	Ca_Kabuli_Chr04	10319935	AA	GG	GG	INTERGENIC		
SNP_20599_A_10374933	NC_021163.1	Ca_Kabuli_Chr04	10374933	TT	CC	CC	INTERGENIC		
SNP_20601_A_10571898	NC_021163.1	Ca_Kabuli_Chr04	10571898	GG	AA	AA	INTERGENIC		
SNP_20604_A_10757629	NC_021163.1	Ca_Kabuli_Chr04	10757629	AA	CC	CC	URR	101491857	transcription factor UPBEAT1-like
SNP_20605_A_10820773	NC_021163.1	Ca_Kabuli_Chr04	10820773	TT	AA	AA	INTERGENIC		
SNP_20606_A_10923769	NC_021163.1	Ca_Kabuli_Chr04	10923769	CC	TT	TT	INTRON	101491029	protein GAMETE EXPRESSED 2
SNP_20608_A_10946958	NC_021163.1	Ca_Kabuli_Chr04	10946958	AA	GG	GG	INTERGENIC		
SNP_20609_A_11003035	NC_021163.1	Ca_Kabuli_Chr04	11003035	TT	GG	GG	DRR	101492308	uncharacterized LOC101492308
SNP_20610_A_11003102	NC_021163.1	Ca_Kabuli_Chr04	11003102	TT	CC	CC	DRR	101492308	uncharacterized LOC101492308
SNP_20611_A_11003256	NC_021163.1	Ca_Kabuli_Chr04	11003256	AA	GG	GG	DRR	101492308	uncharacterized LOC101492308
SNP_20612_A_11003479	NC_021163.1	Ca_Kabuli_Chr04	11003479	TT	CC	CC	NON_SYNONYMOUS_CODING	101492308	uncharacterized LOC101492308
SNP_20613_A_11003672	NC_021163.1	Ca_Kabuli_Chr04	11003672	AA	GG	GG	NON_SYNONYMOUS_CODING	101492308	uncharacterized LOC101492308
SNP_20614_A_11056889	NC_021163.1	Ca_Kabuli_Chr04	11056889	TT	AA	AA	URR	101502228	NAC domain-containing protein 16-like
SNP_20615_A_11057194	NC_021163.1	Ca_Kabuli_Chr04	11057194	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20617_A_11210181	NC_021163.1	Ca_Kabuli_Chr04	11210181	GG	TT	TT	INTRON	101508543	type I inositol 1,4,5-trisphosphate 5-phosphatase 1-like
SNP_20618_A_11210659	NC_021163.1	Ca_Kabuli_Chr04	11210659	AA	GG	GG	INTRON	101508543	type I inositol 1,4,5-trisphosphate 5-phosphatase 1-like
SNP_20619_A_11212351	NC_021163.1	Ca_Kabuli_Chr04	11212351	TT	CC	CC	NON_SYNONYMOUS_CODING	101508543	type I inositol 1,4,5-trisphosphate 5-phosphatase 1-like
SNP_20620_A_11213785	NC_021163.1	Ca_Kabuli_Chr04	11213785	GG	CC	CC	INTRON	101508543	type I inositol 1,4,5-trisphosphate 5-phosphatase 1-like
SNP_20621_A_11216179	NC_021163.1	Ca_Kabuli_Chr04	11216179	CC	AA	AA	URR	101508543	type I inositol 1,4,5-trisphosphate 5-phosphatase 1-like
SNP_20622_A_11219986	NC_021163.1	Ca_Kabuli_Chr04	11219986	CC	AA	AA	INTERGENIC		
SNP_20624_A_11221205	NC_021163.1	Ca_Kabuli_Chr04	11221205	AA	CC	CC	INTERGENIC		
SNP_20625_A_11221572	NC_021163.1	Ca_Kabuli_Chr04	11221572	TT	CC	CC	INTERGENIC		
SNP_20626_A_11221588	NC_021163.1	Ca_Kabuli_Chr04	11221588	GG	TT	TT	INTERGENIC		
SNP_20627_A_11238763	NC_021163.1	Ca_Kabuli_Chr04	11238763	TT	CC	CC	DRR	101509931	ATP synthase mitochondrial F1 complex assembly factor 1-like
SNP_20628_A_11243684	NC_021163.1	Ca_Kabuli_Chr04	11243684	TT	CC	CC	URR	101509931	ATP synthase mitochondrial F1 complex assembly factor 1-like
SNP_20629_A_11251447	NC_021163.1	Ca_Kabuli_Chr04	11251447	TT	CC	CC	DRR	101510794	carboxypeptidase D
SNP_20630_A_11255005	NC_021163.1	Ca_Kabuli_Chr04	11255005	TT	CC	CC	INTRON	101510794	carboxypeptidase D
SNP_20631_A_11257269	NC_021163.1	Ca_Kabuli_Chr04	11257269	CC	AA	AA	INTRON	101510794	carboxypeptidase D
SNP_20632_A_11257398	NC_021163.1	Ca_Kabuli_Chr04	11257398	GG	AA	AA	INTRON	101510794	carboxypeptidase D
SNP_20633_A_11258186	NC_021163.1	Ca_Kabuli_Chr04	11258186	CC	TT	TT	INTRON	101510794	carboxypeptidase D
SNP_20634_A_11259144	NC_021163.1	Ca_Kabuli_Chr04	11259144	CC	GG	GG	URR	101510794	carboxypeptidase D
SNP_20635_A_11261289	NC_021163.1	Ca_Kabuli_Chr04	11261289	AA	GG	GG	INTERGENIC		
SNP_20636_A_11264353	NC_021163.1	Ca_Kabuli_Chr04	11264353	AA	GG	GG	INTERGENIC		
SNP_20637_A_11269875	NC_021163.1	Ca_Kabuli_Chr04	11269875	CC	TT	TT	INTERGENIC		
SNP_20638_A_11271099	NC_021163.1	Ca_Kabuli_Chr04	11271099	TT	AA	AA	URR	101511540	protein GIGANTEA
SNP_20639_A_11281006	NC_021163.1	Ca_Kabuli_Chr04	11281006	AA	GG	GG	URR	101511540	protein GIGANTEA

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20640_A_11281298	NC_021163.1	Ca_Kabuli_Chr04	11281298	AA	GG	GG	URR	101511540	protein GIGANTEA
SNP_20641_A_11281459	NC_021163.1	Ca_Kabuli_Chr04	11281459	CC	AA	AA	URR	101511540	protein GIGANTEA
SNP_20642_A_11281484	NC_021163.1	Ca_Kabuli_Chr04	11281484	AA	TT	TT	URR	101511540	protein GIGANTEA
SNP_20643_A_11283108	NC_021163.1	Ca_Kabuli_Chr04	11283108	TT	CC	CC	DRR	101512073	40S ribosomal protein S18-like
SNP_20644_A_11285366	NC_021163.1	Ca_Kabuli_Chr04	11285366	GG	AA	AA	INTERGENIC		
SNP_20646_A_11287770	NC_021163.1	Ca_Kabuli_Chr04	11287770	AA	TT	TT	URR	101512073	40S ribosomal protein S18-like
SNP_20647_A_11298474	NC_021163.1	Ca_Kabuli_Chr04	11298474	TT	CC	CC	INTERGENIC		
SNP_20648_A_11300390	NC_021163.1	Ca_Kabuli_Chr04	11300390	TT	AA	AA	DRR	101512715	uncharacterized LOC101512715
SNP_20649_A_11300673	NC_021163.1	Ca_Kabuli_Chr04	11300673	TT	GG	GG	DRR	101512715	uncharacterized LOC101512715
SNP_20650_A_11303414	NC_021163.1	Ca_Kabuli_Chr04	11303414	CC	TT	TT	INTRON	id76129	Unknown function
SNP_20651_A_11314477	NC_021163.1	Ca_Kabuli_Chr04	11314477	GG	AA	AA	DRR	101513366	Unknown function
SNP_20652_A_11314975	NC_021163.1	Ca_Kabuli_Chr04	11314975	CC	TT	TT	DRR	101513366	Unknown function
SNP_20653_A_11315820	NC_021163.1	Ca_Kabuli_Chr04	11315820	CC	TT	TT	URR	101513918	probable serine/threonine-protein kinase At1g54610
SNP_20654_A_11315826	NC_021163.1	Ca_Kabuli_Chr04	11315826	TT	AA	AA	URR	101513918	probable serine/threonine-protein kinase At1g54610
SNP_20655_A_11315827	NC_021163.1	Ca_Kabuli_Chr04	11315827	TT	AA	AA	URR	101513918	probable serine/threonine-protein kinase At1g54610
SNP_20656_A_11315830	NC_021163.1	Ca_Kabuli_Chr04	11315830	TT	CC	CC	URR	101513918	probable serine/threonine-protein kinase At1g54610
SNP_20657_A_11315842	NC_021163.1	Ca_Kabuli_Chr04	11315842	AA	GG	GG	URR	101513918	probable serine/threonine-protein kinase At1g54610
SNP_20658_A_11318361	NC_021163.1	Ca_Kabuli_Chr04	11318361	TT	CC	CC	URR	101513366	Unknown function
SNP_20659_A_11318371	NC_021163.1	Ca_Kabuli_Chr04	11318371	AA	GG	GG	URR	101513366	Unknown function
SNP_20660_A_11318395	NC_021163.1	Ca_Kabuli_Chr04	11318395	CC	TT	TT	URR	101513366	Unknown function
SNP_20661_A_11322292	NC_021163.1	Ca_Kabuli_Chr04	11322292	AA	GG	GG	INTERGENIC		
SNP_20662_A_11324851	NC_021163.1	Ca_Kabuli_Chr04	11324851	CC	TT	TT	DRR	101514256	peroxidase 12

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SNP_20663_A_11324853	NC_021163.1	Ca_Kabuli_Chr04	11324853	CC	TT	TT	DRR	101514256	peroxidase 12
SNP_20664_A_11337980	NC_021163.1	Ca_Kabuli_Chr04	11337980	TT	AA	AA	URR	101514893	histone-lysine N-methyltransferase ASHH1
SNP_20665_A_11338519	NC_021163.1	Ca_Kabuli_Chr04	11338519	TT	CC	CC	URR	101514893	histone-lysine N-methyltransferase ASHH1
SNP_20666_A_11340371	NC_021163.1	Ca_Kabuli_Chr04	11340371	TT	CC	CC	INTERGENIC		
SNP_20668_A_11348966	NC_021163.1	Ca_Kabuli_Chr04	11348966	TT	CC	CC	DRR	101515541	uncharacterized LOC101515541
SNP_20669_A_11352089	NC_021163.1	Ca_Kabuli_Chr04	11352089	AA	GG	GG	URR	101494272	uncharacterized LOC101494272
SNP_20670_A_11352103	NC_021163.1	Ca_Kabuli_Chr04	11352103	TT	CC	CC	URR	101494272	uncharacterized LOC101494272
SNP_20671_A_11352356	NC_021163.1	Ca_Kabuli_Chr04	11352356	AA	CC	CC	URR	101494272	uncharacterized LOC101494272
SNP_20672_A_11354519	NC_021163.1	Ca_Kabuli_Chr04	11354519	TT	GG	GG	INTERGENIC		
SNP_20673_A_11362045	NC_021163.1	Ca_Kabuli_Chr04	11362045	GG	TT	TT	DRR	101488294	ethylene-responsive transcription factor ERF110-like
SNP_20674_A_11363351	NC_021163.1	Ca_Kabuli_Chr04	11363351	TT	CC	CC	INTRON	101488294	ethylene-responsive transcription factor ERF110-like
SNP_20675_A_11364937	NC_021163.1	Ca_Kabuli_Chr04	11364937	AA	CC	CC	URR	101488294	ethylene-responsive transcription factor ERF110-like
SNP_20676_A_11365190	NC_021163.1	Ca_Kabuli_Chr04	11365190	TT	CC	CC	URR	101488294	ethylene-responsive transcription factor ERF110-like
SNP_20677_A_11366454	NC_021163.1	Ca_Kabuli_Chr04	11366454	TT	CC	CC	URR	101488294	ethylene-responsive transcription factor ERF110-like
SNP_20678_A_11373504	NC_021163.1	Ca_Kabuli_Chr04	11373504	AA	GG	GG	INTERGENIC		
SNP_20679_A_11373535	NC_021163.1	Ca_Kabuli_Chr04	11373535	CC	TT	TT	INTERGENIC		
SNP_20680_A_11374612	NC_021163.1	Ca_Kabuli_Chr04	11374612	CC	AA	AA	INTERGENIC		
SNP_20681_A_11375681	NC_021163.1	Ca_Kabuli_Chr04	11375681	GG	AA	AA	INTERGENIC		
SNP_20682_A_11380668	NC_021163.1	Ca_Kabuli_Chr04	11380668	AA	GG	GG	INTERGENIC		
SNP_20683_A_11380852	NC_021163.1	Ca_Kabuli_Chr04	11380852	TT	AA	AA	INTERGENIC		
SNP_20684_A_11387145	NC_021163.1	Ca_Kabuli_Chr04	11387145	GG	TT	TT	INTRON	101489407	polypyrimidine tract-binding protein homolog 3
SNP_20685_A_11399375	NC_021163.1	Ca_Kabuli_Chr04	11399375	AA	GG	GG	URR	101490160	60S ribosomal protein L3-1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20686_A_11399382	NC_021163.1	Ca_Kabuli_Chr04	11399382	TT	GG	GG	URR	101490160	60S ribosomal protein L3-1
SNP_20687_A_11399400	NC_021163.1	Ca_Kabuli_Chr04	11399400	TT	AA	AA	URR	101490160	60S ribosomal protein L3-1
SNP_20688_A_11400483	NC_021163.1	Ca_Kabuli_Chr04	11400483	AA	GG	GG	URR	101490160	60S ribosomal protein L3-1
SNP_20689_A_11415776	NC_021163.1	Ca_Kabuli_Chr04	11415776	CC	AA	AA	URR	101490808	G-box-binding factor 4-like
SNP_20690_A_11416024	NC_021163.1	Ca_Kabuli_Chr04	11416024	CC	TT	TT	URR	101490808	G-box-binding factor 4-like
SNP_20691_A_11416180	NC_021163.1	Ca_Kabuli_Chr04	11416180	GG	AA	AA	URR	101490808	G-box-binding factor 4-like
SNP_20692_A_11417715	NC_021163.1	Ca_Kabuli_Chr04	11417715	CC	AA	AA	DRR	101491663	sterol 3-beta-glucosyltransferase UGT80B1
SNP_20693_A_11426577	NC_021163.1	Ca_Kabuli_Chr04	11426577	GG	CC	CC	URR	101491663	sterol 3-beta-glucosyltransferase UGT80B1
SNP_20695_A_11435999	NC_021163.1	Ca_Kabuli_Chr04	11435999	AA	GG	GG	DRR	101492753	thioredoxin Y1, chloroplastic-like
SNP_20696_A_11438717	NC_021163.1	Ca_Kabuli_Chr04	11438717	TT	CC	CC	INTERGENIC		
SNP_20697_A_11440998	NC_021163.1	Ca_Kabuli_Chr04	11440998	GG	AA	AA	URR	101492753	thioredoxin Y1, chloroplastic-like
SNP_20698_A_11442061	NC_021163.1	Ca_Kabuli_Chr04	11442061	TT	CC	CC	INTERGENIC		
SNP_20699_A_11443240	NC_021163.1	Ca_Kabuli_Chr04	11443240	CC	TT	TT	URR	101493087	40S ribosomal protein S18-like
SNP_20700_A_11443306	NC_021163.1	Ca_Kabuli_Chr04	11443306	GG	AA	AA	URR	101493087	40S ribosomal protein S18-like
SNP_20701_A_11443390	NC_021163.1	Ca_Kabuli_Chr04	11443390	AA	TT	TT	URR	101493087	40S ribosomal protein S18-like
SNP_20702_A_11443400	NC_021163.1	Ca_Kabuli_Chr04	11443400	CC	GG	GG	URR	101493087	40S ribosomal protein S18-like
SNP_20703_A_11443803	NC_021163.1	Ca_Kabuli_Chr04	11443803	GG	CC	CC	URR	101493087	40S ribosomal protein S18-like
SNP_20704_A_11451925	NC_021163.1	Ca_Kabuli_Chr04	11451925	TT	GG	GG	INTERGENIC		
SNP_20705_A_11461022	NC_021163.1	Ca_Kabuli_Chr04	11461022	TT	CC	CC	INTERGENIC		
SNP_20706_A_11466952	NC_021163.1	Ca_Kabuli_Chr04	11466952	TT	CC	CC	URR	101494271	uncharacterized LOC101494271
SNP_20707_A_11467577	NC_021163.1	Ca_Kabuli_Chr04	11467577	TT	CC	CC	URR	101494271	uncharacterized LOC101494271
SNP_20708_A_11467608	NC_021163.1	Ca_Kabuli_Chr04	11467608	GG	AA	AA	URR	101494271	uncharacterized LOC101494271

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SNP_20709_A_11468750	NC_021163.1	Ca_Kabuli_Chr04	11468750	CC	TT	TT	INTERGENIC		
SNP_20710_A_11468822	NC_021163.1	Ca_Kabuli_Chr04	11468822	TT	CC	CC	INTERGENIC		
SNP_20711_A_11470142	NC_021163.1	Ca_Kabuli_Chr04	11470142	GG	AA	AA	INTERGENIC		
SNP_20712_A_11470166	NC_021163.1	Ca_Kabuli_Chr04	11470166	AA	GG	GG	INTERGENIC		
SNP_20713_A_11470486	NC_021163.1	Ca_Kabuli_Chr04	11470486	GG	AA	AA	INTERGENIC		
SNP_20714_A_11471766	NC_021163.1	Ca_Kabuli_Chr04	11471766	GG	AA	AA	INTERGENIC		
SNP_20715_A_11477517	NC_021163.1	Ca_Kabuli_Chr04	11477517	GG	TT	TT	URR	101494579	uncharacterized LOC101494579
SNP_20716_A_11489077	NC_021163.1	Ca_Kabuli_Chr04	11489077	TT	AA	AA	DRR	101494779	tubby-like F-box protein 8
SNP_20717_A_11492588	NC_021163.1	Ca_Kabuli_Chr04	11492588	TT	GG	GG	INTRON	101494779	tubby-like F-box protein 8
SNP_20719_A_11515166	NC_021163.1	Ca_Kabuli_Chr04	11515166	CC	TT	TT	INTERGENIC		
SNP_20720_A_11515516	NC_021163.1	Ca_Kabuli_Chr04	11515516	AA	GG	GG	INTERGENIC		
SNP_20721_A_11515774	NC_021163.1	Ca_Kabuli_Chr04	11515774	GG	TT	TT	INTERGENIC		
SNP_20722_A_11520604	NC_021163.1	Ca_Kabuli_Chr04	11520604	GG	TT	TT	INTERGENIC		
SNP_20723_A_11524339	NC_021163.1	Ca_Kabuli_Chr04	11524339	TT	CC	CC	INTERGENIC		
SNP_20724_A_11524381	NC_021163.1	Ca_Kabuli_Chr04	11524381	CC	TT	TT	INTERGENIC		
SNP_20725_A_11533176	NC_021163.1	Ca_Kabuli_Chr04	11533176	AA	GG	GG	INTERGENIC		
SNP_20726_A_11533598	NC_021163.1	Ca_Kabuli_Chr04	11533598	TT	CC	CC	INTERGENIC		
SNP_20727_A_11539296	NC_021163.1	Ca_Kabuli_Chr04	11539296	CC	TT	TT	INTERGENIC		
SNP_20728_A_11542112	NC_021163.1	Ca_Kabuli_Chr04	11542112	AA	GG	GG	INTERGENIC		
SNP_20729_A_11543928	NC_021163.1	Ca_Kabuli_Chr04	11543928	AA	TT	TT	INTERGENIC		
SNP_20730_A_11543930	NC_021163.1	Ca_Kabuli_Chr04	11543930	TT	GG	GG	INTERGENIC		
SNP_20731_A_11544023	NC_021163.1	Ca_Kabuli_Chr04	11544023	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20732_A_11548696	NC_021163.1	Ca_Kabuli_Chr04	11548696	GG	AA	AA	INTERGENIC		
SNP_20735_A_11569528	NC_021163.1	Ca_Kabuli_Chr04	11569528	CC	AA	AA	INTERGENIC		
SNP_20736_A_11672415	NC_021163.1	Ca_Kabuli_Chr04	11672415	TT	AA	AA	INTERGENIC		
SNP_20737_A_11681843	NC_021163.1	Ca_Kabuli_Chr04	11681843	GG	AA	AA	INTERGENIC		
SNP_20738_A_11722537	NC_021163.1	Ca_Kabuli_Chr04	11722537	AA	TT	TT	DRR	101500209	extensin-3-like
SNP_20739_A_11740752	NC_021163.1	Ca_Kabuli_Chr04	11740752	TT	AA	AA	INTERGENIC		
SNP_20740_A_11788317	NC_021163.1	Ca_Kabuli_Chr04	11788317	CC	GG	GG	INTERGENIC		
SNP_20741_A_11793561	NC_021163.1	Ca_Kabuli_Chr04	11793561	CC	TT	TT	INTERGENIC		
SNP_20742_A_11793596	NC_021163.1	Ca_Kabuli_Chr04	11793596	TT	CC	CC	INTERGENIC		
SNP_20743_A_11793658	NC_021163.1	Ca_Kabuli_Chr04	11793658	AA	GG	GG	INTERGENIC		
SNP_20744_A_11799645	NC_021163.1	Ca_Kabuli_Chr04	11799645	TT	AA	AA	INTERGENIC		
SNP_20745_A_11843914	NC_021163.1	Ca_Kabuli_Chr04	11843914	TT	CC	CC	URR	101502549	ABC transporter C family member 10-like
SNP_20746_A_11847494	NC_021163.1	Ca_Kabuli_Chr04	11847494	CC	TT	TT	SYNONYMOUS_CODING	id76492	Unknown function
SNP_20748_A_11874718	NC_021163.1	Ca_Kabuli_Chr04	11874718	CC	GG	GG	INTRON	101504155	protein timeless homolog
SNP_20749_A_11926380	NC_021163.1	Ca_Kabuli_Chr04	11926380	TT	AA	AA	INTRON	101506297	uncharacterized AAA domain-containing protein C16E9.10c-like
SNP_20751_A_12145745	NC_021163.1	Ca_Kabuli_Chr04	12145745	GG	AA	AA	INTERGENIC		
SNP_20752_A_12178876	NC_021163.1	Ca_Kabuli_Chr04	12178876	TT	AA	AA	INTERGENIC		
SNP_20753_A_12193677	NC_021163.1	Ca_Kabuli_Chr04	12193677	TT	AA	AA	INTERGENIC		
SNP_20754_A_12207456	NC_021163.1	Ca_Kabuli_Chr04	12207456	AA	TT	TT	INTERGENIC		
SNP_20755_A_12225931	NC_021163.1	Ca_Kabuli_Chr04	12225931	AA	GG	GG	URR	101515104	UPF0496 protein At3g49070
SNP_20756_A_12227560	NC_021163.1	Ca_Kabuli_Chr04	12227560	GG	AA	AA	DRR	101488296	methyltransferase-like protein 1
SNP_20759_A_12338994	NC_021163.1	Ca_Kabuli_Chr04	12338994	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20760_A_12339004	NC_021163.1	Ca_Kabuli_Chr04	12339004	GG	AA	AA	INTERGENIC		
SNP_20761_A_12339006	NC_021163.1	Ca_Kabuli_Chr04	12339006	CC	TT	TT	INTERGENIC		
SNP_20762_A_12339165	NC_021163.1	Ca_Kabuli_Chr04	12339165	CC	TT	TT	INTERGENIC		
SNP_20763_A_12339175	NC_021163.1	Ca_Kabuli_Chr04	12339175	AA	GG	GG	INTERGENIC		
SNP_20764_A_12339185	NC_021163.1	Ca_Kabuli_Chr04	12339185	GG	AA	AA	INTERGENIC		
SNP_20765_A_12343848	NC_021163.1	Ca_Kabuli_Chr04	12343848	TT	GG	GG	NON_SYNONYMOUS_CODING	101500100	Unknown function
SNP_20766_A_12363384	NC_021163.1	Ca_Kabuli_Chr04	12363384	TT	GG	GG	INTERGENIC		
SNP_20767_A_12391095	NC_021163.1	Ca_Kabuli_Chr04	12391095	GG	TT	TT	INTERGENIC		
SNP_20768_A_12392581	NC_021163.1	Ca_Kabuli_Chr04	12392581	GG	AA	AA	INTERGENIC		
SNP_20769_A_12463938	NC_021163.1	Ca_Kabuli_Chr04	12463938	GG	TT	TT	INTERGENIC		
SNP_20770_A_12473297	NC_021163.1	Ca_Kabuli_Chr04	12473297	AA	CC	CC	URR	101496311	actin-depolymerizing factor 7
SNP_20771_A_12480139	NC_021163.1	Ca_Kabuli_Chr04	12480139	AA	TT	TT	INTERGENIC		
SNP_20772_A_12480152	NC_021163.1	Ca_Kabuli_Chr04	12480152	CC	TT	TT	INTERGENIC		
SNP_20773_A_12480177	NC_021163.1	Ca_Kabuli_Chr04	12480177	CC	TT	TT	INTERGENIC		
SNP_20774_A_12485094	NC_021163.1	Ca_Kabuli_Chr04	12485094	GG	TT	TT	INTERGENIC		
SNP_20775_A_12485123	NC_021163.1	Ca_Kabuli_Chr04	12485123	TT	AA	AA	INTERGENIC		
SNP_20776_A_12485523	NC_021163.1	Ca_Kabuli_Chr04	12485523	TT	GG	GG	INTERGENIC		
SNP_20777_A_12485577	NC_021163.1	Ca_Kabuli_Chr04	12485577	CC	AA	AA	INTERGENIC		
SNP_20778_A_12485612	NC_021163.1	Ca_Kabuli_Chr04	12485612	TT	AA	AA	INTERGENIC		
SNP_20779_A_12485615	NC_021163.1	Ca_Kabuli_Chr04	12485615	TT	CC	CC	INTERGENIC		
SNP_20780_A_12485628	NC_021163.1	Ca_Kabuli_Chr04	12485628	CC	AA	AA	INTERGENIC		
SNP_20781_A_12487482	NC_021163.1	Ca_Kabuli_Chr04	12487482	CC	GG	GG	DRR	101498730	uncharacterized LOC101498730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20783_A_12492569	NC_021163.1	Ca_Kabuli_Chr04	12492569	GG	AA	AA	INTERGENIC		
SNP_20784_A_12497635	NC_021163.1	Ca_Kabuli_Chr04	12497635	TT	GG	GG	INTERGENIC		
SNP_20785_A_12503632	NC_021163.1	Ca_Kabuli_Chr04	12503632	GG	AA	AA	INTRON	101499984	paramyosin
SNP_20788_A_12505377	NC_021163.1	Ca_Kabuli_Chr04	12505377	TT	GG	GG	URR	101499984	paramyosin
SNP_20789_A_12505386	NC_021163.1	Ca_Kabuli_Chr04	12505386	AA	GG	GG	URR	101499984	paramyosin
SNP_20791_A_12505991	NC_021163.1	Ca_Kabuli_Chr04	12505991	AA	CC	CC	URR	101499984	paramyosin
SNP_20793_A_12510116	NC_021163.1	Ca_Kabuli_Chr04	12510116	AA	GG	GG	INTERGENIC		
SNP_20795_A_12519108	NC_021163.1	Ca_Kabuli_Chr04	12519108	CC	TT	TT	INTERGENIC		
SNP_20796_A_12520018	NC_021163.1	Ca_Kabuli_Chr04	12520018	TT	AA	AA	DRR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20797_A_12520282	NC_021163.1	Ca_Kabuli_Chr04	12520282	TT	AA	AA	DRR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20798_A_12523173	NC_021163.1	Ca_Kabuli_Chr04	12523173	TT	AA	AA	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20799_A_12523236	NC_021163.1	Ca_Kabuli_Chr04	12523236	CC	TT	TT	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20800_A_12523238	NC_021163.1	Ca_Kabuli_Chr04	12523238	CC	TT	TT	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20801_A_12523242	NC_021163.1	Ca_Kabuli_Chr04	12523242	GG	TT	TT	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20802_A_12523321	NC_021163.1	Ca_Kabuli_Chr04	12523321	TT	CC	CC	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20803_A_12524770	NC_021163.1	Ca_Kabuli_Chr04	12524770	CC	TT	TT	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20804_A_12524798	NC_021163.1	Ca_Kabuli_Chr04	12524798	GG	AA	AA	INTRON	101500328	transmembrane ascorbate ferrireductase 1
SNP_20806_A_12527282	NC_021163.1	Ca_Kabuli_Chr04	12527282	CC	TT	TT	URR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20807_A_12527661	NC_021163.1	Ca_Kabuli_Chr04	12527661	TT	CC	CC	URR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20808_A_12528154	NC_021163.1	Ca_Kabuli_Chr04	12528154	GG	AA	AA	URR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20809_A_12528208	NC_021163.1	Ca_Kabuli_Chr04	12528208	AA	GG	GG	URR	101500328	transmembrane ascorbate ferrireductase 1
SNP_20811_A_12529359	NC_021163.1	Ca_Kabuli_Chr04	12529359	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20812_A_12529371	NC_021163.1	Ca_Kabuli_Chr04	12529371	TT	CC	CC	INTERGENIC		
SNP_20813_A_12529642	NC_021163.1	Ca_Kabuli_Chr04	12529642	AA	TT	TT	DRR	101501168	remorin-like
SNP_20817_A_12530287	NC_021163.1	Ca_Kabuli_Chr04	12530287	TT	CC	CC	DRR	101501168	remorin-like
SNP_20819_A_12537583	NC_021163.1	Ca_Kabuli_Chr04	12537583	TT	CC	CC	URR	101500843	myb-related protein Myb4-like
SNP_20820_A_12542048	NC_021163.1	Ca_Kabuli_Chr04	12542048	GG	AA	AA	INTERGENIC		
SNP_20821_A_12542320	NC_021163.1	Ca_Kabuli_Chr04	12542320	CC	AA	AA	INTERGENIC		
SNP_20823_A_12551202	NC_021163.1	Ca_Kabuli_Chr04	12551202	GG	AA	AA	INTERGENIC		
SNP_20824_A_12551551	NC_021163.1	Ca_Kabuli_Chr04	12551551	CC	TT	TT	INTERGENIC		
SNP_20825_A_12551554	NC_021163.1	Ca_Kabuli_Chr04	12551554	GG	TT	TT	INTERGENIC		
SNP_20826_A_12553951	NC_021163.1	Ca_Kabuli_Chr04	12553951	GG	AA	AA	URR	101501365	transcription factor LAF1-like
SNP_20828_A_12558680	NC_021163.1	Ca_Kabuli_Chr04	12558680	TT	CC	CC	INTRON	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20829_A_12558798	NC_021163.1	Ca_Kabuli_Chr04	12558798	TT	GG	GG	INTRON	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20830_A_12558938	NC_021163.1	Ca_Kabuli_Chr04	12558938	TT	AA	AA	INTRON	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20831_A_12559070	NC_021163.1	Ca_Kabuli_Chr04	12559070	GG	AA	AA	INTRON	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20832_A_12562134	NC_021163.1	Ca_Kabuli_Chr04	12562134	TT	CC	CC	URR	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20833_A_12562178	NC_021163.1	Ca_Kabuli_Chr04	12562178	TT	AA	AA	URR	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20834_A_12562182	NC_021163.1	Ca_Kabuli_Chr04	12562182	GG	TT	TT	URR	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20835_A_12562183	NC_021163.1	Ca_Kabuli_Chr04	12562183	AA	TT	TT	URR	101501485	pre-mRNA cleavage factor Im 25 kDa subunit 2
SNP_20836_A_12563188	NC_021163.1	Ca_Kabuli_Chr04	12563188	GG	TT	TT	INTERGENIC		
SNP_20837_A_12563196	NC_021163.1	Ca_Kabuli_Chr04	12563196	GG	AA	AA	INTERGENIC		
SNP_20838_A_12565947	NC_021163.1	Ca_Kabuli_Chr04	12565947	CC	GG	GG	INTERGENIC		
SNP_20839_A_12566192	NC_021163.1	Ca_Kabuli_Chr04	12566192	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20840_A_12566195	NC_021163.1	Ca_Kabuli_Chr04	12566195	AA	GG	GG	INTERGENIC		
SNP_20841_A_12566196	NC_021163.1	Ca_Kabuli_Chr04	12566196	TT	CC	CC	INTERGENIC		
SNP_20842_A_12566413	NC_021163.1	Ca_Kabuli_Chr04	12566413	CC	TT	TT	INTERGENIC		
SNP_20843_A_12566596	NC_021163.1	Ca_Kabuli_Chr04	12566596	AA	GG	GG	INTERGENIC		
SNP_20845_A_12566685	NC_021163.1	Ca_Kabuli_Chr04	12566685	AA	TT	TT	INTERGENIC		
SNP_20846_A_12567018	NC_021163.1	Ca_Kabuli_Chr04	12567018	GG	AA	AA	DRR	101501799	homoserine kinase
SNP_20847_A_12567470	NC_021163.1	Ca_Kabuli_Chr04	12567470	CC	TT	TT	DRR	101501799	homoserine kinase
SNP_20848_A_12567909	NC_021163.1	Ca_Kabuli_Chr04	12567909	GG	AA	AA	DRR	101501799	homoserine kinase
SNP_20849_A_12567915	NC_021163.1	Ca_Kabuli_Chr04	12567915	CC	TT	TT	DRR	101501799	homoserine kinase
SNP_20852_A_12571151	NC_021163.1	Ca_Kabuli_Chr04	12571151	CC	TT	TT	URR	101501799	homoserine kinase
SNP_20853_A_12571154	NC_021163.1	Ca_Kabuli_Chr04	12571154	AA	GG	GG	URR	101501799	homoserine kinase
SNP_20854_A_12571366	NC_021163.1	Ca_Kabuli_Chr04	12571366	GG	AA	AA	URR	101501799	homoserine kinase
SNP_20855_A_12571866	NC_021163.1	Ca_Kabuli_Chr04	12571866	TT	AA	AA	URR	101501799	homoserine kinase
SNP_20856_A_12572114	NC_021163.1	Ca_Kabuli_Chr04	12572114	AA	GG	GG	URR	101501799	homoserine kinase
SNP_20857_A_12572117	NC_021163.1	Ca_Kabuli_Chr04	12572117	AA	TT	TT	URR	101501799	homoserine kinase
SNP_20859_A_12573172	NC_021163.1	Ca_Kabuli_Chr04	12573172	CC	TT	TT	DRR	101502126	DNA mismatch repair protein MSH3
SNP_20860_A_12573804	NC_021163.1	Ca_Kabuli_Chr04	12573804	AA	TT	TT	DRR	101502126	DNA mismatch repair protein MSH3
SNP_20861_A_12575278	NC_021163.1	Ca_Kabuli_Chr04	12575278	GG	AA	AA	INTERGENIC		
SNP_20862_A_12576696	NC_021163.1	Ca_Kabuli_Chr04	12576696	AA	CC	CC	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20863_A_12576712	NC_021163.1	Ca_Kabuli_Chr04	12576712	AA	TT	TT	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20864_A_12577800	NC_021163.1	Ca_Kabuli_Chr04	12577800	TT	AA	AA	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20866_A_12578089	NC_021163.1	Ca_Kabuli_Chr04	12578089	TT	AA	AA	INTRON	101502126	DNA mismatch repair protein MSH3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20868_A_12578369	NC_021163.1	Ca_Kabuli_Chr04	12578369	AA	CC	CC	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20869_A_12578378	NC_021163.1	Ca_Kabuli_Chr04	12578378	AA	TT	TT	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20871_A_12581082	NC_021163.1	Ca_Kabuli_Chr04	12581082	AA	CC	CC	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20872_A_12583186	NC_021163.1	Ca_Kabuli_Chr04	12583186	GG	TT	TT	INTRON	101502126	DNA mismatch repair protein MSH3
SNP_20873_A_12587857	NC_021163.1	Ca_Kabuli_Chr04	12587857	TT	AA	AA	DRR	101502550	F-box/LRR-repeat protein At3g48880
SNP_20876_A_12589511	NC_021163.1	Ca_Kabuli_Chr04	12589511	TT	GG	GG	SYNONYMOUS_CODING	101502550	F-box/LRR-repeat protein At3g48880
SNP_20877_A_12591240	NC_021163.1	Ca_Kabuli_Chr04	12591240	AA	GG	GG	INTERGENIC		
SNP_20878_A_12592222	NC_021163.1	Ca_Kabuli_Chr04	12592222	CC	TT	TT	URR	101502550	F-box/LRR-repeat protein At3g48880
SNP_20880_A_12592493	NC_021163.1	Ca_Kabuli_Chr04	12592493	GG	AA	AA	URR	101502550	F-box/LRR-repeat protein At3g48880
SNP_20881_A_12593112	NC_021163.1	Ca_Kabuli_Chr04	12593112	TT	CC	CC	URR	101502550	F-box/LRR-repeat protein At3g48880
SNP_20884_A_12593349	NC_021163.1	Ca_Kabuli_Chr04	12593349	AA	TT	TT	DRR	101502864	membrane steroid-binding protein 1-like
SNP_20885_A_12593359	NC_021163.1	Ca_Kabuli_Chr04	12593359	AA	GG	GG	DRR	101502864	membrane steroid-binding protein 1-like
SNP_20887_A_12597123	NC_021163.1	Ca_Kabuli_Chr04	12597123	GG	AA	AA	URR	101502864	membrane steroid-binding protein 1-like
SNP_20888_A_12597748	NC_021163.1	Ca_Kabuli_Chr04	12597748	AA	GG	GG	URR	101502864	membrane steroid-binding protein 1-like
SNP_20889_A_12599278	NC_021163.1	Ca_Kabuli_Chr04	12599278	CC	TT	TT	URR	101503187	Unknown function
SNP_20890_A_12601984	NC_021163.1	Ca_Kabuli_Chr04	12601984	AA	TT	TT	INTERGENIC		
SNP_20891_A_12602216	NC_021163.1	Ca_Kabuli_Chr04	12602216	AA	GG	GG	INTERGENIC		
SNP_20892_A_12602224	NC_021163.1	Ca_Kabuli_Chr04	12602224	GG	CC	CC	INTERGENIC		
SNP_20893_A_12602360	NC_021163.1	Ca_Kabuli_Chr04	12602360	TT	AA	AA	INTERGENIC		
SNP_20894_A_12603876	NC_021163.1	Ca_Kabuli_Chr04	12603876	CC	AA	AA	INTERGENIC		
SNP_20896_A_12605619	NC_021163.1	Ca_Kabuli_Chr04	12605619	CC	TT	TT	INTERGENIC		
SNP_20897_A_12606076	NC_021163.1	Ca_Kabuli_Chr04	12606076	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_20898_A_12606708	NC_021163.1	Ca_Kabuli_Chr04	12606708	CC	TT	TT	INTERGENIC			
SNP_20899_A_12609301	NC_021163.1	Ca_Kabuli_Chr04	12609301	CC	TT	TT	INTERGENIC			
SNP_20900_A_12609320	NC_021163.1	Ca_Kabuli_Chr04	12609320	TT	CC	CC	INTERGENIC			
SNP_20901_A_12627418	NC_021163.1	Ca_Kabuli_Chr04	12627418	CC	TT	TT	INTERGENIC			
SNP_20902_A_12627568	NC_021163.1	Ca_Kabuli_Chr04	12627568	AA	GG	GG	INTERGENIC			
SNP_20903_A_12628062	NC_021163.1	Ca_Kabuli_Chr04	12628062	GG	TT	TT	INTERGENIC			
SNP_20906_A_12676389	NC_021163.1	Ca_Kabuli_Chr04	12676389	AA	GG	GG	INTERGENIC			
SNP_20907_A_12676398	NC_021163.1	Ca_Kabuli_Chr04	12676398	GG	AA	AA	INTERGENIC			
SNP_20908_A_12676452	NC_021163.1	Ca_Kabuli_Chr04	12676452	GG	AA	AA	INTERGENIC			
SNP_20909_A_12676486	NC_021163.1	Ca_Kabuli_Chr04	12676486	TT	CC	CC	INTERGENIC			
SNP_20910_A_12676499	NC_021163.1	Ca_Kabuli_Chr04	12676499	GG	AA	AA	INTERGENIC			
SNP_20911_A_12676665	NC_021163.1	Ca_Kabuli_Chr04	12676665	AA	GG	GG	INTERGENIC			
SNP_20912_A_12676713	NC_021163.1	Ca_Kabuli_Chr04	12676713	AA	GG	GG	INTERGENIC			
SNP_20913_A_12676757	NC_021163.1	Ca_Kabuli_Chr04	12676757	GG	AA	AA	INTERGENIC			
SNP_20916_A_12769779	NC_021163.1	Ca_Kabuli_Chr04	12769779	AA	TT	TT	INTERGENIC			
SNP_20917_A_12832645	NC_021163.1	Ca_Kabuli_Chr04	12832645	TT	CC	CC	DRR	101510796	traB domain-containing protein	
SNP_20921_A_13053298	NC_021163.1	Ca_Kabuli_Chr04	13053298	AA	TT	TT	URR	101492755	receptor-like serine/threonine-protein kinase At4g25390	
SNP_20923_A_13082266	NC_021163.1	Ca_Kabuli_Chr04	13082266	AA	TT	TT	DRR	101503613	3-ketoacyl-CoA synthase 5-like	
SNP_20924_A_13082268	NC_021163.1	Ca_Kabuli_Chr04	13082268	AA	TT	TT	DRR	101503613	3-ketoacyl-CoA synthase 5-like	
SNP_20925_A_13095646	NC_021163.1	Ca_Kabuli_Chr04	13095646	AA	GG	GG	INTERGENIC			
SNP_20926_A_13126290	NC_021163.1	Ca_Kabuli_Chr04	13126290	TT	AA	AA	DRR	101495440	xyloglucan galactosyltransferase KATAMAR11 homolog	
SNP_20928_A_13157712	NC_021163.1	Ca_Kabuli_Chr04	13157712	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20929_A_13158302	NC_021163.1	Ca_Kabuli_Chr04	13158302	GG	AA	AA	INTERGENIC		
SNP_20930_A_13257901	NC_021163.1	Ca_Kabuli_Chr04	13257901	CC	TT	TT	DRR	101500330	probable inactive serine/threonine-protein kinase lvsG
SNP_20932_A_13347053	NC_021163.1	Ca_Kabuli_Chr04	13347053	TT	GG	GG	INTERGENIC		
SNP_20933_A_13386048	NC_021163.1	Ca_Kabuli_Chr04	13386048	AA	GG	GG	INTERGENIC		
SNP_20934_A_13404461	NC_021163.1	Ca_Kabuli_Chr04	13404461	TT	AA	AA	INTERGENIC		
SNP_20935_A_13418361	NC_021163.1	Ca_Kabuli_Chr04	13418361	TT	CC	CC	INTERGENIC		
SNP_20937_A_13461044	NC_021163.1	Ca_Kabuli_Chr04	13461044	CC	GG	GG	DRR	101508222	serine/threonine-protein kinase HT1-like
SNP_20938_A_13481269	NC_021163.1	Ca_Kabuli_Chr04	13481269	TT	AA	AA	INTERGENIC		
SNP_20940_A_13521963	NC_021163.1	Ca_Kabuli_Chr04	13521963	TT	AA	AA	INTERGENIC		
SNP_20941_A_13555705	NC_021163.1	Ca_Kabuli_Chr04	13555705	CC	TT	TT	URR	101510695	vicilin-like
SNP_20942_A_13579471	NC_021163.1	Ca_Kabuli_Chr04	13579471	CC	TT	TT	INTERGENIC		
SNP_20943_A_13579487	NC_021163.1	Ca_Kabuli_Chr04	13579487	CC	TT	TT	INTERGENIC		
SNP_20944_A_13580142	NC_021163.1	Ca_Kabuli_Chr04	13580142	GG	TT	TT	INTERGENIC		
SNP_20945_A_13582452	NC_021163.1	Ca_Kabuli_Chr04	13582452	GG	TT	TT	DRR	101512717	uncharacterized LOC101512717
SNP_20946_A_13602212	NC_021163.1	Ca_Kabuli_Chr04	13602212	CC	TT	TT	INTERGENIC		
SNP_20948_A_13604467	NC_021163.1	Ca_Kabuli_Chr04	13604467	CC	TT	TT	INTERGENIC		
SNP_20949_A_13604473	NC_021163.1	Ca_Kabuli_Chr04	13604473	GG	CC	CC	INTERGENIC		
SNP_20950_A_13612229	NC_021163.1	Ca_Kabuli_Chr04	13612229	AA	CC	CC	INTERGENIC		
SNP_20951_A_13614057	NC_021163.1	Ca_Kabuli_Chr04	13614057	CC	TT	TT	INTERGENIC		
SNP_20952_A_13615634	NC_021163.1	Ca_Kabuli_Chr04	13615634	GG	TT	TT	DRR	101514017	uncharacterized LOC101514017
SNP_20953_A_13617174	NC_021163.1	Ca_Kabuli_Chr04	13617174	TT	AA	AA	INTERGENIC		
SNP_20955_A_13617542	NC_021163.1	Ca_Kabuli_Chr04	13617542	GG	AA	AA	URR	101514017	uncharacterized LOC101514017

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20956_A_13622279	NC_021163.1	Ca_Kabuli_Chr04	13622279	AA	TT	TT	INTRON	101514350	uncharacterized LOC101514350
SNP_20957_A_13623701	NC_021163.1	Ca_Kabuli_Chr04	13623701	TT	GG	GG	URR	101514350	uncharacterized LOC101514350
SNP_20958_A_13626220	NC_021163.1	Ca_Kabuli_Chr04	13626220	CC	TT	TT	INTERGENIC		
SNP_20959_A_13628738	NC_021163.1	Ca_Kabuli_Chr04	13628738	TT	CC	CC	INTERGENIC		
SNP_20960_A_13631050	NC_021163.1	Ca_Kabuli_Chr04	13631050	AA	CC	CC	INTERGENIC		
SNP_20961_A_13633113	NC_021163.1	Ca_Kabuli_Chr04	13633113	TT	GG	GG	INTERGENIC		
SNP_20962_A_13638764	NC_021163.1	Ca_Kabuli_Chr04	13638764	AA	CC	CC	INTERGENIC		
SNP_20963_A_13638791	NC_021163.1	Ca_Kabuli_Chr04	13638791	GG	AA	AA	INTERGENIC		
SNP_20964_A_13638820	NC_021163.1	Ca_Kabuli_Chr04	13638820	TT	AA	AA	INTERGENIC		
SNP_20965_A_13639084	NC_021163.1	Ca_Kabuli_Chr04	13639084	GG	AA	AA	INTERGENIC		
SNP_20967_A_13647850	NC_021163.1	Ca_Kabuli_Chr04	13647850	CC	AA	AA	URR	101515330	late embryogenesis abundant protein D-34-like
SNP_20968_A_13647856	NC_021163.1	Ca_Kabuli_Chr04	13647856	AA	TT	TT	URR	101515330	late embryogenesis abundant protein D-34-like
SNP_20969_A_13649077	NC_021163.1	Ca_Kabuli_Chr04	13649077	GG	TT	TT	INTERGENIC		
SNP_20970_A_13654656	NC_021163.1	Ca_Kabuli_Chr04	13654656	TT	CC	CC	URR	101515654	transcription repressor OFP11
SNP_20971_A_13655442	NC_021163.1	Ca_Kabuli_Chr04	13655442	CC	TT	TT	INTERGENIC		
SNP_20972_A_13656777	NC_021163.1	Ca_Kabuli_Chr04	13656777	AA	GG	GG	INTERGENIC		
SNP_20973_A_13657238	NC_021163.1	Ca_Kabuli_Chr04	13657238	TT	CC	CC	INTERGENIC		
SNP_20975_A_13658544	NC_021163.1	Ca_Kabuli_Chr04	13658544	TT	AA	AA	DRR	101488409	pentatricopeptide repeat-containing protein At4g14850
SNP_20976_A_13662104	NC_021163.1	Ca_Kabuli_Chr04	13662104	AA	GG	GG	URR	101488409	pentatricopeptide repeat-containing protein At4g14850
SNP_20977_A_13663092	NC_021163.1	Ca_Kabuli_Chr04	13663092	TT	CC	CC	URR	101488409	pentatricopeptide repeat-containing protein At4g14850
SNP_20979_A_13666458	NC_021163.1	Ca_Kabuli_Chr04	13666458	AA	TT	TT	INTERGENIC		
SNP_20980_A_13666464	NC_021163.1	Ca_Kabuli_Chr04	13666464	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_20981_A_13666705	NC_021163.1	Ca_Kabuli_Chr04	13666705	CC	TT	TT	INTERGENIC		
SNP_20982_A_13675501	NC_021163.1	Ca_Kabuli_Chr04	13675501	TT	CC	CC	URR	101488740	geraniol 8-hydroxylase-like
SNP_20983_A_13675506	NC_021163.1	Ca_Kabuli_Chr04	13675506	CC	TT	TT	URR	101488740	geraniol 8-hydroxylase-like
SNP_20984_A_13675746	NC_021163.1	Ca_Kabuli_Chr04	13675746	AA	GG	GG	URR	101488740	geraniol 8-hydroxylase-like
SNP_20985_A_13677885	NC_021163.1	Ca_Kabuli_Chr04	13677885	AA	GG	GG	DRR	101489076	cysteine synthase-like
SNP_20986_A_13677920	NC_021163.1	Ca_Kabuli_Chr04	13677920	GG	AA	AA	DRR	101489076	cysteine synthase-like
SNP_20987_A_13682276	NC_021163.1	Ca_Kabuli_Chr04	13682276	CC	TT	TT	URR	101489076	cysteine synthase-like
SNP_20988_A_13682491	NC_021163.1	Ca_Kabuli_Chr04	13682491	AA	GG	GG	URR	101489076	cysteine synthase-like
SNP_20989_A_13682517	NC_021163.1	Ca_Kabuli_Chr04	13682517	GG	AA	AA	URR	101489076	cysteine synthase-like
SNP_20990_A_13690423	NC_021163.1	Ca_Kabuli_Chr04	13690423	AA	GG	GG	URR	101489410	FRIGIDA-like protein 4a
SNP_20991_A_13691018	NC_021163.1	Ca_Kabuli_Chr04	13691018	CC	TT	TT	INTERGENIC		
SNP_20992_A_13691180	NC_021163.1	Ca_Kabuli_Chr04	13691180	CC	GG	GG	INTERGENIC		
SNP_20993_A_13691182	NC_021163.1	Ca_Kabuli_Chr04	13691182	TT	GG	GG	INTERGENIC		
SNP_20995_A_13691843	NC_021163.1	Ca_Kabuli_Chr04	13691843	TT	CC	CC	INTERGENIC		
SNP_20996_A_13691844	NC_021163.1	Ca_Kabuli_Chr04	13691844	CC	AA	AA	INTERGENIC		
SNP_20998_A_13696047	NC_021163.1	Ca_Kabuli_Chr04	13696047	CC	TT	TT	INTRON	101489729	uncharacterized LOC101489729
SNP_20999_A_13696360	NC_021163.1	Ca_Kabuli_Chr04	13696360	GG	AA	AA	INTRON	101489729	uncharacterized LOC101489729
SNP_21000_A_13698500	NC_021163.1	Ca_Kabuli_Chr04	13698500	TT	CC	CC	INTRON	101489729	uncharacterized LOC101489729
SNP_21001_A_13698702	NC_021163.1	Ca_Kabuli_Chr04	13698702	GG	AA	AA	INTRON	101489729	uncharacterized LOC101489729
SNP_21002_A_13703269	NC_021163.1	Ca_Kabuli_Chr04	13703269	GG	AA	AA	INTRON	101489729	uncharacterized LOC101489729
SNP_21003_A_13706011	NC_021163.1	Ca_Kabuli_Chr04	13706011	AA	TT	TT	URR	101489729	uncharacterized LOC101489729
SNP_21004_A_13706092	NC_021163.1	Ca_Kabuli_Chr04	13706092	GG	AA	AA	URR	101489729	uncharacterized LOC101489729

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21005_A_13706102	NC_021163.1	Ca_Kabuli_Chr04	13706102	TT	CC	CC	URR	101489729	uncharacterized LOC101489729
SNP_21006_A_13706130	NC_021163.1	Ca_Kabuli_Chr04	13706130	AA	GG	GG	URR	101489729	uncharacterized LOC101489729
SNP_21007_A_13713550	NC_021163.1	Ca_Kabuli_Chr04	13713550	GG	CC	CC	URR	101506847	thiamine thiazole synthase 2, chloroplastic-like
SNP_21008_A_13729867	NC_021163.1	Ca_Kabuli_Chr04	13729867	AA	GG	GG	URR	101490910	increased DNA methylation 1
SNP_21009_A_13729933	NC_021163.1	Ca_Kabuli_Chr04	13729933	GG	AA	AA	URR	101490910	increased DNA methylation 1
SNP_21011_A_13739854	NC_021163.1	Ca_Kabuli_Chr04	13739854	GG	CC	CC	DRR	101492081	pentatricopeptide repeat-containing protein At2g22070
SNP_21013_A_13751090	NC_021163.1	Ca_Kabuli_Chr04	13751090	CC	TT	TT	URR	101492423	probable serine/threonine-protein kinase WNK9
SNP_21014_A_13751107	NC_021163.1	Ca_Kabuli_Chr04	13751107	AA	GG	GG	URR	101492423	probable serine/threonine-protein kinase WNK9
SNP_21015_A_13753564	NC_021163.1	Ca_Kabuli_Chr04	13753564	CC	TT	TT	INTERGENIC		
SNP_21016_A_13753777	NC_021163.1	Ca_Kabuli_Chr04	13753777	CC	GG	GG	INTERGENIC		
SNP_21017_A_13753801	NC_021163.1	Ca_Kabuli_Chr04	13753801	TT	CC	CC	INTERGENIC		
SNP_21019_A_13760852	NC_021163.1	Ca_Kabuli_Chr04	13760852	TT	AA	AA	NON_SYNONYMOUS_CODING	101493195	uncharacterized LOC101493195
SNP_21020_A_13764314	NC_021163.1	Ca_Kabuli_Chr04	13764314	AA	GG	GG	DRR	101493738	uncharacterized LOC101493738
SNP_21021_A_13764476	NC_021163.1	Ca_Kabuli_Chr04	13764476	AA	TT	TT	DRR	101493738	uncharacterized LOC101493738
SNP_21022_A_13765334	NC_021163.1	Ca_Kabuli_Chr04	13765334	GG	TT	TT	INTERGENIC		
SNP_21023_A_13766508	NC_021163.1	Ca_Kabuli_Chr04	13766508	CC	GG	GG	INTERGENIC		
SNP_21024_A_13770748	NC_021163.1	Ca_Kabuli_Chr04	13770748	CC	TT	TT	URR	101494058	Unknown function
SNP_21025_A_13774979	NC_021163.1	Ca_Kabuli_Chr04	13774979	AA	TT	TT	INTERGENIC		
SNP_21026_A_13775087	NC_021163.1	Ca_Kabuli_Chr04	13775087	TT	GG	GG	INTERGENIC		
SNP_21027_A_13776039	NC_021163.1	Ca_Kabuli_Chr04	13776039	TT	AA	AA	INTERGENIC		
SNP_21028_A_13776541	NC_021163.1	Ca_Kabuli_Chr04	13776541	AA	CC	CC	INTERGENIC		
SNP_21030_A_13777058	NC_021163.1	Ca_Kabuli_Chr04	13777058	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21031_A_13777828	NC_021163.1	Ca_Kabuli_Chr04	13777828	TT	AA	AA	INTERGENIC		
SNP_21032_A_13779392	NC_021163.1	Ca_Kabuli_Chr04	13779392	AA	TT	TT	INTRON	101494372	uncharacterized LOC101494372
SNP_21033_A_13785371	NC_021163.1	Ca_Kabuli_Chr04	13785371	TT	CC	CC	DRR	101494680	primary amine oxidase
SNP_21034_A_13792800	NC_021163.1	Ca_Kabuli_Chr04	13792800	TT	CC	CC	INTERGENIC		
SNP_21035_A_13796125	NC_021163.1	Ca_Kabuli_Chr04	13796125	GG	AA	AA	INTERGENIC		
SNP_21036_A_13803376	NC_021163.1	Ca_Kabuli_Chr04	13803376	CC	GG	GG	INTERGENIC		
SNP_21037_A_13806496	NC_021163.1	Ca_Kabuli_Chr04	13806496	GG	AA	AA	INTRON	101495975	linoleate 9S-lipoxygenase 5, chloroplastic
SNP_21038_A_13807579	NC_021163.1	Ca_Kabuli_Chr04	13807579	AA	GG	GG	URR	101495975	linoleate 9S-lipoxygenase 5, chloroplastic
SNP_21039_A_13807588	NC_021163.1	Ca_Kabuli_Chr04	13807588	GG	AA	AA	URR	101495975	linoleate 9S-lipoxygenase 5, chloroplastic
SNP_21040_A_13809386	NC_021163.1	Ca_Kabuli_Chr04	13809386	CC	AA	AA	INTERGENIC		
SNP_21041_A_13810601	NC_021163.1	Ca_Kabuli_Chr04	13810601	AA	TT	TT	INTERGENIC		
SNP_21042_A_13810632	NC_021163.1	Ca_Kabuli_Chr04	13810632	CC	TT	TT	INTERGENIC		
SNP_21043_A_13812739	NC_021163.1	Ca_Kabuli_Chr04	13812739	CC	TT	TT	INTERGENIC		
SNP_21044_A_13814204	NC_021163.1	Ca_Kabuli_Chr04	13814204	CC	AA	AA	INTERGENIC		
SNP_21045_A_13814224	NC_021163.1	Ca_Kabuli_Chr04	13814224	AA	GG	GG	INTERGENIC		
SNP_21046_A_13816563	NC_021163.1	Ca_Kabuli_Chr04	13816563	AA	GG	GG	DRR	101495652	vacuole membrane protein KMS1-like
SNP_21047_A_13816588	NC_021163.1	Ca_Kabuli_Chr04	13816588	AA	CC	CC	DRR	101495652	vacuole membrane protein KMS1-like
SNP_21048_A_13824231	NC_021163.1	Ca_Kabuli_Chr04	13824231	CC	TT	TT	URR	101495652	vacuole membrane protein KMS1-like
SNP_21049_A_13826044	NC_021163.1	Ca_Kabuli_Chr04	13826044	GG	AA	AA	INTERGENIC		
SNP_21050_A_13826727	NC_021163.1	Ca_Kabuli_Chr04	13826727	CC	TT	TT	INTERGENIC		
SNP_21051_A_13826752	NC_021163.1	Ca_Kabuli_Chr04	13826752	GG	TT	TT	INTERGENIC		
SNP_21052_A_13832613	NC_021163.1	Ca_Kabuli_Chr04	13832613	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21053_A_13836146	NC_021163.1	Ca_Kabuli_Chr04	13836146	GG	TT	TT	DRR	101496754	protein TIME FOR COFFEE
SNP_21054_A_13846093	NC_021163.1	Ca_Kabuli_Chr04	13846093	AA	GG	GG	INTERGENIC		
SNP_21055_A_13846929	NC_021163.1	Ca_Kabuli_Chr04	13846929	AA	CC	CC	INTERGENIC		
SNP_21056_A_13848069	NC_021163.1	Ca_Kabuli_Chr04	13848069	AA	GG	GG	INTERGENIC		
SNP_21057_A_13848509	NC_021163.1	Ca_Kabuli_Chr04	13848509	CC	TT	TT	INTERGENIC		
SNP_21058_A_13848544	NC_021163.1	Ca_Kabuli_Chr04	13848544	TT	GG	GG	INTERGENIC		
SNP_21059_A_13851248	NC_021163.1	Ca_Kabuli_Chr04	13851248	AA	TT	TT	INTERGENIC		
SNP_21060_A_13853196	NC_021163.1	Ca_Kabuli_Chr04	13853196	GG	AA	AA	INTERGENIC		
SNP_21061_A_13858097	NC_021163.1	Ca_Kabuli_Chr04	13858097	AA	TT	TT	DRR	101497730	sugar transport protein 13-like
SNP_21062_A_13864849	NC_021163.1	Ca_Kabuli_Chr04	13864849	GG	AA	AA	INTERGENIC		
SNP_21063_A_13866985	NC_021163.1	Ca_Kabuli_Chr04	13866985	AA	TT	TT	INTRON	101498934	sugar transport protein 13-like
SNP_21066_A_13908943	NC_021163.1	Ca_Kabuli_Chr04	13908943	AA	GG	GG	INTERGENIC		
SNP_21067_A_13908979	NC_021163.1	Ca_Kabuli_Chr04	13908979	GG	TT	TT	INTERGENIC		
SNP_21068_A_13909246	NC_021163.1	Ca_Kabuli_Chr04	13909246	CC	TT	TT	INTERGENIC		
SNP_21070_A_13911299	NC_021163.1	Ca_Kabuli_Chr04	13911299	TT	CC	CC	INTERGENIC		
SNP_21071_A_13917600	NC_021163.1	Ca_Kabuli_Chr04	13917600	TT	GG	GG	INTERGENIC		
SNP_21072_A_13962641	NC_021163.1	Ca_Kabuli_Chr04	13962641	TT	GG	GG	URR	101502005	2-hydroxyisoflavanone dehydratase-like
SNP_21073_A_13962644	NC_021163.1	Ca_Kabuli_Chr04	13962644	AA	GG	GG	URR	101502005	2-hydroxyisoflavanone dehydratase-like
SNP_21075_A_14158353	NC_021163.1	Ca_Kabuli_Chr04	14158353	AA	GG	GG	INTERGENIC		
SNP_21076_A_14158660	NC_021163.1	Ca_Kabuli_Chr04	14158660	GG	AA	AA	INTERGENIC		
SNP_21078_A_14205049	NC_021163.1	Ca_Kabuli_Chr04	14205049	TT	AA	AA	INTERGENIC		
SNP_21079_A_14205054	NC_021163.1	Ca_Kabuli_Chr04	14205054	AA	CC	CC	INTERGENIC		

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SNP_21080_A_14205427	NC_021163.1	Ca_Kabuli_Chr04	14205427	AA	CC	CC	INTERGENIC			
SNP_21081_A_14205449	NC_021163.1	Ca_Kabuli_Chr04	14205449	GG	AA	AA	INTERGENIC			
SNP_21082_A_14260354	NC_021163.1	Ca_Kabuli_Chr04	14260354	TT	CC	CC	INTERGENIC			
SNP_21083_A_14271489	NC_021163.1	Ca_Kabuli_Chr04	14271489	TT	AA	AA	INTERGENIC			
SNP_21084_A_14271531	NC_021163.1	Ca_Kabuli_Chr04	14271531	TT	CC	CC	INTERGENIC			
SNP_21085_A_14271579	NC_021163.1	Ca_Kabuli_Chr04	14271579	TT	CC	CC	INTERGENIC			
SNP_21086_A_14271954	NC_021163.1	Ca_Kabuli_Chr04	14271954	TT	CC	CC	INTERGENIC			
SNP_21087_A_14271960	NC_021163.1	Ca_Kabuli_Chr04	14271960	AA	CC	CC	INTERGENIC			
SNP_21088_A_14271967	NC_021163.1	Ca_Kabuli_Chr04	14271967	CC	AA	AA	INTERGENIC			
SNP_21090_A_14329783	NC_021163.1	Ca_Kabuli_Chr04	14329783	GG	AA	AA	INTERGENIC			
SNP_21091_A_14329853	NC_021163.1	Ca_Kabuli_Chr04	14329853	AA	GG	GG	INTERGENIC			
SNP_21092_A_14329858	NC_021163.1	Ca_Kabuli_Chr04	14329858	CC	GG	GG	INTERGENIC			
SNP_21093_A_14329863	NC_021163.1	Ca_Kabuli_Chr04	14329863	TT	CC	CC	INTERGENIC			
SNP_21094_A_14329884	NC_021163.1	Ca_Kabuli_Chr04	14329884	AA	GG	GG	INTERGENIC			
SNP_21095_A_14329941	NC_021163.1	Ca_Kabuli_Chr04	14329941	TT	CC	CC	INTERGENIC			
SNP_21096_A_14330178	NC_021163.1	Ca_Kabuli_Chr04	14330178	TT	CC	CC	INTERGENIC			
SNP_21097_A_14330332	NC_021163.1	Ca_Kabuli_Chr04	14330332	AA	GG	GG	INTERGENIC			
SNP_21098_A_14330355	NC_021163.1	Ca_Kabuli_Chr04	14330355	AA	TT	TT	INTERGENIC			
SNP_21099_A_14330757	NC_021163.1	Ca_Kabuli_Chr04	14330757	GG	TT	TT	INTERGENIC			
SNP_21100_A_14383445	NC_021163.1	Ca_Kabuli_Chr04	14383445	AA	GG	GG	INTERGENIC			
SNP_21101_A_14383483	NC_021163.1	Ca_Kabuli_Chr04	14383483	AA	CC	CC	INTERGENIC			
SNP_21102_A_14392425	NC_021163.1	Ca_Kabuli_Chr04	14392425	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21103_A_14392645	NC_021163.1	Ca_Kabuli_Chr04	14392645	AA	TT	TT	INTERGENIC		
SNP_21104_A_14392669	NC_021163.1	Ca_Kabuli_Chr04	14392669	AA	GG	GG	INTERGENIC		
SNP_21105_A_14392703	NC_021163.1	Ca_Kabuli_Chr04	14392703	AA	GG	GG	INTERGENIC		
SNP_21106_A_14392721	NC_021163.1	Ca_Kabuli_Chr04	14392721	TT	GG	GG	INTERGENIC		
SNP_21108_A_14397378	NC_021163.1	Ca_Kabuli_Chr04	14397378	TT	CC	CC	INTERGENIC		
SNP_21109_A_14397507	NC_021163.1	Ca_Kabuli_Chr04	14397507	AA	CC	CC	INTERGENIC		
SNP_21110_A_14397570	NC_021163.1	Ca_Kabuli_Chr04	14397570	GG	AA	AA	INTERGENIC		
SNP_21111_A_14397591	NC_021163.1	Ca_Kabuli_Chr04	14397591	CC	TT	TT	INTERGENIC		
SNP_21112_A_14399173	NC_021163.1	Ca_Kabuli_Chr04	14399173	TT	CC	CC	INTERGENIC		
SNP_21113_A_14399444	NC_021163.1	Ca_Kabuli_Chr04	14399444	TT	GG	GG	INTERGENIC		
SNP_21114_A_14405509	NC_021163.1	Ca_Kabuli_Chr04	14405509	CC	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21115_A_14405514	NC_021163.1	Ca_Kabuli_Chr04	14405514	TT	GG	GG	DRR	101498167	amino acid permease 6-like
SNP_21116_A_14405577	NC_021163.1	Ca_Kabuli_Chr04	14405577	AA	GG	GG	DRR	101498167	amino acid permease 6-like
SNP_21117_A_14405593	NC_021163.1	Ca_Kabuli_Chr04	14405593	GG	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21118_A_14405603	NC_021163.1	Ca_Kabuli_Chr04	14405603	AA	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21119_A_14405699	NC_021163.1	Ca_Kabuli_Chr04	14405699	GG	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21120_A_14405707	NC_021163.1	Ca_Kabuli_Chr04	14405707	CC	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21121_A_14405722	NC_021163.1	Ca_Kabuli_Chr04	14405722	GG	AA	AA	DRR	101498167	amino acid permease 6-like
SNP_21123_A_14405819	NC_021163.1	Ca_Kabuli_Chr04	14405819	AA	GG	GG	DRR	101498167	amino acid permease 6-like
SNP_21124_A_14405826	NC_021163.1	Ca_Kabuli_Chr04	14405826	CC	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21125_A_14405834	NC_021163.1	Ca_Kabuli_Chr04	14405834	TT	CC	CC	DRR	101498167	amino acid permease 6-like
SNP_21126_A_14405862	NC_021163.1	Ca_Kabuli_Chr04	14405862	GG	AA	AA	DRR	101498167	amino acid permease 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21127_A_14405865	NC_021163.1	Ca_Kabuli_Chr04	14405865	GG	CC	CC	DRR	101498167	amino acid permease 6-like
SNP_21128_A_14406021	NC_021163.1	Ca_Kabuli_Chr04	14406021	AA	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21130_A_14406059	NC_021163.1	Ca_Kabuli_Chr04	14406059	TT	AA	AA	DRR	101498167	amino acid permease 6-like
SNP_21131_A_14406071	NC_021163.1	Ca_Kabuli_Chr04	14406071	TT	CC	CC	DRR	101498167	amino acid permease 6-like
SNP_21132_A_14406085	NC_021163.1	Ca_Kabuli_Chr04	14406085	AA	TT	TT	DRR	101498167	amino acid permease 6-like
SNP_21133_A_14406101	NC_021163.1	Ca_Kabuli_Chr04	14406101	TT	CC	CC	DRR	101498167	amino acid permease 6-like
SNP_21134_A_14406116	NC_021163.1	Ca_Kabuli_Chr04	14406116	TT	CC	CC	DRR	101498167	amino acid permease 6-like
SNP_21136_A_14406143	NC_021163.1	Ca_Kabuli_Chr04	14406143	TT	GG	GG	DRR	101498167	amino acid permease 6-like
SNP_21137_A_14406166	NC_021163.1	Ca_Kabuli_Chr04	14406166	GG	AA	AA	DRR	101498167	amino acid permease 6-like
SNP_21138_A_14406185	NC_021163.1	Ca_Kabuli_Chr04	14406185	GG	AA	AA	DRR	101498167	amino acid permease 6-like
SNP_21139_A_14406220	NC_021163.1	Ca_Kabuli_Chr04	14406220	AA	TT	TT	NON_SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21140_A_14406221	NC_021163.1	Ca_Kabuli_Chr04	14406221	GG	AA	AA	NON_SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21141_A_14406243	NC_021163.1	Ca_Kabuli_Chr04	14406243	GG	AA	AA	SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21142_A_14406276	NC_021163.1	Ca_Kabuli_Chr04	14406276	TT	AA	AA	SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21143_A_14406277	NC_021163.1	Ca_Kabuli_Chr04	14406277	CC	GG	GG	NON_SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21144_A_14406348	NC_021163.1	Ca_Kabuli_Chr04	14406348	TT	GG	GG	SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21145_A_14406395	NC_021163.1	Ca_Kabuli_Chr04	14406395	TT	AA	AA	NON_SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21146_A_14406422	NC_021163.1	Ca_Kabuli_Chr04	14406422	AA	CC	CC	NON_SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21147_A_14406528	NC_021163.1	Ca_Kabuli_Chr04	14406528	CC	TT	TT	SYNONYMOUS_CODING	101498167	amino acid permease 6-like
SNP_21149_A_14421622	NC_021163.1	Ca_Kabuli_Chr04	14421622	AA	TT	TT	INTERGENIC		
SNP_21150_A_14421887	NC_021163.1	Ca_Kabuli_Chr04	14421887	AA	GG	GG	INTERGENIC		
SNP_21151_A_14422154	NC_021163.1	Ca_Kabuli_Chr04	14422154	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21152_A_14422166	NC_021163.1	Ca_Kabuli_Chr04	14422166	TT	CC	CC	INTERGENIC		
SNP_21153_A_14422183	NC_021163.1	Ca_Kabuli_Chr04	14422183	CC	GG	GG	INTERGENIC		
SNP_21154_A_14422218	NC_021163.1	Ca_Kabuli_Chr04	14422218	CC	TT	TT	INTERGENIC		
SNP_21155_A_14423894	NC_021163.1	Ca_Kabuli_Chr04	14423894	TT	GG	GG	INTERGENIC		
SNP_21156_A_14491093	NC_021163.1	Ca_Kabuli_Chr04	14491093	AA	CC	CC	INTERGENIC		
SNP_21157_A_14491627	NC_021163.1	Ca_Kabuli_Chr04	14491627	CC	TT	TT	INTERGENIC		
SNP_21158_A_14556421	NC_021163.1	Ca_Kabuli_Chr04	14556421	TT	GG	GG	INTERGENIC		
SNP_21159_A_14556477	NC_021163.1	Ca_Kabuli_Chr04	14556477	TT	CC	CC	INTERGENIC		
SNP_21160_A_14556489	NC_021163.1	Ca_Kabuli_Chr04	14556489	AA	GG	GG	INTERGENIC		
SNP_21161_A_14558233	NC_021163.1	Ca_Kabuli_Chr04	14558233	GG	AA	AA	DRR	101490385	pre-mRNA-splicing factor 38B-like
SNP_21163_A_14794020	NC_021163.1	Ca_Kabuli_Chr04	14794020	TT	CC	CC	INTERGENIC		
SNP_21164_A_14794101	NC_021163.1	Ca_Kabuli_Chr04	14794101	AA	GG	GG	INTERGENIC		
SNP_21165_A_14794117	NC_021163.1	Ca_Kabuli_Chr04	14794117	AA	GG	GG	INTERGENIC		
SNP_21166_A_14839359	NC_021163.1	Ca_Kabuli_Chr04	14839359	AA	GG	GG	SYNONYMOUS_CODING	101504366	alpha-L-fucosidase 2
SNP_21167_A_14846175	NC_021163.1	Ca_Kabuli_Chr04	14846175	TT	CC	CC	URR	101504366	alpha-L-fucosidase 2
SNP_21168_A_14867416	NC_021163.1	Ca_Kabuli_Chr04	14867416	TT	CC	CC	INTERGENIC		
SNP_21169_A_14911719	NC_021163.1	Ca_Kabuli_Chr04	14911719	TT	AA	AA	URR	101508446	limonoid UDP-glucosyltransferase
SNP_21170_A_14911774	NC_021163.1	Ca_Kabuli_Chr04	14911774	CC	AA	AA	URR	101508446	limonoid UDP-glucosyltransferase
SNP_21171_A_14911845	NC_021163.1	Ca_Kabuli_Chr04	14911845	AA	CC	CC	URR	101508446	limonoid UDP-glucosyltransferase
SNP_21172_A_14932690	NC_021163.1	Ca_Kabuli_Chr04	14932690	AA	GG	GG	INTERGENIC		
SNP_21173_A_14932838	NC_021163.1	Ca_Kabuli_Chr04	14932838	CC	AA	AA	INTERGENIC		
SNP_21175_A_14933063	NC_021163.1	Ca_Kabuli_Chr04	14933063	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_21176_A_14939010	NC_021163.1	Ca_Kabuli_Chr04	14939010	AA	TT	TT	INTERGENIC			
SNP_21177_A_14939011	NC_021163.1	Ca_Kabuli_Chr04	14939011	AA	TT	TT	INTERGENIC			
SNP_21179_A_14999768	NC_021163.1	Ca_Kabuli_Chr04	14999768	CC	TT	TT	INTERGENIC			
SNP_21180_A_14999899	NC_021163.1	Ca_Kabuli_Chr04	14999899	TT	CC	CC	INTERGENIC			
SNP_21181_A_15000059	NC_021163.1	Ca_Kabuli_Chr04	15000059	AA	TT	TT	INTERGENIC			
SNP_21182_A_15000240	NC_021163.1	Ca_Kabuli_Chr04	15000240	AA	GG	GG	INTERGENIC			
SNP_21183_A_15004610	NC_021163.1	Ca_Kabuli_Chr04	15004610	TT	CC	CC	INTERGENIC			
SNP_21184_A_15004759	NC_021163.1	Ca_Kabuli_Chr04	15004759	TT	GG	GG	INTERGENIC			
SNP_21185_A_15004797	NC_021163.1	Ca_Kabuli_Chr04	15004797	TT	CC	CC	INTERGENIC			
SNP_21186_A_15004920	NC_021163.1	Ca_Kabuli_Chr04	15004920	AA	GG	GG	INTERGENIC			
SNP_21187_A_15005007	NC_021163.1	Ca_Kabuli_Chr04	15005007	CC	AA	AA	INTERGENIC			
SNP_21188_A_15005027	NC_021163.1	Ca_Kabuli_Chr04	15005027	TT	CC	CC	INTERGENIC			
SNP_21190_A_15013576	NC_021163.1	Ca_Kabuli_Chr04	15013576	TT	CC	CC	DRR	101513477	D-3-phosphoglycerate dehydrogenase 1, chloroplastic	
SNP_21191_A_15018038	NC_021163.1	Ca_Kabuli_Chr04	15018038	TT	GG	GG	INTRON	101513477	D-3-phosphoglycerate dehydrogenase 1, chloroplastic	
SNP_21193_A_15048106	NC_021163.1	Ca_Kabuli_Chr04	15048106	TT	AA	AA	INTERGENIC			
SNP_21194_A_15048121	NC_021163.1	Ca_Kabuli_Chr04	15048121	AA	CC	CC	INTERGENIC			
SNP_21195_A_15048137	NC_021163.1	Ca_Kabuli_Chr04	15048137	AA	TT	TT	INTERGENIC			
SNP_21196_A_15048142	NC_021163.1	Ca_Kabuli_Chr04	15048142	AA	CC	CC	INTERGENIC			
SNP_21198_A_15048218	NC_021163.1	Ca_Kabuli_Chr04	15048218	TT	AA	AA	INTERGENIC			
SNP_21199_A_15056944	NC_021163.1	Ca_Kabuli_Chr04	15056944	GG	AA	AA	INTERGENIC			
SNP_21200_A_15080966	NC_021163.1	Ca_Kabuli_Chr04	15080966	GG	CC	CC	INTERGENIC			
SNP_21201_A_15081007	NC_021163.1	Ca_Kabuli_Chr04	15081007	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21202_A_15081062	NC_021163.1	Ca_Kabuli_Chr04	15081062	TT	AA	AA	INTERGENIC		
SNP_21203_A_15081144	NC_021163.1	Ca_Kabuli_Chr04	15081144	GG	TT	TT	INTERGENIC		
SNP_21204_A_15095608	NC_021163.1	Ca_Kabuli_Chr04	15095608	AA	TT	TT	DRR	101488300	cyclin-D3-1
SNP_21205_A_15118226	NC_021163.1	Ca_Kabuli_Chr04	15118226	TT	CC	CC	INTERGENIC		
SNP_21206_A_15118778	NC_021163.1	Ca_Kabuli_Chr04	15118778	AA	TT	TT	INTERGENIC		
SNP_21207_A_15119207	NC_021163.1	Ca_Kabuli_Chr04	15119207	TT	GG	GG	INTERGENIC		
SNP_21208_A_15153847	NC_021163.1	Ca_Kabuli_Chr04	15153847	CC	TT	TT	INTERGENIC		
SNP_21209_A_15170782	NC_021163.1	Ca_Kabuli_Chr04	15170782	AA	GG	GG	INTERGENIC		
SNP_21210_A_15170850	NC_021163.1	Ca_Kabuli_Chr04	15170850	CC	TT	TT	INTERGENIC		
SNP_21211_A_15181183	NC_021163.1	Ca_Kabuli_Chr04	15181183	AA	GG	GG	URR	101492311	xylosyltransferase 1
SNP_21212_A_15208564	NC_021163.1	Ca_Kabuli_Chr04	15208564	AA	GG	GG	INTERGENIC		
SNP_21213_A_15208578	NC_021163.1	Ca_Kabuli_Chr04	15208578	AA	TT	TT	INTERGENIC		
SNP_21214_A_15208600	NC_021163.1	Ca_Kabuli_Chr04	15208600	CC	GG	GG	INTERGENIC		
SNP_21215_A_15212771	NC_021163.1	Ca_Kabuli_Chr04	15212771	CC	AA	AA	INTERGENIC		
SNP_21218_A_15225364	NC_021163.1	Ca_Kabuli_Chr04	15225364	AA	GG	GG	INTERGENIC		
SNP_21219_A_15227885	NC_021163.1	Ca_Kabuli_Chr04	15227885	TT	GG	GG	INTERGENIC		
SNP_21220_A_15241807	NC_021163.1	Ca_Kabuli_Chr04	15241807	CC	GG	GG	INTERGENIC		
SNP_21221_A_15252476	NC_021163.1	Ca_Kabuli_Chr04	15252476	GG	AA	AA	INTERGENIC		
SNP_21223_A_15256000	NC_021163.1	Ca_Kabuli_Chr04	15256000	GG	AA	AA	INTERGENIC		
SNP_21224_A_15265863	NC_021163.1	Ca_Kabuli_Chr04	15265863	CC	TT	TT	INTERGENIC		
SNP_21226_A_15292097	NC_021163.1	Ca_Kabuli_Chr04	15292097	AA	GG	GG	INTERGENIC		
SNP_21227_A_15330046	NC_021163.1	Ca_Kabuli_Chr04	15330046	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_21228_A_15333258	NC_021163.1	Ca_Kabuli_Chr04	15333258	TT	CC	CC	INTERGENIC			
SNP_21229_A_15333300	NC_021163.1	Ca_Kabuli_Chr04	15333300	AA	GG	GG	INTERGENIC			
SNP_21230_A_15333325	NC_021163.1	Ca_Kabuli_Chr04	15333325	CC	TT	TT	INTERGENIC			
SNP_21231_A_15333354	NC_021163.1	Ca_Kabuli_Chr04	15333354	GG	AA	AA	INTERGENIC			
SNP_21232_A_15333356	NC_021163.1	Ca_Kabuli_Chr04	15333356	TT	CC	CC	INTERGENIC			
SNP_21233_A_15333426	NC_021163.1	Ca_Kabuli_Chr04	15333426	TT	GG	GG	INTERGENIC			
SNP_21236_A_15484695	NC_021163.1	Ca_Kabuli_Chr04	15484695	GG	CC	CC	INTERGENIC			
SNP_21237_A_15494879	NC_021163.1	Ca_Kabuli_Chr04	15494879	CC	TT	TT	URR	101504592	E3 ubiquitin-protein ligase RHA2A	
SNP_21238_A_15495179	NC_021163.1	Ca_Kabuli_Chr04	15495179	AA	GG	GG	URR	101504592	E3 ubiquitin-protein ligase RHA2A	
SNP_21239_A_15573144	NC_021163.1	Ca_Kabuli_Chr04	15573144	TT	AA	AA	INTERGENIC			
SNP_21240_A_15595799	NC_021163.1	Ca_Kabuli_Chr04	15595799	AA	CC	CC	INTERGENIC			
SNP_21241_A_15632684	NC_021163.1	Ca_Kabuli_Chr04	15632684	TT	GG	GG	INTERGENIC			
SNP_21242_A_15632697	NC_021163.1	Ca_Kabuli_Chr04	15632697	TT	CC	CC	INTERGENIC			
SNP_21244_A_15690834	NC_021163.1	Ca_Kabuli_Chr04	15690834	TT	CC	CC	INTERGENIC			
SNP_21245_A_15698212	NC_021163.1	Ca_Kabuli_Chr04	15698212	GG	TT	TT	URR	101509934	putative uncharacterized protein DDB_G0291608	
SNP_21246_A_15742506	NC_021163.1	Ca_Kabuli_Chr04	15742506	CC	AA	AA	INTERGENIC			
SNP_21247_A_15768782	NC_021163.1	Ca_Kabuli_Chr04	15768782	AA	GG	GG	INTERGENIC			
SNP_21248_A_15788493	NC_021163.1	Ca_Kabuli_Chr04	15788493	GG	AA	AA	INTERGENIC			
SNP_21249_A_15788495	NC_021163.1	Ca_Kabuli_Chr04	15788495	GG	CC	CC	INTERGENIC			
SNP_21250_A_15788519	NC_021163.1	Ca_Kabuli_Chr04	15788519	TT	CC	CC	INTERGENIC			
SNP_21251_A_15788718	NC_021163.1	Ca_Kabuli_Chr04	15788718	GG	TT	TT	INTERGENIC			
SNP_21252_A_15788721	NC_021163.1	Ca_Kabuli_Chr04	15788721	TT	CC	CC	INTERGENIC			

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SNP_21253_A_15797728	NC_021163.1	Ca_Kabuli_Chr04	15797728	TT	GG	GG	URR	101514681	uncharacterized LOC101514681
SNP_21254_A_15817059	NC_021163.1	Ca_Kabuli_Chr04	15817059	TT	CC	CC	INTERGENIC		
SNP_21255_A_15879275	NC_021163.1	Ca_Kabuli_Chr04	15879275	TT	CC	CC	URR	101489079	probable serine/threonine-protein kinase At1g18390
SNP_21256_A_15881411	NC_021163.1	Ca_Kabuli_Chr04	15881411	CC	TT	TT	URR	101489412	uncharacterized LOC101489412
SNP_21257_A_15882577	NC_021163.1	Ca_Kabuli_Chr04	15882577	CC	TT	TT	URR	101489412	uncharacterized LOC101489412
SNP_21258_A_15882603	NC_021163.1	Ca_Kabuli_Chr04	15882603	AA	TT	TT	URR	101489412	uncharacterized LOC101489412
SNP_21259_A_15882647	NC_021163.1	Ca_Kabuli_Chr04	15882647	TT	CC	CC	URR	101489412	uncharacterized LOC101489412
SNP_21260_A_15884141	NC_021163.1	Ca_Kabuli_Chr04	15884141	AA	GG	GG	INTERGENIC		
SNP_21261_A_15885448	NC_021163.1	Ca_Kabuli_Chr04	15885448	AA	GG	GG	INTERGENIC		
SNP_21262_A_15885474	NC_021163.1	Ca_Kabuli_Chr04	15885474	AA	GG	GG	INTERGENIC		
SNP_21263_A_15891755	NC_021163.1	Ca_Kabuli_Chr04	15891755	CC	TT	TT	INTERGENIC		
SNP_21264_A_15891929	NC_021163.1	Ca_Kabuli_Chr04	15891929	GG	AA	AA	INTERGENIC		
SNP_21267_A_15897808	NC_021163.1	Ca_Kabuli_Chr04	15897808	CC	AA	AA	INTERGENIC		
SNP_21268_A_15897821	NC_021163.1	Ca_Kabuli_Chr04	15897821	TT	CC	CC	INTERGENIC		
SNP_21269_A_15897860	NC_021163.1	Ca_Kabuli_Chr04	15897860	GG	CC	CC	INTERGENIC		
SNP_21271_A_15898298	NC_021163.1	Ca_Kabuli_Chr04	15898298	TT	AA	AA	INTERGENIC		
SNP_21272_A_15899215	NC_021163.1	Ca_Kabuli_Chr04	15899215	CC	TT	TT	DRR	101489732	probable protein phosphatase 2C 15
SNP_21273_A_15903249	NC_021163.1	Ca_Kabuli_Chr04	15903249	CC	TT	TT	SYNONYMOUS_CODING	101489732	probable protein phosphatase 2C 15
SNP_21274_A_15907128	NC_021163.1	Ca_Kabuli_Chr04	15907128	TT	CC	CC	URR	101490487	probable receptor-like protein kinase At1g67000
SNP_21275_A_15907742	NC_021163.1	Ca_Kabuli_Chr04	15907742	AA	TT	TT	URR	101490487	probable receptor-like protein kinase At1g67000
SNP_21276_A_15908715	NC_021163.1	Ca_Kabuli_Chr04	15908715	CC	AA	AA	DRR	101505872	probable receptor-like protein kinase At1g67000
SNP_21277_A_15908767	NC_021163.1	Ca_Kabuli_Chr04	15908767	AA	TT	TT	DRR	101505872	probable receptor-like protein kinase At1g67000

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SNP_21278_A_15911641	NC_021163.1	Ca_Kabuli_Chr04	15911641	TT	AA	AA	INTERGENIC		
SNP_21279_A_15911895	NC_021163.1	Ca_Kabuli_Chr04	15911895	CC	AA	AA	NON_SYNONYMOUS_CODING	101505872	probable receptor-like protein kinase At1g67000
SNP_21280_A_15914644	NC_021163.1	Ca_Kabuli_Chr04	15914644	CC	TT	TT	URR	101505872	probable receptor-like protein kinase At1g67000
SNP_21281_A_15916802	NC_021163.1	Ca_Kabuli_Chr04	15916802	GG	AA	AA	INTERGENIC		
SNP_21282_A_15917102	NC_021163.1	Ca_Kabuli_Chr04	15917102	GG	CC	CC	INTERGENIC		
SNP_21283_A_15919986	NC_021163.1	Ca_Kabuli_Chr04	15919986	CC	TT	TT	INTERGENIC		
SNP_21284_A_15921270	NC_021163.1	Ca_Kabuli_Chr04	15921270	GG	AA	AA	DRR	101490811	uncharacterized LOC101490811
SNP_21285_A_15923944	NC_021163.1	Ca_Kabuli_Chr04	15923944	CC	GG	GG	URR	101490811	uncharacterized LOC101490811
SNP_21288_A_15932740	NC_021163.1	Ca_Kabuli_Chr04	15932740	GG	AA	AA	INTRON	101491135	uncharacterized LOC101491135
SNP_21289_A_15932744	NC_021163.1	Ca_Kabuli_Chr04	15932744	CC	TT	TT	INTRON	101491135	uncharacterized LOC101491135
SNP_21290_A_15935131	NC_021163.1	Ca_Kabuli_Chr04	15935131	GG	AA	AA	URR	101491135	uncharacterized LOC101491135
SNP_21291_A_15935398	NC_021163.1	Ca_Kabuli_Chr04	15935398	CC	TT	TT	URR	101491135	uncharacterized LOC101491135
SNP_21292_A_15935863	NC_021163.1	Ca_Kabuli_Chr04	15935863	CC	GG	GG	URR	101491135	uncharacterized LOC101491135
SNP_21293_A_15936134	NC_021163.1	Ca_Kabuli_Chr04	15936134	CC	TT	TT	URR	101491135	uncharacterized LOC101491135
SNP_21294_A_15936145	NC_021163.1	Ca_Kabuli_Chr04	15936145	AA	GG	GG	URR	101491135	uncharacterized LOC101491135
SNP_21295_A_15938274	NC_021163.1	Ca_Kabuli_Chr04	15938274	AA	GG	GG	INTERGENIC		
SNP_21296_A_15938371	NC_021163.1	Ca_Kabuli_Chr04	15938371	CC	GG	GG	INTERGENIC		
SNP_21297_A_15938971	NC_021163.1	Ca_Kabuli_Chr04	15938971	AA	TT	TT	DRR	101491667	chaperone protein dnaJ 15
SNP_21298_A_15938973	NC_021163.1	Ca_Kabuli_Chr04	15938973	AA	TT	TT	DRR	101491667	chaperone protein dnaJ 15
SNP_21300_A_15939130	NC_021163.1	Ca_Kabuli_Chr04	15939130	CC	AA	AA	DRR	101491667	chaperone protein dnaJ 15
SNP_21301_A_15942084	NC_021163.1	Ca_Kabuli_Chr04	15942084	AA	GG	GG	SYNONYMOUS_CODING	101491667	chaperone protein dnaJ 15
SNP_21303_A_15949506	NC_021163.1	Ca_Kabuli_Chr04	15949506	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_21304_A_15950473	NC_021163.1	Ca_Kabuli_Chr04	15950473	TT	CC	CC	INTERGENIC			
SNP_21305_A_15950476	NC_021163.1	Ca_Kabuli_Chr04	15950476	CC	GG	GG	INTERGENIC			
SNP_21307_A_15950817	NC_021163.1	Ca_Kabuli_Chr04	15950817	CC	TT	TT	INTERGENIC			
SNP_21308_A_15954328	NC_021163.1	Ca_Kabuli_Chr04	15954328	CC	TT	TT	INTERGENIC			
SNP_21309_A_15954336	NC_021163.1	Ca_Kabuli_Chr04	15954336	GG	AA	AA	INTERGENIC			
SNP_21310_A_15959936	NC_021163.1	Ca_Kabuli_Chr04	15959936	CC	TT	TT	INTERGENIC			
SNP_21311_A_15962521	NC_021163.1	Ca_Kabuli_Chr04	15962521	CC	TT	TT	INTERGENIC			
SNP_21312_A_15962552	NC_021163.1	Ca_Kabuli_Chr04	15962552	AA	GG	GG	INTERGENIC			
SNP_21314_A_15964401	NC_021163.1	Ca_Kabuli_Chr04	15964401	GG	AA	AA	INTERGENIC			
SNP_21315_A_15966468	NC_021163.1	Ca_Kabuli_Chr04	15966468	GG	AA	AA	INTERGENIC			
SNP_21316_A_15966513	NC_021163.1	Ca_Kabuli_Chr04	15966513	TT	AA	AA	INTERGENIC			
SNP_21317_A_15966550	NC_021163.1	Ca_Kabuli_Chr04	15966550	GG	AA	AA	INTERGENIC			
SNP_21318_A_15966571	NC_021163.1	Ca_Kabuli_Chr04	15966571	TT	AA	AA	INTERGENIC			
SNP_21320_A_15972105	NC_021163.1	Ca_Kabuli_Chr04	15972105	GG	CC	CC	INTRON	101492312		cysteine-tRNA ligase, cytoplasmic
SNP_21321_A_15974840	NC_021163.1	Ca_Kabuli_Chr04	15974840	CC	AA	AA	URR	101492312		cysteine-tRNA ligase, cytoplasmic
SNP_21323_A_15984353	NC_021163.1	Ca_Kabuli_Chr04	15984353	AA	TT	TT	INTERGENIC			
SNP_21324_A_15985167	NC_021163.1	Ca_Kabuli_Chr04	15985167	TT	CC	CC	INTERGENIC			
SNP_21325_A_15996519	NC_021163.1	Ca_Kabuli_Chr04	15996519	TT	CC	CC	INTERGENIC			
SNP_21326_A_15996977	NC_021163.1	Ca_Kabuli_Chr04	15996977	GG	TT	TT	INTERGENIC			
SNP_21327_A_15997317	NC_021163.1	Ca_Kabuli_Chr04	15997317	GG	TT	TT	INTERGENIC			
SNP_21328_A_16000624	NC_021163.1	Ca_Kabuli_Chr04	16000624	TT	CC	CC	INTERGENIC			
SNP_21330_A_16000645	NC_021163.1	Ca_Kabuli_Chr04	16000645	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21331_A_16024871	NC_021163.1	Ca_Kabuli_Chr04	16024871	CC	AA	AA	INTERGENIC		
SNP_21332_A_16025144	NC_021163.1	Ca_Kabuli_Chr04	16025144	TT	CC	CC	DRR	101493197	BI1-like protein
SNP_21333_A_16025404	NC_021163.1	Ca_Kabuli_Chr04	16025404	GG	AA	AA	DRR	101493197	BI1-like protein
SNP_21334_A_16025436	NC_021163.1	Ca_Kabuli_Chr04	16025436	CC	TT	TT	DRR	101493197	BI1-like protein
SNP_21335_A_16025469	NC_021163.1	Ca_Kabuli_Chr04	16025469	TT	CC	CC	DRR	101493197	BI1-like protein
SNP_21336_A_16025477	NC_021163.1	Ca_Kabuli_Chr04	16025477	AA	GG	GG	DRR	101493197	BI1-like protein
SNP_21337_A_16025878	NC_021163.1	Ca_Kabuli_Chr04	16025878	GG	CC	CC	DRR	101493197	BI1-like protein
SNP_21338_A_16025879	NC_021163.1	Ca_Kabuli_Chr04	16025879	CC	TT	TT	DRR	101493197	BI1-like protein
SNP_21339_A_16025882	NC_021163.1	Ca_Kabuli_Chr04	16025882	CC	AA	AA	DRR	101493197	BI1-like protein
SNP_21340_A_16026131	NC_021163.1	Ca_Kabuli_Chr04	16026131	AA	GG	GG	DRR	101493197	BI1-like protein
SNP_21341_A_16026157	NC_021163.1	Ca_Kabuli_Chr04	16026157	CC	TT	TT	DRR	101493197	BI1-like protein
SNP_21343_A_16027959	NC_021163.1	Ca_Kabuli_Chr04	16027959	GG	AA	AA	URR	101493197	BI1-like protein
SNP_21344_A_16028165	NC_021163.1	Ca_Kabuli_Chr04	16028165	CC	TT	TT	URR	101493197	BI1-like protein
SNP_21345_A_16028227	NC_021163.1	Ca_Kabuli_Chr04	16028227	AA	GG	GG	URR	101493197	BI1-like protein
SNP_21347_A_16030701	NC_021163.1	Ca_Kabuli_Chr04	16030701	CC	TT	TT	INTERGENIC		
SNP_21348_A_16030738	NC_021163.1	Ca_Kabuli_Chr04	16030738	TT	AA	AA	INTERGENIC		
SNP_21349_A_16030861	NC_021163.1	Ca_Kabuli_Chr04	16030861	GG	AA	AA	INTERGENIC		
SNP_21350_A_16030878	NC_021163.1	Ca_Kabuli_Chr04	16030878	AA	GG	GG	INTERGENIC		
SNP_21351_A_16031556	NC_021163.1	Ca_Kabuli_Chr04	16031556	TT	CC	CC	DRR	101506517	uncharacterized LOC101506517
SNP_21352_A_16031557	NC_021163.1	Ca_Kabuli_Chr04	16031557	CC	GG	GG	DRR	101506517	uncharacterized LOC101506517
SNP_21353_A_16031562	NC_021163.1	Ca_Kabuli_Chr04	16031562	CC	AA	AA	DRR	101506517	uncharacterized LOC101506517
SNP_21354_A_16031593	NC_021163.1	Ca_Kabuli_Chr04	16031593	TT	GG	GG	DRR	101506517	uncharacterized LOC101506517

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21355_A_16032788	NC_021163.1	Ca_Kabuli_Chr04	16032788	AA	GG	GG	URR	101506517	uncharacterized LOC101506517
SNP_21356_A_16042155	NC_021163.1	Ca_Kabuli_Chr04	16042155	GG	AA	AA	INTERGENIC		
SNP_21357_A_16044240	NC_021163.1	Ca_Kabuli_Chr04	16044240	GG	AA	AA	DRR	101493829	glutamine-tRNA ligase
SNP_21358_A_16045510	NC_021163.1	Ca_Kabuli_Chr04	16045510	GG	AA	AA	INTRON	101493829	glutamine-tRNA ligase
SNP_21359_A_16045526	NC_021163.1	Ca_Kabuli_Chr04	16045526	CC	GG	GG	INTRON	101493829	glutamine-tRNA ligase
SNP_21360_A_16046081	NC_021163.1	Ca_Kabuli_Chr04	16046081	GG	AA	AA	INTRON	101493829	glutamine-tRNA ligase
SNP_21362_A_16053803	NC_021163.1	Ca_Kabuli_Chr04	16053803	TT	CC	CC	SPLICE_SITE_REGION	101493829	glutamine-tRNA ligase
SNP_21363_A_16054666	NC_021163.1	Ca_Kabuli_Chr04	16054666	CC	GG	GG	URR	101493829	glutamine-tRNA ligase
SNP_21364_A_16056205	NC_021163.1	Ca_Kabuli_Chr04	16056205	CC	TT	TT	INTERGENIC		
SNP_21365_A_16056687	NC_021163.1	Ca_Kabuli_Chr04	16056687	CC	TT	TT	INTERGENIC		
SNP_21366_A_16058824	NC_021163.1	Ca_Kabuli_Chr04	16058824	AA	GG	GG	INTERGENIC		
SNP_21367_A_16058827	NC_021163.1	Ca_Kabuli_Chr04	16058827	CC	GG	GG	INTERGENIC		
SNP_21368_A_16060358	NC_021163.1	Ca_Kabuli_Chr04	16060358	AA	TT	TT	INTERGENIC		
SNP_21369_A_16064570	NC_021163.1	Ca_Kabuli_Chr04	16064570	TT	AA	AA	URR	101494157	transcription factor MYB24-like
SNP_21372_A_16067407	NC_021163.1	Ca_Kabuli_Chr04	16067407	TT	AA	AA	INTERGENIC		
SNP_21373_A_16067422	NC_021163.1	Ca_Kabuli_Chr04	16067422	AA	GG	GG	INTERGENIC		
SNP_21374_A_16067484	NC_021163.1	Ca_Kabuli_Chr04	16067484	GG	AA	AA	INTERGENIC		
SNP_21375_A_16072597	NC_021163.1	Ca_Kabuli_Chr04	16072597	AA	TT	TT	DRR	101494464	uncharacterized LOC101494464
SNP_21376_A_16074580	NC_021163.1	Ca_Kabuli_Chr04	16074580	AA	CC	CC	INTERGENIC		
SNP_21377_A_16079762	NC_021163.1	Ca_Kabuli_Chr04	16079762	AA	CC	CC	URR	101495224	endonuclease 2
SNP_21379_A_16084056	NC_021163.1	Ca_Kabuli_Chr04	16084056	TT	CC	CC	INTERGENIC		
SNP_21380_A_16088500	NC_021163.1	Ca_Kabuli_Chr04	16088500	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21381_A_16088814	NC_021163.1	Ca_Kabuli_Chr04	16088814	AA	CC	CC	INTERGENIC		
SNP_21382_A_16089633	NC_021163.1	Ca_Kabuli_Chr04	16089633	CC	TT	TT	INTERGENIC		
SNP_21383_A_16089712	NC_021163.1	Ca_Kabuli_Chr04	16089712	GG	TT	TT	INTERGENIC		
SNP_21384_A_16090010	NC_021163.1	Ca_Kabuli_Chr04	16090010	CC	AA	AA	INTERGENIC		
SNP_21387_A_16095961	NC_021163.1	Ca_Kabuli_Chr04	16095961	GG	TT	TT	DRR	101495542	uncharacterized LOC101495542
SNP_21388_A_16095989	NC_021163.1	Ca_Kabuli_Chr04	16095989	CC	TT	TT	DRR	101495542	uncharacterized LOC101495542
SNP_21389_A_16098897	NC_021163.1	Ca_Kabuli_Chr04	16098897	GG	AA	AA	URR	101495542	uncharacterized LOC101495542
SNP_21390_A_16098933	NC_021163.1	Ca_Kabuli_Chr04	16098933	CC	TT	TT	URR	101495542	uncharacterized LOC101495542
SNP_21391_A_16098986	NC_021163.1	Ca_Kabuli_Chr04	16098986	CC	TT	TT	URR	101495542	uncharacterized LOC101495542
SNP_21392_A_16098989	NC_021163.1	Ca_Kabuli_Chr04	16098989	AA	GG	GG	URR	101495542	uncharacterized LOC101495542
SNP_21393_A_16098993	NC_021163.1	Ca_Kabuli_Chr04	16098993	CC	TT	TT	URR	101495542	uncharacterized LOC101495542
SNP_21394_A_16098996	NC_021163.1	Ca_Kabuli_Chr04	16098996	TT	AA	AA	URR	101495542	uncharacterized LOC101495542
SNP_21395_A_16099398	NC_021163.1	Ca_Kabuli_Chr04	16099398	TT	AA	AA	URR	101495542	uncharacterized LOC101495542
SNP_21396_A_16099450	NC_021163.1	Ca_Kabuli_Chr04	16099450	TT	AA	AA	URR	101495542	uncharacterized LOC101495542
SNP_21397_A_16100038	NC_021163.1	Ca_Kabuli_Chr04	16100038	GG	AA	AA	INTERGENIC		
SNP_21398_A_16100067	NC_021163.1	Ca_Kabuli_Chr04	16100067	AA	CC	CC	INTERGENIC		
SNP_21399_A_16100071	NC_021163.1	Ca_Kabuli_Chr04	16100071	TT	AA	AA	INTERGENIC		
SNP_21400_A_16100319	NC_021163.1	Ca_Kabuli_Chr04	16100319	CC	AA	AA	INTERGENIC		
SNP_21401_A_16101725	NC_021163.1	Ca_Kabuli_Chr04	16101725	TT	CC	CC	INTERGENIC		
SNP_21402_A_16101780	NC_021163.1	Ca_Kabuli_Chr04	16101780	AA	TT	TT	INTERGENIC		
SNP_21403_A_16103361	NC_021163.1	Ca_Kabuli_Chr04	16103361	CC	AA	AA	DRR	101495872	VQ motif-containing protein 8, chloroplastic
SNP_21405_A_16120815	NC_021163.1	Ca_Kabuli_Chr04	16120815	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21406_A_16121119	NC_021163.1	Ca_Kabuli_Chr04	16121119	TT	CC	CC	INTERGENIC		
SNP_21407_A_16131259	NC_021163.1	Ca_Kabuli_Chr04	16131259	CC	TT	TT	INTERGENIC		
SNP_21409_A_16158002	NC_021163.1	Ca_Kabuli_Chr04	16158002	GG	AA	AA	INTERGENIC		
SNP_21410_A_16160780	NC_021163.1	Ca_Kabuli_Chr04	16160780	GG	AA	AA	INTERGENIC		
SNP_21411_A_16164843	NC_021163.1	Ca_Kabuli_Chr04	16164843	TT	CC	CC	INTERGENIC		
SNP_21412_A_16186679	NC_021163.1	Ca_Kabuli_Chr04	16186679	TT	CC	CC	URR	101497733	IST1 homolog
SNP_21413_A_16186691	NC_021163.1	Ca_Kabuli_Chr04	16186691	TT	AA	AA	URR	101497733	IST1 homolog
SNP_21414_A_16186693	NC_021163.1	Ca_Kabuli_Chr04	16186693	AA	GG	GG	URR	101497733	IST1 homolog
SNP_21418_A_16352323	NC_021163.1	Ca_Kabuli_Chr04	16352323	CC	TT	TT	INTERGENIC		
SNP_21419_A_16371213	NC_021163.1	Ca_Kabuli_Chr04	16371213	AA	TT	TT	INTERGENIC		
SNP_21420_A_16404619	NC_021163.1	Ca_Kabuli_Chr04	16404619	CC	TT	TT	INTERGENIC		
SNP_21421_A_16449543	NC_021163.1	Ca_Kabuli_Chr04	16449543	GG	AA	AA	URR	101501685	ubiquitin receptor RAD23c-like
SNP_21422_A_16526809	NC_021163.1	Ca_Kabuli_Chr04	16526809	TT	CC	CC	URR	101504911	probable carboxylesterase 17
SNP_21423_A_16576161	NC_021163.1	Ca_Kabuli_Chr04	16576161	GG	TT	TT	INTERGENIC		
SNP_21424_A_16576400	NC_021163.1	Ca_Kabuli_Chr04	16576400	AA	GG	GG	INTERGENIC		
SNP_21425_A_16576410	NC_021163.1	Ca_Kabuli_Chr04	16576410	GG	AA	AA	INTERGENIC		
SNP_21426_A_16576418	NC_021163.1	Ca_Kabuli_Chr04	16576418	TT	AA	AA	INTERGENIC		
SNP_21427_A_16576419	NC_021163.1	Ca_Kabuli_Chr04	16576419	TT	CC	CC	INTERGENIC		
SNP_21428_A_16576426	NC_021163.1	Ca_Kabuli_Chr04	16576426	CC	AA	AA	INTERGENIC		
SNP_21429_A_16576470	NC_021163.1	Ca_Kabuli_Chr04	16576470	GG	AA	AA	INTERGENIC		
SNP_21430_A_16584739	NC_021163.1	Ca_Kabuli_Chr04	16584739	CC	GG	GG	URR	101508129	40S ribosomal protein S3-2-like
SNP_21431_A_16593865	NC_021163.1	Ca_Kabuli_Chr04	16593865	CC	TT	TT	DRR	101508657	uncharacterized LOC101508657

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21432_A_16594182	NC_021163.1	Ca_Kabuli_Chr04	16594182	CC	TT	TT	DRR	101508657	uncharacterized LOC101508657
SNP_21433_A_16605926	NC_021163.1	Ca_Kabuli_Chr04	16605926	CC	AA	AA	INTERGENIC		
SNP_21434_A_16742257	NC_021163.1	Ca_Kabuli_Chr04	16742257	AA	GG	GG	INTERGENIC		
SNP_21436_A_16826107	NC_021163.1	Ca_Kabuli_Chr04	16826107	CC	TT	TT	URR	101490047	uncharacterized LOC101490047
SNP_21439_A_16879410	NC_021163.1	Ca_Kabuli_Chr04	16879410	AA	GG	GG	URR	101491556	uncharacterized LOC101491556
SNP_21440_A_16879738	NC_021163.1	Ca_Kabuli_Chr04	16879738	CC	TT	TT	INTERGENIC		
SNP_21441_A_16879754	NC_021163.1	Ca_Kabuli_Chr04	16879754	AA	GG	GG	INTERGENIC		
SNP_21442_A_16883439	NC_021163.1	Ca_Kabuli_Chr04	16883439	CC	TT	TT	DRR	101492536	germin-like protein subfamily 3 member 2
SNP_21443_A_16911923	NC_021163.1	Ca_Kabuli_Chr04	16911923	TT	GG	GG	NON_SYNONYMOUS_CODING	101492866	pentatricopeptide repeat-containing protein At2g35130
SNP_21444_A_16913891	NC_021163.1	Ca_Kabuli_Chr04	16913891	CC	TT	TT	URR	101492866	pentatricopeptide repeat-containing protein At2g35130
SNP_21447_A_16936912	NC_021163.1	Ca_Kabuli_Chr04	16936912	TT	CC	CC	INTERGENIC		
SNP_21448_A_16936947	NC_021163.1	Ca_Kabuli_Chr04	16936947	TT	CC	CC	INTERGENIC		
SNP_21449_A_16942123	NC_021163.1	Ca_Kabuli_Chr04	16942123	AA	CC	CC	INTERGENIC		
SNP_21450_A_16943134	NC_021163.1	Ca_Kabuli_Chr04	16943134	TT	CC	CC	INTERGENIC		
SNP_21452_A_16943240	NC_021163.1	Ca_Kabuli_Chr04	16943240	GG	AA	AA	INTERGENIC		
SNP_21454_A_16957491	NC_021163.1	Ca_Kabuli_Chr04	16957491	AA	GG	GG	INTERGENIC		
SNP_21455_A_16961142	NC_021163.1	Ca_Kabuli_Chr04	16961142	TT	CC	CC	DRR	101510699	histone-lysine N-methyltransferase 2D-like
SNP_21456_A_16981920	NC_021163.1	Ca_Kabuli_Chr04	16981920	AA	CC	CC	DRR	101494897	protein transport protein Sec24-like At4g32640
SNP_21458_A_16984427	NC_021163.1	Ca_Kabuli_Chr04	16984427	TT	AA	AA	INTRON	101494897	protein transport protein Sec24-like At4g32640
SNP_21459_A_16984435	NC_021163.1	Ca_Kabuli_Chr04	16984435	AA	TT	TT	INTRON	101494897	protein transport protein Sec24-like At4g32640
SNP_21460_A_16989686	NC_021163.1	Ca_Kabuli_Chr04	16989686	TT	CC	CC	INTRON	101494897	protein transport protein Sec24-like At4g32640
SNP_21461_A_16993406	NC_021163.1	Ca_Kabuli_Chr04	16993406	AA	CC	CC	SYNONYMOUS_CODING	101494897	protein transport protein Sec24-like At4g32640

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21462_A_16998113	NC_021163.1	Ca_Kabuli_Chr04	16998113	TT	CC	CC	DRR	101495543	uncharacterized LOC101495543
SNP_21463_A_16999529	NC_021163.1	Ca_Kabuli_Chr04	16999529	CC	AA	AA	URR	101494897	protein transport protein Sec24-like At4g32640
SNP_21464_A_17003080	NC_021163.1	Ca_Kabuli_Chr04	17003080	GG	AA	AA	URR	101495543	uncharacterized LOC101495543
SNP_21465_A_17003084	NC_021163.1	Ca_Kabuli_Chr04	17003084	GG	TT	TT	URR	101495543	uncharacterized LOC101495543
SNP_21466_A_17003599	NC_021163.1	Ca_Kabuli_Chr04	17003599	GG	AA	AA	INTRON	101495225	mitochondrial pyruvate carrier 1
SNP_21467_A_17003939	NC_021163.1	Ca_Kabuli_Chr04	17003939	TT	CC	CC	INTRON	101495225	mitochondrial pyruvate carrier 1
SNP_21468_A_17003942	NC_021163.1	Ca_Kabuli_Chr04	17003942	GG	AA	AA	INTRON	101495225	mitochondrial pyruvate carrier 1
SNP_21469_A_17003953	NC_021163.1	Ca_Kabuli_Chr04	17003953	GG	AA	AA	INTRON	101495225	mitochondrial pyruvate carrier 1
SNP_21470_A_17003961	NC_021163.1	Ca_Kabuli_Chr04	17003961	TT	GG	GG	INTRON	101495225	mitochondrial pyruvate carrier 1
SNP_21471_A_17011438	NC_021163.1	Ca_Kabuli_Chr04	17011438	GG	TT	TT	INTERGENIC		
SNP_21472_A_17011490	NC_021163.1	Ca_Kabuli_Chr04	17011490	AA	CC	CC	INTERGENIC		
SNP_21473_A_17013283	NC_021163.1	Ca_Kabuli_Chr04	17013283	CC	TT	TT	INTERGENIC		
SNP_21474_A_17013308	NC_021163.1	Ca_Kabuli_Chr04	17013308	CC	AA	AA	INTERGENIC		
SNP_21475_A_17013332	NC_021163.1	Ca_Kabuli_Chr04	17013332	CC	AA	AA	INTERGENIC		
SNP_21477_A_17023346	NC_021163.1	Ca_Kabuli_Chr04	17023346	CC	AA	AA	INTERGENIC		
SNP_21478_A_17025588	NC_021163.1	Ca_Kabuli_Chr04	17025588	TT	CC	CC	INTERGENIC		
SNP_21481_A_17045240	NC_021163.1	Ca_Kabuli_Chr04	17045240	AA	GG	GG	INTERGENIC		
SNP_21482_A_17045889	NC_021163.1	Ca_Kabuli_Chr04	17045889	CC	GG	GG	INTERGENIC		
SNP_21483_A_17045970	NC_021163.1	Ca_Kabuli_Chr04	17045970	TT	CC	CC	INTERGENIC		
SNP_21484_A_17047133	NC_021163.1	Ca_Kabuli_Chr04	17047133	AA	CC	CC	INTERGENIC		
SNP_21487_A_17057617	NC_021163.1	Ca_Kabuli_Chr04	17057617	GG	AA	AA	INTERGENIC		
SNP_21488_A_17063625	NC_021163.1	Ca_Kabuli_Chr04	17063625	GG	AA	AA	URR	101497735	uncharacterized LOC101497735

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21489_A_17063788	NC_021163.1	Ca_Kabuli_Chr04	17063788	CC	TT	TT	URR	101497735	uncharacterized LOC101497735
SNP_21491_A_17063849	NC_021163.1	Ca_Kabuli_Chr04	17063849	TT	AA	AA	URR	101497735	uncharacterized LOC101497735
SNP_21492_A_17063855	NC_021163.1	Ca_Kabuli_Chr04	17063855	CC	TT	TT	URR	101497735	uncharacterized LOC101497735
SNP_21493_A_17064735	NC_021163.1	Ca_Kabuli_Chr04	17064735	AA	GG	GG	INTERGENIC		
SNP_21494_A_17071708	NC_021163.1	Ca_Kabuli_Chr04	17071708	TT	AA	AA	INTERGENIC		
SNP_21496_A_17072501	NC_021163.1	Ca_Kabuli_Chr04	17072501	TT	CC	CC	INTERGENIC		
SNP_21497_A_17073989	NC_021163.1	Ca_Kabuli_Chr04	17073989	AA	GG	GG	INTRON	101498268	transcription factor ABORTED MICROSPORES
SNP_21498_A_17081211	NC_021163.1	Ca_Kabuli_Chr04	17081211	TT	CC	CC	URR	101498605	Unknown function
SNP_21499_A_17081510	NC_021163.1	Ca_Kabuli_Chr04	17081510	AA	GG	GG	URR	101498605	Unknown function
SNP_21500_A_17081524	NC_021163.1	Ca_Kabuli_Chr04	17081524	GG	AA	AA	URR	101498605	Unknown function
SNP_21501_A_17081536	NC_021163.1	Ca_Kabuli_Chr04	17081536	AA	GG	GG	URR	101498605	Unknown function
SNP_21502_A_17081546	NC_021163.1	Ca_Kabuli_Chr04	17081546	CC	TT	TT	URR	101498605	Unknown function
SNP_21503_A_17081588	NC_021163.1	Ca_Kabuli_Chr04	17081588	GG	AA	AA	URR	101498605	Unknown function
SNP_21504_A_17081628	NC_021163.1	Ca_Kabuli_Chr04	17081628	AA	GG	GG	URR	101498605	Unknown function
SNP_21505_A_17081639	NC_021163.1	Ca_Kabuli_Chr04	17081639	AA	GG	GG	URR	101498605	Unknown function
SNP_21506_A_17081694	NC_021163.1	Ca_Kabuli_Chr04	17081694	TT	GG	GG	URR	101498605	Unknown function
SNP_21509_A_17081945	NC_021163.1	Ca_Kabuli_Chr04	17081945	AA	TT	TT	URR	101498605	Unknown function
SNP_21510_A_17081985	NC_021163.1	Ca_Kabuli_Chr04	17081985	AA	TT	TT	URR	101498605	Unknown function
SNP_21511_A_17082019	NC_021163.1	Ca_Kabuli_Chr04	17082019	AA	TT	TT	URR	101498605	Unknown function
SNP_21512_A_17082185	NC_021163.1	Ca_Kabuli_Chr04	17082185	GG	AA	AA	INTERGENIC		
SNP_21513_A_17082216	NC_021163.1	Ca_Kabuli_Chr04	17082216	TT	CC	CC	INTERGENIC		
SNP_21515_A_17087031	NC_021163.1	Ca_Kabuli_Chr04	17087031	GG	AA	AA	DRR	101498937	uncharacterized LOC101498937

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21516_A_17087866	NC_021163.1	Ca_Kabuli_Chr04	17087866	AA	GG	GG	INTRON	id80882	Unknown function
SNP_21517_A_17089421	NC_021163.1	Ca_Kabuli_Chr04	17089421	CC	TT	TT	INTRON	id80882	Unknown function
SNP_21518_A_17089961	NC_021163.1	Ca_Kabuli_Chr04	17089961	AA	TT	TT	INTRON	id80882	Unknown function
SNP_21520_A_17094772	NC_021163.1	Ca_Kabuli_Chr04	17094772	GG	CC	CC	INTERGENIC		
SNP_21521_A_17096081	NC_021163.1	Ca_Kabuli_Chr04	17096081	TT	CC	CC	INTERGENIC		
SNP_21522_A_17096125	NC_021163.1	Ca_Kabuli_Chr04	17096125	GG	AA	AA	INTERGENIC		
SNP_21523_A_17096298	NC_021163.1	Ca_Kabuli_Chr04	17096298	GG	AA	AA	INTERGENIC		
SNP_21524_A_17096299	NC_021163.1	Ca_Kabuli_Chr04	17096299	TT	CC	CC	INTERGENIC		
SNP_21527_A_17101264	NC_021163.1	Ca_Kabuli_Chr04	17101264	CC	TT	TT	INTERGENIC		
SNP_21529_A_17101475	NC_021163.1	Ca_Kabuli_Chr04	17101475	CC	TT	TT	INTERGENIC		
SNP_21530_A_17101572	NC_021163.1	Ca_Kabuli_Chr04	17101572	GG	AA	AA	INTERGENIC		
SNP_21532_A_17101728	NC_021163.1	Ca_Kabuli_Chr04	17101728	TT	CC	CC	INTERGENIC		
SNP_21533_A_17104879	NC_021163.1	Ca_Kabuli_Chr04	17104879	CC	GG	GG	URR	101499161	mavicyanin-like
SNP_21534_A_17105765	NC_021163.1	Ca_Kabuli_Chr04	17105765	GG	AA	AA	URR	101499161	mavicyanin-like
SNP_21535_A_17115296	NC_021163.1	Ca_Kabuli_Chr04	17115296	AA	GG	GG	URR	101499482	probable ubiquitin-conjugating enzyme E2 23
SNP_21536_A_17115324	NC_021163.1	Ca_Kabuli_Chr04	17115324	TT	AA	AA	URR	101499482	probable ubiquitin-conjugating enzyme E2 23
SNP_21537_A_17115333	NC_021163.1	Ca_Kabuli_Chr04	17115333	AA	CC	CC	URR	101499482	probable ubiquitin-conjugating enzyme E2 23
SNP_21538_A_17115336	NC_021163.1	Ca_Kabuli_Chr04	17115336	AA	TT	TT	URR	101499482	probable ubiquitin-conjugating enzyme E2 23
SNP_21539_A_17115337	NC_021163.1	Ca_Kabuli_Chr04	17115337	GG	TT	TT	URR	101499482	probable ubiquitin-conjugating enzyme E2 23
SNP_21540_A_17133563	NC_021163.1	Ca_Kabuli_Chr04	17133563	AA	GG	GG	INTRON	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21541_A_17133570	NC_021163.1	Ca_Kabuli_Chr04	17133570	AA	GG	GG	INTRON	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21542_A_17134135	NC_021163.1	Ca_Kabuli_Chr04	17134135	TT	AA	AA	INTRON	101500527	zeaxanthin epoxidase, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21543_A_17134444	NC_021163.1	Ca_Kabuli_Chr04	17134444	AA	GG	GG	INTRON	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21544_A_17134450	NC_021163.1	Ca_Kabuli_Chr04	17134450	AA	CC	CC	INTRON	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21545_A_17136492	NC_021163.1	Ca_Kabuli_Chr04	17136492	AA	TT	TT	URR	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21546_A_17136495	NC_021163.1	Ca_Kabuli_Chr04	17136495	AA	TT	TT	URR	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21547_A_17136498	NC_021163.1	Ca_Kabuli_Chr04	17136498	TT	CC	CC	URR	101500527	zeaxanthin epoxidase, chloroplastic-like
SNP_21549_A_17143087	NC_021163.1	Ca_Kabuli_Chr04	17143087	TT	CC	CC	INTERGENIC		
SNP_21550_A_17143737	NC_021163.1	Ca_Kabuli_Chr04	17143737	GG	TT	TT	INTERGENIC		
SNP_21551_A_17143739	NC_021163.1	Ca_Kabuli_Chr04	17143739	AA	GG	GG	INTERGENIC		
SNP_21552_A_17143775	NC_021163.1	Ca_Kabuli_Chr04	17143775	CC	TT	TT	INTERGENIC		
SNP_21553_A_17146890	NC_021163.1	Ca_Kabuli_Chr04	17146890	AA	TT	TT	DRR	101501488	RNA-binding protein 39
SNP_21554_A_17146923	NC_021163.1	Ca_Kabuli_Chr04	17146923	TT	AA	AA	DRR	101501488	RNA-binding protein 39
SNP_21555_A_17146924	NC_021163.1	Ca_Kabuli_Chr04	17146924	TT	AA	AA	DRR	101501488	RNA-binding protein 39
SNP_21556_A_17146933	NC_021163.1	Ca_Kabuli_Chr04	17146933	AA	TT	TT	DRR	101501488	RNA-binding protein 39
SNP_21557_A_17146935	NC_021163.1	Ca_Kabuli_Chr04	17146935	GG	AA	AA	DRR	101501488	RNA-binding protein 39
SNP_21558_A_17147875	NC_021163.1	Ca_Kabuli_Chr04	17147875	TT	CC	CC	URR	101500845	zeaxanthin epoxidase, chloroplastic-like
SNP_21559_A_17147926	NC_021163.1	Ca_Kabuli_Chr04	17147926	CC	TT	TT	URR	101500845	zeaxanthin epoxidase, chloroplastic-like
SNP_21560_A_17148434	NC_021163.1	Ca_Kabuli_Chr04	17148434	AA	GG	GG	INTRON	101501488	RNA-binding protein 39
SNP_21561_A_17148894	NC_021163.1	Ca_Kabuli_Chr04	17148894	GG	CC	CC	INTRON	101501488	RNA-binding protein 39
SNP_21562_A_17148895	NC_021163.1	Ca_Kabuli_Chr04	17148895	GG	AA	AA	INTRON	101501488	RNA-binding protein 39
SNP_21563_A_17149577	NC_021163.1	Ca_Kabuli_Chr04	17149577	GG	AA	AA	INTERGENIC		
SNP_21564_A_17149953	NC_021163.1	Ca_Kabuli_Chr04	17149953	GG	TT	TT	INTERGENIC		
SNP_21565_A_17149959	NC_021163.1	Ca_Kabuli_Chr04	17149959	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21566_A_17150293	NC_021163.1	Ca_Kabuli_Chr04	17150293	TT	GG	GG	INTERGENIC		
SNP_21567_A_17151571	NC_021163.1	Ca_Kabuli_Chr04	17151571	CC	TT	TT	INTERGENIC		
SNP_21568_A_17151693	NC_021163.1	Ca_Kabuli_Chr04	17151693	AA	TT	TT	INTERGENIC		
SNP_21569_A_17156597	NC_021163.1	Ca_Kabuli_Chr04	17156597	GG	CC	CC	URR	101501171	Unknown function
SNP_21570_A_17157748	NC_021163.1	Ca_Kabuli_Chr04	17157748	GG	CC	CC	URR	101501488	RNA-binding protein 39
SNP_21572_A_17157814	NC_021163.1	Ca_Kabuli_Chr04	17157814	CC	TT	TT	URR	101501488	RNA-binding protein 39
SNP_21573_A_17158098	NC_021163.1	Ca_Kabuli_Chr04	17158098	TT	CC	CC	URR	101501488	RNA-binding protein 39
SNP_21574_A_17158645	NC_021163.1	Ca_Kabuli_Chr04	17158645	AA	GG	GG	DRR	101501802	uncharacterized LOC101501802
SNP_21575_A_17158887	NC_021163.1	Ca_Kabuli_Chr04	17158887	GG	CC	CC	DRR	101501802	uncharacterized LOC101501802
SNP_21576_A_17159103	NC_021163.1	Ca_Kabuli_Chr04	17159103	CC	TT	TT	DRR	101501802	uncharacterized LOC101501802
SNP_21577_A_17161491	NC_021163.1	Ca_Kabuli_Chr04	17161491	AA	GG	GG	INTRON	101501802	uncharacterized LOC101501802
SNP_21578_A_17161685	NC_021163.1	Ca_Kabuli_Chr04	17161685	TT	AA	AA	INTRON	101501802	uncharacterized LOC101501802
SNP_21579_A_17166265	NC_021163.1	Ca_Kabuli_Chr04	17166265	CC	AA	AA	URR	101501802	uncharacterized LOC101501802
SNP_21580_A_17166319	NC_021163.1	Ca_Kabuli_Chr04	17166319	CC	TT	TT	URR	101501802	uncharacterized LOC101501802
SNP_21581_A_17166333	NC_021163.1	Ca_Kabuli_Chr04	17166333	CC	AA	AA	URR	101501802	uncharacterized LOC101501802
SNP_21582_A_17167265	NC_021163.1	Ca_Kabuli_Chr04	17167265	GG	CC	CC	INTERGENIC		
SNP_21584_A_17167362	NC_021163.1	Ca_Kabuli_Chr04	17167362	CC	AA	AA	INTERGENIC		
SNP_21585_A_17167464	NC_021163.1	Ca_Kabuli_Chr04	17167464	CC	TT	TT	INTERGENIC		
SNP_21586_A_17167505	NC_021163.1	Ca_Kabuli_Chr04	17167505	AA	GG	GG	INTERGENIC		
SNP_21587_A_17169291	NC_021163.1	Ca_Kabuli_Chr04	17169291	TT	CC	CC	INTERGENIC		
SNP_21588_A_17169306	NC_021163.1	Ca_Kabuli_Chr04	17169306	GG	AA	AA	INTERGENIC		
SNP_21589_A_17169342	NC_021163.1	Ca_Kabuli_Chr04	17169342	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21590_A_17169361	NC_021163.1	Ca_Kabuli_Chr04	17169361	TT	CC	CC	INTERGENIC		
SNP_21591_A_17169376	NC_021163.1	Ca_Kabuli_Chr04	17169376	TT	CC	CC	INTERGENIC		
SNP_21592_A_17169378	NC_021163.1	Ca_Kabuli_Chr04	17169378	CC	TT	TT	INTERGENIC		
SNP_21593_A_17169556	NC_021163.1	Ca_Kabuli_Chr04	17169556	TT	CC	CC	INTERGENIC		
SNP_21594_A_17169613	NC_021163.1	Ca_Kabuli_Chr04	17169613	TT	CC	CC	INTERGENIC		
SNP_21595_A_17169629	NC_021163.1	Ca_Kabuli_Chr04	17169629	AA	GG	GG	INTERGENIC		
SNP_21596_A_17171946	NC_021163.1	Ca_Kabuli_Chr04	17171946	AA	CC	CC	INTERGENIC		
SNP_21597_A_17171950	NC_021163.1	Ca_Kabuli_Chr04	17171950	CC	TT	TT	INTERGENIC		
SNP_21598_A_17171975	NC_021163.1	Ca_Kabuli_Chr04	17171975	CC	TT	TT	INTERGENIC		
SNP_21599_A_17185504	NC_021163.1	Ca_Kabuli_Chr04	17185504	AA	TT	TT	INTERGENIC		
SNP_21600_A_17185775	NC_021163.1	Ca_Kabuli_Chr04	17185775	TT	AA	AA	INTERGENIC		
SNP_21601_A_17186721	NC_021163.1	Ca_Kabuli_Chr04	17186721	GG	AA	AA	INTERGENIC		
SNP_21602_A_17186742	NC_021163.1	Ca_Kabuli_Chr04	17186742	AA	GG	GG	INTERGENIC		
SNP_21603_A_17187340	NC_021163.1	Ca_Kabuli_Chr04	17187340	TT	CC	CC	INTERGENIC		
SNP_21604_A_17187560	NC_021163.1	Ca_Kabuli_Chr04	17187560	GG	CC	CC	INTERGENIC		
SNP_21605_A_17188232	NC_021163.1	Ca_Kabuli_Chr04	17188232	TT	CC	CC	INTERGENIC		
SNP_21606_A_17188448	NC_021163.1	Ca_Kabuli_Chr04	17188448	TT	AA	AA	INTERGENIC		
SNP_21607_A_17188457	NC_021163.1	Ca_Kabuli_Chr04	17188457	AA	TT	TT	INTERGENIC		
SNP_21609_A_17193804	NC_021163.1	Ca_Kabuli_Chr04	17193804	GG	TT	TT	URR	101502646	probable protein phosphatase 2C 79
SNP_21610_A_17194311	NC_021163.1	Ca_Kabuli_Chr04	17194311	AA	TT	TT	URR	101502646	probable protein phosphatase 2C 79
SNP_21611_A_17195038	NC_021163.1	Ca_Kabuli_Chr04	17195038	TT	CC	CC	URR	101502646	probable protein phosphatase 2C 79
SNP_21612_A_17195039	NC_021163.1	Ca_Kabuli_Chr04	17195039	AA	GG	GG	URR	101502646	probable protein phosphatase 2C 79

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21613_A_17195321	NC_021163.1	Ca_Kabuli_Chr04	17195321	AA	GG	GG	INTERGENIC		
SNP_21614_A_17195331	NC_021163.1	Ca_Kabuli_Chr04	17195331	CC	TT	TT	INTERGENIC		
SNP_21616_A_17199300	NC_021163.1	Ca_Kabuli_Chr04	17199300	AA	GG	GG	INTERGENIC		
SNP_21617_A_17201153	NC_021163.1	Ca_Kabuli_Chr04	17201153	AA	TT	TT	URR	101502337	uncharacterized LOC101502337
SNP_21618_A_17201158	NC_021163.1	Ca_Kabuli_Chr04	17201158	AA	TT	TT	URR	101502337	uncharacterized LOC101502337
SNP_21619_A_17201166	NC_021163.1	Ca_Kabuli_Chr04	17201166	AA	GG	GG	URR	101502337	uncharacterized LOC101502337
SNP_21620_A_17201283	NC_021163.1	Ca_Kabuli_Chr04	17201283	TT	AA	AA	URR	101502337	uncharacterized LOC101502337
SNP_21621_A_17201336	NC_021163.1	Ca_Kabuli_Chr04	17201336	GG	CC	CC	DRR	101503512	protein CHAPERONE-LIKE PROTEIN OF POR1, chloroplastic
SNP_21622_A_17201343	NC_021163.1	Ca_Kabuli_Chr04	17201343	CC	TT	TT	DRR	101503512	protein CHAPERONE-LIKE PROTEIN OF POR1, chloroplastic
SNP_21626_A_17206453	NC_021163.1	Ca_Kabuli_Chr04	17206453	TT	CC	CC	DRR	101502961	V-type proton ATPase subunit B 2
SNP_21627_A_17206463	NC_021163.1	Ca_Kabuli_Chr04	17206463	CC	TT	TT	DRR	101502961	V-type proton ATPase subunit B 2
SNP_21628_A_17206614	NC_021163.1	Ca_Kabuli_Chr04	17206614	CC	GG	GG	DRR	101502961	V-type proton ATPase subunit B 2
SNP_21629_A_17206637	NC_021163.1	Ca_Kabuli_Chr04	17206637	AA	TT	TT	DRR	101502961	V-type proton ATPase subunit B 2
SNP_21630_A_17206641	NC_021163.1	Ca_Kabuli_Chr04	17206641	AA	TT	TT	DRR	101502961	V-type proton ATPase subunit B 2
SNP_21633_A_17208628	NC_021163.1	Ca_Kabuli_Chr04	17208628	GG	AA	AA	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21634_A_17209657	NC_021163.1	Ca_Kabuli_Chr04	17209657	GG	AA	AA	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21635_A_17209665	NC_021163.1	Ca_Kabuli_Chr04	17209665	TT	CC	CC	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21636_A_17209690	NC_021163.1	Ca_Kabuli_Chr04	17209690	AA	GG	GG	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21639_A_17211789	NC_021163.1	Ca_Kabuli_Chr04	17211789	GG	AA	AA	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21640_A_17212149	NC_021163.1	Ca_Kabuli_Chr04	17212149	GG	CC	CC	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21641_A_17212159	NC_021163.1	Ca_Kabuli_Chr04	17212159	TT	CC	CC	INTRON	101502961	V-type proton ATPase subunit B 2
SNP_21642_A_17219687	NC_021163.1	Ca_Kabuli_Chr04	17219687	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21643_A_17219705	NC_021163.1	Ca_Kabuli_Chr04	17219705	AA	GG	GG	INTERGENIC		
SNP_21644_A_17219746	NC_021163.1	Ca_Kabuli_Chr04	17219746	AA	GG	GG	INTERGENIC		
SNP_21645_A_17226678	NC_021163.1	Ca_Kabuli_Chr04	17226678	TT	CC	CC	INTERGENIC		
SNP_21646_A_17226722	NC_021163.1	Ca_Kabuli_Chr04	17226722	CC	TT	TT	INTERGENIC		
SNP_21647_A_17227010	NC_021163.1	Ca_Kabuli_Chr04	17227010	CC	TT	TT	INTERGENIC		
SNP_21648_A_17229165	NC_021163.1	Ca_Kabuli_Chr04	17229165	GG	CC	CC	INTRON	101504261	transportin-1
SNP_21649_A_17230036	NC_021163.1	Ca_Kabuli_Chr04	17230036	AA	GG	GG	INTRON	101504261	transportin-1
SNP_21650_A_17231523	NC_021163.1	Ca_Kabuli_Chr04	17231523	CC	GG	GG	INTRON	101504261	transportin-1
SNP_21651_A_17231539	NC_021163.1	Ca_Kabuli_Chr04	17231539	AA	GG	GG	INTRON	101504261	transportin-1
SNP_21652_A_17231785	NC_021163.1	Ca_Kabuli_Chr04	17231785	GG	TT	TT	INTRON	101504261	transportin-1
SNP_21653_A_17234821	NC_021163.1	Ca_Kabuli_Chr04	17234821	GG	AA	AA	INTERGENIC		
SNP_21654_A_17239360	NC_021163.1	Ca_Kabuli_Chr04	17239360	GG	AA	AA	URR	101504261	transportin-1
SNP_21655_A_17239364	NC_021163.1	Ca_Kabuli_Chr04	17239364	TT	CC	CC	URR	101504261	transportin-1
SNP_21656_A_17239391	NC_021163.1	Ca_Kabuli_Chr04	17239391	CC	AA	AA	URR	101504261	transportin-1
SNP_21657_A_17239421	NC_021163.1	Ca_Kabuli_Chr04	17239421	GG	AA	AA	URR	101504261	transportin-1
SNP_21658_A_17242104	NC_021163.1	Ca_Kabuli_Chr04	17242104	TT	AA	AA	URR	101504593	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform-like
SNP_21660_A_17242518	NC_021163.1	Ca_Kabuli_Chr04	17242518	TT	AA	AA	URR	101504593	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform-like
SNP_21661_A_17243784	NC_021163.1	Ca_Kabuli_Chr04	17243784	GG	AA	AA	INTERGENIC		
SNP_21662_A_17243785	NC_021163.1	Ca_Kabuli_Chr04	17243785	TT	GG	GG	INTERGENIC		
SNP_21663_A_17243792	NC_021163.1	Ca_Kabuli_Chr04	17243792	GG	AA	AA	INTERGENIC		
SNP_21664_A_17244392	NC_021163.1	Ca_Kabuli_Chr04	17244392	TT	AA	AA	INTERGENIC		
SNP_21665_A_17244912	NC_021163.1	Ca_Kabuli_Chr04	17244912	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21666_A_17245236	NC_021163.1	Ca_Kabuli_Chr04	17245236	AA	TT	TT	INTERGENIC		
SNP_21670_A_17248388	NC_021163.1	Ca_Kabuli_Chr04	17248388	AA	CC	CC	INTERGENIC		
SNP_21671_A_17248389	NC_021163.1	Ca_Kabuli_Chr04	17248389	CC	TT	TT	INTERGENIC		
SNP_21672_A_17248410	NC_021163.1	Ca_Kabuli_Chr04	17248410	AA	GG	GG	INTERGENIC		
SNP_21673_A_17248457	NC_021163.1	Ca_Kabuli_Chr04	17248457	AA	GG	GG	INTERGENIC		
SNP_21674_A_17248773	NC_021163.1	Ca_Kabuli_Chr04	17248773	AA	GG	GG	INTERGENIC		
SNP_21675_A_17250376	NC_021163.1	Ca_Kabuli_Chr04	17250376	AA	TT	TT	INTERGENIC		
SNP_21677_A_17251527	NC_021163.1	Ca_Kabuli_Chr04	17251527	AA	CC	CC	INTERGENIC		
SNP_21678_A_17251774	NC_021163.1	Ca_Kabuli_Chr04	17251774	GG	AA	AA	INTERGENIC		
SNP_21680_A_17253847	NC_021163.1	Ca_Kabuli_Chr04	17253847	GG	TT	TT	INTERGENIC		
SNP_21681_A_17253876	NC_021163.1	Ca_Kabuli_Chr04	17253876	TT	CC	CC	INTERGENIC		
SNP_21682_A_17253888	NC_021163.1	Ca_Kabuli_Chr04	17253888	CC	TT	TT	INTERGENIC		
SNP_21683_A_17253928	NC_021163.1	Ca_Kabuli_Chr04	17253928	AA	CC	CC	INTERGENIC		
SNP_21685_A_17253963	NC_021163.1	Ca_Kabuli_Chr04	17253963	GG	AA	AA	INTERGENIC		
SNP_21688_A_17257295	NC_021163.1	Ca_Kabuli_Chr04	17257295	TT	CC	CC	INTERGENIC		
SNP_21689_A_17257307	NC_021163.1	Ca_Kabuli_Chr04	17257307	AA	GG	GG	INTERGENIC		
SNP_21691_A_17260294	NC_021163.1	Ca_Kabuli_Chr04	17260294	GG	AA	AA	DRR	101505114	hippocampus abundant transcript-like protein 1
SNP_21692_A_17260299	NC_021163.1	Ca_Kabuli_Chr04	17260299	TT	AA	AA	DRR	101505114	hippocampus abundant transcript-like protein 1
SNP_21693_A_17263704	NC_021163.1	Ca_Kabuli_Chr04	17263704	CC	TT	TT	INTERGENIC		
SNP_21694_A_17263955	NC_021163.1	Ca_Kabuli_Chr04	17263955	GG	AA	AA	INTERGENIC		
SNP_21695_A_17263961	NC_021163.1	Ca_Kabuli_Chr04	17263961	AA	GG	GG	INTERGENIC		
SNP_21696_A_17263976	NC_021163.1	Ca_Kabuli_Chr04	17263976	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21697_A_17263977	NC_021163.1	Ca_Kabuli_Chr04	17263977	CC	GG	GG	INTERGENIC		
SNP_21698_A_17263989	NC_021163.1	Ca_Kabuli_Chr04	17263989	TT	GG	GG	INTERGENIC		
SNP_21699_A_17264132	NC_021163.1	Ca_Kabuli_Chr04	17264132	TT	AA	AA	INTERGENIC		
SNP_21700_A_17264172	NC_021163.1	Ca_Kabuli_Chr04	17264172	AA	CC	CC	INTERGENIC		
SNP_21701_A_17264592	NC_021163.1	Ca_Kabuli_Chr04	17264592	AA	GG	GG	INTERGENIC		
SNP_21702_A_17266576	NC_021163.1	Ca_Kabuli_Chr04	17266576	AA	GG	GG	INTERGENIC		
SNP_21703_A_17271106	NC_021163.1	Ca_Kabuli_Chr04	17271106	GG	AA	AA	INTERGENIC		
SNP_21704_A_17275977	NC_021163.1	Ca_Kabuli_Chr04	17275977	GG	AA	AA	INTERGENIC		
SNP_21705_A_17276666	NC_021163.1	Ca_Kabuli_Chr04	17276666	AA	GG	GG	INTERGENIC		
SNP_21706_A_17280268	NC_021163.1	Ca_Kabuli_Chr04	17280268	CC	TT	TT	URR	101505774	DDB1- and CUL4-associated factor 8
SNP_21707_A_17284787	NC_021163.1	Ca_Kabuli_Chr04	17284787	GG	AA	AA	DRR	101512303	uncharacterized LOC101512303
SNP_21708_A_17284803	NC_021163.1	Ca_Kabuli_Chr04	17284803	CC	TT	TT	DRR	101512303	uncharacterized LOC101512303
SNP_21709_A_17284845	NC_021163.1	Ca_Kabuli_Chr04	17284845	CC	TT	TT	DRR	101512303	uncharacterized LOC101512303
SNP_21711_A_17285076	NC_021163.1	Ca_Kabuli_Chr04	17285076	GG	TT	TT	DRR	101512303	uncharacterized LOC101512303
SNP_21714_A_17288914	NC_021163.1	Ca_Kabuli_Chr04	17288914	GG	AA	AA	INTRON	101512303	uncharacterized LOC101512303
SNP_21715_A_17288932	NC_021163.1	Ca_Kabuli_Chr04	17288932	GG	AA	AA	INTRON	101512303	uncharacterized LOC101512303
SNP_21716_A_17289312	NC_021163.1	Ca_Kabuli_Chr04	17289312	GG	AA	AA	INTERGENIC		
SNP_21717_A_17289320	NC_021163.1	Ca_Kabuli_Chr04	17289320	AA	CC	CC	INTERGENIC		
SNP_21718_A_17289327	NC_021163.1	Ca_Kabuli_Chr04	17289327	AA	GG	GG	INTERGENIC		
SNP_21720_A_17291149	NC_021163.1	Ca_Kabuli_Chr04	17291149	TT	CC	CC	URR	101512303	uncharacterized LOC101512303
SNP_21721_A_17293633	NC_021163.1	Ca_Kabuli_Chr04	17293633	AA	GG	GG	DRR	101506961	uncharacterized LOC101506961
SNP_21722_A_17294997	NC_021163.1	Ca_Kabuli_Chr04	17294997	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21723_A_17296992	NC_021163.1	Ca_Kabuli_Chr04	17296992	TT	AA	AA	INTERGENIC		
SNP_21725_A_17312104	NC_021163.1	Ca_Kabuli_Chr04	17312104	TT	CC	CC	INTERGENIC		
SNP_21726_A_17312414	NC_021163.1	Ca_Kabuli_Chr04	17312414	TT	CC	CC	INTERGENIC		
SNP_21728_A_17314178	NC_021163.1	Ca_Kabuli_Chr04	17314178	GG	AA	AA	URR	101507285	serine/threonine-protein kinase ATR
SNP_21731_A_17315396	NC_021163.1	Ca_Kabuli_Chr04	17315396	CC	TT	TT	DRR	101508226	mechanosensitive ion channel protein 6-like
SNP_21732_A_17315413	NC_021163.1	Ca_Kabuli_Chr04	17315413	AA	GG	GG	DRR	101508226	mechanosensitive ion channel protein 6-like
SNP_21734_A_17318145	NC_021163.1	Ca_Kabuli_Chr04	17318145	TT	GG	GG	INTRON	101508226	mechanosensitive ion channel protein 6-like
SNP_21735_A_17318759	NC_021163.1	Ca_Kabuli_Chr04	17318759	AA	GG	GG	INTRON	101508226	mechanosensitive ion channel protein 6-like
SNP_21736_A_17322164	NC_021163.1	Ca_Kabuli_Chr04	17322164	TT	CC	CC	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21737_A_17322404	NC_021163.1	Ca_Kabuli_Chr04	17322404	AA	GG	GG	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21738_A_17322493	NC_021163.1	Ca_Kabuli_Chr04	17322493	CC	AA	AA	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21739_A_17322528	NC_021163.1	Ca_Kabuli_Chr04	17322528	GG	TT	TT	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21740_A_17322553	NC_021163.1	Ca_Kabuli_Chr04	17322553	GG	AA	AA	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21741_A_17322798	NC_021163.1	Ca_Kabuli_Chr04	17322798	AA	GG	GG	URR	101508226	mechanosensitive ion channel protein 6-like
SNP_21743_A_17328524	NC_021163.1	Ca_Kabuli_Chr04	17328524	TT	AA	AA	INTERGENIC		
SNP_21744_A_17329047	NC_021163.1	Ca_Kabuli_Chr04	17329047	AA	GG	GG	INTERGENIC		
SNP_21746_A_17329576	NC_021163.1	Ca_Kabuli_Chr04	17329576	TT	CC	CC	INTERGENIC		
SNP_21747_A_17331959	NC_021163.1	Ca_Kabuli_Chr04	17331959	CC	TT	TT	INTERGENIC		
SNP_21748_A_17335181	NC_021163.1	Ca_Kabuli_Chr04	17335181	TT	AA	AA	INTERGENIC		
SNP_21749_A_17335358	NC_021163.1	Ca_Kabuli_Chr04	17335358	CC	TT	TT	INTERGENIC		
SNP_21750_A_17339200	NC_021163.1	Ca_Kabuli_Chr04	17339200	GG	AA	AA	INTERGENIC		
SNP_21751_A_17340574	NC_021163.1	Ca_Kabuli_Chr04	17340574	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21752_A_17344166	NC_021163.1	Ca_Kabuli_Chr04	17344166	CC	AA	AA	INTRON	101508977	mediator of RNA polymerase II transcription subunit 36a-like
SNP_21753_A_17344172	NC_021163.1	Ca_Kabuli_Chr04	17344172	AA	GG	GG	INTRON	101508977	mediator of RNA polymerase II transcription subunit 36a-like
SNP_21754_A_17344239	NC_021163.1	Ca_Kabuli_Chr04	17344239	GG	AA	AA	INTRON	101508977	mediator of RNA polymerase II transcription subunit 36a-like
SNP_21755_A_17344449	NC_021163.1	Ca_Kabuli_Chr04	17344449	CC	TT	TT	INTRON	101508977	mediator of RNA polymerase II transcription subunit 36a-like
SNP_21756_A_17344522	NC_021163.1	Ca_Kabuli_Chr04	17344522	TT	CC	CC	INTRON	101508977	mediator of RNA polymerase II transcription subunit 36a-like
SNP_21757_A_17349267	NC_021163.1	Ca_Kabuli_Chr04	17349267	GG	TT	TT	INTERGENIC		
SNP_21758_A_17354444	NC_021163.1	Ca_Kabuli_Chr04	17354444	AA	TT	TT	INTERGENIC		
SNP_21759_A_17354495	NC_021163.1	Ca_Kabuli_Chr04	17354495	TT	CC	CC	INTERGENIC		
SNP_21761_A_17355117	NC_021163.1	Ca_Kabuli_Chr04	17355117	CC	TT	TT	INTERGENIC		
SNP_21762_A_17355406	NC_021163.1	Ca_Kabuli_Chr04	17355406	CC	AA	AA	INTERGENIC		
SNP_21763_A_17356607	NC_021163.1	Ca_Kabuli_Chr04	17356607	GG	AA	AA	INTERGENIC		
SNP_21764_A_17358921	NC_021163.1	Ca_Kabuli_Chr04	17358921	TT	AA	AA	INTRON	101509291	serine/threonine-protein kinase HT1
SNP_21765_A_17358922	NC_021163.1	Ca_Kabuli_Chr04	17358922	TT	AA	AA	INTRON	101509291	serine/threonine-protein kinase HT1
SNP_21766_A_17360064	NC_021163.1	Ca_Kabuli_Chr04	17360064	GG	AA	AA	INTRON	101509291	serine/threonine-protein kinase HT1
SNP_21768_A_17363099	NC_021163.1	Ca_Kabuli_Chr04	17363099	AA	TT	TT	INTRON	101509291	serine/threonine-protein kinase HT1
SNP_21771_A_17367952	NC_021163.1	Ca_Kabuli_Chr04	17367952	TT	CC	CC	URR	101509291	serine/threonine-protein kinase HT1
SNP_21772_A_17372655	NC_021163.1	Ca_Kabuli_Chr04	17372655	TT	CC	CC	INTERGENIC		
SNP_21774_A_17376800	NC_021163.1	Ca_Kabuli_Chr04	17376800	TT	CC	CC	DRR	101509834	F-box/LRR-repeat protein 10
SNP_21775_A_17383425	NC_021163.1	Ca_Kabuli_Chr04	17383425	TT	GG	GG	INTERGENIC		
SNP_21776_A_17383426	NC_021163.1	Ca_Kabuli_Chr04	17383426	GG	CC	CC	INTERGENIC		
SNP_21777_A_17383473	NC_021163.1	Ca_Kabuli_Chr04	17383473	CC	TT	TT	INTERGENIC		
SNP_21778_A_17383477	NC_021163.1	Ca_Kabuli_Chr04	17383477	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21779_A_17384974	NC_021163.1	Ca_Kabuli_Chr04	17384974	GG	TT	TT	INTERGENIC		
SNP_21781_A_17398168	NC_021163.1	Ca_Kabuli_Chr04	17398168	CC	GG	GG	URR	101510147	lysine-specific demethylase JMJ25-like
SNP_21782_A_17398645	NC_021163.1	Ca_Kabuli_Chr04	17398645	AA	GG	GG	URR	101510147	lysine-specific demethylase JMJ25-like
SNP_21783_A_17402316	NC_021163.1	Ca_Kabuli_Chr04	17402316	CC	TT	TT	INTERGENIC		
SNP_21784_A_17402424	NC_021163.1	Ca_Kabuli_Chr04	17402424	CC	TT	TT	INTERGENIC		
SNP_21785_A_17403021	NC_021163.1	Ca_Kabuli_Chr04	17403021	AA	GG	GG	INTERGENIC		
SNP_21786_A_17403032	NC_021163.1	Ca_Kabuli_Chr04	17403032	CC	AA	AA	INTERGENIC		
SNP_21787_A_17403038	NC_021163.1	Ca_Kabuli_Chr04	17403038	AA	GG	GG	INTERGENIC		
SNP_21788_A_17403329	NC_021163.1	Ca_Kabuli_Chr04	17403329	GG	AA	AA	INTERGENIC		
SNP_21789_A_17403335	NC_021163.1	Ca_Kabuli_Chr04	17403335	CC	TT	TT	INTERGENIC		
SNP_21790_A_17405094	NC_021163.1	Ca_Kabuli_Chr04	17405094	GG	TT	TT	INTERGENIC		
SNP_21791_A_17405254	NC_021163.1	Ca_Kabuli_Chr04	17405254	GG	AA	AA	INTERGENIC		
SNP_21792_A_17406893	NC_021163.1	Ca_Kabuli_Chr04	17406893	CC	AA	AA	INTERGENIC		
SNP_21793_A_17407407	NC_021163.1	Ca_Kabuli_Chr04	17407407	TT	CC	CC	INTERGENIC		
SNP_21794_A_17407479	NC_021163.1	Ca_Kabuli_Chr04	17407479	GG	TT	TT	INTERGENIC		
SNP_21795_A_17408503	NC_021163.1	Ca_Kabuli_Chr04	17408503	AA	TT	TT	INTERGENIC		
SNP_21796_A_17409094	NC_021163.1	Ca_Kabuli_Chr04	17409094	CC	AA	AA	INTERGENIC		
SNP_21797_A_17420091	NC_021163.1	Ca_Kabuli_Chr04	17420091	AA	GG	GG	INTERGENIC		
SNP_21799_A_17420486	NC_021163.1	Ca_Kabuli_Chr04	17420486	AA	GG	GG	INTERGENIC		
SNP_21800_A_17420764	NC_021163.1	Ca_Kabuli_Chr04	17420764	AA	GG	GG	INTERGENIC		
SNP_21801_A_17420788	NC_021163.1	Ca_Kabuli_Chr04	17420788	TT	AA	AA	INTERGENIC		
SNP_21802_A_17420794	NC_021163.1	Ca_Kabuli_Chr04	17420794	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_21803_A_17421011	NC_021163.1	Ca_Kabuli_Chr04	17421011	GG	TT	TT	INTERGENIC		
SNP_21804_A_17421031	NC_021163.1	Ca_Kabuli_Chr04	17421031	CC	TT	TT	INTERGENIC		
SNP_21805_A_17421111	NC_021163.1	Ca_Kabuli_Chr04	17421111	CC	AA	AA	INTERGENIC		
SNP_21806_A_17421197	NC_021163.1	Ca_Kabuli_Chr04	17421197	CC	TT	TT	INTERGENIC		
SNP_21807_A_17421214	NC_021163.1	Ca_Kabuli_Chr04	17421214	GG	AA	AA	INTERGENIC		
SNP_21809_A_17422173	NC_021163.1	Ca_Kabuli_Chr04	17422173	AA	GG	GG	INTERGENIC		
SNP_21810_A_17422178	NC_021163.1	Ca_Kabuli_Chr04	17422178	CC	TT	TT	INTERGENIC		
SNP_21813_A_17423379	NC_021163.1	Ca_Kabuli_Chr04	17423379	AA	CC	CC	INTERGENIC		
SNP_21814_A_17423390	NC_021163.1	Ca_Kabuli_Chr04	17423390	CC	TT	TT	INTERGENIC		
SNP_21815_A_17423397	NC_021163.1	Ca_Kabuli_Chr04	17423397	GG	AA	AA	INTERGENIC		
SNP_21816_A_17423420	NC_021163.1	Ca_Kabuli_Chr04	17423420	TT	CC	CC	INTERGENIC		
SNP_21817_A_17423426	NC_021163.1	Ca_Kabuli_Chr04	17423426	TT	CC	CC	INTERGENIC		
SNP_21818_A_17423450	NC_021163.1	Ca_Kabuli_Chr04	17423450	TT	CC	CC	INTERGENIC		
SNP_21819_A_17423585	NC_021163.1	Ca_Kabuli_Chr04	17423585	TT	CC	CC	INTERGENIC		
SNP_21820_A_17423647	NC_021163.1	Ca_Kabuli_Chr04	17423647	TT	CC	CC	INTERGENIC		
SNP_21821_A_17423648	NC_021163.1	Ca_Kabuli_Chr04	17423648	AA	GG	GG	INTERGENIC		
SNP_21822_A_17424966	NC_021163.1	Ca_Kabuli_Chr04	17424966	GG	AA	AA	INTERGENIC		
SNP_21823_A_17425659	NC_021163.1	Ca_Kabuli_Chr04	17425659	CC	TT	TT	DRR	101510800	lysine-specific demethylase JMJ25-like
SNP_21824_A_17425660	NC_021163.1	Ca_Kabuli_Chr04	17425660	GG	AA	AA	DRR	101510800	lysine-specific demethylase JMJ25-like
SNP_21825_A_17425665	NC_021163.1	Ca_Kabuli_Chr04	17425665	TT	CC	CC	DRR	101510800	lysine-specific demethylase JMJ25-like
SNP_21826_A_17425688	NC_021163.1	Ca_Kabuli_Chr04	17425688	AA	CC	CC	DRR	101510800	lysine-specific demethylase JMJ25-like
SNP_21827_A_17425696	NC_021163.1	Ca_Kabuli_Chr04	17425696	CC	TT	TT	DRR	101510800	lysine-specific demethylase JMJ25-like

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SNP_21828_A_17425697	NC_021163.1	Ca_Kabuli_Chr04	17425697	TT	CC	CC	DRR		101510800	lysine-specific demethylase JMJ25-like
SNP_21829_A_17425729	NC_021163.1	Ca_Kabuli_Chr04	17425729	TT	AA	AA	DRR		101510800	lysine-specific demethylase JMJ25-like
SNP_21830_A_17425730	NC_021163.1	Ca_Kabuli_Chr04	17425730	CC	GG	GG	DRR		101510800	lysine-specific demethylase JMJ25-like
SNP_21831_A_17426204	NC_021163.1	Ca_Kabuli_Chr04	17426204	CC	TT	TT	DRR		101510800	lysine-specific demethylase JMJ25-like
SNP_21832_A_17428440	NC_021163.1	Ca_Kabuli_Chr04	17428440	CC	TT	TT	INTRON		101510800	lysine-specific demethylase JMJ25-like
SNP_21833_A_17430554	NC_021163.1	Ca_Kabuli_Chr04	17430554	AA	CC	CC	INTRON		101510800	lysine-specific demethylase JMJ25-like
SNP_21834_A_17431553	NC_021163.1	Ca_Kabuli_Chr04	17431553	AA	GG	GG	INTRON		101510800	lysine-specific demethylase JMJ25-like
SNP_21836_A_17431595	NC_021163.1	Ca_Kabuli_Chr04	17431595	GG	AA	AA	INTRON		101510800	lysine-specific demethylase JMJ25-like
SNP_21837_A_17432850	NC_021163.1	Ca_Kabuli_Chr04	17432850	TT	AA	AA	INTRON		101510800	lysine-specific demethylase JMJ25-like
SNP_21839_A_17434326	NC_021163.1	Ca_Kabuli_Chr04	17434326	GG	TT	TT	INTERGENIC			
SNP_21840_A_17436201	NC_021163.1	Ca_Kabuli_Chr04	17436201	TT	GG	GG	INTERGENIC			
SNP_21841_A_17436279	NC_021163.1	Ca_Kabuli_Chr04	17436279	TT	GG	GG	INTERGENIC			
SNP_21842_A_17436281	NC_021163.1	Ca_Kabuli_Chr04	17436281	GG	TT	TT	INTERGENIC			
SNP_21843_A_17436288	NC_021163.1	Ca_Kabuli_Chr04	17436288	AA	GG	GG	INTERGENIC			
SNP_21845_A_17436359	NC_021163.1	Ca_Kabuli_Chr04	17436359	AA	GG	GG	URR		101510469	uncharacterized LOC101510469
SNP_21846_A_17436363	NC_021163.1	Ca_Kabuli_Chr04	17436363	CC	TT	TT	URR		101510469	uncharacterized LOC101510469
SNP_21847_A_17439191	NC_021163.1	Ca_Kabuli_Chr04	17439191	TT	CC	CC	INTERGENIC			
SNP_21848_A_17439465	NC_021163.1	Ca_Kabuli_Chr04	17439465	GG	CC	CC	INTERGENIC			
SNP_21849_A_17439553	NC_021163.1	Ca_Kabuli_Chr04	17439553	AA	GG	GG	INTERGENIC			
SNP_21850_A_17439571	NC_021163.1	Ca_Kabuli_Chr04	17439571	TT	GG	GG	INTERGENIC			
SNP_21851_A_17439574	NC_021163.1	Ca_Kabuli_Chr04	17439574	AA	TT	TT	INTERGENIC			
SNP_21852_A_17439685	NC_021163.1	Ca_Kabuli_Chr04	17439685	AA	GG	GG	INTERGENIC			

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SNP_21853_A_17439938	NC_021163.1	Ca_Kabuli_Chr04	17439938	TT	CC	CC	INTERGENIC		
SNP_21855_A_17440096	NC_021163.1	Ca_Kabuli_Chr04	17440096	AA	TT	TT	INTERGENIC		
SNP_21856_A_17441026	NC_021163.1	Ca_Kabuli_Chr04	17441026	TT	GG	GG	INTERGENIC		
SNP_21857_A_17445937	NC_021163.1	Ca_Kabuli_Chr04	17445937	GG	AA	AA	INTERGENIC		
SNP_21859_A_17453185	NC_021163.1	Ca_Kabuli_Chr04	17453185	AA	CC	CC	DRR	101512402	WAT1-related protein At3g30340-like
SNP_21860_A_17458120	NC_021163.1	Ca_Kabuli_Chr04	17458120	GG	AA	AA	URR	101512402	WAT1-related protein At3g30340-like
SNP_21861_A_17459659	NC_021163.1	Ca_Kabuli_Chr04	17459659	CC	TT	TT	INTERGENIC		
SNP_21862_A_17461610	NC_021163.1	Ca_Kabuli_Chr04	17461610	AA	TT	TT	INTERGENIC		
SNP_21863_A_17461634	NC_021163.1	Ca_Kabuli_Chr04	17461634	AA	TT	TT	INTERGENIC		
SNP_21864_A_17461709	NC_021163.1	Ca_Kabuli_Chr04	17461709	TT	CC	CC	INTERGENIC		
SNP_21865_A_17461733	NC_021163.1	Ca_Kabuli_Chr04	17461733	CC	TT	TT	INTERGENIC		
SNP_21866_A_17461745	NC_021163.1	Ca_Kabuli_Chr04	17461745	GG	AA	AA	INTERGENIC		
SNP_21867_A_17467875	NC_021163.1	Ca_Kabuli_Chr04	17467875	TT	GG	GG	INTERGENIC		
SNP_21868_A_17468882	NC_021163.1	Ca_Kabuli_Chr04	17468882	GG	AA	AA	INTERGENIC		
SNP_21869_A_17469526	NC_021163.1	Ca_Kabuli_Chr04	17469526	AA	TT	TT	URR	101512719	E3 ubiquitin ligase BIG BROTHER-related
SNP_21870_A_17470588	NC_021163.1	Ca_Kabuli_Chr04	17470588	GG	TT	TT	URR	101512719	E3 ubiquitin ligase BIG BROTHER-related
SNP_21871_A_17470838	NC_021163.1	Ca_Kabuli_Chr04	17470838	GG	AA	AA	URR	101512719	E3 ubiquitin ligase BIG BROTHER-related
SNP_21873_A_17471104	NC_021163.1	Ca_Kabuli_Chr04	17471104	TT	CC	CC	INTERGENIC		
SNP_21874_A_17471452	NC_021163.1	Ca_Kabuli_Chr04	17471452	GG	AA	AA	DRR	101513599	SNW/SKI-interacting protein-like
SNP_21875_A_17474930	NC_021163.1	Ca_Kabuli_Chr04	17474930	GG	AA	AA	URR	101513599	SNW/SKI-interacting protein-like
SNP_21876_A_17475106	NC_021163.1	Ca_Kabuli_Chr04	17475106	TT	AA	AA	URR	101513599	SNW/SKI-interacting protein-like
SNP_21878_A_17476269	NC_021163.1	Ca_Kabuli_Chr04	17476269	AA	TT	TT	URR	101513599	SNW/SKI-interacting protein-like

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SNP_21879_A_17483838	NC_021163.1	Ca_Kabuli_Chr04	17483838	TT	CC	CC	INTRON	101513271	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A
SNP_21881_A_17485430	NC_021163.1	Ca_Kabuli_Chr04	17485430	GG	AA	AA	INTERGENIC		
SNP_21882_A_17486908	NC_021163.1	Ca_Kabuli_Chr04	17486908	GG	AA	AA	INTERGENIC		
SNP_21883_A_17489054	NC_021163.1	Ca_Kabuli_Chr04	17489054	GG	AA	AA	DRR	101514261	uncharacterized LOC101514261
SNP_21884_A_17491203	NC_021163.1	Ca_Kabuli_Chr04	17491203	GG	AA	AA	INTERGENIC		
SNP_21885_A_17491462	NC_021163.1	Ca_Kabuli_Chr04	17491462	AA	TT	TT	INTERGENIC		
SNP_21886_A_17492435	NC_021163.1	Ca_Kabuli_Chr04	17492435	CC	TT	TT	DRR	101513923	Unknown function
SNP_21887_A_17493610	NC_021163.1	Ca_Kabuli_Chr04	17493610	AA	GG	GG	INTRON	101513923	Unknown function
SNP_21888_A_17495500	NC_021163.1	Ca_Kabuli_Chr04	17495500	GG	AA	AA	URR	101513923	Unknown function
SNP_21889_A_17498303	NC_021163.1	Ca_Kabuli_Chr04	17498303	AA	CC	CC	NON_SYNONYMOUS_CODING	101514261	uncharacterized LOC101514261
SNP_21890_A_17498461	NC_021163.1	Ca_Kabuli_Chr04	17498461	AA	GG	GG	SYNONYMOUS_CODING	101514261	uncharacterized LOC101514261
SNP_21891_A_17515043	NC_021163.1	Ca_Kabuli_Chr04	17515043	GG	AA	AA	NON_SYNONYMOUS_CODING	101513924	Unknown function
SNP_21892_A_17515057	NC_021163.1	Ca_Kabuli_Chr04	17515057	AA	CC	CC	STOP_GAINED	101513924	Unknown function
SNP_21893_A_17527159	NC_021163.1	Ca_Kabuli_Chr04	17527159	CC	TT	TT	INTRON	101514900	pentatricopeptide repeat-containing protein At3g59040
SNP_21894_A_17528094	NC_021163.1	Ca_Kabuli_Chr04	17528094	AA	CC	CC	INTRON	101514900	pentatricopeptide repeat-containing protein At3g59040
SNP_21896_A_17533015	NC_021163.1	Ca_Kabuli_Chr04	17533015	CC	GG	GG	DRR	101515225	uncharacterized LOC101515225
SNP_21897_A_17533355	NC_021163.1	Ca_Kabuli_Chr04	17533355	TT	AA	AA	INTRON	101515225	uncharacterized LOC101515225
SNP_21898_A_17533375	NC_021163.1	Ca_Kabuli_Chr04	17533375	AA	GG	GG	INTRON	101515225	uncharacterized LOC101515225
SNP_21901_A_17533549	NC_021163.1	Ca_Kabuli_Chr04	17533549	TT	CC	CC	INTERGENIC		
SNP_21902_A_17533622	NC_021163.1	Ca_Kabuli_Chr04	17533622	CC	AA	AA	INTERGENIC		
SNP_21903_A_17534807	NC_021163.1	Ca_Kabuli_Chr04	17534807	TT	CC	CC	URR	101515225	uncharacterized LOC101515225
SNP_21904_A_17534847	NC_021163.1	Ca_Kabuli_Chr04	17534847	CC	TT	TT	URR	101515225	uncharacterized LOC101515225

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SNP_21905_A_17534888	NC_021163.1	Ca_Kabuli_Chr04	17534888	AA	TT	TT	URR	101515225	uncharacterized LOC101515225
SNP_21906_A_17534921	NC_021163.1	Ca_Kabuli_Chr04	17534921	AA	GG	GG	URR	101515225	uncharacterized LOC101515225
SNP_21909_A_17535080	NC_021163.1	Ca_Kabuli_Chr04	17535080	CC	TT	TT	URR	101515225	uncharacterized LOC101515225
SNP_21910_A_17535082	NC_021163.1	Ca_Kabuli_Chr04	17535082	CC	TT	TT	URR	101515225	uncharacterized LOC101515225
SNP_21911_A_17535133	NC_021163.1	Ca_Kabuli_Chr04	17535133	AA	GG	GG	DRR	101515548	mitochondrial phosphate carrier protein 1, mitochondrial-like
SNP_21913_A_17535191	NC_021163.1	Ca_Kabuli_Chr04	17535191	CC	TT	TT	DRR	101515548	mitochondrial phosphate carrier protein 1, mitochondrial-like
SNP_21914_A_17537854	NC_021163.1	Ca_Kabuli_Chr04	17537854	AA	GG	GG	DRR	101514577	serine/threonine-protein phosphatase 7 long form homolog
SNP_21915_A_17537902	NC_021163.1	Ca_Kabuli_Chr04	17537902	AA	GG	GG	DRR	101514577	serine/threonine-protein phosphatase 7 long form homolog
SNP_21918_A_17553513	NC_021163.1	Ca_Kabuli_Chr04	17553513	TT	AA	AA	INTERGENIC		
SNP_21919_A_17553863	NC_021163.1	Ca_Kabuli_Chr04	17553863	AA	CC	CC	INTERGENIC		
SNP_21920_A_17554452	NC_021163.1	Ca_Kabuli_Chr04	17554452	CC	AA	AA	INTERGENIC		
SNP_21921_A_17560893	NC_021163.1	Ca_Kabuli_Chr04	17560893	AA	CC	CC	INTERGENIC		
SNP_21922_A_17561114	NC_021163.1	Ca_Kabuli_Chr04	17561114	CC	TT	TT	INTERGENIC		
SNP_21923_A_17566886	NC_021163.1	Ca_Kabuli_Chr04	17566886	GG	AA	AA	INTERGENIC		
SNP_21924_A_17567079	NC_021163.1	Ca_Kabuli_Chr04	17567079	TT	CC	CC	INTERGENIC		
SNP_21926_A_17568170	NC_021163.1	Ca_Kabuli_Chr04	17568170	TT	GG	GG	INTERGENIC		
SNP_21927_A_17568228	NC_021163.1	Ca_Kabuli_Chr04	17568228	TT	AA	AA	INTERGENIC		
SNP_21929_A_17580989	NC_021163.1	Ca_Kabuli_Chr04	17580989	TT	CC	CC	URR	101515226	Unknown function
SNP_21930_A_17581562	NC_021163.1	Ca_Kabuli_Chr04	17581562	GG	AA	AA	URR	101515226	Unknown function
SNP_21931_A_17581611	NC_021163.1	Ca_Kabuli_Chr04	17581611	AA	TT	TT	URR	101515226	Unknown function
SNP_21932_A_17581676	NC_021163.1	Ca_Kabuli_Chr04	17581676	CC	GG	GG	URR	101515226	Unknown function
SNP_21933_A_17583640	NC_021163.1	Ca_Kabuli_Chr04	17583640	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_21934_A_17587309	NC_021163.1	Ca_Kabuli_Chr04	17587309	AA	CC	CC	INTERGENIC			
SNP_21935_A_17595546	NC_021163.1	Ca_Kabuli_Chr04	17595546	CC	AA	AA	INTERGENIC			
SNP_21936_A_17595864	NC_021163.1	Ca_Kabuli_Chr04	17595864	TT	AA	AA	INTERGENIC			
SNP_21937_A_17596054	NC_021163.1	Ca_Kabuli_Chr04	17596054	GG	TT	TT	INTERGENIC			
SNP_21938_A_17596360	NC_021163.1	Ca_Kabuli_Chr04	17596360	AA	GG	GG	INTERGENIC			
SNP_21939_A_17597982	NC_021163.1	Ca_Kabuli_Chr04	17597982	TT	GG	GG	INTERGENIC			
SNP_21940_A_17598712	NC_021163.1	Ca_Kabuli_Chr04	17598712	AA	GG	GG	INTERGENIC			
SNP_21941_A_17598790	NC_021163.1	Ca_Kabuli_Chr04	17598790	TT	GG	GG	INTERGENIC			
SNP_21942_A_17599326	NC_021163.1	Ca_Kabuli_Chr04	17599326	AA	GG	GG	INTERGENIC			
SNP_21943_A_17600176	NC_021163.1	Ca_Kabuli_Chr04	17600176	GG	AA	AA	INTERGENIC			
SNP_21944_A_17600292	NC_021163.1	Ca_Kabuli_Chr04	17600292	CC	GG	GG	INTERGENIC			
SNP_21945_A_17600298	NC_021163.1	Ca_Kabuli_Chr04	17600298	TT	GG	GG	INTERGENIC			
SNP_21946_A_17600324	NC_021163.1	Ca_Kabuli_Chr04	17600324	TT	CC	CC	INTERGENIC			
SNP_21947_A_17600388	NC_021163.1	Ca_Kabuli_Chr04	17600388	TT	GG	GG	INTERGENIC			
SNP_21948_A_17600467	NC_021163.1	Ca_Kabuli_Chr04	17600467	AA	GG	GG	INTERGENIC			
SNP_21949_A_17600562	NC_021163.1	Ca_Kabuli_Chr04	17600562	TT	GG	GG	INTERGENIC			
SNP_21950_A_17600618	NC_021163.1	Ca_Kabuli_Chr04	17600618	CC	TT	TT	INTERGENIC			
SNP_21951_A_17600744	NC_021163.1	Ca_Kabuli_Chr04	17600744	GG	AA	AA	INTERGENIC			
SNP_21952_A_17600774	NC_021163.1	Ca_Kabuli_Chr04	17600774	GG	CC	CC	INTERGENIC			
SNP_21955_A_17601012	NC_021163.1	Ca_Kabuli_Chr04	17601012	TT	CC	CC	INTERGENIC			
SNP_21956_A_17601081	NC_021163.1	Ca_Kabuli_Chr04	17601081	TT	AA	AA	INTERGENIC			
SNP_21958_A_17601539	NC_021163.1	Ca_Kabuli_Chr04	17601539	CC	TT	TT	INTERGENIC			

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SNP_21959_A_17601603	NC_021163.1	Ca_Kabuli_Chr04	17601603	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21960_A_17601607	NC_021163.1	Ca_Kabuli_Chr04	17601607	CC	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21961_A_17601646	NC_021163.1	Ca_Kabuli_Chr04	17601646	TT	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21962_A_17601762	NC_021163.1	Ca_Kabuli_Chr04	17601762	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21963_A_17601763	NC_021163.1	Ca_Kabuli_Chr04	17601763	AA	GG	GG	DRR	101488304	E2F-associated phosphoprotein
SNP_21964_A_17601777	NC_021163.1	Ca_Kabuli_Chr04	17601777	CC	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21965_A_17601786	NC_021163.1	Ca_Kabuli_Chr04	17601786	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21966_A_17601792	NC_021163.1	Ca_Kabuli_Chr04	17601792	AA	GG	GG	DRR	101488304	E2F-associated phosphoprotein
SNP_21967_A_17601794	NC_021163.1	Ca_Kabuli_Chr04	17601794	AA	GG	GG	DRR	101488304	E2F-associated phosphoprotein
SNP_21968_A_17601830	NC_021163.1	Ca_Kabuli_Chr04	17601830	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21969_A_17601835	NC_021163.1	Ca_Kabuli_Chr04	17601835	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21970_A_17601933	NC_021163.1	Ca_Kabuli_Chr04	17601933	TT	GG	GG	DRR	101488304	E2F-associated phosphoprotein
SNP_21971_A_17602199	NC_021163.1	Ca_Kabuli_Chr04	17602199	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21972_A_17602202	NC_021163.1	Ca_Kabuli_Chr04	17602202	GG	AA	AA	DRR	101488304	E2F-associated phosphoprotein
SNP_21973_A_17602346	NC_021163.1	Ca_Kabuli_Chr04	17602346	CC	TT	TT	DRR	101488304	E2F-associated phosphoprotein
SNP_21974_A_17602932	NC_021163.1	Ca_Kabuli_Chr04	17602932	TT	CC	CC	INTRON	101488304	E2F-associated phosphoprotein
SNP_21975_A_17607636	NC_021163.1	Ca_Kabuli_Chr04	17607636	AA	GG	GG	URR	101488304	E2F-associated phosphoprotein
SNP_21976_A_17607643	NC_021163.1	Ca_Kabuli_Chr04	17607643	GG	CC	CC	URR	101488304	E2F-associated phosphoprotein
SNP_21977_A_17607644	NC_021163.1	Ca_Kabuli_Chr04	17607644	CC	TT	TT	URR	101488304	E2F-associated phosphoprotein
SNP_21978_A_17608924	NC_021163.1	Ca_Kabuli_Chr04	17608924	GG	AA	AA	INTERGENIC		
SNP_21979_A_17610767	NC_021163.1	Ca_Kabuli_Chr04	17610767	TT	CC	CC	DRR	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like
SNP_21980_A_17610768	NC_021163.1	Ca_Kabuli_Chr04	17610768	GG	AA	AA	DRR	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like

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SNP_21981_A_17616082	NC_021163.1	Ca_Kabuli_Chr04	17616082	CC		AA	AA	INTRON	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like
SNP_21982_A_17616084	NC_021163.1	Ca_Kabuli_Chr04	17616084	CC		TT	TT	INTRON	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like
SNP_21983_A_17617701	NC_021163.1	Ca_Kabuli_Chr04	17617701	CC		TT	TT	URR	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like
SNP_21985_A_17618212	NC_021163.1	Ca_Kabuli_Chr04	17618212	TT		AA	AA	URR	101489414	anthranilate synthase alpha subunit 2, chloroplastic-like
SNP_21986_A_17619062	NC_021163.1	Ca_Kabuli_Chr04	17619062	TT		AA	AA	DRR	101489733	dihydroorotate dehydrogenase (quinone), mitochondrial
SNP_21987_A_17619115	NC_021163.1	Ca_Kabuli_Chr04	17619115	TT		CC	CC	DRR	101489733	dihydroorotate dehydrogenase (quinone), mitochondrial
SNP_21988_A_17619120	NC_021163.1	Ca_Kabuli_Chr04	17619120	AA		GG	GG	DRR	101489733	dihydroorotate dehydrogenase (quinone), mitochondrial
SNP_21989_A_17623490	NC_021163.1	Ca_Kabuli_Chr04	17623490	GG		AA	AA	INTRON	101489733	dihydroorotate dehydrogenase (quinone), mitochondrial
SNP_21990_A_17626374	NC_021163.1	Ca_Kabuli_Chr04	17626374	CC		TT	TT	URR	101489733	dihydroorotate dehydrogenase (quinone), mitochondrial
SNP_21991_A_17627789	NC_021163.1	Ca_Kabuli_Chr04	17627789	AA		TT	TT	INTERGENIC		
SNP_21992_A_17627910	NC_021163.1	Ca_Kabuli_Chr04	17627910	TT		AA	AA	INTERGENIC		
SNP_21993_A_17628072	NC_021163.1	Ca_Kabuli_Chr04	17628072	GG		AA	AA	INTERGENIC		
SNP_21994_A_17628074	NC_021163.1	Ca_Kabuli_Chr04	17628074	CC		GG	GG	INTERGENIC		
SNP_21995_A_17629117	NC_021163.1	Ca_Kabuli_Chr04	17629117	GG		TT	TT	DRR	101490049	myosin-1
SNP_21997_A_17631084	NC_021163.1	Ca_Kabuli_Chr04	17631084	TT		GG	GG	INTRON	101490049	myosin-1
SNP_21998_A_17631123	NC_021163.1	Ca_Kabuli_Chr04	17631123	CC		GG	GG	INTRON	101490049	myosin-1
SNP_21999_A_17633666	NC_021163.1	Ca_Kabuli_Chr04	17633666	TT		CC	CC	INTRON	101490049	myosin-1
SNP_22000_A_17633923	NC_021163.1	Ca_Kabuli_Chr04	17633923	TT		AA	AA	INTRON	101490049	myosin-1
SNP_22001_A_17635156	NC_021163.1	Ca_Kabuli_Chr04	17635156	TT		CC	CC	SYNONYMOUS_CODING	101490049	myosin-1
SNP_22002_A_17635960	NC_021163.1	Ca_Kabuli_Chr04	17635960	GG		AA	AA	INTRON	101490049	myosin-1
SNP_22004_A_17636811	NC_021163.1	Ca_Kabuli_Chr04	17636811	AA		GG	GG	INTRON	101490049	myosin-1
SNP_22005_A_17636882	NC_021163.1	Ca_Kabuli_Chr04	17636882	TT		CC	CC	INTRON	101490049	myosin-1

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SNP_22006_A_17637196	NC_021163.1	Ca_Kabuli_Chr04	17637196	CC	TT	TT	INTRON	101490049	myosin-1
SNP_22009_A_17639677	NC_021163.1	Ca_Kabuli_Chr04	17639677	GG	AA	AA	SYNONYMOUS_CODING	101490049	myosin-1
SNP_22011_A_17640707	NC_021163.1	Ca_Kabuli_Chr04	17640707	GG	AA	AA	DRR	101490592	FAD synthetase 1, chloroplastic-like
SNP_22012_A_17640760	NC_021163.1	Ca_Kabuli_Chr04	17640760	CC	TT	TT	DRR	101490592	FAD synthetase 1, chloroplastic-like
SNP_22013_A_17645218	NC_021163.1	Ca_Kabuli_Chr04	17645218	AA	TT	TT	URR	101490592	FAD synthetase 1, chloroplastic-like
SNP_22014_A_17645500	NC_021163.1	Ca_Kabuli_Chr04	17645500	GG	TT	TT	DRR	101490917	cyclic pyranopterin monophosphate synthase accessory protein, mitochondrial
SNP_22016_A_17649888	NC_021163.1	Ca_Kabuli_Chr04	17649888	TT	CC	CC	DRR	101491234	transmembrane protein 53
SNP_22017_A_17650144	NC_021163.1	Ca_Kabuli_Chr04	17650144	CC	AA	AA	DRR	101491234	transmembrane protein 53
SNP_22019_A_17656809	NC_021163.1	Ca_Kabuli_Chr04	17656809	GG	AA	AA	INTERGENIC		
SNP_22020_A_17656876	NC_021163.1	Ca_Kabuli_Chr04	17656876	TT	GG	GG	INTERGENIC		
SNP_22021_A_17656877	NC_021163.1	Ca_Kabuli_Chr04	17656877	GG	AA	AA	INTERGENIC		
SNP_22022_A_17666954	NC_021163.1	Ca_Kabuli_Chr04	17666954	GG	TT	TT	DRR	101492201	putative GEM-like protein 8
SNP_22023_A_17666963	NC_021163.1	Ca_Kabuli_Chr04	17666963	AA	TT	TT	DRR	101492201	putative GEM-like protein 8
SNP_22024_A_17668000	NC_021163.1	Ca_Kabuli_Chr04	17668000	TT	GG	GG	INTERGENIC		
SNP_22025_A_17670524	NC_021163.1	Ca_Kabuli_Chr04	17670524	GG	AA	AA	URR	101492201	putative GEM-like protein 8
SNP_22026_A_17670973	NC_021163.1	Ca_Kabuli_Chr04	17670973	TT	CC	CC	INTERGENIC		
SNP_22027_A_17671028	NC_021163.1	Ca_Kabuli_Chr04	17671028	CC	GG	GG	INTERGENIC		
SNP_22028_A_17671327	NC_021163.1	Ca_Kabuli_Chr04	17671327	CC	TT	TT	INTERGENIC		
SNP_22029_A_17671328	NC_021163.1	Ca_Kabuli_Chr04	17671328	AA	GG	GG	INTERGENIC		
SNP_22030_A_17672531	NC_021163.1	Ca_Kabuli_Chr04	17672531	GG	CC	CC	INTERGENIC		
SNP_22031_A_17672787	NC_021163.1	Ca_Kabuli_Chr04	17672787	AA	CC	CC	DRR	101492537	GEM-like protein 4
SNP_22032_A_17674638	NC_021163.1	Ca_Kabuli_Chr04	17674638	GG	AA	AA	INTRON	101492537	GEM-like protein 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22033_A_17675684	NC_021163.1	Ca_Kabuli_Chr04	17675684	GG	AA	AA	URR		101492537	GEM-like protein 4
SNP_22034_A_17681651	NC_021163.1	Ca_Kabuli_Chr04	17681651	GG	AA	AA	URR		101492867	putative GEM-like protein 8
SNP_22035_A_17682245	NC_021163.1	Ca_Kabuli_Chr04	17682245	AA	GG	GG	DRR		101493199	putative GEM-like protein 8
SNP_22036_A_17684767	NC_021163.1	Ca_Kabuli_Chr04	17684767	GG	AA	AA	URR		101493199	putative GEM-like protein 8
SNP_22038_A_17699746	NC_021163.1	Ca_Kabuli_Chr04	17699746	TT	AA	AA	INTERGENIC			
SNP_22039_A_17703495	NC_021163.1	Ca_Kabuli_Chr04	17703495	AA	GG	GG	INTERGENIC			
SNP_22042_A_17715557	NC_021163.1	Ca_Kabuli_Chr04	17715557	CC	TT	TT	INTERGENIC			
SNP_22044_A_17715691	NC_021163.1	Ca_Kabuli_Chr04	17715691	AA	TT	TT	INTERGENIC			
SNP_22045_A_17715700	NC_021163.1	Ca_Kabuli_Chr04	17715700	TT	CC	CC	INTERGENIC			
SNP_22046_A_17715709	NC_021163.1	Ca_Kabuli_Chr04	17715709	AA	TT	TT	INTERGENIC			
SNP_22047_A_17715939	NC_021163.1	Ca_Kabuli_Chr04	17715939	AA	GG	GG	INTERGENIC			
SNP_22049_A_17717058	NC_021163.1	Ca_Kabuli_Chr04	17717058	AA	CC	CC	INTERGENIC			
SNP_22050_A_17717062	NC_021163.1	Ca_Kabuli_Chr04	17717062	TT	CC	CC	INTERGENIC			
SNP_22051_A_17717486	NC_021163.1	Ca_Kabuli_Chr04	17717486	CC	AA	AA	DRR		101494784	protein ASPARTIC PROTEASE IN GUARD CELL 2-like
SNP_22052_A_17720327	NC_021163.1	Ca_Kabuli_Chr04	17720327	CC	AA	AA	URR		101494784	protein ASPARTIC PROTEASE IN GUARD CELL 2-like
SNP_22053_A_17720348	NC_021163.1	Ca_Kabuli_Chr04	17720348	AA	GG	GG	URR		101494784	protein ASPARTIC PROTEASE IN GUARD CELL 2-like
SNP_22055_A_17720401	NC_021163.1	Ca_Kabuli_Chr04	17720401	TT	CC	CC	URR		101494784	protein ASPARTIC PROTEASE IN GUARD CELL 2-like
SNP_22056_A_17720730	NC_021163.1	Ca_Kabuli_Chr04	17720730	AA	CC	CC	DRR		101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22057_A_17723467	NC_021163.1	Ca_Kabuli_Chr04	17723467	AA	GG	GG	INTERGENIC			
SNP_22058_A_17724562	NC_021163.1	Ca_Kabuli_Chr04	17724562	GG	TT	TT	INTERGENIC			
SNP_22059_A_17724583	NC_021163.1	Ca_Kabuli_Chr04	17724583	GG	TT	TT	INTERGENIC			
SNP_22060_A_17725692	NC_021163.1	Ca_Kabuli_Chr04	17725692	TT	CC	CC	INTRON		101495115	uncharacterized ATP-dependent helicase C23E6.02

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SNP_22061_A_17726295	NC_021163.1	Ca_Kabuli_Chr04	17726295	TT	CC	CC	INTRON	101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22062_A_17728820	NC_021163.1	Ca_Kabuli_Chr04	17728820	AA	GG	GG	INTRON	101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22063_A_17728826	NC_021163.1	Ca_Kabuli_Chr04	17728826	AA	TT	TT	INTRON	101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22064_A_17728845	NC_021163.1	Ca_Kabuli_Chr04	17728845	CC	AA	AA	INTRON	101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22065_A_17728962	NC_021163.1	Ca_Kabuli_Chr04	17728962	GG	CC	CC	INTRON	101495115	uncharacterized ATP-dependent helicase C23E6.02
SNP_22066_A_17735206	NC_021163.1	Ca_Kabuli_Chr04	17735206	CC	TT	TT	INTERGENIC		
SNP_22068_A_17735538	NC_021163.1	Ca_Kabuli_Chr04	17735538	CC	TT	TT	INTERGENIC		
SNP_22069_A_17735569	NC_021163.1	Ca_Kabuli_Chr04	17735569	AA	TT	TT	INTERGENIC		
SNP_22071_A_17735617	NC_021163.1	Ca_Kabuli_Chr04	17735617	TT	AA	AA	INTERGENIC		
SNP_22072_A_17735618	NC_021163.1	Ca_Kabuli_Chr04	17735618	TT	AA	AA	INTERGENIC		
SNP_22073_A_17735627	NC_021163.1	Ca_Kabuli_Chr04	17735627	TT	GG	GG	INTERGENIC		
SNP_22074_A_17735639	NC_021163.1	Ca_Kabuli_Chr04	17735639	GG	TT	TT	INTERGENIC		
SNP_22075_A_17735692	NC_021163.1	Ca_Kabuli_Chr04	17735692	CC	AA	AA	INTERGENIC		
SNP_22076_A_17735737	NC_021163.1	Ca_Kabuli_Chr04	17735737	TT	AA	AA	INTERGENIC		
SNP_22077_A_17739265	NC_021163.1	Ca_Kabuli_Chr04	17739265	TT	CC	CC	INTERGENIC		
SNP_22078_A_17739984	NC_021163.1	Ca_Kabuli_Chr04	17739984	GG	AA	AA	INTERGENIC		
SNP_22080_A_17740637	NC_021163.1	Ca_Kabuli_Chr04	17740637	AA	CC	CC	INTERGENIC		
SNP_22081_A_17740658	NC_021163.1	Ca_Kabuli_Chr04	17740658	GG	TT	TT	INTERGENIC		
SNP_22082_A_17740849	NC_021163.1	Ca_Kabuli_Chr04	17740849	GG	AA	AA	INTERGENIC		
SNP_22083_A_17740872	NC_021163.1	Ca_Kabuli_Chr04	17740872	AA	GG	GG	INTERGENIC		
SNP_22084_A_17740931	NC_021163.1	Ca_Kabuli_Chr04	17740931	GG	AA	AA	INTERGENIC		
SNP_22085_A_17740947	NC_021163.1	Ca_Kabuli_Chr04	17740947	AA	TT	TT	INTERGENIC		

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SNP_22086_A_17740966	NC_021163.1	Ca_Kabuli_Chr04	17740966	GG		AA	AA	INTERGENIC			
SNP_22087_A_17740983	NC_021163.1	Ca_Kabuli_Chr04	17740983	CC		TT	TT	INTERGENIC			
SNP_22088_A_17741010	NC_021163.1	Ca_Kabuli_Chr04	17741010	CC		TT	TT	INTERGENIC			
SNP_22089_A_17741299	NC_021163.1	Ca_Kabuli_Chr04	17741299	GG		AA	AA	INTERGENIC			
SNP_22090_A_17742322	NC_021163.1	Ca_Kabuli_Chr04	17742322	TT		GG	GG	INTERGENIC			
SNP_22091_A_17742328	NC_021163.1	Ca_Kabuli_Chr04	17742328	AA		GG	GG	INTERGENIC			
SNP_22092_A_17743996	NC_021163.1	Ca_Kabuli_Chr04	17743996	GG		AA	AA	INTERGENIC			
SNP_22093_A_17749856	NC_021163.1	Ca_Kabuli_Chr04	17749856	TT		CC	CC	DRR		101495980	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_22094_A_17753419	NC_021163.1	Ca_Kabuli_Chr04	17753419	AA		CC	CC	URR		101495980	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_22095_A_17754479	NC_021163.1	Ca_Kabuli_Chr04	17754479	GG		AA	AA	INTERGENIC			
SNP_22096_A_17755658	NC_021163.1	Ca_Kabuli_Chr04	17755658	GG		AA	AA	INTERGENIC			
SNP_22099_A_17759830	NC_021163.1	Ca_Kabuli_Chr04	17759830	AA		TT	TT	INTRON		101496531	prolyl endopeptidase-like
SNP_22100_A_17763666	NC_021163.1	Ca_Kabuli_Chr04	17763666	AA		GG	GG	INTERGENIC			
SNP_22104_A_17775765	NC_021163.1	Ca_Kabuli_Chr04	17775765	CC		GG	GG	URR		101497292	PIN2/TERF1-interacting telomerase inhibitor 1-like
SNP_22105_A_17775767	NC_021163.1	Ca_Kabuli_Chr04	17775767	TT		CC	CC	URR		101497292	PIN2/TERF1-interacting telomerase inhibitor 1-like
SNP_22106_A_17775791	NC_021163.1	Ca_Kabuli_Chr04	17775791	AA		CC	CC	URR		101497292	PIN2/TERF1-interacting telomerase inhibitor 1-like
SNP_22108_A_17775920	NC_021163.1	Ca_Kabuli_Chr04	17775920	CC		TT	TT	URR		101497292	PIN2/TERF1-interacting telomerase inhibitor 1-like
SNP_22110_A_17777689	NC_021163.1	Ca_Kabuli_Chr04	17777689	AA		GG	GG	INTERGENIC			
SNP_22111_A_17779388	NC_021163.1	Ca_Kabuli_Chr04	17779388	TT		CC	CC	INTERGENIC			
SNP_22112_A_17787029	NC_021163.1	Ca_Kabuli_Chr04	17787029	AA		CC	CC	URR		101497853	uncharacterized LOC101497853
SNP_22113_A_17787053	NC_021163.1	Ca_Kabuli_Chr04	17787053	AA		TT	TT	URR		101497853	uncharacterized LOC101497853
SNP_22114_A_17787116	NC_021163.1	Ca_Kabuli_Chr04	17787116	GG		AA	AA	URR		101497853	uncharacterized LOC101497853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22115_A_17788376	NC_021163.1	Ca_Kabuli_Chr04	17788376	AA	GG	GG	INTERGENIC			
SNP_22116_A_17792817	NC_021163.1	Ca_Kabuli_Chr04	17792817	CC	TT	TT	INTERGENIC			
SNP_22117_A_17793813	NC_021163.1	Ca_Kabuli_Chr04	17793813	AA	GG	GG	INTERGENIC			
SNP_22119_A_17825605	NC_021163.1	Ca_Kabuli_Chr04	17825605	CC	TT	TT	INTERGENIC			
SNP_22120_A_17825607	NC_021163.1	Ca_Kabuli_Chr04	17825607	CC	TT	TT	INTERGENIC			
SNP_22121_A_17825619	NC_021163.1	Ca_Kabuli_Chr04	17825619	CC	TT	TT	INTERGENIC			
SNP_22122_A_17825626	NC_021163.1	Ca_Kabuli_Chr04	17825626	CC	TT	TT	INTERGENIC			
SNP_22123_A_17825650	NC_021163.1	Ca_Kabuli_Chr04	17825650	CC	TT	TT	INTERGENIC			
SNP_22124_A_17825685	NC_021163.1	Ca_Kabuli_Chr04	17825685	GG	AA	AA	INTERGENIC			
SNP_22125_A_17825707	NC_021163.1	Ca_Kabuli_Chr04	17825707	CC	AA	AA	INTERGENIC			
SNP_22126_A_17825804	NC_021163.1	Ca_Kabuli_Chr04	17825804	CC	TT	TT	INTERGENIC			
SNP_22127_A_17825828	NC_021163.1	Ca_Kabuli_Chr04	17825828	GG	TT	TT	INTERGENIC			
SNP_22128_A_17825874	NC_021163.1	Ca_Kabuli_Chr04	17825874	TT	AA	AA	INTERGENIC			
SNP_22129_A_17826082	NC_021163.1	Ca_Kabuli_Chr04	17826082	TT	CC	CC	INTERGENIC			
SNP_22130_A_17826110	NC_021163.1	Ca_Kabuli_Chr04	17826110	TT	CC	CC	INTERGENIC			
SNP_22132_A_17828957	NC_021163.1	Ca_Kabuli_Chr04	17828957	AA	GG	GG	INTERGENIC			
SNP_22134_A_17830519	NC_021163.1	Ca_Kabuli_Chr04	17830519	AA	CC	CC	INTERGENIC			
SNP_22135_A_17831396	NC_021163.1	Ca_Kabuli_Chr04	17831396	TT	GG	GG	INTERGENIC			
SNP_22136_A_17838321	NC_021163.1	Ca_Kabuli_Chr04	17838321	CC	TT	TT	DRR	101490387	CASP-like protein 4C2	
SNP_22137_A_17842815	NC_021163.1	Ca_Kabuli_Chr04	17842815	CC	AA	AA	INTERGENIC			
SNP_22138_A_17844364	NC_021163.1	Ca_Kabuli_Chr04	17844364	TT	AA	AA	URR	101410597	transfer RNA arginine (anticodon CCG)	
SNP_22139_A_17844396	NC_021163.1	Ca_Kabuli_Chr04	17844396	AA	CC	CC	URR	101410597	transfer RNA arginine (anticodon CCG)	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22140_A_17846440	NC_021163.1	Ca_Kabuli_Chr04	17846440	AA	CC	CC	INTRON	101490711	probable methionine-tRNA ligase, mitochondrial
SNP_22142_A_17856646	NC_021163.1	Ca_Kabuli_Chr04	17856646	AA	TT	TT	INTERGENIC		
SNP_22143_A_17856937	NC_021163.1	Ca_Kabuli_Chr04	17856937	GG	TT	TT	INTERGENIC		
SNP_22144_A_17861709	NC_021163.1	Ca_Kabuli_Chr04	17861709	TT	AA	AA	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_22146_A_17862526	NC_021163.1	Ca_Kabuli_Chr04	17862526	GG	AA	AA	INTERGENIC		
SNP_22147_A_17862757	NC_021163.1	Ca_Kabuli_Chr04	17862757	AA	TT	TT	INTERGENIC		
SNP_22148_A_17862762	NC_021163.1	Ca_Kabuli_Chr04	17862762	AA	CC	CC	INTERGENIC		
SNP_22150_A_17862799	NC_021163.1	Ca_Kabuli_Chr04	17862799	AA	CC	CC	INTERGENIC		
SNP_22151_A_17863115	NC_021163.1	Ca_Kabuli_Chr04	17863115	AA	GG	GG	INTERGENIC		
SNP_22153_A_17865633	NC_021163.1	Ca_Kabuli_Chr04	17865633	GG	AA	AA	DRR	101491866	ras-related protein RABE1c-like
SNP_22154_A_17865661	NC_021163.1	Ca_Kabuli_Chr04	17865661	CC	TT	TT	DRR	101491866	ras-related protein RABE1c-like
SNP_22155_A_17865669	NC_021163.1	Ca_Kabuli_Chr04	17865669	TT	CC	CC	DRR	101491866	ras-related protein RABE1c-like
SNP_22156_A_17866010	NC_021163.1	Ca_Kabuli_Chr04	17866010	CC	TT	TT	DRR	101491866	ras-related protein RABE1c-like
SNP_22157_A_17871763	NC_021163.1	Ca_Kabuli_Chr04	17871763	CC	TT	TT	URR	101491866	ras-related protein RABE1c-like
SNP_22158_A_17921523	NC_021163.1	Ca_Kabuli_Chr04	17921523	TT	CC	CC	URR	101495002	ABC transporter B family member 20
SNP_22160_A_17975390	NC_021163.1	Ca_Kabuli_Chr04	17975390	CC	TT	TT	INTERGENIC		
SNP_22161_A_18027089	NC_021163.1	Ca_Kabuli_Chr04	18027089	AA	TT	TT	INTERGENIC		
SNP_22162_A_18033669	NC_021163.1	Ca_Kabuli_Chr04	18033669	TT	CC	CC	INTERGENIC		
SNP_22163_A_18033859	NC_021163.1	Ca_Kabuli_Chr04	18033859	TT	CC	CC	INTERGENIC		
SNP_22165_A_18090774	NC_021163.1	Ca_Kabuli_Chr04	18090774	TT	CC	CC	URR	101500218	GRIP and coiled-coil domain-containing protein 2
SNP_22166_A_18094505	NC_021163.1	Ca_Kabuli_Chr04	18094505	GG	AA	AA	INTERGENIC		
SNP_22167_A_18106541	NC_021163.1	Ca_Kabuli_Chr04	18106541	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22169_A_18138248	NC_021163.1	Ca_Kabuli_Chr04	18138248	CC	AA	AA	INTERGENIC			
SNP_22170_A_18147181	NC_021163.1	Ca_Kabuli_Chr04	18147181	GG	TT	TT	INTERGENIC			
SNP_22171_A_18147190	NC_021163.1	Ca_Kabuli_Chr04	18147190	TT	GG	GG	INTERGENIC			
SNP_22172_A_18183859	NC_021163.1	Ca_Kabuli_Chr04	18183859	TT	CC	CC	INTERGENIC			
SNP_22174_A_18249673	NC_021163.1	Ca_Kabuli_Chr04	18249673	CC	AA	AA	URR		101503944	fructose-bisphosphate aldolase-lysine N-methyltransferase, chloroplastic
SNP_22175_A_18260097	NC_021163.1	Ca_Kabuli_Chr04	18260097	AA	TT	TT	INTERGENIC			
SNP_22176_A_18262308	NC_021163.1	Ca_Kabuli_Chr04	18262308	TT	AA	AA	INTERGENIC			
SNP_22177_A_18263858	NC_021163.1	Ca_Kabuli_Chr04	18263858	TT	CC	CC	INTERGENIC			
SNP_22178_A_18264121	NC_021163.1	Ca_Kabuli_Chr04	18264121	AA	GG	GG	INTERGENIC			
SNP_22179_A_18264423	NC_021163.1	Ca_Kabuli_Chr04	18264423	TT	AA	AA	INTERGENIC			
SNP_22180_A_18264713	NC_021163.1	Ca_Kabuli_Chr04	18264713	TT	AA	AA	INTERGENIC			
SNP_22181_A_18295473	NC_021163.1	Ca_Kabuli_Chr04	18295473	CC	TT	TT	INTERGENIC			
SNP_22182_A_18295648	NC_021163.1	Ca_Kabuli_Chr04	18295648	AA	CC	CC	INTERGENIC			
SNP_22183_A_18296469	NC_021163.1	Ca_Kabuli_Chr04	18296469	TT	CC	CC	INTERGENIC			
SNP_22184_A_18310729	NC_021163.1	Ca_Kabuli_Chr04	18310729	TT	AA	AA	INTERGENIC			
SNP_22185_A_18310732	NC_021163.1	Ca_Kabuli_Chr04	18310732	TT	CC	CC	INTERGENIC			
SNP_22186_A_18342783	NC_021163.1	Ca_Kabuli_Chr04	18342783	AA	TT	TT	INTRON		101491868	Unknown function
SNP_22187_A_18369514	NC_021163.1	Ca_Kabuli_Chr04	18369514	CC	AA	AA	INTERGENIC			
SNP_22188_A_18369522	NC_021163.1	Ca_Kabuli_Chr04	18369522	AA	TT	TT	INTERGENIC			
SNP_22189_A_18379245	NC_021163.1	Ca_Kabuli_Chr04	18379245	AA	GG	GG	INTERGENIC			
SNP_22190_A_18379966	NC_021163.1	Ca_Kabuli_Chr04	18379966	GG	TT	TT	INTERGENIC			
SNP_22191_A_18388451	NC_021163.1	Ca_Kabuli_Chr04	18388451	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22193_A_18430129	NC_021163.1	Ca_Kabuli_Chr04	18430129	AA	GG	GG	INTRON	101492204	protein CLP1 homolog
SNP_22194_A_18445751	NC_021163.1	Ca_Kabuli_Chr04	18445751	GG	AA	AA	INTERGENIC		
SNP_22195_A_18445824	NC_021163.1	Ca_Kabuli_Chr04	18445824	AA	CC	CC	INTERGENIC		
SNP_22197_A_18458064	NC_021163.1	Ca_Kabuli_Chr04	18458064	CC	TT	TT	INTERGENIC		
SNP_22198_A_18515433	NC_021163.1	Ca_Kabuli_Chr04	18515433	TT	AA	AA	INTERGENIC		
SNP_22201_A_18676428	NC_021163.1	Ca_Kabuli_Chr04	18676428	TT	GG	GG	INTERGENIC		
SNP_22202_A_18676647	NC_021163.1	Ca_Kabuli_Chr04	18676647	AA	TT	TT	INTERGENIC		
SNP_22203_A_18676838	NC_021163.1	Ca_Kabuli_Chr04	18676838	TT	CC	CC	INTERGENIC		
SNP_22204_A_18677131	NC_021163.1	Ca_Kabuli_Chr04	18677131	TT	CC	CC	INTERGENIC		
SNP_22205_A_18677169	NC_021163.1	Ca_Kabuli_Chr04	18677169	TT	CC	CC	INTERGENIC		
SNP_22206_A_18703967	NC_021163.1	Ca_Kabuli_Chr04	18703967	TT	CC	CC	INTERGENIC		
SNP_22207_A_18704126	NC_021163.1	Ca_Kabuli_Chr04	18704126	GG	AA	AA	INTERGENIC		
SNP_22208_A_18770103	NC_021163.1	Ca_Kabuli_Chr04	18770103	TT	GG	GG	INTRON	101492868	callose synthase 9
SNP_22210_A_18801999	NC_021163.1	Ca_Kabuli_Chr04	18801999	GG	TT	TT	INTRON	101493200	uncharacterized LOC101493200
SNP_22211_A_18807358	NC_021163.1	Ca_Kabuli_Chr04	18807358	CC	AA	AA	DRR	101493516	Unknown function
SNP_22212_A_18807387	NC_021163.1	Ca_Kabuli_Chr04	18807387	GG	AA	AA	URR	101493200	uncharacterized LOC101493200
SNP_22213_A_18816200	NC_021163.1	Ca_Kabuli_Chr04	18816200	GG	AA	AA	INTERGENIC		
SNP_22214_A_18821166	NC_021163.1	Ca_Kabuli_Chr04	18821166	AA	TT	TT	INTERGENIC		
SNP_22216_A_18833807	NC_021163.1	Ca_Kabuli_Chr04	18833807	TT	CC	CC	INTERGENIC		
SNP_22217_A_18834163	NC_021163.1	Ca_Kabuli_Chr04	18834163	TT	AA	AA	INTERGENIC		
SNP_22218_A_18834165	NC_021163.1	Ca_Kabuli_Chr04	18834165	CC	TT	TT	INTERGENIC		
SNP_22219_A_18841073	NC_021163.1	Ca_Kabuli_Chr04	18841073	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22220_A_18841074	NC_021163.1	Ca_Kabuli_Chr04	18841074	TT	CC	CC	INTERGENIC			
SNP_22222_A_18978477	NC_021163.1	Ca_Kabuli_Chr04	18978477	CC	TT	TT	INTERGENIC			
SNP_22224_A_19008678	NC_021163.1	Ca_Kabuli_Chr04	19008678	AA	TT	TT	INTERGENIC			
SNP_22225_A_19008682	NC_021163.1	Ca_Kabuli_Chr04	19008682	AA	GG	GG	INTERGENIC			
SNP_22227_A_19046014	NC_021163.1	Ca_Kabuli_Chr04	19046014	AA	TT	TT	INTERGENIC			
SNP_22229_A_19046122	NC_021163.1	Ca_Kabuli_Chr04	19046122	AA	CC	CC	INTERGENIC			
SNP_22230_A_19046132	NC_021163.1	Ca_Kabuli_Chr04	19046132	AA	CC	CC	INTERGENIC			
SNP_22231_A_19046288	NC_021163.1	Ca_Kabuli_Chr04	19046288	TT	GG	GG	INTERGENIC			
SNP_22233_A_19076169	NC_021163.1	Ca_Kabuli_Chr04	19076169	GG	AA	AA	INTRON	101502651	prolyl 4-hydroxylase 1	
SNP_22234_A_19082324	NC_021163.1	Ca_Kabuli_Chr04	19082324	GG	AA	AA	INTERGENIC			
SNP_22235_A_19103892	NC_021163.1	Ca_Kabuli_Chr04	19103892	GG	CC	CC	INTERGENIC			
SNP_22238_A_19288941	NC_021163.1	Ca_Kabuli_Chr04	19288941	GG	AA	AA	INTERGENIC			
SNP_22240_A_19341573	NC_021163.1	Ca_Kabuli_Chr04	19341573	TT	AA	AA	INTERGENIC			
SNP_22241_A_19371445	NC_021163.1	Ca_Kabuli_Chr04	19371445	AA	TT	TT	INTERGENIC			
SNP_22242_A_19397407	NC_021163.1	Ca_Kabuli_Chr04	19397407	CC	TT	TT	INTERGENIC			
SNP_22243_A_19400448	NC_021163.1	Ca_Kabuli_Chr04	19400448	TT	CC	CC	INTERGENIC			
SNP_22244_A_19400519	NC_021163.1	Ca_Kabuli_Chr04	19400519	CC	TT	TT	INTERGENIC			
SNP_22245_A_19400565	NC_021163.1	Ca_Kabuli_Chr04	19400565	TT	CC	CC	INTERGENIC			
SNP_22246_A_19402520	NC_021163.1	Ca_Kabuli_Chr04	19402520	AA	GG	GG	INTERGENIC			
SNP_22247_A_19427637	NC_021163.1	Ca_Kabuli_Chr04	19427637	TT	CC	CC	INTERGENIC			
SNP_22249_A_19445892	NC_021163.1	Ca_Kabuli_Chr04	19445892	AA	GG	GG	INTERGENIC			
SNP_22250_A_19446108	NC_021163.1	Ca_Kabuli_Chr04	19446108	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22251_A_19446272	NC_021163.1	Ca_Kabuli_Chr04	19446272	AA	GG	GG	INTERGENIC		
SNP_22252_A_19446307	NC_021163.1	Ca_Kabuli_Chr04	19446307	TT	CC	CC	INTERGENIC		
SNP_22253_A_19473885	NC_021163.1	Ca_Kabuli_Chr04	19473885	TT	CC	CC	URR	101511327	glutathione S-transferase L3-like
SNP_22254_A_19517367	NC_021163.1	Ca_Kabuli_Chr04	19517367	TT	GG	GG	INTRON	101512945	two-component response regulator-like APRR3
SNP_22255_A_19517423	NC_021163.1	Ca_Kabuli_Chr04	19517423	TT	CC	CC	INTRON	101512945	two-component response regulator-like APRR3
SNP_22256_A_19517709	NC_021163.1	Ca_Kabuli_Chr04	19517709	GG	AA	AA	INTRON	101512945	two-component response regulator-like APRR3
SNP_22257_A_19568483	NC_021163.1	Ca_Kabuli_Chr04	19568483	AA	CC	CC	INTERGENIC		
SNP_22258_A_19571586	NC_021163.1	Ca_Kabuli_Chr04	19571586	AA	GG	GG	INTERGENIC		
SNP_22259_A_19572092	NC_021163.1	Ca_Kabuli_Chr04	19572092	GG	TT	TT	INTERGENIC		
SNP_22260_A_19572097	NC_021163.1	Ca_Kabuli_Chr04	19572097	TT	AA	AA	INTERGENIC		
SNP_22261_A_19621038	NC_021163.1	Ca_Kabuli_Chr04	19621038	CC	TT	TT	INTERGENIC		
SNP_22263_A_19649039	NC_021163.1	Ca_Kabuli_Chr04	19649039	GG	AA	AA	INTERGENIC		
SNP_22266_A_19783925	NC_021163.1	Ca_Kabuli_Chr04	19783925	AA	GG	GG	NON_SYNONYMOUS_CODING	101497737	aspartic proteinase-like protein 2
SNP_22267_A_19784143	NC_021163.1	Ca_Kabuli_Chr04	19784143	GG	TT	TT	INTRON	101497737	aspartic proteinase-like protein 2
SNP_22268_A_19784198	NC_021163.1	Ca_Kabuli_Chr04	19784198	GG	AA	AA	INTRON	101497737	aspartic proteinase-like protein 2
SNP_22269_A_19856643	NC_021163.1	Ca_Kabuli_Chr04	19856643	AA	GG	GG	INTERGENIC		
SNP_22270_A_19878638	NC_021163.1	Ca_Kabuli_Chr04	19878638	CC	TT	TT	INTERGENIC		
SNP_22271_A_19884273	NC_021163.1	Ca_Kabuli_Chr04	19884273	TT	GG	GG	INTERGENIC		
SNP_22272_A_19939073	NC_021163.1	Ca_Kabuli_Chr04	19939073	GG	AA	AA	URR	101501491	putative serine/threonine-protein kinase
SNP_22273_A_19968923	NC_021163.1	Ca_Kabuli_Chr04	19968923	CC	TT	TT	INTERGENIC		
SNP_22274_A_20005682	NC_021163.1	Ca_Kabuli_Chr04	20005682	AA	TT	TT	INTRON	101502652	V-type proton ATPase subunit G1-like
SNP_22275_A_20016336	NC_021163.1	Ca_Kabuli_Chr04	20016336	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22276_A_20068535	NC_021163.1	Ca_Kabuli_Chr04	20068535	CC	AA	AA	INTERGENIC		
SNP_22277_A_20072491	NC_021163.1	Ca_Kabuli_Chr04	20072491	GG	AA	AA	INTERGENIC		
SNP_22278_A_20097143	NC_021163.1	Ca_Kabuli_Chr04	20097143	AA	GG	GG	INTERGENIC		
SNP_22279_A_20097455	NC_021163.1	Ca_Kabuli_Chr04	20097455	AA	GG	GG	INTERGENIC		
SNP_22280_A_20150005	NC_021163.1	Ca_Kabuli_Chr04	20150005	AA	CC	CC	INTERGENIC		
SNP_22281_A_20163463	NC_021163.1	Ca_Kabuli_Chr04	20163463	AA	GG	GG	URR	101505875	BTB/POZ domain-containing protein At5g03250-like
SNP_22282_A_20164679	NC_021163.1	Ca_Kabuli_Chr04	20164679	TT	AA	AA	DRR	101491237	uncharacterized protein At4g04775-like
SNP_22283_A_20211093	NC_021163.1	Ca_Kabuli_Chr04	20211093	TT	GG	GG	INTERGENIC		
SNP_22284_A_20212198	NC_021163.1	Ca_Kabuli_Chr04	20212198	GG	AA	AA	INTERGENIC		
SNP_22285_A_20226263	NC_021163.1	Ca_Kabuli_Chr04	20226263	CC	TT	TT	INTERGENIC		
SNP_22286_A_20266495	NC_021163.1	Ca_Kabuli_Chr04	20266495	AA	GG	GG	INTERGENIC		
SNP_22287_A_20266508	NC_021163.1	Ca_Kabuli_Chr04	20266508	AA	CC	CC	INTERGENIC		
SNP_22288_A_20266651	NC_021163.1	Ca_Kabuli_Chr04	20266651	GG	AA	AA	INTERGENIC		
SNP_22289_A_20266670	NC_021163.1	Ca_Kabuli_Chr04	20266670	TT	CC	CC	INTERGENIC		
SNP_22290_A_20266684	NC_021163.1	Ca_Kabuli_Chr04	20266684	CC	AA	AA	INTERGENIC		
SNP_22291_A_20280946	NC_021163.1	Ca_Kabuli_Chr04	20280946	AA	CC	CC	INTERGENIC		
SNP_22292_A_20342636	NC_021163.1	Ca_Kabuli_Chr04	20342636	TT	CC	CC	URR	101507911	isocitrate dehydrogenase [NAD] catalytic subunit 5, mitochondrial
SNP_22293_A_20419846	NC_021163.1	Ca_Kabuli_Chr04	20419846	TT	AA	AA	INTERGENIC		
SNP_22295_A_20478241	NC_021163.1	Ca_Kabuli_Chr04	20478241	GG	AA	AA	URR	101511429	cell division cycle protein 48 homolog
SNP_22296_A_20532147	NC_021163.1	Ca_Kabuli_Chr04	20532147	GG	AA	AA	INTERGENIC		
SNP_22298_A_20540455	NC_021163.1	Ca_Kabuli_Chr04	20540455	TT	CC	CC	INTERGENIC		
SNP_22299_A_20573203	NC_021163.1	Ca_Kabuli_Chr04	20573203	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22300_A_20594476	NC_021163.1	Ca_Kabuli_Chr04	20594476	AA	TT	TT	INTERGENIC		
SNP_22301_A_20615665	NC_021163.1	Ca_Kabuli_Chr04	20615665	AA	GG	GG	URR	101493201	uncharacterized LOC101493201
SNP_22302_A_20621552	NC_021163.1	Ca_Kabuli_Chr04	20621552	CC	TT	TT	URR	101513050	nucleolar protein 58
SNP_22303_A_20641399	NC_021163.1	Ca_Kabuli_Chr04	20641399	AA	GG	GG	DRR	101493517	uncharacterized LOC101493517
SNP_22305_A_20650666	NC_021163.1	Ca_Kabuli_Chr04	20650666	TT	AA	AA	DRR	101513691	nuclear pore complex protein NUP160
SNP_22306_A_20656083	NC_021163.1	Ca_Kabuli_Chr04	20656083	GG	CC	CC	INTRON	101513691	nuclear pore complex protein NUP160
SNP_22310_A_20738472	NC_021163.1	Ca_Kabuli_Chr04	20738472	AA	GG	GG	INTERGENIC		
SNP_22311_A_20738499	NC_021163.1	Ca_Kabuli_Chr04	20738499	AA	GG	GG	INTERGENIC		
SNP_22312_A_20738517	NC_021163.1	Ca_Kabuli_Chr04	20738517	TT	GG	GG	INTERGENIC		
SNP_22313_A_20738526	NC_021163.1	Ca_Kabuli_Chr04	20738526	GG	AA	AA	INTERGENIC		
SNP_22314_A_20766145	NC_021163.1	Ca_Kabuli_Chr04	20766145	GG	AA	AA	URR	101515009	protein RRP45A-like
SNP_22316_A_20817654	NC_021163.1	Ca_Kabuli_Chr04	20817654	GG	TT	TT	INTERGENIC		
SNP_22317_A_20819755	NC_021163.1	Ca_Kabuli_Chr04	20819755	TT	CC	CC	INTERGENIC		
SNP_22318_A_20819763	NC_021163.1	Ca_Kabuli_Chr04	20819763	AA	GG	GG	INTERGENIC		
SNP_22319_A_20819768	NC_021163.1	Ca_Kabuli_Chr04	20819768	TT	AA	AA	INTERGENIC		
SNP_22320_A_20819770	NC_021163.1	Ca_Kabuli_Chr04	20819770	CC	GG	GG	INTERGENIC		
SNP_22321_A_20819771	NC_021163.1	Ca_Kabuli_Chr04	20819771	AA	CC	CC	INTERGENIC		
SNP_22322_A_20819803	NC_021163.1	Ca_Kabuli_Chr04	20819803	AA	CC	CC	INTERGENIC		
SNP_22323_A_20819806	NC_021163.1	Ca_Kabuli_Chr04	20819806	CC	TT	TT	INTERGENIC		
SNP_22324_A_20820629	NC_021163.1	Ca_Kabuli_Chr04	20820629	TT	CC	CC	INTERGENIC		
SNP_22325_A_20830228	NC_021163.1	Ca_Kabuli_Chr04	20830228	GG	TT	TT	INTERGENIC		
SNP_22326_A_20830263	NC_021163.1	Ca_Kabuli_Chr04	20830263	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22327_A_20830458	NC_021163.1	Ca_Kabuli_Chr04	20830458	TT	CC	CC	INTERGENIC			
SNP_22328_A_20830523	NC_021163.1	Ca_Kabuli_Chr04	20830523	GG	AA	AA	INTERGENIC			
SNP_22329_A_20845655	NC_021163.1	Ca_Kabuli_Chr04	20845655	AA	GG	GG	INTERGENIC			
SNP_22331_A_20928529	NC_021163.1	Ca_Kabuli_Chr04	20928529	GG	TT	TT	INTERGENIC			
SNP_22332_A_20997961	NC_021163.1	Ca_Kabuli_Chr04	20997961	CC	GG	GG	INTERGENIC			
SNP_22333_A_20997965	NC_021163.1	Ca_Kabuli_Chr04	20997965	TT	GG	GG	INTERGENIC			
SNP_22335_A_20998790	NC_021163.1	Ca_Kabuli_Chr04	20998790	CC	TT	TT	INTERGENIC			
SNP_22336_A_21008514	NC_021163.1	Ca_Kabuli_Chr04	21008514	TT	GG	GG	INTERGENIC			
SNP_22337_A_21008552	NC_021163.1	Ca_Kabuli_Chr04	21008552	CC	AA	AA	INTERGENIC			
SNP_22338_A_21008556	NC_021163.1	Ca_Kabuli_Chr04	21008556	CC	AA	AA	INTERGENIC			
SNP_22339_A_21015255	NC_021163.1	Ca_Kabuli_Chr04	21015255	CC	TT	TT	INTERGENIC			
SNP_22342_A_21063560	NC_021163.1	Ca_Kabuli_Chr04	21063560	AA	CC	CC	INTERGENIC			
SNP_22343_A_21067645	NC_021163.1	Ca_Kabuli_Chr04	21067645	TT	CC	CC	INTERGENIC			
SNP_22344_A_21071866	NC_021163.1	Ca_Kabuli_Chr04	21071866	CC	GG	GG	DRR	101495983	uncharacterized LOC101495983	
SNP_22346_A_21076465	NC_021163.1	Ca_Kabuli_Chr04	21076465	CC	TT	TT	DRR	101502556	aspartic proteinase-like protein 2	
SNP_22347_A_21076710	NC_021163.1	Ca_Kabuli_Chr04	21076710	CC	TT	TT	DRR	101502556	aspartic proteinase-like protein 2	
SNP_22348_A_21105903	NC_021163.1	Ca_Kabuli_Chr04	21105903	GG	AA	AA	INTRON	101502869	aspartic proteinase-like protein 2	
SNP_22349_A_21125560	NC_021163.1	Ca_Kabuli_Chr04	21125560	GG	AA	AA	INTRON	101502869	aspartic proteinase-like protein 2	
SNP_22351_A_21185442	NC_021163.1	Ca_Kabuli_Chr04	21185442	CC	TT	TT	INTRON	101502869	aspartic proteinase-like protein 2	
SNP_22352_A_21213431	NC_021163.1	Ca_Kabuli_Chr04	21213431	TT	CC	CC	URR	101502869	aspartic proteinase-like protein 2	
SNP_22354_A_21229628	NC_021163.1	Ca_Kabuli_Chr04	21229628	CC	AA	AA	INTERGENIC			
SNP_22355_A_21229669	NC_021163.1	Ca_Kabuli_Chr04	21229669	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22356_A_21229753	NC_021163.1	Ca_Kabuli_Chr04	21229753	GG	CC	CC	INTERGENIC		
SNP_22357_A_21229780	NC_021163.1	Ca_Kabuli_Chr04	21229780	AA	GG	GG	INTERGENIC		
SNP_22358_A_21229861	NC_021163.1	Ca_Kabuli_Chr04	21229861	AA	CC	CC	INTERGENIC		
SNP_22359_A_21229884	NC_021163.1	Ca_Kabuli_Chr04	21229884	TT	CC	CC	INTERGENIC		
SNP_22360_A_21229968	NC_021163.1	Ca_Kabuli_Chr04	21229968	GG	TT	TT	INTERGENIC		
SNP_22361_A_21231328	NC_021163.1	Ca_Kabuli_Chr04	21231328	AA	GG	GG	INTERGENIC		
SNP_22362_A_21231441	NC_021163.1	Ca_Kabuli_Chr04	21231441	GG	CC	CC	INTERGENIC		
SNP_22363_A_21231506	NC_021163.1	Ca_Kabuli_Chr04	21231506	TT	CC	CC	INTERGENIC		
SNP_22364_A_21234316	NC_021163.1	Ca_Kabuli_Chr04	21234316	AA	GG	GG	INTERGENIC		
SNP_22365_A_21234651	NC_021163.1	Ca_Kabuli_Chr04	21234651	CC	AA	AA	INTERGENIC		
SNP_22366_A_21234709	NC_021163.1	Ca_Kabuli_Chr04	21234709	TT	GG	GG	INTERGENIC		
SNP_22367_A_21239758	NC_021163.1	Ca_Kabuli_Chr04	21239758	AA	GG	GG	INTRON	101503196	probable 2-oxoglutarate/Fe(II)-dependent dioxygenase
SNP_22368_A_21239895	NC_021163.1	Ca_Kabuli_Chr04	21239895	CC	TT	TT	INTRON	101503196	probable 2-oxoglutarate/Fe(II)-dependent dioxygenase
SNP_22369_A_21240167	NC_021163.1	Ca_Kabuli_Chr04	21240167	AA	TT	TT	INTRON	101503196	probable 2-oxoglutarate/Fe(II)-dependent dioxygenase
SNP_22370_A_21240207	NC_021163.1	Ca_Kabuli_Chr04	21240207	TT	AA	AA	INTRON	101503196	probable 2-oxoglutarate/Fe(II)-dependent dioxygenase
SNP_22371_A_21243734	NC_021163.1	Ca_Kabuli_Chr04	21243734	GG	AA	AA	NON_SYNONYMOUS_CODING	101503196	probable 2-oxoglutarate/Fe(II)-dependent dioxygenase
SNP_22372_A_21314477	NC_021163.1	Ca_Kabuli_Chr04	21314477	CC	TT	TT	INTERGENIC		
SNP_22373_A_21318138	NC_021163.1	Ca_Kabuli_Chr04	21318138	CC	AA	AA	INTERGENIC		
SNP_22374_A_21331108	NC_021163.1	Ca_Kabuli_Chr04	21331108	TT	AA	AA	INTERGENIC		
SNP_22375_A_21331112	NC_021163.1	Ca_Kabuli_Chr04	21331112	TT	CC	CC	INTERGENIC		
SNP_22376_A_21331119	NC_021163.1	Ca_Kabuli_Chr04	21331119	TT	CC	CC	INTERGENIC		
SNP_22377_A_21331164	NC_021163.1	Ca_Kabuli_Chr04	21331164	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22378_A_21331505	NC_021163.1	Ca_Kabuli_Chr04	21331505	AA	GG	GG	INTERGENIC		
SNP_22379_A_21331512	NC_021163.1	Ca_Kabuli_Chr04	21331512	TT	AA	AA	INTERGENIC		
SNP_22380_A_21331552	NC_021163.1	Ca_Kabuli_Chr04	21331552	TT	CC	CC	INTERGENIC		
SNP_22381_A_21346316	NC_021163.1	Ca_Kabuli_Chr04	21346316	AA	TT	TT	INTERGENIC		
SNP_22382_A_21347515	NC_021163.1	Ca_Kabuli_Chr04	21347515	TT	AA	AA	INTERGENIC		
SNP_22383_A_21347667	NC_021163.1	Ca_Kabuli_Chr04	21347667	TT	GG	GG	INTERGENIC		
SNP_22384_A_21347760	NC_021163.1	Ca_Kabuli_Chr04	21347760	TT	AA	AA	INTERGENIC		
SNP_22385_A_21347905	NC_021163.1	Ca_Kabuli_Chr04	21347905	CC	AA	AA	INTERGENIC		
SNP_22386_A_21357886	NC_021163.1	Ca_Kabuli_Chr04	21357886	TT	CC	CC	INTERGENIC		
SNP_22389_A_21426623	NC_021163.1	Ca_Kabuli_Chr04	21426623	GG	CC	CC	INTERGENIC		
SNP_22390_A_21426725	NC_021163.1	Ca_Kabuli_Chr04	21426725	AA	GG	GG	INTERGENIC		
SNP_22391_A_21463462	NC_021163.1	Ca_Kabuli_Chr04	21463462	TT	CC	CC	INTERGENIC		
SNP_22392_A_21511754	NC_021163.1	Ca_Kabuli_Chr04	21511754	AA	GG	GG	INTRON	101505441	uncharacterized LOC101505441
SNP_22393_A_21511779	NC_021163.1	Ca_Kabuli_Chr04	21511779	TT	GG	GG	INTRON	101505441	uncharacterized LOC101505441
SNP_22395_A_21514660	NC_021163.1	Ca_Kabuli_Chr04	21514660	TT	AA	AA	INTRON	101505441	uncharacterized LOC101505441
SNP_22396_A_21529154	NC_021163.1	Ca_Kabuli_Chr04	21529154	CC	TT	TT	INTRON	101505441	uncharacterized LOC101505441
SNP_22398_A_21529200	NC_021163.1	Ca_Kabuli_Chr04	21529200	GG	AA	AA	INTRON	101505441	uncharacterized LOC101505441
SNP_22400_A_21571039	NC_021163.1	Ca_Kabuli_Chr04	21571039	CC	TT	TT	INTERGENIC		
SNP_22401_A_21571185	NC_021163.1	Ca_Kabuli_Chr04	21571185	AA	GG	GG	INTERGENIC		
SNP_22402_A_21583540	NC_021163.1	Ca_Kabuli_Chr04	21583540	GG	AA	AA	INTERGENIC		
SNP_22403_A_21599133	NC_021163.1	Ca_Kabuli_Chr04	21599133	GG	AA	AA	INTERGENIC		
SNP_22405_A_21601868	NC_021163.1	Ca_Kabuli_Chr04	21601868	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22406_A_21601908	NC_021163.1	Ca_Kabuli_Chr04	21601908	TT	AA	AA	INTERGENIC			
SNP_22407_A_21601968	NC_021163.1	Ca_Kabuli_Chr04	21601968	AA	CC	CC	INTERGENIC			
SNP_22408_A_21601974	NC_021163.1	Ca_Kabuli_Chr04	21601974	TT	AA	AA	INTERGENIC			
SNP_22409_A_21607236	NC_021163.1	Ca_Kabuli_Chr04	21607236	AA	CC	CC	INTERGENIC			
SNP_22410_A_21607300	NC_021163.1	Ca_Kabuli_Chr04	21607300	TT	CC	CC	INTERGENIC			
SNP_22411_A_21607615	NC_021163.1	Ca_Kabuli_Chr04	21607615	AA	GG	GG	INTERGENIC			
SNP_22412_A_21607747	NC_021163.1	Ca_Kabuli_Chr04	21607747	TT	CC	CC	INTERGENIC			
SNP_22413_A_21607768	NC_021163.1	Ca_Kabuli_Chr04	21607768	TT	GG	GG	INTERGENIC			
SNP_22414_A_21607903	NC_021163.1	Ca_Kabuli_Chr04	21607903	GG	AA	AA	INTERGENIC			
SNP_22415_A_21609261	NC_021163.1	Ca_Kabuli_Chr04	21609261	TT	AA	AA	INTERGENIC			
SNP_22416_A_21622088	NC_021163.1	Ca_Kabuli_Chr04	21622088	AA	GG	GG	INTERGENIC			
SNP_22417_A_21622089	NC_021163.1	Ca_Kabuli_Chr04	21622089	GG	AA	AA	INTERGENIC			
SNP_22418_A_21622187	NC_021163.1	Ca_Kabuli_Chr04	21622187	TT	CC	CC	INTERGENIC			
SNP_22419_A_21622353	NC_021163.1	Ca_Kabuli_Chr04	21622353	GG	TT	TT	INTERGENIC			
SNP_22420_A_21622641	NC_021163.1	Ca_Kabuli_Chr04	21622641	AA	GG	GG	INTERGENIC			
SNP_22421_A_21623016	NC_021163.1	Ca_Kabuli_Chr04	21623016	AA	GG	GG	INTERGENIC			
SNP_22423_A_21684093	NC_021163.1	Ca_Kabuli_Chr04	21684093	TT	AA	AA	INTERGENIC			
SNP_22424_A_21684736	NC_021163.1	Ca_Kabuli_Chr04	21684736	CC	TT	TT	INTERGENIC			
SNP_22425_A_21691029	NC_021163.1	Ca_Kabuli_Chr04	21691029	GG	AA	AA	INTERGENIC			
SNP_22426_A_21691060	NC_021163.1	Ca_Kabuli_Chr04	21691060	CC	TT	TT	INTERGENIC			
SNP_22427_A_21691100	NC_021163.1	Ca_Kabuli_Chr04	21691100	AA	GG	GG	INTERGENIC			
SNP_22428_A_21693559	NC_021163.1	Ca_Kabuli_Chr04	21693559	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22429_A_21694217	NC_021163.1	Ca_Kabuli_Chr04	21694217	CC	AA	AA	INTERGENIC			
SNP_22430_A_21731646	NC_021163.1	Ca_Kabuli_Chr04	21731646	TT	CC	CC	INTERGENIC			
SNP_22431_A_21731806	NC_021163.1	Ca_Kabuli_Chr04	21731806	AA	TT	TT	INTERGENIC			
SNP_22432_A_21731852	NC_021163.1	Ca_Kabuli_Chr04	21731852	GG	AA	AA	INTERGENIC			
SNP_22433_A_21731859	NC_021163.1	Ca_Kabuli_Chr04	21731859	AA	TT	TT	INTERGENIC			
SNP_22434_A_21744752	NC_021163.1	Ca_Kabuli_Chr04	21744752	CC	TT	TT	INTERGENIC			
SNP_22435_A_21778566	NC_021163.1	Ca_Kabuli_Chr04	21778566	TT	CC	CC	URR	101500956	UDP-glycosyltransferase 73C3-like	
SNP_22436_A_21790801	NC_021163.1	Ca_Kabuli_Chr04	21790801	TT	CC	CC	INTERGENIC			
SNP_22437_A_21804593	NC_021163.1	Ca_Kabuli_Chr04	21804593	GG	AA	AA	INTERGENIC			
SNP_22438_A_21804619	NC_021163.1	Ca_Kabuli_Chr04	21804619	GG	AA	AA	INTERGENIC			
SNP_22439_A_21804742	NC_021163.1	Ca_Kabuli_Chr04	21804742	AA	GG	GG	INTERGENIC			
SNP_22441_A_21804788	NC_021163.1	Ca_Kabuli_Chr04	21804788	TT	GG	GG	INTERGENIC			
SNP_22442_A_21804812	NC_021163.1	Ca_Kabuli_Chr04	21804812	AA	GG	GG	INTERGENIC			
SNP_22443_A_21804822	NC_021163.1	Ca_Kabuli_Chr04	21804822	GG	AA	AA	INTERGENIC			
SNP_22444_A_21839323	NC_021163.1	Ca_Kabuli_Chr04	21839323	GG	AA	AA	INTERGENIC			
SNP_22445_A_21849320	NC_021163.1	Ca_Kabuli_Chr04	21849320	TT	CC	CC	INTERGENIC			
SNP_22446_A_21849528	NC_021163.1	Ca_Kabuli_Chr04	21849528	GG	AA	AA	INTERGENIC			
SNP_22447_A_21849656	NC_021163.1	Ca_Kabuli_Chr04	21849656	AA	GG	GG	INTERGENIC			
SNP_22448_A_21887828	NC_021163.1	Ca_Kabuli_Chr04	21887828	GG	TT	TT	INTERGENIC			
SNP_22450_A_21928816	NC_021163.1	Ca_Kabuli_Chr04	21928816	GG	AA	AA	INTERGENIC			
SNP_22451_A_21929650	NC_021163.1	Ca_Kabuli_Chr04	21929650	AA	GG	GG	INTERGENIC			
SNP_22452_A_21930063	NC_021163.1	Ca_Kabuli_Chr04	21930063	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22453_A_21936452	NC_021163.1	Ca_Kabuli_Chr04	21936452	AA	GG	GG	INTERGENIC			
SNP_22454_A_21936764	NC_021163.1	Ca_Kabuli_Chr04	21936764	GG	TT	TT	INTERGENIC			
SNP_22455_A_21936784	NC_021163.1	Ca_Kabuli_Chr04	21936784	CC	TT	TT	INTERGENIC			
SNP_22456_A_21936785	NC_021163.1	Ca_Kabuli_Chr04	21936785	CC	TT	TT	INTERGENIC			
SNP_22457_A_21936801	NC_021163.1	Ca_Kabuli_Chr04	21936801	AA	TT	TT	INTERGENIC			
SNP_22458_A_21946535	NC_021163.1	Ca_Kabuli_Chr04	21946535	TT	GG	GG	DRR	101510919	auxin-induced protein 6B-like	
SNP_22459_A_22027194	NC_021163.1	Ca_Kabuli_Chr04	22027194	AA	GG	GG	INTERGENIC			
SNP_22460_A_22052628	NC_021163.1	Ca_Kabuli_Chr04	22052628	TT	AA	AA	INTERGENIC			
SNP_22461_A_22052881	NC_021163.1	Ca_Kabuli_Chr04	22052881	GG	AA	AA	INTERGENIC			
SNP_22462_A_22089471	NC_021163.1	Ca_Kabuli_Chr04	22089471	AA	GG	GG	URR	101491238	protein ROS1-like	
SNP_22463_A_22092886	NC_021163.1	Ca_Kabuli_Chr04	22092886	GG	AA	AA	INTERGENIC			
SNP_22465_A_22113745	NC_021163.1	Ca_Kabuli_Chr04	22113745	CC	TT	TT	INTERGENIC			
SNP_22466_A_22115061	NC_021163.1	Ca_Kabuli_Chr04	22115061	AA	GG	GG	INTERGENIC			
SNP_22467_A_22127622	NC_021163.1	Ca_Kabuli_Chr04	22127622	TT	CC	CC	DRR	101491564	ribosome production factor 2 homolog	
SNP_22468_A_22127884	NC_021163.1	Ca_Kabuli_Chr04	22127884	GG	CC	CC	URR	101513159	heat stress transcription factor A-3	
SNP_22469_A_22134669	NC_021163.1	Ca_Kabuli_Chr04	22134669	AA	TT	TT	URR	101491564	ribosome production factor 2 homolog	
SNP_22470_A_22134969	NC_021163.1	Ca_Kabuli_Chr04	22134969	GG	CC	CC	URR	101491564	ribosome production factor 2 homolog	
SNP_22472_A_22135052	NC_021163.1	Ca_Kabuli_Chr04	22135052	TT	CC	CC	INTERGENIC			
SNP_22473_A_22135108	NC_021163.1	Ca_Kabuli_Chr04	22135108	AA	TT	TT	INTERGENIC			
SNP_22474_A_22135118	NC_021163.1	Ca_Kabuli_Chr04	22135118	CC	AA	AA	INTERGENIC			
SNP_22475_A_22135439	NC_021163.1	Ca_Kabuli_Chr04	22135439	AA	GG	GG	DRR	101513482	ribosome production factor 2 homolog	
SNP_22476_A_22135485	NC_021163.1	Ca_Kabuli_Chr04	22135485	GG	CC	CC	DRR	101513482	ribosome production factor 2 homolog	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22477_A_22135519	NC_021163.1	Ca_Kabuli_Chr04	22135519	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22478_A_22135523	NC_021163.1	Ca_Kabuli_Chr04	22135523	AA	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22479_A_22135542	NC_021163.1	Ca_Kabuli_Chr04	22135542	AA	CC	CC	DRR	101513482	ribosome production factor 2 homolog
SNP_22480_A_22135622	NC_021163.1	Ca_Kabuli_Chr04	22135622	TT	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22481_A_22135690	NC_021163.1	Ca_Kabuli_Chr04	22135690	AA	GG	GG	DRR	101513482	ribosome production factor 2 homolog
SNP_22482_A_22135714	NC_021163.1	Ca_Kabuli_Chr04	22135714	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22483_A_22135718	NC_021163.1	Ca_Kabuli_Chr04	22135718	GG	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22484_A_22135724	NC_021163.1	Ca_Kabuli_Chr04	22135724	CC	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22485_A_22135765	NC_021163.1	Ca_Kabuli_Chr04	22135765	CC	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22486_A_22135774	NC_021163.1	Ca_Kabuli_Chr04	22135774	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22487_A_22135787	NC_021163.1	Ca_Kabuli_Chr04	22135787	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22488_A_22135788	NC_021163.1	Ca_Kabuli_Chr04	22135788	TT	CC	CC	DRR	101513482	ribosome production factor 2 homolog
SNP_22489_A_22135818	NC_021163.1	Ca_Kabuli_Chr04	22135818	CC	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22490_A_22135886	NC_021163.1	Ca_Kabuli_Chr04	22135886	AA	CC	CC	DRR	101513482	ribosome production factor 2 homolog
SNP_22491_A_22135901	NC_021163.1	Ca_Kabuli_Chr04	22135901	TT	CC	CC	DRR	101513482	ribosome production factor 2 homolog
SNP_22492_A_22135922	NC_021163.1	Ca_Kabuli_Chr04	22135922	CC	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22493_A_22135932	NC_021163.1	Ca_Kabuli_Chr04	22135932	GG	CC	CC	DRR	101513482	ribosome production factor 2 homolog
SNP_22494_A_22135973	NC_021163.1	Ca_Kabuli_Chr04	22135973	AA	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22495_A_22135999	NC_021163.1	Ca_Kabuli_Chr04	22135999	AA	GG	GG	DRR	101513482	ribosome production factor 2 homolog
SNP_22496_A_22136020	NC_021163.1	Ca_Kabuli_Chr04	22136020	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22497_A_22136088	NC_021163.1	Ca_Kabuli_Chr04	22136088	GG	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22498_A_22136125	NC_021163.1	Ca_Kabuli_Chr04	22136125	TT	AA	AA	DRR	101513482	ribosome production factor 2 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22499_A_22136128	NC_021163.1	Ca_Kabuli_Chr04	22136128	GG	AA	AA	DRR	101513482	ribosome production factor 2 homolog
SNP_22500_A_22136129	NC_021163.1	Ca_Kabuli_Chr04	22136129	AA	TT	TT	DRR	101513482	ribosome production factor 2 homolog
SNP_22501_A_22136174	NC_021163.1	Ca_Kabuli_Chr04	22136174	AA	TT	TT	NON_SYNONYMOUS_CODING	101513482	ribosome production factor 2 homolog
SNP_22502_A_22136215	NC_021163.1	Ca_Kabuli_Chr04	22136215	GG	AA	AA	NON_SYNONYMOUS_CODING	101513482	ribosome production factor 2 homolog
SNP_22503_A_22136281	NC_021163.1	Ca_Kabuli_Chr04	22136281	AA	GG	GG	INTRON	101513482	ribosome production factor 2 homolog
SNP_22504_A_22136283	NC_021163.1	Ca_Kabuli_Chr04	22136283	TT	CC	CC	INTRON	101513482	ribosome production factor 2 homolog
SNP_22505_A_22136289	NC_021163.1	Ca_Kabuli_Chr04	22136289	AA	CC	CC	INTRON	101513482	ribosome production factor 2 homolog
SNP_22506_A_22137399	NC_021163.1	Ca_Kabuli_Chr04	22137399	AA	GG	GG	INTRON	101513482	ribosome production factor 2 homolog
SNP_22507_A_22191794	NC_021163.1	Ca_Kabuli_Chr04	22191794	CC	TT	TT	INTERGENIC		
SNP_22508_A_22265399	NC_021163.1	Ca_Kabuli_Chr04	22265399	CC	AA	AA	INTERGENIC		
SNP_22509_A_22304336	NC_021163.1	Ca_Kabuli_Chr04	22304336	AA	CC	CC	INTERGENIC		
SNP_22511_A_22314038	NC_021163.1	Ca_Kabuli_Chr04	22314038	CC	GG	GG	INTERGENIC		
SNP_22514_A_22381766	NC_021163.1	Ca_Kabuli_Chr04	22381766	GG	AA	AA	INTERGENIC		
SNP_22515_A_22412124	NC_021163.1	Ca_Kabuli_Chr04	22412124	AA	GG	GG	INTERGENIC		
SNP_22516_A_22412185	NC_021163.1	Ca_Kabuli_Chr04	22412185	GG	AA	AA	INTERGENIC		
SNP_22517_A_22412201	NC_021163.1	Ca_Kabuli_Chr04	22412201	TT	CC	CC	INTERGENIC		
SNP_22518_A_22412216	NC_021163.1	Ca_Kabuli_Chr04	22412216	AA	GG	GG	INTERGENIC		
SNP_22519_A_22412220	NC_021163.1	Ca_Kabuli_Chr04	22412220	TT	CC	CC	INTERGENIC		
SNP_22521_A_22444144	NC_021163.1	Ca_Kabuli_Chr04	22444144	AA	TT	TT	INTERGENIC		
SNP_22522_A_22458609	NC_021163.1	Ca_Kabuli_Chr04	22458609	CC	AA	AA	INTERGENIC		
SNP_22523_A_22483854	NC_021163.1	Ca_Kabuli_Chr04	22483854	AA	GG	GG	INTERGENIC		
SNP_22524_A_22483941	NC_021163.1	Ca_Kabuli_Chr04	22483941	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22527_A_22521172	NC_021163.1	Ca_Kabuli_Chr04	22521172	GG	TT	TT	INTERGENIC			
SNP_22528_A_22527458	NC_021163.1	Ca_Kabuli_Chr04	22527458	TT	GG	GG	INTERGENIC			
SNP_22530_A_22562649	NC_021163.1	Ca_Kabuli_Chr04	22562649	CC	AA	AA	INTERGENIC			
SNP_22531_A_22570038	NC_021163.1	Ca_Kabuli_Chr04	22570038	GG	AA	AA	INTERGENIC			
SNP_22532_A_22570045	NC_021163.1	Ca_Kabuli_Chr04	22570045	AA	TT	TT	INTERGENIC			
SNP_22533_A_22570384	NC_021163.1	Ca_Kabuli_Chr04	22570384	TT	CC	CC	INTERGENIC			
SNP_22534_A_22570443	NC_021163.1	Ca_Kabuli_Chr04	22570443	TT	CC	CC	INTERGENIC			
SNP_22535_A_22570496	NC_021163.1	Ca_Kabuli_Chr04	22570496	AA	GG	GG	INTERGENIC			
SNP_22536_A_22570981	NC_021163.1	Ca_Kabuli_Chr04	22570981	AA	CC	CC	INTERGENIC			
SNP_22537_A_22570989	NC_021163.1	Ca_Kabuli_Chr04	22570989	AA	GG	GG	INTERGENIC			
SNP_22538_A_22601338	NC_021163.1	Ca_Kabuli_Chr04	22601338	TT	AA	AA	INTERGENIC			
SNP_22539_A_22601429	NC_021163.1	Ca_Kabuli_Chr04	22601429	AA	CC	CC	INTERGENIC			
SNP_22540_A_22601500	NC_021163.1	Ca_Kabuli_Chr04	22601500	AA	TT	TT	INTERGENIC			
SNP_22541_A_22601595	NC_021163.1	Ca_Kabuli_Chr04	22601595	AA	GG	GG	INTERGENIC			
SNP_22542_A_22601657	NC_021163.1	Ca_Kabuli_Chr04	22601657	TT	GG	GG	INTERGENIC			
SNP_22544_A_22618011	NC_021163.1	Ca_Kabuli_Chr04	22618011	TT	GG	GG	INTERGENIC			
SNP_22545_A_22618309	NC_021163.1	Ca_Kabuli_Chr04	22618309	TT	CC	CC	INTERGENIC			
SNP_22546_A_22622199	NC_021163.1	Ca_Kabuli_Chr04	22622199	GG	AA	AA	INTERGENIC			
SNP_22548_A_22657292	NC_021163.1	Ca_Kabuli_Chr04	22657292	GG	AA	AA	INTERGENIC			
SNP_22549_A_22657526	NC_021163.1	Ca_Kabuli_Chr04	22657526	AA	GG	GG	INTERGENIC			
SNP_22550_A_22658927	NC_021163.1	Ca_Kabuli_Chr04	22658927	CC	TT	TT	INTERGENIC			
SNP_22551_A_22661020	NC_021163.1	Ca_Kabuli_Chr04	22661020	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22552_A_22661060	NC_021163.1	Ca_Kabuli_Chr04	22661060	GG	TT	TT	INTERGENIC			
SNP_22553_A_22662557	NC_021163.1	Ca_Kabuli_Chr04	22662557	AA	CC	CC	INTERGENIC			
SNP_22554_A_22663993	NC_021163.1	Ca_Kabuli_Chr04	22663993	TT	GG	GG	INTERGENIC			
SNP_22555_A_22664477	NC_021163.1	Ca_Kabuli_Chr04	22664477	AA	TT	TT	INTERGENIC			
SNP_22556_A_22664748	NC_021163.1	Ca_Kabuli_Chr04	22664748	CC	AA	AA	INTERGENIC			
SNP_22557_A_22664759	NC_021163.1	Ca_Kabuli_Chr04	22664759	GG	AA	AA	INTERGENIC			
SNP_22558_A_22664777	NC_021163.1	Ca_Kabuli_Chr04	22664777	AA	GG	GG	INTERGENIC			
SNP_22559_A_22664798	NC_021163.1	Ca_Kabuli_Chr04	22664798	TT	CC	CC	INTERGENIC			
SNP_22560_A_22664808	NC_021163.1	Ca_Kabuli_Chr04	22664808	AA	CC	CC	INTERGENIC			
SNP_22561_A_22664810	NC_021163.1	Ca_Kabuli_Chr04	22664810	TT	AA	AA	INTERGENIC			
SNP_22563_A_22664892	NC_021163.1	Ca_Kabuli_Chr04	22664892	CC	AA	AA	INTERGENIC			
SNP_22565_A_22664933	NC_021163.1	Ca_Kabuli_Chr04	22664933	TT	CC	CC	INTERGENIC			
SNP_22566_A_22667794	NC_021163.1	Ca_Kabuli_Chr04	22667794	TT	GG	GG	INTERGENIC			
SNP_22567_A_22667797	NC_021163.1	Ca_Kabuli_Chr04	22667797	AA	GG	GG	INTERGENIC			
SNP_22568_A_22668226	NC_021163.1	Ca_Kabuli_Chr04	22668226	TT	CC	CC	INTERGENIC			
SNP_22569_A_22668592	NC_021163.1	Ca_Kabuli_Chr04	22668592	CC	TT	TT	INTERGENIC			
SNP_22572_A_22675756	NC_021163.1	Ca_Kabuli_Chr04	22675756	TT	AA	AA	INTERGENIC			
SNP_22573_A_22676018	NC_021163.1	Ca_Kabuli_Chr04	22676018	TT	AA	AA	INTERGENIC			
SNP_22574_A_22677264	NC_021163.1	Ca_Kabuli_Chr04	22677264	CC	TT	TT	INTERGENIC			
SNP_22575_A_22677283	NC_021163.1	Ca_Kabuli_Chr04	22677283	AA	GG	GG	INTERGENIC			
SNP_22576_A_22677298	NC_021163.1	Ca_Kabuli_Chr04	22677298	TT	GG	GG	INTERGENIC			
SNP_22577_A_22677355	NC_021163.1	Ca_Kabuli_Chr04	22677355	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22578_A_22677365	NC_021163.1	Ca_Kabuli_Chr04	22677365	TT	CC	CC	INTERGENIC			
SNP_22579_A_22677518	NC_021163.1	Ca_Kabuli_Chr04	22677518	CC	TT	TT	INTERGENIC			
SNP_22580_A_22677802	NC_021163.1	Ca_Kabuli_Chr04	22677802	CC	TT	TT	INTERGENIC			
SNP_22581_A_22678683	NC_021163.1	Ca_Kabuli_Chr04	22678683	TT	GG	GG	INTERGENIC			
SNP_22582_A_22678687	NC_021163.1	Ca_Kabuli_Chr04	22678687	AA	CC	CC	INTERGENIC			
SNP_22583_A_22678716	NC_021163.1	Ca_Kabuli_Chr04	22678716	AA	GG	GG	INTERGENIC			
SNP_22584_A_22680509	NC_021163.1	Ca_Kabuli_Chr04	22680509	AA	GG	GG	INTERGENIC			
SNP_22585_A_22680689	NC_021163.1	Ca_Kabuli_Chr04	22680689	AA	GG	GG	INTERGENIC			
SNP_22586_A_22681076	NC_021163.1	Ca_Kabuli_Chr04	22681076	TT	CC	CC	INTERGENIC			
SNP_22587_A_22681090	NC_021163.1	Ca_Kabuli_Chr04	22681090	AA	GG	GG	INTERGENIC			
SNP_22588_A_22686019	NC_021163.1	Ca_Kabuli_Chr04	22686019	CC	TT	TT	INTERGENIC			
SNP_22589_A_22695278	NC_021163.1	Ca_Kabuli_Chr04	22695278	TT	CC	CC	INTERGENIC			
SNP_22590_A_22697377	NC_021163.1	Ca_Kabuli_Chr04	22697377	CC	AA	AA	INTERGENIC			
SNP_22591_A_22700627	NC_021163.1	Ca_Kabuli_Chr04	22700627	AA	GG	GG	INTERGENIC			
SNP_22592_A_22700669	NC_021163.1	Ca_Kabuli_Chr04	22700669	TT	GG	GG	INTERGENIC			
SNP_22593_A_22700678	NC_021163.1	Ca_Kabuli_Chr04	22700678	AA	GG	GG	INTERGENIC			
SNP_22594_A_22700686	NC_021163.1	Ca_Kabuli_Chr04	22700686	TT	AA	AA	INTERGENIC			
SNP_22595_A_22700692	NC_021163.1	Ca_Kabuli_Chr04	22700692	TT	AA	AA	INTERGENIC			
SNP_22597_A_22703200	NC_021163.1	Ca_Kabuli_Chr04	22703200	CC	TT	TT	INTERGENIC			
SNP_22598_A_22703225	NC_021163.1	Ca_Kabuli_Chr04	22703225	CC	TT	TT	INTERGENIC			
SNP_22599_A_22703496	NC_021163.1	Ca_Kabuli_Chr04	22703496	CC	TT	TT	INTERGENIC			
SNP_22600_A_22703796	NC_021163.1	Ca_Kabuli_Chr04	22703796	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22601_A_22703797	NC_021163.1	Ca_Kabuli_Chr04	22703797	TT		CC	CC	INTERGENIC		
SNP_22602_A_22704061	NC_021163.1	Ca_Kabuli_Chr04	22704061	AA		TT	TT	INTERGENIC		
SNP_22603_A_22705236	NC_021163.1	Ca_Kabuli_Chr04	22705236	GG		TT	TT	INTERGENIC		
SNP_22604_A_22719087	NC_021163.1	Ca_Kabuli_Chr04	22719087	GG		AA	AA	INTERGENIC		
SNP_22606_A_22720210	NC_021163.1	Ca_Kabuli_Chr04	22720210	AA		GG	GG	DRR	101493834	myosin-binding protein 7-like
SNP_22607_A_22723774	NC_021163.1	Ca_Kabuli_Chr04	22723774	AA		TT	TT	INTRON	101493834	myosin-binding protein 7-like
SNP_22609_A_22724028	NC_021163.1	Ca_Kabuli_Chr04	22724028	GG		CC	CC	INTRON	101493834	myosin-binding protein 7-like
SNP_22610_A_22724089	NC_021163.1	Ca_Kabuli_Chr04	22724089	AA		TT	TT	INTRON	101493834	myosin-binding protein 7-like
SNP_22611_A_22727787	NC_021163.1	Ca_Kabuli_Chr04	22727787	AA		GG	GG	INTERGENIC		
SNP_22612_A_22727821	NC_021163.1	Ca_Kabuli_Chr04	22727821	GG		TT	TT	INTERGENIC		
SNP_22614_A_22730920	NC_021163.1	Ca_Kabuli_Chr04	22730920	AA		GG	GG	INTRON	101494161	calcium-dependent protein kinase 20
SNP_22615_A_22731313	NC_021163.1	Ca_Kabuli_Chr04	22731313	CC		TT	TT	INTRON	101494161	calcium-dependent protein kinase 20
SNP_22616_A_22734367	NC_021163.1	Ca_Kabuli_Chr04	22734367	GG		AA	AA	DRR	101494161	calcium-dependent protein kinase 20
SNP_22618_A_22736536	NC_021163.1	Ca_Kabuli_Chr04	22736536	CC		TT	TT	URR	101494161	calcium-dependent protein kinase 20
SNP_22619_A_22736581	NC_021163.1	Ca_Kabuli_Chr04	22736581	CC		TT	TT	URR	101494161	calcium-dependent protein kinase 20
SNP_22621_A_22746166	NC_021163.1	Ca_Kabuli_Chr04	22746166	AA		GG	GG	INTERGENIC		
SNP_22622_A_22746180	NC_021163.1	Ca_Kabuli_Chr04	22746180	GG		CC	CC	INTERGENIC		
SNP_22623_A_22747463	NC_021163.1	Ca_Kabuli_Chr04	22747463	CC		TT	TT	INTERGENIC		
SNP_22624_A_22748826	NC_021163.1	Ca_Kabuli_Chr04	22748826	CC		TT	TT	INTERGENIC		
SNP_22627_A_22750324	NC_021163.1	Ca_Kabuli_Chr04	22750324	AA		TT	TT	INTERGENIC		
SNP_22628_A_22754483	NC_021163.1	Ca_Kabuli_Chr04	22754483	AA		GG	GG	INTERGENIC		
SNP_22629_A_22755119	NC_021163.1	Ca_Kabuli_Chr04	22755119	GG		TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22631_A_22755259	NC_021163.1	Ca_Kabuli_Chr04	22755259	TT	CC	CC	INTERGENIC			
SNP_22632_A_22755547	NC_021163.1	Ca_Kabuli_Chr04	22755547	GG	AA	AA	INTERGENIC			
SNP_22633_A_22759596	NC_021163.1	Ca_Kabuli_Chr04	22759596	GG	CC	CC	INTERGENIC			
SNP_22634_A_22759822	NC_021163.1	Ca_Kabuli_Chr04	22759822	AA	GG	GG	INTERGENIC			
SNP_22635_A_22759843	NC_021163.1	Ca_Kabuli_Chr04	22759843	GG	AA	AA	INTERGENIC			
SNP_22636_A_22764450	NC_021163.1	Ca_Kabuli_Chr04	22764450	CC	TT	TT	INTERGENIC			
SNP_22637_A_22764814	NC_021163.1	Ca_Kabuli_Chr04	22764814	GG	AA	AA	INTERGENIC			
SNP_22638_A_22764850	NC_021163.1	Ca_Kabuli_Chr04	22764850	AA	GG	GG	INTERGENIC			
SNP_22639_A_22765100	NC_021163.1	Ca_Kabuli_Chr04	22765100	AA	GG	GG	INTERGENIC			
SNP_22640_A_22765452	NC_021163.1	Ca_Kabuli_Chr04	22765452	TT	CC	CC	INTERGENIC			
SNP_22643_A_22766516	NC_021163.1	Ca_Kabuli_Chr04	22766516	AA	GG	GG	INTERGENIC			
SNP_22644_A_22766520	NC_021163.1	Ca_Kabuli_Chr04	22766520	AA	TT	TT	INTERGENIC			
SNP_22645_A_22766521	NC_021163.1	Ca_Kabuli_Chr04	22766521	AA	TT	TT	INTERGENIC			
SNP_22646_A_22766556	NC_021163.1	Ca_Kabuli_Chr04	22766556	CC	AA	AA	INTERGENIC			
SNP_22648_A_22766884	NC_021163.1	Ca_Kabuli_Chr04	22766884	AA	GG	GG	INTERGENIC			
SNP_22649_A_22766889	NC_021163.1	Ca_Kabuli_Chr04	22766889	AA	GG	GG	INTERGENIC			
SNP_22651_A_22767399	NC_021163.1	Ca_Kabuli_Chr04	22767399	CC	TT	TT	INTERGENIC			
SNP_22652_A_22767402	NC_021163.1	Ca_Kabuli_Chr04	22767402	AA	GG	GG	INTERGENIC			
SNP_22653_A_22767701	NC_021163.1	Ca_Kabuli_Chr04	22767701	GG	AA	AA	INTERGENIC			
SNP_22654_A_22767904	NC_021163.1	Ca_Kabuli_Chr04	22767904	CC	TT	TT	INTERGENIC			
SNP_22655_A_22767934	NC_021163.1	Ca_Kabuli_Chr04	22767934	AA	TT	TT	INTERGENIC			
SNP_22656_A_22775092	NC_021163.1	Ca_Kabuli_Chr04	22775092	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22657_A_22780875	NC_021163.1	Ca_Kabuli_Chr04	22780875	AA	GG	GG	INTERGENIC		
SNP_22658_A_22783222	NC_021163.1	Ca_Kabuli_Chr04	22783222	CC	TT	TT	INTERGENIC		
SNP_22659_A_22783471	NC_021163.1	Ca_Kabuli_Chr04	22783471	CC	AA	AA	INTERGENIC		
SNP_22660_A_22783476	NC_021163.1	Ca_Kabuli_Chr04	22783476	TT	CC	CC	INTERGENIC		
SNP_22661_A_22785835	NC_021163.1	Ca_Kabuli_Chr04	22785835	AA	TT	TT	INTERGENIC		
SNP_22662_A_22785861	NC_021163.1	Ca_Kabuli_Chr04	22785861	GG	CC	CC	INTERGENIC		
SNP_22663_A_22788862	NC_021163.1	Ca_Kabuli_Chr04	22788862	TT	CC	CC	INTERGENIC		
SNP_22664_A_22788872	NC_021163.1	Ca_Kabuli_Chr04	22788872	CC	TT	TT	INTERGENIC		
SNP_22665_A_22789374	NC_021163.1	Ca_Kabuli_Chr04	22789374	TT	CC	CC	INTERGENIC		
SNP_22668_A_22794488	NC_021163.1	Ca_Kabuli_Chr04	22794488	AA	TT	TT	INTRON	101494791	ABC transporter G family member 22-like
SNP_22669_A_22795854	NC_021163.1	Ca_Kabuli_Chr04	22795854	CC	TT	TT	INTRON	101494791	ABC transporter G family member 22-like
SNP_22671_A_22799961	NC_021163.1	Ca_Kabuli_Chr04	22799961	AA	TT	TT	INTRON	101494791	ABC transporter G family member 22-like
SNP_22672_A_22799986	NC_021163.1	Ca_Kabuli_Chr04	22799986	CC	TT	TT	INTRON	101494791	ABC transporter G family member 22-like
SNP_22673_A_22800020	NC_021163.1	Ca_Kabuli_Chr04	22800020	GG	AA	AA	INTRON	101494791	ABC transporter G family member 22-like
SNP_22674_A_22800381	NC_021163.1	Ca_Kabuli_Chr04	22800381	GG	AA	AA	INTRON	101494791	ABC transporter G family member 22-like
SNP_22675_A_22803721	NC_021163.1	Ca_Kabuli_Chr04	22803721	GG	AA	AA	INTRON	101494791	ABC transporter G family member 22-like
SNP_22676_A_22807358	NC_021163.1	Ca_Kabuli_Chr04	22807358	CC	TT	TT	INTERGENIC		
SNP_22677_A_22808692	NC_021163.1	Ca_Kabuli_Chr04	22808692	AA	TT	TT	DRR	101494469	polycopene isomerase, chloroplastic
SNP_22678_A_22808881	NC_021163.1	Ca_Kabuli_Chr04	22808881	TT	CC	CC	DRR	101494469	polycopene isomerase, chloroplastic
SNP_22679_A_22816876	NC_021163.1	Ca_Kabuli_Chr04	22816876	TT	CC	CC	URR	101494469	polycopene isomerase, chloroplastic
SNP_22680_A_22816892	NC_021163.1	Ca_Kabuli_Chr04	22816892	TT	CC	CC	URR	101494469	polycopene isomerase, chloroplastic
SNP_22681_A_22816901	NC_021163.1	Ca_Kabuli_Chr04	22816901	CC	TT	TT	URR	101494469	polycopene isomerase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22682_A_22816915	NC_021163.1	Ca_Kabuli_Chr04	22816915	CC	AA	AA	URR	101494469	prolycopene isomerase, chloroplastic
SNP_22683_A_22816946	NC_021163.1	Ca_Kabuli_Chr04	22816946	AA	GG	GG	URR	101494469	prolycopene isomerase, chloroplastic
SNP_22684_A_22818218	NC_021163.1	Ca_Kabuli_Chr04	22818218	TT	CC	CC	INTERGENIC		
SNP_22685_A_22818540	NC_021163.1	Ca_Kabuli_Chr04	22818540	AA	CC	CC	INTERGENIC		
SNP_22686_A_22818856	NC_021163.1	Ca_Kabuli_Chr04	22818856	AA	GG	GG	INTERGENIC		
SNP_22687_A_22818857	NC_021163.1	Ca_Kabuli_Chr04	22818857	TT	CC	CC	INTERGENIC		
SNP_22688_A_22818868	NC_021163.1	Ca_Kabuli_Chr04	22818868	CC	AA	AA	INTERGENIC		
SNP_22689_A_22818995	NC_021163.1	Ca_Kabuli_Chr04	22818995	AA	GG	GG	INTERGENIC		
SNP_22690_A_22819012	NC_021163.1	Ca_Kabuli_Chr04	22819012	CC	GG	GG	INTERGENIC		
SNP_22691_A_22819020	NC_021163.1	Ca_Kabuli_Chr04	22819020	GG	AA	AA	INTERGENIC		
SNP_22692_A_22819046	NC_021163.1	Ca_Kabuli_Chr04	22819046	CC	AA	AA	INTERGENIC		
SNP_22693_A_22819095	NC_021163.1	Ca_Kabuli_Chr04	22819095	AA	TT	TT	INTERGENIC		
SNP_22694_A_22819252	NC_021163.1	Ca_Kabuli_Chr04	22819252	TT	CC	CC	INTERGENIC		
SNP_22695_A_22819258	NC_021163.1	Ca_Kabuli_Chr04	22819258	CC	AA	AA	INTERGENIC		
SNP_22696_A_22819269	NC_021163.1	Ca_Kabuli_Chr04	22819269	AA	GG	GG	INTERGENIC		
SNP_22697_A_22819322	NC_021163.1	Ca_Kabuli_Chr04	22819322	CC	TT	TT	INTERGENIC		
SNP_22698_A_22820479	NC_021163.1	Ca_Kabuli_Chr04	22820479	TT	CC	CC	INTERGENIC		
SNP_22699_A_22820632	NC_021163.1	Ca_Kabuli_Chr04	22820632	GG	TT	TT	INTERGENIC		
SNP_22700_A_22821454	NC_021163.1	Ca_Kabuli_Chr04	22821454	AA	GG	GG	INTERGENIC		
SNP_22702_A_22824661	NC_021163.1	Ca_Kabuli_Chr04	22824661	AA	GG	GG	INTERGENIC		
SNP_22703_A_22824892	NC_021163.1	Ca_Kabuli_Chr04	22824892	GG	TT	TT	DRR	101495120	sucrose-phosphatase 1-like
SNP_22704_A_22824924	NC_021163.1	Ca_Kabuli_Chr04	22824924	TT	CC	CC	DRR	101495120	sucrose-phosphatase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22705_A_22825010	NC_021163.1	Ca_Kabuli_Chr04	22825010	CC	AA	AA	DRR	101495120	sucrose-phosphatase 1-like
SNP_22706_A_22825027	NC_021163.1	Ca_Kabuli_Chr04	22825027	GG	AA	AA	DRR	101495120	sucrose-phosphatase 1-like
SNP_22708_A_22825104	NC_021163.1	Ca_Kabuli_Chr04	22825104	TT	CC	CC	DRR	101495120	sucrose-phosphatase 1-like
SNP_22709_A_22825111	NC_021163.1	Ca_Kabuli_Chr04	22825111	AA	GG	GG	DRR	101495120	sucrose-phosphatase 1-like
SNP_22710_A_22832972	NC_021163.1	Ca_Kabuli_Chr04	22832972	AA	GG	GG	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_22711_A_22833560	NC_021163.1	Ca_Kabuli_Chr04	22833560	GG	AA	AA	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_22712_A_22836522	NC_021163.1	Ca_Kabuli_Chr04	22836522	CC	AA	AA	DRR	101515335	Unknown function
SNP_22715_A_22838016	NC_021163.1	Ca_Kabuli_Chr04	22838016	AA	GG	GG	URR	101515335	Unknown function
SNP_22716_A_22838122	NC_021163.1	Ca_Kabuli_Chr04	22838122	GG	AA	AA	URR	101515335	Unknown function
SNP_22717_A_22848597	NC_021163.1	Ca_Kabuli_Chr04	22848597	TT	CC	CC	INTERGENIC		
SNP_22719_A_22853938	NC_021163.1	Ca_Kabuli_Chr04	22853938	CC	TT	TT	INTERGENIC		
SNP_22720_A_22862791	NC_021163.1	Ca_Kabuli_Chr04	22862791	CC	TT	TT	DRR	101496099	eukaryotic translation initiation factor 5B-like
SNP_22721_A_22863376	NC_021163.1	Ca_Kabuli_Chr04	22863376	GG	TT	TT	DRR	101496099	eukaryotic translation initiation factor 5B-like
SNP_22722_A_22864182	NC_021163.1	Ca_Kabuli_Chr04	22864182	GG	AA	AA	URR	101495777	putative RNA polymerase II subunit B1 CTD phosphatase RPAP2 homolog
SNP_22725_A_22870534	NC_021163.1	Ca_Kabuli_Chr04	22870534	TT	AA	AA	INTERGENIC		
SNP_22726_A_22870624	NC_021163.1	Ca_Kabuli_Chr04	22870624	AA	CC	CC	INTERGENIC		
SNP_22727_A_22870642	NC_021163.1	Ca_Kabuli_Chr04	22870642	CC	TT	TT	INTERGENIC		
SNP_22728_A_22870655	NC_021163.1	Ca_Kabuli_Chr04	22870655	GG	AA	AA	INTERGENIC		
SNP_22729_A_22879225	NC_021163.1	Ca_Kabuli_Chr04	22879225	CC	AA	AA	INTERGENIC		
SNP_22730_A_22880412	NC_021163.1	Ca_Kabuli_Chr04	22880412	AA	TT	TT	INTERGENIC		
SNP_22731_A_22882884	NC_021163.1	Ca_Kabuli_Chr04	22882884	TT	CC	CC	INTERGENIC		
SNP_22732_A_22883317	NC_021163.1	Ca_Kabuli_Chr04	22883317	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22733_A_22883493	NC_021163.1	Ca_Kabuli_Chr04	22883493	GG	AA	AA	INTERGENIC		
SNP_22735_A_22884748	NC_021163.1	Ca_Kabuli_Chr04	22884748	GG	CC	CC	INTERGENIC		
SNP_22736_A_22889612	NC_021163.1	Ca_Kabuli_Chr04	22889612	CC	AA	AA	INTERGENIC		
SNP_22738_A_22890028	NC_021163.1	Ca_Kabuli_Chr04	22890028	AA	TT	TT	INTERGENIC		
SNP_22739_A_22890062	NC_021163.1	Ca_Kabuli_Chr04	22890062	AA	GG	GG	INTERGENIC		
SNP_22740_A_22890355	NC_021163.1	Ca_Kabuli_Chr04	22890355	TT	CC	CC	INTERGENIC		
SNP_22741_A_22894592	NC_021163.1	Ca_Kabuli_Chr04	22894592	TT	GG	GG	INTERGENIC		
SNP_22742_A_22896684	NC_021163.1	Ca_Kabuli_Chr04	22896684	AA	TT	TT	INTERGENIC		
SNP_22743_A_22896859	NC_021163.1	Ca_Kabuli_Chr04	22896859	TT	GG	GG	INTERGENIC		
SNP_22747_A_22900812	NC_021163.1	Ca_Kabuli_Chr04	22900812	AA	GG	GG	INTRON	101496428	calcium-dependent protein kinase 1-like
SNP_22748_A_22900814	NC_021163.1	Ca_Kabuli_Chr04	22900814	TT	AA	AA	INTRON	101496428	calcium-dependent protein kinase 1-like
SNP_22749_A_22900853	NC_021163.1	Ca_Kabuli_Chr04	22900853	TT	GG	GG	INTRON	101496428	calcium-dependent protein kinase 1-like
SNP_22750_A_22900878	NC_021163.1	Ca_Kabuli_Chr04	22900878	GG	AA	AA	INTRON	101496428	calcium-dependent protein kinase 1-like
SNP_22751_A_22901184	NC_021163.1	Ca_Kabuli_Chr04	22901184	CC	TT	TT	INTERGENIC		
SNP_22753_A_22901978	NC_021163.1	Ca_Kabuli_Chr04	22901978	CC	AA	AA	INTERGENIC		
SNP_22754_A_22901997	NC_021163.1	Ca_Kabuli_Chr04	22901997	AA	GG	GG	INTERGENIC		
SNP_22755_A_22902346	NC_021163.1	Ca_Kabuli_Chr04	22902346	TT	AA	AA	INTERGENIC		
SNP_22756_A_22902373	NC_021163.1	Ca_Kabuli_Chr04	22902373	CC	GG	GG	INTERGENIC		
SNP_22757_A_22902420	NC_021163.1	Ca_Kabuli_Chr04	22902420	GG	AA	AA	INTERGENIC		
SNP_22758_A_22906083	NC_021163.1	Ca_Kabuli_Chr04	22906083	AA	GG	GG	DRR	101515661	putative pentatricopeptide repeat-containing protein At5g06400, mitochondrial
SNP_22759_A_22906088	NC_021163.1	Ca_Kabuli_Chr04	22906088	AA	GG	GG	DRR	101515661	putative pentatricopeptide repeat-containing protein At5g06400, mitochondrial
SNP_22761_A_22914142	NC_021163.1	Ca_Kabuli_Chr04	22914142	CC	TT	TT	URR	101496759	D-tyrosyl-tRNA(Tyr) deacylase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22762_A_22914149	NC_021163.1	Ca_Kabuli_Chr04	22914149	TT	GG	GG	URR		101496759	D-tyrosyl-tRNA(Tyr) deacylase
SNP_22763_A_22914293	NC_021163.1	Ca_Kabuli_Chr04	22914293	CC	TT	TT	URR		101496759	D-tyrosyl-tRNA(Tyr) deacylase
SNP_22765_A_22914628	NC_021163.1	Ca_Kabuli_Chr04	22914628	GG	TT	TT	URR		101496759	D-tyrosyl-tRNA(Tyr) deacylase
SNP_22766_A_22914633	NC_021163.1	Ca_Kabuli_Chr04	22914633	AA	GG	GG	URR		101496759	D-tyrosyl-tRNA(Tyr) deacylase
SNP_22767_A_22920834	NC_021163.1	Ca_Kabuli_Chr04	22920834	TT	CC	CC	INTERGENIC			
SNP_22769_A_22923928	NC_021163.1	Ca_Kabuli_Chr04	22923928	TT	CC	CC	INTERGENIC			
SNP_22770_A_22924436	NC_021163.1	Ca_Kabuli_Chr04	22924436	TT	CC	CC	INTERGENIC			
SNP_22771_A_22924697	NC_021163.1	Ca_Kabuli_Chr04	22924697	TT	CC	CC	INTERGENIC			
SNP_22772_A_22925428	NC_021163.1	Ca_Kabuli_Chr04	22925428	CC	TT	TT	INTERGENIC			
SNP_22773_A_22925518	NC_021163.1	Ca_Kabuli_Chr04	22925518	TT	CC	CC	INTERGENIC			
SNP_22774_A_22925539	NC_021163.1	Ca_Kabuli_Chr04	22925539	CC	TT	TT	INTERGENIC			
SNP_22777_A_22934498	NC_021163.1	Ca_Kabuli_Chr04	22934498	TT	CC	CC	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22778_A_22934501	NC_021163.1	Ca_Kabuli_Chr04	22934501	AA	GG	GG	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22779_A_22934538	NC_021163.1	Ca_Kabuli_Chr04	22934538	TT	AA	AA	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22780_A_22934788	NC_021163.1	Ca_Kabuli_Chr04	22934788	CC	TT	TT	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22781_A_22934827	NC_021163.1	Ca_Kabuli_Chr04	22934827	AA	CC	CC	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22782_A_22935317	NC_021163.1	Ca_Kabuli_Chr04	22935317	AA	GG	GG	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22783_A_22935332	NC_021163.1	Ca_Kabuli_Chr04	22935332	CC	TT	TT	URR		101497069	iron-sulfur cluster co-chaperone protein HscB, mitochondrial
SNP_22784_A_22938738	NC_021163.1	Ca_Kabuli_Chr04	22938738	GG	AA	AA	INTERGENIC			
SNP_22785_A_22940144	NC_021163.1	Ca_Kabuli_Chr04	22940144	CC	TT	TT	INTERGENIC			
SNP_22786_A_22943447	NC_021163.1	Ca_Kabuli_Chr04	22943447	CC	TT	TT	INTERGENIC			
SNP_22787_A_22943465	NC_021163.1	Ca_Kabuli_Chr04	22943465	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22788_A_22943494	NC_021163.1	Ca_Kabuli_Chr04	22943494	GG	AA	AA	INTERGENIC		
SNP_22789_A_22945261	NC_021163.1	Ca_Kabuli_Chr04	22945261	TT	CC	CC	INTERGENIC		
SNP_22790_A_22946758	NC_021163.1	Ca_Kabuli_Chr04	22946758	TT	CC	CC	DRR	101497525	uncharacterized LOC101497525
SNP_22791_A_22946761	NC_021163.1	Ca_Kabuli_Chr04	22946761	TT	AA	AA	DRR	101497525	uncharacterized LOC101497525
SNP_22792_A_22947094	NC_021163.1	Ca_Kabuli_Chr04	22947094	AA	GG	GG	DRR	101497525	uncharacterized LOC101497525
SNP_22793_A_22954122	NC_021163.1	Ca_Kabuli_Chr04	22954122	AA	GG	GG	INTRON	101497525	uncharacterized LOC101497525
SNP_22794_A_22957628	NC_021163.1	Ca_Kabuli_Chr04	22957628	TT	CC	CC	INTERGENIC		
SNP_22795_A_22964105	NC_021163.1	Ca_Kabuli_Chr04	22964105	GG	AA	AA	INTERGENIC		
SNP_22796_A_22966568	NC_021163.1	Ca_Kabuli_Chr04	22966568	TT	CC	CC	INTERGENIC		
SNP_22797_A_22967140	NC_021163.1	Ca_Kabuli_Chr04	22967140	CC	AA	AA	DRR	101498269	uncharacterized LOC101498269
SNP_22798_A_22971608	NC_021163.1	Ca_Kabuli_Chr04	22971608	TT	AA	AA	NON_SYNONYMOUS_CODING	101498269	uncharacterized LOC101498269
SNP_22799_A_22973176	NC_021163.1	Ca_Kabuli_Chr04	22973176	AA	TT	TT	URR	101498269	uncharacterized LOC101498269
SNP_22800_A_22973186	NC_021163.1	Ca_Kabuli_Chr04	22973186	GG	TT	TT	URR	101498269	uncharacterized LOC101498269
SNP_22801_A_22973201	NC_021163.1	Ca_Kabuli_Chr04	22973201	AA	GG	GG	URR	101498269	uncharacterized LOC101498269
SNP_22803_A_22974062	NC_021163.1	Ca_Kabuli_Chr04	22974062	CC	AA	AA	URR	101498269	uncharacterized LOC101498269
SNP_22804_A_22974082	NC_021163.1	Ca_Kabuli_Chr04	22974082	TT	GG	GG	URR	101498269	uncharacterized LOC101498269
SNP_22805_A_22974130	NC_021163.1	Ca_Kabuli_Chr04	22974130	CC	TT	TT	URR	101498269	uncharacterized LOC101498269
SNP_22807_A_22974382	NC_021163.1	Ca_Kabuli_Chr04	22974382	CC	TT	TT	URR	101498269	uncharacterized LOC101498269
SNP_22808_A_22976529	NC_021163.1	Ca_Kabuli_Chr04	22976529	GG	AA	AA	INTERGENIC		
SNP_22809_A_22981194	NC_021163.1	Ca_Kabuli_Chr04	22981194	TT	CC	CC	INTERGENIC		
SNP_22811_A_22981229	NC_021163.1	Ca_Kabuli_Chr04	22981229	AA	GG	GG	INTERGENIC		
SNP_22812_A_22981308	NC_021163.1	Ca_Kabuli_Chr04	22981308	CC	TT	TT	INTERGENIC		

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SNP_22813_A_22981332	NC_021163.1	Ca_Kabuli_Chr04	22981332	GG	AA	AA	INTERGENIC			
SNP_22815_A_22981451	NC_021163.1	Ca_Kabuli_Chr04	22981451	TT	AA	AA	INTERGENIC			
SNP_22816_A_22981469	NC_021163.1	Ca_Kabuli_Chr04	22981469	GG	AA	AA	INTERGENIC			
SNP_22817_A_22981489	NC_021163.1	Ca_Kabuli_Chr04	22981489	AA	CC	CC	INTERGENIC			
SNP_22818_A_22981495	NC_021163.1	Ca_Kabuli_Chr04	22981495	CC	TT	TT	INTERGENIC			
SNP_22820_A_22984839	NC_021163.1	Ca_Kabuli_Chr04	22984839	AA	GG	GG	INTERGENIC			
SNP_22821_A_22985735	NC_021163.1	Ca_Kabuli_Chr04	22985735	AA	TT	TT	INTERGENIC			
SNP_22822_A_23002004	NC_021163.1	Ca_Kabuli_Chr04	23002004	CC	TT	TT	INTERGENIC			
SNP_22823_A_23002015	NC_021163.1	Ca_Kabuli_Chr04	23002015	TT	AA	AA	INTERGENIC			
SNP_22824_A_23002017	NC_021163.1	Ca_Kabuli_Chr04	23002017	AA	GG	GG	INTERGENIC			
SNP_22825_A_23002147	NC_021163.1	Ca_Kabuli_Chr04	23002147	GG	AA	AA	INTERGENIC			
SNP_22826_A_23002180	NC_021163.1	Ca_Kabuli_Chr04	23002180	TT	CC	CC	INTERGENIC			
SNP_22827_A_23002188	NC_021163.1	Ca_Kabuli_Chr04	23002188	AA	GG	GG	INTERGENIC			
SNP_22828_A_23002223	NC_021163.1	Ca_Kabuli_Chr04	23002223	TT	CC	CC	INTERGENIC			
SNP_22829_A_23002238	NC_021163.1	Ca_Kabuli_Chr04	23002238	TT	CC	CC	INTERGENIC			
SNP_22830_A_23002248	NC_021163.1	Ca_Kabuli_Chr04	23002248	TT	CC	CC	INTERGENIC			
SNP_22831_A_23002255	NC_021163.1	Ca_Kabuli_Chr04	23002255	AA	GG	GG	INTERGENIC			
SNP_22832_A_23002392	NC_021163.1	Ca_Kabuli_Chr04	23002392	TT	CC	CC	INTERGENIC			
SNP_22833_A_23002428	NC_021163.1	Ca_Kabuli_Chr04	23002428	CC	GG	GG	INTERGENIC			
SNP_22834_A_23002465	NC_021163.1	Ca_Kabuli_Chr04	23002465	GG	AA	AA	INTERGENIC			
SNP_22835_A_23002472	NC_021163.1	Ca_Kabuli_Chr04	23002472	TT	CC	CC	INTERGENIC			
SNP_22836_A_23002478	NC_021163.1	Ca_Kabuli_Chr04	23002478	TT	AA	AA	INTERGENIC			

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SNP_22837_A_23002527	NC_021163.1	Ca_Kabuli_Chr04	23002527	CC	TT	TT	INTERGENIC			
SNP_22840_A_23002791	NC_021163.1	Ca_Kabuli_Chr04	23002791	TT	AA	AA	INTERGENIC			
SNP_22841_A_23002880	NC_021163.1	Ca_Kabuli_Chr04	23002880	CC	TT	TT	INTERGENIC			
SNP_22842_A_23002934	NC_021163.1	Ca_Kabuli_Chr04	23002934	AA	GG	GG	INTERGENIC			
SNP_22843_A_23012731	NC_021163.1	Ca_Kabuli_Chr04	23012731	TT	GG	GG	INTERGENIC			
SNP_22844_A_23012889	NC_021163.1	Ca_Kabuli_Chr04	23012889	GG	AA	AA	INTERGENIC			
SNP_22845_A_23018231	NC_021163.1	Ca_Kabuli_Chr04	23018231	CC	TT	TT	INTERGENIC			
SNP_22846_A_23018280	NC_021163.1	Ca_Kabuli_Chr04	23018280	TT	AA	AA	INTERGENIC			
SNP_22848_A_23019150	NC_021163.1	Ca_Kabuli_Chr04	23019150	CC	AA	AA	INTERGENIC			
SNP_22849_A_23019259	NC_021163.1	Ca_Kabuli_Chr04	23019259	GG	AA	AA	INTERGENIC			
SNP_22850_A_23020132	NC_021163.1	Ca_Kabuli_Chr04	23020132	CC	TT	TT	INTERGENIC			
SNP_22851_A_23020170	NC_021163.1	Ca_Kabuli_Chr04	23020170	GG	AA	AA	INTERGENIC			
SNP_22852_A_23020172	NC_021163.1	Ca_Kabuli_Chr04	23020172	TT	CC	CC	INTERGENIC			
SNP_22853_A_23020179	NC_021163.1	Ca_Kabuli_Chr04	23020179	GG	AA	AA	INTERGENIC			
SNP_22855_A_23020274	NC_021163.1	Ca_Kabuli_Chr04	23020274	CC	TT	TT	INTERGENIC			
SNP_22857_A_23027457	NC_021163.1	Ca_Kabuli_Chr04	23027457	CC	TT	TT	INTERGENIC			
SNP_22858_A_23027472	NC_021163.1	Ca_Kabuli_Chr04	23027472	AA	TT	TT	INTERGENIC			
SNP_22859_A_23027501	NC_021163.1	Ca_Kabuli_Chr04	23027501	AA	GG	GG	INTERGENIC			
SNP_22860_A_23027509	NC_021163.1	Ca_Kabuli_Chr04	23027509	CC	TT	TT	INTERGENIC			
SNP_22861_A_23027519	NC_021163.1	Ca_Kabuli_Chr04	23027519	GG	TT	TT	INTERGENIC			
SNP_22862_A_23027544	NC_021163.1	Ca_Kabuli_Chr04	23027544	AA	GG	GG	INTERGENIC			
SNP_22863_A_23027545	NC_021163.1	Ca_Kabuli_Chr04	23027545	GG	AA	AA	INTERGENIC			

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SNP_22864_A_23027827	NC_021163.1	Ca_Kabuli_Chr04	23027827	CC	AA	AA	INTERGENIC			
SNP_22865_A_23032211	NC_021163.1	Ca_Kabuli_Chr04	23032211	GG	AA	AA	INTERGENIC			
SNP_22866_A_23032315	NC_021163.1	Ca_Kabuli_Chr04	23032315	CC	TT	TT	INTERGENIC			
SNP_22867_A_23032318	NC_021163.1	Ca_Kabuli_Chr04	23032318	TT	GG	GG	INTERGENIC			
SNP_22868_A_23033294	NC_021163.1	Ca_Kabuli_Chr04	23033294	TT	CC	CC	INTERGENIC			
SNP_22869_A_23034261	NC_021163.1	Ca_Kabuli_Chr04	23034261	AA	TT	TT	INTERGENIC			
SNP_22870_A_23034357	NC_021163.1	Ca_Kabuli_Chr04	23034357	TT	GG	GG	INTERGENIC			
SNP_22871_A_23034372	NC_021163.1	Ca_Kabuli_Chr04	23034372	TT	CC	CC	INTERGENIC			
SNP_22872_A_23034639	NC_021163.1	Ca_Kabuli_Chr04	23034639	TT	GG	GG	INTERGENIC			
SNP_22873_A_23036790	NC_021163.1	Ca_Kabuli_Chr04	23036790	CC	TT	TT	INTERGENIC			
SNP_22874_A_23036811	NC_021163.1	Ca_Kabuli_Chr04	23036811	GG	AA	AA	INTERGENIC			
SNP_22875_A_23036963	NC_021163.1	Ca_Kabuli_Chr04	23036963	TT	GG	GG	INTERGENIC			
SNP_22876_A_23037662	NC_021163.1	Ca_Kabuli_Chr04	23037662	GG	TT	TT	INTERGENIC			
SNP_22877_A_23037720	NC_021163.1	Ca_Kabuli_Chr04	23037720	GG	TT	TT	INTERGENIC			
SNP_22878_A_23039036	NC_021163.1	Ca_Kabuli_Chr04	23039036	CC	TT	TT	INTERGENIC			
SNP_22879_A_23039037	NC_021163.1	Ca_Kabuli_Chr04	23039037	GG	AA	AA	INTERGENIC			
SNP_22880_A_23039052	NC_021163.1	Ca_Kabuli_Chr04	23039052	CC	GG	GG	INTERGENIC			
SNP_22881_A_23039914	NC_021163.1	Ca_Kabuli_Chr04	23039914	GG	TT	TT	INTERGENIC			
SNP_22882_A_23040200	NC_021163.1	Ca_Kabuli_Chr04	23040200	GG	TT	TT	INTERGENIC			
SNP_22883_A_23040402	NC_021163.1	Ca_Kabuli_Chr04	23040402	TT	CC	CC	INTERGENIC			
SNP_22884_A_23040756	NC_021163.1	Ca_Kabuli_Chr04	23040756	GG	AA	AA	INTERGENIC			
SNP_22885_A_23040776	NC_021163.1	Ca_Kabuli_Chr04	23040776	CC	TT	TT	INTERGENIC			

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SNP_22886_A_23042079	NC_021163.1	Ca_Kabuli_Chr04	23042079	AA	CC	CC	INTERGENIC		
SNP_22887_A_23048981	NC_021163.1	Ca_Kabuli_Chr04	23048981	CC	TT	TT	INTERGENIC		
SNP_22888_A_23048998	NC_021163.1	Ca_Kabuli_Chr04	23048998	AA	GG	GG	INTERGENIC		
SNP_22889_A_23050576	NC_021163.1	Ca_Kabuli_Chr04	23050576	TT	CC	CC	DRR	101499059	uncharacterized LOC101499059
SNP_22890_A_23050659	NC_021163.1	Ca_Kabuli_Chr04	23050659	GG	TT	TT	DRR	101499059	uncharacterized LOC101499059
SNP_22891_A_23050687	NC_021163.1	Ca_Kabuli_Chr04	23050687	AA	TT	TT	DRR	101499059	uncharacterized LOC101499059
SNP_22892_A_23050857	NC_021163.1	Ca_Kabuli_Chr04	23050857	AA	TT	TT	DRR	101499059	uncharacterized LOC101499059
SNP_22893_A_23055274	NC_021163.1	Ca_Kabuli_Chr04	23055274	TT	CC	CC	URR	101499059	uncharacterized LOC101499059
SNP_22894_A_23055310	NC_021163.1	Ca_Kabuli_Chr04	23055310	CC	TT	TT	URR	101499059	uncharacterized LOC101499059
SNP_22897_A_23058465	NC_021163.1	Ca_Kabuli_Chr04	23058465	GG	AA	AA	INTERGENIC		
SNP_22898_A_23058467	NC_021163.1	Ca_Kabuli_Chr04	23058467	CC	TT	TT	INTERGENIC		
SNP_22899_A_23058484	NC_021163.1	Ca_Kabuli_Chr04	23058484	GG	AA	AA	INTERGENIC		
SNP_22900_A_23060360	NC_021163.1	Ca_Kabuli_Chr04	23060360	AA	CC	CC	INTERGENIC		
SNP_22901_A_23060363	NC_021163.1	Ca_Kabuli_Chr04	23060363	TT	GG	GG	INTERGENIC		
SNP_22903_A_23067083	NC_021163.1	Ca_Kabuli_Chr04	23067083	AA	GG	GG	INTRON	101499372	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179
SNP_22904_A_23067319	NC_021163.1	Ca_Kabuli_Chr04	23067319	CC	TT	TT	INTRON	101499372	putative phosphatidylglycerol/phosphatidylinositol transfer protein DDB_G0282179
SNP_22907_A_23077417	NC_021163.1	Ca_Kabuli_Chr04	23077417	CC	GG	GG	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22908_A_23077538	NC_021163.1	Ca_Kabuli_Chr04	23077538	AA	GG	GG	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22909_A_23077541	NC_021163.1	Ca_Kabuli_Chr04	23077541	TT	CC	CC	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22911_A_23077692	NC_021163.1	Ca_Kabuli_Chr04	23077692	TT	AA	AA	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22912_A_23077768	NC_021163.1	Ca_Kabuli_Chr04	23077768	TT	CC	CC	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22913_A_23077886	NC_021163.1	Ca_Kabuli_Chr04	23077886	GG	AA	AA	URR	101499680	RING-H2 finger protein ATL70-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22914_A_23077897	NC_021163.1	Ca_Kabuli_Chr04	23077897	TT	CC	CC	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22915_A_23077919	NC_021163.1	Ca_Kabuli_Chr04	23077919	GG	AA	AA	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22917_A_23079115	NC_021163.1	Ca_Kabuli_Chr04	23079115	AA	GG	GG	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22918_A_23079127	NC_021163.1	Ca_Kabuli_Chr04	23079127	GG	CC	CC	URR	101499680	RING-H2 finger protein ATL70-like
SNP_22919_A_23079204	NC_021163.1	Ca_Kabuli_Chr04	23079204	AA	GG	GG	INTERGENIC		
SNP_22921_A_23098875	NC_021163.1	Ca_Kabuli_Chr04	23098875	GG	AA	AA	INTERGENIC		
SNP_22922_A_23105108	NC_021163.1	Ca_Kabuli_Chr04	23105108	CC	TT	TT	INTRON	101499989	uncharacterized LOC101499989
SNP_22923_A_23109069	NC_021163.1	Ca_Kabuli_Chr04	23109069	TT	CC	CC	URR	101499989	uncharacterized LOC101499989
SNP_22924_A_23112217	NC_021163.1	Ca_Kabuli_Chr04	23112217	CC	TT	TT	INTERGENIC		
SNP_22925_A_23112233	NC_021163.1	Ca_Kabuli_Chr04	23112233	TT	CC	CC	INTERGENIC		
SNP_22926_A_23117300	NC_021163.1	Ca_Kabuli_Chr04	23117300	TT	GG	GG	INTERGENIC		
SNP_22927_A_23117836	NC_021163.1	Ca_Kabuli_Chr04	23117836	AA	CC	CC	INTERGENIC		
SNP_22928_A_23120614	NC_021163.1	Ca_Kabuli_Chr04	23120614	TT	GG	GG	INTERGENIC		
SNP_22929_A_23130064	NC_021163.1	Ca_Kabuli_Chr04	23130064	AA	GG	GG	INTERGENIC		
SNP_22930_A_23130082	NC_021163.1	Ca_Kabuli_Chr04	23130082	AA	GG	GG	INTERGENIC		
SNP_22933_A_23135516	NC_021163.1	Ca_Kabuli_Chr04	23135516	GG	AA	AA	INTERGENIC		
SNP_22934_A_23135566	NC_021163.1	Ca_Kabuli_Chr04	23135566	TT	AA	AA	INTERGENIC		
SNP_22935_A_23135827	NC_021163.1	Ca_Kabuli_Chr04	23135827	GG	AA	AA	INTERGENIC		
SNP_22936_A_23136810	NC_021163.1	Ca_Kabuli_Chr04	23136810	AA	GG	GG	INTERGENIC		
SNP_22937_A_23137177	NC_021163.1	Ca_Kabuli_Chr04	23137177	CC	TT	TT	INTERGENIC		
SNP_22938_A_23153853	NC_021163.1	Ca_Kabuli_Chr04	23153853	TT	CC	CC	DRR	101488749	Unknown function
SNP_22939_A_23158926	NC_021163.1	Ca_Kabuli_Chr04	23158926	AA	GG	GG	DRR	101501176	syntxin-121-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_22940_A_23188558	NC_021163.1	Ca_Kabuli_Chr04	23188558	AA	CC	CC	INTERGENIC		
SNP_22942_A_23227269	NC_021163.1	Ca_Kabuli_Chr04	23227269	AA	TT	TT	INTERGENIC		
SNP_22943_A_23251609	NC_021163.1	Ca_Kabuli_Chr04	23251609	AA	GG	GG	INTRON	101489736	cell differentiation protein RCD1 homolog
SNP_22944_A_23277116	NC_021163.1	Ca_Kabuli_Chr04	23277116	CC	TT	TT	INTRON	101490388	Unknown function
SNP_22945_A_23310215	NC_021163.1	Ca_Kabuli_Chr04	23310215	AA	GG	GG	INTRON	101502344	UPF0505 protein C16orf62 homolog
SNP_22946_A_23350691	NC_021163.1	Ca_Kabuli_Chr04	23350691	AA	TT	TT	INTERGENIC		
SNP_22947_A_23350692	NC_021163.1	Ca_Kabuli_Chr04	23350692	AA	CC	CC	INTERGENIC		
SNP_22948_A_23361358	NC_021163.1	Ca_Kabuli_Chr04	23361358	TT	CC	CC	INTERGENIC		
SNP_22949_A_23361800	NC_021163.1	Ca_Kabuli_Chr04	23361800	CC	TT	TT	INTERGENIC		
SNP_22950_A_23398776	NC_021163.1	Ca_Kabuli_Chr04	23398776	CC	TT	TT	INTERGENIC		
SNP_22951_A_23398778	NC_021163.1	Ca_Kabuli_Chr04	23398778	GG	AA	AA	INTERGENIC		
SNP_22952_A_23421482	NC_021163.1	Ca_Kabuli_Chr04	23421482	TT	CC	CC	INTERGENIC		
SNP_22953_A_23421483	NC_021163.1	Ca_Kabuli_Chr04	23421483	AA	CC	CC	INTERGENIC		
SNP_22954_A_23421659	NC_021163.1	Ca_Kabuli_Chr04	23421659	AA	GG	GG	INTERGENIC		
SNP_22955_A_23421683	NC_021163.1	Ca_Kabuli_Chr04	23421683	TT	CC	CC	INTERGENIC		
SNP_22956_A_23421711	NC_021163.1	Ca_Kabuli_Chr04	23421711	CC	AA	AA	INTERGENIC		
SNP_22957_A_23421798	NC_021163.1	Ca_Kabuli_Chr04	23421798	AA	GG	GG	INTERGENIC		
SNP_22958_A_23421800	NC_021163.1	Ca_Kabuli_Chr04	23421800	AA	GG	GG	INTERGENIC		
SNP_22959_A_23421865	NC_021163.1	Ca_Kabuli_Chr04	23421865	TT	CC	CC	INTERGENIC		
SNP_22960_A_23456341	NC_021163.1	Ca_Kabuli_Chr04	23456341	CC	TT	TT	INTRON	101491979	dof zinc finger protein DOF3.5-like
SNP_22961_A_23508620	NC_021163.1	Ca_Kabuli_Chr04	23508620	TT	CC	CC	INTERGENIC		
SNP_22962_A_23508740	NC_021163.1	Ca_Kabuli_Chr04	23508740	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_22963_A_23508757	NC_021163.1	Ca_Kabuli_Chr04	23508757	CC	TT	TT	INTERGENIC			
SNP_22964_A_23518648	NC_021163.1	Ca_Kabuli_Chr04	23518648	GG	AA	AA	INTERGENIC			
SNP_22966_A_23587135	NC_021163.1	Ca_Kabuli_Chr04	23587135	AA	GG	GG	INTERGENIC			
SNP_22967_A_23587138	NC_021163.1	Ca_Kabuli_Chr04	23587138	GG	AA	AA	INTERGENIC			
SNP_22968_A_23587183	NC_021163.1	Ca_Kabuli_Chr04	23587183	GG	CC	CC	INTERGENIC			
SNP_22969_A_23590151	NC_021163.1	Ca_Kabuli_Chr04	23590151	CC	AA	AA	INTERGENIC			
SNP_22970_A_23632486	NC_021163.1	Ca_Kabuli_Chr04	23632486	TT	CC	CC	INTERGENIC			
SNP_22971_A_23634253	NC_021163.1	Ca_Kabuli_Chr04	23634253	CC	GG	GG	NON_SYNONYMOUS_CODING	id84431		Unknown function
SNP_22972_A_23643987	NC_021163.1	Ca_Kabuli_Chr04	23643987	CC	TT	TT	INTERGENIC			
SNP_22973_A_23647020	NC_021163.1	Ca_Kabuli_Chr04	23647020	GG	CC	CC	INTERGENIC			
SNP_22974_A_23664000	NC_021163.1	Ca_Kabuli_Chr04	23664000	TT	CC	CC	INTERGENIC			
SNP_22975_A_23694294	NC_021163.1	Ca_Kabuli_Chr04	23694294	GG	TT	TT	INTERGENIC			
SNP_22976_A_23694305	NC_021163.1	Ca_Kabuli_Chr04	23694305	AA	CC	CC	INTERGENIC			
SNP_22977_A_23694309	NC_021163.1	Ca_Kabuli_Chr04	23694309	TT	CC	CC	INTERGENIC			
SNP_22978_A_23694316	NC_021163.1	Ca_Kabuli_Chr04	23694316	TT	CC	CC	INTERGENIC			
SNP_22979_A_23694330	NC_021163.1	Ca_Kabuli_Chr04	23694330	AA	CC	CC	INTERGENIC			
SNP_22980_A_23694347	NC_021163.1	Ca_Kabuli_Chr04	23694347	TT	GG	GG	INTERGENIC			
SNP_22981_A_23694349	NC_021163.1	Ca_Kabuli_Chr04	23694349	AA	GG	GG	INTERGENIC			
SNP_22982_A_23699517	NC_021163.1	Ca_Kabuli_Chr04	23699517	TT	GG	GG	INTERGENIC			
SNP_22983_A_23699523	NC_021163.1	Ca_Kabuli_Chr04	23699523	TT	GG	GG	INTERGENIC			
SNP_22984_A_23699525	NC_021163.1	Ca_Kabuli_Chr04	23699525	AA	TT	TT	INTERGENIC			
SNP_22985_A_23699532	NC_021163.1	Ca_Kabuli_Chr04	23699532	GG	AA	AA	INTERGENIC			

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SNP_22986_A_23699540	NC_021163.1	Ca_Kabuli_Chr04	23699540	CC	GG	GG	INTERGENIC			
SNP_22987_A_23699628	NC_021163.1	Ca_Kabuli_Chr04	23699628	GG	CC	CC	INTERGENIC			
SNP_22988_A_23699629	NC_021163.1	Ca_Kabuli_Chr04	23699629	TT	CC	CC	INTERGENIC			
SNP_22989_A_23699658	NC_021163.1	Ca_Kabuli_Chr04	23699658	AA	GG	GG	INTERGENIC			
SNP_22990_A_23699807	NC_021163.1	Ca_Kabuli_Chr04	23699807	CC	TT	TT	INTERGENIC			
SNP_22991_A_23699964	NC_021163.1	Ca_Kabuli_Chr04	23699964	AA	TT	TT	INTERGENIC			
SNP_22992_A_23719800	NC_021163.1	Ca_Kabuli_Chr04	23719800	AA	GG	GG	INTERGENIC			
SNP_22993_A_23719813	NC_021163.1	Ca_Kabuli_Chr04	23719813	AA	TT	TT	INTERGENIC			
SNP_22994_A_23719815	NC_021163.1	Ca_Kabuli_Chr04	23719815	TT	AA	AA	INTERGENIC			
SNP_22995_A_23720147	NC_021163.1	Ca_Kabuli_Chr04	23720147	CC	TT	TT	INTERGENIC			
SNP_22996_A_23720227	NC_021163.1	Ca_Kabuli_Chr04	23720227	AA	GG	GG	INTERGENIC			
SNP_22997_A_23720338	NC_021163.1	Ca_Kabuli_Chr04	23720338	AA	GG	GG	INTERGENIC			
SNP_22998_A_23720360	NC_021163.1	Ca_Kabuli_Chr04	23720360	TT	CC	CC	INTERGENIC			
SNP_22999_A_23720873	NC_021163.1	Ca_Kabuli_Chr04	23720873	AA	GG	GG	INTERGENIC			
SNP_23000_A_23721102	NC_021163.1	Ca_Kabuli_Chr04	23721102	GG	CC	CC	INTERGENIC			
SNP_23002_A_23757424	NC_021163.1	Ca_Kabuli_Chr04	23757424	TT	AA	AA	INTERGENIC			
SNP_23003_A_23827811	NC_021163.1	Ca_Kabuli_Chr04	23827811	GG	AA	AA	INTERGENIC			
SNP_23004_A_23827904	NC_021163.1	Ca_Kabuli_Chr04	23827904	CC	TT	TT	INTERGENIC			
SNP_23005_A_23827913	NC_021163.1	Ca_Kabuli_Chr04	23827913	TT	GG	GG	INTERGENIC			
SNP_23006_A_23828033	NC_021163.1	Ca_Kabuli_Chr04	23828033	AA	TT	TT	INTERGENIC			
SNP_23007_A_23828135	NC_021163.1	Ca_Kabuli_Chr04	23828135	GG	AA	AA	INTERGENIC			
SNP_23008_A_23828187	NC_021163.1	Ca_Kabuli_Chr04	23828187	AA	TT	TT	INTERGENIC			

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SNP_23009_A_23828307	NC_021163.1	Ca_Kabuli_Chr04	23828307	CC	TT	TT	INTERGENIC		
SNP_23010_A_23844546	NC_021163.1	Ca_Kabuli_Chr04	23844546	GG	AA	AA	INTERGENIC		
SNP_23011_A_23918850	NC_021163.1	Ca_Kabuli_Chr04	23918850	TT	GG	GG	INTRON	101508663	uncharacterized LOC101508663
SNP_23013_A_23969480	NC_021163.1	Ca_Kabuli_Chr04	23969480	CC	TT	TT	INTERGENIC		
SNP_23014_A_23984815	NC_021163.1	Ca_Kabuli_Chr04	23984815	CC	AA	AA	INTERGENIC		
SNP_23015_A_23991267	NC_021163.1	Ca_Kabuli_Chr04	23991267	GG	AA	AA	INTERGENIC		
SNP_23016_A_24001310	NC_021163.1	Ca_Kabuli_Chr04	24001310	AA	GG	GG	INTERGENIC		
SNP_23017_A_24043941	NC_021163.1	Ca_Kabuli_Chr04	24043941	CC	TT	TT	INTERGENIC		
SNP_23018_A_24057180	NC_021163.1	Ca_Kabuli_Chr04	24057180	TT	CC	CC	URR	101510920	histidine--tRNA ligase
SNP_23019_A_24063613	NC_021163.1	Ca_Kabuli_Chr04	24063613	GG	AA	AA	INTERGENIC		
SNP_23020_A_24063617	NC_021163.1	Ca_Kabuli_Chr04	24063617	TT	CC	CC	INTERGENIC		
SNP_23021_A_24096072	NC_021163.1	Ca_Kabuli_Chr04	24096072	AA	GG	GG	INTERGENIC		
SNP_23023_A_24110470	NC_021163.1	Ca_Kabuli_Chr04	24110470	TT	AA	AA	INTERGENIC		
SNP_23024_A_24112693	NC_021163.1	Ca_Kabuli_Chr04	24112693	GG	TT	TT	STOP_GAINED	101495546	transcription repressor OFP15
SNP_23025_A_24113024	NC_021163.1	Ca_Kabuli_Chr04	24113024	TT	GG	GG	NON_SYNONYMOUS_CODING	101495546	transcription repressor OFP15
SNP_23028_A_24143322	NC_021163.1	Ca_Kabuli_Chr04	24143322	GG	AA	AA	INTERGENIC		
SNP_23029_A_24189968	NC_021163.1	Ca_Kabuli_Chr04	24189968	AA	TT	TT	INTERGENIC		
SNP_23030_A_24189975	NC_021163.1	Ca_Kabuli_Chr04	24189975	GG	TT	TT	INTERGENIC		
SNP_23031_A_24219555	NC_021163.1	Ca_Kabuli_Chr04	24219555	AA	GG	GG	INTERGENIC		
SNP_23033_A_24286631	NC_021163.1	Ca_Kabuli_Chr04	24286631	GG	AA	AA	INTERGENIC		
SNP_23034_A_24311759	NC_021163.1	Ca_Kabuli_Chr04	24311759	AA	TT	TT	INTERGENIC		
SNP_23035_A_24326929	NC_021163.1	Ca_Kabuli_Chr04	24326929	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23036_A_24341200	NC_021163.1	Ca_Kabuli_Chr04	24341200	AA	CC	CC	INTERGENIC			
SNP_23037_A_24350107	NC_021163.1	Ca_Kabuli_Chr04	24350107	TT	CC	CC	INTERGENIC			
SNP_23038_A_24350109	NC_021163.1	Ca_Kabuli_Chr04	24350109	TT	AA	AA	INTERGENIC			
SNP_23039_A_24350136	NC_021163.1	Ca_Kabuli_Chr04	24350136	TT	CC	CC	INTERGENIC			
SNP_23040_A_24350159	NC_021163.1	Ca_Kabuli_Chr04	24350159	TT	GG	GG	INTERGENIC			
SNP_23041_A_24350213	NC_021163.1	Ca_Kabuli_Chr04	24350213	TT	CC	CC	INTERGENIC			
SNP_23042_A_24350372	NC_021163.1	Ca_Kabuli_Chr04	24350372	CC	TT	TT	INTERGENIC			
SNP_23043_A_24350424	NC_021163.1	Ca_Kabuli_Chr04	24350424	AA	GG	GG	INTERGENIC			
SNP_23044_A_24356954	NC_021163.1	Ca_Kabuli_Chr04	24356954	TT	GG	GG	INTERGENIC			
SNP_23045_A_24357057	NC_021163.1	Ca_Kabuli_Chr04	24357057	TT	GG	GG	INTERGENIC			
SNP_23046_A_24357070	NC_021163.1	Ca_Kabuli_Chr04	24357070	TT	GG	GG	INTERGENIC			
SNP_23049_A_24378320	NC_021163.1	Ca_Kabuli_Chr04	24378320	TT	GG	GG	INTERGENIC			
SNP_23050_A_24379880	NC_021163.1	Ca_Kabuli_Chr04	24379880	GG	AA	AA	INTERGENIC			
SNP_23051_A_24398858	NC_021163.1	Ca_Kabuli_Chr04	24398858	TT	CC	CC	INTERGENIC			
SNP_23052_A_24426602	NC_021163.1	Ca_Kabuli_Chr04	24426602	CC	TT	TT	INTERGENIC			
SNP_23054_A_24427653	NC_021163.1	Ca_Kabuli_Chr04	24427653	TT	GG	GG	INTERGENIC			
SNP_23055_A_24436836	NC_021163.1	Ca_Kabuli_Chr04	24436836	CC	AA	AA	INTERGENIC			
SNP_23056_A_24437885	NC_021163.1	Ca_Kabuli_Chr04	24437885	CC	TT	TT	INTERGENIC			
SNP_23057_A_24438182	NC_021163.1	Ca_Kabuli_Chr04	24438182	AA	CC	CC	INTERGENIC			
SNP_23058_A_24438228	NC_021163.1	Ca_Kabuli_Chr04	24438228	TT	CC	CC	INTERGENIC			
SNP_23059_A_24438244	NC_021163.1	Ca_Kabuli_Chr04	24438244	CC	TT	TT	INTERGENIC			
SNP_23060_A_24442898	NC_021163.1	Ca_Kabuli_Chr04	24442898	TT	CC	CC	INTERGENIC			

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SNP_23061_A_24442902	NC_021163.1	Ca_Kabuli_Chr04	24442902	GG	CC	CC	INTERGENIC			
SNP_23062_A_24442904	NC_021163.1	Ca_Kabuli_Chr04	24442904	GG	AA	AA	INTERGENIC			
SNP_23063_A_24442906	NC_021163.1	Ca_Kabuli_Chr04	24442906	GG	AA	AA	INTERGENIC			
SNP_23064_A_24442907	NC_021163.1	Ca_Kabuli_Chr04	24442907	TT	CC	CC	INTERGENIC			
SNP_23065_A_24442909	NC_021163.1	Ca_Kabuli_Chr04	24442909	TT	CC	CC	INTERGENIC			
SNP_23067_A_24453336	NC_021163.1	Ca_Kabuli_Chr04	24453336	GG	AA	AA	INTERGENIC			
SNP_23068_A_24453377	NC_021163.1	Ca_Kabuli_Chr04	24453377	TT	GG	GG	INTERGENIC			
SNP_23069_A_24453397	NC_021163.1	Ca_Kabuli_Chr04	24453397	AA	CC	CC	INTERGENIC			
SNP_23070_A_24453419	NC_021163.1	Ca_Kabuli_Chr04	24453419	AA	TT	TT	INTERGENIC			
SNP_23071_A_24453421	NC_021163.1	Ca_Kabuli_Chr04	24453421	AA	CC	CC	INTERGENIC			
SNP_23072_A_24453422	NC_021163.1	Ca_Kabuli_Chr04	24453422	AA	GG	GG	INTERGENIC			
SNP_23073_A_24453433	NC_021163.1	Ca_Kabuli_Chr04	24453433	AA	TT	TT	INTERGENIC			
SNP_23074_A_24453739	NC_021163.1	Ca_Kabuli_Chr04	24453739	TT	AA	AA	INTERGENIC			
SNP_23075_A_24453750	NC_021163.1	Ca_Kabuli_Chr04	24453750	AA	GG	GG	INTERGENIC			
SNP_23076_A_24453752	NC_021163.1	Ca_Kabuli_Chr04	24453752	AA	TT	TT	INTERGENIC			
SNP_23078_A_24456669	NC_021163.1	Ca_Kabuli_Chr04	24456669	TT	CC	CC	INTERGENIC			
SNP_23079_A_24456938	NC_021163.1	Ca_Kabuli_Chr04	24456938	AA	GG	GG	INTERGENIC			
SNP_23080_A_24478812	NC_021163.1	Ca_Kabuli_Chr04	24478812	AA	GG	GG	INTERGENIC			
SNP_23081_A_24478837	NC_021163.1	Ca_Kabuli_Chr04	24478837	TT	CC	CC	INTERGENIC			
SNP_23082_A_24478841	NC_021163.1	Ca_Kabuli_Chr04	24478841	AA	CC	CC	INTERGENIC			
SNP_23085_A_24479137	NC_021163.1	Ca_Kabuli_Chr04	24479137	CC	TT	TT	INTERGENIC			
SNP_23086_A_24479172	NC_021163.1	Ca_Kabuli_Chr04	24479172	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23087_A_24479186	NC_021163.1	Ca_Kabuli_Chr04	24479186	AA	TT	TT	INTERGENIC			
SNP_23088_A_24479187	NC_021163.1	Ca_Kabuli_Chr04	24479187	AA	TT	TT	INTERGENIC			
SNP_23089_A_24479189	NC_021163.1	Ca_Kabuli_Chr04	24479189	TT	AA	AA	INTERGENIC			
SNP_23090_A_24479205	NC_021163.1	Ca_Kabuli_Chr04	24479205	GG	AA	AA	INTERGENIC			
SNP_23091_A_24479225	NC_021163.1	Ca_Kabuli_Chr04	24479225	CC	AA	AA	INTERGENIC			
SNP_23092_A_24483368	NC_021163.1	Ca_Kabuli_Chr04	24483368	GG	TT	TT	INTERGENIC			
SNP_23093_A_24484637	NC_021163.1	Ca_Kabuli_Chr04	24484637	GG	AA	AA	INTERGENIC			
SNP_23094_A_24494560	NC_021163.1	Ca_Kabuli_Chr04	24494560	GG	AA	AA	INTERGENIC			
SNP_23096_A_24512995	NC_021163.1	Ca_Kabuli_Chr04	24512995	AA	TT	TT	DRR	101497738	pentatricopeptide repeat-containing protein At2g44880-like	
SNP_23097_A_24519101	NC_021163.1	Ca_Kabuli_Chr04	24519101	CC	TT	TT	INTERGENIC			
SNP_23098_A_24538326	NC_021163.1	Ca_Kabuli_Chr04	24538326	TT	AA	AA	INTERGENIC			
SNP_23099_A_24547807	NC_021163.1	Ca_Kabuli_Chr04	24547807	CC	GG	GG	INTERGENIC			
SNP_23101_A_24556522	NC_021163.1	Ca_Kabuli_Chr04	24556522	CC	AA	AA	INTERGENIC			
SNP_23102_A_24556523	NC_021163.1	Ca_Kabuli_Chr04	24556523	CC	AA	AA	INTERGENIC			
SNP_23103_A_24556535	NC_021163.1	Ca_Kabuli_Chr04	24556535	CC	TT	TT	INTERGENIC			
SNP_23104_A_24560053	NC_021163.1	Ca_Kabuli_Chr04	24560053	GG	TT	TT	INTERGENIC			
SNP_23105_A_24568261	NC_021163.1	Ca_Kabuli_Chr04	24568261	GG	TT	TT	INTERGENIC			
SNP_23106_A_24572946	NC_021163.1	Ca_Kabuli_Chr04	24572946	AA	CC	CC	INTERGENIC			
SNP_23107_A_24581967	NC_021163.1	Ca_Kabuli_Chr04	24581967	CC	AA	AA	INTERGENIC			
SNP_23108_A_24628721	NC_021163.1	Ca_Kabuli_Chr04	24628721	TT	GG	GG	INTERGENIC			
SNP_23109_A_24628729	NC_021163.1	Ca_Kabuli_Chr04	24628729	AA	TT	TT	INTERGENIC			
SNP_23110_A_24657087	NC_021163.1	Ca_Kabuli_Chr04	24657087	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23111_A_2466997	NC_021163.1	Ca_Kabuli_Chr04	2466997	CC	AA	AA	INTERGENIC		
SNP_23113_A_24679360	NC_021163.1	Ca_Kabuli_Chr04	24679360	AA	GG	GG	INTERGENIC		
SNP_23114_A_24692658	NC_021163.1	Ca_Kabuli_Chr04	24692658	CC	GG	GG	INTERGENIC		
SNP_23115_A_24694984	NC_021163.1	Ca_Kabuli_Chr04	24694984	TT	CC	CC	INTERGENIC		
SNP_23116_A_24698498	NC_021163.1	Ca_Kabuli_Chr04	24698498	CC	GG	GG	INTERGENIC		
SNP_23117_A_24703000	NC_021163.1	Ca_Kabuli_Chr04	24703000	CC	TT	TT	INTERGENIC		
SNP_23118_A_24704170	NC_021163.1	Ca_Kabuli_Chr04	24704170	CC	AA	AA	INTERGENIC		
SNP_23119_A_24715325	NC_021163.1	Ca_Kabuli_Chr04	24715325	AA	GG	GG	INTRON	101504369	serine/threonine-protein kinase CTR1-like
SNP_23120_A_24722520	NC_021163.1	Ca_Kabuli_Chr04	24722520	TT	CC	CC	INTRON	101504369	serine/threonine-protein kinase CTR1-like
SNP_23121_A_24736139	NC_021163.1	Ca_Kabuli_Chr04	24736139	GG	CC	CC	INTRON	101504369	serine/threonine-protein kinase CTR1-like
SNP_23122_A_24740712	NC_021163.1	Ca_Kabuli_Chr04	24740712	GG	AA	AA	INTERGENIC		
SNP_23123_A_24760058	NC_021163.1	Ca_Kabuli_Chr04	24760058	AA	GG	GG	INTERGENIC		
SNP_23124_A_24760113	NC_021163.1	Ca_Kabuli_Chr04	24760113	AA	TT	TT	INTERGENIC		
SNP_23125_A_24760391	NC_021163.1	Ca_Kabuli_Chr04	24760391	TT	GG	GG	INTERGENIC		
SNP_23126_A_24760394	NC_021163.1	Ca_Kabuli_Chr04	24760394	TT	CC	CC	INTERGENIC		
SNP_23127_A_24760416	NC_021163.1	Ca_Kabuli_Chr04	24760416	TT	CC	CC	INTERGENIC		
SNP_23128_A_24760417	NC_021163.1	Ca_Kabuli_Chr04	24760417	GG	AA	AA	INTERGENIC		
SNP_23129_A_24760491	NC_021163.1	Ca_Kabuli_Chr04	24760491	GG	AA	AA	INTERGENIC		
SNP_23130_A_24760505	NC_021163.1	Ca_Kabuli_Chr04	24760505	AA	CC	CC	INTERGENIC		
SNP_23131_A_24777146	NC_021163.1	Ca_Kabuli_Chr04	24777146	TT	CC	CC	INTRON	101500533	uncharacterized LOC101500533
SNP_23132_A_24777456	NC_021163.1	Ca_Kabuli_Chr04	24777456	CC	AA	AA	INTRON	101500533	uncharacterized LOC101500533
SNP_23133_A_24777458	NC_021163.1	Ca_Kabuli_Chr04	24777458	AA	GG	GG	INTRON	101500533	uncharacterized LOC101500533

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23134_A_24777507	NC_021163.1	Ca_Kabuli_Chr04	24777507	TT	AA	AA	INTRON	101500533	uncharacterized LOC101500533
SNP_23135_A_24777519	NC_021163.1	Ca_Kabuli_Chr04	24777519	TT	CC	CC	INTRON	101500533	uncharacterized LOC101500533
SNP_23136_A_24777521	NC_021163.1	Ca_Kabuli_Chr04	24777521	GG	TT	TT	INTRON	101500533	uncharacterized LOC101500533
SNP_23137_A_24785015	NC_021163.1	Ca_Kabuli_Chr04	24785015	TT	CC	CC	URR	101500533	uncharacterized LOC101500533
SNP_23138_A_24786866	NC_021163.1	Ca_Kabuli_Chr04	24786866	TT	CC	CC	DRR	101505020	uncharacterized LOC101505020
SNP_23139_A_24786867	NC_021163.1	Ca_Kabuli_Chr04	24786867	GG	AA	AA	DRR	101505020	uncharacterized LOC101505020
SNP_23140_A_24786905	NC_021163.1	Ca_Kabuli_Chr04	24786905	TT	CC	CC	DRR	101505020	uncharacterized LOC101505020
SNP_23141_A_24786925	NC_021163.1	Ca_Kabuli_Chr04	24786925	TT	CC	CC	DRR	101505020	uncharacterized LOC101505020
SNP_23142_A_24793216	NC_021163.1	Ca_Kabuli_Chr04	24793216	CC	TT	TT	INTERGENIC		
SNP_23143_A_24797183	NC_021163.1	Ca_Kabuli_Chr04	24797183	AA	CC	CC	INTERGENIC		
SNP_23144_A_24797930	NC_021163.1	Ca_Kabuli_Chr04	24797930	TT	CC	CC	INTERGENIC		
SNP_23145_A_24800422	NC_021163.1	Ca_Kabuli_Chr04	24800422	CC	TT	TT	INTERGENIC		
SNP_23146_A_24801369	NC_021163.1	Ca_Kabuli_Chr04	24801369	GG	CC	CC	INTERGENIC		
SNP_23147_A_24809140	NC_021163.1	Ca_Kabuli_Chr04	24809140	AA	GG	GG	INTERGENIC		
SNP_23148_A_24828207	NC_021163.1	Ca_Kabuli_Chr04	24828207	TT	CC	CC	INTERGENIC		
SNP_23150_A_24837114	NC_021163.1	Ca_Kabuli_Chr04	24837114	AA	GG	GG	INTERGENIC		
SNP_23151_A_24840434	NC_021163.1	Ca_Kabuli_Chr04	24840434	GG	TT	TT	INTERGENIC		
SNP_23152_A_24870691	NC_021163.1	Ca_Kabuli_Chr04	24870691	GG	AA	AA	INTERGENIC		
SNP_23153_A_24876598	NC_021163.1	Ca_Kabuli_Chr04	24876598	GG	AA	AA	INTERGENIC		
SNP_23154_A_24877472	NC_021163.1	Ca_Kabuli_Chr04	24877472	CC	AA	AA	INTERGENIC		
SNP_23155_A_24877619	NC_021163.1	Ca_Kabuli_Chr04	24877619	TT	CC	CC	INTERGENIC		
SNP_23156_A_24891060	NC_021163.1	Ca_Kabuli_Chr04	24891060	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23159_A_24914825	NC_021163.1	Ca_Kabuli_Chr04	24914825	TT	GG	GG	INTERGENIC			
SNP_23160_A_24929516	NC_021163.1	Ca_Kabuli_Chr04	24929516	TT	CC	CC	INTERGENIC			
SNP_23161_A_24939253	NC_021163.1	Ca_Kabuli_Chr04	24939253	GG	AA	AA	INTERGENIC			
SNP_23163_A_24948799	NC_021163.1	Ca_Kabuli_Chr04	24948799	TT	AA	AA	INTERGENIC			
SNP_23164_A_24956503	NC_021163.1	Ca_Kabuli_Chr04	24956503	GG	AA	AA	INTERGENIC			
SNP_23165_A_24956633	NC_021163.1	Ca_Kabuli_Chr04	24956633	AA	GG	GG	INTERGENIC			
SNP_23166_A_24958608	NC_021163.1	Ca_Kabuli_Chr04	24958608	GG	TT	TT	INTERGENIC			
SNP_23167_A_24961855	NC_021163.1	Ca_Kabuli_Chr04	24961855	AA	GG	GG	INTERGENIC			
SNP_23168_A_24965366	NC_021163.1	Ca_Kabuli_Chr04	24965366	AA	CC	CC	INTERGENIC			
SNP_23169_A_24996662	NC_021163.1	Ca_Kabuli_Chr04	24996662	GG	AA	AA	INTERGENIC			
SNP_23170_A_24996716	NC_021163.1	Ca_Kabuli_Chr04	24996716	AA	GG	GG	INTERGENIC			
SNP_23171_A_24996722	NC_021163.1	Ca_Kabuli_Chr04	24996722	TT	CC	CC	INTERGENIC			
SNP_23172_A_24996749	NC_021163.1	Ca_Kabuli_Chr04	24996749	GG	AA	AA	INTERGENIC			
SNP_23173_A_24996955	NC_021163.1	Ca_Kabuli_Chr04	24996955	TT	CC	CC	INTERGENIC			
SNP_23174_A_25011236	NC_021163.1	Ca_Kabuli_Chr04	25011236	AA	GG	GG	INTERGENIC			
SNP_23175_A_25011251	NC_021163.1	Ca_Kabuli_Chr04	25011251	AA	TT	TT	INTERGENIC			
SNP_23176_A_25011311	NC_021163.1	Ca_Kabuli_Chr04	25011311	GG	AA	AA	INTERGENIC			
SNP_23177_A_25011320	NC_021163.1	Ca_Kabuli_Chr04	25011320	AA	TT	TT	INTERGENIC			
SNP_23178_A_25011326	NC_021163.1	Ca_Kabuli_Chr04	25011326	AA	GG	GG	INTERGENIC			
SNP_23179_A_25011356	NC_021163.1	Ca_Kabuli_Chr04	25011356	GG	AA	AA	INTERGENIC			
SNP_23180_A_25011365	NC_021163.1	Ca_Kabuli_Chr04	25011365	GG	AA	AA	INTERGENIC			
SNP_23181_A_25011576	NC_021163.1	Ca_Kabuli_Chr04	25011576	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23182_A_25024256	NC_021163.1	Ca_Kabuli_Chr04	25024256	GG	TT	TT	INTERGENIC		
SNP_23183_A_25024608	NC_021163.1	Ca_Kabuli_Chr04	25024608	CC	AA	AA	INTERGENIC		
SNP_23184_A_25024830	NC_021163.1	Ca_Kabuli_Chr04	25024830	AA	CC	CC	INTERGENIC		
SNP_23185_A_25024947	NC_021163.1	Ca_Kabuli_Chr04	25024947	GG	AA	AA	INTERGENIC		
SNP_23186_A_25025206	NC_021163.1	Ca_Kabuli_Chr04	25025206	CC	TT	TT	INTERGENIC		
SNP_23187_A_25026727	NC_021163.1	Ca_Kabuli_Chr04	25026727	AA	CC	CC	DRR	101488417	uncharacterized LOC101488417
SNP_23188_A_25026737	NC_021163.1	Ca_Kabuli_Chr04	25026737	AA	GG	GG	DRR	101488417	uncharacterized LOC101488417
SNP_23189_A_25026746	NC_021163.1	Ca_Kabuli_Chr04	25026746	AA	GG	GG	DRR	101488417	uncharacterized LOC101488417
SNP_23190_A_25026755	NC_021163.1	Ca_Kabuli_Chr04	25026755	TT	GG	GG	DRR	101488417	uncharacterized LOC101488417
SNP_23191_A_25026761	NC_021163.1	Ca_Kabuli_Chr04	25026761	TT	CC	CC	DRR	101488417	uncharacterized LOC101488417
SNP_23192_A_25026799	NC_021163.1	Ca_Kabuli_Chr04	25026799	AA	GG	GG	DRR	101488417	uncharacterized LOC101488417
SNP_23193_A_25027020	NC_021163.1	Ca_Kabuli_Chr04	25027020	AA	GG	GG	NON_SYNONYMOUS_CODING	101488417	uncharacterized LOC101488417
SNP_23194_A_25027030	NC_021163.1	Ca_Kabuli_Chr04	25027030	TT	CC	CC	NON_SYNONYMOUS_CODING	101488417	uncharacterized LOC101488417
SNP_23195_A_25027637	NC_021163.1	Ca_Kabuli_Chr04	25027637	AA	GG	GG	SYNONYMOUS_CODING	101488417	uncharacterized LOC101488417
SNP_23196_A_25027648	NC_021163.1	Ca_Kabuli_Chr04	25027648	CC	TT	TT	NON_SYNONYMOUS_CODING	101488417	uncharacterized LOC101488417
SNP_23197_A_25027877	NC_021163.1	Ca_Kabuli_Chr04	25027877	AA	GG	GG	INTRON	101488417	uncharacterized LOC101488417
SNP_23198_A_25041255	NC_021163.1	Ca_Kabuli_Chr04	25041255	AA	GG	GG	INTERGENIC		
SNP_23199_A_25041745	NC_021163.1	Ca_Kabuli_Chr04	25041745	GG	AA	AA	INTERGENIC		
SNP_23200_A_25046461	NC_021163.1	Ca_Kabuli_Chr04	25046461	TT	GG	GG	INTERGENIC		
SNP_23201_A_25046963	NC_021163.1	Ca_Kabuli_Chr04	25046963	AA	GG	GG	INTERGENIC		
SNP_23202_A_25047032	NC_021163.1	Ca_Kabuli_Chr04	25047032	AA	GG	GG	INTERGENIC		
SNP_23203_A_25047033	NC_021163.1	Ca_Kabuli_Chr04	25047033	TT	GG	GG	INTERGENIC		

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SNP_23204_A_25047046	NC_021163.1	Ca_Kabuli_Chr04	25047046	TT	GG	GG	INTERGENIC			
SNP_23205_A_25047110	NC_021163.1	Ca_Kabuli_Chr04	25047110	GG	AA	AA	INTERGENIC			
SNP_23206_A_25047171	NC_021163.1	Ca_Kabuli_Chr04	25047171	GG	CC	CC	INTERGENIC			
SNP_23207_A_25047379	NC_021163.1	Ca_Kabuli_Chr04	25047379	CC	TT	TT	INTERGENIC			
SNP_23208_A_25047557	NC_021163.1	Ca_Kabuli_Chr04	25047557	CC	TT	TT	INTERGENIC			
SNP_23209_A_25047837	NC_021163.1	Ca_Kabuli_Chr04	25047837	CC	AA	AA	INTERGENIC			
SNP_23210_A_25048526	NC_021163.1	Ca_Kabuli_Chr04	25048526	CC	TT	TT	INTERGENIC			
SNP_23211_A_25048582	NC_021163.1	Ca_Kabuli_Chr04	25048582	AA	TT	TT	INTERGENIC			
SNP_23212_A_25051487	NC_021163.1	Ca_Kabuli_Chr04	25051487	TT	CC	CC	INTERGENIC			
SNP_23213_A_25052542	NC_021163.1	Ca_Kabuli_Chr04	25052542	GG	AA	AA	INTERGENIC			
SNP_23214_A_25053677	NC_021163.1	Ca_Kabuli_Chr04	25053677	TT	GG	GG	INTERGENIC			
SNP_23215_A_25053796	NC_021163.1	Ca_Kabuli_Chr04	25053796	CC	TT	TT	INTERGENIC			
SNP_23216_A_25054020	NC_021163.1	Ca_Kabuli_Chr04	25054020	AA	CC	CC	INTERGENIC			
SNP_23217_A_25055171	NC_021163.1	Ca_Kabuli_Chr04	25055171	AA	CC	CC	INTERGENIC			
SNP_23218_A_25055211	NC_021163.1	Ca_Kabuli_Chr04	25055211	CC	TT	TT	INTERGENIC			
SNP_23220_A_25059399	NC_021163.1	Ca_Kabuli_Chr04	25059399	GG	AA	AA	INTERGENIC			
SNP_23221_A_25059432	NC_021163.1	Ca_Kabuli_Chr04	25059432	AA	GG	GG	INTERGENIC			
SNP_23222_A_25059482	NC_021163.1	Ca_Kabuli_Chr04	25059482	AA	GG	GG	INTERGENIC			
SNP_23223_A_25060676	NC_021163.1	Ca_Kabuli_Chr04	25060676	TT	CC	CC	INTERGENIC			
SNP_23224_A_25064164	NC_021163.1	Ca_Kabuli_Chr04	25064164	AA	GG	GG	INTERGENIC			
SNP_23225_A_25064235	NC_021163.1	Ca_Kabuli_Chr04	25064235	GG	AA	AA	INTERGENIC			
SNP_23226_A_25067188	NC_021163.1	Ca_Kabuli_Chr04	25067188	TT	CC	CC	INTERGENIC			

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SNP_23227_A_25067267	NC_021163.1	Ca_Kabuli_Chr04	25067267	TT	CC	CC	INTERGENIC			
SNP_23228_A_25067269	NC_021163.1	Ca_Kabuli_Chr04	25067269	TT	CC	CC	INTERGENIC			
SNP_23229_A_25067421	NC_021163.1	Ca_Kabuli_Chr04	25067421	GG	AA	AA	INTERGENIC			
SNP_23230_A_25067592	NC_021163.1	Ca_Kabuli_Chr04	25067592	TT	GG	GG	INTERGENIC			
SNP_23231_A_25069256	NC_021163.1	Ca_Kabuli_Chr04	25069256	CC	GG	GG	INTERGENIC			
SNP_23232_A_25070433	NC_021163.1	Ca_Kabuli_Chr04	25070433	CC	AA	AA	INTERGENIC			
SNP_23235_A_25071009	NC_021163.1	Ca_Kabuli_Chr04	25071009	CC	TT	TT	INTERGENIC			
SNP_23236_A_25071036	NC_021163.1	Ca_Kabuli_Chr04	25071036	TT	GG	GG	INTERGENIC			
SNP_23237_A_25071094	NC_021163.1	Ca_Kabuli_Chr04	25071094	CC	TT	TT	INTERGENIC			
SNP_23238_A_25071164	NC_021163.1	Ca_Kabuli_Chr04	25071164	GG	TT	TT	INTERGENIC			
SNP_23240_A_25071346	NC_021163.1	Ca_Kabuli_Chr04	25071346	CC	GG	GG	INTERGENIC			
SNP_23241_A_25071476	NC_021163.1	Ca_Kabuli_Chr04	25071476	GG	CC	CC	INTERGENIC			
SNP_23242_A_25071599	NC_021163.1	Ca_Kabuli_Chr04	25071599	GG	AA	AA	INTERGENIC			
SNP_23243_A_25074132	NC_021163.1	Ca_Kabuli_Chr04	25074132	TT	CC	CC	INTERGENIC			
SNP_23245_A_25074508	NC_021163.1	Ca_Kabuli_Chr04	25074508	TT	CC	CC	INTERGENIC			
SNP_23246_A_25074574	NC_021163.1	Ca_Kabuli_Chr04	25074574	CC	TT	TT	INTERGENIC			
SNP_23247_A_25074654	NC_021163.1	Ca_Kabuli_Chr04	25074654	AA	CC	CC	INTERGENIC			
SNP_23248_A_25084598	NC_021163.1	Ca_Kabuli_Chr04	25084598	TT	CC	CC	INTERGENIC			
SNP_23249_A_25084644	NC_021163.1	Ca_Kabuli_Chr04	25084644	TT	CC	CC	INTERGENIC			
SNP_23250_A_25089264	NC_021163.1	Ca_Kabuli_Chr04	25089264	TT	CC	CC	INTERGENIC			
SNP_23251_A_25089354	NC_021163.1	Ca_Kabuli_Chr04	25089354	AA	TT	TT	INTERGENIC			
SNP_23252_A_25089362	NC_021163.1	Ca_Kabuli_Chr04	25089362	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23253_A_25089375	NC_021163.1	Ca_Kabuli_Chr04	25089375	AA	GG	GG	INTERGENIC			
SNP_23255_A_25104513	NC_021163.1	Ca_Kabuli_Chr04	25104513	AA	GG	GG	INTERGENIC			
SNP_23256_A_25105960	NC_021163.1	Ca_Kabuli_Chr04	25105960	GG	AA	AA	INTERGENIC			
SNP_23257_A_25106154	NC_021163.1	Ca_Kabuli_Chr04	25106154	TT	CC	CC	INTERGENIC			
SNP_23258_A_25106164	NC_021163.1	Ca_Kabuli_Chr04	25106164	TT	CC	CC	INTERGENIC			
SNP_23259_A_25111752	NC_021163.1	Ca_Kabuli_Chr04	25111752	TT	GG	GG	INTERGENIC			
SNP_23260_A_25116829	NC_021163.1	Ca_Kabuli_Chr04	25116829	CC	TT	TT	INTERGENIC			
SNP_23261_A_25117235	NC_021163.1	Ca_Kabuli_Chr04	25117235	TT	CC	CC	INTERGENIC			
SNP_23262_A_25124840	NC_021163.1	Ca_Kabuli_Chr04	25124840	TT	CC	CC	URR	101489084	Unknown function	
SNP_23263_A_25125353	NC_021163.1	Ca_Kabuli_Chr04	25125353	CC	GG	GG	INTERGENIC			
SNP_23264_A_25130369	NC_021163.1	Ca_Kabuli_Chr04	25130369	TT	CC	CC	INTERGENIC			
SNP_23265_A_25133600	NC_021163.1	Ca_Kabuli_Chr04	25133600	CC	GG	GG	INTERGENIC			
SNP_23266_A_25133605	NC_021163.1	Ca_Kabuli_Chr04	25133605	CC	AA	AA	INTERGENIC			
SNP_23267_A_25133606	NC_021163.1	Ca_Kabuli_Chr04	25133606	TT	AA	AA	INTERGENIC			
SNP_23268_A_25134034	NC_021163.1	Ca_Kabuli_Chr04	25134034	GG	AA	AA	INTERGENIC			
SNP_23269_A_25136143	NC_021163.1	Ca_Kabuli_Chr04	25136143	GG	AA	AA	INTERGENIC			
SNP_23270_A_25136608	NC_021163.1	Ca_Kabuli_Chr04	25136608	TT	AA	AA	INTERGENIC			
SNP_23271_A_25141481	NC_021163.1	Ca_Kabuli_Chr04	25141481	TT	CC	CC	INTERGENIC			
SNP_23272_A_25144874	NC_021163.1	Ca_Kabuli_Chr04	25144874	TT	CC	CC	INTERGENIC			
SNP_23273_A_25148070	NC_021163.1	Ca_Kabuli_Chr04	25148070	CC	AA	AA	INTERGENIC			
SNP_23274_A_25154833	NC_021163.1	Ca_Kabuli_Chr04	25154833	TT	AA	AA	URR	101507290	probable indole-3-pyruvate monooxygenase YUCCA3	
SNP_23275_A_25161374	NC_021163.1	Ca_Kabuli_Chr04	25161374	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23276_A_25163007	NC_021163.1	Ca_Kabuli_Chr04	25163007	GG	AA	AA	INTERGENIC		
SNP_23277_A_25163357	NC_021163.1	Ca_Kabuli_Chr04	25163357	AA	GG	GG	INTERGENIC		
SNP_23278_A_25164979	NC_021163.1	Ca_Kabuli_Chr04	25164979	CC	TT	TT	INTERGENIC		
SNP_23279_A_25166376	NC_021163.1	Ca_Kabuli_Chr04	25166376	GG	AA	AA	INTERGENIC		
SNP_23280_A_25168094	NC_021163.1	Ca_Kabuli_Chr04	25168094	TT	GG	GG	INTERGENIC		
SNP_23282_A_25177855	NC_021163.1	Ca_Kabuli_Chr04	25177855	TT	CC	CC	INTERGENIC		
SNP_23283_A_25177872	NC_021163.1	Ca_Kabuli_Chr04	25177872	AA	GG	GG	INTERGENIC		
SNP_23284_A_25179026	NC_021163.1	Ca_Kabuli_Chr04	25179026	GG	AA	AA	INTERGENIC		
SNP_23285_A_25185247	NC_021163.1	Ca_Kabuli_Chr04	25185247	CC	TT	TT	INTRON	101507596	7-hydroxymethyl chlorophyll a reductase, chloroplastic
SNP_23286_A_25185322	NC_021163.1	Ca_Kabuli_Chr04	25185322	TT	CC	CC	INTRON	101507596	7-hydroxymethyl chlorophyll a reductase, chloroplastic
SNP_23288_A_25190129	NC_021163.1	Ca_Kabuli_Chr04	25190129	AA	GG	GG	INTERGENIC		
SNP_23289_A_25193204	NC_021163.1	Ca_Kabuli_Chr04	25193204	CC	TT	TT	INTERGENIC		
SNP_23290_A_25200782	NC_021163.1	Ca_Kabuli_Chr04	25200782	TT	CC	CC	INTERGENIC		
SNP_23291_A_25200978	NC_021163.1	Ca_Kabuli_Chr04	25200978	GG	TT	TT	INTERGENIC		
SNP_23292_A_25201469	NC_021163.1	Ca_Kabuli_Chr04	25201469	AA	TT	TT	INTERGENIC		
SNP_23293_A_25202318	NC_021163.1	Ca_Kabuli_Chr04	25202318	GG	TT	TT	INTERGENIC		
SNP_23294_A_25202618	NC_021163.1	Ca_Kabuli_Chr04	25202618	CC	TT	TT	INTERGENIC		
SNP_23295_A_25204153	NC_021163.1	Ca_Kabuli_Chr04	25204153	AA	GG	GG	INTERGENIC		
SNP_23297_A_25213585	NC_021163.1	Ca_Kabuli_Chr04	25213585	AA	GG	GG	DRR	101489417	Unknown function
SNP_23299_A_25213878	NC_021163.1	Ca_Kabuli_Chr04	25213878	GG	TT	TT	DRR	101489417	Unknown function
SNP_23300_A_25214226	NC_021163.1	Ca_Kabuli_Chr04	25214226	TT	AA	AA	URR	101489417	Unknown function
SNP_23301_A_25215121	NC_021163.1	Ca_Kabuli_Chr04	25215121	AA	GG	GG	URR	101489417	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23302_A_25220099	NC_021163.1	Ca_Kabuli_Chr04	25220099	AA	GG	GG	DRR	101490052	uncharacterized LOC101490052
SNP_23303_A_25220135	NC_021163.1	Ca_Kabuli_Chr04	25220135	CC	AA	AA	DRR	101490052	uncharacterized LOC101490052
SNP_23304_A_25222392	NC_021163.1	Ca_Kabuli_Chr04	25222392	TT	CC	CC	INTERGENIC		
SNP_23305_A_25225692	NC_021163.1	Ca_Kabuli_Chr04	25225692	TT	AA	AA	INTRON	101490052	uncharacterized LOC101490052
SNP_23306_A_25226129	NC_021163.1	Ca_Kabuli_Chr04	25226129	CC	AA	AA	INTRON	101490052	uncharacterized LOC101490052
SNP_23307_A_25227714	NC_021163.1	Ca_Kabuli_Chr04	25227714	TT	GG	GG	INTRON	101490052	uncharacterized LOC101490052
SNP_23309_A_25237270	NC_021163.1	Ca_Kabuli_Chr04	25237270	AA	CC	CC	INTERGENIC		
SNP_23310_A_25237913	NC_021163.1	Ca_Kabuli_Chr04	25237913	CC	AA	AA	INTERGENIC		
SNP_23311_A_25237945	NC_021163.1	Ca_Kabuli_Chr04	25237945	AA	CC	CC	INTERGENIC		
SNP_23312_A_25237949	NC_021163.1	Ca_Kabuli_Chr04	25237949	CC	TT	TT	INTERGENIC		
SNP_23313_A_25241814	NC_021163.1	Ca_Kabuli_Chr04	25241814	TT	CC	CC	INTERGENIC		
SNP_23314_A_25241833	NC_021163.1	Ca_Kabuli_Chr04	25241833	GG	CC	CC	INTERGENIC		
SNP_23315_A_25241840	NC_021163.1	Ca_Kabuli_Chr04	25241840	TT	CC	CC	INTERGENIC		
SNP_23316_A_25250135	NC_021163.1	Ca_Kabuli_Chr04	25250135	TT	CC	CC	INTERGENIC		
SNP_23318_A_25253448	NC_021163.1	Ca_Kabuli_Chr04	25253448	GG	CC	CC	URR	101508132	ATP-dependent zinc metalloprotease FTSH 4, mitochondrial-like
SNP_23319_A_25253466	NC_021163.1	Ca_Kabuli_Chr04	25253466	AA	CC	CC	URR	101508132	ATP-dependent zinc metalloprotease FTSH 4, mitochondrial-like
SNP_23320_A_25255286	NC_021163.1	Ca_Kabuli_Chr04	25255286	TT	CC	CC	URR	101508452	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13-B
SNP_23321_A_25258225	NC_021163.1	Ca_Kabuli_Chr04	25258225	AA	GG	GG	INTERGENIC		
SNP_23322_A_25258648	NC_021163.1	Ca_Kabuli_Chr04	25258648	GG	AA	AA	INTERGENIC		
SNP_23323_A_25258654	NC_021163.1	Ca_Kabuli_Chr04	25258654	CC	TT	TT	INTERGENIC		
SNP_23324_A_25258924	NC_021163.1	Ca_Kabuli_Chr04	25258924	CC	TT	TT	INTERGENIC		
SNP_23326_A_25260061	NC_021163.1	Ca_Kabuli_Chr04	25260061	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23327_A_25260618	NC_021163.1	Ca_Kabuli_Chr04	25260618	CC	AA	AA	INTERGENIC		
SNP_23328_A_25279104	NC_021163.1	Ca_Kabuli_Chr04	25279104	CC	TT	TT	INTERGENIC		
SNP_23329_A_25279120	NC_021163.1	Ca_Kabuli_Chr04	25279120	AA	GG	GG	INTERGENIC		
SNP_23330_A_25279124	NC_021163.1	Ca_Kabuli_Chr04	25279124	AA	GG	GG	INTERGENIC		
SNP_23331_A_25279184	NC_021163.1	Ca_Kabuli_Chr04	25279184	CC	TT	TT	INTERGENIC		
SNP_23332_A_25279839	NC_021163.1	Ca_Kabuli_Chr04	25279839	GG	CC	CC	INTERGENIC		
SNP_23333_A_25279883	NC_021163.1	Ca_Kabuli_Chr04	25279883	CC	TT	TT	INTERGENIC		
SNP_23334_A_25279886	NC_021163.1	Ca_Kabuli_Chr04	25279886	CC	TT	TT	INTERGENIC		
SNP_23335_A_25285023	NC_021163.1	Ca_Kabuli_Chr04	25285023	AA	GG	GG	INTRON	101508756	PHD finger protein ING1
SNP_23336_A_25285317	NC_021163.1	Ca_Kabuli_Chr04	25285317	GG	AA	AA	SYNONYMOUS_CODING	101508756	PHD finger protein ING1
SNP_23337_A_25285688	NC_021163.1	Ca_Kabuli_Chr04	25285688	GG	TT	TT	INTRON	101508756	PHD finger protein ING1
SNP_23338_A_25290127	NC_021163.1	Ca_Kabuli_Chr04	25290127	TT	CC	CC	INTERGENIC		
SNP_23339_A_25290128	NC_021163.1	Ca_Kabuli_Chr04	25290128	CC	TT	TT	INTERGENIC		
SNP_23340_A_25290174	NC_021163.1	Ca_Kabuli_Chr04	25290174	AA	GG	GG	INTERGENIC		
SNP_23341_A_25290192	NC_021163.1	Ca_Kabuli_Chr04	25290192	GG	AA	AA	INTERGENIC		
SNP_23343_A_25290353	NC_021163.1	Ca_Kabuli_Chr04	25290353	CC	AA	AA	INTERGENIC		
SNP_23345_A_25290408	NC_021163.1	Ca_Kabuli_Chr04	25290408	AA	GG	GG	INTERGENIC		
SNP_23346_A_25290496	NC_021163.1	Ca_Kabuli_Chr04	25290496	AA	GG	GG	INTERGENIC		
SNP_23347_A_25290636	NC_021163.1	Ca_Kabuli_Chr04	25290636	TT	CC	CC	INTERGENIC		
SNP_23348_A_25290688	NC_021163.1	Ca_Kabuli_Chr04	25290688	CC	TT	TT	INTERGENIC		
SNP_23349_A_25290689	NC_021163.1	Ca_Kabuli_Chr04	25290689	AA	GG	GG	INTERGENIC		
SNP_23350_A_25290763	NC_021163.1	Ca_Kabuli_Chr04	25290763	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23351_A_25290772	NC_021163.1	Ca_Kabuli_Chr04	25290772	CC	TT	TT	INTERGENIC			
SNP_23352_A_25290826	NC_021163.1	Ca_Kabuli_Chr04	25290826	AA	CC	CC	INTERGENIC			
SNP_23353_A_25290872	NC_021163.1	Ca_Kabuli_Chr04	25290872	AA	GG	GG	INTERGENIC			
SNP_23355_A_25292725	NC_021163.1	Ca_Kabuli_Chr04	25292725	TT	AA	AA	INTERGENIC			
SNP_23356_A_25293034	NC_021163.1	Ca_Kabuli_Chr04	25293034	TT	GG	GG	INTERGENIC			
SNP_23357_A_25293082	NC_021163.1	Ca_Kabuli_Chr04	25293082	TT	CC	CC	INTERGENIC			
SNP_23358_A_25293084	NC_021163.1	Ca_Kabuli_Chr04	25293084	AA	GG	GG	INTERGENIC			
SNP_23359_A_25293086	NC_021163.1	Ca_Kabuli_Chr04	25293086	AA	GG	GG	INTERGENIC			
SNP_23360_A_25296896	NC_021163.1	Ca_Kabuli_Chr04	25296896	CC	TT	TT	INTERGENIC			
SNP_23361_A_25296903	NC_021163.1	Ca_Kabuli_Chr04	25296903	AA	TT	TT	INTERGENIC			
SNP_23362_A_25296946	NC_021163.1	Ca_Kabuli_Chr04	25296946	GG	AA	AA	INTERGENIC			
SNP_23363_A_25299990	NC_021163.1	Ca_Kabuli_Chr04	25299990	CC	TT	TT	INTERGENIC			
SNP_23364_A_25303354	NC_021163.1	Ca_Kabuli_Chr04	25303354	CC	TT	TT	INTERGENIC			
SNP_23365_A_25303561	NC_021163.1	Ca_Kabuli_Chr04	25303561	TT	GG	GG	INTERGENIC			
SNP_23366_A_25319533	NC_021163.1	Ca_Kabuli_Chr04	25319533	TT	GG	GG	INTERGENIC			
SNP_23367_A_25326903	NC_021163.1	Ca_Kabuli_Chr04	25326903	AA	GG	GG	INTERGENIC			
SNP_23368_A_25326998	NC_021163.1	Ca_Kabuli_Chr04	25326998	AA	GG	GG	INTERGENIC			
SNP_23369_A_25327040	NC_021163.1	Ca_Kabuli_Chr04	25327040	AA	CC	CC	INTERGENIC			
SNP_23370_A_25327095	NC_021163.1	Ca_Kabuli_Chr04	25327095	TT	CC	CC	INTERGENIC			
SNP_23371_A_25327101	NC_021163.1	Ca_Kabuli_Chr04	25327101	CC	TT	TT	INTERGENIC			
SNP_23372_A_25327104	NC_021163.1	Ca_Kabuli_Chr04	25327104	CC	TT	TT	INTERGENIC			
SNP_23373_A_25327119	NC_021163.1	Ca_Kabuli_Chr04	25327119	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23374_A_25327131	NC_021163.1	Ca_Kabuli_Chr04	25327131	TT	CC	CC	INTERGENIC		
SNP_23375_A_25327171	NC_021163.1	Ca_Kabuli_Chr04	25327171	TT	CC	CC	INTERGENIC		
SNP_23376_A_25327187	NC_021163.1	Ca_Kabuli_Chr04	25327187	GG	TT	TT	INTERGENIC		
SNP_23377_A_25327260	NC_021163.1	Ca_Kabuli_Chr04	25327260	GG	AA	AA	INTERGENIC		
SNP_23378_A_25327311	NC_021163.1	Ca_Kabuli_Chr04	25327311	TT	GG	GG	INTERGENIC		
SNP_23379_A_25327420	NC_021163.1	Ca_Kabuli_Chr04	25327420	TT	GG	GG	INTERGENIC		
SNP_23380_A_25327458	NC_021163.1	Ca_Kabuli_Chr04	25327458	CC	TT	TT	INTERGENIC		
SNP_23381_A_25327460	NC_021163.1	Ca_Kabuli_Chr04	25327460	TT	GG	GG	INTERGENIC		
SNP_23382_A_25327468	NC_021163.1	Ca_Kabuli_Chr04	25327468	TT	CC	CC	INTERGENIC		
SNP_23383_A_25340966	NC_021163.1	Ca_Kabuli_Chr04	25340966	AA	CC	CC	INTERGENIC		
SNP_23384_A_25348388	NC_021163.1	Ca_Kabuli_Chr04	25348388	AA	TT	TT	INTERGENIC		
SNP_23385_A_25352391	NC_021163.1	Ca_Kabuli_Chr04	25352391	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23386_A_25352408	NC_021163.1	Ca_Kabuli_Chr04	25352408	TT	CC	CC	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23387_A_25352414	NC_021163.1	Ca_Kabuli_Chr04	25352414	GG	CC	CC	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23388_A_25352447	NC_021163.1	Ca_Kabuli_Chr04	25352447	TT	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23391_A_25352701	NC_021163.1	Ca_Kabuli_Chr04	25352701	CC	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23392_A_25352705	NC_021163.1	Ca_Kabuli_Chr04	25352705	TT	CC	CC	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23393_A_25352709	NC_021163.1	Ca_Kabuli_Chr04	25352709	CC	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23394_A_25352734	NC_021163.1	Ca_Kabuli_Chr04	25352734	CC	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23395_A_25352772	NC_021163.1	Ca_Kabuli_Chr04	25352772	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23396_A_25352787	NC_021163.1	Ca_Kabuli_Chr04	25352787	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23397_A_25352798	NC_021163.1	Ca_Kabuli_Chr04	25352798	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23398_A_25353023	NC_021163.1	Ca_Kabuli_Chr04	25353023	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23399_A_25353035	NC_021163.1	Ca_Kabuli_Chr04	25353035	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23400_A_25353051	NC_021163.1	Ca_Kabuli_Chr04	25353051	CC	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23401_A_25353060	NC_021163.1	Ca_Kabuli_Chr04	25353060	GG	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23402_A_25353061	NC_021163.1	Ca_Kabuli_Chr04	25353061	TT	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23405_A_25353219	NC_021163.1	Ca_Kabuli_Chr04	25353219	CC	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23406_A_25353230	NC_021163.1	Ca_Kabuli_Chr04	25353230	GG	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23407_A_25353240	NC_021163.1	Ca_Kabuli_Chr04	25353240	TT	GG	GG	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23408_A_25353282	NC_021163.1	Ca_Kabuli_Chr04	25353282	CC	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23409_A_25353292	NC_021163.1	Ca_Kabuli_Chr04	25353292	GG	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23410_A_25353302	NC_021163.1	Ca_Kabuli_Chr04	25353302	AA	GG	GG	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23411_A_25353314	NC_021163.1	Ca_Kabuli_Chr04	25353314	AA	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23412_A_25353340	NC_021163.1	Ca_Kabuli_Chr04	25353340	GG	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23413_A_25353351	NC_021163.1	Ca_Kabuli_Chr04	25353351	TT	AA	AA	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23414_A_25353360	NC_021163.1	Ca_Kabuli_Chr04	25353360	GG	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23415_A_25353428	NC_021163.1	Ca_Kabuli_Chr04	25353428	CC	GG	GG	INTRON	101490714	40S ribosomal protein S8-like
SNP_23416_A_25353473	NC_021163.1	Ca_Kabuli_Chr04	25353473	AA	TT	TT	INTRON	101490714	40S ribosomal protein S8-like
SNP_23417_A_25358011	NC_021163.1	Ca_Kabuli_Chr04	25358011	GG	AA	AA	INTERGENIC		
SNP_23419_A_25358164	NC_021163.1	Ca_Kabuli_Chr04	25358164	GG	AA	AA	INTERGENIC		
SNP_23420_A_25358284	NC_021163.1	Ca_Kabuli_Chr04	25358284	AA	TT	TT	INTERGENIC		
SNP_23421_A_25358376	NC_021163.1	Ca_Kabuli_Chr04	25358376	CC	TT	TT	INTERGENIC		
SNP_23422_A_25358447	NC_021163.1	Ca_Kabuli_Chr04	25358447	TT	CC	CC	INTERGENIC		

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SNP_23423_A_25358456	NC_021163.1	Ca_Kabuli_Chr04	25358456	GG	TT	TT	INTERGENIC			
SNP_23424_A_25358477	NC_021163.1	Ca_Kabuli_Chr04	25358477	GG	TT	TT	INTERGENIC			
SNP_23425_A_25358493	NC_021163.1	Ca_Kabuli_Chr04	25358493	TT	CC	CC	INTERGENIC			
SNP_23426_A_25358501	NC_021163.1	Ca_Kabuli_Chr04	25358501	GG	AA	AA	INTERGENIC			
SNP_23427_A_25358503	NC_021163.1	Ca_Kabuli_Chr04	25358503	CC	TT	TT	INTERGENIC			
SNP_23428_A_25359079	NC_021163.1	Ca_Kabuli_Chr04	25359079	CC	AA	AA	INTERGENIC			
SNP_23429_A_25359100	NC_021163.1	Ca_Kabuli_Chr04	25359100	TT	CC	CC	INTERGENIC			
SNP_23430_A_25359225	NC_021163.1	Ca_Kabuli_Chr04	25359225	AA	CC	CC	INTERGENIC			
SNP_23431_A_25359252	NC_021163.1	Ca_Kabuli_Chr04	25359252	CC	GG	GG	INTERGENIC			
SNP_23432_A_25360800	NC_021163.1	Ca_Kabuli_Chr04	25360800	CC	AA	AA	INTERGENIC			
SNP_23434_A_25366329	NC_021163.1	Ca_Kabuli_Chr04	25366329	GG	AA	AA	INTERGENIC			
SNP_23435_A_25366368	NC_021163.1	Ca_Kabuli_Chr04	25366368	TT	GG	GG	INTERGENIC			
SNP_23436_A_25366699	NC_021163.1	Ca_Kabuli_Chr04	25366699	GG	AA	AA	INTERGENIC			
SNP_23437_A_25366762	NC_021163.1	Ca_Kabuli_Chr04	25366762	AA	CC	CC	INTERGENIC			
SNP_23438_A_25366813	NC_021163.1	Ca_Kabuli_Chr04	25366813	CC	AA	AA	INTERGENIC			
SNP_23439_A_25366867	NC_021163.1	Ca_Kabuli_Chr04	25366867	CC	TT	TT	INTERGENIC			
SNP_23440_A_25366892	NC_021163.1	Ca_Kabuli_Chr04	25366892	CC	TT	TT	INTERGENIC			
SNP_23441_A_25366908	NC_021163.1	Ca_Kabuli_Chr04	25366908	AA	GG	GG	INTERGENIC			
SNP_23442_A_25366958	NC_021163.1	Ca_Kabuli_Chr04	25366958	CC	GG	GG	INTERGENIC			
SNP_23443_A_25367008	NC_021163.1	Ca_Kabuli_Chr04	25367008	CC	TT	TT	INTERGENIC			
SNP_23444_A_25367152	NC_021163.1	Ca_Kabuli_Chr04	25367152	GG	AA	AA	INTERGENIC			
SNP_23445_A_25367175	NC_021163.1	Ca_Kabuli_Chr04	25367175	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23447_A_25368889	NC_021163.1	Ca_Kabuli_Chr04	25368889	TT	AA	AA	INTERGENIC		
SNP_23448_A_25368921	NC_021163.1	Ca_Kabuli_Chr04	25368921	TT	AA	AA	INTERGENIC		
SNP_23449_A_25370958	NC_021163.1	Ca_Kabuli_Chr04	25370958	TT	CC	CC	DRR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23450_A_25372026	NC_021163.1	Ca_Kabuli_Chr04	25372026	AA	TT	TT	URR	101410550	transfer RNA leucine (anticodon CAA)
SNP_23451_A_25374959	NC_021163.1	Ca_Kabuli_Chr04	25374959	TT	CC	CC	INTERGENIC		
SNP_23452_A_25375245	NC_021163.1	Ca_Kabuli_Chr04	25375245	AA	CC	CC	INTERGENIC		
SNP_23453_A_25375357	NC_021163.1	Ca_Kabuli_Chr04	25375357	GG	AA	AA	INTERGENIC		
SNP_23454_A_25375449	NC_021163.1	Ca_Kabuli_Chr04	25375449	TT	AA	AA	INTERGENIC		
SNP_23455_A_25375500	NC_021163.1	Ca_Kabuli_Chr04	25375500	TT	CC	CC	INTERGENIC		
SNP_23456_A_25375517	NC_021163.1	Ca_Kabuli_Chr04	25375517	TT	AA	AA	INTERGENIC		
SNP_23457_A_25375526	NC_021163.1	Ca_Kabuli_Chr04	25375526	TT	AA	AA	INTERGENIC		
SNP_23458_A_25375608	NC_021163.1	Ca_Kabuli_Chr04	25375608	GG	AA	AA	INTERGENIC		
SNP_23459_A_25375693	NC_021163.1	Ca_Kabuli_Chr04	25375693	GG	AA	AA	INTERGENIC		
SNP_23461_A_25375724	NC_021163.1	Ca_Kabuli_Chr04	25375724	CC	TT	TT	INTERGENIC		
SNP_23462_A_25375895	NC_021163.1	Ca_Kabuli_Chr04	25375895	GG	AA	AA	INTERGENIC		
SNP_23463_A_25375933	NC_021163.1	Ca_Kabuli_Chr04	25375933	GG	AA	AA	INTERGENIC		
SNP_23464_A_25376115	NC_021163.1	Ca_Kabuli_Chr04	25376115	CC	AA	AA	INTERGENIC		
SNP_23465_A_25376331	NC_021163.1	Ca_Kabuli_Chr04	25376331	GG	TT	TT	INTERGENIC		
SNP_23467_A_25378194	NC_021163.1	Ca_Kabuli_Chr04	25378194	GG	TT	TT	INTERGENIC		
SNP_23468_A_25389227	NC_021163.1	Ca_Kabuli_Chr04	25389227	AA	TT	TT	INTERGENIC		
SNP_23469_A_25389307	NC_021163.1	Ca_Kabuli_Chr04	25389307	CC	TT	TT	INTERGENIC		
SNP_23470_A_25389453	NC_021163.1	Ca_Kabuli_Chr04	25389453	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23471_A_25389457	NC_021163.1	Ca_Kabuli_Chr04	25389457	TT	CC	CC	INTERGENIC			
SNP_23472_A_25389458	NC_021163.1	Ca_Kabuli_Chr04	25389458	CC	TT	TT	INTERGENIC			
SNP_23473_A_25391577	NC_021163.1	Ca_Kabuli_Chr04	25391577	GG	TT	TT	INTERGENIC			
SNP_23474_A_25391614	NC_021163.1	Ca_Kabuli_Chr04	25391614	AA	GG	GG	INTERGENIC			
SNP_23475_A_25391728	NC_021163.1	Ca_Kabuli_Chr04	25391728	CC	TT	TT	INTERGENIC			
SNP_23476_A_25391763	NC_021163.1	Ca_Kabuli_Chr04	25391763	AA	GG	GG	INTERGENIC			
SNP_23477_A_25394574	NC_021163.1	Ca_Kabuli_Chr04	25394574	GG	AA	AA	INTERGENIC			
SNP_23478_A_25394583	NC_021163.1	Ca_Kabuli_Chr04	25394583	CC	AA	AA	INTERGENIC			
SNP_23479_A_25409825	NC_021163.1	Ca_Kabuli_Chr04	25409825	GG	CC	CC	INTERGENIC			
SNP_23480_A_25409861	NC_021163.1	Ca_Kabuli_Chr04	25409861	CC	TT	TT	INTERGENIC			
SNP_23481_A_25434325	NC_021163.1	Ca_Kabuli_Chr04	25434325	TT	GG	GG	URR	101491349	probable ubiquitin-like-specific protease 2B	
SNP_23482_A_25434356	NC_021163.1	Ca_Kabuli_Chr04	25434356	CC	TT	TT	URR	101491349	probable ubiquitin-like-specific protease 2B	
SNP_23483_A_25434418	NC_021163.1	Ca_Kabuli_Chr04	25434418	TT	CC	CC	URR	101491349	probable ubiquitin-like-specific protease 2B	
SNP_23484_A_25434590	NC_021163.1	Ca_Kabuli_Chr04	25434590	GG	CC	CC	URR	101491349	probable ubiquitin-like-specific protease 2B	
SNP_23485_A_25434726	NC_021163.1	Ca_Kabuli_Chr04	25434726	CC	TT	TT	URR	101491349	probable ubiquitin-like-specific protease 2B	
SNP_23486_A_25439165	NC_021163.1	Ca_Kabuli_Chr04	25439165	GG	AA	AA	INTERGENIC			
SNP_23487_A_25439166	NC_021163.1	Ca_Kabuli_Chr04	25439166	TT	AA	AA	INTERGENIC			
SNP_23488_A_25440451	NC_021163.1	Ca_Kabuli_Chr04	25440451	GG	AA	AA	INTERGENIC			
SNP_23489_A_25440636	NC_021163.1	Ca_Kabuli_Chr04	25440636	AA	GG	GG	INTERGENIC			
SNP_23490_A_25440737	NC_021163.1	Ca_Kabuli_Chr04	25440737	TT	CC	CC	INTERGENIC			
SNP_23491_A_25440812	NC_021163.1	Ca_Kabuli_Chr04	25440812	AA	TT	TT	INTERGENIC			
SNP_23492_A_25440845	NC_021163.1	Ca_Kabuli_Chr04	25440845	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23493_A_25440915	NC_021163.1	Ca_Kabuli_Chr04	25440915	TT	AA	AA	INTERGENIC			
SNP_23494_A_25441076	NC_021163.1	Ca_Kabuli_Chr04	25441076	AA	GG	GG	INTERGENIC			
SNP_23495_A_25441930	NC_021163.1	Ca_Kabuli_Chr04	25441930	AA	CC	CC	INTERGENIC			
SNP_23496_A_25448713	NC_021163.1	Ca_Kabuli_Chr04	25448713	TT	AA	AA	INTERGENIC			
SNP_23497_A_25448721	NC_021163.1	Ca_Kabuli_Chr04	25448721	AA	GG	GG	INTERGENIC			
SNP_23498_A_25456275	NC_021163.1	Ca_Kabuli_Chr04	25456275	TT	CC	CC	INTERGENIC			
SNP_23499_A_25456534	NC_021163.1	Ca_Kabuli_Chr04	25456534	GG	TT	TT	INTERGENIC			
SNP_23500_A_25456597	NC_021163.1	Ca_Kabuli_Chr04	25456597	CC	AA	AA	INTERGENIC			
SNP_23501_A_25456869	NC_021163.1	Ca_Kabuli_Chr04	25456869	GG	AA	AA	INTERGENIC			
SNP_23502_A_25456942	NC_021163.1	Ca_Kabuli_Chr04	25456942	CC	GG	GG	INTERGENIC			
SNP_23504_A_25461498	NC_021163.1	Ca_Kabuli_Chr04	25461498	TT	AA	AA	INTERGENIC			
SNP_23505_A_25463676	NC_021163.1	Ca_Kabuli_Chr04	25463676	TT	CC	CC	INTERGENIC			
SNP_23506_A_25463687	NC_021163.1	Ca_Kabuli_Chr04	25463687	TT	AA	AA	INTERGENIC			
SNP_23507_A_25463688	NC_021163.1	Ca_Kabuli_Chr04	25463688	GG	AA	AA	INTERGENIC			
SNP_23508_A_25463689	NC_021163.1	Ca_Kabuli_Chr04	25463689	GG	CC	CC	INTERGENIC			
SNP_23509_A_25463735	NC_021163.1	Ca_Kabuli_Chr04	25463735	TT	CC	CC	INTERGENIC			
SNP_23510_A_25463741	NC_021163.1	Ca_Kabuli_Chr04	25463741	GG	TT	TT	INTERGENIC			
SNP_23514_A_25474392	NC_021163.1	Ca_Kabuli_Chr04	25474392	GG	TT	TT	INTERGENIC			
SNP_23516_A_25479893	NC_021163.1	Ca_Kabuli_Chr04	25479893	AA	GG	GG	INTERGENIC			
SNP_23517_A_25486840	NC_021163.1	Ca_Kabuli_Chr04	25486840	AA	CC	CC	INTERGENIC			
SNP_23518_A_25491495	NC_021163.1	Ca_Kabuli_Chr04	25491495	CC	GG	GG	INTERGENIC			
SNP_23519_A_25492372	NC_021163.1	Ca_Kabuli_Chr04	25492372	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23520_A_25494229	NC_021163.1	Ca_Kabuli_Chr04	25494229	TT	CC	CC	INTERGENIC		
SNP_23522_A_25495813	NC_021163.1	Ca_Kabuli_Chr04	25495813	AA	GG	GG	INTERGENIC		
SNP_23523_A_25497678	NC_021163.1	Ca_Kabuli_Chr04	25497678	TT	GG	GG	INTERGENIC		
SNP_23524_A_25499257	NC_021163.1	Ca_Kabuli_Chr04	25499257	TT	CC	CC	INTERGENIC		
SNP_23526_A_25504264	NC_021163.1	Ca_Kabuli_Chr04	25504264	AA	GG	GG	INTERGENIC		
SNP_23527_A_25505905	NC_021163.1	Ca_Kabuli_Chr04	25505905	GG	AA	AA	INTERGENIC		
SNP_23529_A_25512246	NC_021163.1	Ca_Kabuli_Chr04	25512246	TT	GG	GG	INTRON	101492978	probable serine incorporator
SNP_23530_A_25513053	NC_021163.1	Ca_Kabuli_Chr04	25513053	GG	CC	CC	INTRON	101492978	probable serine incorporator
SNP_23531_A_25513059	NC_021163.1	Ca_Kabuli_Chr04	25513059	GG	CC	CC	INTRON	101492978	probable serine incorporator
SNP_23532_A_25515314	NC_021163.1	Ca_Kabuli_Chr04	25515314	GG	AA	AA	INTRON	101492978	probable serine incorporator
SNP_23533_A_25515338	NC_021163.1	Ca_Kabuli_Chr04	25515338	GG	TT	TT	INTRON	101492978	probable serine incorporator
SNP_23536_A_25538011	NC_021163.1	Ca_Kabuli_Chr04	25538011	TT	CC	CC	URR	101493635	F-box protein At2g26160-like
SNP_23537_A_25543726	NC_021163.1	Ca_Kabuli_Chr04	25543726	GG	AA	AA	INTERGENIC		
SNP_23538_A_25543890	NC_021163.1	Ca_Kabuli_Chr04	25543890	TT	CC	CC	INTERGENIC		
SNP_23539_A_25557575	NC_021163.1	Ca_Kabuli_Chr04	25557575	TT	GG	GG	INTERGENIC		
SNP_23540_A_25566858	NC_021163.1	Ca_Kabuli_Chr04	25566858	GG	TT	TT	INTERGENIC		
SNP_23542_A_25579592	NC_021163.1	Ca_Kabuli_Chr04	25579592	GG	TT	TT	INTERGENIC		
SNP_23543_A_25581394	NC_021163.1	Ca_Kabuli_Chr04	25581394	AA	GG	GG	INTERGENIC		
SNP_23544_A_25587774	NC_021163.1	Ca_Kabuli_Chr04	25587774	CC	TT	TT	DRR	101493950	LOB domain-containing protein 12-like
SNP_23547_A_25596134	NC_021163.1	Ca_Kabuli_Chr04	25596134	CC	TT	TT	INTERGENIC		
SNP_23548_A_25604828	NC_021163.1	Ca_Kabuli_Chr04	25604828	CC	AA	AA	INTERGENIC		
SNP_23549_A_25607350	NC_021163.1	Ca_Kabuli_Chr04	25607350	TT	CC	CC	INTERGENIC		

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SNP_23550_A_25615463	NC_021163.1	Ca_Kabuli_Chr04	25615463	TT	CC	CC	INTERGENIC			
SNP_23552_A_25629695	NC_021163.1	Ca_Kabuli_Chr04	25629695	TT	CC	CC	INTERGENIC			
SNP_23553_A_25633028	NC_021163.1	Ca_Kabuli_Chr04	25633028	TT	CC	CC	INTERGENIC			
SNP_23554_A_25634030	NC_021163.1	Ca_Kabuli_Chr04	25634030	GG	AA	AA	INTERGENIC			
SNP_23555_A_25637810	NC_021163.1	Ca_Kabuli_Chr04	25637810	GG	AA	AA	INTERGENIC			
SNP_23556_A_25642034	NC_021163.1	Ca_Kabuli_Chr04	25642034	GG	TT	TT	INTERGENIC			
SNP_23557_A_25642565	NC_021163.1	Ca_Kabuli_Chr04	25642565	AA	TT	TT	INTERGENIC			
SNP_23558_A_25646169	NC_021163.1	Ca_Kabuli_Chr04	25646169	GG	TT	TT	INTERGENIC			
SNP_23559_A_25647602	NC_021163.1	Ca_Kabuli_Chr04	25647602	AA	GG	GG	INTERGENIC			
SNP_23560_A_25647714	NC_021163.1	Ca_Kabuli_Chr04	25647714	AA	TT	TT	INTERGENIC			
SNP_23561_A_25649605	NC_021163.1	Ca_Kabuli_Chr04	25649605	TT	GG	GG	DRR	101510372	xylosyltransferase 2	
SNP_23563_A_25659486	NC_021163.1	Ca_Kabuli_Chr04	25659486	AA	TT	TT	INTERGENIC			
SNP_23564_A_25659647	NC_021163.1	Ca_Kabuli_Chr04	25659647	GG	AA	AA	INTERGENIC			
SNP_23565_A_25673585	NC_021163.1	Ca_Kabuli_Chr04	25673585	CC	TT	TT	INTERGENIC			
SNP_23566_A_25675046	NC_021163.1	Ca_Kabuli_Chr04	25675046	GG	AA	AA	INTERGENIC			
SNP_23567_A_25675898	NC_021163.1	Ca_Kabuli_Chr04	25675898	CC	AA	AA	INTERGENIC			
SNP_23568_A_25679872	NC_021163.1	Ca_Kabuli_Chr04	25679872	AA	GG	GG	INTERGENIC			
SNP_23569_A_25681696	NC_021163.1	Ca_Kabuli_Chr04	25681696	TT	CC	CC	INTERGENIC			
SNP_23570_A_25683594	NC_021163.1	Ca_Kabuli_Chr04	25683594	TT	GG	GG	INTERGENIC			
SNP_23571_A_25683634	NC_021163.1	Ca_Kabuli_Chr04	25683634	AA	GG	GG	INTERGENIC			
SNP_23572_A_25684064	NC_021163.1	Ca_Kabuli_Chr04	25684064	TT	CC	CC	INTERGENIC			
SNP_23573_A_25685113	NC_021163.1	Ca_Kabuli_Chr04	25685113	GG	AA	AA	INTERGENIC			

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SNP_23574_A_25685975	NC_021163.1	Ca_Kabuli_Chr04	25685975	GG	AA	AA	INTERGENIC			
SNP_23575_A_25685988	NC_021163.1	Ca_Kabuli_Chr04	25685988	TT	GG	GG	INTERGENIC			
SNP_23576_A_25686198	NC_021163.1	Ca_Kabuli_Chr04	25686198	GG	AA	AA	INTERGENIC			
SNP_23577_A_25686396	NC_021163.1	Ca_Kabuli_Chr04	25686396	TT	CC	CC	INTERGENIC			
SNP_23578_A_25693684	NC_021163.1	Ca_Kabuli_Chr04	25693684	AA	CC	CC	INTERGENIC			
SNP_23579_A_25695917	NC_021163.1	Ca_Kabuli_Chr04	25695917	TT	AA	AA	INTERGENIC			
SNP_23580_A_25695974	NC_021163.1	Ca_Kabuli_Chr04	25695974	CC	TT	TT	INTERGENIC			
SNP_23581_A_25699169	NC_021163.1	Ca_Kabuli_Chr04	25699169	AA	GG	GG	INTERGENIC			
SNP_23582_A_25699256	NC_021163.1	Ca_Kabuli_Chr04	25699256	GG	CC	CC	INTERGENIC			
SNP_23583_A_25699943	NC_021163.1	Ca_Kabuli_Chr04	25699943	GG	AA	AA	INTERGENIC			
SNP_23584_A_25699960	NC_021163.1	Ca_Kabuli_Chr04	25699960	GG	AA	AA	INTERGENIC			
SNP_23585_A_25703453	NC_021163.1	Ca_Kabuli_Chr04	25703453	GG	AA	AA	INTERGENIC			
SNP_23586_A_25710225	NC_021163.1	Ca_Kabuli_Chr04	25710225	AA	TT	TT	INTERGENIC			
SNP_23587_A_25717228	NC_021163.1	Ca_Kabuli_Chr04	25717228	TT	GG	GG	INTERGENIC			
SNP_23588_A_25717378	NC_021163.1	Ca_Kabuli_Chr04	25717378	TT	AA	AA	INTERGENIC			
SNP_23589_A_25720921	NC_021163.1	Ca_Kabuli_Chr04	25720921	AA	GG	GG	INTERGENIC			
SNP_23590_A_25723399	NC_021163.1	Ca_Kabuli_Chr04	25723399	TT	CC	CC	INTERGENIC			
SNP_23591_A_25723475	NC_021163.1	Ca_Kabuli_Chr04	25723475	CC	TT	TT	INTERGENIC			
SNP_23592_A_25723830	NC_021163.1	Ca_Kabuli_Chr04	25723830	CC	TT	TT	INTERGENIC			
SNP_23593_A_25731102	NC_021163.1	Ca_Kabuli_Chr04	25731102	CC	TT	TT	INTERGENIC			
SNP_23594_A_25731400	NC_021163.1	Ca_Kabuli_Chr04	25731400	GG	CC	CC	INTERGENIC			
SNP_23595_A_25741517	NC_021163.1	Ca_Kabuli_Chr04	25741517	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23596_A_25744472	NC_021163.1	Ca_Kabuli_Chr04	25744472	TT	AA	AA	INTERGENIC			
SNP_23597_A_25754687	NC_021163.1	Ca_Kabuli_Chr04	25754687	CC	AA	AA	DRR	101511329		lachrymatory-factor synthase-like
SNP_23599_A_25760195	NC_021163.1	Ca_Kabuli_Chr04	25760195	GG	AA	AA	INTERGENIC			
SNP_23600_A_25760566	NC_021163.1	Ca_Kabuli_Chr04	25760566	CC	TT	TT	INTERGENIC			
SNP_23601_A_25760572	NC_021163.1	Ca_Kabuli_Chr04	25760572	TT	CC	CC	INTERGENIC			
SNP_23602_A_25763196	NC_021163.1	Ca_Kabuli_Chr04	25763196	GG	TT	TT	INTERGENIC			
SNP_23604_A_25768465	NC_021163.1	Ca_Kabuli_Chr04	25768465	AA	GG	GG	INTERGENIC			
SNP_23605_A_25768466	NC_021163.1	Ca_Kabuli_Chr04	25768466	AA	GG	GG	INTERGENIC			
SNP_23606_A_25768479	NC_021163.1	Ca_Kabuli_Chr04	25768479	GG	TT	TT	INTERGENIC			
SNP_23607_A_25768481	NC_021163.1	Ca_Kabuli_Chr04	25768481	AA	GG	GG	INTERGENIC			
SNP_23608_A_25772681	NC_021163.1	Ca_Kabuli_Chr04	25772681	AA	GG	GG	INTERGENIC			
SNP_23609_A_25775971	NC_021163.1	Ca_Kabuli_Chr04	25775971	TT	CC	CC	INTERGENIC			
SNP_23611_A_25776622	NC_021163.1	Ca_Kabuli_Chr04	25776622	CC	TT	TT	INTERGENIC			
SNP_23613_A_25784140	NC_021163.1	Ca_Kabuli_Chr04	25784140	CC	TT	TT	INTERGENIC			
SNP_23614_A_25790132	NC_021163.1	Ca_Kabuli_Chr04	25790132	CC	TT	TT	INTRON	101494587		Unknown function
SNP_23616_A_25790550	NC_021163.1	Ca_Kabuli_Chr04	25790550	TT	CC	CC	INTRON	101494587		Unknown function
SNP_23617_A_25790566	NC_021163.1	Ca_Kabuli_Chr04	25790566	GG	AA	AA	INTRON	101494587		Unknown function
SNP_23618_A_25790654	NC_021163.1	Ca_Kabuli_Chr04	25790654	CC	TT	TT	INTRON	101494587		Unknown function
SNP_23619_A_25790779	NC_021163.1	Ca_Kabuli_Chr04	25790779	CC	TT	TT	INTRON	101494587		Unknown function
SNP_23620_A_25793178	NC_021163.1	Ca_Kabuli_Chr04	25793178	CC	AA	AA	URR	101494587		Unknown function
SNP_23621_A_25793854	NC_021163.1	Ca_Kabuli_Chr04	25793854	CC	TT	TT	URR	101494587		Unknown function
SNP_23622_A_25803666	NC_021163.1	Ca_Kabuli_Chr04	25803666	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23623_A_25803723	NC_021163.1	Ca_Kabuli_Chr04	25803723	GG	AA	AA	INTERGENIC		
SNP_23624_A_25807511	NC_021163.1	Ca_Kabuli_Chr04	25807511	AA	GG	GG	SYNONYMOUS_CODING	101511976	uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic
SNP_23626_A_25814068	NC_021163.1	Ca_Kabuli_Chr04	25814068	CC	GG	GG	INTRON	101511976	uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic
SNP_23627_A_25815454	NC_021163.1	Ca_Kabuli_Chr04	25815454	TT	CC	CC	INTRON	101511976	uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic
SNP_23628_A_25817195	NC_021163.1	Ca_Kabuli_Chr04	25817195	TT	CC	CC	INTRON	101511976	uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic
SNP_23629_A_25818324	NC_021163.1	Ca_Kabuli_Chr04	25818324	AA	TT	TT	INTRON	101511976	uncharacterized aarF domain-containing protein kinase At1g71810, chloroplastic
SNP_23632_A_25824859	NC_021163.1	Ca_Kabuli_Chr04	25824859	TT	CC	CC	INTERGENIC		
SNP_23633_A_25829358	NC_021163.1	Ca_Kabuli_Chr04	25829358	AA	TT	TT	INTERGENIC		
SNP_23634_A_25833696	NC_021163.1	Ca_Kabuli_Chr04	25833696	GG	AA	AA	INTERGENIC		
SNP_23636_A_25847303	NC_021163.1	Ca_Kabuli_Chr04	25847303	CC	TT	TT	INTERGENIC		
SNP_23637_A_25847655	NC_021163.1	Ca_Kabuli_Chr04	25847655	CC	AA	AA	INTERGENIC		
SNP_23639_A_25847740	NC_021163.1	Ca_Kabuli_Chr04	25847740	GG	TT	TT	INTERGENIC		
SNP_23640_A_25857538	NC_021163.1	Ca_Kabuli_Chr04	25857538	TT	GG	GG	DRR	101495228	putative B3 domain-containing protein At1g78640
SNP_23641_A_25860451	NC_021163.1	Ca_Kabuli_Chr04	25860451	CC	TT	TT	URR	101495228	putative B3 domain-containing protein At1g78640
SNP_23642_A_25866443	NC_021163.1	Ca_Kabuli_Chr04	25866443	GG	CC	CC	INTERGENIC		
SNP_23643_A_25867541	NC_021163.1	Ca_Kabuli_Chr04	25867541	CC	TT	TT	INTERGENIC		
SNP_23644_A_25867568	NC_021163.1	Ca_Kabuli_Chr04	25867568	AA	GG	GG	INTERGENIC		
SNP_23645_A_25878849	NC_021163.1	Ca_Kabuli_Chr04	25878849	GG	AA	AA	INTERGENIC		
SNP_23646_A_25882677	NC_021163.1	Ca_Kabuli_Chr04	25882677	GG	TT	TT	INTERGENIC		
SNP_23647_A_25884462	NC_021163.1	Ca_Kabuli_Chr04	25884462	GG	CC	CC	INTERGENIC		
SNP_23649_A_25884871	NC_021163.1	Ca_Kabuli_Chr04	25884871	GG	AA	AA	INTERGENIC		
SNP_23650_A_25885290	NC_021163.1	Ca_Kabuli_Chr04	25885290	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23651_A_25885315	NC_021163.1	Ca_Kabuli_Chr04	25885315	AA	GG	GG	INTERGENIC			
SNP_23652_A_25886998	NC_021163.1	Ca_Kabuli_Chr04	25886998	CC	TT	TT	INTERGENIC			
SNP_23653_A_25887548	NC_021163.1	Ca_Kabuli_Chr04	25887548	TT	AA	AA	INTERGENIC			
SNP_23654_A_25887712	NC_021163.1	Ca_Kabuli_Chr04	25887712	GG	AA	AA	INTERGENIC			
SNP_23655_A_25889441	NC_021163.1	Ca_Kabuli_Chr04	25889441	GG	AA	AA	INTERGENIC			
SNP_23656_A_25889475	NC_021163.1	Ca_Kabuli_Chr04	25889475	TT	CC	CC	INTERGENIC			
SNP_23657_A_25890920	NC_021163.1	Ca_Kabuli_Chr04	25890920	AA	CC	CC	INTERGENIC			
SNP_23658_A_25890969	NC_021163.1	Ca_Kabuli_Chr04	25890969	TT	GG	GG	INTERGENIC			
SNP_23659_A_25892200	NC_021163.1	Ca_Kabuli_Chr04	25892200	TT	AA	AA	INTERGENIC			
SNP_23660_A_25892771	NC_021163.1	Ca_Kabuli_Chr04	25892771	AA	CC	CC	INTERGENIC			
SNP_23661_A_25897842	NC_021163.1	Ca_Kabuli_Chr04	25897842	TT	CC	CC	INTERGENIC			
SNP_23662_A_25902925	NC_021163.1	Ca_Kabuli_Chr04	25902925	GG	AA	AA	INTERGENIC			
SNP_23663_A_25903091	NC_021163.1	Ca_Kabuli_Chr04	25903091	GG	CC	CC	INTERGENIC			
SNP_23664_A_25903105	NC_021163.1	Ca_Kabuli_Chr04	25903105	AA	CC	CC	INTERGENIC			
SNP_23665_A_25909521	NC_021163.1	Ca_Kabuli_Chr04	25909521	GG	TT	TT	INTERGENIC			
SNP_23666_A_25910328	NC_021163.1	Ca_Kabuli_Chr04	25910328	TT	AA	AA	INTERGENIC			
SNP_23667_A_25910329	NC_021163.1	Ca_Kabuli_Chr04	25910329	TT	CC	CC	INTERGENIC			
SNP_23668_A_25910696	NC_021163.1	Ca_Kabuli_Chr04	25910696	TT	CC	CC	INTERGENIC			
SNP_23669_A_25911214	NC_021163.1	Ca_Kabuli_Chr04	25911214	TT	CC	CC	INTERGENIC			
SNP_23670_A_25911444	NC_021163.1	Ca_Kabuli_Chr04	25911444	CC	AA	AA	INTERGENIC			
SNP_23671_A_25912835	NC_021163.1	Ca_Kabuli_Chr04	25912835	CC	TT	TT	INTERGENIC			
SNP_23672_A_25912899	NC_021163.1	Ca_Kabuli_Chr04	25912899	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23673_A_25913604	NC_021163.1	Ca_Kabuli_Chr04	25913604	CC	TT	TT	INTERGENIC		
SNP_23674_A_25913645	NC_021163.1	Ca_Kabuli_Chr04	25913645	TT	GG	GG	INTERGENIC		
SNP_23675_A_25916766	NC_021163.1	Ca_Kabuli_Chr04	25916766	TT	AA	AA	INTERGENIC		
SNP_23677_A_25916845	NC_021163.1	Ca_Kabuli_Chr04	25916845	GG	AA	AA	INTERGENIC		
SNP_23678_A_25916920	NC_021163.1	Ca_Kabuli_Chr04	25916920	AA	CC	CC	INTERGENIC		
SNP_23679_A_25916984	NC_021163.1	Ca_Kabuli_Chr04	25916984	CC	AA	AA	INTERGENIC		
SNP_23680_A_25917031	NC_021163.1	Ca_Kabuli_Chr04	25917031	CC	TT	TT	INTERGENIC		
SNP_23681_A_25917105	NC_021163.1	Ca_Kabuli_Chr04	25917105	CC	TT	TT	INTERGENIC		
SNP_23682_A_25923959	NC_021163.1	Ca_Kabuli_Chr04	25923959	GG	TT	TT	URR	101514461	3-ketoacyl-CoA thiolase 2, peroxisomal
SNP_23683_A_25923977	NC_021163.1	Ca_Kabuli_Chr04	25923977	GG	AA	AA	URR	101514461	3-ketoacyl-CoA thiolase 2, peroxisomal
SNP_23685_A_25926006	NC_021163.1	Ca_Kabuli_Chr04	25926006	AA	GG	GG	INTERGENIC		
SNP_23686_A_25926799	NC_021163.1	Ca_Kabuli_Chr04	25926799	GG	AA	AA	INTERGENIC		
SNP_23687_A_25934778	NC_021163.1	Ca_Kabuli_Chr04	25934778	AA	GG	GG	INTERGENIC		
SNP_23688_A_25934940	NC_021163.1	Ca_Kabuli_Chr04	25934940	GG	TT	TT	INTERGENIC		
SNP_23689_A_25937309	NC_021163.1	Ca_Kabuli_Chr04	25937309	GG	AA	AA	INTERGENIC		
SNP_23691_A_25937554	NC_021163.1	Ca_Kabuli_Chr04	25937554	GG	AA	AA	INTERGENIC		
SNP_23692_A_25939551	NC_021163.1	Ca_Kabuli_Chr04	25939551	TT	CC	CC	INTERGENIC		
SNP_23693_A_25940156	NC_021163.1	Ca_Kabuli_Chr04	25940156	AA	GG	GG	INTERGENIC		
SNP_23694_A_25940187	NC_021163.1	Ca_Kabuli_Chr04	25940187	GG	TT	TT	INTERGENIC		
SNP_23696_A_25940234	NC_021163.1	Ca_Kabuli_Chr04	25940234	AA	GG	GG	INTERGENIC		
SNP_23697_A_25940402	NC_021163.1	Ca_Kabuli_Chr04	25940402	TT	CC	CC	INTERGENIC		
SNP_23698_A_25942364	NC_021163.1	Ca_Kabuli_Chr04	25942364	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23700_A_25943464	NC_021163.1	Ca_Kabuli_Chr04	25943464	GG	CC	CC	INTERGENIC		
SNP_23701_A_25945430	NC_021163.1	Ca_Kabuli_Chr04	25945430	GG	AA	AA	INTERGENIC		
SNP_23702_A_25948671	NC_021163.1	Ca_Kabuli_Chr04	25948671	TT	GG	GG	INTERGENIC		
SNP_23703_A_25948746	NC_021163.1	Ca_Kabuli_Chr04	25948746	GG	AA	AA	INTERGENIC		
SNP_23704_A_25949189	NC_021163.1	Ca_Kabuli_Chr04	25949189	GG	TT	TT	DRR	101514785	uncharacterized LOC101514785
SNP_23705_A_25949209	NC_021163.1	Ca_Kabuli_Chr04	25949209	CC	TT	TT	DRR	101514785	uncharacterized LOC101514785
SNP_23706_A_25949616	NC_021163.1	Ca_Kabuli_Chr04	25949616	GG	AA	AA	DRR	101514785	uncharacterized LOC101514785
SNP_23707_A_25949802	NC_021163.1	Ca_Kabuli_Chr04	25949802	CC	TT	TT	DRR	101514785	uncharacterized LOC101514785
SNP_23708_A_25949838	NC_021163.1	Ca_Kabuli_Chr04	25949838	TT	AA	AA	DRR	101514785	uncharacterized LOC101514785
SNP_23709_A_25950191	NC_021163.1	Ca_Kabuli_Chr04	25950191	CC	AA	AA	SYNONYMOUS_CODING	id85088	Unknown function
SNP_23710_A_25950624	NC_021163.1	Ca_Kabuli_Chr04	25950624	CC	TT	TT	INTRON	id85088	Unknown function
SNP_23711_A_25954225	NC_021163.1	Ca_Kabuli_Chr04	25954225	GG	AA	AA	INTERGENIC		
SNP_23714_A_25956691	NC_021163.1	Ca_Kabuli_Chr04	25956691	GG	TT	TT	URR	101514785	uncharacterized LOC101514785
SNP_23715_A_25957471	NC_021163.1	Ca_Kabuli_Chr04	25957471	AA	TT	TT	URR	101496535	Unknown function
SNP_23716_A_25957595	NC_021163.1	Ca_Kabuli_Chr04	25957595	TT	AA	AA	URR	101496535	Unknown function
SNP_23717_A_25957853	NC_021163.1	Ca_Kabuli_Chr04	25957853	CC	AA	AA	URR	101496535	Unknown function
SNP_23718_A_25957943	NC_021163.1	Ca_Kabuli_Chr04	25957943	GG	AA	AA	URR	101496535	Unknown function
SNP_23719_A_25962491	NC_021163.1	Ca_Kabuli_Chr04	25962491	AA	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23720_A_25962559	NC_021163.1	Ca_Kabuli_Chr04	25962559	CC	GG	GG	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23721_A_25962651	NC_021163.1	Ca_Kabuli_Chr04	25962651	CC	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23722_A_25962759	NC_021163.1	Ca_Kabuli_Chr04	25962759	TT	GG	GG	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23723_A_25962799	NC_021163.1	Ca_Kabuli_Chr04	25962799	TT	AA	AA	URR	101497196	putative B3 domain-containing protein At1g78640

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23726_A_25963017	NC_021163.1	Ca_Kabuli_Chr04	25963017	AA	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23728_A_25963259	NC_021163.1	Ca_Kabuli_Chr04	25963259	GG	AA	AA	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23730_A_25963301	NC_021163.1	Ca_Kabuli_Chr04	25963301	TT	CC	CC	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23732_A_25963410	NC_021163.1	Ca_Kabuli_Chr04	25963410	CC	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23734_A_25963486	NC_021163.1	Ca_Kabuli_Chr04	25963486	AA	CC	CC	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23735_A_25963487	NC_021163.1	Ca_Kabuli_Chr04	25963487	GG	AA	AA	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23736_A_25963505	NC_021163.1	Ca_Kabuli_Chr04	25963505	AA	CC	CC	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23737_A_25963509	NC_021163.1	Ca_Kabuli_Chr04	25963509	GG	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23738_A_25963540	NC_021163.1	Ca_Kabuli_Chr04	25963540	TT	CC	CC	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23739_A_25963542	NC_021163.1	Ca_Kabuli_Chr04	25963542	GG	AA	AA	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23740_A_25963574	NC_021163.1	Ca_Kabuli_Chr04	25963574	CC	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23741_A_25963588	NC_021163.1	Ca_Kabuli_Chr04	25963588	CC	TT	TT	URR	101497196	putative B3 domain-containing protein At1g78640
SNP_23742_A_25964269	NC_021163.1	Ca_Kabuli_Chr04	25964269	CC	AA	AA	INTERGENIC		
SNP_23743_A_25964286	NC_021163.1	Ca_Kabuli_Chr04	25964286	TT	CC	CC	INTERGENIC		
SNP_23744_A_25964296	NC_021163.1	Ca_Kabuli_Chr04	25964296	CC	TT	TT	INTERGENIC		
SNP_23745_A_25964368	NC_021163.1	Ca_Kabuli_Chr04	25964368	GG	AA	AA	INTERGENIC		
SNP_23746_A_25964478	NC_021163.1	Ca_Kabuli_Chr04	25964478	AA	GG	GG	INTERGENIC		
SNP_23747_A_25964543	NC_021163.1	Ca_Kabuli_Chr04	25964543	AA	GG	GG	INTERGENIC		
SNP_23748_A_25964692	NC_021163.1	Ca_Kabuli_Chr04	25964692	AA	CC	CC	INTERGENIC		
SNP_23749_A_25964701	NC_021163.1	Ca_Kabuli_Chr04	25964701	CC	TT	TT	INTERGENIC		
SNP_23750_A_25964738	NC_021163.1	Ca_Kabuli_Chr04	25964738	AA	GG	GG	INTERGENIC		
SNP_23751_A_25964847	NC_021163.1	Ca_Kabuli_Chr04	25964847	GG	TT	TT	INTERGENIC		

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SNP_23752_A_25964855	NC_021163.1	Ca_Kabuli_Chr04	25964855	AA	CC	CC	INTERGENIC			
SNP_23753_A_25965130	NC_021163.1	Ca_Kabuli_Chr04	25965130	AA	GG	GG	INTERGENIC			
SNP_23754_A_25965188	NC_021163.1	Ca_Kabuli_Chr04	25965188	TT	GG	GG	INTERGENIC			
SNP_23755_A_25965211	NC_021163.1	Ca_Kabuli_Chr04	25965211	CC	TT	TT	INTERGENIC			
SNP_23756_A_25965337	NC_021163.1	Ca_Kabuli_Chr04	25965337	AA	CC	CC	INTERGENIC			
SNP_23758_A_25965466	NC_021163.1	Ca_Kabuli_Chr04	25965466	CC	AA	AA	INTERGENIC			
SNP_23759_A_25965544	NC_021163.1	Ca_Kabuli_Chr04	25965544	GG	CC	CC	INTERGENIC			
SNP_23760_A_25965801	NC_021163.1	Ca_Kabuli_Chr04	25965801	GG	TT	TT	INTERGENIC			
SNP_23761_A_25965820	NC_021163.1	Ca_Kabuli_Chr04	25965820	GG	AA	AA	INTERGENIC			
SNP_23762_A_25965854	NC_021163.1	Ca_Kabuli_Chr04	25965854	AA	CC	CC	INTERGENIC			
SNP_23763_A_25965883	NC_021163.1	Ca_Kabuli_Chr04	25965883	GG	AA	AA	INTERGENIC			
SNP_23764_A_25966064	NC_021163.1	Ca_Kabuli_Chr04	25966064	CC	GG	GG	INTERGENIC			
SNP_23766_A_25966076	NC_021163.1	Ca_Kabuli_Chr04	25966076	GG	AA	AA	INTERGENIC			
SNP_23767_A_25966085	NC_021163.1	Ca_Kabuli_Chr04	25966085	TT	AA	AA	INTERGENIC			
SNP_23768_A_25966093	NC_021163.1	Ca_Kabuli_Chr04	25966093	TT	GG	GG	INTERGENIC			
SNP_23769_A_25966111	NC_021163.1	Ca_Kabuli_Chr04	25966111	TT	GG	GG	INTERGENIC			
SNP_23770_A_25966283	NC_021163.1	Ca_Kabuli_Chr04	25966283	TT	GG	GG	INTERGENIC			
SNP_23771_A_25966307	NC_021163.1	Ca_Kabuli_Chr04	25966307	GG	AA	AA	INTERGENIC			
SNP_23772_A_25966309	NC_021163.1	Ca_Kabuli_Chr04	25966309	AA	GG	GG	INTERGENIC			
SNP_23773_A_25966318	NC_021163.1	Ca_Kabuli_Chr04	25966318	CC	TT	TT	INTERGENIC			
SNP_23774_A_25966360	NC_021163.1	Ca_Kabuli_Chr04	25966360	CC	TT	TT	INTERGENIC			
SNP_23775_A_25966366	NC_021163.1	Ca_Kabuli_Chr04	25966366	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23776_A_25966379	NC_021163.1	Ca_Kabuli_Chr04	25966379	GG	AA	AA	INTERGENIC			
SNP_23777_A_25966399	NC_021163.1	Ca_Kabuli_Chr04	25966399	CC	AA	AA	INTERGENIC			
SNP_23778_A_25966407	NC_021163.1	Ca_Kabuli_Chr04	25966407	AA	GG	GG	INTERGENIC			
SNP_23779_A_25966420	NC_021163.1	Ca_Kabuli_Chr04	25966420	GG	AA	AA	INTERGENIC			
SNP_23780_A_25966445	NC_021163.1	Ca_Kabuli_Chr04	25966445	TT	AA	AA	INTERGENIC			
SNP_23781_A_25966458	NC_021163.1	Ca_Kabuli_Chr04	25966458	TT	AA	AA	INTERGENIC			
SNP_23782_A_25966544	NC_021163.1	Ca_Kabuli_Chr04	25966544	CC	GG	GG	INTERGENIC			
SNP_23783_A_25966548	NC_021163.1	Ca_Kabuli_Chr04	25966548	AA	GG	GG	INTERGENIC			
SNP_23784_A_25966590	NC_021163.1	Ca_Kabuli_Chr04	25966590	CC	TT	TT	INTERGENIC			
SNP_23785_A_25966709	NC_021163.1	Ca_Kabuli_Chr04	25966709	AA	GG	GG	INTERGENIC			
SNP_23786_A_25966726	NC_021163.1	Ca_Kabuli_Chr04	25966726	AA	GG	GG	INTERGENIC			
SNP_23787_A_25966738	NC_021163.1	Ca_Kabuli_Chr04	25966738	TT	GG	GG	INTERGENIC			
SNP_23788_A_25966741	NC_021163.1	Ca_Kabuli_Chr04	25966741	CC	AA	AA	INTERGENIC			
SNP_23789_A_25966756	NC_021163.1	Ca_Kabuli_Chr04	25966756	AA	TT	TT	INTERGENIC			
SNP_23790_A_25966782	NC_021163.1	Ca_Kabuli_Chr04	25966782	CC	AA	AA	INTERGENIC			
SNP_23791_A_25966860	NC_021163.1	Ca_Kabuli_Chr04	25966860	AA	TT	TT	INTERGENIC			
SNP_23792_A_25966887	NC_021163.1	Ca_Kabuli_Chr04	25966887	AA	TT	TT	INTERGENIC			
SNP_23793_A_25966909	NC_021163.1	Ca_Kabuli_Chr04	25966909	AA	GG	GG	INTERGENIC			
SNP_23794_A_25966927	NC_021163.1	Ca_Kabuli_Chr04	25966927	AA	GG	GG	INTERGENIC			
SNP_23795_A_25966935	NC_021163.1	Ca_Kabuli_Chr04	25966935	CC	TT	TT	INTERGENIC			
SNP_23796_A_25966953	NC_021163.1	Ca_Kabuli_Chr04	25966953	GG	TT	TT	INTERGENIC			
SNP_23797_A_25966999	NC_021163.1	Ca_Kabuli_Chr04	25966999	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23798_A_25967073	NC_021163.1	Ca_Kabuli_Chr04	25967073	GG	TT	TT	INTERGENIC			
SNP_23799_A_25967125	NC_021163.1	Ca_Kabuli_Chr04	25967125	GG	AA	AA	INTERGENIC			
SNP_23800_A_25967142	NC_021163.1	Ca_Kabuli_Chr04	25967142	AA	CC	CC	INTERGENIC			
SNP_23802_A_25967344	NC_021163.1	Ca_Kabuli_Chr04	25967344	GG	AA	AA	INTERGENIC			
SNP_23803_A_25967711	NC_021163.1	Ca_Kabuli_Chr04	25967711	TT	GG	GG	INTERGENIC			
SNP_23804_A_25967788	NC_021163.1	Ca_Kabuli_Chr04	25967788	AA	GG	GG	INTERGENIC			
SNP_23805_A_25967795	NC_021163.1	Ca_Kabuli_Chr04	25967795	AA	CC	CC	INTERGENIC			
SNP_23806_A_25967968	NC_021163.1	Ca_Kabuli_Chr04	25967968	CC	TT	TT	INTERGENIC			
SNP_23808_A_25968001	NC_021163.1	Ca_Kabuli_Chr04	25968001	CC	GG	GG	INTERGENIC			
SNP_23809_A_25968019	NC_021163.1	Ca_Kabuli_Chr04	25968019	CC	AA	AA	INTERGENIC			
SNP_23810_A_25968020	NC_021163.1	Ca_Kabuli_Chr04	25968020	AA	TT	TT	INTERGENIC			
SNP_23811_A_25968028	NC_021163.1	Ca_Kabuli_Chr04	25968028	CC	TT	TT	INTERGENIC			
SNP_23812_A_25968065	NC_021163.1	Ca_Kabuli_Chr04	25968065	TT	GG	GG	INTERGENIC			
SNP_23813_A_25968240	NC_021163.1	Ca_Kabuli_Chr04	25968240	TT	CC	CC	INTERGENIC			
SNP_23814_A_25968297	NC_021163.1	Ca_Kabuli_Chr04	25968297	TT	AA	AA	INTERGENIC			
SNP_23815_A_25968319	NC_021163.1	Ca_Kabuli_Chr04	25968319	CC	AA	AA	INTERGENIC			
SNP_23816_A_25968364	NC_021163.1	Ca_Kabuli_Chr04	25968364	AA	CC	CC	INTERGENIC			
SNP_23817_A_25968422	NC_021163.1	Ca_Kabuli_Chr04	25968422	CC	AA	AA	INTERGENIC			
SNP_23818_A_25968462	NC_021163.1	Ca_Kabuli_Chr04	25968462	TT	CC	CC	INTERGENIC			
SNP_23819_A_25968501	NC_021163.1	Ca_Kabuli_Chr04	25968501	TT	GG	GG	INTERGENIC			
SNP_23820_A_25968743	NC_021163.1	Ca_Kabuli_Chr04	25968743	TT	AA	AA	INTERGENIC			
SNP_23821_A_25968765	NC_021163.1	Ca_Kabuli_Chr04	25968765	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23823_A_25968852	NC_021163.1	Ca_Kabuli_Chr04	25968852	TT	CC	CC	INTERGENIC			
SNP_23824_A_25968923	NC_021163.1	Ca_Kabuli_Chr04	25968923	TT	CC	CC	INTERGENIC			
SNP_23825_A_25968976	NC_021163.1	Ca_Kabuli_Chr04	25968976	CC	TT	TT	INTERGENIC			
SNP_23826_A_25969138	NC_021163.1	Ca_Kabuli_Chr04	25969138	TT	CC	CC	INTERGENIC			
SNP_23827_A_25969257	NC_021163.1	Ca_Kabuli_Chr04	25969257	AA	GG	GG	INTERGENIC			
SNP_23828_A_25969297	NC_021163.1	Ca_Kabuli_Chr04	25969297	GG	AA	AA	INTERGENIC			
SNP_23829_A_25969321	NC_021163.1	Ca_Kabuli_Chr04	25969321	AA	GG	GG	INTERGENIC			
SNP_23830_A_25969489	NC_021163.1	Ca_Kabuli_Chr04	25969489	CC	AA	AA	INTERGENIC			
SNP_23832_A_25969551	NC_021163.1	Ca_Kabuli_Chr04	25969551	GG	AA	AA	INTERGENIC			
SNP_23833_A_25969578	NC_021163.1	Ca_Kabuli_Chr04	25969578	CC	TT	TT	INTERGENIC			
SNP_23834_A_25969613	NC_021163.1	Ca_Kabuli_Chr04	25969613	CC	TT	TT	INTERGENIC			
SNP_23835_A_25969625	NC_021163.1	Ca_Kabuli_Chr04	25969625	CC	TT	TT	INTERGENIC			
SNP_23836_A_25969630	NC_021163.1	Ca_Kabuli_Chr04	25969630	GG	AA	AA	INTERGENIC			
SNP_23837_A_25969715	NC_021163.1	Ca_Kabuli_Chr04	25969715	GG	AA	AA	INTERGENIC			
SNP_23838_A_25969738	NC_021163.1	Ca_Kabuli_Chr04	25969738	AA	GG	GG	INTERGENIC			
SNP_23839_A_25969792	NC_021163.1	Ca_Kabuli_Chr04	25969792	AA	GG	GG	INTERGENIC			
SNP_23840_A_25969813	NC_021163.1	Ca_Kabuli_Chr04	25969813	AA	GG	GG	INTERGENIC			
SNP_23841_A_25969849	NC_021163.1	Ca_Kabuli_Chr04	25969849	TT	CC	CC	INTERGENIC			
SNP_23842_A_25969872	NC_021163.1	Ca_Kabuli_Chr04	25969872	AA	GG	GG	INTERGENIC			
SNP_23843_A_25969892	NC_021163.1	Ca_Kabuli_Chr04	25969892	AA	GG	GG	INTERGENIC			
SNP_23844_A_25970135	NC_021163.1	Ca_Kabuli_Chr04	25970135	AA	GG	GG	INTERGENIC			
SNP_23846_A_25970181	NC_021163.1	Ca_Kabuli_Chr04	25970181	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23847_A_25970244	NC_021163.1	Ca_Kabuli_Chr04	25970244	AA	TT	TT	INTERGENIC			
SNP_23848_A_25970296	NC_021163.1	Ca_Kabuli_Chr04	25970296	CC	TT	TT	INTERGENIC			
SNP_23849_A_25970386	NC_021163.1	Ca_Kabuli_Chr04	25970386	GG	AA	AA	INTERGENIC			
SNP_23850_A_25970396	NC_021163.1	Ca_Kabuli_Chr04	25970396	CC	TT	TT	INTERGENIC			
SNP_23851_A_25970399	NC_021163.1	Ca_Kabuli_Chr04	25970399	GG	AA	AA	INTERGENIC			
SNP_23852_A_25970426	NC_021163.1	Ca_Kabuli_Chr04	25970426	CC	AA	AA	INTERGENIC			
SNP_23853_A_25970467	NC_021163.1	Ca_Kabuli_Chr04	25970467	AA	CC	CC	INTERGENIC			
SNP_23854_A_25970527	NC_021163.1	Ca_Kabuli_Chr04	25970527	CC	AA	AA	INTERGENIC			
SNP_23855_A_25970562	NC_021163.1	Ca_Kabuli_Chr04	25970562	TT	GG	GG	INTERGENIC			
SNP_23856_A_25970563	NC_021163.1	Ca_Kabuli_Chr04	25970563	CC	AA	AA	INTERGENIC			
SNP_23857_A_25970583	NC_021163.1	Ca_Kabuli_Chr04	25970583	TT	AA	AA	INTERGENIC			
SNP_23858_A_25970599	NC_021163.1	Ca_Kabuli_Chr04	25970599	GG	TT	TT	INTERGENIC			
SNP_23859_A_25970609	NC_021163.1	Ca_Kabuli_Chr04	25970609	AA	CC	CC	INTERGENIC			
SNP_23860_A_25970671	NC_021163.1	Ca_Kabuli_Chr04	25970671	GG	AA	AA	INTERGENIC			
SNP_23861_A_25970730	NC_021163.1	Ca_Kabuli_Chr04	25970730	TT	GG	GG	INTERGENIC			
SNP_23862_A_25970749	NC_021163.1	Ca_Kabuli_Chr04	25970749	GG	AA	AA	INTERGENIC			
SNP_23863_A_25970762	NC_021163.1	Ca_Kabuli_Chr04	25970762	GG	AA	AA	INTERGENIC			
SNP_23864_A_25970766	NC_021163.1	Ca_Kabuli_Chr04	25970766	AA	GG	GG	INTERGENIC			
SNP_23865_A_25970795	NC_021163.1	Ca_Kabuli_Chr04	25970795	CC	AA	AA	INTERGENIC			
SNP_23866_A_25970855	NC_021163.1	Ca_Kabuli_Chr04	25970855	GG	AA	AA	INTERGENIC			
SNP_23867_A_25970866	NC_021163.1	Ca_Kabuli_Chr04	25970866	AA	CC	CC	INTERGENIC			
SNP_23868_A_25970867	NC_021163.1	Ca_Kabuli_Chr04	25970867	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23869_A_25970880	NC_021163.1	Ca_Kabuli_Chr04	25970880	GG	AA	AA	INTERGENIC			
SNP_23870_A_25970912	NC_021163.1	Ca_Kabuli_Chr04	25970912	TT	GG	GG	INTERGENIC			
SNP_23871_A_25971024	NC_021163.1	Ca_Kabuli_Chr04	25971024	GG	TT	TT	INTERGENIC			
SNP_23872_A_25971030	NC_021163.1	Ca_Kabuli_Chr04	25971030	CC	TT	TT	INTERGENIC			
SNP_23873_A_25971077	NC_021163.1	Ca_Kabuli_Chr04	25971077	TT	CC	CC	INTERGENIC			
SNP_23874_A_25971140	NC_021163.1	Ca_Kabuli_Chr04	25971140	TT	CC	CC	INTERGENIC			
SNP_23875_A_25971158	NC_021163.1	Ca_Kabuli_Chr04	25971158	GG	AA	AA	INTERGENIC			
SNP_23876_A_25971221	NC_021163.1	Ca_Kabuli_Chr04	25971221	TT	CC	CC	INTERGENIC			
SNP_23877_A_25971402	NC_021163.1	Ca_Kabuli_Chr04	25971402	TT	GG	GG	INTERGENIC			
SNP_23878_A_25971626	NC_021163.1	Ca_Kabuli_Chr04	25971626	CC	TT	TT	INTERGENIC			
SNP_23879_A_25971651	NC_021163.1	Ca_Kabuli_Chr04	25971651	TT	CC	CC	INTERGENIC			
SNP_23881_A_25971711	NC_021163.1	Ca_Kabuli_Chr04	25971711	TT	GG	GG	INTERGENIC			
SNP_23883_A_25971859	NC_021163.1	Ca_Kabuli_Chr04	25971859	TT	GG	GG	INTERGENIC			
SNP_23884_A_25971914	NC_021163.1	Ca_Kabuli_Chr04	25971914	GG	AA	AA	INTERGENIC			
SNP_23885_A_25972029	NC_021163.1	Ca_Kabuli_Chr04	25972029	GG	AA	AA	INTERGENIC			
SNP_23886_A_25972099	NC_021163.1	Ca_Kabuli_Chr04	25972099	TT	AA	AA	INTERGENIC			
SNP_23887_A_25972155	NC_021163.1	Ca_Kabuli_Chr04	25972155	TT	CC	CC	INTERGENIC			
SNP_23888_A_25972173	NC_021163.1	Ca_Kabuli_Chr04	25972173	CC	AA	AA	INTERGENIC			
SNP_23889_A_25972204	NC_021163.1	Ca_Kabuli_Chr04	25972204	CC	AA	AA	INTERGENIC			
SNP_23890_A_25972211	NC_021163.1	Ca_Kabuli_Chr04	25972211	GG	TT	TT	INTERGENIC			
SNP_23891_A_25972223	NC_021163.1	Ca_Kabuli_Chr04	25972223	AA	CC	CC	INTERGENIC			
SNP_23892_A_25972505	NC_021163.1	Ca_Kabuli_Chr04	25972505	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23893_A_25972524	NC_021163.1	Ca_Kabuli_Chr04	25972524	AA	GG	GG	INTERGENIC			
SNP_23894_A_25972577	NC_021163.1	Ca_Kabuli_Chr04	25972577	GG	AA	AA	INTERGENIC			
SNP_23895_A_25972586	NC_021163.1	Ca_Kabuli_Chr04	25972586	TT	CC	CC	INTERGENIC			
SNP_23896_A_25972667	NC_021163.1	Ca_Kabuli_Chr04	25972667	GG	AA	AA	INTERGENIC			
SNP_23897_A_25972668	NC_021163.1	Ca_Kabuli_Chr04	25972668	GG	AA	AA	INTERGENIC			
SNP_23898_A_25972702	NC_021163.1	Ca_Kabuli_Chr04	25972702	AA	GG	GG	INTERGENIC			
SNP_23899_A_25972745	NC_021163.1	Ca_Kabuli_Chr04	25972745	AA	GG	GG	INTERGENIC			
SNP_23900_A_25972832	NC_021163.1	Ca_Kabuli_Chr04	25972832	TT	CC	CC	INTERGENIC			
SNP_23901_A_25972858	NC_021163.1	Ca_Kabuli_Chr04	25972858	TT	CC	CC	INTERGENIC			
SNP_23902_A_25973013	NC_021163.1	Ca_Kabuli_Chr04	25973013	AA	TT	TT	INTERGENIC			
SNP_23903_A_25973164	NC_021163.1	Ca_Kabuli_Chr04	25973164	GG	AA	AA	INTERGENIC			
SNP_23904_A_25973303	NC_021163.1	Ca_Kabuli_Chr04	25973303	TT	CC	CC	INTERGENIC			
SNP_23905_A_25973395	NC_021163.1	Ca_Kabuli_Chr04	25973395	CC	TT	TT	INTERGENIC			
SNP_23907_A_25973522	NC_021163.1	Ca_Kabuli_Chr04	25973522	AA	TT	TT	INTERGENIC			
SNP_23908_A_25973671	NC_021163.1	Ca_Kabuli_Chr04	25973671	CC	TT	TT	INTERGENIC			
SNP_23909_A_25973737	NC_021163.1	Ca_Kabuli_Chr04	25973737	TT	GG	GG	INTERGENIC			
SNP_23910_A_25973756	NC_021163.1	Ca_Kabuli_Chr04	25973756	AA	GG	GG	INTERGENIC			
SNP_23911_A_25973793	NC_021163.1	Ca_Kabuli_Chr04	25973793	TT	CC	CC	INTERGENIC			
SNP_23912_A_25973795	NC_021163.1	Ca_Kabuli_Chr04	25973795	GG	TT	TT	INTERGENIC			
SNP_23913_A_25973933	NC_021163.1	Ca_Kabuli_Chr04	25973933	TT	CC	CC	INTERGENIC			
SNP_23914_A_25973940	NC_021163.1	Ca_Kabuli_Chr04	25973940	GG	AA	AA	INTERGENIC			
SNP_23915_A_25973942	NC_021163.1	Ca_Kabuli_Chr04	25973942	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23916_A_25974065	NC_021163.1	Ca_Kabuli_Chr04	25974065	GG	TT	TT	DRR	101497527	Unknown function
SNP_23917_A_25974075	NC_021163.1	Ca_Kabuli_Chr04	25974075	GG	TT	TT	DRR	101497527	Unknown function
SNP_23918_A_25974320	NC_021163.1	Ca_Kabuli_Chr04	25974320	GG	AA	AA	DRR	101497527	Unknown function
SNP_23919_A_25974533	NC_021163.1	Ca_Kabuli_Chr04	25974533	AA	GG	GG	DRR	101497527	Unknown function
SNP_23920_A_25974540	NC_021163.1	Ca_Kabuli_Chr04	25974540	AA	GG	GG	DRR	101497527	Unknown function
SNP_23921_A_25974649	NC_021163.1	Ca_Kabuli_Chr04	25974649	TT	CC	CC	DRR	101497527	Unknown function
SNP_23922_A_25974728	NC_021163.1	Ca_Kabuli_Chr04	25974728	CC	TT	TT	DRR	101497527	Unknown function
SNP_23923_A_25974771	NC_021163.1	Ca_Kabuli_Chr04	25974771	GG	AA	AA	DRR	101497527	Unknown function
SNP_23924_A_25974777	NC_021163.1	Ca_Kabuli_Chr04	25974777	TT	CC	CC	DRR	101497527	Unknown function
SNP_23925_A_25974803	NC_021163.1	Ca_Kabuli_Chr04	25974803	AA	GG	GG	DRR	101497527	Unknown function
SNP_23927_A_25974873	NC_021163.1	Ca_Kabuli_Chr04	25974873	CC	TT	TT	DRR	101497527	Unknown function
SNP_23928_A_25974888	NC_021163.1	Ca_Kabuli_Chr04	25974888	GG	AA	AA	DRR	101497527	Unknown function
SNP_23929_A_25974945	NC_021163.1	Ca_Kabuli_Chr04	25974945	CC	GG	GG	DRR	101497527	Unknown function
SNP_23930_A_25974960	NC_021163.1	Ca_Kabuli_Chr04	25974960	GG	TT	TT	DRR	101497527	Unknown function
SNP_23931_A_25975083	NC_021163.1	Ca_Kabuli_Chr04	25975083	AA	GG	GG	SYNONYMOUS_CODING	101497527	Unknown function
SNP_23932_A_25975092	NC_021163.1	Ca_Kabuli_Chr04	25975092	TT	CC	CC	SYNONYMOUS_CODING	101497527	Unknown function
SNP_23934_A_25975190	NC_021163.1	Ca_Kabuli_Chr04	25975190	GG	AA	AA	NON_SYNONYMOUS_CODING	101497527	Unknown function
SNP_23935_A_25975245	NC_021163.1	Ca_Kabuli_Chr04	25975245	CC	TT	TT	SYNONYMOUS_CODING	101497527	Unknown function
SNP_23936_A_25975280	NC_021163.1	Ca_Kabuli_Chr04	25975280	CC	TT	TT	NON_SYNONYMOUS_CODING	101497527	Unknown function
SNP_23937_A_25975282	NC_021163.1	Ca_Kabuli_Chr04	25975282	GG	AA	AA	NON_SYNONYMOUS_CODING	101497527	Unknown function
SNP_23938_A_25975305	NC_021163.1	Ca_Kabuli_Chr04	25975305	AA	GG	GG	SYNONYMOUS_CODING	101497527	Unknown function
SNP_23939_A_25975319	NC_021163.1	Ca_Kabuli_Chr04	25975319	CC	TT	TT	NON_SYNONYMOUS_CODING	101497527	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23940_A_25975391	NC_021163.1	Ca_Kabuli_Chr04	25975391	AA	CC	CC	NON_SYNONYMOUS_CODING	101497527	Unknown function
SNP_23941_A_25975479	NC_021163.1	Ca_Kabuli_Chr04	25975479	AA	GG	GG	SYNONYMOUS_CODING	101497527	Unknown function
SNP_23942_A_25975550	NC_021163.1	Ca_Kabuli_Chr04	25975550	GG	TT	TT	URR	101497527	Unknown function
SNP_23943_A_25975582	NC_021163.1	Ca_Kabuli_Chr04	25975582	CC	TT	TT	URR	101497527	Unknown function
SNP_23944_A_25975601	NC_021163.1	Ca_Kabuli_Chr04	25975601	TT	CC	CC	URR	101497527	Unknown function
SNP_23945_A_25975611	NC_021163.1	Ca_Kabuli_Chr04	25975611	GG	CC	CC	URR	101497527	Unknown function
SNP_23946_A_25975653	NC_021163.1	Ca_Kabuli_Chr04	25975653	GG	AA	AA	URR	101497527	Unknown function
SNP_23947_A_25975661	NC_021163.1	Ca_Kabuli_Chr04	25975661	AA	GG	GG	URR	101497527	Unknown function
SNP_23948_A_25976561	NC_021163.1	Ca_Kabuli_Chr04	25976561	CC	AA	AA	URR	101497527	Unknown function
SNP_23949_A_25976666	NC_021163.1	Ca_Kabuli_Chr04	25976666	CC	AA	AA	URR	101497527	Unknown function
SNP_23950_A_25976704	NC_021163.1	Ca_Kabuli_Chr04	25976704	CC	TT	TT	URR	101497527	Unknown function
SNP_23951_A_25976744	NC_021163.1	Ca_Kabuli_Chr04	25976744	AA	GG	GG	URR	101497527	Unknown function
SNP_23952_A_25976755	NC_021163.1	Ca_Kabuli_Chr04	25976755	TT	AA	AA	URR	101497527	Unknown function
SNP_23953_A_25976767	NC_021163.1	Ca_Kabuli_Chr04	25976767	GG	AA	AA	URR	101497527	Unknown function
SNP_23954_A_25976769	NC_021163.1	Ca_Kabuli_Chr04	25976769	GG	TT	TT	URR	101497527	Unknown function
SNP_23955_A_25976885	NC_021163.1	Ca_Kabuli_Chr04	25976885	CC	TT	TT	URR	101497527	Unknown function
SNP_23956_A_25976980	NC_021163.1	Ca_Kabuli_Chr04	25976980	TT	CC	CC	URR	101497527	Unknown function
SNP_23957_A_25977012	NC_021163.1	Ca_Kabuli_Chr04	25977012	AA	GG	GG	URR	101497527	Unknown function
SNP_23958_A_25977122	NC_021163.1	Ca_Kabuli_Chr04	25977122	TT	AA	AA	URR	101497527	Unknown function
SNP_23959_A_25977137	NC_021163.1	Ca_Kabuli_Chr04	25977137	GG	AA	AA	URR	101497527	Unknown function
SNP_23960_A_25977322	NC_021163.1	Ca_Kabuli_Chr04	25977322	TT	GG	GG	URR	101497527	Unknown function
SNP_23961_A_25977345	NC_021163.1	Ca_Kabuli_Chr04	25977345	TT	CC	CC	URR	101497527	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_23962_A_25977508	NC_021163.1	Ca_Kabuli_Chr04	25977508	TT	CC	CC	URR	101497527	Unknown function
SNP_23963_A_25977545	NC_021163.1	Ca_Kabuli_Chr04	25977545	GG	TT	TT	INTERGENIC		
SNP_23964_A_25977758	NC_021163.1	Ca_Kabuli_Chr04	25977758	TT	GG	GG	INTERGENIC		
SNP_23965_A_25977915	NC_021163.1	Ca_Kabuli_Chr04	25977915	GG	CC	CC	INTERGENIC		
SNP_23967_A_25978520	NC_021163.1	Ca_Kabuli_Chr04	25978520	TT	CC	CC	INTERGENIC		
SNP_23968_A_25978751	NC_021163.1	Ca_Kabuli_Chr04	25978751	TT	CC	CC	INTERGENIC		
SNP_23969_A_25979377	NC_021163.1	Ca_Kabuli_Chr04	25979377	GG	CC	CC	INTERGENIC		
SNP_23970_A_25979657	NC_021163.1	Ca_Kabuli_Chr04	25979657	AA	GG	GG	INTERGENIC		
SNP_23972_A_25980776	NC_021163.1	Ca_Kabuli_Chr04	25980776	AA	TT	TT	INTERGENIC		
SNP_23973_A_25980826	NC_021163.1	Ca_Kabuli_Chr04	25980826	AA	GG	GG	INTERGENIC		
SNP_23974_A_25980870	NC_021163.1	Ca_Kabuli_Chr04	25980870	TT	CC	CC	INTERGENIC		
SNP_23975_A_25980904	NC_021163.1	Ca_Kabuli_Chr04	25980904	AA	CC	CC	INTERGENIC		
SNP_23976_A_25980995	NC_021163.1	Ca_Kabuli_Chr04	25980995	GG	AA	AA	INTERGENIC		
SNP_23977_A_25981042	NC_021163.1	Ca_Kabuli_Chr04	25981042	GG	TT	TT	INTERGENIC		
SNP_23978_A_25981293	NC_021163.1	Ca_Kabuli_Chr04	25981293	AA	TT	TT	INTERGENIC		
SNP_23980_A_25981530	NC_021163.1	Ca_Kabuli_Chr04	25981530	CC	TT	TT	INTERGENIC		
SNP_23981_A_25981533	NC_021163.1	Ca_Kabuli_Chr04	25981533	GG	AA	AA	INTERGENIC		
SNP_23982_A_25981534	NC_021163.1	Ca_Kabuli_Chr04	25981534	GG	AA	AA	INTERGENIC		
SNP_23983_A_25981541	NC_021163.1	Ca_Kabuli_Chr04	25981541	AA	CC	CC	INTERGENIC		
SNP_23984_A_25981653	NC_021163.1	Ca_Kabuli_Chr04	25981653	AA	CC	CC	INTERGENIC		
SNP_23985_A_25981679	NC_021163.1	Ca_Kabuli_Chr04	25981679	GG	AA	AA	INTERGENIC		
SNP_23986_A_25981715	NC_021163.1	Ca_Kabuli_Chr04	25981715	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_23987_A_25981738	NC_021163.1	Ca_Kabuli_Chr04	25981738	AA	GG	GG	INTERGENIC			
SNP_23988_A_25981781	NC_021163.1	Ca_Kabuli_Chr04	25981781	TT	CC	CC	INTERGENIC			
SNP_23989_A_25981891	NC_021163.1	Ca_Kabuli_Chr04	25981891	GG	AA	AA	INTERGENIC			
SNP_23990_A_25981973	NC_021163.1	Ca_Kabuli_Chr04	25981973	AA	GG	GG	INTERGENIC			
SNP_23991_A_25981974	NC_021163.1	Ca_Kabuli_Chr04	25981974	TT	CC	CC	INTERGENIC			
SNP_23992_A_25982065	NC_021163.1	Ca_Kabuli_Chr04	25982065	GG	AA	AA	INTERGENIC			
SNP_23993_A_25982085	NC_021163.1	Ca_Kabuli_Chr04	25982085	CC	GG	GG	INTERGENIC			
SNP_23994_A_25982121	NC_021163.1	Ca_Kabuli_Chr04	25982121	AA	TT	TT	INTERGENIC			
SNP_23995_A_25982137	NC_021163.1	Ca_Kabuli_Chr04	25982137	TT	CC	CC	INTERGENIC			
SNP_23996_A_25982149	NC_021163.1	Ca_Kabuli_Chr04	25982149	CC	TT	TT	INTERGENIC			
SNP_23997_A_25982188	NC_021163.1	Ca_Kabuli_Chr04	25982188	CC	TT	TT	INTERGENIC			
SNP_23998_A_25982226	NC_021163.1	Ca_Kabuli_Chr04	25982226	CC	AA	AA	INTERGENIC			
SNP_23999_A_25982275	NC_021163.1	Ca_Kabuli_Chr04	25982275	GG	AA	AA	INTERGENIC			
SNP_24000_A_25982330	NC_021163.1	Ca_Kabuli_Chr04	25982330	AA	GG	GG	INTERGENIC			
SNP_24001_A_25982560	NC_021163.1	Ca_Kabuli_Chr04	25982560	TT	AA	AA	INTERGENIC			
SNP_24002_A_25982573	NC_021163.1	Ca_Kabuli_Chr04	25982573	CC	TT	TT	INTERGENIC			
SNP_24003_A_25982587	NC_021163.1	Ca_Kabuli_Chr04	25982587	GG	TT	TT	INTERGENIC			
SNP_24004_A_25982670	NC_021163.1	Ca_Kabuli_Chr04	25982670	AA	GG	GG	INTERGENIC			
SNP_24005_A_25982678	NC_021163.1	Ca_Kabuli_Chr04	25982678	CC	AA	AA	INTERGENIC			
SNP_24006_A_25982679	NC_021163.1	Ca_Kabuli_Chr04	25982679	AA	TT	TT	INTERGENIC			
SNP_24007_A_25982697	NC_021163.1	Ca_Kabuli_Chr04	25982697	AA	GG	GG	INTERGENIC			
SNP_24009_A_25982763	NC_021163.1	Ca_Kabuli_Chr04	25982763	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24010_A_25982767	NC_021163.1	Ca_Kabuli_Chr04	25982767	TT	AA	AA	INTERGENIC			
SNP_24011_A_25982774	NC_021163.1	Ca_Kabuli_Chr04	25982774	AA	TT	TT	INTERGENIC			
SNP_24012_A_25982797	NC_021163.1	Ca_Kabuli_Chr04	25982797	CC	GG	GG	INTERGENIC			
SNP_24013_A_25982943	NC_021163.1	Ca_Kabuli_Chr04	25982943	AA	CC	CC	INTERGENIC			
SNP_24014_A_25982960	NC_021163.1	Ca_Kabuli_Chr04	25982960	CC	TT	TT	INTERGENIC			
SNP_24015_A_25982968	NC_021163.1	Ca_Kabuli_Chr04	25982968	AA	GG	GG	INTERGENIC			
SNP_24016_A_25983036	NC_021163.1	Ca_Kabuli_Chr04	25983036	GG	AA	AA	INTERGENIC			
SNP_24017_A_25983040	NC_021163.1	Ca_Kabuli_Chr04	25983040	AA	GG	GG	INTERGENIC			
SNP_24018_A_25983045	NC_021163.1	Ca_Kabuli_Chr04	25983045	AA	CC	CC	INTERGENIC			
SNP_24019_A_25983110	NC_021163.1	Ca_Kabuli_Chr04	25983110	TT	AA	AA	INTERGENIC			
SNP_24020_A_25983139	NC_021163.1	Ca_Kabuli_Chr04	25983139	CC	TT	TT	INTERGENIC			
SNP_24021_A_25983206	NC_021163.1	Ca_Kabuli_Chr04	25983206	AA	TT	TT	INTERGENIC			
SNP_24022_A_25983311	NC_021163.1	Ca_Kabuli_Chr04	25983311	AA	GG	GG	INTERGENIC			
SNP_24023_A_25983366	NC_021163.1	Ca_Kabuli_Chr04	25983366	TT	CC	CC	INTERGENIC			
SNP_24024_A_25983525	NC_021163.1	Ca_Kabuli_Chr04	25983525	TT	GG	GG	INTERGENIC			
SNP_24025_A_25983541	NC_021163.1	Ca_Kabuli_Chr04	25983541	TT	GG	GG	INTERGENIC			
SNP_24026_A_25983567	NC_021163.1	Ca_Kabuli_Chr04	25983567	TT	GG	GG	INTERGENIC			
SNP_24027_A_25983581	NC_021163.1	Ca_Kabuli_Chr04	25983581	TT	GG	GG	INTERGENIC			
SNP_24028_A_25983691	NC_021163.1	Ca_Kabuli_Chr04	25983691	AA	GG	GG	INTERGENIC			
SNP_24029_A_25983776	NC_021163.1	Ca_Kabuli_Chr04	25983776	TT	GG	GG	INTERGENIC			
SNP_24030_A_25983787	NC_021163.1	Ca_Kabuli_Chr04	25983787	TT	AA	AA	INTERGENIC			
SNP_24031_A_25983788	NC_021163.1	Ca_Kabuli_Chr04	25983788	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24033_A_25983825	NC_021163.1	Ca_Kabuli_Chr04	25983825	CC	AA	AA	INTERGENIC			
SNP_24034_A_25983886	NC_021163.1	Ca_Kabuli_Chr04	25983886	AA	CC	CC	INTERGENIC			
SNP_24035_A_25983911	NC_021163.1	Ca_Kabuli_Chr04	25983911	GG	AA	AA	INTERGENIC			
SNP_24036_A_25983972	NC_021163.1	Ca_Kabuli_Chr04	25983972	CC	TT	TT	INTERGENIC			
SNP_24037_A_25983975	NC_021163.1	Ca_Kabuli_Chr04	25983975	CC	GG	GG	INTERGENIC			
SNP_24038_A_25983978	NC_021163.1	Ca_Kabuli_Chr04	25983978	GG	TT	TT	INTERGENIC			
SNP_24039_A_25983994	NC_021163.1	Ca_Kabuli_Chr04	25983994	CC	AA	AA	INTERGENIC			
SNP_24040_A_25984010	NC_021163.1	Ca_Kabuli_Chr04	25984010	AA	TT	TT	INTERGENIC			
SNP_24041_A_25984012	NC_021163.1	Ca_Kabuli_Chr04	25984012	GG	AA	AA	INTERGENIC			
SNP_24042_A_25984015	NC_021163.1	Ca_Kabuli_Chr04	25984015	CC	AA	AA	INTERGENIC			
SNP_24043_A_25984043	NC_021163.1	Ca_Kabuli_Chr04	25984043	TT	CC	CC	INTERGENIC			
SNP_24045_A_25984180	NC_021163.1	Ca_Kabuli_Chr04	25984180	TT	AA	AA	INTERGENIC			
SNP_24046_A_25984211	NC_021163.1	Ca_Kabuli_Chr04	25984211	TT	CC	CC	INTERGENIC			
SNP_24047_A_25984285	NC_021163.1	Ca_Kabuli_Chr04	25984285	TT	AA	AA	INTERGENIC			
SNP_24048_A_25984330	NC_021163.1	Ca_Kabuli_Chr04	25984330	GG	AA	AA	INTERGENIC			
SNP_24049_A_25984368	NC_021163.1	Ca_Kabuli_Chr04	25984368	GG	AA	AA	INTERGENIC			
SNP_24050_A_25984403	NC_021163.1	Ca_Kabuli_Chr04	25984403	CC	TT	TT	INTERGENIC			
SNP_24051_A_25984421	NC_021163.1	Ca_Kabuli_Chr04	25984421	AA	TT	TT	INTERGENIC			
SNP_24053_A_25984569	NC_021163.1	Ca_Kabuli_Chr04	25984569	TT	CC	CC	INTERGENIC			
SNP_24054_A_25984623	NC_021163.1	Ca_Kabuli_Chr04	25984623	AA	GG	GG	INTERGENIC			
SNP_24055_A_25984647	NC_021163.1	Ca_Kabuli_Chr04	25984647	AA	GG	GG	INTERGENIC			
SNP_24056_A_25984679	NC_021163.1	Ca_Kabuli_Chr04	25984679	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24057_A_25984680	NC_021163.1	Ca_Kabuli_Chr04	25984680	CC	TT	TT	INTERGENIC			
SNP_24058_A_25984785	NC_021163.1	Ca_Kabuli_Chr04	25984785	AA	CC	CC	INTERGENIC			
SNP_24059_A_25984799	NC_021163.1	Ca_Kabuli_Chr04	25984799	GG	AA	AA	INTERGENIC			
SNP_24060_A_25984857	NC_021163.1	Ca_Kabuli_Chr04	25984857	GG	AA	AA	INTERGENIC			
SNP_24061_A_25984933	NC_021163.1	Ca_Kabuli_Chr04	25984933	CC	GG	GG	INTERGENIC			
SNP_24062_A_25984965	NC_021163.1	Ca_Kabuli_Chr04	25984965	CC	TT	TT	INTERGENIC			
SNP_24063_A_25984985	NC_021163.1	Ca_Kabuli_Chr04	25984985	TT	CC	CC	INTERGENIC			
SNP_24064_A_25985017	NC_021163.1	Ca_Kabuli_Chr04	25985017	GG	AA	AA	INTERGENIC			
SNP_24065_A_25985095	NC_021163.1	Ca_Kabuli_Chr04	25985095	CC	TT	TT	INTERGENIC			
SNP_24066_A_25985099	NC_021163.1	Ca_Kabuli_Chr04	25985099	TT	GG	GG	INTERGENIC			
SNP_24067_A_25985120	NC_021163.1	Ca_Kabuli_Chr04	25985120	CC	AA	AA	INTERGENIC			
SNP_24068_A_25985217	NC_021163.1	Ca_Kabuli_Chr04	25985217	GG	AA	AA	INTERGENIC			
SNP_24069_A_25985231	NC_021163.1	Ca_Kabuli_Chr04	25985231	TT	CC	CC	INTERGENIC			
SNP_24070_A_25985243	NC_021163.1	Ca_Kabuli_Chr04	25985243	TT	CC	CC	INTERGENIC			
SNP_24071_A_25985801	NC_021163.1	Ca_Kabuli_Chr04	25985801	TT	CC	CC	INTERGENIC			
SNP_24072_A_25985951	NC_021163.1	Ca_Kabuli_Chr04	25985951	CC	TT	TT	INTERGENIC			
SNP_24073_A_25985982	NC_021163.1	Ca_Kabuli_Chr04	25985982	GG	AA	AA	INTERGENIC			
SNP_24074_A_25986031	NC_021163.1	Ca_Kabuli_Chr04	25986031	TT	CC	CC	INTERGENIC			
SNP_24075_A_25986063	NC_021163.1	Ca_Kabuli_Chr04	25986063	AA	CC	CC	INTERGENIC			
SNP_24076_A_25986093	NC_021163.1	Ca_Kabuli_Chr04	25986093	TT	AA	AA	INTERGENIC			
SNP_24077_A_25986124	NC_021163.1	Ca_Kabuli_Chr04	25986124	CC	AA	AA	INTERGENIC			
SNP_24078_A_25986382	NC_021163.1	Ca_Kabuli_Chr04	25986382	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24079_A_25986900	NC_021163.1	Ca_Kabuli_Chr04	25986900	TT	GG	GG	INTERGENIC			
SNP_24080_A_25986904	NC_021163.1	Ca_Kabuli_Chr04	25986904	GG	CC	CC	INTERGENIC			
SNP_24081_A_25986972	NC_021163.1	Ca_Kabuli_Chr04	25986972	CC	TT	TT	INTERGENIC			
SNP_24082_A_25987071	NC_021163.1	Ca_Kabuli_Chr04	25987071	CC	TT	TT	INTERGENIC			
SNP_24083_A_25987110	NC_021163.1	Ca_Kabuli_Chr04	25987110	CC	AA	AA	INTERGENIC			
SNP_24084_A_25987121	NC_021163.1	Ca_Kabuli_Chr04	25987121	GG	AA	AA	INTERGENIC			
SNP_24085_A_25987129	NC_021163.1	Ca_Kabuli_Chr04	25987129	AA	GG	GG	INTERGENIC			
SNP_24086_A_25987151	NC_021163.1	Ca_Kabuli_Chr04	25987151	TT	CC	CC	INTERGENIC			
SNP_24087_A_25987159	NC_021163.1	Ca_Kabuli_Chr04	25987159	AA	TT	TT	INTERGENIC			
SNP_24088_A_25987187	NC_021163.1	Ca_Kabuli_Chr04	25987187	TT	AA	AA	INTERGENIC			
SNP_24090_A_25987336	NC_021163.1	Ca_Kabuli_Chr04	25987336	CC	TT	TT	INTERGENIC			
SNP_24091_A_25987341	NC_021163.1	Ca_Kabuli_Chr04	25987341	GG	AA	AA	INTERGENIC			
SNP_24092_A_25987513	NC_021163.1	Ca_Kabuli_Chr04	25987513	TT	GG	GG	INTERGENIC			
SNP_24093_A_25987529	NC_021163.1	Ca_Kabuli_Chr04	25987529	GG	AA	AA	INTERGENIC			
SNP_24094_A_25987571	NC_021163.1	Ca_Kabuli_Chr04	25987571	GG	AA	AA	INTERGENIC			
SNP_24095_A_25987575	NC_021163.1	Ca_Kabuli_Chr04	25987575	AA	GG	GG	INTERGENIC			
SNP_24097_A_25987634	NC_021163.1	Ca_Kabuli_Chr04	25987634	TT	CC	CC	INTERGENIC			
SNP_24098_A_25987706	NC_021163.1	Ca_Kabuli_Chr04	25987706	AA	CC	CC	INTERGENIC			
SNP_24099_A_25987773	NC_021163.1	Ca_Kabuli_Chr04	25987773	GG	TT	TT	INTERGENIC			
SNP_24100_A_25987914	NC_021163.1	Ca_Kabuli_Chr04	25987914	CC	TT	TT	INTERGENIC			
SNP_24101_A_25987961	NC_021163.1	Ca_Kabuli_Chr04	25987961	TT	CC	CC	INTERGENIC			
SNP_24102_A_25988031	NC_021163.1	Ca_Kabuli_Chr04	25988031	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24103_A_25988033	NC_021163.1	Ca_Kabuli_Chr04	25988033	TT	AA	AA	INTERGENIC			
SNP_24104_A_25988554	NC_021163.1	Ca_Kabuli_Chr04	25988554	CC	GG	GG	INTERGENIC			
SNP_24105_A_25988615	NC_021163.1	Ca_Kabuli_Chr04	25988615	TT	CC	CC	INTERGENIC			
SNP_24106_A_25988858	NC_021163.1	Ca_Kabuli_Chr04	25988858	GG	AA	AA	INTERGENIC			
SNP_24107_A_25988872	NC_021163.1	Ca_Kabuli_Chr04	25988872	TT	GG	GG	INTERGENIC			
SNP_24108_A_25988901	NC_021163.1	Ca_Kabuli_Chr04	25988901	CC	GG	GG	INTERGENIC			
SNP_24109_A_25988944	NC_021163.1	Ca_Kabuli_Chr04	25988944	TT	GG	GG	INTERGENIC			
SNP_24111_A_25989057	NC_021163.1	Ca_Kabuli_Chr04	25989057	CC	TT	TT	INTERGENIC			
SNP_24112_A_25989121	NC_021163.1	Ca_Kabuli_Chr04	25989121	TT	CC	CC	INTERGENIC			
SNP_24113_A_25989226	NC_021163.1	Ca_Kabuli_Chr04	25989226	CC	TT	TT	INTERGENIC			
SNP_24114_A_25989271	NC_021163.1	Ca_Kabuli_Chr04	25989271	CC	TT	TT	INTERGENIC			
SNP_24117_A_25989354	NC_021163.1	Ca_Kabuli_Chr04	25989354	GG	TT	TT	INTERGENIC			
SNP_24118_A_25989461	NC_021163.1	Ca_Kabuli_Chr04	25989461	TT	CC	CC	INTERGENIC			
SNP_24119_A_25989518	NC_021163.1	Ca_Kabuli_Chr04	25989518	AA	CC	CC	INTERGENIC			
SNP_24120_A_25989602	NC_021163.1	Ca_Kabuli_Chr04	25989602	CC	TT	TT	INTERGENIC			
SNP_24121_A_25989657	NC_021163.1	Ca_Kabuli_Chr04	25989657	AA	GG	GG	INTERGENIC			
SNP_24122_A_25989665	NC_021163.1	Ca_Kabuli_Chr04	25989665	TT	AA	AA	INTERGENIC			
SNP_24123_A_25989731	NC_021163.1	Ca_Kabuli_Chr04	25989731	TT	GG	GG	INTERGENIC			
SNP_24124_A_25989797	NC_021163.1	Ca_Kabuli_Chr04	25989797	AA	CC	CC	INTERGENIC			
SNP_24125_A_25989814	NC_021163.1	Ca_Kabuli_Chr04	25989814	TT	CC	CC	INTERGENIC			
SNP_24126_A_25989998	NC_021163.1	Ca_Kabuli_Chr04	25989998	GG	AA	AA	INTERGENIC			
SNP_24127_A_25990052	NC_021163.1	Ca_Kabuli_Chr04	25990052	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24128_A_25990055	NC_021163.1	Ca_Kabuli_Chr04	25990055	TT	CC	CC	INTERGENIC			
SNP_24129_A_25990107	NC_021163.1	Ca_Kabuli_Chr04	25990107	AA	GG	GG	INTERGENIC			
SNP_24130_A_25990110	NC_021163.1	Ca_Kabuli_Chr04	25990110	AA	TT	TT	INTERGENIC			
SNP_24131_A_25990140	NC_021163.1	Ca_Kabuli_Chr04	25990140	AA	GG	GG	INTERGENIC			
SNP_24132_A_25990218	NC_021163.1	Ca_Kabuli_Chr04	25990218	TT	AA	AA	INTERGENIC			
SNP_24133_A_25990259	NC_021163.1	Ca_Kabuli_Chr04	25990259	AA	GG	GG	INTERGENIC			
SNP_24134_A_25990277	NC_021163.1	Ca_Kabuli_Chr04	25990277	TT	GG	GG	INTERGENIC			
SNP_24135_A_25990343	NC_021163.1	Ca_Kabuli_Chr04	25990343	CC	TT	TT	INTERGENIC			
SNP_24136_A_25990353	NC_021163.1	Ca_Kabuli_Chr04	25990353	TT	CC	CC	INTERGENIC			
SNP_24137_A_25990401	NC_021163.1	Ca_Kabuli_Chr04	25990401	AA	TT	TT	INTERGENIC			
SNP_24138_A_25990450	NC_021163.1	Ca_Kabuli_Chr04	25990450	GG	AA	AA	INTERGENIC			
SNP_24139_A_25990556	NC_021163.1	Ca_Kabuli_Chr04	25990556	CC	TT	TT	INTERGENIC			
SNP_24140_A_25990592	NC_021163.1	Ca_Kabuli_Chr04	25990592	AA	GG	GG	INTERGENIC			
SNP_24141_A_25990720	NC_021163.1	Ca_Kabuli_Chr04	25990720	AA	GG	GG	INTERGENIC			
SNP_24142_A_25990816	NC_021163.1	Ca_Kabuli_Chr04	25990816	CC	GG	GG	INTERGENIC			
SNP_24143_A_25990827	NC_021163.1	Ca_Kabuli_Chr04	25990827	GG	CC	CC	INTERGENIC			
SNP_24144_A_25990857	NC_021163.1	Ca_Kabuli_Chr04	25990857	TT	CC	CC	INTERGENIC			
SNP_24146_A_25990929	NC_021163.1	Ca_Kabuli_Chr04	25990929	CC	TT	TT	INTERGENIC			
SNP_24147_A_25990939	NC_021163.1	Ca_Kabuli_Chr04	25990939	CC	TT	TT	INTERGENIC			
SNP_24148_A_25991026	NC_021163.1	Ca_Kabuli_Chr04	25991026	AA	GG	GG	INTERGENIC			
SNP_24149_A_25991056	NC_021163.1	Ca_Kabuli_Chr04	25991056	GG	TT	TT	INTERGENIC			
SNP_24150_A_25991368	NC_021163.1	Ca_Kabuli_Chr04	25991368	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24151_A_25992593	NC_021163.1	Ca_Kabuli_Chr04	25992593	AA	GG	GG	INTERGENIC			
SNP_24152_A_25993284	NC_021163.1	Ca_Kabuli_Chr04	25993284	CC	TT	TT	INTERGENIC			
SNP_24153_A_25993293	NC_021163.1	Ca_Kabuli_Chr04	25993293	GG	AA	AA	INTERGENIC			
SNP_24154_A_25994152	NC_021163.1	Ca_Kabuli_Chr04	25994152	GG	TT	TT	INTERGENIC			
SNP_24155_A_25994157	NC_021163.1	Ca_Kabuli_Chr04	25994157	GG	AA	AA	INTERGENIC			
SNP_24156_A_25994177	NC_021163.1	Ca_Kabuli_Chr04	25994177	GG	AA	AA	INTERGENIC			
SNP_24157_A_25994294	NC_021163.1	Ca_Kabuli_Chr04	25994294	GG	AA	AA	INTERGENIC			
SNP_24158_A_25994341	NC_021163.1	Ca_Kabuli_Chr04	25994341	GG	AA	AA	INTERGENIC			
SNP_24160_A_25994468	NC_021163.1	Ca_Kabuli_Chr04	25994468	GG	CC	CC	INTERGENIC			
SNP_24161_A_25994645	NC_021163.1	Ca_Kabuli_Chr04	25994645	TT	CC	CC	INTERGENIC			
SNP_24162_A_25994652	NC_021163.1	Ca_Kabuli_Chr04	25994652	CC	TT	TT	INTERGENIC			
SNP_24163_A_25994686	NC_021163.1	Ca_Kabuli_Chr04	25994686	TT	CC	CC	INTERGENIC			
SNP_24165_A_25994789	NC_021163.1	Ca_Kabuli_Chr04	25994789	AA	GG	GG	INTERGENIC			
SNP_24166_A_25994977	NC_021163.1	Ca_Kabuli_Chr04	25994977	GG	CC	CC	INTERGENIC			
SNP_24167_A_25995054	NC_021163.1	Ca_Kabuli_Chr04	25995054	TT	AA	AA	INTERGENIC			
SNP_24169_A_25995103	NC_021163.1	Ca_Kabuli_Chr04	25995103	CC	TT	TT	INTERGENIC			
SNP_24170_A_25995147	NC_021163.1	Ca_Kabuli_Chr04	25995147	CC	AA	AA	INTERGENIC			
SNP_24171_A_25995170	NC_021163.1	Ca_Kabuli_Chr04	25995170	GG	AA	AA	INTERGENIC			
SNP_24172_A_25995223	NC_021163.1	Ca_Kabuli_Chr04	25995223	TT	AA	AA	INTERGENIC			
SNP_24173_A_25995346	NC_021163.1	Ca_Kabuli_Chr04	25995346	CC	AA	AA	INTERGENIC			
SNP_24174_A_25995350	NC_021163.1	Ca_Kabuli_Chr04	25995350	AA	GG	GG	INTERGENIC			
SNP_24175_A_25995354	NC_021163.1	Ca_Kabuli_Chr04	25995354	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24176_A_25995406	NC_021163.1	Ca_Kabuli_Chr04	25995406	TT	CC	CC	INTERGENIC		
SNP_24177_A_25995425	NC_021163.1	Ca_Kabuli_Chr04	25995425	GG	TT	TT	INTERGENIC		
SNP_24178_A_25995499	NC_021163.1	Ca_Kabuli_Chr04	25995499	AA	GG	GG	INTERGENIC		
SNP_24179_A_25995536	NC_021163.1	Ca_Kabuli_Chr04	25995536	CC	TT	TT	INTERGENIC		
SNP_24180_A_25995563	NC_021163.1	Ca_Kabuli_Chr04	25995563	TT	CC	CC	INTERGENIC		
SNP_24181_A_25995694	NC_021163.1	Ca_Kabuli_Chr04	25995694	TT	GG	GG	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24182_A_25995698	NC_021163.1	Ca_Kabuli_Chr04	25995698	GG	AA	AA	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24183_A_25995728	NC_021163.1	Ca_Kabuli_Chr04	25995728	AA	GG	GG	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24184_A_25995781	NC_021163.1	Ca_Kabuli_Chr04	25995781	CC	TT	TT	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24186_A_25995881	NC_021163.1	Ca_Kabuli_Chr04	25995881	TT	CC	CC	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24187_A_25995895	NC_021163.1	Ca_Kabuli_Chr04	25995895	AA	CC	CC	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24188_A_25995908	NC_021163.1	Ca_Kabuli_Chr04	25995908	AA	GG	GG	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24189_A_25995926	NC_021163.1	Ca_Kabuli_Chr04	25995926	CC	AA	AA	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24191_A_25995997	NC_021163.1	Ca_Kabuli_Chr04	25995997	AA	TT	TT	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24192_A_25996071	NC_021163.1	Ca_Kabuli_Chr04	25996071	CC	GG	GG	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24194_A_25996292	NC_021163.1	Ca_Kabuli_Chr04	25996292	AA	GG	GG	DRR	101497859	putative B3 domain-containing protein At1g78640
SNP_24196_A_26000053	NC_021163.1	Ca_Kabuli_Chr04	26000053	AA	TT	TT	INTERGENIC		
SNP_24197_A_26001294	NC_021163.1	Ca_Kabuli_Chr04	26001294	TT	GG	GG	INTERGENIC		
SNP_24198_A_26001571	NC_021163.1	Ca_Kabuli_Chr04	26001571	CC	TT	TT	INTERGENIC		
SNP_24199_A_26001783	NC_021163.1	Ca_Kabuli_Chr04	26001783	TT	GG	GG	INTERGENIC		
SNP_24202_A_26017550	NC_021163.1	Ca_Kabuli_Chr04	26017550	CC	TT	TT	INTERGENIC		
SNP_24203_A_26017985	NC_021163.1	Ca_Kabuli_Chr04	26017985	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24204_A_26019082	NC_021163.1	Ca_Kabuli_Chr04	26019082	AA	GG	GG	INTERGENIC			
SNP_24205_A_26020022	NC_021163.1	Ca_Kabuli_Chr04	26020022	CC	TT	TT	INTERGENIC			
SNP_24206_A_26023493	NC_021163.1	Ca_Kabuli_Chr04	26023493	AA	TT	TT	INTERGENIC			
SNP_24207_A_26023515	NC_021163.1	Ca_Kabuli_Chr04	26023515	TT	GG	GG	INTERGENIC			
SNP_24208_A_26029372	NC_021163.1	Ca_Kabuli_Chr04	26029372	TT	CC	CC	INTERGENIC			
SNP_24209_A_26030553	NC_021163.1	Ca_Kabuli_Chr04	26030553	GG	AA	AA	INTERGENIC			
SNP_24210_A_26030578	NC_021163.1	Ca_Kabuli_Chr04	26030578	AA	CC	CC	INTERGENIC			
SNP_24211_A_26030895	NC_021163.1	Ca_Kabuli_Chr04	26030895	CC	AA	AA	INTERGENIC			
SNP_24212_A_26030896	NC_021163.1	Ca_Kabuli_Chr04	26030896	AA	CC	CC	INTERGENIC			
SNP_24213_A_26030970	NC_021163.1	Ca_Kabuli_Chr04	26030970	TT	CC	CC	INTERGENIC			
SNP_24214_A_26030974	NC_021163.1	Ca_Kabuli_Chr04	26030974	TT	AA	AA	INTERGENIC			
SNP_24215_A_26055037	NC_021163.1	Ca_Kabuli_Chr04	26055037	AA	GG	GG	INTERGENIC			
SNP_24216_A_26056019	NC_021163.1	Ca_Kabuli_Chr04	26056019	GG	AA	AA	INTERGENIC			
SNP_24219_A_26067565	NC_021163.1	Ca_Kabuli_Chr04	26067565	TT	AA	AA	INTERGENIC			
SNP_24220_A_26072129	NC_021163.1	Ca_Kabuli_Chr04	26072129	AA	CC	CC	INTERGENIC			
SNP_24221_A_26076223	NC_021163.1	Ca_Kabuli_Chr04	26076223	TT	CC	CC	INTERGENIC			
SNP_24222_A_26082279	NC_021163.1	Ca_Kabuli_Chr04	26082279	GG	AA	AA	URR	101498173	Unknown function	
SNP_24223_A_26089526	NC_021163.1	Ca_Kabuli_Chr04	26089526	AA	TT	TT	INTERGENIC			
SNP_24224_A_26089529	NC_021163.1	Ca_Kabuli_Chr04	26089529	GG	AA	AA	INTERGENIC			
SNP_24225_A_26090483	NC_021163.1	Ca_Kabuli_Chr04	26090483	AA	GG	GG	INTERGENIC			
SNP_24226_A_26091371	NC_021163.1	Ca_Kabuli_Chr04	26091371	CC	AA	AA	INTERGENIC			
SNP_24227_A_26099276	NC_021163.1	Ca_Kabuli_Chr04	26099276	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24228_A_26100751	NC_021163.1	Ca_Kabuli_Chr04	26100751	AA	GG	GG	INTERGENIC			
SNP_24229_A_26103788	NC_021163.1	Ca_Kabuli_Chr04	26103788	CC	TT	TT	INTERGENIC			
SNP_24230_A_26108817	NC_021163.1	Ca_Kabuli_Chr04	26108817	TT	GG	GG	INTERGENIC			
SNP_24231_A_26109221	NC_021163.1	Ca_Kabuli_Chr04	26109221	CC	TT	TT	INTERGENIC			
SNP_24232_A_26110270	NC_021163.1	Ca_Kabuli_Chr04	26110270	TT	CC	CC	INTERGENIC			
SNP_24234_A_26116751	NC_021163.1	Ca_Kabuli_Chr04	26116751	CC	TT	TT	INTERGENIC			
SNP_24235_A_26116756	NC_021163.1	Ca_Kabuli_Chr04	26116756	GG	CC	CC	INTERGENIC			
SNP_24236_A_26117103	NC_021163.1	Ca_Kabuli_Chr04	26117103	GG	AA	AA	INTERGENIC			
SNP_24238_A_26128269	NC_021163.1	Ca_Kabuli_Chr04	26128269	CC	TT	TT	INTERGENIC			
SNP_24239_A_26129240	NC_021163.1	Ca_Kabuli_Chr04	26129240	GG	AA	AA	INTERGENIC			
SNP_24240_A_26144568	NC_021163.1	Ca_Kabuli_Chr04	26144568	AA	GG	GG	INTERGENIC			
SNP_24241_A_26152926	NC_021163.1	Ca_Kabuli_Chr04	26152926	CC	TT	TT	INTERGENIC			
SNP_24242_A_26153015	NC_021163.1	Ca_Kabuli_Chr04	26153015	CC	TT	TT	INTERGENIC			
SNP_24243_A_26154987	NC_021163.1	Ca_Kabuli_Chr04	26154987	TT	CC	CC	INTERGENIC			
SNP_24244_A_26155899	NC_021163.1	Ca_Kabuli_Chr04	26155899	AA	GG	GG	INTERGENIC			
SNP_24245_A_26161206	NC_021163.1	Ca_Kabuli_Chr04	26161206	GG	AA	AA	INTERGENIC			
SNP_24246_A_26166194	NC_021163.1	Ca_Kabuli_Chr04	26166194	GG	AA	AA	DRR	101515337	probable pectate lyase 1	
SNP_24247_A_26168504	NC_021163.1	Ca_Kabuli_Chr04	26168504	AA	GG	GG	INTRON	101515337	probable pectate lyase 1	
SNP_24248_A_26169224	NC_021163.1	Ca_Kabuli_Chr04	26169224	GG	CC	CC	INTRON	101515337	probable pectate lyase 1	
SNP_24249_A_26174176	NC_021163.1	Ca_Kabuli_Chr04	26174176	AA	GG	GG	URR	101515337	probable pectate lyase 1	
SNP_24250_A_26174393	NC_021163.1	Ca_Kabuli_Chr04	26174393	GG	TT	TT	URR	101515337	probable pectate lyase 1	
SNP_24251_A_26175625	NC_021163.1	Ca_Kabuli_Chr04	26175625	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24253_A_26178746	NC_021163.1	Ca_Kabuli_Chr04	26178746	GG	AA	AA	INTERGENIC		
SNP_24254_A_26179569	NC_021163.1	Ca_Kabuli_Chr04	26179569	AA	GG	GG	INTERGENIC		
SNP_24255_A_26185087	NC_021163.1	Ca_Kabuli_Chr04	26185087	AA	GG	GG	INTERGENIC		
SNP_24256_A_26186895	NC_021163.1	Ca_Kabuli_Chr04	26186895	AA	CC	CC	INTERGENIC		
SNP_24257_A_26188185	NC_021163.1	Ca_Kabuli_Chr04	26188185	AA	GG	GG	INTERGENIC		
SNP_24258_A_26189629	NC_021163.1	Ca_Kabuli_Chr04	26189629	TT	CC	CC	INTERGENIC		
SNP_24259_A_26191345	NC_021163.1	Ca_Kabuli_Chr04	26191345	CC	AA	AA	INTERGENIC		
SNP_24260_A_26191350	NC_021163.1	Ca_Kabuli_Chr04	26191350	AA	CC	CC	INTERGENIC		
SNP_24261_A_26195852	NC_021163.1	Ca_Kabuli_Chr04	26195852	AA	CC	CC	INTERGENIC		
SNP_24262_A_26197668	NC_021163.1	Ca_Kabuli_Chr04	26197668	AA	TT	TT	INTERGENIC		
SNP_24263_A_26198486	NC_021163.1	Ca_Kabuli_Chr04	26198486	CC	AA	AA	INTERGENIC		
SNP_24264_A_26198489	NC_021163.1	Ca_Kabuli_Chr04	26198489	AA	GG	GG	INTERGENIC		
SNP_24265_A_26198986	NC_021163.1	Ca_Kabuli_Chr04	26198986	AA	CC	CC	INTERGENIC		
SNP_24266_A_26201483	NC_021163.1	Ca_Kabuli_Chr04	26201483	GG	TT	TT	INTERGENIC		
SNP_24268_A_26207056	NC_021163.1	Ca_Kabuli_Chr04	26207056	GG	AA	AA	INTERGENIC		
SNP_24269_A_26207433	NC_021163.1	Ca_Kabuli_Chr04	26207433	AA	CC	CC	INTERGENIC		
SNP_24270_A_26207573	NC_021163.1	Ca_Kabuli_Chr04	26207573	TT	CC	CC	INTERGENIC		
SNP_24271_A_26207802	NC_021163.1	Ca_Kabuli_Chr04	26207802	CC	GG	GG	INTERGENIC		
SNP_24272_A_26219102	NC_021163.1	Ca_Kabuli_Chr04	26219102	AA	TT	TT	INTRON	101515663	inosine triphosphate pyrophosphatase
SNP_24273_A_26235011	NC_021163.1	Ca_Kabuli_Chr04	26235011	CC	TT	TT	URR	101515663	inosine triphosphate pyrophosphatase
SNP_24274_A_26236527	NC_021163.1	Ca_Kabuli_Chr04	26236527	TT	CC	CC	INTERGENIC		
SNP_24276_A_26239324	NC_021163.1	Ca_Kabuli_Chr04	26239324	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24277_A_26243097	NC_021163.1	Ca_Kabuli_Chr04	26243097	GG	CC	CC	INTERGENIC			
SNP_24278_A_26244281	NC_021163.1	Ca_Kabuli_Chr04	26244281	AA	GG	GG	INTERGENIC			
SNP_24279_A_26245393	NC_021163.1	Ca_Kabuli_Chr04	26245393	TT	CC	CC	INTERGENIC			
SNP_24280_A_26248981	NC_021163.1	Ca_Kabuli_Chr04	26248981	TT	CC	CC	INTERGENIC			
SNP_24283_A_26252036	NC_021163.1	Ca_Kabuli_Chr04	26252036	AA	CC	CC	INTERGENIC			
SNP_24284_A_26262745	NC_021163.1	Ca_Kabuli_Chr04	26262745	AA	GG	GG	INTERGENIC			
SNP_24285_A_26262780	NC_021163.1	Ca_Kabuli_Chr04	26262780	GG	TT	TT	INTERGENIC			
SNP_24286_A_26263313	NC_021163.1	Ca_Kabuli_Chr04	26263313	AA	GG	GG	INTERGENIC			
SNP_24287_A_26263444	NC_021163.1	Ca_Kabuli_Chr04	26263444	TT	CC	CC	INTERGENIC			
SNP_24288_A_26263447	NC_021163.1	Ca_Kabuli_Chr04	26263447	TT	CC	CC	INTERGENIC			
SNP_24289_A_26263528	NC_021163.1	Ca_Kabuli_Chr04	26263528	TT	CC	CC	INTERGENIC			
SNP_24290_A_26263560	NC_021163.1	Ca_Kabuli_Chr04	26263560	AA	GG	GG	INTERGENIC			
SNP_24291_A_26263910	NC_021163.1	Ca_Kabuli_Chr04	26263910	GG	AA	AA	INTERGENIC			
SNP_24292_A_26263986	NC_021163.1	Ca_Kabuli_Chr04	26263986	CC	TT	TT	INTERGENIC			
SNP_24293_A_26264183	NC_021163.1	Ca_Kabuli_Chr04	26264183	GG	AA	AA	INTERGENIC			
SNP_24296_A_26295399	NC_021163.1	Ca_Kabuli_Chr04	26295399	TT	CC	CC	INTERGENIC			
SNP_24297_A_26295404	NC_021163.1	Ca_Kabuli_Chr04	26295404	CC	AA	AA	INTERGENIC			
SNP_24298_A_26300291	NC_021163.1	Ca_Kabuli_Chr04	26300291	GG	AA	AA	INTERGENIC			
SNP_24299_A_26300608	NC_021163.1	Ca_Kabuli_Chr04	26300608	GG	AA	AA	INTERGENIC			
SNP_24300_A_26306713	NC_021163.1	Ca_Kabuli_Chr04	26306713	AA	CC	CC	INTERGENIC			
SNP_24301_A_26307236	NC_021163.1	Ca_Kabuli_Chr04	26307236	CC	TT	TT	INTERGENIC			
SNP_24302_A_26307468	NC_021163.1	Ca_Kabuli_Chr04	26307468	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24303_A_26307508	NC_021163.1	Ca_Kabuli_Chr04	26307508	CC	TT	TT	INTERGENIC		
SNP_24305_A_26309695	NC_021163.1	Ca_Kabuli_Chr04	26309695	GG	AA	AA	INTERGENIC		
SNP_24306_A_26309992	NC_021163.1	Ca_Kabuli_Chr04	26309992	GG	TT	TT	INTERGENIC		
SNP_24308_A_26343072	NC_021163.1	Ca_Kabuli_Chr04	26343072	AA	TT	TT	INTRON	101500434	late embryogenesis abundant protein D-7
SNP_24309_A_26344180	NC_021163.1	Ca_Kabuli_Chr04	26344180	GG	AA	AA	DRR	101502015	uncharacterized LOC101502015
SNP_24310_A_26351243	NC_021163.1	Ca_Kabuli_Chr04	26351243	AA	GG	GG	INTRON	101502015	uncharacterized LOC101502015
SNP_24311_A_26352795	NC_021163.1	Ca_Kabuli_Chr04	26352795	TT	CC	CC	INTRON	101502015	uncharacterized LOC101502015
SNP_24312_A_26357126	NC_021163.1	Ca_Kabuli_Chr04	26357126	AA	TT	TT	INTERGENIC		
SNP_24313_A_26363529	NC_021163.1	Ca_Kabuli_Chr04	26363529	TT	GG	GG	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24315_A_26365936	NC_021163.1	Ca_Kabuli_Chr04	26365936	AA	CC	CC	UPSTREAM	Gene_ma13097	Unknown function
SNP_24316_A_26369504	NC_021163.1	Ca_Kabuli_Chr04	26369504	TT	CC	CC	INTERGENIC		
SNP_24318_A_26380167	NC_021163.1	Ca_Kabuli_Chr04	26380167	TT	CC	CC	INTERGENIC		
SNP_24319_A_26382032	NC_021163.1	Ca_Kabuli_Chr04	26382032	GG	AA	AA	INTERGENIC		
SNP_24321_A_26394392	NC_021163.1	Ca_Kabuli_Chr04	26394392	GG	TT	TT	INTERGENIC		
SNP_24322_A_26394593	NC_021163.1	Ca_Kabuli_Chr04	26394593	GG	AA	AA	INTERGENIC		
SNP_24323_A_26394651	NC_021163.1	Ca_Kabuli_Chr04	26394651	GG	TT	TT	INTERGENIC		
SNP_24325_A_26399327	NC_021163.1	Ca_Kabuli_Chr04	26399327	CC	TT	TT	INTERGENIC		
SNP_24326_A_26399559	NC_021163.1	Ca_Kabuli_Chr04	26399559	TT	CC	CC	INTERGENIC		
SNP_24327_A_26403324	NC_021163.1	Ca_Kabuli_Chr04	26403324	CC	AA	AA	INTERGENIC		
SNP_24328_A_26404680	NC_021163.1	Ca_Kabuli_Chr04	26404680	CC	TT	TT	INTERGENIC		
SNP_24329_A_26404809	NC_021163.1	Ca_Kabuli_Chr04	26404809	AA	GG	GG	INTERGENIC		
SNP_24330_A_26406188	NC_021163.1	Ca_Kabuli_Chr04	26406188	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24331_A_26409325	NC_021163.1	Ca_Kabuli_Chr04	26409325	GG	AA	AA	INTERGENIC		
SNP_24332_A_26409507	NC_021163.1	Ca_Kabuli_Chr04	26409507	AA	TT	TT	INTERGENIC		
SNP_24333_A_26410990	NC_021163.1	Ca_Kabuli_Chr04	26410990	TT	CC	CC	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24334_A_26411090	NC_021163.1	Ca_Kabuli_Chr04	26411090	AA	TT	TT	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24335_A_26411091	NC_021163.1	Ca_Kabuli_Chr04	26411091	GG	AA	AA	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24336_A_26411141	NC_021163.1	Ca_Kabuli_Chr04	26411141	AA	TT	TT	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24337_A_26411203	NC_021163.1	Ca_Kabuli_Chr04	26411203	TT	CC	CC	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24338_A_26411481	NC_021163.1	Ca_Kabuli_Chr04	26411481	TT	AA	AA	DRR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_24339_A_26415971	NC_021163.1	Ca_Kabuli_Chr04	26415971	GG	AA	AA	URR	101500748	thioredoxin-like protein YLS8
SNP_24340_A_26457150	NC_021163.1	Ca_Kabuli_Chr04	26457150	GG	TT	TT	INTERGENIC		
SNP_24341_A_26460774	NC_021163.1	Ca_Kabuli_Chr04	26460774	GG	AA	AA	INTERGENIC		
SNP_24342_A_26460791	NC_021163.1	Ca_Kabuli_Chr04	26460791	GG	AA	AA	INTERGENIC		
SNP_24343_A_26464689	NC_021163.1	Ca_Kabuli_Chr04	26464689	TT	CC	CC	INTERGENIC		
SNP_24344_A_26468021	NC_021163.1	Ca_Kabuli_Chr04	26468021	AA	CC	CC	INTERGENIC		
SNP_24345_A_26469196	NC_021163.1	Ca_Kabuli_Chr04	26469196	TT	CC	CC	INTERGENIC		
SNP_24346_A_26472418	NC_021163.1	Ca_Kabuli_Chr04	26472418	CC	TT	TT	INTERGENIC		
SNP_24347_A_26472540	NC_021163.1	Ca_Kabuli_Chr04	26472540	CC	TT	TT	INTERGENIC		
SNP_24348_A_26473644	NC_021163.1	Ca_Kabuli_Chr04	26473644	CC	TT	TT	INTERGENIC		
SNP_24349_A_26483830	NC_021163.1	Ca_Kabuli_Chr04	26483830	AA	TT	TT	INTRON	101504914	aspartic proteinase-like protein 2
SNP_24350_A_26487857	NC_021163.1	Ca_Kabuli_Chr04	26487857	GG	AA	AA	URR	101504914	aspartic proteinase-like protein 2
SNP_24351_A_26489973	NC_021163.1	Ca_Kabuli_Chr04	26489973	AA	TT	TT	INTERGENIC		
SNP_24352_A_26491033	NC_021163.1	Ca_Kabuli_Chr04	26491033	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24353_A_26492869	NC_021163.1	Ca_Kabuli_Chr04	26492869	CC	TT	TT	INTERGENIC		
SNP_24354_A_26494434	NC_021163.1	Ca_Kabuli_Chr04	26494434	CC	AA	AA	INTERGENIC		
SNP_24355_A_26494502	NC_021163.1	Ca_Kabuli_Chr04	26494502	GG	AA	AA	INTERGENIC		
SNP_24357_A_26496559	NC_021163.1	Ca_Kabuli_Chr04	26496559	GG	TT	TT	INTERGENIC		
SNP_24358_A_26500268	NC_021163.1	Ca_Kabuli_Chr04	26500268	AA	CC	CC	INTERGENIC		
SNP_24359_A_26502245	NC_021163.1	Ca_Kabuli_Chr04	26502245	AA	TT	TT	INTERGENIC		
SNP_24360_A_26502573	NC_021163.1	Ca_Kabuli_Chr04	26502573	CC	TT	TT	INTERGENIC		
SNP_24361_A_26509372	NC_021163.1	Ca_Kabuli_Chr04	26509372	TT	CC	CC	INTERGENIC		
SNP_24362_A_26509658	NC_021163.1	Ca_Kabuli_Chr04	26509658	CC	TT	TT	INTERGENIC		
SNP_24363_A_26510725	NC_021163.1	Ca_Kabuli_Chr04	26510725	GG	CC	CC	INTERGENIC		
SNP_24364_A_26517317	NC_021163.1	Ca_Kabuli_Chr04	26517317	AA	GG	GG	SYNONYMOUS_CODING	101503621	pentatricopeptide repeat-containing protein At2g32630
SNP_24365_A_26526641	NC_021163.1	Ca_Kabuli_Chr04	26526641	AA	GG	GG	INTERGENIC		
SNP_24367_A_26530375	NC_021163.1	Ca_Kabuli_Chr04	26530375	CC	TT	TT	INTRON	101503948	putative G3BP-like protein
SNP_24368_A_26532430	NC_021163.1	Ca_Kabuli_Chr04	26532430	CC	AA	AA	INTRON	101503948	putative G3BP-like protein
SNP_24369_A_26545855	NC_021163.1	Ca_Kabuli_Chr04	26545855	GG	AA	AA	URR	101505544	uncharacterized LOC101505544
SNP_24370_A_26556298	NC_021163.1	Ca_Kabuli_Chr04	26556298	TT	CC	CC	INTERGENIC		
SNP_24371_A_26556502	NC_021163.1	Ca_Kabuli_Chr04	26556502	AA	CC	CC	INTERGENIC		
SNP_24372_A_26556665	NC_021163.1	Ca_Kabuli_Chr04	26556665	TT	CC	CC	INTERGENIC		
SNP_24373_A_26591861	NC_021163.1	Ca_Kabuli_Chr04	26591861	TT	CC	CC	INTERGENIC		
SNP_24374_A_26592209	NC_021163.1	Ca_Kabuli_Chr04	26592209	TT	CC	CC	INTERGENIC		
SNP_24375_A_26597703	NC_021163.1	Ca_Kabuli_Chr04	26597703	AA	GG	GG	INTERGENIC		
SNP_24376_A_26604951	NC_021163.1	Ca_Kabuli_Chr04	26604951	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24377_A_26608249	NC_021163.1	Ca_Kabuli_Chr04	26608249	TT	CC	CC	INTERGENIC			
SNP_24378_A_26608275	NC_021163.1	Ca_Kabuli_Chr04	26608275	TT	CC	CC	INTERGENIC			
SNP_24379_A_26608421	NC_021163.1	Ca_Kabuli_Chr04	26608421	AA	GG	GG	INTERGENIC			
SNP_24380_A_26608501	NC_021163.1	Ca_Kabuli_Chr04	26608501	AA	CC	CC	INTERGENIC			
SNP_24381_A_26608595	NC_021163.1	Ca_Kabuli_Chr04	26608595	CC	AA	AA	DRR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24382_A_26608936	NC_021163.1	Ca_Kabuli_Chr04	26608936	GG	AA	AA	DRR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24383_A_26608958	NC_021163.1	Ca_Kabuli_Chr04	26608958	CC	GG	GG	DRR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24384_A_26609027	NC_021163.1	Ca_Kabuli_Chr04	26609027	TT	CC	CC	DRR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24385_A_26620417	NC_021163.1	Ca_Kabuli_Chr04	26620417	AA	GG	GG	URR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24387_A_26621999	NC_021163.1	Ca_Kabuli_Chr04	26621999	CC	TT	TT	URR	101504264	3-isopropylmalate dehydratase large subunit-like	
SNP_24389_A_26625423	NC_021163.1	Ca_Kabuli_Chr04	26625423	AA	GG	GG	INTERGENIC			
SNP_24390_A_26626777	NC_021163.1	Ca_Kabuli_Chr04	26626777	CC	GG	GG	INTERGENIC			
SNP_24391_A_26635066	NC_021163.1	Ca_Kabuli_Chr04	26635066	TT	CC	CC	INTRON	101504596	DNA mismatch repair protein MSH1, mitochondrial	
SNP_24392_A_26648237	NC_021163.1	Ca_Kabuli_Chr04	26648237	TT	GG	GG	INTRON	101504596	DNA mismatch repair protein MSH1, mitochondrial	
SNP_24394_A_26653928	NC_021163.1	Ca_Kabuli_Chr04	26653928	CC	TT	TT	INTERGENIC			
SNP_24395_A_26654756	NC_021163.1	Ca_Kabuli_Chr04	26654756	CC	TT	TT	INTERGENIC			
SNP_24396_A_26657010	NC_021163.1	Ca_Kabuli_Chr04	26657010	AA	GG	GG	INTERGENIC			
SNP_24397_A_26659042	NC_021163.1	Ca_Kabuli_Chr04	26659042	GG	AA	AA	INTERGENIC			
SNP_24398_A_26659776	NC_021163.1	Ca_Kabuli_Chr04	26659776	CC	TT	TT	INTERGENIC			
SNP_24399_A_26660409	NC_021163.1	Ca_Kabuli_Chr04	26660409	TT	AA	AA	INTERGENIC			
SNP_24401_A_26663049	NC_021163.1	Ca_Kabuli_Chr04	26663049	GG	AA	AA	INTERGENIC			
SNP_24402_A_26663678	NC_021163.1	Ca_Kabuli_Chr04	26663678	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24404_A_26670340	NC_021163.1	Ca_Kabuli_Chr04	26670340	CC	GG	GG	INTERGENIC			
SNP_24406_A_26673840	NC_021163.1	Ca_Kabuli_Chr04	26673840	GG	TT	TT	INTERGENIC			
SNP_24407_A_26684060	NC_021163.1	Ca_Kabuli_Chr04	26684060	GG	AA	AA	INTERGENIC			
SNP_24408_A_26728704	NC_021163.1	Ca_Kabuli_Chr04	26728704	GG	TT	TT	INTERGENIC			
SNP_24409_A_26730192	NC_021163.1	Ca_Kabuli_Chr04	26730192	GG	AA	AA	INTERGENIC			
SNP_24410_A_26745152	NC_021163.1	Ca_Kabuli_Chr04	26745152	GG	AA	AA	INTERGENIC			
SNP_24411_A_26745458	NC_021163.1	Ca_Kabuli_Chr04	26745458	CC	GG	GG	INTERGENIC			
SNP_24412_A_26745459	NC_021163.1	Ca_Kabuli_Chr04	26745459	AA	TT	TT	INTERGENIC			
SNP_24413_A_26746575	NC_021163.1	Ca_Kabuli_Chr04	26746575	TT	CC	CC	INTERGENIC			
SNP_24415_A_26750909	NC_021163.1	Ca_Kabuli_Chr04	26750909	GG	AA	AA	INTERGENIC			
SNP_24418_A_26753125	NC_021163.1	Ca_Kabuli_Chr04	26753125	TT	AA	AA	INTERGENIC			
SNP_24419_A_26753146	NC_021163.1	Ca_Kabuli_Chr04	26753146	GG	AA	AA	INTERGENIC			
SNP_24420_A_26761872	NC_021163.1	Ca_Kabuli_Chr04	26761872	AA	GG	GG	INTERGENIC			
SNP_24422_A_26763506	NC_021163.1	Ca_Kabuli_Chr04	26763506	TT	AA	AA	DRR	101507078	transcription factor MYB24-like	
SNP_24423_A_26765251	NC_021163.1	Ca_Kabuli_Chr04	26765251	AA	CC	CC	NON_SYNONYMOUS_CODING	101507078	transcription factor MYB24-like	
SNP_24425_A_26766108	NC_021163.1	Ca_Kabuli_Chr04	26766108	AA	GG	GG	URR	101507078	transcription factor MYB24-like	
SNP_24426_A_26777097	NC_021163.1	Ca_Kabuli_Chr04	26777097	TT	CC	CC	INTERGENIC			
SNP_24427_A_26777507	NC_021163.1	Ca_Kabuli_Chr04	26777507	CC	AA	AA	INTERGENIC			
SNP_24428_A_26781599	NC_021163.1	Ca_Kabuli_Chr04	26781599	CC	TT	TT	INTERGENIC			
SNP_24429_A_26785725	NC_021163.1	Ca_Kabuli_Chr04	26785725	TT	AA	AA	INTERGENIC			
SNP_24431_A_26790234	NC_021163.1	Ca_Kabuli_Chr04	26790234	TT	AA	AA	INTERGENIC			
SNP_24432_A_26794110	NC_021163.1	Ca_Kabuli_Chr04	26794110	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24433_A_26794395	NC_021163.1	Ca_Kabuli_Chr04	26794395	GG	AA	AA	INTERGENIC		
SNP_24434_A_26805605	NC_021163.1	Ca_Kabuli_Chr04	26805605	GG	AA	AA	INTERGENIC		
SNP_24435_A_26805821	NC_021163.1	Ca_Kabuli_Chr04	26805821	AA	GG	GG	INTERGENIC		
SNP_24436_A_26807953	NC_021163.1	Ca_Kabuli_Chr04	26807953	TT	GG	GG	DRR	101510921	uncharacterized LOC101510921
SNP_24437_A_26808107	NC_021163.1	Ca_Kabuli_Chr04	26808107	TT	CC	CC	DRR	101510921	uncharacterized LOC101510921
SNP_24438_A_26808224	NC_021163.1	Ca_Kabuli_Chr04	26808224	CC	TT	TT	DRR	101510921	uncharacterized LOC101510921
SNP_24439_A_26808230	NC_021163.1	Ca_Kabuli_Chr04	26808230	CC	AA	AA	DRR	101510921	uncharacterized LOC101510921
SNP_24440_A_26810599	NC_021163.1	Ca_Kabuli_Chr04	26810599	GG	TT	TT	INTRON	101510921	uncharacterized LOC101510921
SNP_24441_A_26810674	NC_021163.1	Ca_Kabuli_Chr04	26810674	AA	CC	CC	INTRON	101510921	uncharacterized LOC101510921
SNP_24442_A_26810680	NC_021163.1	Ca_Kabuli_Chr04	26810680	CC	TT	TT	INTRON	101510921	uncharacterized LOC101510921
SNP_24443_A_26810737	NC_021163.1	Ca_Kabuli_Chr04	26810737	CC	TT	TT	INTRON	101510921	uncharacterized LOC101510921
SNP_24444_A_26810749	NC_021163.1	Ca_Kabuli_Chr04	26810749	GG	AA	AA	INTRON	101510921	uncharacterized LOC101510921
SNP_24445_A_26810862	NC_021163.1	Ca_Kabuli_Chr04	26810862	CC	TT	TT	INTRON	101510921	uncharacterized LOC101510921
SNP_24447_A_26815871	NC_021163.1	Ca_Kabuli_Chr04	26815871	AA	TT	TT	INTERGENIC		
SNP_24448_A_26816346	NC_021163.1	Ca_Kabuli_Chr04	26816346	GG	TT	TT	INTERGENIC		
SNP_24449_A_26818366	NC_021163.1	Ca_Kabuli_Chr04	26818366	CC	TT	TT	INTERGENIC		
SNP_24450_A_26821666	NC_021163.1	Ca_Kabuli_Chr04	26821666	AA	TT	TT	DRR	101511233	Unknown function
SNP_24451_A_26821667	NC_021163.1	Ca_Kabuli_Chr04	26821667	CC	AA	AA	DRR	101511233	Unknown function
SNP_24452_A_26827993	NC_021163.1	Ca_Kabuli_Chr04	26827993	TT	AA	AA	INTERGENIC		
SNP_24453_A_26828921	NC_021163.1	Ca_Kabuli_Chr04	26828921	GG	AA	AA	INTERGENIC		
SNP_24454_A_26828931	NC_021163.1	Ca_Kabuli_Chr04	26828931	GG	CC	CC	INTERGENIC		
SNP_24455_A_26832621	NC_021163.1	Ca_Kabuli_Chr04	26832621	GG	AA	AA	DRR	101507400	ammonium transporter 1 member 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24456_A_26832906	NC_021163.1	Ca_Kabuli_Chr04	26832906	AA	TT	TT	DRR	101507400	ammonium transporter 1 member 1-like
SNP_24457_A_26838861	NC_021163.1	Ca_Kabuli_Chr04	26838861	CC	TT	TT	INTERGENIC		
SNP_24458_A_26840451	NC_021163.1	Ca_Kabuli_Chr04	26840451	AA	CC	CC	NON_SYNONYMOUS_CODING	101511556	uncharacterized LOC101511556
SNP_24459_A_26840850	NC_021163.1	Ca_Kabuli_Chr04	26840850	TT	CC	CC	INTRON	101511556	uncharacterized LOC101511556
SNP_24461_A_26846997	NC_021163.1	Ca_Kabuli_Chr04	26846997	CC	AA	AA	INTRON	101511556	uncharacterized LOC101511556
SNP_24462_A_26847013	NC_021163.1	Ca_Kabuli_Chr04	26847013	GG	AA	AA	INTRON	101511556	uncharacterized LOC101511556
SNP_24464_A_26847339	NC_021163.1	Ca_Kabuli_Chr04	26847339	AA	CC	CC	INTRON	101511556	uncharacterized LOC101511556
SNP_24465_A_26847401	NC_021163.1	Ca_Kabuli_Chr04	26847401	TT	CC	CC	INTRON	101511556	uncharacterized LOC101511556
SNP_24466_A_26847454	NC_021163.1	Ca_Kabuli_Chr04	26847454	AA	GG	GG	INTRON	101511556	uncharacterized LOC101511556
SNP_24467_A_26847461	NC_021163.1	Ca_Kabuli_Chr04	26847461	GG	TT	TT	INTRON	101511556	uncharacterized LOC101511556
SNP_24468_A_26847470	NC_021163.1	Ca_Kabuli_Chr04	26847470	TT	CC	CC	INTRON	101511556	uncharacterized LOC101511556
SNP_24470_A_26850227	NC_021163.1	Ca_Kabuli_Chr04	26850227	TT	CC	CC	INTRON	101511556	uncharacterized LOC101511556
SNP_24471_A_26857868	NC_021163.1	Ca_Kabuli_Chr04	26857868	CC	TT	TT	SYNONYMOUS_CODING	101511883	Unknown function
SNP_24472_A_26858372	NC_021163.1	Ca_Kabuli_Chr04	26858372	AA	GG	GG	SYNONYMOUS_CODING	101511883	Unknown function
SNP_24473_A_26863089	NC_021163.1	Ca_Kabuli_Chr04	26863089	TT	CC	CC	INTRON	101511883	Unknown function
SNP_24474_A_26866009	NC_021163.1	Ca_Kabuli_Chr04	26866009	AA	TT	TT	URR	101511883	Unknown function
SNP_24475_A_26866303	NC_021163.1	Ca_Kabuli_Chr04	26866303	AA	GG	GG	URR	101511883	Unknown function
SNP_24476_A_26866304	NC_021163.1	Ca_Kabuli_Chr04	26866304	GG	AA	AA	URR	101511883	Unknown function
SNP_24477_A_26867036	NC_021163.1	Ca_Kabuli_Chr04	26867036	TT	CC	CC	INTERGENIC		
SNP_24479_A_26895552	NC_021163.1	Ca_Kabuli_Chr04	26895552	AA	TT	TT	INTERGENIC		
SNP_24480_A_26895708	NC_021163.1	Ca_Kabuli_Chr04	26895708	CC	AA	AA	INTERGENIC		
SNP_24482_A_26902778	NC_021163.1	Ca_Kabuli_Chr04	26902778	TT	GG	GG	INTERGENIC		

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SNP_24483_A_26902794	NC_021163.1	Ca_Kabuli_Chr04	26902794	TT	CC	CC	INTERGENIC		
SNP_24484_A_26902814	NC_021163.1	Ca_Kabuli_Chr04	26902814	AA	CC	CC	INTERGENIC		
SNP_24485_A_26903017	NC_021163.1	Ca_Kabuli_Chr04	26903017	AA	GG	GG	INTERGENIC		
SNP_24486_A_26903072	NC_021163.1	Ca_Kabuli_Chr04	26903072	TT	CC	CC	INTERGENIC		
SNP_24487_A_26903245	NC_021163.1	Ca_Kabuli_Chr04	26903245	AA	GG	GG	INTERGENIC		
SNP_24489_A_26904549	NC_021163.1	Ca_Kabuli_Chr04	26904549	GG	AA	AA	INTERGENIC		
SNP_24491_A_26916177	NC_021163.1	Ca_Kabuli_Chr04	26916177	TT	CC	CC	INTRON	101508666	28 kDa ribonucleoprotein, chloroplastic
SNP_24492_A_26916471	NC_021163.1	Ca_Kabuli_Chr04	26916471	TT	CC	CC	INTRON	101508666	28 kDa ribonucleoprotein, chloroplastic
SNP_24493_A_26936463	NC_021163.1	Ca_Kabuli_Chr04	26936463	TT	CC	CC	INTERGENIC		
SNP_24494_A_26936524	NC_021163.1	Ca_Kabuli_Chr04	26936524	CC	TT	TT	INTERGENIC		
SNP_24495_A_26936771	NC_021163.1	Ca_Kabuli_Chr04	26936771	GG	AA	AA	INTERGENIC		
SNP_24496_A_26936787	NC_021163.1	Ca_Kabuli_Chr04	26936787	TT	GG	GG	INTERGENIC		
SNP_24497_A_26936921	NC_021163.1	Ca_Kabuli_Chr04	26936921	AA	GG	GG	INTERGENIC		
SNP_24498_A_26936939	NC_021163.1	Ca_Kabuli_Chr04	26936939	AA	GG	GG	INTERGENIC		
SNP_24499_A_26936951	NC_021163.1	Ca_Kabuli_Chr04	26936951	AA	GG	GG	INTERGENIC		
SNP_24500_A_26936954	NC_021163.1	Ca_Kabuli_Chr04	26936954	TT	AA	AA	INTERGENIC		
SNP_24501_A_26936964	NC_021163.1	Ca_Kabuli_Chr04	26936964	TT	AA	AA	INTERGENIC		
SNP_24502_A_26937009	NC_021163.1	Ca_Kabuli_Chr04	26937009	GG	AA	AA	INTERGENIC		
SNP_24503_A_26937019	NC_021163.1	Ca_Kabuli_Chr04	26937019	TT	AA	AA	INTERGENIC		
SNP_24504_A_26937041	NC_021163.1	Ca_Kabuli_Chr04	26937041	AA	CC	CC	INTERGENIC		
SNP_24505_A_26937045	NC_021163.1	Ca_Kabuli_Chr04	26937045	CC	TT	TT	INTERGENIC		
SNP_24506_A_26937046	NC_021163.1	Ca_Kabuli_Chr04	26937046	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24507_A_26937054	NC_021163.1	Ca_Kabuli_Chr04	26937054	GG	AA	AA	INTERGENIC			
SNP_24508_A_26937056	NC_021163.1	Ca_Kabuli_Chr04	26937056	GG	AA	AA	INTERGENIC			
SNP_24509_A_26937074	NC_021163.1	Ca_Kabuli_Chr04	26937074	CC	TT	TT	INTERGENIC			
SNP_24510_A_26937078	NC_021163.1	Ca_Kabuli_Chr04	26937078	AA	GG	GG	INTERGENIC			
SNP_24511_A_26937133	NC_021163.1	Ca_Kabuli_Chr04	26937133	GG	TT	TT	INTERGENIC			
SNP_24512_A_26937145	NC_021163.1	Ca_Kabuli_Chr04	26937145	AA	GG	GG	INTERGENIC			
SNP_24513_A_26937146	NC_021163.1	Ca_Kabuli_Chr04	26937146	CC	TT	TT	INTERGENIC			
SNP_24514_A_26937151	NC_021163.1	Ca_Kabuli_Chr04	26937151	TT	CC	CC	INTERGENIC			
SNP_24515_A_26937209	NC_021163.1	Ca_Kabuli_Chr04	26937209	TT	GG	GG	INTERGENIC			
SNP_24516_A_26947593	NC_021163.1	Ca_Kabuli_Chr04	26947593	GG	TT	TT	INTERGENIC			
SNP_24517_A_26947601	NC_021163.1	Ca_Kabuli_Chr04	26947601	TT	AA	AA	INTERGENIC			
SNP_24518_A_26947662	NC_021163.1	Ca_Kabuli_Chr04	26947662	AA	GG	GG	INTERGENIC			
SNP_24519_A_26947663	NC_021163.1	Ca_Kabuli_Chr04	26947663	AA	GG	GG	INTERGENIC			
SNP_24520_A_26947666	NC_021163.1	Ca_Kabuli_Chr04	26947666	AA	TT	TT	INTERGENIC			
SNP_24521_A_26952429	NC_021163.1	Ca_Kabuli_Chr04	26952429	GG	AA	AA	URR	101508984	uncharacterized TPR repeat-containing protein At1g05150-like	
SNP_24522_A_26961729	NC_021163.1	Ca_Kabuli_Chr04	26961729	AA	GG	GG	INTERGENIC			
SNP_24523_A_26966282	NC_021163.1	Ca_Kabuli_Chr04	26966282	TT	CC	CC	INTERGENIC			
SNP_24524_A_26967633	NC_021163.1	Ca_Kabuli_Chr04	26967633	GG	TT	TT	DRR	101509298	60S ribosomal protein L4-like	
SNP_24525_A_26970286	NC_021163.1	Ca_Kabuli_Chr04	26970286	TT	AA	AA	URR	101509298	60S ribosomal protein L4-like	
SNP_24526_A_26970670	NC_021163.1	Ca_Kabuli_Chr04	26970670	CC	AA	AA	URR	101509298	60S ribosomal protein L4-like	
SNP_24527_A_26976535	NC_021163.1	Ca_Kabuli_Chr04	26976535	GG	AA	AA	INTERGENIC			
SNP_24528_A_26979070	NC_021163.1	Ca_Kabuli_Chr04	26979070	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24529_A_26991164	NC_021163.1	Ca_Kabuli_Chr04	26991164	TT	CC	CC	URR	101509611	40S ribosomal protein S3-3
SNP_24531_A_27005105	NC_021163.1	Ca_Kabuli_Chr04	27005105	GG	AA	AA	INTERGENIC		
SNP_24532_A_27007607	NC_021163.1	Ca_Kabuli_Chr04	27007607	TT	AA	AA	INTERGENIC		
SNP_24533_A_27016029	NC_021163.1	Ca_Kabuli_Chr04	27016029	TT	CC	CC	INTERGENIC		
SNP_24534_A_27016058	NC_021163.1	Ca_Kabuli_Chr04	27016058	GG	AA	AA	INTERGENIC		
SNP_24535_A_27016170	NC_021163.1	Ca_Kabuli_Chr04	27016170	CC	TT	TT	INTERGENIC		
SNP_24536_A_27016304	NC_021163.1	Ca_Kabuli_Chr04	27016304	GG	AA	AA	INTERGENIC		
SNP_24537_A_27016707	NC_021163.1	Ca_Kabuli_Chr04	27016707	AA	CC	CC	INTERGENIC		
SNP_24538_A_27017121	NC_021163.1	Ca_Kabuli_Chr04	27017121	AA	GG	GG	INTERGENIC		
SNP_24540_A_27017429	NC_021163.1	Ca_Kabuli_Chr04	27017429	CC	AA	AA	INTERGENIC		
SNP_24541_A_27017698	NC_021163.1	Ca_Kabuli_Chr04	27017698	CC	TT	TT	INTERGENIC		
SNP_24542_A_27018012	NC_021163.1	Ca_Kabuli_Chr04	27018012	CC	TT	TT	INTERGENIC		
SNP_24543_A_27018594	NC_021163.1	Ca_Kabuli_Chr04	27018594	TT	CC	CC	INTERGENIC		
SNP_24544_A_27018689	NC_021163.1	Ca_Kabuli_Chr04	27018689	AA	TT	TT	INTERGENIC		
SNP_24545_A_27019383	NC_021163.1	Ca_Kabuli_Chr04	27019383	CC	TT	TT	INTERGENIC		
SNP_24546_A_27019750	NC_021163.1	Ca_Kabuli_Chr04	27019750	CC	AA	AA	INTERGENIC		
SNP_24547_A_27019754	NC_021163.1	Ca_Kabuli_Chr04	27019754	CC	AA	AA	INTERGENIC		
SNP_24548_A_27020032	NC_021163.1	Ca_Kabuli_Chr04	27020032	TT	GG	GG	INTERGENIC		
SNP_24549_A_27020035	NC_021163.1	Ca_Kabuli_Chr04	27020035	AA	GG	GG	INTERGENIC		
SNP_24550_A_27021007	NC_021163.1	Ca_Kabuli_Chr04	27021007	AA	GG	GG	INTERGENIC		
SNP_24551_A_27021282	NC_021163.1	Ca_Kabuli_Chr04	27021282	CC	TT	TT	INTERGENIC		
SNP_24552_A_27021482	NC_021163.1	Ca_Kabuli_Chr04	27021482	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24553_A_27021491	NC_021163.1	Ca_Kabuli_Chr04	27021491	GG	AA	AA	INTERGENIC		
SNP_24554_A_27022074	NC_021163.1	Ca_Kabuli_Chr04	27022074	CC	GG	GG	INTERGENIC		
SNP_24555_A_27026471	NC_021163.1	Ca_Kabuli_Chr04	27026471	GG	TT	TT	INTERGENIC		
SNP_24556_A_27027025	NC_021163.1	Ca_Kabuli_Chr04	27027025	CC	TT	TT	INTERGENIC		
SNP_24557_A_27027033	NC_021163.1	Ca_Kabuli_Chr04	27027033	AA	GG	GG	INTERGENIC		
SNP_24558_A_27037378	NC_021163.1	Ca_Kabuli_Chr04	27037378	CC	TT	TT	INTERGENIC		
SNP_24559_A_27038141	NC_021163.1	Ca_Kabuli_Chr04	27038141	CC	GG	GG	INTERGENIC		
SNP_24560_A_27041050	NC_021163.1	Ca_Kabuli_Chr04	27041050	GG	TT	TT	INTERGENIC		
SNP_24561_A_27057073	NC_021163.1	Ca_Kabuli_Chr04	27057073	AA	CC	CC	INTRON	101509941	oxidation resistance protein 1-like
SNP_24562_A_27061101	NC_021163.1	Ca_Kabuli_Chr04	27061101	AA	GG	GG	INTERGENIC		
SNP_24563_A_27065069	NC_021163.1	Ca_Kabuli_Chr04	27065069	AA	CC	CC	INTERGENIC		
SNP_24564_A_27065430	NC_021163.1	Ca_Kabuli_Chr04	27065430	TT	AA	AA	INTERGENIC		
SNP_24565_A_27068425	NC_021163.1	Ca_Kabuli_Chr04	27068425	TT	CC	CC	INTERGENIC		
SNP_24566_A_27069048	NC_021163.1	Ca_Kabuli_Chr04	27069048	TT	AA	AA	INTERGENIC		
SNP_24567_A_27070454	NC_021163.1	Ca_Kabuli_Chr04	27070454	AA	GG	GG	INTERGENIC		
SNP_24568_A_27070513	NC_021163.1	Ca_Kabuli_Chr04	27070513	CC	TT	TT	INTERGENIC		
SNP_24569_A_27070881	NC_021163.1	Ca_Kabuli_Chr04	27070881	GG	CC	CC	INTERGENIC		
SNP_24570_A_27071270	NC_021163.1	Ca_Kabuli_Chr04	27071270	TT	AA	AA	INTERGENIC		
SNP_24571_A_27072105	NC_021163.1	Ca_Kabuli_Chr04	27072105	CC	TT	TT	INTERGENIC		
SNP_24573_A_27077656	NC_021163.1	Ca_Kabuli_Chr04	27077656	TT	CC	CC	INTERGENIC		
SNP_24575_A_27081760	NC_021163.1	Ca_Kabuli_Chr04	27081760	CC	TT	TT	INTERGENIC		
SNP_24576_A_27082011	NC_021163.1	Ca_Kabuli_Chr04	27082011	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24577_A_27082279	NC_021163.1	Ca_Kabuli_Chr04	27082279	AA	GG	GG	INTERGENIC			
SNP_24578_A_27082376	NC_021163.1	Ca_Kabuli_Chr04	27082376	AA	GG	GG	INTERGENIC			
SNP_24580_A_27082859	NC_021163.1	Ca_Kabuli_Chr04	27082859	GG	AA	AA	INTERGENIC			
SNP_24582_A_27106685	NC_021163.1	Ca_Kabuli_Chr04	27106685	GG	AA	AA	INTERGENIC			
SNP_24583_A_27106914	NC_021163.1	Ca_Kabuli_Chr04	27106914	AA	GG	GG	INTERGENIC			
SNP_24584_A_27122720	NC_021163.1	Ca_Kabuli_Chr04	27122720	CC	TT	TT	INTERGENIC			
SNP_24585_A_27124747	NC_021163.1	Ca_Kabuli_Chr04	27124747	AA	GG	GG	URR	101510265		pre-mRNA-processing factor 19 homolog 2
SNP_24586_A_27136212	NC_021163.1	Ca_Kabuli_Chr04	27136212	CC	TT	TT	INTERGENIC			
SNP_24587_A_27137808	NC_021163.1	Ca_Kabuli_Chr04	27137808	GG	AA	AA	INTERGENIC			
SNP_24588_A_27137811	NC_021163.1	Ca_Kabuli_Chr04	27137811	CC	GG	GG	INTERGENIC			
SNP_24589_A_27140021	NC_021163.1	Ca_Kabuli_Chr04	27140021	TT	CC	CC	INTERGENIC			
SNP_24590_A_27141872	NC_021163.1	Ca_Kabuli_Chr04	27141872	GG	TT	TT	INTERGENIC			
SNP_24591_A_27143276	NC_021163.1	Ca_Kabuli_Chr04	27143276	GG	AA	AA	INTERGENIC			
SNP_24592_A_27143282	NC_021163.1	Ca_Kabuli_Chr04	27143282	GG	AA	AA	INTERGENIC			
SNP_24593_A_27143311	NC_021163.1	Ca_Kabuli_Chr04	27143311	AA	GG	GG	INTERGENIC			
SNP_24594_A_27147012	NC_021163.1	Ca_Kabuli_Chr04	27147012	AA	CC	CC	INTERGENIC			
SNP_24596_A_27153064	NC_021163.1	Ca_Kabuli_Chr04	27153064	CC	TT	TT	INTERGENIC			
SNP_24598_A_27170284	NC_021163.1	Ca_Kabuli_Chr04	27170284	GG	TT	TT	INTERGENIC			
SNP_24599_A_27170715	NC_021163.1	Ca_Kabuli_Chr04	27170715	CC	AA	AA	INTERGENIC			
SNP_24600_A_27172845	NC_021163.1	Ca_Kabuli_Chr04	27172845	TT	CC	CC	INTERGENIC			
SNP_24601_A_27173145	NC_021163.1	Ca_Kabuli_Chr04	27173145	GG	TT	TT	INTERGENIC			
SNP_24602_A_27173185	NC_021163.1	Ca_Kabuli_Chr04	27173185	TT	CC	CC	INTERGENIC			

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SNP_24603_A_27173278	NC_021163.1	Ca_Kabuli_Chr04	27173278	AA	GG	GG	INTERGENIC		
SNP_24604_A_27180836	NC_021163.1	Ca_Kabuli_Chr04	27180836	CC	AA	AA	INTERGENIC		
SNP_24605_A_27182656	NC_021163.1	Ca_Kabuli_Chr04	27182656	GG	AA	AA	INTERGENIC		
SNP_24607_A_27185920	NC_021163.1	Ca_Kabuli_Chr04	27185920	CC	TT	TT	INTERGENIC		
SNP_24608_A_27185974	NC_021163.1	Ca_Kabuli_Chr04	27185974	GG	CC	CC	INTERGENIC		
SNP_24609_A_27197886	NC_021163.1	Ca_Kabuli_Chr04	27197886	TT	CC	CC	URR	101512836	homeobox protein 5
SNP_24610_A_27198961	NC_021163.1	Ca_Kabuli_Chr04	27198961	AA	GG	GG	URR	101512836	homeobox protein 5
SNP_24611_A_27199028	NC_021163.1	Ca_Kabuli_Chr04	27199028	CC	AA	AA	URR	101512836	homeobox protein 5
SNP_24612_A_27199039	NC_021163.1	Ca_Kabuli_Chr04	27199039	AA	GG	GG	URR	101512836	homeobox protein 5
SNP_24613_A_27199543	NC_021163.1	Ca_Kabuli_Chr04	27199543	AA	GG	GG	DRR	101513163	uncharacterized LOC101513163
SNP_24614_A_27201081	NC_021163.1	Ca_Kabuli_Chr04	27201081	GG	AA	AA	DRR	101513485	Unknown function
SNP_24615_A_27205095	NC_021163.1	Ca_Kabuli_Chr04	27205095	TT	CC	CC	URR	101513485	Unknown function
SNP_24616_A_27206557	NC_021163.1	Ca_Kabuli_Chr04	27206557	CC	TT	TT	INTERGENIC		
SNP_24617_A_27207205	NC_021163.1	Ca_Kabuli_Chr04	27207205	CC	AA	AA	INTERGENIC		
SNP_24618_A_27207893	NC_021163.1	Ca_Kabuli_Chr04	27207893	CC	AA	AA	INTERGENIC		
SNP_24619_A_27208335	NC_021163.1	Ca_Kabuli_Chr04	27208335	AA	GG	GG	INTERGENIC		
SNP_24620_A_27208358	NC_021163.1	Ca_Kabuli_Chr04	27208358	AA	GG	GG	INTERGENIC		
SNP_24621_A_27208359	NC_021163.1	Ca_Kabuli_Chr04	27208359	CC	AA	AA	INTERGENIC		
SNP_24622_A_27210217	NC_021163.1	Ca_Kabuli_Chr04	27210217	CC	GG	GG	INTERGENIC		
SNP_24623_A_27210395	NC_021163.1	Ca_Kabuli_Chr04	27210395	AA	TT	TT	INTERGENIC		
SNP_24624_A_27212829	NC_021163.1	Ca_Kabuli_Chr04	27212829	TT	AA	AA	INTERGENIC		
SNP_24625_A_27213197	NC_021163.1	Ca_Kabuli_Chr04	27213197	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24626_A_27213247	NC_021163.1	Ca_Kabuli_Chr04	27213247	AA	GG	GG	INTERGENIC		
SNP_24627_A_27213588	NC_021163.1	Ca_Kabuli_Chr04	27213588	AA	CC	CC	INTERGENIC		
SNP_24628_A_27215519	NC_021163.1	Ca_Kabuli_Chr04	27215519	TT	CC	CC	INTERGENIC		
SNP_24631_A_27240725	NC_021163.1	Ca_Kabuli_Chr04	27240725	CC	TT	TT	INTERGENIC		
SNP_24633_A_27246990	NC_021163.1	Ca_Kabuli_Chr04	27246990	AA	GG	GG	SYNONYMOUS_CODING	101510593	uncharacterized LOC101510593
SNP_24634_A_27249261	NC_021163.1	Ca_Kabuli_Chr04	27249261	GG	AA	AA	URR	101510593	uncharacterized LOC101510593
SNP_24635_A_27251554	NC_021163.1	Ca_Kabuli_Chr04	27251554	CC	TT	TT	INTERGENIC		
SNP_24636_A_27253545	NC_021163.1	Ca_Kabuli_Chr04	27253545	TT	GG	GG	INTERGENIC		
SNP_24637_A_27253546	NC_021163.1	Ca_Kabuli_Chr04	27253546	CC	AA	AA	INTERGENIC		
SNP_24638_A_27257036	NC_021163.1	Ca_Kabuli_Chr04	27257036	TT	CC	CC	NON_SYNONYMOUS_CODING	101513790	sugar transport protein 10-like
SNP_24639_A_27257137	NC_021163.1	Ca_Kabuli_Chr04	27257137	CC	GG	GG	NON_SYNONYMOUS_CODING	101513790	sugar transport protein 10-like
SNP_24640_A_27257230	NC_021163.1	Ca_Kabuli_Chr04	27257230	AA	GG	GG	URR	101513790	sugar transport protein 10-like
SNP_24641_A_27258567	NC_021163.1	Ca_Kabuli_Chr04	27258567	AA	TT	TT	URR	101513790	sugar transport protein 10-like
SNP_24643_A_27260725	NC_021163.1	Ca_Kabuli_Chr04	27260725	GG	CC	CC	INTERGENIC		
SNP_24644_A_27261833	NC_021163.1	Ca_Kabuli_Chr04	27261833	CC	AA	AA	INTERGENIC		
SNP_24645_A_27266248	NC_021163.1	Ca_Kabuli_Chr04	27266248	TT	CC	CC	INTRON	101514135	sugar transport protein 10-like
SNP_24646_A_27266317	NC_021163.1	Ca_Kabuli_Chr04	27266317	CC	AA	AA	INTRON	101514135	sugar transport protein 10-like
SNP_24647_A_27266370	NC_021163.1	Ca_Kabuli_Chr04	27266370	GG	AA	AA	INTRON	101514135	sugar transport protein 10-like
SNP_24648_A_27266481	NC_021163.1	Ca_Kabuli_Chr04	27266481	GG	AA	AA	INTRON	101514135	sugar transport protein 10-like
SNP_24649_A_27266505	NC_021163.1	Ca_Kabuli_Chr04	27266505	CC	GG	GG	INTRON	101514135	sugar transport protein 10-like
SNP_24650_A_27266567	NC_021163.1	Ca_Kabuli_Chr04	27266567	AA	GG	GG	INTRON	101514135	sugar transport protein 10-like
SNP_24651_A_27266594	NC_021163.1	Ca_Kabuli_Chr04	27266594	AA	TT	TT	INTRON	101514135	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24652_A_27266635	NC_021163.1	Ca_Kabuli_Chr04	27266635	CC	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24653_A_27266644	NC_021163.1	Ca_Kabuli_Chr04	27266644	CC	AA	AA	INTRON		101514135	sugar transport protein 10-like
SNP_24654_A_27266658	NC_021163.1	Ca_Kabuli_Chr04	27266658	TT	CC	CC	INTRON		101514135	sugar transport protein 10-like
SNP_24655_A_27266660	NC_021163.1	Ca_Kabuli_Chr04	27266660	AA	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24656_A_27266748	NC_021163.1	Ca_Kabuli_Chr04	27266748	TT	AA	AA	INTRON		101514135	sugar transport protein 10-like
SNP_24657_A_27266780	NC_021163.1	Ca_Kabuli_Chr04	27266780	GG	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24658_A_27266849	NC_021163.1	Ca_Kabuli_Chr04	27266849	AA	CC	CC	INTRON		101514135	sugar transport protein 10-like
SNP_24659_A_27266887	NC_021163.1	Ca_Kabuli_Chr04	27266887	AA	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24660_A_27266933	NC_021163.1	Ca_Kabuli_Chr04	27266933	TT	GG	GG	INTRON		101514135	sugar transport protein 10-like
SNP_24661_A_27266957	NC_021163.1	Ca_Kabuli_Chr04	27266957	CC	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24662_A_27266973	NC_021163.1	Ca_Kabuli_Chr04	27266973	AA	GG	GG	INTRON		101514135	sugar transport protein 10-like
SNP_24663_A_27267083	NC_021163.1	Ca_Kabuli_Chr04	27267083	AA	GG	GG	INTRON		101514135	sugar transport protein 10-like
SNP_24665_A_27267220	NC_021163.1	Ca_Kabuli_Chr04	27267220	AA	GG	GG	INTRON		101514135	sugar transport protein 10-like
SNP_24666_A_27267294	NC_021163.1	Ca_Kabuli_Chr04	27267294	CC	TT	TT	INTRON		101514135	sugar transport protein 10-like
SNP_24667_A_27270611	NC_021163.1	Ca_Kabuli_Chr04	27270611	TT	GG	GG	NON_SYNONYMOUS_CODING		101514135	sugar transport protein 10-like
SNP_24668_A_27270763	NC_021163.1	Ca_Kabuli_Chr04	27270763	TT	CC	CC	INTRON		101514135	sugar transport protein 10-like
SNP_24669_A_27270894	NC_021163.1	Ca_Kabuli_Chr04	27270894	AA	GG	GG	INTRON		101514135	sugar transport protein 10-like
SNP_24670_A_27270957	NC_021163.1	Ca_Kabuli_Chr04	27270957	CC	AA	AA	INTRON		101514135	sugar transport protein 10-like
SNP_24671_A_27272328	NC_021163.1	Ca_Kabuli_Chr04	27272328	AA	CC	CC	URR		101514135	sugar transport protein 10-like
SNP_24672_A_27272604	NC_021163.1	Ca_Kabuli_Chr04	27272604	CC	TT	TT	URR		101514135	sugar transport protein 10-like
SNP_24673_A_27274165	NC_021163.1	Ca_Kabuli_Chr04	27274165	CC	GG	GG	URR		101514135	sugar transport protein 10-like
SNP_24674_A_27274172	NC_021163.1	Ca_Kabuli_Chr04	27274172	CC	TT	TT	URR		101514135	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24675_A_27274177	NC_021163.1	Ca_Kabuli_Chr04	27274177	TT	AA	AA	URR	101514135	sugar transport protein 10-like
SNP_24676_A_27274413	NC_021163.1	Ca_Kabuli_Chr04	27274413	CC	TT	TT	INTERGENIC		
SNP_24677_A_27283442	NC_021163.1	Ca_Kabuli_Chr04	27283442	AA	GG	GG	INTERGENIC		
SNP_24679_A_27283904	NC_021163.1	Ca_Kabuli_Chr04	27283904	TT	CC	CC	INTERGENIC		
SNP_24680_A_27283910	NC_021163.1	Ca_Kabuli_Chr04	27283910	AA	TT	TT	INTERGENIC		
SNP_24681_A_27285126	NC_021163.1	Ca_Kabuli_Chr04	27285126	TT	CC	CC	INTERGENIC		
SNP_24682_A_27285248	NC_021163.1	Ca_Kabuli_Chr04	27285248	GG	AA	AA	INTERGENIC		
SNP_24683_A_27285379	NC_021163.1	Ca_Kabuli_Chr04	27285379	AA	GG	GG	INTERGENIC		
SNP_24684_A_27285392	NC_021163.1	Ca_Kabuli_Chr04	27285392	GG	TT	TT	INTERGENIC		
SNP_24685_A_27285455	NC_021163.1	Ca_Kabuli_Chr04	27285455	AA	TT	TT	INTERGENIC		
SNP_24686_A_27285601	NC_021163.1	Ca_Kabuli_Chr04	27285601	AA	CC	CC	INTERGENIC		
SNP_24688_A_27313644	NC_021163.1	Ca_Kabuli_Chr04	27313644	TT	AA	AA	INTERGENIC		
SNP_24689_A_27314472	NC_021163.1	Ca_Kabuli_Chr04	27314472	CC	AA	AA	INTERGENIC		
SNP_24690_A_27314646	NC_021163.1	Ca_Kabuli_Chr04	27314646	GG	AA	AA	INTERGENIC		
SNP_24691_A_27314703	NC_021163.1	Ca_Kabuli_Chr04	27314703	TT	CC	CC	INTERGENIC		
SNP_24692_A_27314837	NC_021163.1	Ca_Kabuli_Chr04	27314837	CC	TT	TT	INTERGENIC		
SNP_24693_A_27314843	NC_021163.1	Ca_Kabuli_Chr04	27314843	AA	GG	GG	INTERGENIC		
SNP_24694_A_27314971	NC_021163.1	Ca_Kabuli_Chr04	27314971	TT	AA	AA	INTERGENIC		
SNP_24695_A_27316083	NC_021163.1	Ca_Kabuli_Chr04	27316083	CC	TT	TT	INTERGENIC		
SNP_24696_A_27316088	NC_021163.1	Ca_Kabuli_Chr04	27316088	TT	CC	CC	INTERGENIC		
SNP_24697_A_27316090	NC_021163.1	Ca_Kabuli_Chr04	27316090	GG	AA	AA	INTERGENIC		
SNP_24698_A_27316130	NC_021163.1	Ca_Kabuli_Chr04	27316130	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24699_A_27316161	NC_021163.1	Ca_Kabuli_Chr04	27316161	CC	TT	TT	INTERGENIC			
SNP_24700_A_27316220	NC_021163.1	Ca_Kabuli_Chr04	27316220	CC	TT	TT	INTERGENIC			
SNP_24701_A_27316221	NC_021163.1	Ca_Kabuli_Chr04	27316221	GG	AA	AA	INTERGENIC			
SNP_24702_A_27316294	NC_021163.1	Ca_Kabuli_Chr04	27316294	GG	AA	AA	INTERGENIC			
SNP_24703_A_27316319	NC_021163.1	Ca_Kabuli_Chr04	27316319	CC	GG	GG	INTERGENIC			
SNP_24704_A_27316645	NC_021163.1	Ca_Kabuli_Chr04	27316645	TT	CC	CC	INTERGENIC			
SNP_24705_A_27319291	NC_021163.1	Ca_Kabuli_Chr04	27319291	GG	AA	AA	INTERGENIC			
SNP_24706_A_27319325	NC_021163.1	Ca_Kabuli_Chr04	27319325	GG	AA	AA	INTERGENIC			
SNP_24707_A_27319331	NC_021163.1	Ca_Kabuli_Chr04	27319331	AA	TT	TT	INTERGENIC			
SNP_24708_A_27319333	NC_021163.1	Ca_Kabuli_Chr04	27319333	CC	AA	AA	INTERGENIC			
SNP_24709_A_27319359	NC_021163.1	Ca_Kabuli_Chr04	27319359	TT	CC	CC	INTERGENIC			
SNP_24710_A_27319363	NC_021163.1	Ca_Kabuli_Chr04	27319363	AA	CC	CC	INTERGENIC			
SNP_24711_A_27323548	NC_021163.1	Ca_Kabuli_Chr04	27323548	AA	GG	GG	INTERGENIC			
SNP_24712_A_27323843	NC_021163.1	Ca_Kabuli_Chr04	27323843	AA	GG	GG	INTERGENIC			
SNP_24713_A_27324635	NC_021163.1	Ca_Kabuli_Chr04	27324635	TT	AA	AA	INTERGENIC			
SNP_24714_A_27325016	NC_021163.1	Ca_Kabuli_Chr04	27325016	AA	CC	CC	INTERGENIC			
SNP_24715_A_27325413	NC_021163.1	Ca_Kabuli_Chr04	27325413	CC	GG	GG	INTERGENIC			
SNP_24716_A_27325415	NC_021163.1	Ca_Kabuli_Chr04	27325415	GG	AA	AA	INTERGENIC			
SNP_24717_A_27328654	NC_021163.1	Ca_Kabuli_Chr04	27328654	CC	TT	TT	INTERGENIC			
SNP_24718_A_27330237	NC_021163.1	Ca_Kabuli_Chr04	27330237	TT	AA	AA	INTERGENIC			
SNP_24719_A_27331956	NC_021163.1	Ca_Kabuli_Chr04	27331956	TT	CC	CC	INTERGENIC			
SNP_24720_A_27332028	NC_021163.1	Ca_Kabuli_Chr04	27332028	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24721_A_27336031	NC_021163.1	Ca_Kabuli_Chr04	27336031	CC	GG	GG	INTERGENIC			
SNP_24722_A_27336044	NC_021163.1	Ca_Kabuli_Chr04	27336044	AA	GG	GG	INTERGENIC			
SNP_24723_A_27336052	NC_021163.1	Ca_Kabuli_Chr04	27336052	TT	AA	AA	INTERGENIC			
SNP_24724_A_27336075	NC_021163.1	Ca_Kabuli_Chr04	27336075	TT	AA	AA	INTERGENIC			
SNP_24725_A_27336091	NC_021163.1	Ca_Kabuli_Chr04	27336091	AA	GG	GG	INTERGENIC			
SNP_24726_A_27336102	NC_021163.1	Ca_Kabuli_Chr04	27336102	TT	CC	CC	INTERGENIC			
SNP_24727_A_27340551	NC_021163.1	Ca_Kabuli_Chr04	27340551	GG	TT	TT	INTERGENIC			
SNP_24728_A_27340903	NC_021163.1	Ca_Kabuli_Chr04	27340903	TT	AA	AA	INTERGENIC			
SNP_24729_A_27340909	NC_021163.1	Ca_Kabuli_Chr04	27340909	GG	AA	AA	INTERGENIC			
SNP_24730_A_27348079	NC_021163.1	Ca_Kabuli_Chr04	27348079	CC	TT	TT	INTERGENIC			
SNP_24731_A_27350788	NC_021163.1	Ca_Kabuli_Chr04	27350788	TT	CC	CC	INTERGENIC			
SNP_24732_A_27350791	NC_021163.1	Ca_Kabuli_Chr04	27350791	CC	AA	AA	INTERGENIC			
SNP_24733_A_27350806	NC_021163.1	Ca_Kabuli_Chr04	27350806	TT	CC	CC	INTERGENIC			
SNP_24734_A_27350852	NC_021163.1	Ca_Kabuli_Chr04	27350852	TT	CC	CC	INTERGENIC			
SNP_24735_A_27350883	NC_021163.1	Ca_Kabuli_Chr04	27350883	GG	AA	AA	INTERGENIC			
SNP_24736_A_27351761	NC_021163.1	Ca_Kabuli_Chr04	27351761	CC	GG	GG	INTERGENIC			
SNP_24737_A_27351766	NC_021163.1	Ca_Kabuli_Chr04	27351766	TT	CC	CC	INTERGENIC			
SNP_24738_A_27354125	NC_021163.1	Ca_Kabuli_Chr04	27354125	AA	GG	GG	INTERGENIC			
SNP_24739_A_27354313	NC_021163.1	Ca_Kabuli_Chr04	27354313	CC	GG	GG	INTERGENIC			
SNP_24740_A_27354359	NC_021163.1	Ca_Kabuli_Chr04	27354359	CC	TT	TT	INTERGENIC			
SNP_24741_A_27354366	NC_021163.1	Ca_Kabuli_Chr04	27354366	CC	TT	TT	INTERGENIC			
SNP_24742_A_27354386	NC_021163.1	Ca_Kabuli_Chr04	27354386	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24743_A_27355158	NC_021163.1	Ca_Kabuli_Chr04	27355158	AA	TT	TT	INTERGENIC			
SNP_24744_A_27355160	NC_021163.1	Ca_Kabuli_Chr04	27355160	GG	TT	TT	INTERGENIC			
SNP_24746_A_27356489	NC_021163.1	Ca_Kabuli_Chr04	27356489	GG	TT	TT	INTERGENIC			
SNP_24747_A_27356502	NC_021163.1	Ca_Kabuli_Chr04	27356502	CC	AA	AA	INTERGENIC			
SNP_24748_A_27356798	NC_021163.1	Ca_Kabuli_Chr04	27356798	AA	CC	CC	INTERGENIC			
SNP_24749_A_27356803	NC_021163.1	Ca_Kabuli_Chr04	27356803	AA	GG	GG	INTERGENIC			
SNP_24750_A_27357115	NC_021163.1	Ca_Kabuli_Chr04	27357115	AA	GG	GG	INTERGENIC			
SNP_24752_A_27357170	NC_021163.1	Ca_Kabuli_Chr04	27357170	AA	GG	GG	INTERGENIC			
SNP_24753_A_27360426	NC_021163.1	Ca_Kabuli_Chr04	27360426	TT	GG	GG	INTERGENIC			
SNP_24754_A_27362164	NC_021163.1	Ca_Kabuli_Chr04	27362164	AA	GG	GG	INTERGENIC			
SNP_24755_A_27362210	NC_021163.1	Ca_Kabuli_Chr04	27362210	CC	TT	TT	INTERGENIC			
SNP_24756_A_27362228	NC_021163.1	Ca_Kabuli_Chr04	27362228	AA	TT	TT	INTERGENIC			
SNP_24757_A_27362558	NC_021163.1	Ca_Kabuli_Chr04	27362558	AA	GG	GG	INTERGENIC			
SNP_24758_A_27364312	NC_021163.1	Ca_Kabuli_Chr04	27364312	AA	GG	GG	INTERGENIC			
SNP_24759_A_27365360	NC_021163.1	Ca_Kabuli_Chr04	27365360	TT	AA	AA	INTERGENIC			
SNP_24760_A_27366720	NC_021163.1	Ca_Kabuli_Chr04	27366720	GG	AA	AA	INTERGENIC			
SNP_24761_A_27366729	NC_021163.1	Ca_Kabuli_Chr04	27366729	TT	CC	CC	INTERGENIC			
SNP_24762_A_27367025	NC_021163.1	Ca_Kabuli_Chr04	27367025	GG	AA	AA	INTERGENIC			
SNP_24763_A_27367242	NC_021163.1	Ca_Kabuli_Chr04	27367242	TT	CC	CC	INTERGENIC			
SNP_24764_A_27367763	NC_021163.1	Ca_Kabuli_Chr04	27367763	AA	TT	TT	INTERGENIC			
SNP_24767_A_27368181	NC_021163.1	Ca_Kabuli_Chr04	27368181	AA	CC	CC	INTERGENIC			
SNP_24768_A_27368324	NC_021163.1	Ca_Kabuli_Chr04	27368324	AA	CC	CC	INTERGENIC			

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SNP_24769_A_27368326	NC_021163.1	Ca_Kabuli_Chr04	27368326	CC	TT	TT	INTERGENIC			
SNP_24770_A_27368375	NC_021163.1	Ca_Kabuli_Chr04	27368375	TT	CC	CC	INTERGENIC			
SNP_24771_A_27368382	NC_021163.1	Ca_Kabuli_Chr04	27368382	GG	CC	CC	INTERGENIC			
SNP_24772_A_27368409	NC_021163.1	Ca_Kabuli_Chr04	27368409	CC	TT	TT	INTERGENIC			
SNP_24773_A_27368698	NC_021163.1	Ca_Kabuli_Chr04	27368698	TT	CC	CC	INTERGENIC			
SNP_24774_A_27368700	NC_021163.1	Ca_Kabuli_Chr04	27368700	AA	GG	GG	INTERGENIC			
SNP_24775_A_27368731	NC_021163.1	Ca_Kabuli_Chr04	27368731	GG	AA	AA	INTERGENIC			
SNP_24776_A_27368987	NC_021163.1	Ca_Kabuli_Chr04	27368987	TT	CC	CC	INTERGENIC			
SNP_24777_A_27369003	NC_021163.1	Ca_Kabuli_Chr04	27369003	AA	GG	GG	INTERGENIC			
SNP_24779_A_27377850	NC_021163.1	Ca_Kabuli_Chr04	27377850	TT	GG	GG	INTERGENIC			
SNP_24782_A_27380028	NC_021163.1	Ca_Kabuli_Chr04	27380028	TT	CC	CC	URR	101514462	uncharacterized LOC101514462	
SNP_24783_A_27381684	NC_021163.1	Ca_Kabuli_Chr04	27381684	TT	CC	CC	INTERGENIC			
SNP_24784_A_27383574	NC_021163.1	Ca_Kabuli_Chr04	27383574	GG	AA	AA	URR	101490715	Unknown function	
SNP_24785_A_27383983	NC_021163.1	Ca_Kabuli_Chr04	27383983	GG	AA	AA	URR	101490715	Unknown function	
SNP_24786_A_27384002	NC_021163.1	Ca_Kabuli_Chr04	27384002	AA	GG	GG	URR	101490715	Unknown function	
SNP_24787_A_27386379	NC_021163.1	Ca_Kabuli_Chr04	27386379	TT	AA	AA	URR	101514787	single-stranded DNA-binding protein, mitochondrial	
SNP_24788_A_27386689	NC_021163.1	Ca_Kabuli_Chr04	27386689	AA	TT	TT	URR	101514787	single-stranded DNA-binding protein, mitochondrial	
SNP_24789_A_27389074	NC_021163.1	Ca_Kabuli_Chr04	27389074	TT	CC	CC	INTERGENIC			
SNP_24790_A_27390770	NC_021163.1	Ca_Kabuli_Chr04	27390770	TT	CC	CC	INTERGENIC			
SNP_24791_A_27396609	NC_021163.1	Ca_Kabuli_Chr04	27396609	GG	AA	AA	INTERGENIC			
SNP_24792_A_27397210	NC_021163.1	Ca_Kabuli_Chr04	27397210	CC	TT	TT	INTERGENIC			
SNP_24793_A_27397315	NC_021163.1	Ca_Kabuli_Chr04	27397315	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24794_A_27397348	NC_021163.1	Ca_Kabuli_Chr04	27397348	CC	TT	TT	INTERGENIC			
SNP_24795_A_27397365	NC_021163.1	Ca_Kabuli_Chr04	27397365	GG	AA	AA	INTERGENIC			
SNP_24796_A_27397366	NC_021163.1	Ca_Kabuli_Chr04	27397366	AA	GG	GG	INTERGENIC			
SNP_24797_A_27397387	NC_021163.1	Ca_Kabuli_Chr04	27397387	AA	CC	CC	INTERGENIC			
SNP_24798_A_27397389	NC_021163.1	Ca_Kabuli_Chr04	27397389	CC	AA	AA	INTERGENIC			
SNP_24799_A_27397564	NC_021163.1	Ca_Kabuli_Chr04	27397564	TT	GG	GG	INTERGENIC			
SNP_24800_A_27397579	NC_021163.1	Ca_Kabuli_Chr04	27397579	TT	CC	CC	INTERGENIC			
SNP_24801_A_27398013	NC_021163.1	Ca_Kabuli_Chr04	27398013	CC	TT	TT	INTERGENIC			
SNP_24802_A_27398512	NC_021163.1	Ca_Kabuli_Chr04	27398512	GG	TT	TT	INTERGENIC			
SNP_24803_A_27398513	NC_021163.1	Ca_Kabuli_Chr04	27398513	CC	TT	TT	INTERGENIC			
SNP_24804_A_27402189	NC_021163.1	Ca_Kabuli_Chr04	27402189	GG	AA	AA	INTERGENIC			
SNP_24805_A_27403405	NC_021163.1	Ca_Kabuli_Chr04	27403405	GG	AA	AA	INTERGENIC			
SNP_24806_A_27403448	NC_021163.1	Ca_Kabuli_Chr04	27403448	CC	AA	AA	INTERGENIC			
SNP_24808_A_27403850	NC_021163.1	Ca_Kabuli_Chr04	27403850	GG	AA	AA	INTERGENIC			
SNP_24809_A_27404252	NC_021163.1	Ca_Kabuli_Chr04	27404252	GG	CC	CC	INTERGENIC			
SNP_24811_A_27405724	NC_021163.1	Ca_Kabuli_Chr04	27405724	GG	CC	CC	INTERGENIC			
SNP_24812_A_27410826	NC_021163.1	Ca_Kabuli_Chr04	27410826	CC	TT	TT	INTERGENIC			
SNP_24813_A_27417678	NC_021163.1	Ca_Kabuli_Chr04	27417678	GG	CC	CC	INTERGENIC			
SNP_24814_A_27419865	NC_021163.1	Ca_Kabuli_Chr04	27419865	GG	AA	AA	DRR	101515110	acid phosphatase 1	
SNP_24815_A_27420145	NC_021163.1	Ca_Kabuli_Chr04	27420145	CC	TT	TT	DRR	101515110	acid phosphatase 1	
SNP_24816_A_27424209	NC_021163.1	Ca_Kabuli_Chr04	27424209	CC	TT	TT	URR	101515110	acid phosphatase 1	
SNP_24817_A_27424280	NC_021163.1	Ca_Kabuli_Chr04	27424280	CC	TT	TT	URR	101515110	acid phosphatase 1	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24818_A_27424306	NC_021163.1	Ca_Kabuli_Chr04	27424306	AA	GG	GG	URR	101515110	acid phosphatase 1
SNP_24819_A_27427230	NC_021163.1	Ca_Kabuli_Chr04	27427230	GG	AA	AA	INTERGENIC		
SNP_24820_A_27433835	NC_021163.1	Ca_Kabuli_Chr04	27433835	CC	AA	AA	INTERGENIC		
SNP_24821_A_27433851	NC_021163.1	Ca_Kabuli_Chr04	27433851	CC	GG	GG	INTERGENIC		
SNP_24822_A_27433857	NC_021163.1	Ca_Kabuli_Chr04	27433857	TT	AA	AA	INTERGENIC		
SNP_24823_A_27433888	NC_021163.1	Ca_Kabuli_Chr04	27433888	TT	CC	CC	INTERGENIC		
SNP_24824_A_27433923	NC_021163.1	Ca_Kabuli_Chr04	27433923	CC	TT	TT	INTERGENIC		
SNP_24825_A_27434972	NC_021163.1	Ca_Kabuli_Chr04	27434972	TT	GG	GG	INTERGENIC		
SNP_24826_A_27440475	NC_021163.1	Ca_Kabuli_Chr04	27440475	GG	AA	AA	INTERGENIC		
SNP_24827_A_27478446	NC_021163.1	Ca_Kabuli_Chr04	27478446	AA	GG	GG	INTERGENIC		
SNP_24828_A_27481545	NC_021163.1	Ca_Kabuli_Chr04	27481545	TT	CC	CC	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24829_A_27481551	NC_021163.1	Ca_Kabuli_Chr04	27481551	CC	GG	GG	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24830_A_27481599	NC_021163.1	Ca_Kabuli_Chr04	27481599	CC	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24831_A_27481605	NC_021163.1	Ca_Kabuli_Chr04	27481605	GG	AA	AA	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24832_A_27481607	NC_021163.1	Ca_Kabuli_Chr04	27481607	AA	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24833_A_27481613	NC_021163.1	Ca_Kabuli_Chr04	27481613	AA	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24834_A_27481840	NC_021163.1	Ca_Kabuli_Chr04	27481840	GG	AA	AA	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24835_A_27481856	NC_021163.1	Ca_Kabuli_Chr04	27481856	CC	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24836_A_27481863	NC_021163.1	Ca_Kabuli_Chr04	27481863	TT	AA	AA	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24837_A_27481867	NC_021163.1	Ca_Kabuli_Chr04	27481867	GG	AA	AA	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24838_A_27481877	NC_021163.1	Ca_Kabuli_Chr04	27481877	TT	CC	CC	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24839_A_27481891	NC_021163.1	Ca_Kabuli_Chr04	27481891	TT	CC	CC	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24840_A_27481900	NC_021163.1	Ca_Kabuli_Chr04	27481900	CC	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24841_A_27481901	NC_021163.1	Ca_Kabuli_Chr04	27481901	CC	TT	TT	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24842_A_27481916	NC_021163.1	Ca_Kabuli_Chr04	27481916	GG	AA	AA	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24843_A_27482382	NC_021163.1	Ca_Kabuli_Chr04	27482382	TT	CC	CC	DRR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24845_A_27484314	NC_021163.1	Ca_Kabuli_Chr04	27484314	TT	AA	AA	URR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24846_A_27484380	NC_021163.1	Ca_Kabuli_Chr04	27484380	GG	AA	AA	URR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24847_A_27484439	NC_021163.1	Ca_Kabuli_Chr04	27484439	AA	GG	GG	URR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24848_A_27484467	NC_021163.1	Ca_Kabuli_Chr04	27484467	CC	TT	TT	URR	101515763	protein PROTON GRADIENT REGULATION 5, chloroplastic
SNP_24849_A_27487442	NC_021163.1	Ca_Kabuli_Chr04	27487442	AA	CC	CC	INTERGENIC		
SNP_24851_A_27491829	NC_021163.1	Ca_Kabuli_Chr04	27491829	TT	AA	AA	DRR	101491036	uncharacterized LOC101491036
SNP_24853_A_27491879	NC_021163.1	Ca_Kabuli_Chr04	27491879	GG	AA	AA	DRR	101491036	uncharacterized LOC101491036
SNP_24854_A_27493403	NC_021163.1	Ca_Kabuli_Chr04	27493403	TT	AA	AA	DRR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24855_A_27496098	NC_021163.1	Ca_Kabuli_Chr04	27496098	CC	TT	TT	INTERGENIC		
SNP_24856_A_27496381	NC_021163.1	Ca_Kabuli_Chr04	27496381	GG	CC	CC	INTERGENIC		
SNP_24858_A_27497443	NC_021163.1	Ca_Kabuli_Chr04	27497443	GG	CC	CC	INTERGENIC		
SNP_24860_A_27499387	NC_021163.1	Ca_Kabuli_Chr04	27499387	TT	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24861_A_27499408	NC_021163.1	Ca_Kabuli_Chr04	27499408	TT	CC	CC	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24862_A_27499760	NC_021163.1	Ca_Kabuli_Chr04	27499760	GG	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24863_A_27499805	NC_021163.1	Ca_Kabuli_Chr04	27499805	TT	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24864_A_27499827	NC_021163.1	Ca_Kabuli_Chr04	27499827	CC	TT	TT	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24866_A_27503309	NC_021163.1	Ca_Kabuli_Chr04	27503309	CC	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24867_A_27503548	NC_021163.1	Ca_Kabuli_Chr04	27503548	CC	GG	GG	INTRON	101488522	actin-related protein 2/3 complex subunit 2B

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24868_A_27504826	NC_021163.1	Ca_Kabuli_Chr04	27504826	TT	CC	CC	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24869_A_27506590	NC_021163.1	Ca_Kabuli_Chr04	27506590	GG	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24870_A_27506612	NC_021163.1	Ca_Kabuli_Chr04	27506612	AA	GG	GG	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24871_A_27506990	NC_021163.1	Ca_Kabuli_Chr04	27506990	TT	AA	AA	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24872_A_27507006	NC_021163.1	Ca_Kabuli_Chr04	27507006	TT	CC	CC	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24873_A_27509182	NC_021163.1	Ca_Kabuli_Chr04	27509182	AA	GG	GG	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24874_A_27509357	NC_021163.1	Ca_Kabuli_Chr04	27509357	AA	GG	GG	INTRON	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24875_A_27511009	NC_021163.1	Ca_Kabuli_Chr04	27511009	GG	AA	AA	URR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24876_A_27511047	NC_021163.1	Ca_Kabuli_Chr04	27511047	CC	TT	TT	URR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24877_A_27511078	NC_021163.1	Ca_Kabuli_Chr04	27511078	TT	AA	AA	URR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24878_A_27512129	NC_021163.1	Ca_Kabuli_Chr04	27512129	AA	GG	GG	URR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24879_A_27512358	NC_021163.1	Ca_Kabuli_Chr04	27512358	TT	GG	GG	URR	101488522	actin-related protein 2/3 complex subunit 2B
SNP_24881_A_27512648	NC_021163.1	Ca_Kabuli_Chr04	27512648	TT	CC	CC	INTERGENIC		
SNP_24882_A_27512703	NC_021163.1	Ca_Kabuli_Chr04	27512703	TT	CC	CC	INTERGENIC		
SNP_24883_A_27512846	NC_021163.1	Ca_Kabuli_Chr04	27512846	GG	TT	TT	INTERGENIC		
SNP_24884_A_27513960	NC_021163.1	Ca_Kabuli_Chr04	27513960	GG	AA	AA	INTERGENIC		
SNP_24885_A_27513962	NC_021163.1	Ca_Kabuli_Chr04	27513962	TT	CC	CC	INTERGENIC		
SNP_24886_A_27513982	NC_021163.1	Ca_Kabuli_Chr04	27513982	AA	GG	GG	INTERGENIC		
SNP_24887_A_27517310	NC_021163.1	Ca_Kabuli_Chr04	27517310	CC	TT	TT	DRR	101489085	uncharacterized LOC101489085
SNP_24888_A_27523296	NC_021163.1	Ca_Kabuli_Chr04	27523296	GG	AA	AA	URR	101489085	uncharacterized LOC101489085
SNP_24890_A_27530375	NC_021163.1	Ca_Kabuli_Chr04	27530375	CC	AA	AA	INTERGENIC		
SNP_24891_A_27532701	NC_021163.1	Ca_Kabuli_Chr04	27532701	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24892_A_27536778	NC_021163.1	Ca_Kabuli_Chr04	27536778	GG	TT	TT	INTERGENIC			
SNP_24893_A_27540062	NC_021163.1	Ca_Kabuli_Chr04	27540062	TT	AA	AA	INTERGENIC			
SNP_24894_A_27545195	NC_021163.1	Ca_Kabuli_Chr04	27545195	AA	CC	CC	INTERGENIC			
SNP_24895_A_27545196	NC_021163.1	Ca_Kabuli_Chr04	27545196	TT	CC	CC	INTERGENIC			
SNP_24896_A_27545242	NC_021163.1	Ca_Kabuli_Chr04	27545242	CC	TT	TT	INTERGENIC			
SNP_24897_A_27545247	NC_021163.1	Ca_Kabuli_Chr04	27545247	CC	TT	TT	INTERGENIC			
SNP_24899_A_27547780	NC_021163.1	Ca_Kabuli_Chr04	27547780	AA	GG	GG	INTERGENIC			
SNP_24901_A_27547906	NC_021163.1	Ca_Kabuli_Chr04	27547906	CC	AA	AA	INTERGENIC			
SNP_24903_A_27548872	NC_021163.1	Ca_Kabuli_Chr04	27548872	CC	AA	AA	INTERGENIC			
SNP_24904_A_27549284	NC_021163.1	Ca_Kabuli_Chr04	27549284	AA	GG	GG	INTERGENIC			
SNP_24905_A_27554405	NC_021163.1	Ca_Kabuli_Chr04	27554405	TT	CC	CC	INTERGENIC			
SNP_24906_A_27554408	NC_021163.1	Ca_Kabuli_Chr04	27554408	TT	CC	CC	INTERGENIC			
SNP_24907_A_27554412	NC_021163.1	Ca_Kabuli_Chr04	27554412	AA	GG	GG	INTERGENIC			
SNP_24908_A_27554429	NC_021163.1	Ca_Kabuli_Chr04	27554429	TT	CC	CC	INTERGENIC			
SNP_24909_A_27554465	NC_021163.1	Ca_Kabuli_Chr04	27554465	CC	TT	TT	INTERGENIC			
SNP_24910_A_27554548	NC_021163.1	Ca_Kabuli_Chr04	27554548	AA	GG	GG	INTERGENIC			
SNP_24911_A_27554579	NC_021163.1	Ca_Kabuli_Chr04	27554579	AA	GG	GG	INTERGENIC			
SNP_24913_A_27554669	NC_021163.1	Ca_Kabuli_Chr04	27554669	GG	TT	TT	INTERGENIC			
SNP_24914_A_27554675	NC_021163.1	Ca_Kabuli_Chr04	27554675	AA	GG	GG	INTERGENIC			
SNP_24915_A_27554681	NC_021163.1	Ca_Kabuli_Chr04	27554681	TT	CC	CC	INTERGENIC			
SNP_24916_A_27554831	NC_021163.1	Ca_Kabuli_Chr04	27554831	TT	CC	CC	INTERGENIC			
SNP_24917_A_27554975	NC_021163.1	Ca_Kabuli_Chr04	27554975	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24918_A_27555581	NC_021163.1	Ca_Kabuli_Chr04	27555581	TT	CC	CC	INTERGENIC			
SNP_24919_A_27555664	NC_021163.1	Ca_Kabuli_Chr04	27555664	CC	AA	AA	INTERGENIC			
SNP_24920_A_27558181	NC_021163.1	Ca_Kabuli_Chr04	27558181	GG	AA	AA	INTERGENIC			
SNP_24921_A_27561737	NC_021163.1	Ca_Kabuli_Chr04	27561737	GG	AA	AA	URR	101491671		uncharacterized LOC101491671
SNP_24922_A_27562427	NC_021163.1	Ca_Kabuli_Chr04	27562427	TT	CC	CC	URR	101491671		uncharacterized LOC101491671
SNP_24923_A_27565132	NC_021163.1	Ca_Kabuli_Chr04	27565132	CC	TT	TT	INTERGENIC			
SNP_24924_A_27567843	NC_021163.1	Ca_Kabuli_Chr04	27567843	CC	TT	TT	INTERGENIC			
SNP_24925_A_27571007	NC_021163.1	Ca_Kabuli_Chr04	27571007	AA	CC	CC	INTERGENIC			
SNP_24926_A_27571161	NC_021163.1	Ca_Kabuli_Chr04	27571161	GG	AA	AA	INTERGENIC			
SNP_24928_A_27575781	NC_021163.1	Ca_Kabuli_Chr04	27575781	AA	GG	GG	INTERGENIC			
SNP_24929_A_27579967	NC_021163.1	Ca_Kabuli_Chr04	27579967	GG	AA	AA	INTERGENIC			
SNP_24930_A_27580012	NC_021163.1	Ca_Kabuli_Chr04	27580012	AA	GG	GG	INTERGENIC			
SNP_24932_A_27583286	NC_021163.1	Ca_Kabuli_Chr04	27583286	AA	GG	GG	INTERGENIC			
SNP_24933_A_27585149	NC_021163.1	Ca_Kabuli_Chr04	27585149	AA	TT	TT	INTERGENIC			
SNP_24934_A_27587074	NC_021163.1	Ca_Kabuli_Chr04	27587074	AA	CC	CC	INTERGENIC			
SNP_24935_A_27587221	NC_021163.1	Ca_Kabuli_Chr04	27587221	GG	AA	AA	INTERGENIC			
SNP_24936_A_27587423	NC_021163.1	Ca_Kabuli_Chr04	27587423	AA	CC	CC	INTERGENIC			
SNP_24937_A_27587446	NC_021163.1	Ca_Kabuli_Chr04	27587446	AA	GG	GG	INTERGENIC			
SNP_24938_A_27588308	NC_021163.1	Ca_Kabuli_Chr04	27588308	GG	AA	AA	INTERGENIC			
SNP_24939_A_27588313	NC_021163.1	Ca_Kabuli_Chr04	27588313	TT	GG	GG	INTERGENIC			
SNP_24942_A_27604761	NC_021163.1	Ca_Kabuli_Chr04	27604761	AA	GG	GG	INTRON	101492315		uncharacterized LOC101492315
SNP_24943_A_27611195	NC_021163.1	Ca_Kabuli_Chr04	27611195	AA	GG	GG	INTRON	101492315		uncharacterized LOC101492315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24944_A_27611445	NC_021163.1	Ca_Kabuli_Chr04	27611445	TT	AA	AA	INTRON	101492315	uncharacterized LOC101492315
SNP_24945_A_27611598	NC_021163.1	Ca_Kabuli_Chr04	27611598	AA	GG	GG	INTRON	101492315	uncharacterized LOC101492315
SNP_24946_A_27622768	NC_021163.1	Ca_Kabuli_Chr04	27622768	CC	TT	TT	INTRON	101489418	uncharacterized LOC101489418
SNP_24947_A_27625368	NC_021163.1	Ca_Kabuli_Chr04	27625368	AA	TT	TT	INTRON	101489418	uncharacterized LOC101489418
SNP_24948_A_27628186	NC_021163.1	Ca_Kabuli_Chr04	27628186	AA	GG	GG	URR	101489418	uncharacterized LOC101489418
SNP_24949_A_27628240	NC_021163.1	Ca_Kabuli_Chr04	27628240	TT	CC	CC	URR	101489418	uncharacterized LOC101489418
SNP_24950_A_27631249	NC_021163.1	Ca_Kabuli_Chr04	27631249	TT	AA	AA	INTERGENIC		
SNP_24951_A_27631660	NC_021163.1	Ca_Kabuli_Chr04	27631660	TT	CC	CC	INTERGENIC		
SNP_24952_A_27631675	NC_021163.1	Ca_Kabuli_Chr04	27631675	CC	TT	TT	INTERGENIC		
SNP_24953_A_27631680	NC_021163.1	Ca_Kabuli_Chr04	27631680	TT	CC	CC	INTERGENIC		
SNP_24954_A_27631922	NC_021163.1	Ca_Kabuli_Chr04	27631922	AA	GG	GG	INTERGENIC		
SNP_24955_A_27631930	NC_021163.1	Ca_Kabuli_Chr04	27631930	AA	GG	GG	INTERGENIC		
SNP_24956_A_27631943	NC_021163.1	Ca_Kabuli_Chr04	27631943	AA	TT	TT	INTERGENIC		
SNP_24957_A_27632026	NC_021163.1	Ca_Kabuli_Chr04	27632026	TT	CC	CC	INTERGENIC		
SNP_24958_A_27632029	NC_021163.1	Ca_Kabuli_Chr04	27632029	TT	GG	GG	INTERGENIC		
SNP_24959_A_27634925	NC_021163.1	Ca_Kabuli_Chr04	27634925	AA	GG	GG	INTERGENIC		
SNP_24960_A_27635193	NC_021163.1	Ca_Kabuli_Chr04	27635193	TT	CC	CC	INTERGENIC		
SNP_24962_A_27637506	NC_021163.1	Ca_Kabuli_Chr04	27637506	TT	AA	AA	INTERGENIC		
SNP_24963_A_27647558	NC_021163.1	Ca_Kabuli_Chr04	27647558	CC	TT	TT	INTERGENIC		
SNP_24964_A_27648022	NC_021163.1	Ca_Kabuli_Chr04	27648022	GG	AA	AA	INTERGENIC		
SNP_24966_A_27653878	NC_021163.1	Ca_Kabuli_Chr04	27653878	AA	GG	GG	INTERGENIC		
SNP_24968_A_27657055	NC_021163.1	Ca_Kabuli_Chr04	27657055	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_24969_A_27657071	NC_021163.1	Ca_Kabuli_Chr04	27657071	TT	GG	GG	INTERGENIC			
SNP_24970_A_27657148	NC_021163.1	Ca_Kabuli_Chr04	27657148	TT	AA	AA	INTERGENIC			
SNP_24971_A_27657272	NC_021163.1	Ca_Kabuli_Chr04	27657272	AA	GG	GG	INTERGENIC			
SNP_24972_A_27659499	NC_021163.1	Ca_Kabuli_Chr04	27659499	AA	GG	GG	DRR	101489738		MATH domain-containing protein At5g43560-like
SNP_24973_A_27674517	NC_021163.1	Ca_Kabuli_Chr04	27674517	CC	TT	TT	URR	101489738		MATH domain-containing protein At5g43560-like
SNP_24974_A_27675479	NC_021163.1	Ca_Kabuli_Chr04	27675479	CC	TT	TT	URR	101489738		MATH domain-containing protein At5g43560-like
SNP_24975_A_27675820	NC_021163.1	Ca_Kabuli_Chr04	27675820	CC	GG	GG	INTERGENIC			
SNP_24976_A_27687134	NC_021163.1	Ca_Kabuli_Chr04	27687134	AA	GG	GG	INTERGENIC			
SNP_24977_A_27687143	NC_021163.1	Ca_Kabuli_Chr04	27687143	AA	GG	GG	INTERGENIC			
SNP_24978_A_27688118	NC_021163.1	Ca_Kabuli_Chr04	27688118	CC	TT	TT	INTERGENIC			
SNP_24979_A_27689605	NC_021163.1	Ca_Kabuli_Chr04	27689605	GG	TT	TT	INTERGENIC			
SNP_24980_A_27690130	NC_021163.1	Ca_Kabuli_Chr04	27690130	TT	CC	CC	INTERGENIC			
SNP_24981_A_27690599	NC_021163.1	Ca_Kabuli_Chr04	27690599	GG	AA	AA	INTERGENIC			
SNP_24982_A_27692897	NC_021163.1	Ca_Kabuli_Chr04	27692897	AA	TT	TT	INTERGENIC			
SNP_24983_A_27695347	NC_021163.1	Ca_Kabuli_Chr04	27695347	CC	GG	GG	INTERGENIC			
SNP_24984_A_27696132	NC_021163.1	Ca_Kabuli_Chr04	27696132	AA	GG	GG	INTERGENIC			
SNP_24985_A_27702143	NC_021163.1	Ca_Kabuli_Chr04	27702143	AA	GG	GG	INTERGENIC			
SNP_24986_A_27703378	NC_021163.1	Ca_Kabuli_Chr04	27703378	AA	TT	TT	INTERGENIC			
SNP_24987_A_27710396	NC_021163.1	Ca_Kabuli_Chr04	27710396	AA	GG	GG	INTERGENIC			
SNP_24988_A_27710474	NC_021163.1	Ca_Kabuli_Chr04	27710474	GG	CC	CC	INTERGENIC			
SNP_24989_A_27715661	NC_021163.1	Ca_Kabuli_Chr04	27715661	AA	GG	GG	INTERGENIC			
SNP_24990_A_27715717	NC_021163.1	Ca_Kabuli_Chr04	27715717	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_24991_A_27720921	NC_021163.1	Ca_Kabuli_Chr04	27720921	TT	CC	CC	INTERGENIC		
SNP_24992_A_27724832	NC_021163.1	Ca_Kabuli_Chr04	27724832	GG	TT	TT	INTERGENIC		
SNP_24993_A_27724894	NC_021163.1	Ca_Kabuli_Chr04	27724894	CC	TT	TT	INTERGENIC		
SNP_24994_A_27724947	NC_021163.1	Ca_Kabuli_Chr04	27724947	GG	CC	CC	INTERGENIC		
SNP_24995_A_27724987	NC_021163.1	Ca_Kabuli_Chr04	27724987	GG	CC	CC	INTERGENIC		
SNP_24996_A_27725196	NC_021163.1	Ca_Kabuli_Chr04	27725196	AA	TT	TT	INTERGENIC		
SNP_24997_A_27725264	NC_021163.1	Ca_Kabuli_Chr04	27725264	TT	CC	CC	INTERGENIC		
SNP_24998_A_27730392	NC_021163.1	Ca_Kabuli_Chr04	27730392	GG	TT	TT	INTRON	101492979	uncharacterized LOC101492979
SNP_24999_A_27731122	NC_021163.1	Ca_Kabuli_Chr04	27731122	AA	GG	GG	URR	101492979	uncharacterized LOC101492979
SNP_25000_A_27731359	NC_021163.1	Ca_Kabuli_Chr04	27731359	CC	AA	AA	URR	101492979	uncharacterized LOC101492979
SNP_25001_A_27731577	NC_021163.1	Ca_Kabuli_Chr04	27731577	AA	GG	GG	URR	101492979	uncharacterized LOC101492979
SNP_25002_A_27731585	NC_021163.1	Ca_Kabuli_Chr04	27731585	GG	TT	TT	URR	101492979	uncharacterized LOC101492979
SNP_25003_A_27733890	NC_021163.1	Ca_Kabuli_Chr04	27733890	CC	TT	TT	INTERGENIC		
SNP_25004_A_27734472	NC_021163.1	Ca_Kabuli_Chr04	27734472	CC	AA	AA	INTERGENIC		
SNP_25005_A_27735338	NC_021163.1	Ca_Kabuli_Chr04	27735338	GG	AA	AA	INTERGENIC		
SNP_25007_A_27739097	NC_021163.1	Ca_Kabuli_Chr04	27739097	CC	TT	TT	INTERGENIC		
SNP_25008_A_27744929	NC_021163.1	Ca_Kabuli_Chr04	27744929	CC	AA	AA	INTERGENIC		
SNP_25009_A_27746551	NC_021163.1	Ca_Kabuli_Chr04	27746551	CC	TT	TT	INTERGENIC		
SNP_25010_A_27746689	NC_021163.1	Ca_Kabuli_Chr04	27746689	CC	TT	TT	INTERGENIC		
SNP_25011_A_27746721	NC_021163.1	Ca_Kabuli_Chr04	27746721	TT	CC	CC	INTERGENIC		
SNP_25012_A_27749992	NC_021163.1	Ca_Kabuli_Chr04	27749992	AA	GG	GG	INTERGENIC		
SNP_25013_A_27750371	NC_021163.1	Ca_Kabuli_Chr04	27750371	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25014_A_27752848	NC_021163.1	Ca_Kabuli_Chr04	27752848	CC	TT	TT	INTERGENIC			
SNP_25015_A_27752949	NC_021163.1	Ca_Kabuli_Chr04	27752949	CC	GG	GG	INTERGENIC			
SNP_25016_A_27753296	NC_021163.1	Ca_Kabuli_Chr04	27753296	AA	TT	TT	INTERGENIC			
SNP_25017_A_27762211	NC_021163.1	Ca_Kabuli_Chr04	27762211	TT	GG	GG	INTERGENIC			
SNP_25018_A_27801321	NC_021163.1	Ca_Kabuli_Chr04	27801321	TT	CC	CC	INTERGENIC			
SNP_25019_A_27803160	NC_021163.1	Ca_Kabuli_Chr04	27803160	TT	CC	CC	INTERGENIC			
SNP_25020_A_27810340	NC_021163.1	Ca_Kabuli_Chr04	27810340	GG	AA	AA	INTERGENIC			
SNP_25022_A_27837312	NC_021163.1	Ca_Kabuli_Chr04	27837312	AA	GG	GG	INTERGENIC			
SNP_25023_A_27843865	NC_021163.1	Ca_Kabuli_Chr04	27843865	GG	AA	AA	INTERGENIC			
SNP_25024_A_27844124	NC_021163.1	Ca_Kabuli_Chr04	27844124	AA	CC	CC	INTERGENIC			
SNP_25025_A_27844147	NC_021163.1	Ca_Kabuli_Chr04	27844147	GG	TT	TT	INTERGENIC			
SNP_25026_A_27852555	NC_021163.1	Ca_Kabuli_Chr04	27852555	GG	CC	CC	INTERGENIC			
SNP_25027_A_27853143	NC_021163.1	Ca_Kabuli_Chr04	27853143	GG	AA	AA	INTERGENIC			
SNP_25028_A_27856629	NC_021163.1	Ca_Kabuli_Chr04	27856629	GG	AA	AA	INTERGENIC			
SNP_25030_A_27861846	NC_021163.1	Ca_Kabuli_Chr04	27861846	AA	TT	TT	INTERGENIC			
SNP_25031_A_27861847	NC_021163.1	Ca_Kabuli_Chr04	27861847	GG	AA	AA	INTERGENIC			
SNP_25032_A_27862465	NC_021163.1	Ca_Kabuli_Chr04	27862465	TT	GG	GG	INTERGENIC			
SNP_25033_A_27863484	NC_021163.1	Ca_Kabuli_Chr04	27863484	CC	AA	AA	INTERGENIC			
SNP_25034_A_27864632	NC_021163.1	Ca_Kabuli_Chr04	27864632	TT	CC	CC	INTERGENIC			
SNP_25037_A_27875128	NC_021163.1	Ca_Kabuli_Chr04	27875128	GG	TT	TT	INTERGENIC			
SNP_25038_A_27876906	NC_021163.1	Ca_Kabuli_Chr04	27876906	CC	AA	AA	INTERGENIC			
SNP_25039_A_27876907	NC_021163.1	Ca_Kabuli_Chr04	27876907	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25041_A_27890810	NC_021163.1	Ca_Kabuli_Chr04	27890810	GG	AA	AA	NON_SYNONYMOUS_CODING	101493951	Unknown function
SNP_25042_A_27896321	NC_021163.1	Ca_Kabuli_Chr04	27896321	GG	AA	AA	INTERGENIC		
SNP_25043_A_27901737	NC_021163.1	Ca_Kabuli_Chr04	27901737	TT	AA	AA	INTERGENIC		
SNP_25044_A_27907822	NC_021163.1	Ca_Kabuli_Chr04	27907822	GG	CC	CC	INTERGENIC		
SNP_25045_A_27910206	NC_021163.1	Ca_Kabuli_Chr04	27910206	TT	CC	CC	INTERGENIC		
SNP_25047_A_27924438	NC_021163.1	Ca_Kabuli_Chr04	27924438	TT	GG	GG	URR	101494278	transcriptional regulator TAC1-like
SNP_25048_A_27926088	NC_021163.1	Ca_Kabuli_Chr04	27926088	AA	GG	GG	INTERGENIC		
SNP_25049_A_27927897	NC_021163.1	Ca_Kabuli_Chr04	27927897	GG	AA	AA	INTERGENIC		
SNP_25050_A_27928746	NC_021163.1	Ca_Kabuli_Chr04	27928746	TT	CC	CC	INTERGENIC		
SNP_25051_A_27928758	NC_021163.1	Ca_Kabuli_Chr04	27928758	GG	TT	TT	INTERGENIC		
SNP_25052_A_27928793	NC_021163.1	Ca_Kabuli_Chr04	27928793	CC	TT	TT	INTERGENIC		
SNP_25053_A_27928804	NC_021163.1	Ca_Kabuli_Chr04	27928804	AA	CC	CC	INTERGENIC		
SNP_25054_A_27928809	NC_021163.1	Ca_Kabuli_Chr04	27928809	CC	AA	AA	INTERGENIC		
SNP_25056_A_27928844	NC_021163.1	Ca_Kabuli_Chr04	27928844	TT	CC	CC	INTERGENIC		
SNP_25057_A_27928869	NC_021163.1	Ca_Kabuli_Chr04	27928869	CC	TT	TT	INTERGENIC		
SNP_25059_A_27928914	NC_021163.1	Ca_Kabuli_Chr04	27928914	TT	AA	AA	INTERGENIC		
SNP_25060_A_27928930	NC_021163.1	Ca_Kabuli_Chr04	27928930	TT	GG	GG	INTERGENIC		
SNP_25061_A_27928936	NC_021163.1	Ca_Kabuli_Chr04	27928936	CC	GG	GG	INTERGENIC		
SNP_25062_A_27928937	NC_021163.1	Ca_Kabuli_Chr04	27928937	CC	TT	TT	INTERGENIC		
SNP_25063_A_27928958	NC_021163.1	Ca_Kabuli_Chr04	27928958	AA	CC	CC	INTERGENIC		
SNP_25065_A_27930479	NC_021163.1	Ca_Kabuli_Chr04	27930479	TT	CC	CC	INTERGENIC		
SNP_25066_A_27930489	NC_021163.1	Ca_Kabuli_Chr04	27930489	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25067_A_27930548	NC_021163.1	Ca_Kabuli_Chr04	27930548	AA	GG	GG	INTERGENIC			
SNP_25068_A_27930558	NC_021163.1	Ca_Kabuli_Chr04	27930558	AA	CC	CC	INTERGENIC			
SNP_25069_A_27930572	NC_021163.1	Ca_Kabuli_Chr04	27930572	TT	CC	CC	INTERGENIC			
SNP_25070_A_27930590	NC_021163.1	Ca_Kabuli_Chr04	27930590	AA	GG	GG	INTERGENIC			
SNP_25071_A_27930596	NC_021163.1	Ca_Kabuli_Chr04	27930596	TT	GG	GG	INTERGENIC			
SNP_25072_A_27943642	NC_021163.1	Ca_Kabuli_Chr04	27943642	CC	TT	TT	INTERGENIC			
SNP_25073_A_27943693	NC_021163.1	Ca_Kabuli_Chr04	27943693	TT	CC	CC	INTERGENIC			
SNP_25076_A_27954781	NC_021163.1	Ca_Kabuli_Chr04	27954781	TT	CC	CC	INTERGENIC			
SNP_25077_A_27956558	NC_021163.1	Ca_Kabuli_Chr04	27956558	AA	GG	GG	INTERGENIC			
SNP_25078_A_27962250	NC_021163.1	Ca_Kabuli_Chr04	27962250	TT	CC	CC	INTERGENIC			
SNP_25079_A_27964661	NC_021163.1	Ca_Kabuli_Chr04	27964661	GG	AA	AA	INTERGENIC			
SNP_25080_A_27965546	NC_021163.1	Ca_Kabuli_Chr04	27965546	TT	CC	CC	INTERGENIC			
SNP_25081_A_27983516	NC_021163.1	Ca_Kabuli_Chr04	27983516	GG	AA	AA	INTERGENIC			
SNP_25082_A_27983785	NC_021163.1	Ca_Kabuli_Chr04	27983785	TT	AA	AA	INTERGENIC			
SNP_25083_A_27992144	NC_021163.1	Ca_Kabuli_Chr04	27992144	TT	CC	CC	INTERGENIC			
SNP_25084_A_27996949	NC_021163.1	Ca_Kabuli_Chr04	27996949	CC	TT	TT	INTERGENIC			
SNP_25085_A_27996958	NC_021163.1	Ca_Kabuli_Chr04	27996958	CC	AA	AA	INTERGENIC			
SNP_25087_A_27997230	NC_021163.1	Ca_Kabuli_Chr04	27997230	CC	TT	TT	INTERGENIC			
SNP_25088_A_27997235	NC_021163.1	Ca_Kabuli_Chr04	27997235	CC	TT	TT	INTERGENIC			
SNP_25089_A_27997243	NC_021163.1	Ca_Kabuli_Chr04	27997243	AA	TT	TT	INTERGENIC			
SNP_25090_A_27997335	NC_021163.1	Ca_Kabuli_Chr04	27997335	CC	TT	TT	INTERGENIC			
SNP_25091_A_27997512	NC_021163.1	Ca_Kabuli_Chr04	27997512	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25092_A_27997527	NC_021163.1	Ca_Kabuli_Chr04	27997527	CC	TT	TT	INTERGENIC			
SNP_25093_A_27997536	NC_021163.1	Ca_Kabuli_Chr04	27997536	AA	TT	TT	INTERGENIC			
SNP_25094_A_27997538	NC_021163.1	Ca_Kabuli_Chr04	27997538	TT	GG	GG	INTERGENIC			
SNP_25095_A_27997568	NC_021163.1	Ca_Kabuli_Chr04	27997568	TT	CC	CC	INTERGENIC			
SNP_25096_A_27997595	NC_021163.1	Ca_Kabuli_Chr04	27997595	AA	GG	GG	INTERGENIC			
SNP_25097_A_28013390	NC_021163.1	Ca_Kabuli_Chr04	28013390	TT	GG	GG	INTERGENIC			
SNP_25098_A_28013393	NC_021163.1	Ca_Kabuli_Chr04	28013393	GG	AA	AA	INTERGENIC			
SNP_25099_A_28013429	NC_021163.1	Ca_Kabuli_Chr04	28013429	AA	TT	TT	INTERGENIC			
SNP_25101_A_28019122	NC_021163.1	Ca_Kabuli_Chr04	28019122	TT	AA	AA	INTERGENIC			
SNP_25102_A_28019171	NC_021163.1	Ca_Kabuli_Chr04	28019171	GG	CC	CC	INTERGENIC			
SNP_25103_A_28021094	NC_021163.1	Ca_Kabuli_Chr04	28021094	GG	AA	AA	INTERGENIC			
SNP_25104_A_28021116	NC_021163.1	Ca_Kabuli_Chr04	28021116	AA	GG	GG	INTERGENIC			
SNP_25105_A_28021128	NC_021163.1	Ca_Kabuli_Chr04	28021128	AA	CC	CC	INTERGENIC			
SNP_25106_A_28021130	NC_021163.1	Ca_Kabuli_Chr04	28021130	GG	TT	TT	INTERGENIC			
SNP_25107_A_28021446	NC_021163.1	Ca_Kabuli_Chr04	28021446	CC	TT	TT	INTERGENIC			
SNP_25108_A_28021466	NC_021163.1	Ca_Kabuli_Chr04	28021466	TT	CC	CC	INTERGENIC			
SNP_25109_A_28021948	NC_021163.1	Ca_Kabuli_Chr04	28021948	AA	GG	GG	INTERGENIC			
SNP_25110_A_28021950	NC_021163.1	Ca_Kabuli_Chr04	28021950	AA	GG	GG	INTERGENIC			
SNP_25111_A_28022319	NC_021163.1	Ca_Kabuli_Chr04	28022319	CC	TT	TT	INTERGENIC			
SNP_25112_A_28024676	NC_021163.1	Ca_Kabuli_Chr04	28024676	CC	GG	GG	INTERGENIC			
SNP_25113_A_28024679	NC_021163.1	Ca_Kabuli_Chr04	28024679	AA	GG	GG	INTERGENIC			
SNP_25114_A_28026947	NC_021163.1	Ca_Kabuli_Chr04	28026947	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25115_A_28026960	NC_021163.1	Ca_Kabuli_Chr04	28026960	CC	TT	TT	INTERGENIC			
SNP_25116_A_28027003	NC_021163.1	Ca_Kabuli_Chr04	28027003	GG	AA	AA	INTERGENIC			
SNP_25117_A_28027030	NC_021163.1	Ca_Kabuli_Chr04	28027030	AA	TT	TT	INTERGENIC			
SNP_25118_A_28027040	NC_021163.1	Ca_Kabuli_Chr04	28027040	TT	GG	GG	INTERGENIC			
SNP_25119_A_28027043	NC_021163.1	Ca_Kabuli_Chr04	28027043	AA	CC	CC	INTERGENIC			
SNP_25120_A_28027049	NC_021163.1	Ca_Kabuli_Chr04	28027049	GG	TT	TT	INTERGENIC			
SNP_25121_A_28027167	NC_021163.1	Ca_Kabuli_Chr04	28027167	GG	TT	TT	INTERGENIC			
SNP_25122_A_28027173	NC_021163.1	Ca_Kabuli_Chr04	28027173	AA	GG	GG	INTERGENIC			
SNP_25123_A_28027209	NC_021163.1	Ca_Kabuli_Chr04	28027209	GG	AA	AA	INTERGENIC			
SNP_25124_A_28027233	NC_021163.1	Ca_Kabuli_Chr04	28027233	TT	GG	GG	INTERGENIC			
SNP_25125_A_28027454	NC_021163.1	Ca_Kabuli_Chr04	28027454	CC	TT	TT	INTERGENIC			
SNP_25126_A_28034970	NC_021163.1	Ca_Kabuli_Chr04	28034970	TT	CC	CC	INTERGENIC			
SNP_25127_A_28035044	NC_021163.1	Ca_Kabuli_Chr04	28035044	TT	GG	GG	INTERGENIC			
SNP_25128_A_28035330	NC_021163.1	Ca_Kabuli_Chr04	28035330	AA	TT	TT	INTERGENIC			
SNP_25129_A_28041841	NC_021163.1	Ca_Kabuli_Chr04	28041841	TT	GG	GG	INTERGENIC			
SNP_25130_A_28042214	NC_021163.1	Ca_Kabuli_Chr04	28042214	AA	GG	GG	INTERGENIC			
SNP_25131_A_28042217	NC_021163.1	Ca_Kabuli_Chr04	28042217	CC	TT	TT	INTERGENIC			
SNP_25132_A_28042250	NC_021163.1	Ca_Kabuli_Chr04	28042250	AA	GG	GG	INTERGENIC			
SNP_25133_A_28042439	NC_021163.1	Ca_Kabuli_Chr04	28042439	TT	AA	AA	INTERGENIC			
SNP_25134_A_28042442	NC_021163.1	Ca_Kabuli_Chr04	28042442	GG	TT	TT	INTERGENIC			
SNP_25135_A_28042454	NC_021163.1	Ca_Kabuli_Chr04	28042454	CC	TT	TT	INTERGENIC			
SNP_25137_A_28042525	NC_021163.1	Ca_Kabuli_Chr04	28042525	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25138_A_28042938	NC_021163.1	Ca_Kabuli_Chr04	28042938	GG	AA	AA	INTERGENIC			
SNP_25139_A_28043120	NC_021163.1	Ca_Kabuli_Chr04	28043120	GG	AA	AA	INTERGENIC			
SNP_25140_A_28043128	NC_021163.1	Ca_Kabuli_Chr04	28043128	AA	GG	GG	INTERGENIC			
SNP_25141_A_28043182	NC_021163.1	Ca_Kabuli_Chr04	28043182	CC	GG	GG	INTERGENIC			
SNP_25142_A_28043554	NC_021163.1	Ca_Kabuli_Chr04	28043554	CC	TT	TT	INTERGENIC			
SNP_25143_A_28043725	NC_021163.1	Ca_Kabuli_Chr04	28043725	TT	AA	AA	INTERGENIC			
SNP_25144_A_28043762	NC_021163.1	Ca_Kabuli_Chr04	28043762	AA	GG	GG	INTERGENIC			
SNP_25145_A_28043764	NC_021163.1	Ca_Kabuli_Chr04	28043764	GG	TT	TT	INTERGENIC			
SNP_25146_A_28043771	NC_021163.1	Ca_Kabuli_Chr04	28043771	TT	CC	CC	INTERGENIC			
SNP_25147_A_28045413	NC_021163.1	Ca_Kabuli_Chr04	28045413	CC	TT	TT	INTERGENIC			
SNP_25148_A_28045426	NC_021163.1	Ca_Kabuli_Chr04	28045426	GG	CC	CC	INTERGENIC			
SNP_25149_A_28045722	NC_021163.1	Ca_Kabuli_Chr04	28045722	GG	AA	AA	INTERGENIC			
SNP_25150_A_28046780	NC_021163.1	Ca_Kabuli_Chr04	28046780	CC	AA	AA	INTERGENIC			
SNP_25151_A_28050881	NC_021163.1	Ca_Kabuli_Chr04	28050881	CC	AA	AA	INTERGENIC			
SNP_25152_A_28052480	NC_021163.1	Ca_Kabuli_Chr04	28052480	GG	TT	TT	INTERGENIC			
SNP_25153_A_28053023	NC_021163.1	Ca_Kabuli_Chr04	28053023	GG	AA	AA	INTERGENIC			
SNP_25154_A_28053240	NC_021163.1	Ca_Kabuli_Chr04	28053240	TT	CC	CC	INTERGENIC			
SNP_25155_A_28054620	NC_021163.1	Ca_Kabuli_Chr04	28054620	TT	CC	CC	INTERGENIC			
SNP_25156_A_28054799	NC_021163.1	Ca_Kabuli_Chr04	28054799	TT	GG	GG	INTERGENIC			
SNP_25157_A_28055709	NC_021163.1	Ca_Kabuli_Chr04	28055709	AA	GG	GG	INTERGENIC			
SNP_25158_A_28057433	NC_021163.1	Ca_Kabuli_Chr04	28057433	CC	GG	GG	INTERGENIC			
SNP_25159_A_28057441	NC_021163.1	Ca_Kabuli_Chr04	28057441	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25160_A_28059653	NC_021163.1	Ca_Kabuli_Chr04	28059653	AA	GG	GG	DRR	101494588	Unknown function
SNP_25161_A_28061983	NC_021163.1	Ca_Kabuli_Chr04	28061983	TT	CC	CC	URR	101494588	Unknown function
SNP_25162_A_28062097	NC_021163.1	Ca_Kabuli_Chr04	28062097	CC	AA	AA	URR	101494588	Unknown function
SNP_25163_A_28063377	NC_021163.1	Ca_Kabuli_Chr04	28063377	GG	AA	AA	INTERGENIC		
SNP_25164_A_28066160	NC_021163.1	Ca_Kabuli_Chr04	28066160	TT	CC	CC	INTRON	101498939	Unknown function
SNP_25165_A_28073450	NC_021163.1	Ca_Kabuli_Chr04	28073450	TT	GG	GG	INTERGENIC		
SNP_25166_A_28075664	NC_021163.1	Ca_Kabuli_Chr04	28075664	CC	TT	TT	INTERGENIC		
SNP_25167_A_28089178	NC_021163.1	Ca_Kabuli_Chr04	28089178	GG	AA	AA	INTERGENIC		
SNP_25168_A_28092867	NC_021163.1	Ca_Kabuli_Chr04	28092867	TT	GG	GG	INTERGENIC		
SNP_25170_A_28100807	NC_021163.1	Ca_Kabuli_Chr04	28100807	GG	AA	AA	INTRON	101499265	uncharacterized LOC101499265
SNP_25171_A_28101520	NC_021163.1	Ca_Kabuli_Chr04	28101520	CC	AA	AA	INTRON	101499265	uncharacterized LOC101499265
SNP_25172_A_28101540	NC_021163.1	Ca_Kabuli_Chr04	28101540	CC	AA	AA	INTRON	101499265	uncharacterized LOC101499265
SNP_25173_A_28101918	NC_021163.1	Ca_Kabuli_Chr04	28101918	GG	AA	AA	INTRON	101499265	uncharacterized LOC101499265
SNP_25176_A_28119542	NC_021163.1	Ca_Kabuli_Chr04	28119542	CC	TT	TT	INTERGENIC		
SNP_25179_A_28122480	NC_021163.1	Ca_Kabuli_Chr04	28122480	GG	AA	AA	INTERGENIC		
SNP_25181_A_28123621	NC_021163.1	Ca_Kabuli_Chr04	28123621	AA	TT	TT	INTERGENIC		
SNP_25182_A_28124815	NC_021163.1	Ca_Kabuli_Chr04	28124815	AA	TT	TT	DRR	101495548	transcription factor bHLH104-like
SNP_25183_A_28132157	NC_021163.1	Ca_Kabuli_Chr04	28132157	GG	AA	AA	INTERGENIC		
SNP_25185_A_28139779	NC_021163.1	Ca_Kabuli_Chr04	28139779	CC	AA	AA	INTERGENIC		
SNP_25186_A_28139781	NC_021163.1	Ca_Kabuli_Chr04	28139781	AA	GG	GG	INTERGENIC		
SNP_25187_A_28139795	NC_021163.1	Ca_Kabuli_Chr04	28139795	GG	AA	AA	INTERGENIC		
SNP_25188_A_28139797	NC_021163.1	Ca_Kabuli_Chr04	28139797	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25189_A_28139838	NC_021163.1	Ca_Kabuli_Chr04	28139838	TT	CC	CC	INTERGENIC			
SNP_25190_A_28139930	NC_021163.1	Ca_Kabuli_Chr04	28139930	CC	AA	AA	INTERGENIC			
SNP_25191_A_28139968	NC_021163.1	Ca_Kabuli_Chr04	28139968	GG	TT	TT	INTERGENIC			
SNP_25192_A_28140018	NC_021163.1	Ca_Kabuli_Chr04	28140018	CC	AA	AA	INTERGENIC			
SNP_25193_A_28140051	NC_021163.1	Ca_Kabuli_Chr04	28140051	CC	GG	GG	INTERGENIC			
SNP_25194_A_28140073	NC_021163.1	Ca_Kabuli_Chr04	28140073	AA	GG	GG	INTERGENIC			
SNP_25195_A_28140074	NC_021163.1	Ca_Kabuli_Chr04	28140074	GG	TT	TT	INTERGENIC			
SNP_25196_A_28140090	NC_021163.1	Ca_Kabuli_Chr04	28140090	TT	CC	CC	INTERGENIC			
SNP_25197_A_28140094	NC_021163.1	Ca_Kabuli_Chr04	28140094	TT	CC	CC	INTERGENIC			
SNP_25198_A_28140170	NC_021163.1	Ca_Kabuli_Chr04	28140170	GG	TT	TT	INTERGENIC			
SNP_25199_A_28140226	NC_021163.1	Ca_Kabuli_Chr04	28140226	AA	GG	GG	INTERGENIC			
SNP_25200_A_28140234	NC_021163.1	Ca_Kabuli_Chr04	28140234	GG	AA	AA	INTERGENIC			
SNP_25201_A_28140309	NC_021163.1	Ca_Kabuli_Chr04	28140309	CC	TT	TT	INTERGENIC			
SNP_25202_A_28140331	NC_021163.1	Ca_Kabuli_Chr04	28140331	TT	CC	CC	INTERGENIC			
SNP_25203_A_28144941	NC_021163.1	Ca_Kabuli_Chr04	28144941	TT	CC	CC	INTERGENIC			
SNP_25204_A_28144968	NC_021163.1	Ca_Kabuli_Chr04	28144968	AA	TT	TT	INTERGENIC			
SNP_25205_A_28144990	NC_021163.1	Ca_Kabuli_Chr04	28144990	AA	GG	GG	INTERGENIC			
SNP_25206_A_28145310	NC_021163.1	Ca_Kabuli_Chr04	28145310	TT	CC	CC	INTERGENIC			
SNP_25207_A_28145351	NC_021163.1	Ca_Kabuli_Chr04	28145351	GG	AA	AA	INTERGENIC			
SNP_25208_A_28145378	NC_021163.1	Ca_Kabuli_Chr04	28145378	GG	AA	AA	INTERGENIC			
SNP_25210_A_28151113	NC_021163.1	Ca_Kabuli_Chr04	28151113	TT	CC	CC	INTERGENIC			
SNP_25211_A_28151406	NC_021163.1	Ca_Kabuli_Chr04	28151406	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25212_A_28151729	NC_021163.1	Ca_Kabuli_Chr04	28151729	TT	CC	CC	INTERGENIC			
SNP_25213_A_28152415	NC_021163.1	Ca_Kabuli_Chr04	28152415	CC	TT	TT	INTERGENIC			
SNP_25214_A_28152462	NC_021163.1	Ca_Kabuli_Chr04	28152462	GG	CC	CC	INTERGENIC			
SNP_25217_A_28160031	NC_021163.1	Ca_Kabuli_Chr04	28160031	GG	AA	AA	INTERGENIC			
SNP_25218_A_28160041	NC_021163.1	Ca_Kabuli_Chr04	28160041	AA	GG	GG	INTERGENIC			
SNP_25219_A_28160163	NC_021163.1	Ca_Kabuli_Chr04	28160163	AA	CC	CC	INTERGENIC			
SNP_25220_A_28160339	NC_021163.1	Ca_Kabuli_Chr04	28160339	AA	TT	TT	INTERGENIC			
SNP_25221_A_28160341	NC_021163.1	Ca_Kabuli_Chr04	28160341	TT	AA	AA	INTERGENIC			
SNP_25223_A_28160454	NC_021163.1	Ca_Kabuli_Chr04	28160454	TT	CC	CC	INTERGENIC			
SNP_25224_A_28160464	NC_021163.1	Ca_Kabuli_Chr04	28160464	CC	TT	TT	INTERGENIC			
SNP_25225_A_28162300	NC_021163.1	Ca_Kabuli_Chr04	28162300	CC	AA	AA	INTERGENIC			
SNP_25226_A_28162488	NC_021163.1	Ca_Kabuli_Chr04	28162488	AA	TT	TT	INTERGENIC			
SNP_25227_A_28162562	NC_021163.1	Ca_Kabuli_Chr04	28162562	GG	AA	AA	INTERGENIC			
SNP_25228_A_28167173	NC_021163.1	Ca_Kabuli_Chr04	28167173	GG	AA	AA	INTERGENIC			
SNP_25229_A_28168989	NC_021163.1	Ca_Kabuli_Chr04	28168989	AA	GG	GG	INTERGENIC			
SNP_25230_A_28168994	NC_021163.1	Ca_Kabuli_Chr04	28168994	AA	CC	CC	INTERGENIC			
SNP_25231_A_28168998	NC_021163.1	Ca_Kabuli_Chr04	28168998	TT	GG	GG	INTERGENIC			
SNP_25232_A_28171054	NC_021163.1	Ca_Kabuli_Chr04	28171054	TT	AA	AA	INTERGENIC			
SNP_25233_A_28171063	NC_021163.1	Ca_Kabuli_Chr04	28171063	AA	GG	GG	INTERGENIC			
SNP_25234_A_28171134	NC_021163.1	Ca_Kabuli_Chr04	28171134	TT	AA	AA	INTERGENIC			
SNP_25235_A_28175294	NC_021163.1	Ca_Kabuli_Chr04	28175294	GG	AA	AA	INTERGENIC			
SNP_25236_A_28176480	NC_021163.1	Ca_Kabuli_Chr04	28176480	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25237_A_28178322	NC_021163.1	Ca_Kabuli_Chr04	28178322	TT	CC	CC	INTERGENIC			
SNP_25238_A_28178352	NC_021163.1	Ca_Kabuli_Chr04	28178352	TT	CC	CC	INTERGENIC			
SNP_25239_A_28179352	NC_021163.1	Ca_Kabuli_Chr04	28179352	CC	AA	AA	INTERGENIC			
SNP_25240_A_28179560	NC_021163.1	Ca_Kabuli_Chr04	28179560	TT	CC	CC	INTERGENIC			
SNP_25242_A_28179859	NC_021163.1	Ca_Kabuli_Chr04	28179859	CC	TT	TT	INTERGENIC			
SNP_25244_A_28180114	NC_021163.1	Ca_Kabuli_Chr04	28180114	GG	AA	AA	INTERGENIC			
SNP_25245_A_28180155	NC_021163.1	Ca_Kabuli_Chr04	28180155	AA	TT	TT	INTERGENIC			
SNP_25246_A_28180218	NC_021163.1	Ca_Kabuli_Chr04	28180218	GG	TT	TT	INTERGENIC			
SNP_25247_A_28180402	NC_021163.1	Ca_Kabuli_Chr04	28180402	AA	GG	GG	INTERGENIC			
SNP_25248_A_28182098	NC_021163.1	Ca_Kabuli_Chr04	28182098	TT	AA	AA	INTERGENIC			
SNP_25249_A_28182209	NC_021163.1	Ca_Kabuli_Chr04	28182209	AA	CC	CC	INTERGENIC			
SNP_25251_A_28183460	NC_021163.1	Ca_Kabuli_Chr04	28183460	AA	GG	GG	INTERGENIC			
SNP_25252_A_28183480	NC_021163.1	Ca_Kabuli_Chr04	28183480	AA	TT	TT	INTERGENIC			
SNP_25253_A_28184239	NC_021163.1	Ca_Kabuli_Chr04	28184239	TT	GG	GG	INTERGENIC			
SNP_25254_A_28184320	NC_021163.1	Ca_Kabuli_Chr04	28184320	GG	TT	TT	INTERGENIC			
SNP_25255_A_28184532	NC_021163.1	Ca_Kabuli_Chr04	28184532	AA	GG	GG	INTERGENIC			
SNP_25257_A_28202501	NC_021163.1	Ca_Kabuli_Chr04	28202501	AA	CC	CC	SYNONYMOUS_CODING	101496212		ethylene-responsive transcription factor 1B-like
SNP_25258_A_28202994	NC_021163.1	Ca_Kabuli_Chr04	28202994	CC	TT	TT	DRR	101496212		ethylene-responsive transcription factor 1B-like
SNP_25259_A_28206945	NC_021163.1	Ca_Kabuli_Chr04	28206945	CC	TT	TT	INTERGENIC			
SNP_25260_A_28207426	NC_021163.1	Ca_Kabuli_Chr04	28207426	TT	GG	GG	INTERGENIC			
SNP_25262_A_28212156	NC_021163.1	Ca_Kabuli_Chr04	28212156	CC	TT	TT	INTERGENIC			
SNP_25263_A_28213443	NC_021163.1	Ca_Kabuli_Chr04	28213443	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25264_A_28235600	NC_021163.1	Ca_Kabuli_Chr04	28235600	CC	AA	AA	INTERGENIC			
SNP_25265_A_28235615	NC_021163.1	Ca_Kabuli_Chr04	28235615	AA	CC	CC	INTERGENIC			
SNP_25266_A_28235835	NC_021163.1	Ca_Kabuli_Chr04	28235835	CC	AA	AA	INTERGENIC			
SNP_25267_A_28235845	NC_021163.1	Ca_Kabuli_Chr04	28235845	GG	CC	CC	INTERGENIC			
SNP_25268_A_28235852	NC_021163.1	Ca_Kabuli_Chr04	28235852	AA	GG	GG	INTERGENIC			
SNP_25269_A_28235881	NC_021163.1	Ca_Kabuli_Chr04	28235881	AA	GG	GG	INTERGENIC			
SNP_25270_A_28235891	NC_021163.1	Ca_Kabuli_Chr04	28235891	AA	TT	TT	INTERGENIC			
SNP_25271_A_28235924	NC_021163.1	Ca_Kabuli_Chr04	28235924	TT	CC	CC	INTERGENIC			
SNP_25272_A_28235941	NC_021163.1	Ca_Kabuli_Chr04	28235941	AA	GG	GG	INTERGENIC			
SNP_25273_A_28239091	NC_021163.1	Ca_Kabuli_Chr04	28239091	CC	TT	TT	INTERGENIC			
SNP_25274_A_28239098	NC_021163.1	Ca_Kabuli_Chr04	28239098	GG	TT	TT	INTERGENIC			
SNP_25275_A_28239099	NC_021163.1	Ca_Kabuli_Chr04	28239099	CC	GG	GG	INTERGENIC			
SNP_25276_A_28239105	NC_021163.1	Ca_Kabuli_Chr04	28239105	CC	AA	AA	INTERGENIC			
SNP_25277_A_28239115	NC_021163.1	Ca_Kabuli_Chr04	28239115	TT	GG	GG	INTERGENIC			
SNP_25278_A_28239123	NC_021163.1	Ca_Kabuli_Chr04	28239123	CC	AA	AA	INTERGENIC			
SNP_25279_A_28242459	NC_021163.1	Ca_Kabuli_Chr04	28242459	CC	TT	TT	INTERGENIC			
SNP_25280_A_28246772	NC_021163.1	Ca_Kabuli_Chr04	28246772	TT	GG	GG	INTERGENIC			
SNP_25281_A_28247059	NC_021163.1	Ca_Kabuli_Chr04	28247059	GG	AA	AA	INTERGENIC			
SNP_25283_A_28263977	NC_021163.1	Ca_Kabuli_Chr04	28263977	GG	AA	AA	INTERGENIC			
SNP_25284_A_28266562	NC_021163.1	Ca_Kabuli_Chr04	28266562	TT	AA	AA	DRR	101501179	Unknown function	
SNP_25285_A_28274059	NC_021163.1	Ca_Kabuli_Chr04	28274059	GG	AA	AA	INTERGENIC			
SNP_25287_A_28276221	NC_021163.1	Ca_Kabuli_Chr04	28276221	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25288_A_28276232	NC_021163.1	Ca_Kabuli_Chr04	28276232	TT	CC	CC	INTERGENIC		
SNP_25289_A_28276576	NC_021163.1	Ca_Kabuli_Chr04	28276576	TT	GG	GG	INTERGENIC		
SNP_25290_A_28276587	NC_021163.1	Ca_Kabuli_Chr04	28276587	GG	AA	AA	INTERGENIC		
SNP_25291_A_28276591	NC_021163.1	Ca_Kabuli_Chr04	28276591	CC	TT	TT	INTERGENIC		
SNP_25292_A_28276596	NC_021163.1	Ca_Kabuli_Chr04	28276596	AA	TT	TT	INTERGENIC		
SNP_25293_A_28276600	NC_021163.1	Ca_Kabuli_Chr04	28276600	AA	TT	TT	INTERGENIC		
SNP_25294_A_28276616	NC_021163.1	Ca_Kabuli_Chr04	28276616	AA	GG	GG	INTERGENIC		
SNP_25295_A_28277250	NC_021163.1	Ca_Kabuli_Chr04	28277250	TT	GG	GG	INTERGENIC		
SNP_25296_A_28277618	NC_021163.1	Ca_Kabuli_Chr04	28277618	TT	AA	AA	INTERGENIC		
SNP_25297_A_28277621	NC_021163.1	Ca_Kabuli_Chr04	28277621	AA	GG	GG	INTERGENIC		
SNP_25299_A_28282508	NC_021163.1	Ca_Kabuli_Chr04	28282508	AA	GG	GG	URR	101496537	serine/threonine-protein phosphatase PP1-like
SNP_25300_A_28282630	NC_021163.1	Ca_Kabuli_Chr04	28282630	GG	AA	AA	URR	101496537	serine/threonine-protein phosphatase PP1-like
SNP_25301_A_28282865	NC_021163.1	Ca_Kabuli_Chr04	28282865	GG	TT	TT	URR	101496537	serine/threonine-protein phosphatase PP1-like
SNP_25302_A_28282869	NC_021163.1	Ca_Kabuli_Chr04	28282869	TT	CC	CC	URR	101496537	serine/threonine-protein phosphatase PP1-like
SNP_25303_A_28285600	NC_021163.1	Ca_Kabuli_Chr04	28285600	GG	AA	AA	INTERGENIC		
SNP_25304_A_28285904	NC_021163.1	Ca_Kabuli_Chr04	28285904	TT	CC	CC	INTERGENIC		
SNP_25305_A_28288875	NC_021163.1	Ca_Kabuli_Chr04	28288875	GG	AA	AA	INTERGENIC		
SNP_25306_A_28289227	NC_021163.1	Ca_Kabuli_Chr04	28289227	AA	GG	GG	INTERGENIC		
SNP_25307_A_28289416	NC_021163.1	Ca_Kabuli_Chr04	28289416	CC	TT	TT	INTERGENIC		
SNP_25308_A_28290409	NC_021163.1	Ca_Kabuli_Chr04	28290409	TT	CC	CC	INTERGENIC		
SNP_25309_A_28290809	NC_021163.1	Ca_Kabuli_Chr04	28290809	TT	AA	AA	INTERGENIC		
SNP_25310_A_28290896	NC_021163.1	Ca_Kabuli_Chr04	28290896	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25312_A_28314924	NC_021163.1	Ca_Kabuli_Chr04	28314924	TT	CC	CC	INTERGENIC			
SNP_25313_A_28315035	NC_021163.1	Ca_Kabuli_Chr04	28315035	AA	GG	GG	INTERGENIC			
SNP_25314_A_28315224	NC_021163.1	Ca_Kabuli_Chr04	28315224	TT	CC	CC	INTERGENIC			
SNP_25315_A_28315240	NC_021163.1	Ca_Kabuli_Chr04	28315240	AA	GG	GG	INTERGENIC			
SNP_25316_A_28317701	NC_021163.1	Ca_Kabuli_Chr04	28317701	GG	AA	AA	INTERGENIC			
SNP_25317_A_28317725	NC_021163.1	Ca_Kabuli_Chr04	28317725	CC	TT	TT	INTERGENIC			
SNP_25318_A_28318587	NC_021163.1	Ca_Kabuli_Chr04	28318587	CC	GG	GG	INTERGENIC			
SNP_25320_A_28322708	NC_021163.1	Ca_Kabuli_Chr04	28322708	CC	TT	TT	INTERGENIC			
SNP_25321_A_28322733	NC_021163.1	Ca_Kabuli_Chr04	28322733	CC	TT	TT	INTERGENIC			
SNP_25322_A_28330245	NC_021163.1	Ca_Kabuli_Chr04	28330245	AA	CC	CC	INTERGENIC			
SNP_25323_A_28330904	NC_021163.1	Ca_Kabuli_Chr04	28330904	GG	TT	TT	INTERGENIC			
SNP_25325_A_28331319	NC_021163.1	Ca_Kabuli_Chr04	28331319	TT	AA	AA	INTERGENIC			
SNP_25326_A_28334415	NC_021163.1	Ca_Kabuli_Chr04	28334415	TT	CC	CC	INTERGENIC			
SNP_25327_A_28336192	NC_021163.1	Ca_Kabuli_Chr04	28336192	TT	AA	AA	INTERGENIC			
SNP_25328_A_28336438	NC_021163.1	Ca_Kabuli_Chr04	28336438	AA	GG	GG	INTERGENIC			
SNP_25330_A_28337372	NC_021163.1	Ca_Kabuli_Chr04	28337372	CC	TT	TT	INTERGENIC			
SNP_25331_A_28337667	NC_021163.1	Ca_Kabuli_Chr04	28337667	AA	GG	GG	INTERGENIC			
SNP_25332_A_28337831	NC_021163.1	Ca_Kabuli_Chr04	28337831	AA	GG	GG	INTERGENIC			
SNP_25333_A_28338095	NC_021163.1	Ca_Kabuli_Chr04	28338095	TT	GG	GG	INTERGENIC			
SNP_25335_A_28339959	NC_021163.1	Ca_Kabuli_Chr04	28339959	AA	TT	TT	INTERGENIC			
SNP_25336_A_28340192	NC_021163.1	Ca_Kabuli_Chr04	28340192	CC	AA	AA	INTERGENIC			
SNP_25337_A_28340316	NC_021163.1	Ca_Kabuli_Chr04	28340316	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25338_A_28340736	NC_021163.1	Ca_Kabuli_Chr04	28340736	AA	GG	GG	INTERGENIC			
SNP_25339_A_28340956	NC_021163.1	Ca_Kabuli_Chr04	28340956	AA	TT	TT	INTERGENIC			
SNP_25340_A_28342625	NC_021163.1	Ca_Kabuli_Chr04	28342625	AA	GG	GG	INTERGENIC			
SNP_25342_A_28343097	NC_021163.1	Ca_Kabuli_Chr04	28343097	GG	AA	AA	INTERGENIC			
SNP_25343_A_28343496	NC_021163.1	Ca_Kabuli_Chr04	28343496	AA	GG	GG	INTERGENIC			
SNP_25344_A_28344282	NC_021163.1	Ca_Kabuli_Chr04	28344282	GG	TT	TT	INTERGENIC			
SNP_25345_A_28344284	NC_021163.1	Ca_Kabuli_Chr04	28344284	CC	TT	TT	INTERGENIC			
SNP_25346_A_28345953	NC_021163.1	Ca_Kabuli_Chr04	28345953	GG	AA	AA	INTERGENIC			
SNP_25348_A_28346711	NC_021163.1	Ca_Kabuli_Chr04	28346711	AA	TT	TT	INTERGENIC			
SNP_25349_A_28347578	NC_021163.1	Ca_Kabuli_Chr04	28347578	CC	TT	TT	INTERGENIC			
SNP_25350_A_28351919	NC_021163.1	Ca_Kabuli_Chr04	28351919	TT	CC	CC	INTERGENIC			
SNP_25351_A_28352009	NC_021163.1	Ca_Kabuli_Chr04	28352009	CC	AA	AA	INTERGENIC			
SNP_25352_A_28352034	NC_021163.1	Ca_Kabuli_Chr04	28352034	GG	AA	AA	INTERGENIC			
SNP_25354_A_28352979	NC_021163.1	Ca_Kabuli_Chr04	28352979	CC	TT	TT	INTERGENIC			
SNP_25355_A_28352991	NC_021163.1	Ca_Kabuli_Chr04	28352991	AA	GG	GG	INTERGENIC			
SNP_25356_A_28356339	NC_021163.1	Ca_Kabuli_Chr04	28356339	CC	TT	TT	INTERGENIC			
SNP_25357_A_28357937	NC_021163.1	Ca_Kabuli_Chr04	28357937	CC	TT	TT	INTERGENIC			
SNP_25358_A_28358293	NC_021163.1	Ca_Kabuli_Chr04	28358293	GG	AA	AA	INTERGENIC			
SNP_25359_A_28358422	NC_021163.1	Ca_Kabuli_Chr04	28358422	CC	GG	GG	INTERGENIC			
SNP_25360_A_28358561	NC_021163.1	Ca_Kabuli_Chr04	28358561	TT	GG	GG	INTERGENIC			
SNP_25361_A_28358587	NC_021163.1	Ca_Kabuli_Chr04	28358587	AA	TT	TT	INTERGENIC			
SNP_25362_A_28358952	NC_021163.1	Ca_Kabuli_Chr04	28358952	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25363_A_28363615	NC_021163.1	Ca_Kabuli_Chr04	28363615	GG	AA	AA	URR	101497945	myb-related protein Myb4-like
SNP_25364_A_28363621	NC_021163.1	Ca_Kabuli_Chr04	28363621	CC	TT	TT	URR	101497945	myb-related protein Myb4-like
SNP_25365_A_28363945	NC_021163.1	Ca_Kabuli_Chr04	28363945	CC	GG	GG	URR	101497945	myb-related protein Myb4-like
SNP_25366_A_28364769	NC_021163.1	Ca_Kabuli_Chr04	28364769	GG	AA	AA	INTERGENIC		
SNP_25370_A_28372886	NC_021163.1	Ca_Kabuli_Chr04	28372886	GG	TT	TT	INTERGENIC		
SNP_25371_A_28375006	NC_021163.1	Ca_Kabuli_Chr04	28375006	CC	GG	GG	DRR	101498271	malate dehydrogenase, cytoplasmic-like
SNP_25372_A_28375268	NC_021163.1	Ca_Kabuli_Chr04	28375268	AA	GG	GG	DRR	101498271	malate dehydrogenase, cytoplasmic-like
SNP_25373_A_28380264	NC_021163.1	Ca_Kabuli_Chr04	28380264	TT	GG	GG	URR	101498271	malate dehydrogenase, cytoplasmic-like
SNP_25374_A_28380278	NC_021163.1	Ca_Kabuli_Chr04	28380278	TT	GG	GG	URR	101498271	malate dehydrogenase, cytoplasmic-like
SNP_25376_A_28380629	NC_021163.1	Ca_Kabuli_Chr04	28380629	CC	TT	TT	URR	101498271	malate dehydrogenase, cytoplasmic-like
SNP_25377_A_28384832	NC_021163.1	Ca_Kabuli_Chr04	28384832	AA	GG	GG	INTERGENIC		
SNP_25378_A_28384849	NC_021163.1	Ca_Kabuli_Chr04	28384849	AA	GG	GG	INTERGENIC		
SNP_25379_A_28385150	NC_021163.1	Ca_Kabuli_Chr04	28385150	TT	CC	CC	INTERGENIC		
SNP_25380_A_28385164	NC_021163.1	Ca_Kabuli_Chr04	28385164	GG	CC	CC	INTERGENIC		
SNP_25381_A_28385206	NC_021163.1	Ca_Kabuli_Chr04	28385206	AA	GG	GG	INTERGENIC		
SNP_25382_A_28386598	NC_021163.1	Ca_Kabuli_Chr04	28386598	TT	AA	AA	INTERGENIC		
SNP_25383_A_28386613	NC_021163.1	Ca_Kabuli_Chr04	28386613	CC	AA	AA	INTERGENIC		
SNP_25384_A_28386897	NC_021163.1	Ca_Kabuli_Chr04	28386897	GG	AA	AA	INTERGENIC		
SNP_25385_A_28387699	NC_021163.1	Ca_Kabuli_Chr04	28387699	TT	CC	CC	INTERGENIC		
SNP_25386_A_28388496	NC_021163.1	Ca_Kabuli_Chr04	28388496	CC	TT	TT	INTERGENIC		
SNP_25387_A_28388498	NC_021163.1	Ca_Kabuli_Chr04	28388498	TT	GG	GG	INTERGENIC		
SNP_25388_A_28388604	NC_021163.1	Ca_Kabuli_Chr04	28388604	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25389_A_28388743	NC_021163.1	Ca_Kabuli_Chr04	28388743	CC	TT	TT	INTERGENIC			
SNP_25390_A_28388744	NC_021163.1	Ca_Kabuli_Chr04	28388744	AA	GG	GG	INTERGENIC			
SNP_25391_A_28388748	NC_021163.1	Ca_Kabuli_Chr04	28388748	GG	CC	CC	INTERGENIC			
SNP_25392_A_28389956	NC_021163.1	Ca_Kabuli_Chr04	28389956	AA	CC	CC	INTERGENIC			
SNP_25393_A_28389957	NC_021163.1	Ca_Kabuli_Chr04	28389957	AA	TT	TT	INTERGENIC			
SNP_25394_A_28389958	NC_021163.1	Ca_Kabuli_Chr04	28389958	AA	TT	TT	INTERGENIC			
SNP_25395_A_28390229	NC_021163.1	Ca_Kabuli_Chr04	28390229	AA	CC	CC	INTERGENIC			
SNP_25396_A_28390231	NC_021163.1	Ca_Kabuli_Chr04	28390231	TT	CC	CC	INTERGENIC			
SNP_25398_A_28390285	NC_021163.1	Ca_Kabuli_Chr04	28390285	TT	CC	CC	INTERGENIC			
SNP_25399_A_28390330	NC_021163.1	Ca_Kabuli_Chr04	28390330	AA	CC	CC	INTERGENIC			
SNP_25400_A_28390342	NC_021163.1	Ca_Kabuli_Chr04	28390342	GG	AA	AA	INTERGENIC			
SNP_25402_A_28390532	NC_021163.1	Ca_Kabuli_Chr04	28390532	CC	TT	TT	INTERGENIC			
SNP_25403_A_28390546	NC_021163.1	Ca_Kabuli_Chr04	28390546	AA	GG	GG	INTERGENIC			
SNP_25404_A_28390570	NC_021163.1	Ca_Kabuli_Chr04	28390570	AA	CC	CC	INTERGENIC			
SNP_25405_A_28390580	NC_021163.1	Ca_Kabuli_Chr04	28390580	AA	CC	CC	INTERGENIC			
SNP_25406_A_28390720	NC_021163.1	Ca_Kabuli_Chr04	28390720	AA	GG	GG	INTERGENIC			
SNP_25407_A_28390723	NC_021163.1	Ca_Kabuli_Chr04	28390723	AA	CC	CC	INTERGENIC			
SNP_25408_A_28390772	NC_021163.1	Ca_Kabuli_Chr04	28390772	AA	CC	CC	INTERGENIC			
SNP_25409_A_28390937	NC_021163.1	Ca_Kabuli_Chr04	28390937	GG	TT	TT	INTERGENIC			
SNP_25410_A_28390971	NC_021163.1	Ca_Kabuli_Chr04	28390971	AA	GG	GG	INTERGENIC			
SNP_25412_A_28402883	NC_021163.1	Ca_Kabuli_Chr04	28402883	AA	CC	CC	INTERGENIC			
SNP_25413_A_28402908	NC_021163.1	Ca_Kabuli_Chr04	28402908	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25414_A_28403280	NC_021163.1	Ca_Kabuli_Chr04	28403280	CC	TT	TT	INTERGENIC			
SNP_25415_A_28404488	NC_021163.1	Ca_Kabuli_Chr04	28404488	GG	AA	AA	INTERGENIC			
SNP_25416_A_28404826	NC_021163.1	Ca_Kabuli_Chr04	28404826	AA	GG	GG	INTERGENIC			
SNP_25417_A_28405622	NC_021163.1	Ca_Kabuli_Chr04	28405622	AA	TT	TT	INTERGENIC			
SNP_25418_A_28405743	NC_021163.1	Ca_Kabuli_Chr04	28405743	AA	TT	TT	INTERGENIC			
SNP_25419_A_28406142	NC_021163.1	Ca_Kabuli_Chr04	28406142	CC	TT	TT	INTERGENIC			
SNP_25420_A_28408501	NC_021163.1	Ca_Kabuli_Chr04	28408501	CC	TT	TT	INTERGENIC			
SNP_25421_A_28409345	NC_021163.1	Ca_Kabuli_Chr04	28409345	TT	CC	CC	INTERGENIC			
SNP_25422_A_28409655	NC_021163.1	Ca_Kabuli_Chr04	28409655	CC	TT	TT	INTERGENIC			
SNP_25423_A_28409884	NC_021163.1	Ca_Kabuli_Chr04	28409884	GG	AA	AA	INTERGENIC			
SNP_25424_A_28409888	NC_021163.1	Ca_Kabuli_Chr04	28409888	GG	AA	AA	INTERGENIC			
SNP_25425_A_28409889	NC_021163.1	Ca_Kabuli_Chr04	28409889	CC	TT	TT	INTERGENIC			
SNP_25426_A_28410172	NC_021163.1	Ca_Kabuli_Chr04	28410172	GG	AA	AA	INTERGENIC			
SNP_25427_A_28410349	NC_021163.1	Ca_Kabuli_Chr04	28410349	AA	TT	TT	INTERGENIC			
SNP_25428_A_28410359	NC_021163.1	Ca_Kabuli_Chr04	28410359	AA	GG	GG	INTERGENIC			
SNP_25429_A_28412377	NC_021163.1	Ca_Kabuli_Chr04	28412377	AA	GG	GG	INTERGENIC			
SNP_25430_A_28412669	NC_021163.1	Ca_Kabuli_Chr04	28412669	GG	AA	AA	INTERGENIC			
SNP_25431_A_28414260	NC_021163.1	Ca_Kabuli_Chr04	28414260	CC	GG	GG	INTERGENIC			
SNP_25432_A_28414277	NC_021163.1	Ca_Kabuli_Chr04	28414277	AA	GG	GG	INTERGENIC			
SNP_25434_A_28415659	NC_021163.1	Ca_Kabuli_Chr04	28415659	GG	AA	AA	INTERGENIC			
SNP_25435_A_28418016	NC_021163.1	Ca_Kabuli_Chr04	28418016	TT	GG	GG	INTERGENIC			
SNP_25436_A_28418278	NC_021163.1	Ca_Kabuli_Chr04	28418278	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25437_A_28418594	NC_021163.1	Ca_Kabuli_Chr04	28418594	AA	GG	GG	INTERGENIC		
SNP_25438_A_28418611	NC_021163.1	Ca_Kabuli_Chr04	28418611	GG	TT	TT	INTERGENIC		
SNP_25439_A_28418743	NC_021163.1	Ca_Kabuli_Chr04	28418743	TT	CC	CC	INTERGENIC		
SNP_25440_A_28418967	NC_021163.1	Ca_Kabuli_Chr04	28418967	CC	AA	AA	INTERGENIC		
SNP_25441_A_28419019	NC_021163.1	Ca_Kabuli_Chr04	28419019	CC	GG	GG	INTERGENIC		
SNP_25442_A_28419223	NC_021163.1	Ca_Kabuli_Chr04	28419223	AA	GG	GG	INTERGENIC		
SNP_25445_A_28435085	NC_021163.1	Ca_Kabuli_Chr04	28435085	TT	CC	CC	URR	101502133	uncharacterized LOC101502133
SNP_25446_A_28435101	NC_021163.1	Ca_Kabuli_Chr04	28435101	TT	CC	CC	URR	101502133	uncharacterized LOC101502133
SNP_25447_A_28440594	NC_021163.1	Ca_Kabuli_Chr04	28440594	GG	AA	AA	INTERGENIC		
SNP_25448_A_28440627	NC_021163.1	Ca_Kabuli_Chr04	28440627	TT	CC	CC	INTERGENIC		
SNP_25450_A_28449130	NC_021163.1	Ca_Kabuli_Chr04	28449130	CC	TT	TT	INTERGENIC		
SNP_25451_A_28449503	NC_021163.1	Ca_Kabuli_Chr04	28449503	TT	AA	AA	INTERGENIC		
SNP_25452_A_28450186	NC_021163.1	Ca_Kabuli_Chr04	28450186	AA	TT	TT	INTERGENIC		
SNP_25453_A_28451481	NC_021163.1	Ca_Kabuli_Chr04	28451481	TT	CC	CC	INTERGENIC		
SNP_25454_A_28451927	NC_021163.1	Ca_Kabuli_Chr04	28451927	AA	TT	TT	INTERGENIC		
SNP_25455_A_28452617	NC_021163.1	Ca_Kabuli_Chr04	28452617	CC	TT	TT	INTERGENIC		
SNP_25456_A_28452892	NC_021163.1	Ca_Kabuli_Chr04	28452892	TT	CC	CC	INTERGENIC		
SNP_25457_A_28453371	NC_021163.1	Ca_Kabuli_Chr04	28453371	GG	TT	TT	INTERGENIC		
SNP_25458_A_28455161	NC_021163.1	Ca_Kabuli_Chr04	28455161	GG	CC	CC	INTERGENIC		
SNP_25459_A_28455327	NC_021163.1	Ca_Kabuli_Chr04	28455327	GG	TT	TT	INTERGENIC		
SNP_25460_A_28457625	NC_021163.1	Ca_Kabuli_Chr04	28457625	AA	CC	CC	INTERGENIC		
SNP_25462_A_28484288	NC_021163.1	Ca_Kabuli_Chr04	28484288	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25466_A_28505507	NC_021163.1	Ca_Kabuli_Chr04	28505507	CC	AA	AA	INTERGENIC			
SNP_25467_A_28507452	NC_021163.1	Ca_Kabuli_Chr04	28507452	CC	TT	TT	INTERGENIC			
SNP_25468_A_28507533	NC_021163.1	Ca_Kabuli_Chr04	28507533	TT	CC	CC	INTERGENIC			
SNP_25469_A_28524838	NC_021163.1	Ca_Kabuli_Chr04	28524838	TT	GG	GG	INTERGENIC			
SNP_25470_A_28525317	NC_021163.1	Ca_Kabuli_Chr04	28525317	AA	TT	TT	INTERGENIC			
SNP_25471_A_28525892	NC_021163.1	Ca_Kabuli_Chr04	28525892	AA	GG	GG	INTERGENIC			
SNP_25472_A_28526559	NC_021163.1	Ca_Kabuli_Chr04	28526559	CC	TT	TT	INTERGENIC			
SNP_25473_A_28527045	NC_021163.1	Ca_Kabuli_Chr04	28527045	TT	GG	GG	INTERGENIC			
SNP_25474_A_28530408	NC_021163.1	Ca_Kabuli_Chr04	28530408	CC	TT	TT	INTERGENIC			
SNP_25475_A_28531269	NC_021163.1	Ca_Kabuli_Chr04	28531269	TT	CC	CC	INTERGENIC			
SNP_25476_A_28531376	NC_021163.1	Ca_Kabuli_Chr04	28531376	CC	GG	GG	INTERGENIC			
SNP_25477_A_28533437	NC_021163.1	Ca_Kabuli_Chr04	28533437	GG	AA	AA	INTERGENIC			
SNP_25479_A_28535424	NC_021163.1	Ca_Kabuli_Chr04	28535424	AA	GG	GG	INTERGENIC			
SNP_25480_A_28535437	NC_021163.1	Ca_Kabuli_Chr04	28535437	GG	AA	AA	INTERGENIC			
SNP_25482_A_28535830	NC_021163.1	Ca_Kabuli_Chr04	28535830	GG	AA	AA	INTERGENIC			
SNP_25483_A_28535872	NC_021163.1	Ca_Kabuli_Chr04	28535872	GG	AA	AA	INTERGENIC			
SNP_25484_A_28536182	NC_021163.1	Ca_Kabuli_Chr04	28536182	CC	GG	GG	INTERGENIC			
SNP_25485_A_28559899	NC_021163.1	Ca_Kabuli_Chr04	28559899	GG	TT	TT	INTERGENIC			
SNP_25486_A_28572562	NC_021163.1	Ca_Kabuli_Chr04	28572562	AA	TT	TT	INTERGENIC			
SNP_25488_A_28581984	NC_021163.1	Ca_Kabuli_Chr04	28581984	AA	GG	GG	URR	101503067	zinc finger MYM-type protein 1-like	
SNP_25490_A_28583725	NC_021163.1	Ca_Kabuli_Chr04	28583725	AA	GG	GG	INTERGENIC			
SNP_25491_A_28583734	NC_021163.1	Ca_Kabuli_Chr04	28583734	GG	AA	AA	INTERGENIC			

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SNP_25492_A_28583738	NC_021163.1	Ca_Kabuli_Chr04	28583738	TT	CC	CC	INTERGENIC			
SNP_25493_A_28584103	NC_021163.1	Ca_Kabuli_Chr04	28584103	GG	TT	TT	INTERGENIC			
SNP_25494_A_28585200	NC_021163.1	Ca_Kabuli_Chr04	28585200	TT	CC	CC	INTERGENIC			
SNP_25495_A_28585237	NC_021163.1	Ca_Kabuli_Chr04	28585237	AA	GG	GG	INTERGENIC			
SNP_25496_A_28585571	NC_021163.1	Ca_Kabuli_Chr04	28585571	TT	GG	GG	INTERGENIC			
SNP_25497_A_28585581	NC_021163.1	Ca_Kabuli_Chr04	28585581	GG	AA	AA	INTERGENIC			
SNP_25498_A_28585654	NC_021163.1	Ca_Kabuli_Chr04	28585654	TT	AA	AA	INTERGENIC			
SNP_25499_A_28608085	NC_021163.1	Ca_Kabuli_Chr04	28608085	CC	TT	TT	INTERGENIC			
SNP_25500_A_28608308	NC_021163.1	Ca_Kabuli_Chr04	28608308	AA	GG	GG	INTERGENIC			
SNP_25501_A_28617167	NC_021163.1	Ca_Kabuli_Chr04	28617167	AA	TT	TT	INTERGENIC			
SNP_25503_A_28624792	NC_021163.1	Ca_Kabuli_Chr04	28624792	TT	AA	AA	INTERGENIC			
SNP_25504_A_28627600	NC_021163.1	Ca_Kabuli_Chr04	28627600	GG	AA	AA	INTERGENIC			
SNP_25505_A_28631070	NC_021163.1	Ca_Kabuli_Chr04	28631070	AA	GG	GG	INTERGENIC			
SNP_25506_A_28633960	NC_021163.1	Ca_Kabuli_Chr04	28633960	TT	CC	CC	INTERGENIC			
SNP_25507_A_28634953	NC_021163.1	Ca_Kabuli_Chr04	28634953	TT	CC	CC	INTERGENIC			
SNP_25508_A_28635821	NC_021163.1	Ca_Kabuli_Chr04	28635821	CC	TT	TT	INTERGENIC			
SNP_25509_A_28635850	NC_021163.1	Ca_Kabuli_Chr04	28635850	TT	CC	CC	INTERGENIC			
SNP_25511_A_28640117	NC_021163.1	Ca_Kabuli_Chr04	28640117	GG	AA	AA	INTERGENIC			
SNP_25512_A_28640316	NC_021163.1	Ca_Kabuli_Chr04	28640316	TT	AA	AA	INTERGENIC			
SNP_25513_A_28640374	NC_021163.1	Ca_Kabuli_Chr04	28640374	CC	TT	TT	INTERGENIC			
SNP_25514_A_28663748	NC_021163.1	Ca_Kabuli_Chr04	28663748	GG	AA	AA	INTERGENIC			
SNP_25515_A_28669450	NC_021163.1	Ca_Kabuli_Chr04	28669450	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25516_A_28675065	NC_021163.1	Ca_Kabuli_Chr04	28675065	AA	GG	GG	INTERGENIC			
SNP_25517_A_28675074	NC_021163.1	Ca_Kabuli_Chr04	28675074	AA	GG	GG	INTERGENIC			
SNP_25518_A_28675083	NC_021163.1	Ca_Kabuli_Chr04	28675083	TT	AA	AA	INTERGENIC			
SNP_25519_A_28693393	NC_021163.1	Ca_Kabuli_Chr04	28693393	CC	AA	AA	INTERGENIC			
SNP_25520_A_28714936	NC_021163.1	Ca_Kabuli_Chr04	28714936	AA	GG	GG	INTERGENIC			
SNP_25521_A_28714950	NC_021163.1	Ca_Kabuli_Chr04	28714950	CC	TT	TT	INTERGENIC			
SNP_25522_A_28714986	NC_021163.1	Ca_Kabuli_Chr04	28714986	GG	AA	AA	INTERGENIC			
SNP_25524_A_28715024	NC_021163.1	Ca_Kabuli_Chr04	28715024	GG	AA	AA	INTERGENIC			
SNP_25525_A_28715129	NC_021163.1	Ca_Kabuli_Chr04	28715129	CC	TT	TT	INTERGENIC			
SNP_25526_A_28715137	NC_021163.1	Ca_Kabuli_Chr04	28715137	TT	GG	GG	INTERGENIC			
SNP_25527_A_28715227	NC_021163.1	Ca_Kabuli_Chr04	28715227	AA	GG	GG	INTERGENIC			
SNP_25528_A_28715242	NC_021163.1	Ca_Kabuli_Chr04	28715242	GG	AA	AA	INTERGENIC			
SNP_25529_A_28727210	NC_021163.1	Ca_Kabuli_Chr04	28727210	CC	TT	TT	INTERGENIC			
SNP_25530_A_28772013	NC_021163.1	Ca_Kabuli_Chr04	28772013	TT	CC	CC	INTERGENIC			
SNP_25531_A_28774644	NC_021163.1	Ca_Kabuli_Chr04	28774644	CC	TT	TT	INTERGENIC			
SNP_25532_A_28776487	NC_021163.1	Ca_Kabuli_Chr04	28776487	AA	TT	TT	INTERGENIC			
SNP_25533_A_28777601	NC_021163.1	Ca_Kabuli_Chr04	28777601	CC	TT	TT	INTERGENIC			
SNP_25534_A_28778150	NC_021163.1	Ca_Kabuli_Chr04	28778150	TT	AA	AA	INTERGENIC			
SNP_25535_A_28778167	NC_021163.1	Ca_Kabuli_Chr04	28778167	CC	TT	TT	INTERGENIC			
SNP_25536_A_28783252	NC_021163.1	Ca_Kabuli_Chr04	28783252	CC	TT	TT	DRR	101508229	protein NRT1/ PTR FAMILY 5.2-like	
SNP_25538_A_28784308	NC_021163.1	Ca_Kabuli_Chr04	28784308	CC	TT	TT	INTERGENIC			
SNP_25541_A_28793924	NC_021163.1	Ca_Kabuli_Chr04	28793924	GG	AA	AA	URR	101504056	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25542_A_28794380	NC_021163.1	Ca_Kabuli_Chr04	28794380	CC	TT	TT	URR	101504056	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
SNP_25543_A_28794384	NC_021163.1	Ca_Kabuli_Chr04	28794384	TT	CC	CC	URR	101504056	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial
SNP_25544_A_28794903	NC_021163.1	Ca_Kabuli_Chr04	28794903	GG	TT	TT	INTERGENIC		
SNP_25545_A_28794911	NC_021163.1	Ca_Kabuli_Chr04	28794911	TT	CC	CC	INTERGENIC		
SNP_25546_A_28794921	NC_021163.1	Ca_Kabuli_Chr04	28794921	GG	TT	TT	INTERGENIC		
SNP_25547_A_28795023	NC_021163.1	Ca_Kabuli_Chr04	28795023	GG	TT	TT	INTERGENIC		
SNP_25548_A_28800834	NC_021163.1	Ca_Kabuli_Chr04	28800834	GG	TT	TT	INTERGENIC		
SNP_25549_A_28801674	NC_021163.1	Ca_Kabuli_Chr04	28801674	CC	TT	TT	INTERGENIC		
SNP_25550_A_28801930	NC_021163.1	Ca_Kabuli_Chr04	28801930	TT	CC	CC	INTERGENIC		
SNP_25551_A_28801944	NC_021163.1	Ca_Kabuli_Chr04	28801944	GG	TT	TT	INTERGENIC		
SNP_25552_A_28801974	NC_021163.1	Ca_Kabuli_Chr04	28801974	CC	GG	GG	INTERGENIC		
SNP_25553_A_28802405	NC_021163.1	Ca_Kabuli_Chr04	28802405	TT	CC	CC	INTERGENIC		
SNP_25554_A_28805319	NC_021163.1	Ca_Kabuli_Chr04	28805319	AA	GG	GG	INTERGENIC		
SNP_25555_A_28805322	NC_021163.1	Ca_Kabuli_Chr04	28805322	CC	TT	TT	INTERGENIC		
SNP_25556_A_28805327	NC_021163.1	Ca_Kabuli_Chr04	28805327	GG	AA	AA	INTERGENIC		
SNP_25557_A_28805536	NC_021163.1	Ca_Kabuli_Chr04	28805536	GG	AA	AA	INTERGENIC		
SNP_25558_A_28805539	NC_021163.1	Ca_Kabuli_Chr04	28805539	AA	GG	GG	INTERGENIC		
SNP_25560_A_28806639	NC_021163.1	Ca_Kabuli_Chr04	28806639	CC	TT	TT	INTERGENIC		
SNP_25561_A_28806835	NC_021163.1	Ca_Kabuli_Chr04	28806835	CC	TT	TT	INTERGENIC		
SNP_25562_A_28806847	NC_021163.1	Ca_Kabuli_Chr04	28806847	AA	TT	TT	INTERGENIC		
SNP_25563_A_28806856	NC_021163.1	Ca_Kabuli_Chr04	28806856	CC	TT	TT	INTERGENIC		
SNP_25564_A_28818436	NC_021163.1	Ca_Kabuli_Chr04	28818436	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25566_A_28818438	NC_021163.1	Ca_Kabuli_Chr04	28818438	GG	AA	AA	INTERGENIC			
SNP_25566_A_28818738	NC_021163.1	Ca_Kabuli_Chr04	28818738	AA	GG	GG	INTERGENIC			
SNP_25567_A_28822918	NC_021163.1	Ca_Kabuli_Chr04	28822918	AA	GG	GG	INTERGENIC			
SNP_25568_A_28823721	NC_021163.1	Ca_Kabuli_Chr04	28823721	AA	GG	GG	INTERGENIC			
SNP_25569_A_28824613	NC_021163.1	Ca_Kabuli_Chr04	28824613	AA	TT	TT	INTERGENIC			
SNP_25570_A_28824619	NC_021163.1	Ca_Kabuli_Chr04	28824619	GG	CC	CC	INTERGENIC			
SNP_25571_A_28824814	NC_021163.1	Ca_Kabuli_Chr04	28824814	GG	AA	AA	INTERGENIC			
SNP_25572_A_28824903	NC_021163.1	Ca_Kabuli_Chr04	28824903	AA	TT	TT	INTERGENIC			
SNP_25573_A_28827525	NC_021163.1	Ca_Kabuli_Chr04	28827525	GG	CC	CC	INTERGENIC			
SNP_25574_A_28828726	NC_021163.1	Ca_Kabuli_Chr04	28828726	TT	CC	CC	INTERGENIC			
SNP_25575_A_28829846	NC_021163.1	Ca_Kabuli_Chr04	28829846	GG	AA	AA	INTERGENIC			
SNP_25576_A_28830758	NC_021163.1	Ca_Kabuli_Chr04	28830758	GG	AA	AA	INTERGENIC			
SNP_25577_A_28835332	NC_021163.1	Ca_Kabuli_Chr04	28835332	GG	AA	AA	INTERGENIC			
SNP_25578_A_28835752	NC_021163.1	Ca_Kabuli_Chr04	28835752	TT	AA	AA	INTERGENIC			
SNP_25579_A_28842263	NC_021163.1	Ca_Kabuli_Chr04	28842263	AA	GG	GG	INTERGENIC			
SNP_25580_A_28842278	NC_021163.1	Ca_Kabuli_Chr04	28842278	GG	AA	AA	INTERGENIC			
SNP_25581_A_28844854	NC_021163.1	Ca_Kabuli_Chr04	28844854	TT	CC	CC	INTERGENIC			
SNP_25585_A_28856543	NC_021163.1	Ca_Kabuli_Chr04	28856543	AA	CC	CC	INTRON	101504598	casein kinase I-like	
SNP_25586_A_28859064	NC_021163.1	Ca_Kabuli_Chr04	28859064	CC	TT	TT	INTRON	101504598	casein kinase I-like	
SNP_25587_A_28865948	NC_021163.1	Ca_Kabuli_Chr04	28865948	CC	GG	GG	URR	101508550	uncharacterized LOC101508550	
SNP_25588_A_28865952	NC_021163.1	Ca_Kabuli_Chr04	28865952	GG	AA	AA	URR	101508550	uncharacterized LOC101508550	
SNP_25589_A_28865954	NC_021163.1	Ca_Kabuli_Chr04	28865954	AA	TT	TT	URR	101508550	uncharacterized LOC101508550	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25590_A_28871254	NC_021163.1	Ca_Kabuli_Chr04	28871254	GG	AA	AA	URR	101504916	cell division cycle 20.2, cofactor of APC complex-like
SNP_25591_A_28871266	NC_021163.1	Ca_Kabuli_Chr04	28871266	AA	GG	GG	URR	101504916	cell division cycle 20.2, cofactor of APC complex-like
SNP_25592_A_28871843	NC_021163.1	Ca_Kabuli_Chr04	28871843	CC	AA	AA	DRR	101505219	serine/threonine-protein kinase tricorner-like
SNP_25593_A_28871908	NC_021163.1	Ca_Kabuli_Chr04	28871908	CC	TT	TT	DRR	101505219	serine/threonine-protein kinase tricorner-like
SNP_25594_A_28871910	NC_021163.1	Ca_Kabuli_Chr04	28871910	GG	AA	AA	DRR	101505219	serine/threonine-protein kinase tricorner-like
SNP_25595_A_28871967	NC_021163.1	Ca_Kabuli_Chr04	28871967	TT	CC	CC	DRR	101505219	serine/threonine-protein kinase tricorner-like
SNP_25596_A_28872796	NC_021163.1	Ca_Kabuli_Chr04	28872796	AA	GG	GG	INTRON	101505219	serine/threonine-protein kinase tricorner-like
SNP_25597_A_28880039	NC_021163.1	Ca_Kabuli_Chr04	28880039	GG	AA	AA	URR	101505219	serine/threonine-protein kinase tricorner-like
SNP_25598_A_28881618	NC_021163.1	Ca_Kabuli_Chr04	28881618	AA	TT	TT	INTERGENIC		
SNP_25599_A_28885394	NC_021163.1	Ca_Kabuli_Chr04	28885394	TT	AA	AA	INTERGENIC		
SNP_25600_A_28887677	NC_021163.1	Ca_Kabuli_Chr04	28887677	CC	AA	AA	INTERGENIC		
SNP_25602_A_28887948	NC_021163.1	Ca_Kabuli_Chr04	28887948	CC	TT	TT	INTERGENIC		
SNP_25603_A_28900358	NC_021163.1	Ca_Kabuli_Chr04	28900358	CC	TT	TT	NON_SYNONYMOUS_CODING	101508868	probable polygalacturonase At3g15720
SNP_25604_A_28904559	NC_021163.1	Ca_Kabuli_Chr04	28904559	AA	GG	GG	INTERGENIC		
SNP_25606_A_28907815	NC_021163.1	Ca_Kabuli_Chr04	28907815	TT	CC	CC	INTERGENIC		
SNP_25607_A_28909081	NC_021163.1	Ca_Kabuli_Chr04	28909081	CC	TT	TT	INTERGENIC		
SNP_25610_A_28911272	NC_021163.1	Ca_Kabuli_Chr04	28911272	TT	AA	AA	INTERGENIC		
SNP_25613_A_28914556	NC_021163.1	Ca_Kabuli_Chr04	28914556	TT	CC	CC	INTERGENIC		
SNP_25614_A_28915537	NC_021163.1	Ca_Kabuli_Chr04	28915537	TT	AA	AA	INTERGENIC		
SNP_25615_A_28922045	NC_021163.1	Ca_Kabuli_Chr04	28922045	CC	TT	TT	INTERGENIC		
SNP_25616_A_28924607	NC_021163.1	Ca_Kabuli_Chr04	28924607	AA	TT	TT	INTERGENIC		
SNP_25617_A_28924939	NC_021163.1	Ca_Kabuli_Chr04	28924939	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25620_A_28925791	NC_021163.1	Ca_Kabuli_Chr04	28925791	AA	GG	GG	INTERGENIC			
SNP_25621_A_28926706	NC_021163.1	Ca_Kabuli_Chr04	28926706	GG	AA	AA	INTERGENIC			
SNP_25622_A_28929197	NC_021163.1	Ca_Kabuli_Chr04	28929197	CC	TT	TT	INTERGENIC			
SNP_25623_A_28929198	NC_021163.1	Ca_Kabuli_Chr04	28929198	AA	GG	GG	INTERGENIC			
SNP_25624_A_28929199	NC_021163.1	Ca_Kabuli_Chr04	28929199	GG	AA	AA	INTERGENIC			
SNP_25625_A_28930161	NC_021163.1	Ca_Kabuli_Chr04	28930161	CC	AA	AA	INTERGENIC			
SNP_25626_A_28953540	NC_021163.1	Ca_Kabuli_Chr04	28953540	GG	AA	AA	INTERGENIC			
SNP_25627_A_28954090	NC_021163.1	Ca_Kabuli_Chr04	28954090	AA	GG	GG	INTERGENIC			
SNP_25628_A_28956453	NC_021163.1	Ca_Kabuli_Chr04	28956453	TT	CC	CC	INTERGENIC			
SNP_25629_A_28959658	NC_021163.1	Ca_Kabuli_Chr04	28959658	AA	GG	GG	INTERGENIC			
SNP_25630_A_28959981	NC_021163.1	Ca_Kabuli_Chr04	28959981	AA	GG	GG	INTERGENIC			
SNP_25631_A_28965648	NC_021163.1	Ca_Kabuli_Chr04	28965648	TT	GG	GG	INTERGENIC			
SNP_25632_A_28966378	NC_021163.1	Ca_Kabuli_Chr04	28966378	TT	GG	GG	INTERGENIC			
SNP_25633_A_28966397	NC_021163.1	Ca_Kabuli_Chr04	28966397	TT	CC	CC	INTERGENIC			
SNP_25634_A_28966628	NC_021163.1	Ca_Kabuli_Chr04	28966628	CC	TT	TT	INTERGENIC			
SNP_25635_A_28981315	NC_021163.1	Ca_Kabuli_Chr04	28981315	GG	TT	TT	INTERGENIC			
SNP_25636_A_28981396	NC_021163.1	Ca_Kabuli_Chr04	28981396	CC	TT	TT	INTERGENIC			
SNP_25637_A_28981476	NC_021163.1	Ca_Kabuli_Chr04	28981476	CC	TT	TT	INTERGENIC			
SNP_25638_A_28982942	NC_021163.1	Ca_Kabuli_Chr04	28982942	CC	TT	TT	INTERGENIC			
SNP_25639_A_28986395	NC_021163.1	Ca_Kabuli_Chr04	28986395	CC	TT	TT	INTERGENIC			
SNP_25640_A_28986423	NC_021163.1	Ca_Kabuli_Chr04	28986423	GG	AA	AA	INTERGENIC			
SNP_25641_A_28986433	NC_021163.1	Ca_Kabuli_Chr04	28986433	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25642_A_28986491	NC_021163.1	Ca_Kabuli_Chr04	28986491	AA	GG	GG	INTERGENIC		
SNP_25643_A_28986676	NC_021163.1	Ca_Kabuli_Chr04	28986676	CC	TT	TT	INTERGENIC		
SNP_25644_A_28986727	NC_021163.1	Ca_Kabuli_Chr04	28986727	TT	GG	GG	INTERGENIC		
SNP_25646_A_28990295	NC_021163.1	Ca_Kabuli_Chr04	28990295	GG	AA	AA	INTRON	101506306	probable methyltransferase PMT3
SNP_25648_A_28990355	NC_021163.1	Ca_Kabuli_Chr04	28990355	GG	AA	AA	INTRON	101506306	probable methyltransferase PMT3
SNP_25649_A_28990651	NC_021163.1	Ca_Kabuli_Chr04	28990651	TT	GG	GG	INTRON	101506306	probable methyltransferase PMT3
SNP_25650_A_28990668	NC_021163.1	Ca_Kabuli_Chr04	28990668	GG	AA	AA	INTRON	101506306	probable methyltransferase PMT3
SNP_25651_A_28992349	NC_021163.1	Ca_Kabuli_Chr04	28992349	AA	GG	GG	INTRON	101506306	probable methyltransferase PMT3
SNP_25652_A_28992407	NC_021163.1	Ca_Kabuli_Chr04	28992407	TT	CC	CC	INTRON	101506306	probable methyltransferase PMT3
SNP_25653_A_28994453	NC_021163.1	Ca_Kabuli_Chr04	28994453	GG	TT	TT	INTRON	101506306	probable methyltransferase PMT3
SNP_25654_A_28994482	NC_021163.1	Ca_Kabuli_Chr04	28994482	AA	TT	TT	INTRON	101506306	probable methyltransferase PMT3
SNP_25655_A_28995783	NC_021163.1	Ca_Kabuli_Chr04	28995783	AA	GG	GG	SYNONYMOUS_CODING	101506306	probable methyltransferase PMT3
SNP_25656_A_28995805	NC_021163.1	Ca_Kabuli_Chr04	28995805	CC	TT	TT	SYNONYMOUS_CODING	101506306	probable methyltransferase PMT3
SNP_25657_A_28995876	NC_021163.1	Ca_Kabuli_Chr04	28995876	TT	CC	CC	SYNONYMOUS_CODING	101506306	probable methyltransferase PMT3
SNP_25659_A_29019660	NC_021163.1	Ca_Kabuli_Chr04	29019660	AA	TT	TT	INTERGENIC		
SNP_25660_A_29019671	NC_021163.1	Ca_Kabuli_Chr04	29019671	TT	GG	GG	INTERGENIC		
SNP_25661_A_29019673	NC_021163.1	Ca_Kabuli_Chr04	29019673	AA	TT	TT	INTERGENIC		
SNP_25662_A_29028269	NC_021163.1	Ca_Kabuli_Chr04	29028269	AA	GG	GG	INTERGENIC		
SNP_25663_A_29028271	NC_021163.1	Ca_Kabuli_Chr04	29028271	AA	GG	GG	INTERGENIC		
SNP_25664_A_29028279	NC_021163.1	Ca_Kabuli_Chr04	29028279	TT	CC	CC	INTERGENIC		
SNP_25665_A_29028299	NC_021163.1	Ca_Kabuli_Chr04	29028299	GG	TT	AA	INTERGENIC		
SNP_25666_A_29028317	NC_021163.1	Ca_Kabuli_Chr04	29028317	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25667_A_29030290	NC_021163.1	Ca_Kabuli_Chr04	29030290	TT	CC	CC	INTERGENIC			
SNP_25668_A_29030946	NC_021163.1	Ca_Kabuli_Chr04	29030946	AA	TT	TT	INTERGENIC			
SNP_25669_A_29034254	NC_021163.1	Ca_Kabuli_Chr04	29034254	CC	TT	TT	INTERGENIC			
SNP_25670_A_29035116	NC_021163.1	Ca_Kabuli_Chr04	29035116	AA	TT	TT	INTERGENIC			
SNP_25671_A_29035147	NC_021163.1	Ca_Kabuli_Chr04	29035147	GG	AA	AA	INTERGENIC			
SNP_25672_A_29035389	NC_021163.1	Ca_Kabuli_Chr04	29035389	AA	GG	GG	INTERGENIC			
SNP_25673_A_29035418	NC_021163.1	Ca_Kabuli_Chr04	29035418	TT	CC	CC	INTERGENIC			
SNP_25674_A_29035433	NC_021163.1	Ca_Kabuli_Chr04	29035433	AA	CC	CC	INTERGENIC			
SNP_25675_A_29035434	NC_021163.1	Ca_Kabuli_Chr04	29035434	TT	GG	GG	INTERGENIC			
SNP_25676_A_29036387	NC_021163.1	Ca_Kabuli_Chr04	29036387	GG	AA	AA	INTERGENIC			
SNP_25677_A_29036478	NC_021163.1	Ca_Kabuli_Chr04	29036478	TT	GG	GG	INTERGENIC			
SNP_25678_A_29037006	NC_021163.1	Ca_Kabuli_Chr04	29037006	AA	CC	CC	INTERGENIC			
SNP_25679_A_29037010	NC_021163.1	Ca_Kabuli_Chr04	29037010	TT	AA	AA	INTERGENIC			
SNP_25681_A_29037347	NC_021163.1	Ca_Kabuli_Chr04	29037347	CC	TT	TT	INTERGENIC			
SNP_25682_A_29037669	NC_021163.1	Ca_Kabuli_Chr04	29037669	TT	CC	CC	DRR	101506852	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 4-like	
SNP_25683_A_29049664	NC_021163.1	Ca_Kabuli_Chr04	29049664	TT	CC	CC	INTERGENIC			
SNP_25685_A_29051717	NC_021163.1	Ca_Kabuli_Chr04	29051717	CC	TT	TT	INTERGENIC			
SNP_25686_A_29052024	NC_021163.1	Ca_Kabuli_Chr04	29052024	AA	GG	GG	INTERGENIC			
SNP_25687_A_29052309	NC_021163.1	Ca_Kabuli_Chr04	29052309	TT	AA	AA	INTERGENIC			
SNP_25688_A_29055788	NC_021163.1	Ca_Kabuli_Chr04	29055788	TT	CC	CC	INTERGENIC			
SNP_25689_A_29055834	NC_021163.1	Ca_Kabuli_Chr04	29055834	GG	TT	TT	INTERGENIC			
SNP_25690_A_29056146	NC_021163.1	Ca_Kabuli_Chr04	29056146	GG	AA	AA	INTERGENIC			

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SNP_25691_A_29056271	NC_021163.1	Ca_Kabuli_Chr04	29056271	CC	TT	TT	INTERGENIC			
SNP_25692_A_29056423	NC_021163.1	Ca_Kabuli_Chr04	29056423	GG	AA	AA	INTERGENIC			
SNP_25693_A_29059555	NC_021163.1	Ca_Kabuli_Chr04	29059555	TT	CC	CC	INTERGENIC			
SNP_25694_A_29060384	NC_021163.1	Ca_Kabuli_Chr04	29060384	CC	AA	AA	INTERGENIC			
SNP_25695_A_29060395	NC_021163.1	Ca_Kabuli_Chr04	29060395	TT	CC	CC	INTERGENIC			
SNP_25696_A_29060708	NC_021163.1	Ca_Kabuli_Chr04	29060708	TT	CC	CC	INTERGENIC			
SNP_25697_A_29060709	NC_021163.1	Ca_Kabuli_Chr04	29060709	CC	TT	TT	INTERGENIC			
SNP_25698_A_29060841	NC_021163.1	Ca_Kabuli_Chr04	29060841	GG	AA	AA	INTERGENIC			
SNP_25699_A_29061004	NC_021163.1	Ca_Kabuli_Chr04	29061004	CC	TT	TT	INTERGENIC			
SNP_25700_A_29061050	NC_021163.1	Ca_Kabuli_Chr04	29061050	AA	GG	GG	INTERGENIC			
SNP_25701_A_29061051	NC_021163.1	Ca_Kabuli_Chr04	29061051	GG	AA	AA	INTERGENIC			
SNP_25702_A_29061258	NC_021163.1	Ca_Kabuli_Chr04	29061258	AA	CC	CC	INTERGENIC			
SNP_25703_A_29061259	NC_021163.1	Ca_Kabuli_Chr04	29061259	TT	GG	GG	INTERGENIC			
SNP_25704_A_29062607	NC_021163.1	Ca_Kabuli_Chr04	29062607	TT	CC	CC	INTERGENIC			
SNP_25705_A_29063052	NC_021163.1	Ca_Kabuli_Chr04	29063052	TT	GG	GG	INTERGENIC			
SNP_25707_A_29064979	NC_021163.1	Ca_Kabuli_Chr04	29064979	AA	GG	GG	INTERGENIC			
SNP_25708_A_29065110	NC_021163.1	Ca_Kabuli_Chr04	29065110	TT	CC	CC	INTERGENIC			
SNP_25709_A_29065113	NC_021163.1	Ca_Kabuli_Chr04	29065113	CC	AA	AA	INTERGENIC			
SNP_25711_A_29066199	NC_021163.1	Ca_Kabuli_Chr04	29066199	GG	TT	TT	INTERGENIC			
SNP_25712_A_29066222	NC_021163.1	Ca_Kabuli_Chr04	29066222	AA	GG	GG	INTERGENIC			
SNP_25713_A_29071770	NC_021163.1	Ca_Kabuli_Chr04	29071770	CC	GG	GG	INTERGENIC			
SNP_25714_A_29084530	NC_021163.1	Ca_Kabuli_Chr04	29084530	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25716_A_29085123	NC_021163.1	Ca_Kabuli_Chr04	29085123	TT	CC	CC	INTERGENIC			
SNP_25717_A_29085142	NC_021163.1	Ca_Kabuli_Chr04	29085142	TT	CC	CC	INTERGENIC			
SNP_25718_A_29085144	NC_021163.1	Ca_Kabuli_Chr04	29085144	GG	AA	AA	INTERGENIC			
SNP_25719_A_29085178	NC_021163.1	Ca_Kabuli_Chr04	29085178	CC	TT	TT	INTERGENIC			
SNP_25720_A_29091793	NC_021163.1	Ca_Kabuli_Chr04	29091793	TT	GG	GG	DRR	101507914		aldo-keto reductase
SNP_25721_A_29094271	NC_021163.1	Ca_Kabuli_Chr04	29094271	AA	GG	GG	INTRON	101507914		aldo-keto reductase
SNP_25722_A_29097122	NC_021163.1	Ca_Kabuli_Chr04	29097122	GG	AA	AA	URR	101507914		aldo-keto reductase
SNP_25723_A_29099071	NC_021163.1	Ca_Kabuli_Chr04	29099071	GG	AA	AA	INTERGENIC			
SNP_25724_A_29099082	NC_021163.1	Ca_Kabuli_Chr04	29099082	AA	GG	GG	INTERGENIC			
SNP_25725_A_29100761	NC_021163.1	Ca_Kabuli_Chr04	29100761	CC	TT	TT	INTERGENIC			
SNP_25726_A_29100999	NC_021163.1	Ca_Kabuli_Chr04	29100999	TT	CC	CC	INTERGENIC			
SNP_25727_A_29109149	NC_021163.1	Ca_Kabuli_Chr04	29109149	AA	GG	GG	INTERGENIC			
SNP_25728_A_29109152	NC_021163.1	Ca_Kabuli_Chr04	29109152	GG	CC	CC	INTERGENIC			
SNP_25729_A_29109154	NC_021163.1	Ca_Kabuli_Chr04	29109154	TT	CC	CC	INTERGENIC			
SNP_25730_A_29109185	NC_021163.1	Ca_Kabuli_Chr04	29109185	CC	AA	AA	INTERGENIC			
SNP_25732_A_29110555	NC_021163.1	Ca_Kabuli_Chr04	29110555	TT	CC	CC	INTERGENIC			
SNP_25733_A_29110558	NC_021163.1	Ca_Kabuli_Chr04	29110558	GG	TT	TT	INTERGENIC			
SNP_25734_A_29111773	NC_021163.1	Ca_Kabuli_Chr04	29111773	GG	TT	TT	INTERGENIC			
SNP_25735_A_29111776	NC_021163.1	Ca_Kabuli_Chr04	29111776	AA	CC	CC	INTERGENIC			
SNP_25736_A_29112084	NC_021163.1	Ca_Kabuli_Chr04	29112084	GG	AA	AA	INTERGENIC			
SNP_25737_A_29112415	NC_021163.1	Ca_Kabuli_Chr04	29112415	CC	AA	AA	INTERGENIC			
SNP_25738_A_29112994	NC_021163.1	Ca_Kabuli_Chr04	29112994	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25739_A_29113008	NC_021163.1	Ca_Kabuli_Chr04	29113008	CC	TT	TT	INTERGENIC			
SNP_25740_A_29113010	NC_021163.1	Ca_Kabuli_Chr04	29113010	AA	GG	GG	INTERGENIC			
SNP_25741_A_29114941	NC_021163.1	Ca_Kabuli_Chr04	29114941	TT	CC	CC	INTERGENIC			
SNP_25742_A_29115513	NC_021163.1	Ca_Kabuli_Chr04	29115513	GG	TT	TT	INTERGENIC			
SNP_25743_A_29115771	NC_021163.1	Ca_Kabuli_Chr04	29115771	TT	CC	CC	INTERGENIC			
SNP_25744_A_29117913	NC_021163.1	Ca_Kabuli_Chr04	29117913	TT	CC	CC	INTERGENIC			
SNP_25745_A_29117934	NC_021163.1	Ca_Kabuli_Chr04	29117934	CC	TT	TT	INTERGENIC			
SNP_25746_A_29117956	NC_021163.1	Ca_Kabuli_Chr04	29117956	AA	GG	GG	INTERGENIC			
SNP_25747_A_29119884	NC_021163.1	Ca_Kabuli_Chr04	29119884	GG	TT	TT	INTERGENIC			
SNP_25748_A_29120158	NC_021163.1	Ca_Kabuli_Chr04	29120158	AA	GG	GG	INTERGENIC			
SNP_25750_A_29120543	NC_021163.1	Ca_Kabuli_Chr04	29120543	CC	TT	TT	INTERGENIC			
SNP_25751_A_29120806	NC_021163.1	Ca_Kabuli_Chr04	29120806	TT	CC	CC	INTERGENIC			
SNP_25752_A_29123272	NC_021163.1	Ca_Kabuli_Chr04	29123272	TT	AA	AA	INTERGENIC			
SNP_25753_A_29130805	NC_021163.1	Ca_Kabuli_Chr04	29130805	AA	TT	TT	INTERGENIC			
SNP_25754_A_29130867	NC_021163.1	Ca_Kabuli_Chr04	29130867	TT	GG	GG	INTERGENIC			
SNP_25755_A_29130923	NC_021163.1	Ca_Kabuli_Chr04	29130923	AA	GG	GG	INTERGENIC			
SNP_25756_A_29131082	NC_021163.1	Ca_Kabuli_Chr04	29131082	GG	TT	TT	INTERGENIC			
SNP_25757_A_29131102	NC_021163.1	Ca_Kabuli_Chr04	29131102	CC	AA	AA	INTERGENIC			
SNP_25758_A_29131104	NC_021163.1	Ca_Kabuli_Chr04	29131104	AA	GG	GG	INTERGENIC			
SNP_25759_A_29131280	NC_021163.1	Ca_Kabuli_Chr04	29131280	TT	CC	CC	INTERGENIC			
SNP_25760_A_29133501	NC_021163.1	Ca_Kabuli_Chr04	29133501	GG	AA	AA	INTERGENIC			
SNP_25761_A_29133689	NC_021163.1	Ca_Kabuli_Chr04	29133689	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25762_A_29133738	NC_021163.1	Ca_Kabuli_Chr04	29133738	CC	AA	AA	INTERGENIC		
SNP_25763_A_29134019	NC_021163.1	Ca_Kabuli_Chr04	29134019	AA	CC	CC	INTERGENIC		
SNP_25765_A_29134277	NC_021163.1	Ca_Kabuli_Chr04	29134277	AA	CC	CC	INTERGENIC		
SNP_25766_A_29134592	NC_021163.1	Ca_Kabuli_Chr04	29134592	GG	AA	AA	INTERGENIC		
SNP_25767_A_29134873	NC_021163.1	Ca_Kabuli_Chr04	29134873	AA	GG	GG	INTERGENIC		
SNP_25768_A_29134887	NC_021163.1	Ca_Kabuli_Chr04	29134887	CC	GG	GG	INTERGENIC		
SNP_25769_A_29134896	NC_021163.1	Ca_Kabuli_Chr04	29134896	CC	TT	TT	INTERGENIC		
SNP_25770_A_29134910	NC_021163.1	Ca_Kabuli_Chr04	29134910	GG	AA	AA	INTERGENIC		
SNP_25771_A_29135208	NC_021163.1	Ca_Kabuli_Chr04	29135208	TT	GG	GG	INTERGENIC		
SNP_25772_A_29135330	NC_021163.1	Ca_Kabuli_Chr04	29135330	AA	TT	TT	INTERGENIC		
SNP_25773_A_29137530	NC_021163.1	Ca_Kabuli_Chr04	29137530	CC	AA	AA	INTERGENIC		
SNP_25774_A_29156497	NC_021163.1	Ca_Kabuli_Chr04	29156497	CC	GG	GG	DRR	101509190	AT-hook motif nuclear-localized protein 16-like
SNP_25775_A_29156652	NC_021163.1	Ca_Kabuli_Chr04	29156652	TT	GG	GG	DRR	101509190	AT-hook motif nuclear-localized protein 16-like
SNP_25777_A_29158242	NC_021163.1	Ca_Kabuli_Chr04	29158242	AA	GG	GG	URR	101509190	AT-hook motif nuclear-localized protein 16-like
SNP_25780_A_29174942	NC_021163.1	Ca_Kabuli_Chr04	29174942	TT	AA	AA	INTERGENIC		
SNP_25781_A_29175948	NC_021163.1	Ca_Kabuli_Chr04	29175948	TT	CC	CC	INTERGENIC		
SNP_25782_A_29176299	NC_021163.1	Ca_Kabuli_Chr04	29176299	GG	AA	AA	INTERGENIC		
SNP_25783_A_29176336	NC_021163.1	Ca_Kabuli_Chr04	29176336	AA	TT	TT	INTERGENIC		
SNP_25784_A_29176417	NC_021163.1	Ca_Kabuli_Chr04	29176417	GG	AA	AA	INTERGENIC		
SNP_25785_A_29176761	NC_021163.1	Ca_Kabuli_Chr04	29176761	TT	CC	CC	INTERGENIC		
SNP_25786_A_29185941	NC_021163.1	Ca_Kabuli_Chr04	29185941	GG	TT	TT	INTERGENIC		
SNP_25787_A_29185967	NC_021163.1	Ca_Kabuli_Chr04	29185967	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25788_A_29185994	NC_021163.1	Ca_Kabuli_Chr04	29185994	CC	TT	TT	INTERGENIC			
SNP_25789_A_29186334	NC_021163.1	Ca_Kabuli_Chr04	29186334	TT	CC	CC	INTERGENIC			
SNP_25790_A_29186828	NC_021163.1	Ca_Kabuli_Chr04	29186828	TT	GG	GG	INTERGENIC			
SNP_25791_A_29187841	NC_021163.1	Ca_Kabuli_Chr04	29187841	AA	GG	GG	INTERGENIC			
SNP_25792_A_29188293	NC_021163.1	Ca_Kabuli_Chr04	29188293	AA	TT	TT	INTERGENIC			
SNP_25793_A_29188369	NC_021163.1	Ca_Kabuli_Chr04	29188369	GG	AA	AA	INTERGENIC			
SNP_25797_A_29191427	NC_021163.1	Ca_Kabuli_Chr04	29191427	TT	GG	GG	INTERGENIC			
SNP_25798_A_29191741	NC_021163.1	Ca_Kabuli_Chr04	29191741	TT	CC	CC	INTERGENIC			
SNP_25799_A_29194782	NC_021163.1	Ca_Kabuli_Chr04	29194782	TT	GG	GG	INTERGENIC			
SNP_25800_A_29194990	NC_021163.1	Ca_Kabuli_Chr04	29194990	TT	CC	CC	INTERGENIC			
SNP_25801_A_29195594	NC_021163.1	Ca_Kabuli_Chr04	29195594	AA	TT	TT	INTERGENIC			
SNP_25802_A_29195595	NC_021163.1	Ca_Kabuli_Chr04	29195595	AA	TT	TT	INTERGENIC			
SNP_25803_A_29195598	NC_021163.1	Ca_Kabuli_Chr04	29195598	AA	CC	CC	INTERGENIC			
SNP_25804_A_29196647	NC_021163.1	Ca_Kabuli_Chr04	29196647	GG	AA	AA	INTERGENIC			
SNP_25805_A_29202507	NC_021163.1	Ca_Kabuli_Chr04	29202507	AA	CC	CC	INTERGENIC			
SNP_25806_A_29202728	NC_021163.1	Ca_Kabuli_Chr04	29202728	TT	CC	CC	INTERGENIC			
SNP_25807_A_29202955	NC_021163.1	Ca_Kabuli_Chr04	29202955	TT	GG	GG	INTERGENIC			
SNP_25809_A_29203853	NC_021163.1	Ca_Kabuli_Chr04	29203853	GG	CC	CC	INTERGENIC			
SNP_25811_A_29205123	NC_021163.1	Ca_Kabuli_Chr04	29205123	GG	AA	AA	INTERGENIC			
SNP_25812_A_29205135	NC_021163.1	Ca_Kabuli_Chr04	29205135	AA	GG	GG	INTERGENIC			
SNP_25813_A_29207499	NC_021163.1	Ca_Kabuli_Chr04	29207499	CC	TT	TT	INTERGENIC			
SNP_25814_A_29207541	NC_021163.1	Ca_Kabuli_Chr04	29207541	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25815_A_29207979	NC_021163.1	Ca_Kabuli_Chr04	29207979	TT	CC	CC	INTERGENIC			
SNP_25816_A_29208305	NC_021163.1	Ca_Kabuli_Chr04	29208305	GG	AA	AA	INTERGENIC			
SNP_25817_A_29208695	NC_021163.1	Ca_Kabuli_Chr04	29208695	AA	GG	GG	INTERGENIC			
SNP_25818_A_29209260	NC_021163.1	Ca_Kabuli_Chr04	29209260	CC	TT	TT	INTERGENIC			
SNP_25819_A_29212986	NC_021163.1	Ca_Kabuli_Chr04	29212986	AA	GG	GG	INTERGENIC			
SNP_25820_A_29213924	NC_021163.1	Ca_Kabuli_Chr04	29213924	CC	AA	AA	INTERGENIC			
SNP_25821_A_29216158	NC_021163.1	Ca_Kabuli_Chr04	29216158	GG	CC	CC	INTERGENIC			
SNP_25822_A_29216206	NC_021163.1	Ca_Kabuli_Chr04	29216206	TT	CC	CC	INTERGENIC			
SNP_25823_A_29220773	NC_021163.1	Ca_Kabuli_Chr04	29220773	AA	GG	GG	INTERGENIC			
SNP_25824_A_29221387	NC_021163.1	Ca_Kabuli_Chr04	29221387	AA	GG	GG	INTERGENIC			
SNP_25825_A_29221391	NC_021163.1	Ca_Kabuli_Chr04	29221391	CC	AA	AA	INTERGENIC			
SNP_25826_A_29222271	NC_021163.1	Ca_Kabuli_Chr04	29222271	AA	TT	TT	INTERGENIC			
SNP_25827_A_29222491	NC_021163.1	Ca_Kabuli_Chr04	29222491	GG	TT	TT	INTERGENIC			
SNP_25828_A_29222582	NC_021163.1	Ca_Kabuli_Chr04	29222582	CC	TT	TT	INTERGENIC			
SNP_25829_A_29222909	NC_021163.1	Ca_Kabuli_Chr04	29222909	GG	CC	CC	INTERGENIC			
SNP_25830_A_29222959	NC_021163.1	Ca_Kabuli_Chr04	29222959	GG	CC	CC	INTERGENIC			
SNP_25831_A_29223202	NC_021163.1	Ca_Kabuli_Chr04	29223202	CC	TT	TT	INTERGENIC			
SNP_25832_A_29224586	NC_021163.1	Ca_Kabuli_Chr04	29224586	GG	AA	AA	INTERGENIC			
SNP_25833_A_29225595	NC_021163.1	Ca_Kabuli_Chr04	29225595	GG	AA	AA	INTERGENIC			
SNP_25834_A_29225997	NC_021163.1	Ca_Kabuli_Chr04	29225997	CC	AA	AA	INTERGENIC			
SNP_25835_A_29226318	NC_021163.1	Ca_Kabuli_Chr04	29226318	AA	TT	TT	INTERGENIC			
SNP_25837_A_29230721	NC_021163.1	Ca_Kabuli_Chr04	29230721	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25838_A_29230723	NC_021163.1	Ca_Kabuli_Chr04	29230723	CC	TT	TT	INTERGENIC			
SNP_25839_A_29230763	NC_021163.1	Ca_Kabuli_Chr04	29230763	TT	AA	AA	INTERGENIC			
SNP_25840_A_29230920	NC_021163.1	Ca_Kabuli_Chr04	29230920	CC	TT	TT	INTERGENIC			
SNP_25841_A_29231938	NC_021163.1	Ca_Kabuli_Chr04	29231938	TT	GG	GG	INTERGENIC			
SNP_25842_A_29232068	NC_021163.1	Ca_Kabuli_Chr04	29232068	CC	TT	TT	INTERGENIC			
SNP_25843_A_29232107	NC_021163.1	Ca_Kabuli_Chr04	29232107	GG	AA	AA	INTERGENIC			
SNP_25844_A_29232153	NC_021163.1	Ca_Kabuli_Chr04	29232153	TT	CC	CC	INTERGENIC			
SNP_25845_A_29232895	NC_021163.1	Ca_Kabuli_Chr04	29232895	CC	GG	GG	INTERGENIC			
SNP_25846_A_29233095	NC_021163.1	Ca_Kabuli_Chr04	29233095	CC	TT	TT	INTERGENIC			
SNP_25847_A_29233118	NC_021163.1	Ca_Kabuli_Chr04	29233118	GG	AA	AA	INTERGENIC			
SNP_25848_A_29233255	NC_021163.1	Ca_Kabuli_Chr04	29233255	AA	GG	GG	INTERGENIC			
SNP_25849_A_29233258	NC_021163.1	Ca_Kabuli_Chr04	29233258	AA	GG	GG	INTERGENIC			
SNP_25850_A_29233571	NC_021163.1	Ca_Kabuli_Chr04	29233571	TT	GG	GG	INTERGENIC			
SNP_25851_A_29235180	NC_021163.1	Ca_Kabuli_Chr04	29235180	TT	AA	AA	INTERGENIC			
SNP_25852_A_29235476	NC_021163.1	Ca_Kabuli_Chr04	29235476	AA	GG	GG	INTERGENIC			
SNP_25853_A_29235538	NC_021163.1	Ca_Kabuli_Chr04	29235538	CC	TT	TT	INTERGENIC			
SNP_25854_A_29236913	NC_021163.1	Ca_Kabuli_Chr04	29236913	AA	GG	GG	INTERGENIC			
SNP_25855_A_29238397	NC_021163.1	Ca_Kabuli_Chr04	29238397	CC	TT	TT	INTERGENIC			
SNP_25856_A_29238680	NC_021163.1	Ca_Kabuli_Chr04	29238680	GG	AA	AA	INTERGENIC			
SNP_25857_A_29238702	NC_021163.1	Ca_Kabuli_Chr04	29238702	CC	TT	TT	INTERGENIC			
SNP_25860_A_29244529	NC_021163.1	Ca_Kabuli_Chr04	29244529	GG	CC	CC	INTERGENIC			
SNP_25862_A_29244845	NC_021163.1	Ca_Kabuli_Chr04	29244845	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25863_A_29244857	NC_021163.1	Ca_Kabuli_Chr04	29244857	TT	GG	GG	INTERGENIC		
SNP_25864_A_29244881	NC_021163.1	Ca_Kabuli_Chr04	29244881	GG	AA	AA	INTERGENIC		
SNP_25866_A_29245115	NC_021163.1	Ca_Kabuli_Chr04	29245115	AA	CC	CC	INTERGENIC		
SNP_25867_A_29245157	NC_021163.1	Ca_Kabuli_Chr04	29245157	TT	AA	AA	INTERGENIC		
SNP_25868_A_29248104	NC_021163.1	Ca_Kabuli_Chr04	29248104	TT	AA	AA	INTERGENIC		
SNP_25869_A_29262046	NC_021163.1	Ca_Kabuli_Chr04	29262046	GG	CC	CC	INTERGENIC		
SNP_25870_A_29262073	NC_021163.1	Ca_Kabuli_Chr04	29262073	AA	GG	GG	INTERGENIC		
SNP_25871_A_29262264	NC_021163.1	Ca_Kabuli_Chr04	29262264	CC	GG	GG	INTERGENIC		
SNP_25872_A_29263074	NC_021163.1	Ca_Kabuli_Chr04	29263074	GG	AA	AA	INTERGENIC		
SNP_25873_A_29263237	NC_021163.1	Ca_Kabuli_Chr04	29263237	GG	AA	AA	INTERGENIC		
SNP_25874_A_29263251	NC_021163.1	Ca_Kabuli_Chr04	29263251	TT	CC	CC	INTERGENIC		
SNP_25876_A_29266856	NC_021163.1	Ca_Kabuli_Chr04	29266856	CC	TT	TT	DRR	101504491	uncharacterized LOC101504491
SNP_25877_A_29266857	NC_021163.1	Ca_Kabuli_Chr04	29266857	TT	AA	AA	DRR	101504491	uncharacterized LOC101504491
SNP_25879_A_29273574	NC_021163.1	Ca_Kabuli_Chr04	29273574	GG	AA	AA	INTERGENIC		
SNP_25882_A_29292314	NC_021163.1	Ca_Kabuli_Chr04	29292314	GG	AA	AA	INTERGENIC		
SNP_25884_A_29305055	NC_021163.1	Ca_Kabuli_Chr04	29305055	TT	GG	GG	INTERGENIC		
SNP_25885_A_29305060	NC_021163.1	Ca_Kabuli_Chr04	29305060	GG	AA	AA	INTERGENIC		
SNP_25886_A_29305061	NC_021163.1	Ca_Kabuli_Chr04	29305061	TT	CC	CC	INTERGENIC		
SNP_25887_A_29305094	NC_021163.1	Ca_Kabuli_Chr04	29305094	CC	TT	TT	INTERGENIC		
SNP_25888_A_29306913	NC_021163.1	Ca_Kabuli_Chr04	29306913	GG	TT	TT	INTERGENIC		
SNP_25889_A_29308145	NC_021163.1	Ca_Kabuli_Chr04	29308145	TT	AA	AA	INTERGENIC		
SNP_25890_A_29308168	NC_021163.1	Ca_Kabuli_Chr04	29308168	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25891_A_29310017	NC_021163.1	Ca_Kabuli_Chr04	29310017	AA	CC	CC	INTERGENIC			
SNP_25892_A_29310019	NC_021163.1	Ca_Kabuli_Chr04	29310019	CC	AA	AA	INTERGENIC			
SNP_25893_A_29310384	NC_021163.1	Ca_Kabuli_Chr04	29310384	AA	TT	TT	INTERGENIC			
SNP_25894_A_29310387	NC_021163.1	Ca_Kabuli_Chr04	29310387	GG	TT	TT	INTERGENIC			
SNP_25895_A_29310472	NC_021163.1	Ca_Kabuli_Chr04	29310472	GG	AA	AA	INTERGENIC			
SNP_25896_A_29310604	NC_021163.1	Ca_Kabuli_Chr04	29310604	AA	GG	GG	INTERGENIC			
SNP_25897_A_29310650	NC_021163.1	Ca_Kabuli_Chr04	29310650	AA	GG	GG	INTERGENIC			
SNP_25899_A_29310965	NC_021163.1	Ca_Kabuli_Chr04	29310965	TT	GG	GG	INTERGENIC			
SNP_25901_A_29312398	NC_021163.1	Ca_Kabuli_Chr04	29312398	AA	CC	CC	INTERGENIC			
SNP_25902_A_29313097	NC_021163.1	Ca_Kabuli_Chr04	29313097	CC	TT	TT	INTERGENIC			
SNP_25903_A_29313310	NC_021163.1	Ca_Kabuli_Chr04	29313310	GG	AA	AA	INTERGENIC			
SNP_25904_A_29313323	NC_021163.1	Ca_Kabuli_Chr04	29313323	CC	TT	TT	INTERGENIC			
SNP_25905_A_29314646	NC_021163.1	Ca_Kabuli_Chr04	29314646	AA	GG	GG	INTERGENIC			
SNP_25906_A_29314869	NC_021163.1	Ca_Kabuli_Chr04	29314869	TT	GG	GG	INTERGENIC			
SNP_25907_A_29316725	NC_021163.1	Ca_Kabuli_Chr04	29316725	TT	GG	GG	INTERGENIC			
SNP_25908_A_29317419	NC_021163.1	Ca_Kabuli_Chr04	29317419	CC	TT	TT	INTERGENIC			
SNP_25909_A_29317539	NC_021163.1	Ca_Kabuli_Chr04	29317539	GG	AA	AA	INTERGENIC			
SNP_25910_A_29317612	NC_021163.1	Ca_Kabuli_Chr04	29317612	GG	AA	AA	INTERGENIC			
SNP_25911_A_29317888	NC_021163.1	Ca_Kabuli_Chr04	29317888	CC	TT	TT	INTERGENIC			
SNP_25912_A_29320553	NC_021163.1	Ca_Kabuli_Chr04	29320553	GG	AA	AA	INTERGENIC			
SNP_25913_A_29320881	NC_021163.1	Ca_Kabuli_Chr04	29320881	CC	TT	TT	INTERGENIC			
SNP_25914_A_29320898	NC_021163.1	Ca_Kabuli_Chr04	29320898	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25916_A_29321375	NC_021163.1	Ca_Kabuli_Chr04	29321375	GG	CC	CC	INTERGENIC			
SNP_25917_A_29321393	NC_021163.1	Ca_Kabuli_Chr04	29321393	TT	CC	CC	INTERGENIC			
SNP_25918_A_29321416	NC_021163.1	Ca_Kabuli_Chr04	29321416	AA	TT	TT	INTERGENIC			
SNP_25919_A_29325295	NC_021163.1	Ca_Kabuli_Chr04	29325295	GG	AA	AA	INTERGENIC			
SNP_25920_A_29326084	NC_021163.1	Ca_Kabuli_Chr04	29326084	TT	GG	GG	INTERGENIC			
SNP_25921_A_29326100	NC_021163.1	Ca_Kabuli_Chr04	29326100	CC	TT	TT	INTERGENIC			
SNP_25922_A_29326572	NC_021163.1	Ca_Kabuli_Chr04	29326572	TT	CC	CC	INTERGENIC			
SNP_25923_A_29326889	NC_021163.1	Ca_Kabuli_Chr04	29326889	CC	AA	AA	INTERGENIC			
SNP_25924_A_29327656	NC_021163.1	Ca_Kabuli_Chr04	29327656	TT	CC	CC	INTERGENIC			
SNP_25925_A_29329268	NC_021163.1	Ca_Kabuli_Chr04	29329268	AA	GG	GG	INTERGENIC			
SNP_25926_A_29329524	NC_021163.1	Ca_Kabuli_Chr04	29329524	CC	TT	TT	INTERGENIC			
SNP_25927_A_29329832	NC_021163.1	Ca_Kabuli_Chr04	29329832	TT	CC	CC	INTERGENIC			
SNP_25928_A_29329860	NC_021163.1	Ca_Kabuli_Chr04	29329860	GG	TT	TT	INTERGENIC			
SNP_25929_A_29330012	NC_021163.1	Ca_Kabuli_Chr04	29330012	TT	CC	CC	INTERGENIC			
SNP_25931_A_29330265	NC_021163.1	Ca_Kabuli_Chr04	29330265	CC	AA	AA	INTERGENIC			
SNP_25932_A_29334387	NC_021163.1	Ca_Kabuli_Chr04	29334387	AA	GG	GG	INTERGENIC			
SNP_25933_A_29334435	NC_021163.1	Ca_Kabuli_Chr04	29334435	TT	CC	CC	INTERGENIC			
SNP_25934_A_29338541	NC_021163.1	Ca_Kabuli_Chr04	29338541	TT	CC	CC	INTERGENIC			
SNP_25935_A_29338931	NC_021163.1	Ca_Kabuli_Chr04	29338931	CC	TT	TT	INTERGENIC			
SNP_25937_A_29349220	NC_021163.1	Ca_Kabuli_Chr04	29349220	CC	AA	AA	INTERGENIC			
SNP_25938_A_29349288	NC_021163.1	Ca_Kabuli_Chr04	29349288	AA	GG	GG	INTERGENIC			
SNP_25939_A_29349360	NC_021163.1	Ca_Kabuli_Chr04	29349360	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_25940_A_29349386	NC_021163.1	Ca_Kabuli_Chr04	29349386	TT	GG	GG	INTERGENIC			
SNP_25941_A_29349443	NC_021163.1	Ca_Kabuli_Chr04	29349443	CC	TT	TT	INTERGENIC			
SNP_25942_A_29349604	NC_021163.1	Ca_Kabuli_Chr04	29349604	GG	TT	TT	INTERGENIC			
SNP_25943_A_29350981	NC_021163.1	Ca_Kabuli_Chr04	29350981	AA	TT	TT	INTERGENIC			
SNP_25944_A_29351273	NC_021163.1	Ca_Kabuli_Chr04	29351273	AA	GG	GG	INTERGENIC			
SNP_25945_A_29351293	NC_021163.1	Ca_Kabuli_Chr04	29351293	AA	GG	GG	INTERGENIC			
SNP_25947_A_29351629	NC_021163.1	Ca_Kabuli_Chr04	29351629	AA	GG	GG	INTERGENIC			
SNP_25949_A_29351728	NC_021163.1	Ca_Kabuli_Chr04	29351728	AA	GG	GG	INTERGENIC			
SNP_25951_A_29356158	NC_021163.1	Ca_Kabuli_Chr04	29356158	TT	CC	CC	INTERGENIC			
SNP_25953_A_29356238	NC_021163.1	Ca_Kabuli_Chr04	29356238	GG	AA	AA	INTERGENIC			
SNP_25955_A_29357366	NC_021163.1	Ca_Kabuli_Chr04	29357366	TT	AA	AA	INTERGENIC			
SNP_25956_A_29357620	NC_021163.1	Ca_Kabuli_Chr04	29357620	CC	AA	AA	INTERGENIC			
SNP_25957_A_29359252	NC_021163.1	Ca_Kabuli_Chr04	29359252	TT	AA	AA	INTERGENIC			
SNP_25959_A_29366114	NC_021163.1	Ca_Kabuli_Chr04	29366114	GG	AA	AA	INTERGENIC			
SNP_25961_A_29368779	NC_021163.1	Ca_Kabuli_Chr04	29368779	CC	TT	TT	INTERGENIC			
SNP_25962_A_29368792	NC_021163.1	Ca_Kabuli_Chr04	29368792	GG	AA	AA	INTERGENIC			
SNP_25963_A_29368822	NC_021163.1	Ca_Kabuli_Chr04	29368822	CC	TT	TT	INTERGENIC			
SNP_25964_A_29369054	NC_021163.1	Ca_Kabuli_Chr04	29369054	AA	GG	GG	INTERGENIC			
SNP_25966_A_29391474	NC_021163.1	Ca_Kabuli_Chr04	29391474	TT	GG	GG	INTERGENIC			
SNP_25967_A_29400754	NC_021163.1	Ca_Kabuli_Chr04	29400754	GG	AA	AA	INTERGENIC			
SNP_25968_A_29415669	NC_021163.1	Ca_Kabuli_Chr04	29415669	GG	AA	AA	URR	101505119	zinc finger protein 7-like	
SNP_25969_A_29416428	NC_021163.1	Ca_Kabuli_Chr04	29416428	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25970_A_29416442	NC_021163.1	Ca_Kabuli_Chr04	29416442	TT	CC	CC	INTERGENIC		
SNP_25971_A_29416444	NC_021163.1	Ca_Kabuli_Chr04	29416444	GG	AA	AA	INTERGENIC		
SNP_25972_A_29416901	NC_021163.1	Ca_Kabuli_Chr04	29416901	AA	GG	GG	INTERGENIC		
SNP_25974_A_29418241	NC_021163.1	Ca_Kabuli_Chr04	29418241	TT	GG	GG	INTERGENIC		
SNP_25977_A_29419929	NC_021163.1	Ca_Kabuli_Chr04	29419929	GG	AA	AA	INTERGENIC		
SNP_25978_A_29419933	NC_021163.1	Ca_Kabuli_Chr04	29419933	TT	CC	CC	INTERGENIC		
SNP_25979_A_29419964	NC_021163.1	Ca_Kabuli_Chr04	29419964	AA	TT	TT	INTERGENIC		
SNP_25980_A_29420332	NC_021163.1	Ca_Kabuli_Chr04	29420332	GG	CC	CC	INTERGENIC		
SNP_25982_A_29423618	NC_021163.1	Ca_Kabuli_Chr04	29423618	GG	AA	AA	INTERGENIC		
SNP_25983_A_29426287	NC_021163.1	Ca_Kabuli_Chr04	29426287	TT	AA	AA	INTERGENIC		
SNP_25985_A_29429036	NC_021163.1	Ca_Kabuli_Chr04	29429036	CC	TT	TT	INTERGENIC		
SNP_25986_A_29429672	NC_021163.1	Ca_Kabuli_Chr04	29429672	AA	GG	GG	INTERGENIC		
SNP_25987_A_29433159	NC_021163.1	Ca_Kabuli_Chr04	29433159	AA	GG	GG	INTERGENIC		
SNP_25988_A_29433360	NC_021163.1	Ca_Kabuli_Chr04	29433360	AA	GG	GG	INTERGENIC		
SNP_25989_A_29441675	NC_021163.1	Ca_Kabuli_Chr04	29441675	CC	TT	TT	INTERGENIC		
SNP_25990_A_29444655	NC_021163.1	Ca_Kabuli_Chr04	29444655	TT	CC	CC	INTERGENIC		
SNP_25991_A_29452375	NC_021163.1	Ca_Kabuli_Chr04	29452375	CC	TT	TT	INTERGENIC		
SNP_25992_A_29455652	NC_021163.1	Ca_Kabuli_Chr04	29455652	AA	CC	CC	INTERGENIC		
SNP_25993_A_29472301	NC_021163.1	Ca_Kabuli_Chr04	29472301	TT	CC	CC	DRR	101505442	28 kDa ribonucleoprotein, chloroplastic-like
SNP_25994_A_29473976	NC_021163.1	Ca_Kabuli_Chr04	29473976	AA	GG	GG	SYNONYMOUS_CODING	101505442	28 kDa ribonucleoprotein, chloroplastic-like
SNP_25995_A_29477954	NC_021163.1	Ca_Kabuli_Chr04	29477954	GG	AA	AA	INTERGENIC		
SNP_25996_A_29481187	NC_021163.1	Ca_Kabuli_Chr04	29481187	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_25997_A_29482750	NC_021163.1	Ca_Kabuli_Chr04	29482750	TT	CC	CC	INTERGENIC		
SNP_25998_A_29483102	NC_021163.1	Ca_Kabuli_Chr04	29483102	AA	TT	TT	INTERGENIC		
SNP_25999_A_29490702	NC_021163.1	Ca_Kabuli_Chr04	29490702	TT	GG	GG	INTERGENIC		
SNP_26000_A_29490800	NC_021163.1	Ca_Kabuli_Chr04	29490800	TT	AA	AA	INTERGENIC		
SNP_26001_A_29490826	NC_021163.1	Ca_Kabuli_Chr04	29490826	GG	AA	AA	INTERGENIC		
SNP_26002_A_29490839	NC_021163.1	Ca_Kabuli_Chr04	29490839	AA	GG	GG	INTERGENIC		
SNP_26003_A_29490857	NC_021163.1	Ca_Kabuli_Chr04	29490857	AA	GG	GG	INTERGENIC		
SNP_26004_A_29491024	NC_021163.1	Ca_Kabuli_Chr04	29491024	TT	GG	GG	INTERGENIC		
SNP_26005_A_29491031	NC_021163.1	Ca_Kabuli_Chr04	29491031	CC	TT	TT	INTERGENIC		
SNP_26006_A_29491130	NC_021163.1	Ca_Kabuli_Chr04	29491130	CC	TT	TT	INTERGENIC		
SNP_26008_A_29499002	NC_021163.1	Ca_Kabuli_Chr04	29499002	GG	CC	CC	INTERGENIC		
SNP_26009_A_29499912	NC_021163.1	Ca_Kabuli_Chr04	29499912	GG	AA	AA	INTERGENIC		
SNP_26010_A_29501252	NC_021163.1	Ca_Kabuli_Chr04	29501252	AA	GG	GG	INTERGENIC		
SNP_26012_A_29503551	NC_021163.1	Ca_Kabuli_Chr04	29503551	CC	TT	TT	DRR	101509517	uncharacterized LOC101509517
SNP_26013_A_29508005	NC_021163.1	Ca_Kabuli_Chr04	29508005	GG	AA	AA	URR	101509517	uncharacterized LOC101509517
SNP_26014_A_29509576	NC_021163.1	Ca_Kabuli_Chr04	29509576	AA	TT	TT	INTERGENIC		
SNP_26015_A_29510178	NC_021163.1	Ca_Kabuli_Chr04	29510178	AA	GG	GG	INTERGENIC		
SNP_26017_A_29519227	NC_021163.1	Ca_Kabuli_Chr04	29519227	AA	GG	GG	INTERGENIC		
SNP_26018_A_29519247	NC_021163.1	Ca_Kabuli_Chr04	29519247	TT	CC	CC	INTERGENIC		
SNP_26019_A_29520652	NC_021163.1	Ca_Kabuli_Chr04	29520652	GG	TT	TT	INTERGENIC		
SNP_26020_A_29521744	NC_021163.1	Ca_Kabuli_Chr04	29521744	GG	AA	AA	DRR	101509839	uncharacterized LOC101509839
SNP_26021_A_29528110	NC_021163.1	Ca_Kabuli_Chr04	29528110	TT	CC	CC	INTRON	101509839	uncharacterized LOC101509839

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26022_A_29534163	NC_021163.1	Ca_Kabuli_Chr04	29534163	CC	TT	TT	INTERGENIC			
SNP_26023_A_29534241	NC_021163.1	Ca_Kabuli_Chr04	29534241	GG	AA	AA	INTERGENIC			
SNP_26024_A_29539268	NC_021163.1	Ca_Kabuli_Chr04	29539268	CC	AA	AA	INTERGENIC			
SNP_26025_A_29543716	NC_021163.1	Ca_Kabuli_Chr04	29543716	CC	AA	AA	INTERGENIC			
SNP_26028_A_29547339	NC_021163.1	Ca_Kabuli_Chr04	29547339	AA	CC	CC	INTERGENIC			
SNP_26030_A_29551996	NC_021163.1	Ca_Kabuli_Chr04	29551996	GG	AA	AA	INTERGENIC			
SNP_26031_A_29558632	NC_021163.1	Ca_Kabuli_Chr04	29558632	CC	TT	TT	INTERGENIC			
SNP_26032_A_29564341	NC_021163.1	Ca_Kabuli_Chr04	29564341	GG	CC	CC	INTERGENIC			
SNP_26033_A_29564349	NC_021163.1	Ca_Kabuli_Chr04	29564349	TT	CC	CC	INTERGENIC			
SNP_26034_A_29564541	NC_021163.1	Ca_Kabuli_Chr04	29564541	CC	TT	TT	INTERGENIC			
SNP_26035_A_29564590	NC_021163.1	Ca_Kabuli_Chr04	29564590	CC	TT	TT	INTERGENIC			
SNP_26037_A_29564779	NC_021163.1	Ca_Kabuli_Chr04	29564779	CC	TT	TT	INTERGENIC			
SNP_26038_A_29564840	NC_021163.1	Ca_Kabuli_Chr04	29564840	GG	AA	AA	INTERGENIC			
SNP_26039_A_29566559	NC_021163.1	Ca_Kabuli_Chr04	29566559	CC	TT	TT	INTERGENIC			
SNP_26041_A_29571385	NC_021163.1	Ca_Kabuli_Chr04	29571385	GG	AA	AA	INTERGENIC			
SNP_26042_A_29571466	NC_021163.1	Ca_Kabuli_Chr04	29571466	TT	AA	AA	INTERGENIC			
SNP_26043_A_29575141	NC_021163.1	Ca_Kabuli_Chr04	29575141	TT	AA	AA	INTERGENIC			
SNP_26044_A_29575365	NC_021163.1	Ca_Kabuli_Chr04	29575365	AA	CC	CC	INTERGENIC			
SNP_26045_A_29575416	NC_021163.1	Ca_Kabuli_Chr04	29575416	GG	TT	TT	INTERGENIC			
SNP_26046_A_29575420	NC_021163.1	Ca_Kabuli_Chr04	29575420	AA	TT	TT	INTERGENIC			
SNP_26048_A_29584417	NC_021163.1	Ca_Kabuli_Chr04	29584417	TT	CC	CC	INTERGENIC			
SNP_26049_A_29602773	NC_021163.1	Ca_Kabuli_Chr04	29602773	GG	AA	AA	URR		101510922	E3 ubiquitin-protein ligase SINAT2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26050_A_29602919	NC_021163.1	Ca_Kabuli_Chr04	29602919	GG	AA	AA	URR	101510922	E3 ubiquitin-protein ligase SINAT2-like
SNP_26051_A_29602975	NC_021163.1	Ca_Kabuli_Chr04	29602975	AA	GG	GG	URR	101510922	E3 ubiquitin-protein ligase SINAT2-like
SNP_26052_A_29602989	NC_021163.1	Ca_Kabuli_Chr04	29602989	TT	AA	AA	URR	101510922	E3 ubiquitin-protein ligase SINAT2-like
SNP_26053_A_29605527	NC_021163.1	Ca_Kabuli_Chr04	29605527	TT	CC	CC	INTERGENIC		
SNP_26054_A_29618577	NC_021163.1	Ca_Kabuli_Chr04	29618577	TT	GG	GG	INTERGENIC		
SNP_26055_A_29618654	NC_021163.1	Ca_Kabuli_Chr04	29618654	AA	GG	GG	INTERGENIC		
SNP_26056_A_29618965	NC_021163.1	Ca_Kabuli_Chr04	29618965	CC	TT	TT	INTERGENIC		
SNP_26057_A_29618974	NC_021163.1	Ca_Kabuli_Chr04	29618974	TT	GG	GG	INTERGENIC		
SNP_26058_A_29618975	NC_021163.1	Ca_Kabuli_Chr04	29618975	CC	TT	TT	INTERGENIC		
SNP_26059_A_29619069	NC_021163.1	Ca_Kabuli_Chr04	29619069	CC	AA	AA	INTERGENIC		
SNP_26061_A_29619239	NC_021163.1	Ca_Kabuli_Chr04	29619239	TT	CC	CC	INTERGENIC		
SNP_26062_A_29619252	NC_021163.1	Ca_Kabuli_Chr04	29619252	CC	TT	TT	INTERGENIC		
SNP_26063_A_29620624	NC_021163.1	Ca_Kabuli_Chr04	29620624	CC	TT	TT	INTERGENIC		
SNP_26065_A_29625418	NC_021163.1	Ca_Kabuli_Chr04	29625418	AA	CC	CC	INTERGENIC		
SNP_26066_A_29625433	NC_021163.1	Ca_Kabuli_Chr04	29625433	AA	GG	GG	INTERGENIC		
SNP_26068_A_29626630	NC_021163.1	Ca_Kabuli_Chr04	29626630	TT	GG	GG	INTERGENIC		
SNP_26069_A_29626802	NC_021163.1	Ca_Kabuli_Chr04	29626802	GG	AA	AA	INTERGENIC		
SNP_26071_A_29639234	NC_021163.1	Ca_Kabuli_Chr04	29639234	GG	AA	AA	INTERGENIC		
SNP_26073_A_29640388	NC_021163.1	Ca_Kabuli_Chr04	29640388	GG	AA	AA	INTERGENIC		
SNP_26074_A_29641472	NC_021163.1	Ca_Kabuli_Chr04	29641472	TT	CC	CC	INTERGENIC		
SNP_26075_A_29644066	NC_021163.1	Ca_Kabuli_Chr04	29644066	CC	TT	TT	DRR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like
SNP_26076_A_29646966	NC_021163.1	Ca_Kabuli_Chr04	29646966	GG	AA	AA	URR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26077_A_29647835	NC_021163.1	Ca_Kabuli_Chr04	29647835	GG	AA	AA	URR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like
SNP_26078_A_29647884	NC_021163.1	Ca_Kabuli_Chr04	29647884	TT	AA	AA	URR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like
SNP_26079_A_29648237	NC_021163.1	Ca_Kabuli_Chr04	29648237	TT	CC	CC	URR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like
SNP_26080_A_29648259	NC_021163.1	Ca_Kabuli_Chr04	29648259	CC	TT	TT	URR	101511432	activator of 90 kDa heat shock protein ATPase homolog 1-like
SNP_26081_A_29652595	NC_021163.1	Ca_Kabuli_Chr04	29652595	TT	CC	CC	INTERGENIC		
SNP_26082_A_29652838	NC_021163.1	Ca_Kabuli_Chr04	29652838	GG	AA	AA	INTERGENIC		
SNP_26083_A_29653075	NC_021163.1	Ca_Kabuli_Chr04	29653075	AA	CC	CC	INTERGENIC		
SNP_26084_A_29653155	NC_021163.1	Ca_Kabuli_Chr04	29653155	CC	TT	TT	INTERGENIC		
SNP_26085_A_29653797	NC_021163.1	Ca_Kabuli_Chr04	29653797	GG	AA	AA	INTERGENIC		
SNP_26086_A_29653813	NC_021163.1	Ca_Kabuli_Chr04	29653813	CC	TT	TT	INTERGENIC		
SNP_26087_A_29654837	NC_021163.1	Ca_Kabuli_Chr04	29654837	GG	AA	AA	INTERGENIC		
SNP_26088_A_29656422	NC_021163.1	Ca_Kabuli_Chr04	29656422	GG	AA	AA	INTERGENIC		
SNP_26089_A_29656765	NC_021163.1	Ca_Kabuli_Chr04	29656765	CC	TT	TT	INTERGENIC		
SNP_26091_A_29659255	NC_021163.1	Ca_Kabuli_Chr04	29659255	AA	GG	GG	INTERGENIC		
SNP_26092_A_29659258	NC_021163.1	Ca_Kabuli_Chr04	29659258	GG	AA	AA	INTERGENIC		
SNP_26093_A_29660754	NC_021163.1	Ca_Kabuli_Chr04	29660754	GG	AA	AA	INTERGENIC		
SNP_26094_A_29670010	NC_021163.1	Ca_Kabuli_Chr04	29670010	GG	AA	AA	INTERGENIC		
SNP_26095_A_29671363	NC_021163.1	Ca_Kabuli_Chr04	29671363	CC	TT	TT	INTERGENIC		
SNP_26096_A_29671990	NC_021163.1	Ca_Kabuli_Chr04	29671990	CC	TT	TT	DRR	101511764	centromere-associated protein E
SNP_26097_A_29674884	NC_021163.1	Ca_Kabuli_Chr04	29674884	GG	AA	AA	INTRON	101511764	centromere-associated protein E
SNP_26098_A_29680412	NC_021163.1	Ca_Kabuli_Chr04	29680412	TT	CC	CC	INTRON	101511764	centromere-associated protein E
SNP_26100_A_29684633	NC_021163.1	Ca_Kabuli_Chr04	29684633	TT	CC	CC	INTRON	101511764	centromere-associated protein E

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26102_A_29686848	NC_021163.1	Ca_Kabuli_Chr04	29686848	CC	AA	AA	INTRON	101511764	centromere-associated protein E
SNP_26104_A_29700681	NC_021163.1	Ca_Kabuli_Chr04	29700681	GG	AA	AA	URR	101511764	centromere-associated protein E
SNP_26106_A_29702101	NC_021163.1	Ca_Kabuli_Chr04	29702101	TT	CC	CC	INTERGENIC		
SNP_26107_A_29702105	NC_021163.1	Ca_Kabuli_Chr04	29702105	GG	TT	TT	INTERGENIC		
SNP_26109_A_29702439	NC_021163.1	Ca_Kabuli_Chr04	29702439	AA	GG	GG	INTERGENIC		
SNP_26110_A_29702460	NC_021163.1	Ca_Kabuli_Chr04	29702460	CC	TT	TT	INTERGENIC		
SNP_26111_A_29703282	NC_021163.1	Ca_Kabuli_Chr04	29703282	TT	AA	AA	INTERGENIC		
SNP_26112_A_29711467	NC_021163.1	Ca_Kabuli_Chr04	29711467	AA	GG	GG	INTERGENIC		
SNP_26113_A_29715615	NC_021163.1	Ca_Kabuli_Chr04	29715615	TT	GG	GG	INTERGENIC		
SNP_26114_A_29715781	NC_021163.1	Ca_Kabuli_Chr04	29715781	CC	TT	TT	INTERGENIC		
SNP_26115_A_29716050	NC_021163.1	Ca_Kabuli_Chr04	29716050	TT	GG	GG	INTERGENIC		
SNP_26116_A_29716693	NC_021163.1	Ca_Kabuli_Chr04	29716693	TT	CC	CC	INTERGENIC		
SNP_26117_A_29716776	NC_021163.1	Ca_Kabuli_Chr04	29716776	TT	CC	CC	INTERGENIC		
SNP_26120_A_29722288	NC_021163.1	Ca_Kabuli_Chr04	29722288	AA	GG	GG	URR	101512080	protein trichome birefringence-like
SNP_26121_A_29722567	NC_021163.1	Ca_Kabuli_Chr04	29722567	AA	GG	GG	URR	101512080	protein trichome birefringence-like
SNP_26122_A_29722588	NC_021163.1	Ca_Kabuli_Chr04	29722588	AA	CC	CC	URR	101512080	protein trichome birefringence-like
SNP_26123_A_29722604	NC_021163.1	Ca_Kabuli_Chr04	29722604	CC	TT	TT	URR	101512080	protein trichome birefringence-like
SNP_26124_A_29722607	NC_021163.1	Ca_Kabuli_Chr04	29722607	TT	CC	CC	URR	101512080	protein trichome birefringence-like
SNP_26125_A_29747755	NC_021163.1	Ca_Kabuli_Chr04	29747755	CC	GG	GG	INTERGENIC		
SNP_26127_A_29762505	NC_021163.1	Ca_Kabuli_Chr04	29762505	CC	TT	TT	INTERGENIC		
SNP_26128_A_29762507	NC_021163.1	Ca_Kabuli_Chr04	29762507	GG	TT	TT	INTERGENIC		
SNP_26129_A_29762509	NC_021163.1	Ca_Kabuli_Chr04	29762509	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26130_A_29769366	NC_021163.1	Ca_Kabuli_Chr04	29769366	AA	CC	CC	INTERGENIC		
SNP_26131_A_29771364	NC_021163.1	Ca_Kabuli_Chr04	29771364	AA	CC	CC	INTERGENIC		
SNP_26132_A_29771602	NC_021163.1	Ca_Kabuli_Chr04	29771602	AA	CC	CC	INTERGENIC		
SNP_26133_A_29771810	NC_021163.1	Ca_Kabuli_Chr04	29771810	AA	TT	TT	INTERGENIC		
SNP_26135_A_29784257	NC_021163.1	Ca_Kabuli_Chr04	29784257	GG	AA	AA	INTERGENIC		
SNP_26137_A_29794119	NC_021163.1	Ca_Kabuli_Chr04	29794119	TT	AA	AA	INTERGENIC		
SNP_26138_A_29803660	NC_021163.1	Ca_Kabuli_Chr04	29803660	AA	CC	CC	SYNONYMOUS_CODING	101506090	Unknown function
SNP_26139_A_29805092	NC_021163.1	Ca_Kabuli_Chr04	29805092	AA	TT	TT	INTRON	101506090	Unknown function
SNP_26140_A_29805204	NC_021163.1	Ca_Kabuli_Chr04	29805204	GG	AA	AA	NON_SYNONYMOUS_CODING	101506090	Unknown function
SNP_26141_A_29820145	NC_021163.1	Ca_Kabuli_Chr04	29820145	GG	TT	TT	INTERGENIC		
SNP_26142_A_29821599	NC_021163.1	Ca_Kabuli_Chr04	29821599	GG	TT	TT	INTERGENIC		
SNP_26144_A_29826330	NC_021163.1	Ca_Kabuli_Chr04	29826330	AA	GG	GG	INTERGENIC		
SNP_26145_A_29832274	NC_021163.1	Ca_Kabuli_Chr04	29832274	TT	CC	CC	INTERGENIC		
SNP_26146_A_29851520	NC_021163.1	Ca_Kabuli_Chr04	29851520	AA	GG	GG	INTERGENIC		
SNP_26147_A_29851737	NC_021163.1	Ca_Kabuli_Chr04	29851737	TT	CC	CC	INTERGENIC		
SNP_26149_A_29859792	NC_021163.1	Ca_Kabuli_Chr04	29859792	CC	TT	TT	INTERGENIC		
SNP_26150_A_29859960	NC_021163.1	Ca_Kabuli_Chr04	29859960	GG	AA	AA	INTERGENIC		
SNP_26152_A_29875712	NC_021163.1	Ca_Kabuli_Chr04	29875712	GG	TT	TT	INTERGENIC		
SNP_26153_A_29875756	NC_021163.1	Ca_Kabuli_Chr04	29875756	GG	CC	CC	INTERGENIC		
SNP_26154_A_29876292	NC_021163.1	Ca_Kabuli_Chr04	29876292	AA	GG	GG	INTERGENIC		
SNP_26155_A_29885108	NC_021163.1	Ca_Kabuli_Chr04	29885108	CC	TT	TT	INTERGENIC		
SNP_26156_A_29885695	NC_021163.1	Ca_Kabuli_Chr04	29885695	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26158_A_29886744	NC_021163.1	Ca_Kabuli_Chr04	29886744	CC	TT	TT	INTERGENIC		
SNP_26159_A_29886761	NC_021163.1	Ca_Kabuli_Chr04	29886761	GG	AA	AA	INTERGENIC		
SNP_26160_A_29900191	NC_021163.1	Ca_Kabuli_Chr04	29900191	CC	TT	TT	INTERGENIC		
SNP_26161_A_29900266	NC_021163.1	Ca_Kabuli_Chr04	29900266	TT	AA	AA	INTERGENIC		
SNP_26163_A_29900787	NC_021163.1	Ca_Kabuli_Chr04	29900787	TT	AA	AA	INTERGENIC		
SNP_26164_A_29902511	NC_021163.1	Ca_Kabuli_Chr04	29902511	TT	GG	GG	INTERGENIC		
SNP_26165_A_29907943	NC_021163.1	Ca_Kabuli_Chr04	29907943	AA	TT	TT	URR	101512726	peroxidase A2-like
SNP_26166_A_29907944	NC_021163.1	Ca_Kabuli_Chr04	29907944	TT	GG	GG	URR	101512726	peroxidase A2-like
SNP_26168_A_29925504	NC_021163.1	Ca_Kabuli_Chr04	29925504	GG	TT	TT	URR	101513054	peroxidase A2-like
SNP_26169_A_29930748	NC_021163.1	Ca_Kabuli_Chr04	29930748	CC	TT	TT	DRR	101513380	Unknown function
SNP_26170_A_29930916	NC_021163.1	Ca_Kabuli_Chr04	29930916	AA	CC	CC	DRR	101513380	Unknown function
SNP_26171_A_29931040	NC_021163.1	Ca_Kabuli_Chr04	29931040	CC	TT	TT	DRR	101513380	Unknown function
SNP_26172_A_29931103	NC_021163.1	Ca_Kabuli_Chr04	29931103	AA	GG	GG	INTERGENIC		
SNP_26173_A_29931374	NC_021163.1	Ca_Kabuli_Chr04	29931374	TT	GG	GG	INTERGENIC		
SNP_26174_A_29932374	NC_021163.1	Ca_Kabuli_Chr04	29932374	GG	CC	CC	DRR	101513694	Unknown function
SNP_26176_A_29932843	NC_021163.1	Ca_Kabuli_Chr04	29932843	GG	TT	TT	DRR	101513694	Unknown function
SNP_26177_A_29932863	NC_021163.1	Ca_Kabuli_Chr04	29932863	TT	CC	CC	DRR	101513694	Unknown function
SNP_26178_A_29932885	NC_021163.1	Ca_Kabuli_Chr04	29932885	AA	CC	CC	DRR	101513694	Unknown function
SNP_26179_A_29932895	NC_021163.1	Ca_Kabuli_Chr04	29932895	AA	TT	TT	DRR	101513694	Unknown function
SNP_26180_A_29933037	NC_021163.1	Ca_Kabuli_Chr04	29933037	AA	GG	GG	DRR	101513694	Unknown function
SNP_26181_A_29933372	NC_021163.1	Ca_Kabuli_Chr04	29933372	GG	CC	CC	DRR	101507080	Unknown function
SNP_26182_A_29933678	NC_021163.1	Ca_Kabuli_Chr04	29933678	AA	GG	GG	DRR	101507080	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26183_A_29933718	NC_021163.1	Ca_Kabuli_Chr04	29933718	CC	GG	GG	DRR	101507080	Unknown function
SNP_26184_A_29933734	NC_021163.1	Ca_Kabuli_Chr04	29933734	AA	CC	CC	DRR	101507080	Unknown function
SNP_26186_A_29933794	NC_021163.1	Ca_Kabuli_Chr04	29933794	TT	GG	GG	DRR	101507080	Unknown function
SNP_26187_A_29933800	NC_021163.1	Ca_Kabuli_Chr04	29933800	GG	TT	TT	DRR	101507080	Unknown function
SNP_26188_A_29934081	NC_021163.1	Ca_Kabuli_Chr04	29934081	TT	CC	CC	URR	101513694	Unknown function
SNP_26189_A_29934139	NC_021163.1	Ca_Kabuli_Chr04	29934139	AA	GG	GG	URR	101513694	Unknown function
SNP_26190_A_29934143	NC_021163.1	Ca_Kabuli_Chr04	29934143	TT	CC	CC	URR	101513694	Unknown function
SNP_26191_A_29934176	NC_021163.1	Ca_Kabuli_Chr04	29934176	GG	CC	CC	URR	101513694	Unknown function
SNP_26192_A_29934197	NC_021163.1	Ca_Kabuli_Chr04	29934197	TT	CC	CC	URR	101513694	Unknown function
SNP_26193_A_29934403	NC_021163.1	Ca_Kabuli_Chr04	29934403	GG	TT	TT	URR	101513694	Unknown function
SNP_26194_A_29934405	NC_021163.1	Ca_Kabuli_Chr04	29934405	AA	CC	CC	URR	101513694	Unknown function
SNP_26195_A_29934425	NC_021163.1	Ca_Kabuli_Chr04	29934425	TT	AA	AA	URR	101513694	Unknown function
SNP_26196_A_29934561	NC_021163.1	Ca_Kabuli_Chr04	29934561	GG	TT	TT	URR	101513694	Unknown function
SNP_26197_A_29936472	NC_021163.1	Ca_Kabuli_Chr04	29936472	TT	CC	CC	URR	101507080	Unknown function
SNP_26198_A_29939231	NC_021163.1	Ca_Kabuli_Chr04	29939231	GG	TT	TT	INTERGENIC		
SNP_26199_A_29939273	NC_021163.1	Ca_Kabuli_Chr04	29939273	AA	GG	GG	INTERGENIC		
SNP_26200_A_29940130	NC_021163.1	Ca_Kabuli_Chr04	29940130	CC	TT	TT	INTERGENIC		
SNP_26202_A_29942480	NC_021163.1	Ca_Kabuli_Chr04	29942480	TT	CC	CC	INTERGENIC		
SNP_26203_A_29942529	NC_021163.1	Ca_Kabuli_Chr04	29942529	CC	GG	GG	INTERGENIC		
SNP_26204_A_29942545	NC_021163.1	Ca_Kabuli_Chr04	29942545	TT	CC	CC	INTERGENIC		
SNP_26205_A_29943003	NC_021163.1	Ca_Kabuli_Chr04	29943003	AA	TT	TT	INTERGENIC		
SNP_26206_A_29943004	NC_021163.1	Ca_Kabuli_Chr04	29943004	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26207_A_29943245	NC_021163.1	Ca_Kabuli_Chr04	29943245	AA	CC	CC	INTERGENIC			
SNP_26208_A_29943402	NC_021163.1	Ca_Kabuli_Chr04	29943402	CC	TT	TT	INTERGENIC			
SNP_26209_A_29943403	NC_021163.1	Ca_Kabuli_Chr04	29943403	GG	AA	AA	INTERGENIC			
SNP_26210_A_29943794	NC_021163.1	Ca_Kabuli_Chr04	29943794	CC	AA	AA	INTERGENIC			
SNP_26211_A_29944382	NC_021163.1	Ca_Kabuli_Chr04	29944382	GG	CC	CC	INTERGENIC			
SNP_26212_A_29945900	NC_021163.1	Ca_Kabuli_Chr04	29945900	TT	AA	AA	INTERGENIC			
SNP_26213_A_29961394	NC_021163.1	Ca_Kabuli_Chr04	29961394	TT	CC	CC	INTERGENIC			
SNP_26214_A_29961401	NC_021163.1	Ca_Kabuli_Chr04	29961401	CC	TT	TT	INTERGENIC			
SNP_26215_A_29961897	NC_021163.1	Ca_Kabuli_Chr04	29961897	AA	GG	GG	INTERGENIC			
SNP_26216_A_29979601	NC_021163.1	Ca_Kabuli_Chr04	29979601	TT	CC	CC	INTERGENIC			
SNP_26217_A_29985667	NC_021163.1	Ca_Kabuli_Chr04	29985667	AA	TT	TT	INTERGENIC			
SNP_26218_A_29985691	NC_021163.1	Ca_Kabuli_Chr04	29985691	CC	AA	AA	INTERGENIC			
SNP_26220_A_29987939	NC_021163.1	Ca_Kabuli_Chr04	29987939	GG	TT	TT	INTRON	id85867	Unknown function	
SNP_26221_A_29987940	NC_021163.1	Ca_Kabuli_Chr04	29987940	CC	AA	AA	INTRON	id85867	Unknown function	
SNP_26222_A_29987948	NC_021163.1	Ca_Kabuli_Chr04	29987948	AA	CC	CC	INTRON	id85867	Unknown function	
SNP_26223_A_29987956	NC_021163.1	Ca_Kabuli_Chr04	29987956	CC	TT	TT	INTRON	id85867	Unknown function	
SNP_26224_A_30005759	NC_021163.1	Ca_Kabuli_Chr04	30005759	GG	AA	AA	INTERGENIC			
SNP_26225_A_30005763	NC_021163.1	Ca_Kabuli_Chr04	30005763	TT	GG	GG	INTERGENIC			
SNP_26226_A_30009241	NC_021163.1	Ca_Kabuli_Chr04	30009241	CC	AA	AA	INTERGENIC			
SNP_26227_A_30019888	NC_021163.1	Ca_Kabuli_Chr04	30019888	TT	CC	CC	INTERGENIC			
SNP_26228_A_30019892	NC_021163.1	Ca_Kabuli_Chr04	30019892	AA	GG	GG	INTERGENIC			
SNP_26229_A_30019895	NC_021163.1	Ca_Kabuli_Chr04	30019895	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26230_A_30019941	NC_021163.1	Ca_Kabuli_Chr04	30019941	GG	TT	TT	INTERGENIC		
SNP_26231_A_30019956	NC_021163.1	Ca_Kabuli_Chr04	30019956	GG	TT	TT	INTERGENIC		
SNP_26232_A_30025676	NC_021163.1	Ca_Kabuli_Chr04	30025676	TT	CC	CC	INTERGENIC		
SNP_26233_A_30025708	NC_021163.1	Ca_Kabuli_Chr04	30025708	AA	GG	GG	INTERGENIC		
SNP_26234_A_30025716	NC_021163.1	Ca_Kabuli_Chr04	30025716	TT	CC	CC	INTERGENIC		
SNP_26235_A_30025751	NC_021163.1	Ca_Kabuli_Chr04	30025751	CC	TT	TT	INTERGENIC		
SNP_26237_A_30033348	NC_021163.1	Ca_Kabuli_Chr04	30033348	GG	TT	TT	INTERGENIC		
SNP_26238_A_30033429	NC_021163.1	Ca_Kabuli_Chr04	30033429	GG	CC	CC	INTERGENIC		
SNP_26239_A_30042887	NC_021163.1	Ca_Kabuli_Chr04	30042887	CC	AA	AA	NON_SYNONYMOUS_CODING	101514267	probable L-type lectin-domain containing receptor kinase S.5
SNP_26240_A_30042921	NC_021163.1	Ca_Kabuli_Chr04	30042921	CC	TT	TT	SYNONYMOUS_CODING	101514267	probable L-type lectin-domain containing receptor kinase S.5
SNP_26242_A_30046009	NC_021163.1	Ca_Kabuli_Chr04	30046009	TT	AA	AA	URR	101514267	probable L-type lectin-domain containing receptor kinase S.5
SNP_26244_A_30047154	NC_021163.1	Ca_Kabuli_Chr04	30047154	TT	AA	AA	INTERGENIC		
SNP_26245_A_30049368	NC_021163.1	Ca_Kabuli_Chr04	30049368	TT	CC	CC	INTERGENIC		
SNP_26246_A_30050904	NC_021163.1	Ca_Kabuli_Chr04	30050904	GG	AA	AA	INTERGENIC		
SNP_26247_A_30055018	NC_021163.1	Ca_Kabuli_Chr04	30055018	GG	AA	AA	INTERGENIC		
SNP_26248_A_30060330	NC_021163.1	Ca_Kabuli_Chr04	30060330	GG	AA	AA	INTERGENIC		
SNP_26249_A_30073274	NC_021163.1	Ca_Kabuli_Chr04	30073274	AA	GG	GG	INTERGENIC		
SNP_26250_A_30074960	NC_021163.1	Ca_Kabuli_Chr04	30074960	GG	AA	AA	INTERGENIC		
SNP_26252_A_30075871	NC_021163.1	Ca_Kabuli_Chr04	30075871	GG	AA	AA	INTERGENIC		
SNP_26253_A_30076753	NC_021163.1	Ca_Kabuli_Chr04	30076753	CC	TT	TT	INTERGENIC		
SNP_26255_A_30078123	NC_021163.1	Ca_Kabuli_Chr04	30078123	AA	GG	GG	INTERGENIC		
SNP_26256_A_30080423	NC_021163.1	Ca_Kabuli_Chr04	30080423	TT	CC	CC	INTRON	id85880	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26257_A_30080426	NC_021163.1	Ca_Kabuli_Chr04	30080426	CC	AA	AA	INTRON	id85880	Unknown function
SNP_26258_A_30082701	NC_021163.1	Ca_Kabuli_Chr04	30082701	GG	AA	AA	NON_SYNONYMOUS_CODING	id85880	Unknown function
SNP_26260_A_30085411	NC_021163.1	Ca_Kabuli_Chr04	30085411	AA	GG	GG	URR	101514906	uncharacterized LOC101514906
SNP_26263_A_30086961	NC_021163.1	Ca_Kabuli_Chr04	30086961	AA	CC	CC	INTERGENIC		
SNP_26264_A_30086966	NC_021163.1	Ca_Kabuli_Chr04	30086966	TT	CC	CC	INTERGENIC		
SNP_26265_A_30087209	NC_021163.1	Ca_Kabuli_Chr04	30087209	AA	GG	GG	INTERGENIC		
SNP_26266_A_30096648	NC_021163.1	Ca_Kabuli_Chr04	30096648	AA	GG	GG	INTERGENIC		
SNP_26267_A_30097454	NC_021163.1	Ca_Kabuli_Chr04	30097454	GG	AA	AA	INTERGENIC		
SNP_26269_A_30102025	NC_021163.1	Ca_Kabuli_Chr04	30102025	GG	TT	TT	DRR	101515111	probable protein phosphatase 2C 25
SNP_26270_A_30102048	NC_021163.1	Ca_Kabuli_Chr04	30102048	TT	GG	GG	DRR	101515111	probable protein phosphatase 2C 25
SNP_26271_A_30102049	NC_021163.1	Ca_Kabuli_Chr04	30102049	CC	TT	TT	DRR	101515111	probable protein phosphatase 2C 25
SNP_26272_A_30102116	NC_021163.1	Ca_Kabuli_Chr04	30102116	AA	GG	GG	DRR	101515111	probable protein phosphatase 2C 25
SNP_26273_A_30102341	NC_021163.1	Ca_Kabuli_Chr04	30102341	GG	AA	AA	DRR	101515111	probable protein phosphatase 2C 25
SNP_26274_A_30107431	NC_021163.1	Ca_Kabuli_Chr04	30107431	AA	GG	GG	DRR	101515664	actin-97
SNP_26275_A_30107453	NC_021163.1	Ca_Kabuli_Chr04	30107453	CC	TT	TT	DRR	101515664	actin-97
SNP_26276_A_30111815	NC_021163.1	Ca_Kabuli_Chr04	30111815	AA	CC	CC	URR	101515664	actin-97
SNP_26277_A_30116775	NC_021163.1	Ca_Kabuli_Chr04	30116775	TT	CC	CC	INTERGENIC		
SNP_26278_A_30116813	NC_021163.1	Ca_Kabuli_Chr04	30116813	AA	TT	TT	INTERGENIC		
SNP_26279_A_30117018	NC_021163.1	Ca_Kabuli_Chr04	30117018	AA	GG	GG	INTERGENIC		
SNP_26280_A_30117023	NC_021163.1	Ca_Kabuli_Chr04	30117023	CC	GG	GG	INTERGENIC		
SNP_26281_A_30117063	NC_021163.1	Ca_Kabuli_Chr04	30117063	CC	TT	TT	INTERGENIC		
SNP_26282_A_30118013	NC_021163.1	Ca_Kabuli_Chr04	30118013	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26283_A_30118046	NC_021163.1	Ca_Kabuli_Chr04	30118046	AA	GG	GG	INTERGENIC			
SNP_26284_A_30118055	NC_021163.1	Ca_Kabuli_Chr04	30118055	GG	AA	AA	INTERGENIC			
SNP_26286_A_30118706	NC_021163.1	Ca_Kabuli_Chr04	30118706	GG	AA	AA	INTERGENIC			
SNP_26287_A_30119008	NC_021163.1	Ca_Kabuli_Chr04	30119008	TT	CC	CC	INTERGENIC			
SNP_26288_A_30119397	NC_021163.1	Ca_Kabuli_Chr04	30119397	CC	TT	TT	INTERGENIC			
SNP_26289_A_30120224	NC_021163.1	Ca_Kabuli_Chr04	30120224	GG	AA	AA	INTERGENIC			
SNP_26290_A_30120254	NC_021163.1	Ca_Kabuli_Chr04	30120254	GG	TT	TT	INTERGENIC			
SNP_26292_A_30120593	NC_021163.1	Ca_Kabuli_Chr04	30120593	TT	CC	CC	INTERGENIC			
SNP_26293_A_30120651	NC_021163.1	Ca_Kabuli_Chr04	30120651	TT	CC	CC	INTERGENIC			
SNP_26295_A_30120709	NC_021163.1	Ca_Kabuli_Chr04	30120709	CC	TT	TT	INTERGENIC			
SNP_26297_A_30125409	NC_021163.1	Ca_Kabuli_Chr04	30125409	GG	AA	AA	INTERGENIC			
SNP_26298_A_30125960	NC_021163.1	Ca_Kabuli_Chr04	30125960	GG	AA	AA	INTERGENIC			
SNP_26300_A_30134467	NC_021163.1	Ca_Kabuli_Chr04	30134467	TT	CC	CC	INTERGENIC			
SNP_26301_A_30138427	NC_021163.1	Ca_Kabuli_Chr04	30138427	GG	AA	AA	INTERGENIC			
SNP_26302_A_30138865	NC_021163.1	Ca_Kabuli_Chr04	30138865	CC	TT	TT	INTERGENIC			
SNP_26303_A_30139170	NC_021163.1	Ca_Kabuli_Chr04	30139170	GG	AA	AA	INTERGENIC			
SNP_26304_A_30139203	NC_021163.1	Ca_Kabuli_Chr04	30139203	TT	CC	CC	INTERGENIC			
SNP_26305_A_30140083	NC_021163.1	Ca_Kabuli_Chr04	30140083	TT	GG	GG	INTERGENIC			
SNP_26306_A_30140860	NC_021163.1	Ca_Kabuli_Chr04	30140860	AA	CC	CC	INTERGENIC			
SNP_26308_A_30142340	NC_021163.1	Ca_Kabuli_Chr04	30142340	TT	AA	AA	INTERGENIC			
SNP_26309_A_30142343	NC_021163.1	Ca_Kabuli_Chr04	30142343	GG	CC	CC	INTERGENIC			
SNP_26310_A_30143775	NC_021163.1	Ca_Kabuli_Chr04	30143775	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26311_A_30148017	NC_021163.1	Ca_Kabuli_Chr04	30148017	TT	AA	AA	INTRON	101488751	probable plastid-lipid-associated protein 13, chloroplastic
SNP_26313_A_30149278	NC_021163.1	Ca_Kabuli_Chr04	30149278	TT	AA	AA	INTRON	101488751	probable plastid-lipid-associated protein 13, chloroplastic
SNP_26314_A_30149318	NC_021163.1	Ca_Kabuli_Chr04	30149318	TT	CC	CC	INTRON	101488751	probable plastid-lipid-associated protein 13, chloroplastic
SNP_26315_A_30149705	NC_021163.1	Ca_Kabuli_Chr04	30149705	TT	AA	AA	INTRON	101488751	probable plastid-lipid-associated protein 13, chloroplastic
SNP_26316_A_30152236	NC_021163.1	Ca_Kabuli_Chr04	30152236	TT	CC	CC	DRR	101488418	Unknown function
SNP_26317_A_30152739	NC_021163.1	Ca_Kabuli_Chr04	30152739	AA	GG	GG	NON_SYNONYMOUS_CODING	101488418	Unknown function
SNP_26318_A_30152959	NC_021163.1	Ca_Kabuli_Chr04	30152959	CC	TT	TT	NON_SYNONYMOUS_CODING	101488418	Unknown function
SNP_26319_A_30171014	NC_021163.1	Ca_Kabuli_Chr04	30171014	AA	CC	CC	INTERGENIC		
SNP_26320_A_30171038	NC_021163.1	Ca_Kabuli_Chr04	30171038	TT	AA	AA	INTERGENIC		
SNP_26321_A_30171404	NC_021163.1	Ca_Kabuli_Chr04	30171404	AA	TT	TT	INTERGENIC		
SNP_26322_A_30171671	NC_021163.1	Ca_Kabuli_Chr04	30171671	TT	CC	CC	INTERGENIC		
SNP_26323_A_30171681	NC_021163.1	Ca_Kabuli_Chr04	30171681	AA	CC	CC	INTERGENIC		
SNP_26324_A_30171713	NC_021163.1	Ca_Kabuli_Chr04	30171713	TT	CC	CC	INTERGENIC		
SNP_26326_A_30171902	NC_021163.1	Ca_Kabuli_Chr04	30171902	CC	GG	GG	INTERGENIC		
SNP_26327_A_30171974	NC_021163.1	Ca_Kabuli_Chr04	30171974	AA	TT	TT	INTERGENIC		
SNP_26328_A_30171977	NC_021163.1	Ca_Kabuli_Chr04	30171977	TT	CC	CC	INTERGENIC		
SNP_26329_A_30171978	NC_021163.1	Ca_Kabuli_Chr04	30171978	TT	CC	CC	INTERGENIC		
SNP_26330_A_30172144	NC_021163.1	Ca_Kabuli_Chr04	30172144	AA	GG	GG	INTERGENIC		
SNP_26331_A_30172660	NC_021163.1	Ca_Kabuli_Chr04	30172660	GG	TT	TT	INTERGENIC		
SNP_26332_A_30172739	NC_021163.1	Ca_Kabuli_Chr04	30172739	CC	AA	AA	INTERGENIC		
SNP_26333_A_30172742	NC_021163.1	Ca_Kabuli_Chr04	30172742	TT	AA	AA	INTERGENIC		
SNP_26334_A_30175997	NC_021163.1	Ca_Kabuli_Chr04	30175997	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26335_A_30176022	NC_021163.1	Ca_Kabuli_Chr04	30176022	AA	GG	GG	INTERGENIC			
SNP_26336_A_30176026	NC_021163.1	Ca_Kabuli_Chr04	30176026	AA	CC	CC	INTERGENIC			
SNP_26337_A_30176165	NC_021163.1	Ca_Kabuli_Chr04	30176165	AA	CC	CC	INTERGENIC			
SNP_26338_A_30176180	NC_021163.1	Ca_Kabuli_Chr04	30176180	AA	TT	TT	INTERGENIC			
SNP_26339_A_30176825	NC_021163.1	Ca_Kabuli_Chr04	30176825	AA	GG	GG	INTERGENIC			
SNP_26341_A_30178667	NC_021163.1	Ca_Kabuli_Chr04	30178667	CC	TT	TT	INTERGENIC			
SNP_26342_A_30178670	NC_021163.1	Ca_Kabuli_Chr04	30178670	GG	TT	TT	INTERGENIC			
SNP_26343_A_30184330	NC_021163.1	Ca_Kabuli_Chr04	30184330	TT	CC	CC	INTERGENIC			
SNP_26344_A_30184513	NC_021163.1	Ca_Kabuli_Chr04	30184513	TT	AA	AA	INTERGENIC			
SNP_26346_A_30184558	NC_021163.1	Ca_Kabuli_Chr04	30184558	AA	GG	GG	INTERGENIC			
SNP_26347_A_30184603	NC_021163.1	Ca_Kabuli_Chr04	30184603	CC	TT	TT	INTERGENIC			
SNP_26348_A_30184868	NC_021163.1	Ca_Kabuli_Chr04	30184868	TT	GG	GG	INTERGENIC			
SNP_26349_A_30184876	NC_021163.1	Ca_Kabuli_Chr04	30184876	CC	GG	GG	INTERGENIC			
SNP_26351_A_30187765	NC_021163.1	Ca_Kabuli_Chr04	30187765	GG	AA	AA	INTERGENIC			
SNP_26352_A_30188122	NC_021163.1	Ca_Kabuli_Chr04	30188122	GG	TT	TT	INTERGENIC			
SNP_26353_A_30188128	NC_021163.1	Ca_Kabuli_Chr04	30188128	GG	AA	AA	INTERGENIC			
SNP_26354_A_30188141	NC_021163.1	Ca_Kabuli_Chr04	30188141	AA	GG	GG	INTERGENIC			
SNP_26355_A_30188346	NC_021163.1	Ca_Kabuli_Chr04	30188346	TT	CC	CC	INTERGENIC			
SNP_26356_A_30194750	NC_021163.1	Ca_Kabuli_Chr04	30194750	AA	CC	CC	INTERGENIC			
SNP_26357_A_30200964	NC_021163.1	Ca_Kabuli_Chr04	30200964	TT	AA	AA	INTERGENIC			
SNP_26358_A_30200978	NC_021163.1	Ca_Kabuli_Chr04	30200978	CC	TT	TT	INTERGENIC			
SNP_26359_A_30201192	NC_021163.1	Ca_Kabuli_Chr04	30201192	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26360_A_30203884	NC_021163.1	Ca_Kabuli_Chr04	30203884	AA	GG	GG	INTERGENIC		
SNP_26361_A_30203886	NC_021163.1	Ca_Kabuli_Chr04	30203886	TT	CC	CC	INTERGENIC		
SNP_26362_A_30204981	NC_021163.1	Ca_Kabuli_Chr04	30204981	CC	TT	TT	INTERGENIC		
SNP_26363_A_30204984	NC_021163.1	Ca_Kabuli_Chr04	30204984	GG	AA	AA	INTERGENIC		
SNP_26364_A_30205586	NC_021163.1	Ca_Kabuli_Chr04	30205586	TT	AA	AA	INTERGENIC		
SNP_26365_A_30207377	NC_021163.1	Ca_Kabuli_Chr04	30207377	GG	TT	TT	DRR	101489086	VQ motif-containing protein 25-like
SNP_26366_A_30207459	NC_021163.1	Ca_Kabuli_Chr04	30207459	AA	GG	GG	DRR	101489086	VQ motif-containing protein 25-like
SNP_26367_A_30209017	NC_021163.1	Ca_Kabuli_Chr04	30209017	TT	CC	CC	URR	101489086	VQ motif-containing protein 25-like
SNP_26370_A_30211746	NC_021163.1	Ca_Kabuli_Chr04	30211746	GG	AA	AA	INTERGENIC		
SNP_26371_A_30211785	NC_021163.1	Ca_Kabuli_Chr04	30211785	AA	GG	GG	INTERGENIC		
SNP_26372_A_30211898	NC_021163.1	Ca_Kabuli_Chr04	30211898	AA	TT	TT	INTERGENIC		
SNP_26373_A_30212245	NC_021163.1	Ca_Kabuli_Chr04	30212245	AA	TT	TT	INTERGENIC		
SNP_26374_A_30214012	NC_021163.1	Ca_Kabuli_Chr04	30214012	TT	CC	CC	INTERGENIC		
SNP_26375_A_30216190	NC_021163.1	Ca_Kabuli_Chr04	30216190	CC	TT	TT	INTERGENIC		
SNP_26377_A_30227064	NC_021163.1	Ca_Kabuli_Chr04	30227064	CC	TT	TT	INTERGENIC		
SNP_26378_A_30227750	NC_021163.1	Ca_Kabuli_Chr04	30227750	AA	GG	GG	INTERGENIC		
SNP_26379_A_30251096	NC_021163.1	Ca_Kabuli_Chr04	30251096	TT	CC	CC	INTERGENIC		
SNP_26380_A_30267289	NC_021163.1	Ca_Kabuli_Chr04	30267289	GG	TT	TT	INTERGENIC		
SNP_26381_A_30267852	NC_021163.1	Ca_Kabuli_Chr04	30267852	AA	GG	GG	INTERGENIC		
SNP_26382_A_30276680	NC_021163.1	Ca_Kabuli_Chr04	30276680	CC	TT	TT	INTERGENIC		
SNP_26383_A_30279102	NC_021163.1	Ca_Kabuli_Chr04	30279102	CC	TT	TT	INTERGENIC		
SNP_26384_A_30279441	NC_021163.1	Ca_Kabuli_Chr04	30279441	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26385_A_30279892	NC_021163.1	Ca_Kabuli_Chr04	30279892	AA	GG	GG	INTERGENIC		
SNP_26386_A_30286155	NC_021163.1	Ca_Kabuli_Chr04	30286155	AA	TT	TT	INTERGENIC		
SNP_26387_A_30286561	NC_021163.1	Ca_Kabuli_Chr04	30286561	TT	GG	GG	INTERGENIC		
SNP_26388_A_30286777	NC_021163.1	Ca_Kabuli_Chr04	30286777	CC	AA	AA	INTERGENIC		
SNP_26389_A_30287850	NC_021163.1	Ca_Kabuli_Chr04	30287850	AA	GG	GG	INTERGENIC		
SNP_26390_A_30288238	NC_021163.1	Ca_Kabuli_Chr04	30288238	GG	AA	AA	INTERGENIC		
SNP_26391_A_30293515	NC_021163.1	Ca_Kabuli_Chr04	30293515	GG	AA	AA	INTERGENIC		
SNP_26392_A_30317952	NC_021163.1	Ca_Kabuli_Chr04	30317952	CC	AA	AA	URR	101490716	protein PHOTOPERIOD-INDEPENDENT EARLY FLOWERING 1
SNP_26393_A_30317953	NC_021163.1	Ca_Kabuli_Chr04	30317953	TT	AA	AA	URR	101490716	protein PHOTOPERIOD-INDEPENDENT EARLY FLOWERING 1
SNP_26394_A_30318294	NC_021163.1	Ca_Kabuli_Chr04	30318294	AA	TT	TT	URR	101490716	protein PHOTOPERIOD-INDEPENDENT EARLY FLOWERING 1
SNP_26395_A_30322866	NC_021163.1	Ca_Kabuli_Chr04	30322866	GG	AA	AA	INTERGENIC		
SNP_26396_A_30325067	NC_021163.1	Ca_Kabuli_Chr04	30325067	AA	GG	GG	INTERGENIC		
SNP_26398_A_30330603	NC_021163.1	Ca_Kabuli_Chr04	30330603	AA	CC	CC	INTERGENIC		
SNP_26399_A_30330604	NC_021163.1	Ca_Kabuli_Chr04	30330604	TT	AA	AA	INTERGENIC		
SNP_26400_A_30336644	NC_021163.1	Ca_Kabuli_Chr04	30336644	TT	CC	CC	URR	101509942	uncharacterized LOC101509942
SNP_26402_A_30352177	NC_021163.1	Ca_Kabuli_Chr04	30352177	AA	GG	GG	INTERGENIC		
SNP_26403_A_30355179	NC_021163.1	Ca_Kabuli_Chr04	30355179	GG	AA	AA	DRR	101510266	Unknown function
SNP_26405_A_30368207	NC_021163.1	Ca_Kabuli_Chr04	30368207	TT	CC	CC	INTRON	101510266	Unknown function
SNP_26406_A_30369181	NC_021163.1	Ca_Kabuli_Chr04	30369181	GG	AA	AA	INTRON	101510266	Unknown function
SNP_26407_A_30373287	NC_021163.1	Ca_Kabuli_Chr04	30373287	GG	AA	AA	INTERGENIC		
SNP_26408_A_30377583	NC_021163.1	Ca_Kabuli_Chr04	30377583	CC	TT	TT	INTERGENIC		
SNP_26409_A_30377597	NC_021163.1	Ca_Kabuli_Chr04	30377597	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26410_A_30379297	NC_021163.1	Ca_Kabuli_Chr04	30379297	AA	GG	GG	INTERGENIC			
SNP_26411_A_30390642	NC_021163.1	Ca_Kabuli_Chr04	30390642	CC	TT	TT	INTERGENIC			
SNP_26413_A_30390717	NC_021163.1	Ca_Kabuli_Chr04	30390717	GG	TT	TT	INTERGENIC			
SNP_26414_A_30398634	NC_021163.1	Ca_Kabuli_Chr04	30398634	AA	GG	GG	INTERGENIC			
SNP_26415_A_30398650	NC_021163.1	Ca_Kabuli_Chr04	30398650	AA	CC	CC	INTERGENIC			
SNP_26416_A_30398803	NC_021163.1	Ca_Kabuli_Chr04	30398803	AA	GG	GG	INTERGENIC			
SNP_26417_A_30398817	NC_021163.1	Ca_Kabuli_Chr04	30398817	TT	CC	CC	INTERGENIC			
SNP_26419_A_30405123	NC_021163.1	Ca_Kabuli_Chr04	30405123	CC	TT	TT	INTERGENIC			
SNP_26420_A_30406118	NC_021163.1	Ca_Kabuli_Chr04	30406118	AA	CC	CC	INTERGENIC			
SNP_26421_A_30406125	NC_021163.1	Ca_Kabuli_Chr04	30406125	GG	CC	CC	INTERGENIC			
SNP_26422_A_30413516	NC_021163.1	Ca_Kabuli_Chr04	30413516	GG	AA	AA	INTERGENIC			
SNP_26423_A_30413798	NC_021163.1	Ca_Kabuli_Chr04	30413798	GG	AA	AA	INTERGENIC			
SNP_26425_A_30421577	NC_021163.1	Ca_Kabuli_Chr04	30421577	TT	AA	AA	INTERGENIC			
SNP_26426_A_30422885	NC_021163.1	Ca_Kabuli_Chr04	30422885	AA	GG	GG	INTERGENIC			
SNP_26427_A_30423062	NC_021163.1	Ca_Kabuli_Chr04	30423062	GG	AA	AA	INTERGENIC			
SNP_26429_A_30423166	NC_021163.1	Ca_Kabuli_Chr04	30423166	AA	CC	CC	INTERGENIC			
SNP_26430_A_30423751	NC_021163.1	Ca_Kabuli_Chr04	30423751	TT	CC	CC	INTERGENIC			
SNP_26431_A_30423757	NC_021163.1	Ca_Kabuli_Chr04	30423757	TT	CC	CC	INTERGENIC			
SNP_26432_A_30423776	NC_021163.1	Ca_Kabuli_Chr04	30423776	GG	AA	AA	INTERGENIC			
SNP_26433_A_30423781	NC_021163.1	Ca_Kabuli_Chr04	30423781	AA	GG	GG	INTERGENIC			
SNP_26434_A_30424032	NC_021163.1	Ca_Kabuli_Chr04	30424032	GG	AA	AA	INTERGENIC			
SNP_26435_A_30425827	NC_021163.1	Ca_Kabuli_Chr04	30425827	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26436_A_30426393	NC_021163.1	Ca_Kabuli_Chr04	30426393	AA	GG	GG	INTERGENIC		
SNP_26438_A_30429386	NC_021163.1	Ca_Kabuli_Chr04	30429386	AA	GG	GG	INTERGENIC		
SNP_26439_A_30429391	NC_021163.1	Ca_Kabuli_Chr04	30429391	AA	GG	GG	INTERGENIC		
SNP_26440_A_30429554	NC_021163.1	Ca_Kabuli_Chr04	30429554	GG	AA	AA	INTERGENIC		
SNP_26441_A_30429575	NC_021163.1	Ca_Kabuli_Chr04	30429575	TT	CC	CC	INTERGENIC		
SNP_26442_A_30429972	NC_021163.1	Ca_Kabuli_Chr04	30429972	CC	TT	TT	INTERGENIC		
SNP_26443_A_30451217	NC_021163.1	Ca_Kabuli_Chr04	30451217	AA	TT	TT	INTERGENIC		
SNP_26444_A_30451219	NC_021163.1	Ca_Kabuli_Chr04	30451219	CC	AA	AA	INTERGENIC		
SNP_26445_A_30464381	NC_021163.1	Ca_Kabuli_Chr04	30464381	CC	GG	GG	INTERGENIC		
SNP_26446_A_30464600	NC_021163.1	Ca_Kabuli_Chr04	30464600	AA	GG	GG	INTERGENIC		
SNP_26447_A_30465357	NC_021163.1	Ca_Kabuli_Chr04	30465357	CC	TT	TT	DRR	101492316	uncharacterized LOC101492316
SNP_26448_A_30465495	NC_021163.1	Ca_Kabuli_Chr04	30465495	CC	TT	TT	DRR	101492316	uncharacterized LOC101492316
SNP_26449_A_30465504	NC_021163.1	Ca_Kabuli_Chr04	30465504	AA	GG	GG	DRR	101492316	uncharacterized LOC101492316
SNP_26450_A_30467982	NC_021163.1	Ca_Kabuli_Chr04	30467982	TT	CC	CC	INTRON	101492316	uncharacterized LOC101492316
SNP_26451_A_30468199	NC_021163.1	Ca_Kabuli_Chr04	30468199	GG	AA	AA	NON_SYNONYMOUS_CODING	101492316	uncharacterized LOC101492316
SNP_26454_A_30470099	NC_021163.1	Ca_Kabuli_Chr04	30470099	GG	TT	TT	URR	101492316	uncharacterized LOC101492316
SNP_26455_A_30470105	NC_021163.1	Ca_Kabuli_Chr04	30470105	TT	GG	GG	URR	101492316	uncharacterized LOC101492316
SNP_26456_A_30470325	NC_021163.1	Ca_Kabuli_Chr04	30470325	CC	TT	TT	URR	101492316	uncharacterized LOC101492316
SNP_26457_A_30470357	NC_021163.1	Ca_Kabuli_Chr04	30470357	AA	GG	GG	URR	101492316	uncharacterized LOC101492316
SNP_26458_A_30470746	NC_021163.1	Ca_Kabuli_Chr04	30470746	TT	CC	CC	URR	101492316	uncharacterized LOC101492316
SNP_26459_A_30477504	NC_021163.1	Ca_Kabuli_Chr04	30477504	GG	AA	AA	INTERGENIC		
SNP_26460_A_30477538	NC_021163.1	Ca_Kabuli_Chr04	30477538	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26462_A_30480276	NC_021163.1	Ca_Kabuli_Chr04	30480276	GG	AA	AA	DRR	101492646	squamosa promoter-binding-like protein 9
SNP_26463_A_30480963	NC_021163.1	Ca_Kabuli_Chr04	30480963	TT	GG	GG	DRR	101492646	squamosa promoter-binding-like protein 9
SNP_26464_A_30487123	NC_021163.1	Ca_Kabuli_Chr04	30487123	GG	AA	AA	URR	101492646	squamosa promoter-binding-like protein 9
SNP_26465_A_30495760	NC_021163.1	Ca_Kabuli_Chr04	30495760	CC	TT	TT	INTERGENIC		
SNP_26466_A_30498838	NC_021163.1	Ca_Kabuli_Chr04	30498838	TT	AA	AA	INTERGENIC		
SNP_26467_A_30498849	NC_021163.1	Ca_Kabuli_Chr04	30498849	AA	GG	GG	INTERGENIC		
SNP_26468_A_30498898	NC_021163.1	Ca_Kabuli_Chr04	30498898	TT	CC	CC	INTERGENIC		
SNP_26470_A_30506004	NC_021163.1	Ca_Kabuli_Chr04	30506004	GG	AA	AA	INTERGENIC		
SNP_26471_A_30508140	NC_021163.1	Ca_Kabuli_Chr04	30508140	AA	CC	CC	INTERGENIC		
SNP_26472_A_30510406	NC_021163.1	Ca_Kabuli_Chr04	30510406	GG	TT	TT	INTERGENIC		
SNP_26473_A_30510411	NC_021163.1	Ca_Kabuli_Chr04	30510411	CC	TT	TT	INTERGENIC		
SNP_26474_A_30510420	NC_021163.1	Ca_Kabuli_Chr04	30510420	GG	AA	AA	INTERGENIC		
SNP_26475_A_30520011	NC_021163.1	Ca_Kabuli_Chr04	30520011	TT	CC	CC	INTERGENIC		
SNP_26476_A_30521115	NC_021163.1	Ca_Kabuli_Chr04	30521115	TT	CC	CC	INTERGENIC		
SNP_26477_A_30521185	NC_021163.1	Ca_Kabuli_Chr04	30521185	AA	GG	GG	INTERGENIC		
SNP_26479_A_30521275	NC_021163.1	Ca_Kabuli_Chr04	30521275	AA	TT	TT	INTERGENIC		
SNP_26480_A_30521409	NC_021163.1	Ca_Kabuli_Chr04	30521409	TT	CC	CC	INTERGENIC		
SNP_26481_A_30521893	NC_021163.1	Ca_Kabuli_Chr04	30521893	TT	CC	CC	INTERGENIC		
SNP_26483_A_30527618	NC_021163.1	Ca_Kabuli_Chr04	30527618	GG	CC	CC	INTERGENIC		
SNP_26484_A_30528295	NC_021163.1	Ca_Kabuli_Chr04	30528295	GG	AA	AA	INTERGENIC		
SNP_26485_A_30529574	NC_021163.1	Ca_Kabuli_Chr04	30529574	CC	AA	AA	INTERGENIC		
SNP_26486_A_30534343	NC_021163.1	Ca_Kabuli_Chr04	30534343	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26487_A_30535768	NC_021163.1	Ca_Kabuli_Chr04	30535768	AA	GG	GG	DRR	101512204	uncharacterized LOC101512204
SNP_26488_A_30535820	NC_021163.1	Ca_Kabuli_Chr04	30535820	AA	GG	GG	DRR	101512204	uncharacterized LOC101512204
SNP_26490_A_30536004	NC_021163.1	Ca_Kabuli_Chr04	30536004	CC	TT	TT	SYNONYMOUS_CODING	101512204	uncharacterized LOC101512204
SNP_26491_A_30536366	NC_021163.1	Ca_Kabuli_Chr04	30536366	AA	GG	GG	NON_SYNONYMOUS_CODING	101512204	uncharacterized LOC101512204
SNP_26493_A_30537134	NC_021163.1	Ca_Kabuli_Chr04	30537134	TT	GG	GG	INTRON	101512204	uncharacterized LOC101512204
SNP_26494_A_30537349	NC_021163.1	Ca_Kabuli_Chr04	30537349	CC	TT	TT	INTRON	101512204	uncharacterized LOC101512204
SNP_26496_A_30537740	NC_021163.1	Ca_Kabuli_Chr04	30537740	CC	TT	TT	INTRON	101512204	uncharacterized LOC101512204
SNP_26497_A_30537764	NC_021163.1	Ca_Kabuli_Chr04	30537764	CC	AA	AA	INTRON	101512204	uncharacterized LOC101512204
SNP_26499_A_30538533	NC_021163.1	Ca_Kabuli_Chr04	30538533	CC	TT	TT	URR	101512204	uncharacterized LOC101512204
SNP_26500_A_30538580	NC_021163.1	Ca_Kabuli_Chr04	30538580	AA	GG	GG	URR	101512204	uncharacterized LOC101512204
SNP_26501_A_30538964	NC_021163.1	Ca_Kabuli_Chr04	30538964	CC	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26502_A_30539049	NC_021163.1	Ca_Kabuli_Chr04	30539049	AA	GG	GG	URR	101512204	uncharacterized LOC101512204
SNP_26503_A_30539053	NC_021163.1	Ca_Kabuli_Chr04	30539053	GG	CC	CC	URR	101512204	uncharacterized LOC101512204
SNP_26504_A_30539062	NC_021163.1	Ca_Kabuli_Chr04	30539062	TT	GG	GG	URR	101512204	uncharacterized LOC101512204
SNP_26505_A_30539154	NC_021163.1	Ca_Kabuli_Chr04	30539154	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26506_A_30539162	NC_021163.1	Ca_Kabuli_Chr04	30539162	CC	TT	TT	URR	101512204	uncharacterized LOC101512204
SNP_26507_A_30539175	NC_021163.1	Ca_Kabuli_Chr04	30539175	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26508_A_30539198	NC_021163.1	Ca_Kabuli_Chr04	30539198	TT	CC	CC	URR	101512204	uncharacterized LOC101512204
SNP_26509_A_30539301	NC_021163.1	Ca_Kabuli_Chr04	30539301	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26510_A_30539306	NC_021163.1	Ca_Kabuli_Chr04	30539306	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26511_A_30539313	NC_021163.1	Ca_Kabuli_Chr04	30539313	TT	GG	GG	URR	101512204	uncharacterized LOC101512204
SNP_26512_A_30539353	NC_021163.1	Ca_Kabuli_Chr04	30539353	GG	AA	AA	URR	101512204	uncharacterized LOC101512204

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26513_A_30539369	NC_021163.1	Ca_Kabuli_Chr04	30539369	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26514_A_30539412	NC_021163.1	Ca_Kabuli_Chr04	30539412	GG	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26515_A_30539416	NC_021163.1	Ca_Kabuli_Chr04	30539416	GG	CC	CC	URR	101512204	uncharacterized LOC101512204
SNP_26516_A_30539430	NC_021163.1	Ca_Kabuli_Chr04	30539430	TT	CC	CC	URR	101512204	uncharacterized LOC101512204
SNP_26517_A_30539545	NC_021163.1	Ca_Kabuli_Chr04	30539545	CC	AA	AA	URR	101512204	uncharacterized LOC101512204
SNP_26518_A_30539584	NC_021163.1	Ca_Kabuli_Chr04	30539584	TT	GG	GG	URR	101512204	uncharacterized LOC101512204
SNP_26519_A_30539707	NC_021163.1	Ca_Kabuli_Chr04	30539707	AA	CC	CC	URR	101512204	uncharacterized LOC101512204
SNP_26520_A_30540704	NC_021163.1	Ca_Kabuli_Chr04	30540704	TT	AA	AA	INTERGENIC		
SNP_26521_A_30540932	NC_021163.1	Ca_Kabuli_Chr04	30540932	GG	AA	AA	INTERGENIC		
SNP_26522_A_30540954	NC_021163.1	Ca_Kabuli_Chr04	30540954	CC	TT	TT	INTERGENIC		
SNP_26523_A_30541034	NC_021163.1	Ca_Kabuli_Chr04	30541034	CC	TT	TT	INTERGENIC		
SNP_26524_A_30541158	NC_021163.1	Ca_Kabuli_Chr04	30541158	TT	AA	AA	INTERGENIC		
SNP_26525_A_30541352	NC_021163.1	Ca_Kabuli_Chr04	30541352	AA	GG	GG	INTERGENIC		
SNP_26526_A_30541371	NC_021163.1	Ca_Kabuli_Chr04	30541371	GG	AA	AA	INTERGENIC		
SNP_26527_A_30541374	NC_021163.1	Ca_Kabuli_Chr04	30541374	CC	TT	TT	INTERGENIC		
SNP_26528_A_30541418	NC_021163.1	Ca_Kabuli_Chr04	30541418	TT	AA	AA	INTERGENIC		
SNP_26529_A_30541444	NC_021163.1	Ca_Kabuli_Chr04	30541444	GG	AA	AA	INTERGENIC		
SNP_26530_A_30541497	NC_021163.1	Ca_Kabuli_Chr04	30541497	TT	CC	CC	INTERGENIC		
SNP_26531_A_30541598	NC_021163.1	Ca_Kabuli_Chr04	30541598	CC	TT	TT	INTERGENIC		
SNP_26532_A_30541607	NC_021163.1	Ca_Kabuli_Chr04	30541607	AA	GG	GG	INTERGENIC		
SNP_26533_A_30541634	NC_021163.1	Ca_Kabuli_Chr04	30541634	AA	GG	GG	INTERGENIC		
SNP_26534_A_30541645	NC_021163.1	Ca_Kabuli_Chr04	30541645	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26535_A_30541656	NC_021163.1	Ca_Kabuli_Chr04	30541656	TT	CC	CC	INTERGENIC			
SNP_26536_A_30541657	NC_021163.1	Ca_Kabuli_Chr04	30541657	TT	CC	CC	INTERGENIC			
SNP_26537_A_30541736	NC_021163.1	Ca_Kabuli_Chr04	30541736	GG	AA	AA	INTERGENIC			
SNP_26538_A_30541791	NC_021163.1	Ca_Kabuli_Chr04	30541791	TT	CC	CC	INTERGENIC			
SNP_26539_A_30541795	NC_021163.1	Ca_Kabuli_Chr04	30541795	CC	TT	TT	INTERGENIC			
SNP_26540_A_30541812	NC_021163.1	Ca_Kabuli_Chr04	30541812	AA	GG	GG	INTERGENIC			
SNP_26541_A_30541818	NC_021163.1	Ca_Kabuli_Chr04	30541818	AA	GG	GG	INTERGENIC			
SNP_26542_A_30541866	NC_021163.1	Ca_Kabuli_Chr04	30541866	AA	GG	GG	INTERGENIC			
SNP_26543_A_30541868	NC_021163.1	Ca_Kabuli_Chr04	30541868	AA	GG	GG	INTERGENIC			
SNP_26544_A_30541918	NC_021163.1	Ca_Kabuli_Chr04	30541918	CC	AA	AA	INTERGENIC			
SNP_26545_A_30541936	NC_021163.1	Ca_Kabuli_Chr04	30541936	AA	GG	GG	INTERGENIC			
SNP_26546_A_30541961	NC_021163.1	Ca_Kabuli_Chr04	30541961	GG	AA	AA	INTERGENIC			
SNP_26547_A_30541998	NC_021163.1	Ca_Kabuli_Chr04	30541998	AA	CC	CC	INTERGENIC			
SNP_26548_A_30542003	NC_021163.1	Ca_Kabuli_Chr04	30542003	TT	CC	CC	INTERGENIC			
SNP_26549_A_30542004	NC_021163.1	Ca_Kabuli_Chr04	30542004	TT	AA	AA	INTERGENIC			
SNP_26550_A_30542063	NC_021163.1	Ca_Kabuli_Chr04	30542063	AA	TT	TT	INTERGENIC			
SNP_26551_A_30542074	NC_021163.1	Ca_Kabuli_Chr04	30542074	TT	CC	CC	INTERGENIC			
SNP_26552_A_30542076	NC_021163.1	Ca_Kabuli_Chr04	30542076	CC	AA	AA	INTERGENIC			
SNP_26553_A_30542090	NC_021163.1	Ca_Kabuli_Chr04	30542090	AA	GG	GG	INTERGENIC			
SNP_26554_A_30542109	NC_021163.1	Ca_Kabuli_Chr04	30542109	AA	CC	CC	INTERGENIC			
SNP_26555_A_30542124	NC_021163.1	Ca_Kabuli_Chr04	30542124	TT	AA	AA	INTERGENIC			
SNP_26557_A_30542184	NC_021163.1	Ca_Kabuli_Chr04	30542184	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26558_A_30542288	NC_021163.1	Ca_Kabuli_Chr04	30542288	CC	AA	AA	INTERGENIC			
SNP_26559_A_30542428	NC_021163.1	Ca_Kabuli_Chr04	30542428	AA	GG	GG	INTERGENIC			
SNP_26560_A_30542541	NC_021163.1	Ca_Kabuli_Chr04	30542541	TT	GG	GG	INTERGENIC			
SNP_26561_A_30542598	NC_021163.1	Ca_Kabuli_Chr04	30542598	GG	AA	AA	INTERGENIC			
SNP_26562_A_30542611	NC_021163.1	Ca_Kabuli_Chr04	30542611	GG	CC	CC	INTERGENIC			
SNP_26563_A_30542638	NC_021163.1	Ca_Kabuli_Chr04	30542638	TT	CC	CC	INTERGENIC			
SNP_26564_A_30542640	NC_021163.1	Ca_Kabuli_Chr04	30542640	TT	GG	GG	INTERGENIC			
SNP_26565_A_30542659	NC_021163.1	Ca_Kabuli_Chr04	30542659	CC	TT	TT	INTERGENIC			
SNP_26566_A_30542702	NC_021163.1	Ca_Kabuli_Chr04	30542702	GG	TT	TT	INTERGENIC			
SNP_26567_A_30542765	NC_021163.1	Ca_Kabuli_Chr04	30542765	GG	AA	AA	INTERGENIC			
SNP_26568_A_30542778	NC_021163.1	Ca_Kabuli_Chr04	30542778	GG	AA	AA	INTERGENIC			
SNP_26569_A_30542815	NC_021163.1	Ca_Kabuli_Chr04	30542815	AA	CC	CC	INTERGENIC			
SNP_26570_A_30542905	NC_021163.1	Ca_Kabuli_Chr04	30542905	CC	GG	GG	INTERGENIC			
SNP_26571_A_30543039	NC_021163.1	Ca_Kabuli_Chr04	30543039	AA	GG	GG	INTERGENIC			
SNP_26572_A_30543048	NC_021163.1	Ca_Kabuli_Chr04	30543048	AA	GG	GG	INTERGENIC			
SNP_26573_A_30543053	NC_021163.1	Ca_Kabuli_Chr04	30543053	GG	TT	TT	INTERGENIC			
SNP_26574_A_30543156	NC_021163.1	Ca_Kabuli_Chr04	30543156	GG	AA	AA	INTERGENIC			
SNP_26575_A_30543159	NC_021163.1	Ca_Kabuli_Chr04	30543159	AA	GG	GG	INTERGENIC			
SNP_26576_A_30543170	NC_021163.1	Ca_Kabuli_Chr04	30543170	GG	AA	AA	INTERGENIC			
SNP_26577_A_30543173	NC_021163.1	Ca_Kabuli_Chr04	30543173	AA	GG	GG	INTERGENIC			
SNP_26578_A_30543208	NC_021163.1	Ca_Kabuli_Chr04	30543208	AA	CC	CC	INTERGENIC			
SNP_26579_A_30543229	NC_021163.1	Ca_Kabuli_Chr04	30543229	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26580_A_30543761	NC_021163.1	Ca_Kabuli_Chr04	30543761	GG	CC	CC	INTERGENIC			
SNP_26581_A_30544027	NC_021163.1	Ca_Kabuli_Chr04	30544027	GG	CC	CC	INTERGENIC			
SNP_26582_A_30544047	NC_021163.1	Ca_Kabuli_Chr04	30544047	GG	AA	AA	INTERGENIC			
SNP_26583_A_30544180	NC_021163.1	Ca_Kabuli_Chr04	30544180	CC	TT	TT	INTERGENIC			
SNP_26584_A_30544188	NC_021163.1	Ca_Kabuli_Chr04	30544188	CC	TT	TT	INTERGENIC			
SNP_26585_A_30544231	NC_021163.1	Ca_Kabuli_Chr04	30544231	AA	GG	GG	INTERGENIC			
SNP_26586_A_30544249	NC_021163.1	Ca_Kabuli_Chr04	30544249	GG	TT	TT	INTERGENIC			
SNP_26587_A_30544282	NC_021163.1	Ca_Kabuli_Chr04	30544282	CC	TT	TT	INTERGENIC			
SNP_26588_A_30544300	NC_021163.1	Ca_Kabuli_Chr04	30544300	AA	CC	CC	INTERGENIC			
SNP_26589_A_30544481	NC_021163.1	Ca_Kabuli_Chr04	30544481	CC	TT	TT	INTERGENIC			
SNP_26590_A_30544486	NC_021163.1	Ca_Kabuli_Chr04	30544486	CC	TT	TT	INTERGENIC			
SNP_26591_A_30544545	NC_021163.1	Ca_Kabuli_Chr04	30544545	GG	AA	AA	INTERGENIC			
SNP_26592_A_30544574	NC_021163.1	Ca_Kabuli_Chr04	30544574	AA	CC	CC	INTERGENIC			
SNP_26593_A_30545518	NC_021163.1	Ca_Kabuli_Chr04	30545518	CC	TT	TT	INTERGENIC			
SNP_26594_A_30546358	NC_021163.1	Ca_Kabuli_Chr04	30546358	CC	TT	TT	INTERGENIC			
SNP_26595_A_30546379	NC_021163.1	Ca_Kabuli_Chr04	30546379	TT	CC	CC	INTERGENIC			
SNP_26596_A_30546452	NC_021163.1	Ca_Kabuli_Chr04	30546452	CC	TT	TT	INTERGENIC			
SNP_26597_A_30546464	NC_021163.1	Ca_Kabuli_Chr04	30546464	TT	GG	GG	INTERGENIC			
SNP_26598_A_30546666	NC_021163.1	Ca_Kabuli_Chr04	30546666	TT	GG	GG	INTERGENIC			
SNP_26599_A_30546684	NC_021163.1	Ca_Kabuli_Chr04	30546684	AA	GG	GG	INTERGENIC			
SNP_26600_A_30546688	NC_021163.1	Ca_Kabuli_Chr04	30546688	TT	AA	AA	INTERGENIC			
SNP_26601_A_30546695	NC_021163.1	Ca_Kabuli_Chr04	30546695	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26602_A_30546701	NC_021163.1	Ca_Kabuli_Chr04	30546701	CC	TT	TT	INTERGENIC			
SNP_26603_A_30546702	NC_021163.1	Ca_Kabuli_Chr04	30546702	CC	TT	TT	INTERGENIC			
SNP_26604_A_30546716	NC_021163.1	Ca_Kabuli_Chr04	30546716	TT	CC	CC	INTERGENIC			
SNP_26605_A_30546780	NC_021163.1	Ca_Kabuli_Chr04	30546780	AA	CC	CC	INTERGENIC			
SNP_26606_A_30546795	NC_021163.1	Ca_Kabuli_Chr04	30546795	CC	TT	TT	INTERGENIC			
SNP_26607_A_30546872	NC_021163.1	Ca_Kabuli_Chr04	30546872	TT	GG	GG	INTERGENIC			
SNP_26608_A_30548178	NC_021163.1	Ca_Kabuli_Chr04	30548178	TT	CC	CC	INTERGENIC			
SNP_26609_A_30548374	NC_021163.1	Ca_Kabuli_Chr04	30548374	CC	AA	AA	INTERGENIC			
SNP_26610_A_30548606	NC_021163.1	Ca_Kabuli_Chr04	30548606	AA	GG	GG	INTERGENIC			
SNP_26612_A_30549082	NC_021163.1	Ca_Kabuli_Chr04	30549082	CC	TT	TT	INTERGENIC			
SNP_26613_A_30549098	NC_021163.1	Ca_Kabuli_Chr04	30549098	AA	GG	GG	INTERGENIC			
SNP_26614_A_30549246	NC_021163.1	Ca_Kabuli_Chr04	30549246	CC	TT	TT	INTERGENIC			
SNP_26615_A_30549549	NC_021163.1	Ca_Kabuli_Chr04	30549549	TT	CC	CC	INTERGENIC			
SNP_26616_A_30550557	NC_021163.1	Ca_Kabuli_Chr04	30550557	AA	CC	CC	INTERGENIC			
SNP_26617_A_30551420	NC_021163.1	Ca_Kabuli_Chr04	30551420	TT	CC	CC	INTERGENIC			
SNP_26618_A_30551717	NC_021163.1	Ca_Kabuli_Chr04	30551717	TT	CC	CC	INTERGENIC			
SNP_26620_A_30554089	NC_021163.1	Ca_Kabuli_Chr04	30554089	TT	CC	CC	INTERGENIC			
SNP_26621_A_30554894	NC_021163.1	Ca_Kabuli_Chr04	30554894	AA	CC	CC	INTERGENIC			
SNP_26622_A_30554901	NC_021163.1	Ca_Kabuli_Chr04	30554901	GG	AA	AA	INTERGENIC			
SNP_26623_A_30556597	NC_021163.1	Ca_Kabuli_Chr04	30556597	AA	TT	TT	INTERGENIC			
SNP_26624_A_30556723	NC_021163.1	Ca_Kabuli_Chr04	30556723	GG	CC	CC	INTERGENIC			
SNP_26625_A_30556725	NC_021163.1	Ca_Kabuli_Chr04	30556725	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26626_A_30557093	NC_021163.1	Ca_Kabuli_Chr04	30557093	TT	CC	CC	INTERGENIC			
SNP_26627_A_30557390	NC_021163.1	Ca_Kabuli_Chr04	30557390	AA	GG	GG	INTERGENIC			
SNP_26629_A_30559323	NC_021163.1	Ca_Kabuli_Chr04	30559323	TT	AA	AA	INTERGENIC			
SNP_26630_A_30559401	NC_021163.1	Ca_Kabuli_Chr04	30559401	AA	GG	GG	INTERGENIC			
SNP_26631_A_30559428	NC_021163.1	Ca_Kabuli_Chr04	30559428	GG	AA	AA	INTERGENIC			
SNP_26633_A_30565022	NC_021163.1	Ca_Kabuli_Chr04	30565022	CC	AA	AA	INTERGENIC			
SNP_26634_A_30565679	NC_021163.1	Ca_Kabuli_Chr04	30565679	AA	GG	GG	INTERGENIC			
SNP_26635_A_30565855	NC_021163.1	Ca_Kabuli_Chr04	30565855	AA	CC	CC	INTERGENIC			
SNP_26641_A_30583906	NC_021163.1	Ca_Kabuli_Chr04	30583906	CC	GG	GG	INTERGENIC			
SNP_26642_A_30584465	NC_021163.1	Ca_Kabuli_Chr04	30584465	GG	AA	AA	INTERGENIC			
SNP_26643_A_30584660	NC_021163.1	Ca_Kabuli_Chr04	30584660	CC	AA	AA	INTERGENIC			
SNP_26644_A_30585443	NC_021163.1	Ca_Kabuli_Chr04	30585443	AA	GG	GG	INTERGENIC			
SNP_26646_A_30586268	NC_021163.1	Ca_Kabuli_Chr04	30586268	TT	CC	CC	INTERGENIC			
SNP_26647_A_30589164	NC_021163.1	Ca_Kabuli_Chr04	30589164	AA	GG	GG	INTERGENIC			
SNP_26648_A_30591350	NC_021163.1	Ca_Kabuli_Chr04	30591350	GG	AA	AA	INTERGENIC			
SNP_26649_A_30591581	NC_021163.1	Ca_Kabuli_Chr04	30591581	AA	GG	GG	INTERGENIC			
SNP_26650_A_30592540	NC_021163.1	Ca_Kabuli_Chr04	30592540	AA	CC	CC	INTERGENIC			
SNP_26651_A_30606102	NC_021163.1	Ca_Kabuli_Chr04	30606102	CC	TT	TT	URR	101498500	CDK5RAP3-like protein	
SNP_26652_A_30607701	NC_021163.1	Ca_Kabuli_Chr04	30607701	CC	TT	TT	INTERGENIC			
SNP_26653_A_30607740	NC_021163.1	Ca_Kabuli_Chr04	30607740	GG	AA	AA	INTERGENIC			
SNP_26654_A_30616250	NC_021163.1	Ca_Kabuli_Chr04	30616250	CC	TT	TT	INTERGENIC			
SNP_26655_A_30617528	NC_021163.1	Ca_Kabuli_Chr04	30617528	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26656_A_30617540	NC_021163.1	Ca_Kabuli_Chr04	30617540	CC	TT	TT	INTERGENIC		
SNP_26657_A_30618472	NC_021163.1	Ca_Kabuli_Chr04	30618472	AA	GG	GG	INTERGENIC		
SNP_26659_A_30619688	NC_021163.1	Ca_Kabuli_Chr04	30619688	AA	TT	TT	INTERGENIC		
SNP_26661_A_30621920	NC_021163.1	Ca_Kabuli_Chr04	30621920	TT	CC	CC	INTERGENIC		
SNP_26662_A_30629546	NC_021163.1	Ca_Kabuli_Chr04	30629546	CC	TT	TT	INTERGENIC		
SNP_26663_A_30633040	NC_021163.1	Ca_Kabuli_Chr04	30633040	CC	TT	TT	INTERGENIC		
SNP_26664_A_30634076	NC_021163.1	Ca_Kabuli_Chr04	30634076	GG	TT	TT	INTERGENIC		
SNP_26665_A_30635770	NC_021163.1	Ca_Kabuli_Chr04	30635770	TT	CC	CC	INTERGENIC		
SNP_26666_A_30641877	NC_021163.1	Ca_Kabuli_Chr04	30641877	AA	GG	GG	INTERGENIC		
SNP_26667_A_30650447	NC_021163.1	Ca_Kabuli_Chr04	30650447	CC	TT	TT	INTERGENIC		
SNP_26668_A_30653466	NC_021163.1	Ca_Kabuli_Chr04	30653466	GG	AA	AA	INTERGENIC		
SNP_26669_A_30653480	NC_021163.1	Ca_Kabuli_Chr04	30653480	CC	TT	TT	INTERGENIC		
SNP_26671_A_30673458	NC_021163.1	Ca_Kabuli_Chr04	30673458	AA	TT	TT	INTRON	101498846	TBCC domain-containing protein 1
SNP_26673_A_30688901	NC_021163.1	Ca_Kabuli_Chr04	30688901	GG	AA	AA	INTERGENIC		
SNP_26674_A_30690709	NC_021163.1	Ca_Kabuli_Chr04	30690709	GG	AA	AA	INTERGENIC		
SNP_26675_A_30693784	NC_021163.1	Ca_Kabuli_Chr04	30693784	AA	CC	CC	INTERGENIC		
SNP_26677_A_30705142	NC_021163.1	Ca_Kabuli_Chr04	30705142	CC	TT	TT	INTERGENIC		
SNP_26678_A_30705853	NC_021163.1	Ca_Kabuli_Chr04	30705853	CC	AA	AA	INTERGENIC		
SNP_26680_A_30716351	NC_021163.1	Ca_Kabuli_Chr04	30716351	CC	AA	AA	URR	101513164	uncharacterized LOC101513164
SNP_26681_A_30716774	NC_021163.1	Ca_Kabuli_Chr04	30716774	AA	GG	GG	URR	101513164	uncharacterized LOC101513164
SNP_26682_A_30717378	NC_021163.1	Ca_Kabuli_Chr04	30717378	TT	GG	GG	INTERGENIC		
SNP_26683_A_30717561	NC_021163.1	Ca_Kabuli_Chr04	30717561	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26684_A_30717651	NC_021163.1	Ca_Kabuli_Chr04	30717651	CC	TT	TT	INTERGENIC		
SNP_26685_A_30718057	NC_021163.1	Ca_Kabuli_Chr04	30718057	GG	TT	TT	INTERGENIC		
SNP_26686_A_30718353	NC_021163.1	Ca_Kabuli_Chr04	30718353	AA	GG	GG	INTERGENIC		
SNP_26687_A_30718491	NC_021163.1	Ca_Kabuli_Chr04	30718491	AA	TT	TT	INTERGENIC		
SNP_26688_A_30718897	NC_021163.1	Ca_Kabuli_Chr04	30718897	GG	CC	CC	INTERGENIC		
SNP_26689_A_30718914	NC_021163.1	Ca_Kabuli_Chr04	30718914	AA	TT	TT	INTERGENIC		
SNP_26690_A_30719029	NC_021163.1	Ca_Kabuli_Chr04	30719029	CC	TT	TT	INTERGENIC		
SNP_26691_A_30719079	NC_021163.1	Ca_Kabuli_Chr04	30719079	AA	TT	TT	INTERGENIC		
SNP_26692_A_30719647	NC_021163.1	Ca_Kabuli_Chr04	30719647	TT	GG	GG	INTERGENIC		
SNP_26693_A_30719648	NC_021163.1	Ca_Kabuli_Chr04	30719648	TT	AA	AA	INTERGENIC		
SNP_26694_A_30719760	NC_021163.1	Ca_Kabuli_Chr04	30719760	TT	GG	GG	INTERGENIC		
SNP_26695_A_30720012	NC_021163.1	Ca_Kabuli_Chr04	30720012	TT	GG	GG	INTERGENIC		
SNP_26696_A_30720276	NC_021163.1	Ca_Kabuli_Chr04	30720276	CC	TT	TT	INTERGENIC		
SNP_26697_A_30720316	NC_021163.1	Ca_Kabuli_Chr04	30720316	AA	TT	TT	INTERGENIC		
SNP_26698_A_30727067	NC_021163.1	Ca_Kabuli_Chr04	30727067	TT	CC	CC	INTERGENIC		
SNP_26699_A_30739210	NC_021163.1	Ca_Kabuli_Chr04	30739210	AA	TT	TT	INTERGENIC		
SNP_26700_A_30741541	NC_021163.1	Ca_Kabuli_Chr04	30741541	GG	TT	TT	INTERGENIC		
SNP_26701_A_30741904	NC_021163.1	Ca_Kabuli_Chr04	30741904	TT	CC	CC	INTERGENIC		
SNP_26703_A_30746076	NC_021163.1	Ca_Kabuli_Chr04	30746076	CC	TT	TT	INTERGENIC		
SNP_26704_A_30747206	NC_021163.1	Ca_Kabuli_Chr04	30747206	AA	GG	GG	INTERGENIC		
SNP_26705_A_30754779	NC_021163.1	Ca_Kabuli_Chr04	30754779	CC	TT	TT	DRR	101499168	protein QUIRKY
SNP_26708_A_30768458	NC_021163.1	Ca_Kabuli_Chr04	30768458	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26709_A_30769032	NC_021163.1	Ca_Kabuli_Chr04	30769032	TT	CC	CC	INTERGENIC			
SNP_26710_A_30779069	NC_021163.1	Ca_Kabuli_Chr04	30779069	TT	GG	GG	INTERGENIC			
SNP_26711_A_30783288	NC_021163.1	Ca_Kabuli_Chr04	30783288	CC	GG	GG	INTERGENIC			
SNP_26712_A_30784671	NC_021163.1	Ca_Kabuli_Chr04	30784671	TT	GG	GG	INTERGENIC			
SNP_26713_A_30786029	NC_021163.1	Ca_Kabuli_Chr04	30786029	GG	AA	AA	INTERGENIC			
SNP_26715_A_30795094	NC_021163.1	Ca_Kabuli_Chr04	30795094	TT	CC	CC	INTERGENIC			
SNP_26716_A_30795434	NC_021163.1	Ca_Kabuli_Chr04	30795434	GG	AA	AA	INTERGENIC			
SNP_26717_A_30799090	NC_021163.1	Ca_Kabuli_Chr04	30799090	TT	CC	CC	INTERGENIC			
SNP_26718_A_30805916	NC_021163.1	Ca_Kabuli_Chr04	30805916	TT	AA	AA	INTERGENIC			
SNP_26719_A_30819879	NC_021163.1	Ca_Kabuli_Chr04	30819879	GG	AA	AA	INTERGENIC			
SNP_26720_A_30820129	NC_021163.1	Ca_Kabuli_Chr04	30820129	CC	TT	TT	INTERGENIC			
SNP_26721_A_30820738	NC_021163.1	Ca_Kabuli_Chr04	30820738	TT	CC	CC	INTERGENIC			
SNP_26722_A_30821461	NC_021163.1	Ca_Kabuli_Chr04	30821461	AA	CC	CC	INTERGENIC			
SNP_26723_A_30822862	NC_021163.1	Ca_Kabuli_Chr04	30822862	GG	AA	AA	INTERGENIC			
SNP_26724_A_30827427	NC_021163.1	Ca_Kabuli_Chr04	30827427	GG	AA	AA	INTERGENIC			
SNP_26725_A_30828641	NC_021163.1	Ca_Kabuli_Chr04	30828641	CC	TT	TT	INTERGENIC			
SNP_26726_A_30828729	NC_021163.1	Ca_Kabuli_Chr04	30828729	GG	AA	AA	INTERGENIC			
SNP_26727_A_30828938	NC_021163.1	Ca_Kabuli_Chr04	30828938	TT	GG	GG	INTERGENIC			
SNP_26728_A_30829404	NC_021163.1	Ca_Kabuli_Chr04	30829404	AA	GG	GG	INTERGENIC			
SNP_26729_A_30829655	NC_021163.1	Ca_Kabuli_Chr04	30829655	TT	CC	CC	INTERGENIC			
SNP_26730_A_30829681	NC_021163.1	Ca_Kabuli_Chr04	30829681	AA	CC	CC	INTERGENIC			
SNP_26731_A_30829706	NC_021163.1	Ca_Kabuli_Chr04	30829706	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26732_A_30830786	NC_021163.1	Ca_Kabuli_Chr04	30830786	AA	CC	CC	INTERGENIC		
SNP_26733_A_30831972	NC_021163.1	Ca_Kabuli_Chr04	30831972	TT	CC	CC	INTERGENIC		
SNP_26734_A_30832393	NC_021163.1	Ca_Kabuli_Chr04	30832393	GG	AA	AA	INTERGENIC		
SNP_26735_A_30844323	NC_021163.1	Ca_Kabuli_Chr04	30844323	TT	CC	CC	INTERGENIC		
SNP_26737_A_30858519	NC_021163.1	Ca_Kabuli_Chr04	30858519	GG	AA	AA	INTRON	101500106	transcription factor HBP-1b(c38)
SNP_26738_A_30861558	NC_021163.1	Ca_Kabuli_Chr04	30861558	TT	AA	AA	INTERGENIC		
SNP_26739_A_30861571	NC_021163.1	Ca_Kabuli_Chr04	30861571	GG	TT	TT	INTERGENIC		
SNP_26740_A_30861584	NC_021163.1	Ca_Kabuli_Chr04	30861584	GG	AA	AA	INTERGENIC		
SNP_26741_A_30861613	NC_021163.1	Ca_Kabuli_Chr04	30861613	GG	AA	AA	INTERGENIC		
SNP_26742_A_30861885	NC_021163.1	Ca_Kabuli_Chr04	30861885	CC	AA	AA	INTERGENIC		
SNP_26743_A_30863687	NC_021163.1	Ca_Kabuli_Chr04	30863687	GG	AA	AA	INTERGENIC		
SNP_26745_A_30868832	NC_021163.1	Ca_Kabuli_Chr04	30868832	GG	TT	TT	INTERGENIC		
SNP_26746_A_30868857	NC_021163.1	Ca_Kabuli_Chr04	30868857	AA	CC	CC	INTERGENIC		
SNP_26747_A_30869883	NC_021163.1	Ca_Kabuli_Chr04	30869883	AA	GG	GG	INTERGENIC		
SNP_26748_A_30869887	NC_021163.1	Ca_Kabuli_Chr04	30869887	TT	AA	AA	INTERGENIC		
SNP_26749_A_30869888	NC_021163.1	Ca_Kabuli_Chr04	30869888	CC	TT	TT	INTERGENIC		
SNP_26750_A_30870323	NC_021163.1	Ca_Kabuli_Chr04	30870323	CC	AA	AA	INTERGENIC		
SNP_26751_A_30870375	NC_021163.1	Ca_Kabuli_Chr04	30870375	AA	CC	CC	INTERGENIC		
SNP_26752_A_30870835	NC_021163.1	Ca_Kabuli_Chr04	30870835	TT	CC	CC	INTERGENIC		
SNP_26753_A_30870851	NC_021163.1	Ca_Kabuli_Chr04	30870851	CC	AA	AA	INTERGENIC		
SNP_26754_A_30873278	NC_021163.1	Ca_Kabuli_Chr04	30873278	TT	GG	GG	INTERGENIC		
SNP_26755_A_30873299	NC_021163.1	Ca_Kabuli_Chr04	30873299	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26756_A_30873300	NC_021163.1	Ca_Kabuli_Chr04	30873300	AA	GG	GG	INTERGENIC			
SNP_26757_A_30873336	NC_021163.1	Ca_Kabuli_Chr04	30873336	GG	TT	TT	INTERGENIC			
SNP_26758_A_30873502	NC_021163.1	Ca_Kabuli_Chr04	30873502	CC	TT	TT	INTERGENIC			
SNP_26759_A_30873509	NC_021163.1	Ca_Kabuli_Chr04	30873509	GG	AA	AA	INTERGENIC			
SNP_26760_A_30873532	NC_021163.1	Ca_Kabuli_Chr04	30873532	AA	TT	TT	INTERGENIC			
SNP_26761_A_30873544	NC_021163.1	Ca_Kabuli_Chr04	30873544	TT	CC	CC	INTERGENIC			
SNP_26762_A_30873603	NC_021163.1	Ca_Kabuli_Chr04	30873603	CC	TT	TT	INTERGENIC			
SNP_26763_A_30873619	NC_021163.1	Ca_Kabuli_Chr04	30873619	TT	CC	CC	INTERGENIC			
SNP_26765_A_30874307	NC_021163.1	Ca_Kabuli_Chr04	30874307	TT	CC	CC	INTERGENIC			
SNP_26766_A_30874310	NC_021163.1	Ca_Kabuli_Chr04	30874310	CC	GG	GG	INTERGENIC			
SNP_26767_A_30874314	NC_021163.1	Ca_Kabuli_Chr04	30874314	CC	GG	GG	INTERGENIC			
SNP_26771_A_30883532	NC_021163.1	Ca_Kabuli_Chr04	30883532	CC	TT	TT	INTERGENIC			
SNP_26772_A_30883548	NC_021163.1	Ca_Kabuli_Chr04	30883548	AA	GG	GG	INTERGENIC			
SNP_26773_A_30886921	NC_021163.1	Ca_Kabuli_Chr04	30886921	GG	AA	AA	INTERGENIC			
SNP_26774_A_30886936	NC_021163.1	Ca_Kabuli_Chr04	30886936	TT	CC	CC	INTERGENIC			
SNP_26775_A_30886940	NC_021163.1	Ca_Kabuli_Chr04	30886940	TT	CC	CC	INTERGENIC			
SNP_26776_A_30886960	NC_021163.1	Ca_Kabuli_Chr04	30886960	AA	GG	GG	INTERGENIC			
SNP_26777_A_30886971	NC_021163.1	Ca_Kabuli_Chr04	30886971	GG	TT	TT	INTERGENIC			
SNP_26778_A_30886997	NC_021163.1	Ca_Kabuli_Chr04	30886997	TT	AA	AA	INTERGENIC			
SNP_26780_A_30887217	NC_021163.1	Ca_Kabuli_Chr04	30887217	AA	GG	GG	INTERGENIC			
SNP_26781_A_30887277	NC_021163.1	Ca_Kabuli_Chr04	30887277	GG	AA	AA	INTERGENIC			
SNP_26782_A_30887281	NC_021163.1	Ca_Kabuli_Chr04	30887281	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26783_A_30887289	NC_021163.1	Ca_Kabuli_Chr04	30887289	CC	AA	AA	INTERGENIC			
SNP_26785_A_30887500	NC_021163.1	Ca_Kabuli_Chr04	30887500	TT	GG	GG	INTERGENIC			
SNP_26787_A_30887506	NC_021163.1	Ca_Kabuli_Chr04	30887506	AA	GG	GG	INTERGENIC			
SNP_26788_A_30887617	NC_021163.1	Ca_Kabuli_Chr04	30887617	GG	TT	TT	INTERGENIC			
SNP_26789_A_30887879	NC_021163.1	Ca_Kabuli_Chr04	30887879	CC	TT	TT	INTERGENIC			
SNP_26790_A_30888141	NC_021163.1	Ca_Kabuli_Chr04	30888141	CC	TT	TT	INTERGENIC			
SNP_26791_A_30888238	NC_021163.1	Ca_Kabuli_Chr04	30888238	TT	CC	CC	INTERGENIC			
SNP_26792_A_30888249	NC_021163.1	Ca_Kabuli_Chr04	30888249	TT	GG	GG	INTERGENIC			
SNP_26793_A_30888257	NC_021163.1	Ca_Kabuli_Chr04	30888257	CC	TT	TT	INTERGENIC			
SNP_26794_A_30888477	NC_021163.1	Ca_Kabuli_Chr04	30888477	CC	GG	GG	INTERGENIC			
SNP_26795_A_30888535	NC_021163.1	Ca_Kabuli_Chr04	30888535	TT	CC	CC	INTERGENIC			
SNP_26796_A_30888626	NC_021163.1	Ca_Kabuli_Chr04	30888626	CC	AA	AA	INTERGENIC			
SNP_26797_A_30889010	NC_021163.1	Ca_Kabuli_Chr04	30889010	TT	CC	CC	INTERGENIC			
SNP_26798_A_30897372	NC_021163.1	Ca_Kabuli_Chr04	30897372	TT	CC	CC	INTERGENIC			
SNP_26799_A_30897398	NC_021163.1	Ca_Kabuli_Chr04	30897398	TT	CC	CC	INTERGENIC			
SNP_26800_A_30897428	NC_021163.1	Ca_Kabuli_Chr04	30897428	TT	CC	CC	INTERGENIC			
SNP_26801_A_30897467	NC_021163.1	Ca_Kabuli_Chr04	30897467	GG	AA	AA	INTERGENIC			
SNP_26803_A_30897594	NC_021163.1	Ca_Kabuli_Chr04	30897594	GG	AA	AA	INTERGENIC			
SNP_26804_A_30897873	NC_021163.1	Ca_Kabuli_Chr04	30897873	TT	GG	GG	INTERGENIC			
SNP_26805_A_30897903	NC_021163.1	Ca_Kabuli_Chr04	30897903	TT	CC	CC	INTERGENIC			
SNP_26806_A_30924415	NC_021163.1	Ca_Kabuli_Chr04	30924415	AA	GG	GG	INTERGENIC			
SNP_26807_A_30924650	NC_021163.1	Ca_Kabuli_Chr04	30924650	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26808_A_30928446	NC_021163.1	Ca_Kabuli_Chr04	30928446	TT	CC	CC	URR	101514464	Unknown function
SNP_26809_A_30928611	NC_021163.1	Ca_Kabuli_Chr04	30928611	CC	TT	TT	URR	101514464	Unknown function
SNP_26810_A_30928633	NC_021163.1	Ca_Kabuli_Chr04	30928633	GG	AA	AA	URR	101514464	Unknown function
SNP_26811_A_30928669	NC_021163.1	Ca_Kabuli_Chr04	30928669	AA	GG	GG	URR	101514464	Unknown function
SNP_26812_A_30928671	NC_021163.1	Ca_Kabuli_Chr04	30928671	GG	TT	TT	URR	101514464	Unknown function
SNP_26813_A_30928674	NC_021163.1	Ca_Kabuli_Chr04	30928674	CC	GG	GG	URR	101514464	Unknown function
SNP_26815_A_30940519	NC_021163.1	Ca_Kabuli_Chr04	30940519	GG	TT	TT	INTERGENIC		
SNP_26816_A_30940531	NC_021163.1	Ca_Kabuli_Chr04	30940531	GG	AA	AA	INTERGENIC		
SNP_26817_A_30940707	NC_021163.1	Ca_Kabuli_Chr04	30940707	TT	CC	CC	INTERGENIC		
SNP_26818_A_30941445	NC_021163.1	Ca_Kabuli_Chr04	30941445	TT	CC	CC	INTERGENIC		
SNP_26819_A_30941779	NC_021163.1	Ca_Kabuli_Chr04	30941779	TT	CC	CC	INTERGENIC		
SNP_26820_A_30942712	NC_021163.1	Ca_Kabuli_Chr04	30942712	TT	CC	CC	INTERGENIC		
SNP_26821_A_30944399	NC_021163.1	Ca_Kabuli_Chr04	30944399	TT	CC	CC	INTERGENIC		
SNP_26822_A_30950781	NC_021163.1	Ca_Kabuli_Chr04	30950781	GG	AA	AA	URR	101500750	protein QUIRKY-like
SNP_26823_A_30952222	NC_021163.1	Ca_Kabuli_Chr04	30952222	TT	AA	AA	INTERGENIC		
SNP_26824_A_30952237	NC_021163.1	Ca_Kabuli_Chr04	30952237	TT	CC	CC	INTERGENIC		
SNP_26825_A_30953866	NC_021163.1	Ca_Kabuli_Chr04	30953866	CC	TT	TT	INTERGENIC		
SNP_26826_A_30953921	NC_021163.1	Ca_Kabuli_Chr04	30953921	TT	AA	AA	INTERGENIC		
SNP_26827_A_30954113	NC_021163.1	Ca_Kabuli_Chr04	30954113	TT	CC	CC	INTERGENIC		
SNP_26828_A_30955981	NC_021163.1	Ca_Kabuli_Chr04	30955981	GG	AA	AA	INTERGENIC		
SNP_26829_A_30958512	NC_021163.1	Ca_Kabuli_Chr04	30958512	GG	AA	AA	INTERGENIC		
SNP_26830_A_30958534	NC_021163.1	Ca_Kabuli_Chr04	30958534	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26831_A_30958679	NC_021163.1	Ca_Kabuli_Chr04	30958679	AA	GG	GG	INTERGENIC			
SNP_26832_A_30958702	NC_021163.1	Ca_Kabuli_Chr04	30958702	GG	TT	TT	INTERGENIC			
SNP_26833_A_30958703	NC_021163.1	Ca_Kabuli_Chr04	30958703	TT	GG	GG	INTERGENIC			
SNP_26834_A_30958858	NC_021163.1	Ca_Kabuli_Chr04	30958858	CC	TT	TT	INTERGENIC			
SNP_26835_A_30959106	NC_021163.1	Ca_Kabuli_Chr04	30959106	GG	AA	AA	INTERGENIC			
SNP_26836_A_30961715	NC_021163.1	Ca_Kabuli_Chr04	30961715	TT	AA	AA	INTERGENIC			
SNP_26837_A_30961744	NC_021163.1	Ca_Kabuli_Chr04	30961744	AA	CC	CC	INTERGENIC			
SNP_26838_A_30961750	NC_021163.1	Ca_Kabuli_Chr04	30961750	AA	GG	GG	INTERGENIC			
SNP_26839_A_30965040	NC_021163.1	Ca_Kabuli_Chr04	30965040	CC	TT	TT	INTERGENIC			
SNP_26841_A_30968235	NC_021163.1	Ca_Kabuli_Chr04	30968235	CC	TT	TT	INTERGENIC			
SNP_26842_A_30979799	NC_021163.1	Ca_Kabuli_Chr04	30979799	GG	CC	CC	INTERGENIC			
SNP_26843_A_30979803	NC_021163.1	Ca_Kabuli_Chr04	30979803	TT	AA	AA	INTERGENIC			
SNP_26844_A_30979804	NC_021163.1	Ca_Kabuli_Chr04	30979804	TT	AA	AA	INTERGENIC			
SNP_26845_A_30980013	NC_021163.1	Ca_Kabuli_Chr04	30980013	CC	AA	AA	INTERGENIC			
SNP_26846_A_30980299	NC_021163.1	Ca_Kabuli_Chr04	30980299	CC	GG	GG	INTERGENIC			
SNP_26847_A_30980344	NC_021163.1	Ca_Kabuli_Chr04	30980344	CC	TT	TT	INTERGENIC			
SNP_26848_A_30980357	NC_021163.1	Ca_Kabuli_Chr04	30980357	CC	TT	TT	INTERGENIC			
SNP_26849_A_30980363	NC_021163.1	Ca_Kabuli_Chr04	30980363	CC	TT	TT	INTERGENIC			
SNP_26850_A_30981869	NC_021163.1	Ca_Kabuli_Chr04	30981869	CC	AA	AA	INTERGENIC			
SNP_26851_A_30983100	NC_021163.1	Ca_Kabuli_Chr04	30983100	AA	GG	GG	INTERGENIC			
SNP_26852_A_30984151	NC_021163.1	Ca_Kabuli_Chr04	30984151	TT	CC	CC	INTERGENIC			
SNP_26853_A_30998072	NC_021163.1	Ca_Kabuli_Chr04	30998072	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26854_A_30998109	NC_021163.1	Ca_Kabuli_Chr04	30998109	AA	GG	GG	INTERGENIC		
SNP_26855_A_30998369	NC_021163.1	Ca_Kabuli_Chr04	30998369	TT	AA	AA	INTERGENIC		
SNP_26856_A_30999991	NC_021163.1	Ca_Kabuli_Chr04	30999991	TT	AA	AA	INTERGENIC		
SNP_26857_A_31000049	NC_021163.1	Ca_Kabuli_Chr04	31000049	AA	GG	GG	INTERGENIC		
SNP_26858_A_31001187	NC_021163.1	Ca_Kabuli_Chr04	31001187	AA	TT	TT	INTERGENIC		
SNP_26859_A_31001558	NC_021163.1	Ca_Kabuli_Chr04	31001558	CC	AA	AA	INTERGENIC		
SNP_26860_A_31001952	NC_021163.1	Ca_Kabuli_Chr04	31001952	TT	CC	CC	INTERGENIC		
SNP_26861_A_31016155	NC_021163.1	Ca_Kabuli_Chr04	31016155	TT	GG	GG	INTERGENIC		
SNP_26862_A_31016182	NC_021163.1	Ca_Kabuli_Chr04	31016182	TT	AA	AA	INTERGENIC		
SNP_26863_A_31016547	NC_021163.1	Ca_Kabuli_Chr04	31016547	GG	AA	AA	INTERGENIC		
SNP_26864_A_31022581	NC_021163.1	Ca_Kabuli_Chr04	31022581	GG	AA	AA	INTERGENIC		
SNP_26865_A_31022602	NC_021163.1	Ca_Kabuli_Chr04	31022602	GG	AA	AA	INTERGENIC		
SNP_26866_A_31023021	NC_021163.1	Ca_Kabuli_Chr04	31023021	CC	AA	AA	INTERGENIC		
SNP_26867_A_31023322	NC_021163.1	Ca_Kabuli_Chr04	31023322	TT	CC	CC	INTERGENIC		
SNP_26868_A_31023341	NC_021163.1	Ca_Kabuli_Chr04	31023341	AA	GG	GG	INTERGENIC		
SNP_26869_A_31023638	NC_021163.1	Ca_Kabuli_Chr04	31023638	TT	AA	AA	INTERGENIC		
SNP_26870_A_31024397	NC_021163.1	Ca_Kabuli_Chr04	31024397	CC	AA	AA	INTERGENIC		
SNP_26871_A_31024409	NC_021163.1	Ca_Kabuli_Chr04	31024409	TT	CC	CC	INTERGENIC		
SNP_26872_A_31024411	NC_021163.1	Ca_Kabuli_Chr04	31024411	CC	TT	TT	INTERGENIC		
SNP_26873_A_31027051	NC_021163.1	Ca_Kabuli_Chr04	31027051	CC	GG	GG	INTRON	101515765	uncharacterized LOC101515765
SNP_26874_A_31027166	NC_021163.1	Ca_Kabuli_Chr04	31027166	GG	AA	AA	INTRON	101515765	uncharacterized LOC101515765
SNP_26875_A_31029010	NC_021163.1	Ca_Kabuli_Chr04	31029010	CC	AA	AA	URR	101515765	uncharacterized LOC101515765

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_26876_A_31051280	NC_021163.1	Ca_Kabuli_Chr04	31051280	GG	TT	TT	INTERGENIC			
SNP_26877_A_31051358	NC_021163.1	Ca_Kabuli_Chr04	31051358	GG	AA	AA	INTERGENIC			
SNP_26878_A_31051361	NC_021163.1	Ca_Kabuli_Chr04	31051361	TT	CC	CC	INTERGENIC			
SNP_26879_A_31051424	NC_021163.1	Ca_Kabuli_Chr04	31051424	CC	TT	TT	INTERGENIC			
SNP_26880_A_31051426	NC_021163.1	Ca_Kabuli_Chr04	31051426	AA	GG	GG	INTERGENIC			
SNP_26881_A_31051447	NC_021163.1	Ca_Kabuli_Chr04	31051447	GG	AA	AA	INTERGENIC			
SNP_26882_A_31051453	NC_021163.1	Ca_Kabuli_Chr04	31051453	TT	CC	CC	INTERGENIC			
SNP_26883_A_31051481	NC_021163.1	Ca_Kabuli_Chr04	31051481	GG	AA	AA	INTERGENIC			
SNP_26884_A_31052905	NC_021163.1	Ca_Kabuli_Chr04	31052905	GG	TT	TT	INTERGENIC			
SNP_26885_A_31053281	NC_021163.1	Ca_Kabuli_Chr04	31053281	GG	TT	TT	INTERGENIC			
SNP_26886_A_31054527	NC_021163.1	Ca_Kabuli_Chr04	31054527	GG	AA	AA	INTERGENIC			
SNP_26887_A_31054564	NC_021163.1	Ca_Kabuli_Chr04	31054564	GG	TT	TT	INTERGENIC			
SNP_26888_A_31054596	NC_021163.1	Ca_Kabuli_Chr04	31054596	CC	TT	TT	INTERGENIC			
SNP_26889_A_31054598	NC_021163.1	Ca_Kabuli_Chr04	31054598	GG	TT	TT	INTERGENIC			
SNP_26890_A_31054858	NC_021163.1	Ca_Kabuli_Chr04	31054858	AA	GG	GG	INTERGENIC			
SNP_26891_A_31054896	NC_021163.1	Ca_Kabuli_Chr04	31054896	GG	AA	AA	INTERGENIC			
SNP_26892_A_31054900	NC_021163.1	Ca_Kabuli_Chr04	31054900	TT	CC	CC	INTERGENIC			
SNP_26893_A_31054902	NC_021163.1	Ca_Kabuli_Chr04	31054902	TT	CC	CC	INTERGENIC			
SNP_26894_A_31055949	NC_021163.1	Ca_Kabuli_Chr04	31055949	TT	CC	CC	INTERGENIC			
SNP_26895_A_31056363	NC_021163.1	Ca_Kabuli_Chr04	31056363	GG	TT	TT	INTERGENIC			
SNP_26896_A_31056375	NC_021163.1	Ca_Kabuli_Chr04	31056375	TT	GG	GG	INTERGENIC			
SNP_26897_A_31056782	NC_021163.1	Ca_Kabuli_Chr04	31056782	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26899_A_31057891	NC_021163.1	Ca_Kabuli_Chr04	31057891	AA	GG	GG	INTERGENIC		
SNP_26901_A_31063439	NC_021163.1	Ca_Kabuli_Chr04	31063439	AA	GG	GG	INTERGENIC		
SNP_26902_A_31063989	NC_021163.1	Ca_Kabuli_Chr04	31063989	CC	TT	TT	INTERGENIC		
SNP_26903_A_31064178	NC_021163.1	Ca_Kabuli_Chr04	31064178	AA	GG	GG	DRR	101501375	cytochrome P450 93A3-like
SNP_26904_A_31064199	NC_021163.1	Ca_Kabuli_Chr04	31064199	TT	CC	CC	DRR	101501375	cytochrome P450 93A3-like
SNP_26905_A_31064532	NC_021163.1	Ca_Kabuli_Chr04	31064532	AA	TT	TT	DRR	101501375	cytochrome P450 93A3-like
SNP_26906_A_31066094	NC_021163.1	Ca_Kabuli_Chr04	31066094	TT	GG	GG	NON_SYNONYMOUS_CODING	101501375	cytochrome P450 93A3-like
SNP_26907_A_31066124	NC_021163.1	Ca_Kabuli_Chr04	31066124	AA	GG	GG	NON_SYNONYMOUS_CODING	101501375	cytochrome P450 93A3-like
SNP_26908_A_31070692	NC_021163.1	Ca_Kabuli_Chr04	31070692	AA	GG	GG	INTERGENIC		
SNP_26909_A_31070934	NC_021163.1	Ca_Kabuli_Chr04	31070934	CC	GG	GG	INTERGENIC		
SNP_26910_A_31071299	NC_021163.1	Ca_Kabuli_Chr04	31071299	GG	AA	AA	INTERGENIC		
SNP_26911_A_31071302	NC_021163.1	Ca_Kabuli_Chr04	31071302	TT	CC	CC	INTERGENIC		
SNP_26912_A_31071802	NC_021163.1	Ca_Kabuli_Chr04	31071802	GG	CC	CC	INTERGENIC		
SNP_26913_A_31079529	NC_021163.1	Ca_Kabuli_Chr04	31079529	AA	GG	GG	INTERGENIC		
SNP_26914_A_31079573	NC_021163.1	Ca_Kabuli_Chr04	31079573	TT	CC	CC	INTERGENIC		
SNP_26915_A_31079641	NC_021163.1	Ca_Kabuli_Chr04	31079641	CC	TT	TT	INTERGENIC		
SNP_26917_A_31079702	NC_021163.1	Ca_Kabuli_Chr04	31079702	GG	TT	TT	INTERGENIC		
SNP_26918_A_31079881	NC_021163.1	Ca_Kabuli_Chr04	31079881	TT	GG	GG	INTERGENIC		
SNP_26920_A_31107076	NC_021163.1	Ca_Kabuli_Chr04	31107076	AA	GG	GG	URR	101501691	ras-related protein RABA4d
SNP_26921_A_31107139	NC_021163.1	Ca_Kabuli_Chr04	31107139	GG	TT	TT	URR	101501691	ras-related protein RABA4d
SNP_26922_A_31107199	NC_021163.1	Ca_Kabuli_Chr04	31107199	GG	CC	CC	URR	101501691	ras-related protein RABA4d
SNP_26923_A_31107271	NC_021163.1	Ca_Kabuli_Chr04	31107271	CC	AA	AA	URR	101501691	ras-related protein RABA4d

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26924_A_31107627	NC_021163.1	Ca_Kabuli_Chr04	31107627	CC	AA	AA	URR	101501691	ras-related protein RABA4d
SNP_26925_A_31108308	NC_021163.1	Ca_Kabuli_Chr04	31108308	GG	AA	AA	INTERGENIC		
SNP_26926_A_31108555	NC_021163.1	Ca_Kabuli_Chr04	31108555	GG	AA	AA	INTERGENIC		
SNP_26927_A_31108570	NC_021163.1	Ca_Kabuli_Chr04	31108570	CC	TT	TT	INTERGENIC		
SNP_26929_A_31108832	NC_021163.1	Ca_Kabuli_Chr04	31108832	CC	TT	TT	INTERGENIC		
SNP_26930_A_31108844	NC_021163.1	Ca_Kabuli_Chr04	31108844	GG	AA	AA	INTERGENIC		
SNP_26931_A_31108981	NC_021163.1	Ca_Kabuli_Chr04	31108981	AA	GG	GG	INTERGENIC		
SNP_26932_A_31109912	NC_021163.1	Ca_Kabuli_Chr04	31109912	AA	GG	GG	INTERGENIC		
SNP_26933_A_31110370	NC_021163.1	Ca_Kabuli_Chr04	31110370	CC	TT	TT	INTERGENIC		
SNP_26934_A_31110876	NC_021163.1	Ca_Kabuli_Chr04	31110876	TT	AA	AA	INTERGENIC		
SNP_26935_A_31110901	NC_021163.1	Ca_Kabuli_Chr04	31110901	GG	TT	TT	INTERGENIC		
SNP_26937_A_31110959	NC_021163.1	Ca_Kabuli_Chr04	31110959	TT	CC	CC	INTERGENIC		
SNP_26938_A_31111415	NC_021163.1	Ca_Kabuli_Chr04	31111415	GG	TT	TT	INTERGENIC		
SNP_26939_A_31112224	NC_021163.1	Ca_Kabuli_Chr04	31112224	CC	AA	AA	INTERGENIC		
SNP_26940_A_31112519	NC_021163.1	Ca_Kabuli_Chr04	31112519	GG	AA	AA	INTERGENIC		
SNP_26941_A_31114661	NC_021163.1	Ca_Kabuli_Chr04	31114661	GG	AA	AA	INTERGENIC		
SNP_26942_A_31115049	NC_021163.1	Ca_Kabuli_Chr04	31115049	CC	TT	TT	INTERGENIC		
SNP_26943_A_31115068	NC_021163.1	Ca_Kabuli_Chr04	31115068	TT	CC	CC	INTERGENIC		
SNP_26944_A_31115586	NC_021163.1	Ca_Kabuli_Chr04	31115586	AA	TT	TT	INTERGENIC		
SNP_26945_A_31117254	NC_021163.1	Ca_Kabuli_Chr04	31117254	GG	AA	AA	INTERGENIC		
SNP_26946_A_31117283	NC_021163.1	Ca_Kabuli_Chr04	31117283	CC	TT	TT	INTERGENIC		
SNP_26947_A_31117291	NC_021163.1	Ca_Kabuli_Chr04	31117291	TT	AA	AA	INTERGENIC		

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SNP_26948_A_31118081	NC_021163.1	Ca_Kabuli_Chr04	31118081	GG	TT	TT	INTERGENIC			
SNP_26949_A_31120736	NC_021163.1	Ca_Kabuli_Chr04	31120736	CC	GG	GG	INTERGENIC			
SNP_26950_A_31121012	NC_021163.1	Ca_Kabuli_Chr04	31121012	GG	AA	AA	INTERGENIC			
SNP_26951_A_31121027	NC_021163.1	Ca_Kabuli_Chr04	31121027	AA	GG	GG	INTERGENIC			
SNP_26952_A_31121074	NC_021163.1	Ca_Kabuli_Chr04	31121074	TT	CC	CC	INTERGENIC			
SNP_26953_A_31121079	NC_021163.1	Ca_Kabuli_Chr04	31121079	CC	TT	TT	INTERGENIC			
SNP_26954_A_31121092	NC_021163.1	Ca_Kabuli_Chr04	31121092	CC	GG	GG	INTERGENIC			
SNP_26955_A_31121601	NC_021163.1	Ca_Kabuli_Chr04	31121601	CC	AA	AA	INTERGENIC			
SNP_26956_A_31121631	NC_021163.1	Ca_Kabuli_Chr04	31121631	CC	GG	GG	INTERGENIC			
SNP_26957_A_31122093	NC_021163.1	Ca_Kabuli_Chr04	31122093	TT	CC	CC	INTERGENIC			
SNP_26958_A_31122111	NC_021163.1	Ca_Kabuli_Chr04	31122111	TT	AA	AA	INTERGENIC			
SNP_26959_A_31122338	NC_021163.1	Ca_Kabuli_Chr04	31122338	CC	AA	AA	INTERGENIC			
SNP_26960_A_31122352	NC_021163.1	Ca_Kabuli_Chr04	31122352	CC	GG	GG	INTERGENIC			
SNP_26961_A_31122360	NC_021163.1	Ca_Kabuli_Chr04	31122360	TT	CC	CC	INTERGENIC			
SNP_26962_A_31122365	NC_021163.1	Ca_Kabuli_Chr04	31122365	TT	CC	CC	INTERGENIC			
SNP_26963_A_31124926	NC_021163.1	Ca_Kabuli_Chr04	31124926	GG	AA	AA	INTERGENIC			
SNP_26964_A_31126663	NC_021163.1	Ca_Kabuli_Chr04	31126663	AA	GG	GG	INTERGENIC			
SNP_26965_A_31127968	NC_021163.1	Ca_Kabuli_Chr04	31127968	AA	TT	TT	INTERGENIC			
SNP_26966_A_31128025	NC_021163.1	Ca_Kabuli_Chr04	31128025	GG	AA	AA	INTERGENIC			
SNP_26967_A_31136153	NC_021163.1	Ca_Kabuli_Chr04	31136153	AA	GG	GG	INTERGENIC			
SNP_26968_A_31136453	NC_021163.1	Ca_Kabuli_Chr04	31136453	GG	AA	AA	INTERGENIC			
SNP_26969_A_31136492	NC_021163.1	Ca_Kabuli_Chr04	31136492	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_26970_A_31136514	NC_021163.1	Ca_Kabuli_Chr04	31136514	TT	GG	GG	INTERGENIC		
SNP_26972_A_31138320	NC_021163.1	Ca_Kabuli_Chr04	31138320	AA	GG	GG	DRR	101502017	transcription factor bHLH130
SNP_26973_A_31138715	NC_021163.1	Ca_Kabuli_Chr04	31138715	CC	TT	TT	NON_SYNONYMOUS_CODING	101502017	transcription factor bHLH130
SNP_26975_A_31145115	NC_021163.1	Ca_Kabuli_Chr04	31145115	AA	GG	GG	INTERGENIC		
SNP_26976_A_31147612	NC_021163.1	Ca_Kabuli_Chr04	31147612	CC	TT	TT	INTERGENIC		
SNP_26978_A_31173305	NC_021163.1	Ca_Kabuli_Chr04	31173305	CC	TT	TT	INTERGENIC		
SNP_26979_A_31173711	NC_021163.1	Ca_Kabuli_Chr04	31173711	CC	TT	TT	INTERGENIC		
SNP_26980_A_31178878	NC_021163.1	Ca_Kabuli_Chr04	31178878	TT	CC	CC	INTERGENIC		
SNP_26981_A_31182635	NC_021163.1	Ca_Kabuli_Chr04	31182635	TT	AA	AA	INTERGENIC		
SNP_26983_A_31184630	NC_021163.1	Ca_Kabuli_Chr04	31184630	AA	GG	GG	INTERGENIC		
SNP_26984_A_31189289	NC_021163.1	Ca_Kabuli_Chr04	31189289	CC	TT	TT	INTERGENIC		
SNP_26985_A_31189621	NC_021163.1	Ca_Kabuli_Chr04	31189621	AA	CC	CC	INTERGENIC		
SNP_26986_A_31189832	NC_021163.1	Ca_Kabuli_Chr04	31189832	AA	GG	GG	INTERGENIC		
SNP_26987_A_31190120	NC_021163.1	Ca_Kabuli_Chr04	31190120	TT	CC	CC	INTERGENIC		
SNP_26988_A_31190782	NC_021163.1	Ca_Kabuli_Chr04	31190782	AA	GG	GG	INTERGENIC		
SNP_26990_A_31194330	NC_021163.1	Ca_Kabuli_Chr04	31194330	AA	GG	GG	INTERGENIC		
SNP_26992_A_31195142	NC_021163.1	Ca_Kabuli_Chr04	31195142	GG	AA	AA	DRR	101502346	probable inactive leucine-rich repeat receptor-like protein kinase At1g66830
SNP_26995_A_31206607	NC_021163.1	Ca_Kabuli_Chr04	31206607	TT	GG	GG	INTERGENIC		
SNP_26996_A_31217673	NC_021163.1	Ca_Kabuli_Chr04	31217673	GG	TT	TT	INTRON	101502655	OTU domain-containing protein At3g57810-like
SNP_26997_A_31217763	NC_021163.1	Ca_Kabuli_Chr04	31217763	AA	CC	CC	INTRON	101502655	OTU domain-containing protein At3g57810-like
SNP_26998_A_31217797	NC_021163.1	Ca_Kabuli_Chr04	31217797	TT	CC	CC	INTRON	101502655	OTU domain-containing protein At3g57810-like
SNP_26999_A_31221993	NC_021163.1	Ca_Kabuli_Chr04	31221993	GG	AA	AA	URR	101502655	OTU domain-containing protein At3g57810-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27000_A_31228804	NC_021163.1	Ca_Kabuli_Chr04	31228804	TT	CC	CC	URR	101502969	internal alternative NAD(P)H-ubiquinone oxidoreductase A2, mitochondrial-like
SNP_27004_A_31233818	NC_021163.1	Ca_Kabuli_Chr04	31233818	CC	TT	TT	INTERGENIC		
SNP_27005_A_31233820	NC_021163.1	Ca_Kabuli_Chr04	31233820	TT	CC	CC	INTERGENIC		
SNP_27006_A_31234456	NC_021163.1	Ca_Kabuli_Chr04	31234456	TT	CC	CC	INTERGENIC		
SNP_27007_A_31235318	NC_021163.1	Ca_Kabuli_Chr04	31235318	AA	GG	GG	INTERGENIC		
SNP_27010_A_31237500	NC_021163.1	Ca_Kabuli_Chr04	31237500	CC	TT	TT	INTERGENIC		
SNP_27011_A_31248907	NC_021163.1	Ca_Kabuli_Chr04	31248907	GG	AA	AA	INTERGENIC		
SNP_27012_A_31248909	NC_021163.1	Ca_Kabuli_Chr04	31248909	GG	AA	AA	INTERGENIC		
SNP_27013_A_31249893	NC_021163.1	Ca_Kabuli_Chr04	31249893	GG	AA	AA	INTERGENIC		
SNP_27014_A_31254223	NC_021163.1	Ca_Kabuli_Chr04	31254223	CC	GG	GG	DRR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27015_A_31254227	NC_021163.1	Ca_Kabuli_Chr04	31254227	CC	TT	TT	DRR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27016_A_31258557	NC_021163.1	Ca_Kabuli_Chr04	31258557	TT	CC	CC	URR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27017_A_31258640	NC_021163.1	Ca_Kabuli_Chr04	31258640	AA	GG	GG	URR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27019_A_31258925	NC_021163.1	Ca_Kabuli_Chr04	31258925	GG	CC	CC	URR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27020_A_31259002	NC_021163.1	Ca_Kabuli_Chr04	31259002	AA	CC	CC	URR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27022_A_31259214	NC_021163.1	Ca_Kabuli_Chr04	31259214	GG	TT	TT	URR	101503292	putative pentatricopeptide repeat-containing protein At3g13770, mitochondrial
SNP_27023_A_31268319	NC_021163.1	Ca_Kabuli_Chr04	31268319	AA	CC	CC	INTERGENIC		
SNP_27024_A_31271539	NC_021163.1	Ca_Kabuli_Chr04	31271539	TT	GG	GG	INTERGENIC		
SNP_27026_A_31275218	NC_021163.1	Ca_Kabuli_Chr04	31275218	GG	CC	CC	INTERGENIC		
SNP_27027_A_31275342	NC_021163.1	Ca_Kabuli_Chr04	31275342	TT	CC	CC	INTERGENIC		
SNP_27029_A_31276286	NC_021163.1	Ca_Kabuli_Chr04	31276286	AA	GG	GG	INTERGENIC		
SNP_27031_A_31281324	NC_021163.1	Ca_Kabuli_Chr04	31281324	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27032_A_31282238	NC_021163.1	Ca_Kabuli_Chr04	31282238	TT	CC	CC	INTERGENIC		
SNP_27033_A_31283222	NC_021163.1	Ca_Kabuli_Chr04	31283222	CC	GG	GG	INTERGENIC		
SNP_27034_A_31284173	NC_021163.1	Ca_Kabuli_Chr04	31284173	TT	CC	CC	INTERGENIC		
SNP_27035_A_31284208	NC_021163.1	Ca_Kabuli_Chr04	31284208	GG	TT	TT	INTERGENIC		
SNP_27037_A_31284508	NC_021163.1	Ca_Kabuli_Chr04	31284508	CC	TT	TT	INTERGENIC		
SNP_27038_A_31285313	NC_021163.1	Ca_Kabuli_Chr04	31285313	CC	TT	TT	INTERGENIC		
SNP_27039_A_31285331	NC_021163.1	Ca_Kabuli_Chr04	31285331	CC	GG	GG	INTERGENIC		
SNP_27040_A_31289075	NC_021163.1	Ca_Kabuli_Chr04	31289075	AA	CC	CC	INTERGENIC		
SNP_27041_A_31290653	NC_021163.1	Ca_Kabuli_Chr04	31290653	TT	CC	CC	INTERGENIC		
SNP_27042_A_31290712	NC_021163.1	Ca_Kabuli_Chr04	31290712	GG	CC	CC	INTERGENIC		
SNP_27043_A_31290747	NC_021163.1	Ca_Kabuli_Chr04	31290747	CC	GG	GG	INTERGENIC		
SNP_27044_A_31294414	NC_021163.1	Ca_Kabuli_Chr04	31294414	CC	TT	TT	INTERGENIC		
SNP_27045_A_31294460	NC_021163.1	Ca_Kabuli_Chr04	31294460	TT	GG	GG	INTERGENIC		
SNP_27046_A_31295707	NC_021163.1	Ca_Kabuli_Chr04	31295707	GG	AA	AA	INTERGENIC		
SNP_27047_A_31296537	NC_021163.1	Ca_Kabuli_Chr04	31296537	TT	CC	CC	INTERGENIC		
SNP_27048_A_31298101	NC_021163.1	Ca_Kabuli_Chr04	31298101	GG	AA	AA	DRR	101503950	transcription factor bHLH48-like
SNP_27049_A_31298267	NC_021163.1	Ca_Kabuli_Chr04	31298267	TT	GG	GG	DRR	101503950	transcription factor bHLH48-like
SNP_27050_A_31298354	NC_021163.1	Ca_Kabuli_Chr04	31298354	GG	AA	AA	DRR	101503950	transcription factor bHLH48-like
SNP_27053_A_31307147	NC_021163.1	Ca_Kabuli_Chr04	31307147	TT	CC	CC	URR	101503950	transcription factor bHLH48-like
SNP_27054_A_31307179	NC_021163.1	Ca_Kabuli_Chr04	31307179	TT	GG	GG	URR	101503950	transcription factor bHLH48-like
SNP_27055_A_31307280	NC_021163.1	Ca_Kabuli_Chr04	31307280	AA	GG	GG	URR	101503950	transcription factor bHLH48-like
SNP_27056_A_31307414	NC_021163.1	Ca_Kabuli_Chr04	31307414	GG	AA	AA	URR	101503950	transcription factor bHLH48-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27057_A_31307518	NC_021163.1	Ca_Kabuli_Chr04	31307518	CC	AA	AA	INTERGENIC			
SNP_27058_A_31307763	NC_021163.1	Ca_Kabuli_Chr04	31307763	GG	AA	AA	INTERGENIC			
SNP_27059_A_31308295	NC_021163.1	Ca_Kabuli_Chr04	31308295	CC	AA	AA	INTERGENIC			
SNP_27060_A_31310477	NC_021163.1	Ca_Kabuli_Chr04	31310477	AA	GG	GG	INTERGENIC			
SNP_27061_A_31312606	NC_021163.1	Ca_Kabuli_Chr04	31312606	AA	GG	GG	INTERGENIC			
SNP_27062_A_31316121	NC_021163.1	Ca_Kabuli_Chr04	31316121	AA	GG	GG	INTERGENIC			
SNP_27063_A_31317047	NC_021163.1	Ca_Kabuli_Chr04	31317047	AA	TT	TT	INTERGENIC			
SNP_27064_A_31317072	NC_021163.1	Ca_Kabuli_Chr04	31317072	CC	GG	GG	INTERGENIC			
SNP_27065_A_31317436	NC_021163.1	Ca_Kabuli_Chr04	31317436	CC	AA	AA	INTERGENIC			
SNP_27068_A_31319076	NC_021163.1	Ca_Kabuli_Chr04	31319076	CC	AA	AA	INTERGENIC			
SNP_27069_A_31321639	NC_021163.1	Ca_Kabuli_Chr04	31321639	TT	CC	CC	INTERGENIC			
SNP_27070_A_31322262	NC_021163.1	Ca_Kabuli_Chr04	31322262	CC	AA	AA	INTERGENIC			
SNP_27072_A_31323223	NC_021163.1	Ca_Kabuli_Chr04	31323223	TT	CC	CC	INTERGENIC			
SNP_27073_A_31324273	NC_021163.1	Ca_Kabuli_Chr04	31324273	GG	AA	AA	INTERGENIC			
SNP_27074_A_31325773	NC_021163.1	Ca_Kabuli_Chr04	31325773	TT	CC	CC	INTERGENIC			
SNP_27075_A_31326049	NC_021163.1	Ca_Kabuli_Chr04	31326049	GG	AA	AA	INTERGENIC			
SNP_27076_A_31332382	NC_021163.1	Ca_Kabuli_Chr04	31332382	CC	AA	AA	INTERGENIC			
SNP_27077_A_31332435	NC_021163.1	Ca_Kabuli_Chr04	31332435	TT	AA	AA	INTERGENIC			
SNP_27078_A_31334684	NC_021163.1	Ca_Kabuli_Chr04	31334684	TT	CC	CC	INTERGENIC			
SNP_27079_A_31334894	NC_021163.1	Ca_Kabuli_Chr04	31334894	TT	AA	AA	INTERGENIC			
SNP_27080_A_31334898	NC_021163.1	Ca_Kabuli_Chr04	31334898	AA	TT	TT	INTERGENIC			
SNP_27081_A_31336053	NC_021163.1	Ca_Kabuli_Chr04	31336053	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27082_A_31336364	NC_021163.1	Ca_Kabuli_Chr04	31336364	CC	TT	TT	INTERGENIC		
SNP_27083_A_31343995	NC_021163.1	Ca_Kabuli_Chr04	31343995	GG	AA	AA	INTERGENIC		
SNP_27084_A_31344029	NC_021163.1	Ca_Kabuli_Chr04	31344029	CC	TT	TT	INTERGENIC		
SNP_27085_A_31360724	NC_021163.1	Ca_Kabuli_Chr04	31360724	GG	CC	CC	INTERGENIC		
SNP_27086_A_31365215	NC_021163.1	Ca_Kabuli_Chr04	31365215	GG	AA	AA	INTERGENIC		
SNP_27087_A_31366062	NC_021163.1	Ca_Kabuli_Chr04	31366062	GG	AA	AA	INTERGENIC		
SNP_27088_A_31376118	NC_021163.1	Ca_Kabuli_Chr04	31376118	AA	TT	TT	INTERGENIC		
SNP_27089_A_31376342	NC_021163.1	Ca_Kabuli_Chr04	31376342	CC	GG	GG	INTERGENIC		
SNP_27090_A_31379089	NC_021163.1	Ca_Kabuli_Chr04	31379089	AA	GG	GG	SYNONYMOUS_CODING	101491139	Unknown function
SNP_27091_A_31379386	NC_021163.1	Ca_Kabuli_Chr04	31379386	AA	GG	GG	INTRON	101491139	Unknown function
SNP_27092_A_31379607	NC_021163.1	Ca_Kabuli_Chr04	31379607	CC	TT	TT	INTRON	101491139	Unknown function
SNP_27093_A_31385616	NC_021163.1	Ca_Kabuli_Chr04	31385616	GG	AA	AA	INTRON	101491139	Unknown function
SNP_27094_A_31385853	NC_021163.1	Ca_Kabuli_Chr04	31385853	TT	GG	GG	INTRON	101491139	Unknown function
SNP_27095_A_31385863	NC_021163.1	Ca_Kabuli_Chr04	31385863	CC	TT	TT	INTRON	101491139	Unknown function
SNP_27096_A_31388578	NC_021163.1	Ca_Kabuli_Chr04	31388578	CC	AA	AA	INTRON	101491139	Unknown function
SNP_27097_A_31389570	NC_021163.1	Ca_Kabuli_Chr04	31389570	GG	CC	CC	INTRON	101491139	Unknown function
SNP_27098_A_31394981	NC_021163.1	Ca_Kabuli_Chr04	31394981	AA	GG	GG	INTERGENIC		
SNP_27099_A_31399917	NC_021163.1	Ca_Kabuli_Chr04	31399917	GG	TT	TT	URR	101491761	uncharacterized LOC101491761
SNP_27101_A_31400814	NC_021163.1	Ca_Kabuli_Chr04	31400814	AA	GG	GG	URR	101491761	uncharacterized LOC101491761
SNP_27102_A_31400823	NC_021163.1	Ca_Kabuli_Chr04	31400823	CC	TT	TT	URR	101491761	uncharacterized LOC101491761
SNP_27103_A_31400828	NC_021163.1	Ca_Kabuli_Chr04	31400828	TT	CC	CC	URR	101491761	uncharacterized LOC101491761
SNP_27105_A_31410522	NC_021163.1	Ca_Kabuli_Chr04	31410522	AA	TT	TT	INTRON	101492429	uncharacterized LOC101492429

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27106_A_31410541	NC_021163.1	Ca_Kabuli_Chr04	31410541	AA	CC	CC	INTRON	101492429	uncharacterized LOC101492429
SNP_27107_A_31410580	NC_021163.1	Ca_Kabuli_Chr04	31410580	AA	TT	TT	INTRON	101492429	uncharacterized LOC101492429
SNP_27108_A_31414748	NC_021163.1	Ca_Kabuli_Chr04	31414748	TT	CC	CC	DRR	101492762	uncharacterized LOC101492762
SNP_27109_A_31416258	NC_021163.1	Ca_Kabuli_Chr04	31416258	CC	TT	TT	INTERGENIC		
SNP_27110_A_31416297	NC_021163.1	Ca_Kabuli_Chr04	31416297	AA	CC	CC	INTERGENIC		
SNP_27111_A_31417388	NC_021163.1	Ca_Kabuli_Chr04	31417388	GG	AA	AA	INTERGENIC		
SNP_27113_A_31424774	NC_021163.1	Ca_Kabuli_Chr04	31424774	TT	CC	CC	INTRON	101492762	uncharacterized LOC101492762
SNP_27114_A_31424858	NC_021163.1	Ca_Kabuli_Chr04	31424858	GG	AA	AA	INTRON	101492762	uncharacterized LOC101492762
SNP_27115_A_31424909	NC_021163.1	Ca_Kabuli_Chr04	31424909	CC	TT	TT	INTRON	101492762	uncharacterized LOC101492762
SNP_27116_A_31425097	NC_021163.1	Ca_Kabuli_Chr04	31425097	TT	CC	CC	SYNONYMOUS_CODING	101492762	uncharacterized LOC101492762
SNP_27117_A_31444983	NC_021163.1	Ca_Kabuli_Chr04	31444983	TT	CC	CC	INTERGENIC		
SNP_27118_A_31445165	NC_021163.1	Ca_Kabuli_Chr04	31445165	TT	CC	CC	INTERGENIC		
SNP_27119_A_31445198	NC_021163.1	Ca_Kabuli_Chr04	31445198	TT	CC	CC	INTERGENIC		
SNP_27120_A_31445200	NC_021163.1	Ca_Kabuli_Chr04	31445200	AA	GG	GG	INTERGENIC		
SNP_27121_A_31445232	NC_021163.1	Ca_Kabuli_Chr04	31445232	TT	CC	CC	INTERGENIC		
SNP_27122_A_31445237	NC_021163.1	Ca_Kabuli_Chr04	31445237	TT	AA	AA	INTERGENIC		
SNP_27124_A_31448800	NC_021163.1	Ca_Kabuli_Chr04	31448800	CC	TT	TT	DRR	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27125_A_31451584	NC_021163.1	Ca_Kabuli_Chr04	31451584	AA	GG	GG	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27126_A_31452254	NC_021163.1	Ca_Kabuli_Chr04	31452254	TT	CC	CC	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27128_A_31460469	NC_021163.1	Ca_Kabuli_Chr04	31460469	TT	AA	AA	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27129_A_31460482	NC_021163.1	Ca_Kabuli_Chr04	31460482	AA	CC	CC	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27130_A_31460520	NC_021163.1	Ca_Kabuli_Chr04	31460520	GG	TT	TT	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27131_A_31460561	NC_021163.1	Ca_Kabuli_Chr04	31460561	TT	CC	CC	INTRON	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27132_A_31462980	NC_021163.1	Ca_Kabuli_Chr04	31462980	CC	TT	TT	URR	101508453	protein NRT1/ PTR FAMILY 5.2-like
SNP_27133_A_31463326	NC_021163.1	Ca_Kabuli_Chr04	31463326	GG	AA	AA	INTERGENIC		
SNP_27134_A_31467918	NC_021163.1	Ca_Kabuli_Chr04	31467918	TT	CC	CC	INTERGENIC		
SNP_27135_A_31468245	NC_021163.1	Ca_Kabuli_Chr04	31468245	AA	GG	GG	INTERGENIC		
SNP_27136_A_31469546	NC_021163.1	Ca_Kabuli_Chr04	31469546	GG	TT	TT	INTERGENIC		
SNP_27137_A_31471156	NC_021163.1	Ca_Kabuli_Chr04	31471156	GG	AA	AA	INTERGENIC		
SNP_27138_A_31472734	NC_021163.1	Ca_Kabuli_Chr04	31472734	TT	GG	GG	INTERGENIC		
SNP_27139_A_31473952	NC_021163.1	Ca_Kabuli_Chr04	31473952	CC	TT	TT	INTERGENIC		
SNP_27140_A_31491317	NC_021163.1	Ca_Kabuli_Chr04	31491317	GG	TT	TT	INTERGENIC		
SNP_27141_A_31518716	NC_021163.1	Ca_Kabuli_Chr04	31518716	AA	TT	TT	INTERGENIC		
SNP_27142_A_31522982	NC_021163.1	Ca_Kabuli_Chr04	31522982	AA	GG	GG	INTERGENIC		
SNP_27143_A_31527203	NC_021163.1	Ca_Kabuli_Chr04	31527203	CC	TT	TT	INTERGENIC		
SNP_27145_A_31531499	NC_021163.1	Ca_Kabuli_Chr04	31531499	AA	GG	GG	INTERGENIC		
SNP_27146_A_31531507	NC_021163.1	Ca_Kabuli_Chr04	31531507	GG	AA	AA	INTERGENIC		
SNP_27148_A_31531644	NC_021163.1	Ca_Kabuli_Chr04	31531644	GG	TT	TT	INTERGENIC		
SNP_27150_A_31534777	NC_021163.1	Ca_Kabuli_Chr04	31534777	TT	CC	CC	INTERGENIC		
SNP_27151_A_31534845	NC_021163.1	Ca_Kabuli_Chr04	31534845	CC	AA	AA	INTERGENIC		
SNP_27152_A_31534850	NC_021163.1	Ca_Kabuli_Chr04	31534850	TT	GG	GG	INTERGENIC		
SNP_27153_A_31546099	NC_021163.1	Ca_Kabuli_Chr04	31546099	GG	TT	TT	INTERGENIC		
SNP_27154_A_31550440	NC_021163.1	Ca_Kabuli_Chr04	31550440	CC	TT	TT	SYNONYMOUS_CODING	101493097	cyanate hydratase
SNP_27155_A_31552621	NC_021163.1	Ca_Kabuli_Chr04	31552621	CC	TT	TT	INTRON	101493097	cyanate hydratase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27156_A_31556005	NC_021163.1	Ca_Kabuli_Chr04	31556005	GG	AA	AA	INTERGENIC		
SNP_27157_A_31556815	NC_021163.1	Ca_Kabuli_Chr04	31556815	GG	AA	AA	INTERGENIC		
SNP_27158_A_31560812	NC_021163.1	Ca_Kabuli_Chr04	31560812	AA	TT	TT	INTERGENIC		
SNP_27159_A_31561426	NC_021163.1	Ca_Kabuli_Chr04	31561426	CC	TT	TT	INTERGENIC		
SNP_27160_A_31561903	NC_021163.1	Ca_Kabuli_Chr04	31561903	AA	GG	GG	INTERGENIC		
SNP_27161_A_31562726	NC_021163.1	Ca_Kabuli_Chr04	31562726	CC	TT	TT	DRR	101493425	multiple organellar RNA editing factor 2, chloroplastic-like
SNP_27162_A_31562736	NC_021163.1	Ca_Kabuli_Chr04	31562736	AA	GG	GG	DRR	101493425	multiple organellar RNA editing factor 2, chloroplastic-like
SNP_27163_A_31569765	NC_021163.1	Ca_Kabuli_Chr04	31569765	TT	CC	CC	URR	101509075	uncharacterized LOC101509075
SNP_27164_A_31569977	NC_021163.1	Ca_Kabuli_Chr04	31569977	GG	AA	AA	URR	101509075	uncharacterized LOC101509075
SNP_27166_A_31570196	NC_021163.1	Ca_Kabuli_Chr04	31570196	CC	TT	TT	URR	101509075	uncharacterized LOC101509075
SNP_27167_A_31578906	NC_021163.1	Ca_Kabuli_Chr04	31578906	CC	TT	TT	INTERGENIC		
SNP_27168_A_31579229	NC_021163.1	Ca_Kabuli_Chr04	31579229	AA	GG	GG	INTERGENIC		
SNP_27169_A_31580495	NC_021163.1	Ca_Kabuli_Chr04	31580495	CC	TT	TT	DRR	101509404	uncharacterized LOC101509404
SNP_27171_A_31581349	NC_021163.1	Ca_Kabuli_Chr04	31581349	TT	GG	GG	NON_SYNONYMOUS_CODING	101509404	uncharacterized LOC101509404
SNP_27172_A_31582060	NC_021163.1	Ca_Kabuli_Chr04	31582060	GG	AA	AA	NON_SYNONYMOUS_CODING	101509404	uncharacterized LOC101509404
SNP_27173_A_31582791	NC_021163.1	Ca_Kabuli_Chr04	31582791	GG	AA	AA	URR	101509404	uncharacterized LOC101509404
SNP_27174_A_31582840	NC_021163.1	Ca_Kabuli_Chr04	31582840	GG	TT	TT	URR	101509404	uncharacterized LOC101509404
SNP_27176_A_31611392	NC_021163.1	Ca_Kabuli_Chr04	31611392	GG	AA	AA	INTERGENIC		
SNP_27177_A_31611826	NC_021163.1	Ca_Kabuli_Chr04	31611826	GG	AA	AA	INTERGENIC		
SNP_27180_A_31612446	NC_021163.1	Ca_Kabuli_Chr04	31612446	CC	TT	TT	INTERGENIC		
SNP_27182_A_31613775	NC_021163.1	Ca_Kabuli_Chr04	31613775	GG	CC	CC	INTERGENIC		
SNP_27183_A_31614685	NC_021163.1	Ca_Kabuli_Chr04	31614685	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27184_A_31615434	NC_021163.1	Ca_Kabuli_Chr04	31615434	TT	CC	CC	INTERGENIC			
SNP_27185_A_31615439	NC_021163.1	Ca_Kabuli_Chr04	31615439	GG	AA	AA	INTERGENIC			
SNP_27186_A_31617270	NC_021163.1	Ca_Kabuli_Chr04	31617270	AA	GG	GG	INTERGENIC			
SNP_27187_A_31617707	NC_021163.1	Ca_Kabuli_Chr04	31617707	AA	TT	TT	INTERGENIC			
SNP_27188_A_31618001	NC_021163.1	Ca_Kabuli_Chr04	31618001	TT	CC	CC	INTERGENIC			
SNP_27189_A_31618031	NC_021163.1	Ca_Kabuli_Chr04	31618031	TT	GG	GG	INTERGENIC			
SNP_27190_A_31618179	NC_021163.1	Ca_Kabuli_Chr04	31618179	CC	TT	TT	INTERGENIC			
SNP_27191_A_31618217	NC_021163.1	Ca_Kabuli_Chr04	31618217	CC	AA	AA	INTERGENIC			
SNP_27192_A_31619074	NC_021163.1	Ca_Kabuli_Chr04	31619074	GG	AA	AA	INTERGENIC			
SNP_27193_A_31619397	NC_021163.1	Ca_Kabuli_Chr04	31619397	AA	GG	GG	INTERGENIC			
SNP_27194_A_31619416	NC_021163.1	Ca_Kabuli_Chr04	31619416	AA	GG	GG	INTERGENIC			
SNP_27195_A_31619891	NC_021163.1	Ca_Kabuli_Chr04	31619891	AA	GG	GG	INTERGENIC			
SNP_27196_A_31621387	NC_021163.1	Ca_Kabuli_Chr04	31621387	TT	CC	CC	INTERGENIC			
SNP_27197_A_31622077	NC_021163.1	Ca_Kabuli_Chr04	31622077	CC	TT	TT	INTERGENIC			
SNP_27198_A_31626665	NC_021163.1	Ca_Kabuli_Chr04	31626665	AA	GG	GG	INTERGENIC			
SNP_27199_A_31626809	NC_021163.1	Ca_Kabuli_Chr04	31626809	CC	GG	GG	INTERGENIC			
SNP_27200_A_31628016	NC_021163.1	Ca_Kabuli_Chr04	31628016	CC	AA	AA	INTERGENIC			
SNP_27201_A_31630110	NC_021163.1	Ca_Kabuli_Chr04	31630110	AA	GG	GG	INTERGENIC			
SNP_27202_A_31630493	NC_021163.1	Ca_Kabuli_Chr04	31630493	AA	GG	GG	INTERGENIC			
SNP_27204_A_31630560	NC_021163.1	Ca_Kabuli_Chr04	31630560	AA	GG	GG	INTERGENIC			
SNP_27206_A_31630605	NC_021163.1	Ca_Kabuli_Chr04	31630605	AA	GG	GG	INTERGENIC			
SNP_27207_A_31630959	NC_021163.1	Ca_Kabuli_Chr04	31630959	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27209_A_31631026	NC_021163.1	Ca_Kabuli_Chr04	31631026	TT	GG	GG	INTERGENIC			
SNP_27210_A_31631050	NC_021163.1	Ca_Kabuli_Chr04	31631050	AA	GG	GG	INTERGENIC			
SNP_27212_A_31631910	NC_021163.1	Ca_Kabuli_Chr04	31631910	GG	AA	AA	INTERGENIC			
SNP_27213_A_31632134	NC_021163.1	Ca_Kabuli_Chr04	31632134	TT	CC	CC	INTERGENIC			
SNP_27214_A_31632152	NC_021163.1	Ca_Kabuli_Chr04	31632152	TT	CC	CC	INTERGENIC			
SNP_27215_A_31632210	NC_021163.1	Ca_Kabuli_Chr04	31632210	TT	CC	CC	INTERGENIC			
SNP_27219_A_31635903	NC_021163.1	Ca_Kabuli_Chr04	31635903	CC	TT	TT	INTERGENIC			
SNP_27220_A_31635943	NC_021163.1	Ca_Kabuli_Chr04	31635943	GG	AA	AA	INTERGENIC			
SNP_27221_A_31635946	NC_021163.1	Ca_Kabuli_Chr04	31635946	GG	AA	AA	INTERGENIC			
SNP_27222_A_31635950	NC_021163.1	Ca_Kabuli_Chr04	31635950	CC	TT	TT	INTERGENIC			
SNP_27223_A_31635956	NC_021163.1	Ca_Kabuli_Chr04	31635956	GG	AA	AA	INTERGENIC			
SNP_27224_A_31637108	NC_021163.1	Ca_Kabuli_Chr04	31637108	CC	GG	GG	INTERGENIC			
SNP_27225_A_31637109	NC_021163.1	Ca_Kabuli_Chr04	31637109	AA	GG	GG	INTERGENIC			
SNP_27226_A_31637118	NC_021163.1	Ca_Kabuli_Chr04	31637118	AA	GG	GG	INTERGENIC			
SNP_27227_A_31637141	NC_021163.1	Ca_Kabuli_Chr04	31637141	AA	GG	GG	INTERGENIC			
SNP_27228_A_31638771	NC_021163.1	Ca_Kabuli_Chr04	31638771	CC	TT	TT	INTERGENIC			
SNP_27229_A_31638781	NC_021163.1	Ca_Kabuli_Chr04	31638781	AA	GG	GG	INTERGENIC			
SNP_27230_A_31638803	NC_021163.1	Ca_Kabuli_Chr04	31638803	TT	AA	AA	INTERGENIC			
SNP_27231_A_31639023	NC_021163.1	Ca_Kabuli_Chr04	31639023	AA	CC	CC	INTERGENIC			
SNP_27232_A_31639191	NC_021163.1	Ca_Kabuli_Chr04	31639191	AA	GG	GG	INTERGENIC			
SNP_27233_A_31639195	NC_021163.1	Ca_Kabuli_Chr04	31639195	GG	TT	TT	INTERGENIC			
SNP_27234_A_31639199	NC_021163.1	Ca_Kabuli_Chr04	31639199	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27236_A_31639732	NC_021163.1	Ca_Kabuli_Chr04	31639732	AA	TT	TT	INTERGENIC		
SNP_27237_A_31639795	NC_021163.1	Ca_Kabuli_Chr04	31639795	TT	CC	CC	INTERGENIC		
SNP_27238_A_31639807	NC_021163.1	Ca_Kabuli_Chr04	31639807	AA	GG	GG	INTERGENIC		
SNP_27240_A_31642511	NC_021163.1	Ca_Kabuli_Chr04	31642511	GG	AA	AA	INTRON	101494472	phosphate transporter PHO1-like
SNP_27241_A_31642513	NC_021163.1	Ca_Kabuli_Chr04	31642513	AA	GG	GG	INTRON	101494472	phosphate transporter PHO1-like
SNP_27242_A_31642620	NC_021163.1	Ca_Kabuli_Chr04	31642620	GG	CC	CC	INTRON	101494472	phosphate transporter PHO1-like
SNP_27243_A_31642683	NC_021163.1	Ca_Kabuli_Chr04	31642683	CC	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27244_A_31642801	NC_021163.1	Ca_Kabuli_Chr04	31642801	CC	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27245_A_31643450	NC_021163.1	Ca_Kabuli_Chr04	31643450	AA	GG	GG	INTRON	101494472	phosphate transporter PHO1-like
SNP_27246_A_31643688	NC_021163.1	Ca_Kabuli_Chr04	31643688	GG	AA	AA	INTRON	101494472	phosphate transporter PHO1-like
SNP_27247_A_31644155	NC_021163.1	Ca_Kabuli_Chr04	31644155	CC	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27248_A_31644162	NC_021163.1	Ca_Kabuli_Chr04	31644162	CC	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27249_A_31644164	NC_021163.1	Ca_Kabuli_Chr04	31644164	AA	GG	GG	INTRON	101494472	phosphate transporter PHO1-like
SNP_27250_A_31644181	NC_021163.1	Ca_Kabuli_Chr04	31644181	TT	GG	GG	INTRON	101494472	phosphate transporter PHO1-like
SNP_27251_A_31644360	NC_021163.1	Ca_Kabuli_Chr04	31644360	AA	CC	CC	INTRON	101494472	phosphate transporter PHO1-like
SNP_27253_A_31644770	NC_021163.1	Ca_Kabuli_Chr04	31644770	AA	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27254_A_31646461	NC_021163.1	Ca_Kabuli_Chr04	31646461	AA	CC	CC	INTRON	101494472	phosphate transporter PHO1-like
SNP_27256_A_31647379	NC_021163.1	Ca_Kabuli_Chr04	31647379	AA	GG	GG	INTRON	101494472	phosphate transporter PHO1-like
SNP_27259_A_31647808	NC_021163.1	Ca_Kabuli_Chr04	31647808	GG	TT	TT	INTRON	101494472	phosphate transporter PHO1-like
SNP_27260_A_31647841	NC_021163.1	Ca_Kabuli_Chr04	31647841	TT	CC	CC	INTRON	101494472	phosphate transporter PHO1-like
SNP_27261_A_31648189	NC_021163.1	Ca_Kabuli_Chr04	31648189	AA	TT	TT	SYNONYMOUS_CODING	101494472	phosphate transporter PHO1-like
SNP_27265_A_31652463	NC_021163.1	Ca_Kabuli_Chr04	31652463	GG	AA	AA	URR	101494472	phosphate transporter PHO1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27266_A_31653167	NC_021163.1	Ca_Kabuli_Chr04	31653167	CC	AA	AA	URR	101494472	phosphate transporter PHO1-like
SNP_27267_A_31653177	NC_021163.1	Ca_Kabuli_Chr04	31653177	GG	TT	TT	URR	101494472	phosphate transporter PHO1-like
SNP_27269_A_31653455	NC_021163.1	Ca_Kabuli_Chr04	31653455	TT	CC	CC	URR	101494472	phosphate transporter PHO1-like
SNP_27270_A_31653900	NC_021163.1	Ca_Kabuli_Chr04	31653900	TT	CC	CC	URR	101494472	phosphate transporter PHO1-like
SNP_27271_A_31654089	NC_021163.1	Ca_Kabuli_Chr04	31654089	TT	CC	CC	INTERGENIC		
SNP_27272_A_31654104	NC_021163.1	Ca_Kabuli_Chr04	31654104	AA	GG	GG	INTERGENIC		
SNP_27273_A_31671713	NC_021163.1	Ca_Kabuli_Chr04	31671713	CC	AA	AA	INTERGENIC		
SNP_27274_A_31671930	NC_021163.1	Ca_Kabuli_Chr04	31671930	GG	AA	AA	INTERGENIC		
SNP_27275_A_31672244	NC_021163.1	Ca_Kabuli_Chr04	31672244	TT	CC	CC	INTERGENIC		
SNP_27276_A_31683874	NC_021163.1	Ca_Kabuli_Chr04	31683874	CC	AA	AA	INTERGENIC		
SNP_27277_A_31684236	NC_021163.1	Ca_Kabuli_Chr04	31684236	CC	AA	AA	INTERGENIC		
SNP_27278_A_31690535	NC_021163.1	Ca_Kabuli_Chr04	31690535	TT	CC	CC	INTERGENIC		
SNP_27279_A_31690709	NC_021163.1	Ca_Kabuli_Chr04	31690709	CC	TT	TT	INTERGENIC		
SNP_27280_A_31706897	NC_021163.1	Ca_Kabuli_Chr04	31706897	CC	TT	TT	INTERGENIC		
SNP_27281_A_31715121	NC_021163.1	Ca_Kabuli_Chr04	31715121	CC	AA	AA	INTERGENIC		
SNP_27282_A_31715143	NC_021163.1	Ca_Kabuli_Chr04	31715143	AA	TT	TT	INTERGENIC		
SNP_27283_A_31716961	NC_021163.1	Ca_Kabuli_Chr04	31716961	GG	AA	AA	INTERGENIC		
SNP_27285_A_31719900	NC_021163.1	Ca_Kabuli_Chr04	31719900	AA	GG	GG	INTERGENIC		
SNP_27286_A_31722151	NC_021163.1	Ca_Kabuli_Chr04	31722151	CC	AA	AA	DRR	101495123	CRIB domain-containing protein RIC1-like
SNP_27288_A_31734364	NC_021163.1	Ca_Kabuli_Chr04	31734364	GG	AA	AA	URR	101495661	glycolipid transfer protein 1-like
SNP_27289_A_31737101	NC_021163.1	Ca_Kabuli_Chr04	31737101	CC	TT	TT	INTERGENIC		
SNP_27290_A_31737608	NC_021163.1	Ca_Kabuli_Chr04	31737608	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27291_A_31745404	NC_021163.1	Ca_Kabuli_Chr04	31745404	GG	TT	TT	INTERGENIC		
SNP_27292_A_31751653	NC_021163.1	Ca_Kabuli_Chr04	31751653	CC	TT	TT	INTERGENIC		
SNP_27294_A_31758342	NC_021163.1	Ca_Kabuli_Chr04	31758342	GG	AA	AA	URR	101510047	proline-rich protein 2-like
SNP_27295_A_31758641	NC_021163.1	Ca_Kabuli_Chr04	31758641	GG	AA	AA	URR	101510047	proline-rich protein 2-like
SNP_27296_A_31765055	NC_021163.1	Ca_Kabuli_Chr04	31765055	AA	TT	TT	INTRON	101510376	F-box/kelch-repeat protein At1g55270-like
SNP_27297_A_31765077	NC_021163.1	Ca_Kabuli_Chr04	31765077	CC	TT	TT	INTRON	101510376	F-box/kelch-repeat protein At1g55270-like
SNP_27298_A_31774775	NC_021163.1	Ca_Kabuli_Chr04	31774775	TT	CC	CC	INTERGENIC		
SNP_27299_A_31775130	NC_021163.1	Ca_Kabuli_Chr04	31775130	TT	CC	CC	INTERGENIC		
SNP_27301_A_31781811	NC_021163.1	Ca_Kabuli_Chr04	31781811	CC	TT	TT	INTERGENIC		
SNP_27302_A_31781847	NC_021163.1	Ca_Kabuli_Chr04	31781847	AA	TT	TT	INTERGENIC		
SNP_27303_A_31781857	NC_021163.1	Ca_Kabuli_Chr04	31781857	TT	CC	CC	INTERGENIC		
SNP_27304_A_31781878	NC_021163.1	Ca_Kabuli_Chr04	31781878	TT	CC	CC	INTERGENIC		
SNP_27305_A_31794144	NC_021163.1	Ca_Kabuli_Chr04	31794144	CC	TT	TT	INTERGENIC		
SNP_27306_A_31797527	NC_021163.1	Ca_Kabuli_Chr04	31797527	TT	CC	CC	INTERGENIC		
SNP_27307_A_31797959	NC_021163.1	Ca_Kabuli_Chr04	31797959	CC	TT	TT	INTERGENIC		
SNP_27308_A_31800667	NC_021163.1	Ca_Kabuli_Chr04	31800667	TT	AA	AA	INTERGENIC		
SNP_27309_A_31801374	NC_021163.1	Ca_Kabuli_Chr04	31801374	AA	CC	CC	INTERGENIC		
SNP_27310_A_31801621	NC_021163.1	Ca_Kabuli_Chr04	31801621	GG	AA	AA	INTERGENIC		
SNP_27312_A_31814643	NC_021163.1	Ca_Kabuli_Chr04	31814643	TT	CC	CC	INTERGENIC		
SNP_27313_A_31815905	NC_021163.1	Ca_Kabuli_Chr04	31815905	AA	CC	CC	INTERGENIC		
SNP_27315_A_31816921	NC_021163.1	Ca_Kabuli_Chr04	31816921	TT	AA	AA	INTERGENIC		
SNP_27317_A_31822942	NC_021163.1	Ca_Kabuli_Chr04	31822942	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27318_A_31823317	NC_021163.1	Ca_Kabuli_Chr04	31823317	CC	TT	TT	INTERGENIC		
SNP_27319_A_31824905	NC_021163.1	Ca_Kabuli_Chr04	31824905	CC	TT	TT	INTERGENIC		
SNP_27320_A_31826422	NC_021163.1	Ca_Kabuli_Chr04	31826422	CC	TT	TT	INTERGENIC		
SNP_27321_A_31832079	NC_021163.1	Ca_Kabuli_Chr04	31832079	TT	CC	CC	SYNONYMOUS_CODING	101511025	uncharacterized LOC101511025
SNP_27322_A_31832157	NC_021163.1	Ca_Kabuli_Chr04	31832157	GG	TT	TT	SYNONYMOUS_CODING	101511025	uncharacterized LOC101511025
SNP_27323_A_31832471	NC_021163.1	Ca_Kabuli_Chr04	31832471	TT	CC	CC	NON_SYNONYMOUS_CODING	101511025	uncharacterized LOC101511025
SNP_27325_A_31855791	NC_021163.1	Ca_Kabuli_Chr04	31855791	TT	CC	CC	INTERGENIC		
SNP_27327_A_31860862	NC_021163.1	Ca_Kabuli_Chr04	31860862	CC	GG	GG	INTERGENIC		
SNP_27328_A_31870053	NC_021163.1	Ca_Kabuli_Chr04	31870053	TT	CC	CC	INTERGENIC		
SNP_27329_A_31873134	NC_021163.1	Ca_Kabuli_Chr04	31873134	AA	TT	TT	INTERGENIC		
SNP_27330_A_31873218	NC_021163.1	Ca_Kabuli_Chr04	31873218	CC	AA	AA	DRR	101497529	serine/threonine-protein phosphatase 5
SNP_27331_A_31873791	NC_021163.1	Ca_Kabuli_Chr04	31873791	TT	GG	GG	DRR	101497529	serine/threonine-protein phosphatase 5
SNP_27332_A_31873796	NC_021163.1	Ca_Kabuli_Chr04	31873796	TT	CC	CC	DRR	101497529	serine/threonine-protein phosphatase 5
SNP_27333_A_31881740	NC_021163.1	Ca_Kabuli_Chr04	31881740	GG	TT	TT	URR	101497529	serine/threonine-protein phosphatase 5
SNP_27334_A_31887000	NC_021163.1	Ca_Kabuli_Chr04	31887000	CC	TT	TT	INTERGENIC		
SNP_27335_A_31887538	NC_021163.1	Ca_Kabuli_Chr04	31887538	TT	AA	AA	INTERGENIC		
SNP_27336_A_31887541	NC_021163.1	Ca_Kabuli_Chr04	31887541	GG	AA	AA	INTERGENIC		
SNP_27337_A_31887569	NC_021163.1	Ca_Kabuli_Chr04	31887569	GG	AA	AA	INTERGENIC		
SNP_27339_A_31892272	NC_021163.1	Ca_Kabuli_Chr04	31892272	TT	CC	CC	INTERGENIC		
SNP_27340_A_31894327	NC_021163.1	Ca_Kabuli_Chr04	31894327	TT	CC	CC	INTERGENIC		
SNP_27341_A_31895654	NC_021163.1	Ca_Kabuli_Chr04	31895654	CC	AA	AA	INTERGENIC		
SNP_27342_A_31895665	NC_021163.1	Ca_Kabuli_Chr04	31895665	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27343_A_31908095	NC_021163.1	Ca_Kabuli_Chr04	31908095	TT	CC	CC	INTERGENIC		
SNP_27344_A_31908146	NC_021163.1	Ca_Kabuli_Chr04	31908146	TT	CC	CC	INTERGENIC		
SNP_27345_A_31911863	NC_021163.1	Ca_Kabuli_Chr04	31911863	CC	TT	TT	INTERGENIC		
SNP_27346_A_31915274	NC_021163.1	Ca_Kabuli_Chr04	31915274	GG	AA	AA	INTERGENIC		
SNP_27347_A_31916136	NC_021163.1	Ca_Kabuli_Chr04	31916136	TT	CC	CC	DRR	101511655	uncharacterized protein At4g04775-like
SNP_27348_A_31916306	NC_021163.1	Ca_Kabuli_Chr04	31916306	TT	GG	GG	DRR	101511655	uncharacterized protein At4g04775-like
SNP_27349_A_31916541	NC_021163.1	Ca_Kabuli_Chr04	31916541	AA	CC	GG	DRR	101511655	uncharacterized protein At4g04775-like
SNP_27350_A_31916552	NC_021163.1	Ca_Kabuli_Chr04	31916552	GG	TT	TT	DRR	101511655	uncharacterized protein At4g04775-like
SNP_27351_A_31917717	NC_021163.1	Ca_Kabuli_Chr04	31917717	CC	TT	TT	URR	101511655	uncharacterized protein At4g04775-like
SNP_27352_A_31920299	NC_021163.1	Ca_Kabuli_Chr04	31920299	CC	GG	GG	NON_SYNONYMOUS_CODING	id86414	Unknown function
SNP_27353_A_31925411	NC_021163.1	Ca_Kabuli_Chr04	31925411	TT	CC	CC	URR	101498177	uncharacterized LOC101498177
SNP_27356_A_31936145	NC_021163.1	Ca_Kabuli_Chr04	31936145	GG	AA	AA	INTERGENIC		
SNP_27357_A_31936751	NC_021163.1	Ca_Kabuli_Chr04	31936751	AA	GG	GG	DRR	101512306	Unknown function
SNP_27359_A_31938071	NC_021163.1	Ca_Kabuli_Chr04	31938071	AA	CC	CC	NON_SYNONYMOUS_CODING	101512306	Unknown function
SNP_27360_A_31950256	NC_021163.1	Ca_Kabuli_Chr04	31950256	AA	GG	GG	INTRON	101512946	protein jagged-1b-like
SNP_27361_A_31950501	NC_021163.1	Ca_Kabuli_Chr04	31950501	GG	AA	AA	INTRON	101512946	protein jagged-1b-like
SNP_27362_A_31950527	NC_021163.1	Ca_Kabuli_Chr04	31950527	AA	GG	GG	INTRON	101512946	protein jagged-1b-like
SNP_27363_A_31959945	NC_021163.1	Ca_Kabuli_Chr04	31959945	AA	GG	GG	INTRON	101512946	protein jagged-1b-like
SNP_27364_A_31960227	NC_021163.1	Ca_Kabuli_Chr04	31960227	GG	CC	CC	INTRON	101512946	protein jagged-1b-like
SNP_27365_A_31960231	NC_021163.1	Ca_Kabuli_Chr04	31960231	TT	CC	CC	INTRON	101512946	protein jagged-1b-like
SNP_27366_A_31962515	NC_021163.1	Ca_Kabuli_Chr04	31962515	CC	TT	TT	INTRON	101512946	protein jagged-1b-like
SNP_27367_A_31962545	NC_021163.1	Ca_Kabuli_Chr04	31962545	CC	TT	TT	INTRON	101512946	protein jagged-1b-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27368_A_31966284	NC_021163.1	Ca_Kabuli_Chr04	31966284	TT	CC	CC	INTRON	101512946	protein jagged-1b-like
SNP_27369_A_31966328	NC_021163.1	Ca_Kabuli_Chr04	31966328	AA	CC	CC	INTRON	101512946	protein jagged-1b-like
SNP_27372_A_31973264	NC_021163.1	Ca_Kabuli_Chr04	31973264	AA	CC	CC	INTERGENIC		
SNP_27373_A_31973278	NC_021163.1	Ca_Kabuli_Chr04	31973278	TT	CC	CC	INTERGENIC		
SNP_27374_A_31973523	NC_021163.1	Ca_Kabuli_Chr04	31973523	GG	AA	AA	INTERGENIC		
SNP_27375_A_31973534	NC_021163.1	Ca_Kabuli_Chr04	31973534	AA	GG	GG	INTERGENIC		
SNP_27376_A_31973553	NC_021163.1	Ca_Kabuli_Chr04	31973553	CC	TT	TT	INTERGENIC		
SNP_27377_A_31973554	NC_021163.1	Ca_Kabuli_Chr04	31973554	AA	TT	TT	INTERGENIC		
SNP_27379_A_31974414	NC_021163.1	Ca_Kabuli_Chr04	31974414	AA	GG	GG	INTERGENIC		
SNP_27380_A_31974424	NC_021163.1	Ca_Kabuli_Chr04	31974424	GG	AA	AA	INTERGENIC		
SNP_27381_A_31974429	NC_021163.1	Ca_Kabuli_Chr04	31974429	TT	AA	AA	INTERGENIC		
SNP_27382_A_31975784	NC_021163.1	Ca_Kabuli_Chr04	31975784	CC	AA	AA	INTERGENIC		
SNP_27383_A_31975804	NC_021163.1	Ca_Kabuli_Chr04	31975804	AA	GG	GG	INTERGENIC		
SNP_27384_A_31975816	NC_021163.1	Ca_Kabuli_Chr04	31975816	CC	TT	TT	INTERGENIC		
SNP_27385_A_31975936	NC_021163.1	Ca_Kabuli_Chr04	31975936	TT	CC	CC	INTERGENIC		
SNP_27386_A_31975997	NC_021163.1	Ca_Kabuli_Chr04	31975997	AA	GG	GG	INTERGENIC		
SNP_27387_A_31976005	NC_021163.1	Ca_Kabuli_Chr04	31976005	CC	TT	TT	INTERGENIC		
SNP_27388_A_31977395	NC_021163.1	Ca_Kabuli_Chr04	31977395	TT	CC	CC	INTERGENIC		
SNP_27389_A_31978138	NC_021163.1	Ca_Kabuli_Chr04	31978138	CC	AA	AA	INTERGENIC		
SNP_27390_A_31978282	NC_021163.1	Ca_Kabuli_Chr04	31978282	AA	TT	TT	INTERGENIC		
SNP_27391_A_31978505	NC_021163.1	Ca_Kabuli_Chr04	31978505	CC	TT	TT	INTERGENIC		
SNP_27392_A_31978506	NC_021163.1	Ca_Kabuli_Chr04	31978506	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27393_A_31980790	NC_021163.1	Ca_Kabuli_Chr04	31980790	CC	TT	TT	INTERGENIC		
SNP_27394_A_31986635	NC_021163.1	Ca_Kabuli_Chr04	31986635	GG	AA	AA	INTRON	101498404	CCR4-NOT transcription complex subunit 11
SNP_27395_A_31989501	NC_021163.1	Ca_Kabuli_Chr04	31989501	GG	AA	AA	URR	101498404	CCR4-NOT transcription complex subunit 11
SNP_27397_A_31990203	NC_021163.1	Ca_Kabuli_Chr04	31990203	TT	CC	CC	INTERGENIC		
SNP_27398_A_31991273	NC_021163.1	Ca_Kabuli_Chr04	31991273	TT	GG	GG	INTERGENIC		
SNP_27400_A_31991578	NC_021163.1	Ca_Kabuli_Chr04	31991578	AA	GG	GG	INTERGENIC		
SNP_27401_A_31992197	NC_021163.1	Ca_Kabuli_Chr04	31992197	GG	CC	CC	INTERGENIC		
SNP_27402_A_31992434	NC_021163.1	Ca_Kabuli_Chr04	31992434	GG	CC	CC	INTERGENIC		
SNP_27403_A_31992481	NC_021163.1	Ca_Kabuli_Chr04	31992481	AA	GG	GG	INTERGENIC		
SNP_27404_A_31992502	NC_021163.1	Ca_Kabuli_Chr04	31992502	TT	CC	CC	INTERGENIC		
SNP_27405_A_31992690	NC_021163.1	Ca_Kabuli_Chr04	31992690	GG	AA	AA	INTERGENIC		
SNP_27406_A_31994223	NC_021163.1	Ca_Kabuli_Chr04	31994223	TT	GG	GG	INTERGENIC		
SNP_27408_A_31996621	NC_021163.1	Ca_Kabuli_Chr04	31996621	GG	AA	AA	INTERGENIC		
SNP_27409_A_31996622	NC_021163.1	Ca_Kabuli_Chr04	31996622	AA	GG	GG	INTERGENIC		
SNP_27410_A_31998044	NC_021163.1	Ca_Kabuli_Chr04	31998044	GG	AA	AA	INTERGENIC		
SNP_27411_A_31999557	NC_021163.1	Ca_Kabuli_Chr04	31999557	CC	GG	GG	INTERGENIC		
SNP_27412_A_31999785	NC_021163.1	Ca_Kabuli_Chr04	31999785	TT	CC	CC	INTERGENIC		
SNP_27413_A_32000189	NC_021163.1	Ca_Kabuli_Chr04	32000189	AA	GG	GG	INTERGENIC		
SNP_27414_A_32000214	NC_021163.1	Ca_Kabuli_Chr04	32000214	AA	GG	GG	INTERGENIC		
SNP_27415_A_32000217	NC_021163.1	Ca_Kabuli_Chr04	32000217	AA	TT	TT	INTERGENIC		
SNP_27416_A_32000308	NC_021163.1	Ca_Kabuli_Chr04	32000308	AA	CC	CC	INTERGENIC		
SNP_27417_A_32003308	NC_021163.1	Ca_Kabuli_Chr04	32003308	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27418_A_32004310	NC_021163.1	Ca_Kabuli_Chr04	32004310	GG	AA	AA	INTERGENIC			
SNP_27419_A_32006858	NC_021163.1	Ca_Kabuli_Chr04	32006858	CC	TT	TT	INTERGENIC			
SNP_27420_A_32008504	NC_021163.1	Ca_Kabuli_Chr04	32008504	CC	AA	AA	INTERGENIC			
SNP_27422_A_32008705	NC_021163.1	Ca_Kabuli_Chr04	32008705	TT	CC	CC	INTERGENIC			
SNP_27423_A_32008780	NC_021163.1	Ca_Kabuli_Chr04	32008780	AA	GG	GG	INTERGENIC			
SNP_27424_A_32008964	NC_021163.1	Ca_Kabuli_Chr04	32008964	GG	AA	AA	INTERGENIC			
SNP_27425_A_32011367	NC_021163.1	Ca_Kabuli_Chr04	32011367	TT	CC	CC	INTERGENIC			
SNP_27426_A_32012191	NC_021163.1	Ca_Kabuli_Chr04	32012191	CC	TT	TT	INTERGENIC			
SNP_27427_A_32012195	NC_021163.1	Ca_Kabuli_Chr04	32012195	GG	TT	TT	INTERGENIC			
SNP_27428_A_32013235	NC_021163.1	Ca_Kabuli_Chr04	32013235	CC	TT	TT	INTERGENIC			
SNP_27429_A_32013368	NC_021163.1	Ca_Kabuli_Chr04	32013368	TT	CC	CC	INTERGENIC			
SNP_27430_A_32013381	NC_021163.1	Ca_Kabuli_Chr04	32013381	AA	TT	TT	INTERGENIC			
SNP_27431_A_32013741	NC_021163.1	Ca_Kabuli_Chr04	32013741	TT	GG	GG	INTERGENIC			
SNP_27432_A_32014388	NC_021163.1	Ca_Kabuli_Chr04	32014388	TT	CC	CC	INTERGENIC			
SNP_27433_A_32014577	NC_021163.1	Ca_Kabuli_Chr04	32014577	CC	TT	TT	INTERGENIC			
SNP_27434_A_32014587	NC_021163.1	Ca_Kabuli_Chr04	32014587	TT	AA	AA	INTERGENIC			
SNP_27435_A_32014632	NC_021163.1	Ca_Kabuli_Chr04	32014632	TT	CC	CC	INTERGENIC			
SNP_27436_A_32014684	NC_021163.1	Ca_Kabuli_Chr04	32014684	GG	AA	AA	INTERGENIC			
SNP_27437_A_32014711	NC_021163.1	Ca_Kabuli_Chr04	32014711	GG	AA	AA	INTERGENIC			
SNP_27438_A_32014765	NC_021163.1	Ca_Kabuli_Chr04	32014765	AA	TT	TT	INTERGENIC			
SNP_27439_A_32014784	NC_021163.1	Ca_Kabuli_Chr04	32014784	AA	CC	CC	INTERGENIC			
SNP_27440_A_32016421	NC_021163.1	Ca_Kabuli_Chr04	32016421	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27441_A_32018084	NC_021163.1	Ca_Kabuli_Chr04	32018084	AA	GG	GG	INTERGENIC		
SNP_27442_A_32018089	NC_021163.1	Ca_Kabuli_Chr04	32018089	CC	AA	AA	INTERGENIC		
SNP_27443_A_32019098	NC_021163.1	Ca_Kabuli_Chr04	32019098	TT	AA	AA	INTERGENIC		
SNP_27444_A_32019150	NC_021163.1	Ca_Kabuli_Chr04	32019150	AA	TT	TT	INTERGENIC		
SNP_27445_A_32021521	NC_021163.1	Ca_Kabuli_Chr04	32021521	AA	GG	GG	INTERGENIC		
SNP_27446_A_32021523	NC_021163.1	Ca_Kabuli_Chr04	32021523	TT	CC	CC	INTERGENIC		
SNP_27447_A_32022630	NC_021163.1	Ca_Kabuli_Chr04	32022630	TT	CC	CC	INTERGENIC		
SNP_27448_A_32031912	NC_021163.1	Ca_Kabuli_Chr04	32031912	CC	TT	TT	INTERGENIC		
SNP_27449_A_32032014	NC_021163.1	Ca_Kabuli_Chr04	32032014	TT	CC	CC	INTERGENIC		
SNP_27450_A_32032074	NC_021163.1	Ca_Kabuli_Chr04	32032074	GG	AA	AA	INTERGENIC		
SNP_27451_A_32035991	NC_021163.1	Ca_Kabuli_Chr04	32035991	GG	AA	AA	INTERGENIC		
SNP_27452_A_32036317	NC_021163.1	Ca_Kabuli_Chr04	32036317	CC	TT	TT	INTERGENIC		
SNP_27453_A_32038974	NC_021163.1	Ca_Kabuli_Chr04	32038974	TT	CC	CC	DRR	101499062	uncharacterized LOC101499062
SNP_27454_A_32039018	NC_021163.1	Ca_Kabuli_Chr04	32039018	AA	TT	TT	DRR	101499062	uncharacterized LOC101499062
SNP_27455_A_32041276	NC_021163.1	Ca_Kabuli_Chr04	32041276	CC	TT	TT	INTRON	101499062	uncharacterized LOC101499062
SNP_27456_A_32041317	NC_021163.1	Ca_Kabuli_Chr04	32041317	CC	TT	TT	INTRON	101499062	uncharacterized LOC101499062
SNP_27457_A_32045288	NC_021163.1	Ca_Kabuli_Chr04	32045288	CC	TT	TT	SYNONYMOUS_CODING	101499062	uncharacterized LOC101499062
SNP_27458_A_32045642	NC_021163.1	Ca_Kabuli_Chr04	32045642	AA	GG	GG	DRR	101499062	uncharacterized LOC101499062
SNP_27459_A_32045654	NC_021163.1	Ca_Kabuli_Chr04	32045654	TT	AA	AA	DRR	101499062	uncharacterized LOC101499062
SNP_27460_A_32045684	NC_021163.1	Ca_Kabuli_Chr04	32045684	AA	TT	TT	DRR	101499062	uncharacterized LOC101499062
SNP_27462_A_32047164	NC_021163.1	Ca_Kabuli_Chr04	32047164	TT	GG	GG	URR	101499062	uncharacterized LOC101499062
SNP_27464_A_32047797	NC_021163.1	Ca_Kabuli_Chr04	32047797	TT	CC	CC	URR	101499062	uncharacterized LOC101499062

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27468_A_32047967	NC_021163.1	Ca_Kabuli_Chr04	32047967	AA	GG	GG	INTERGENIC			
SNP_27467_A_32049681	NC_021163.1	Ca_Kabuli_Chr04	32049681	GG	CC	CC	INTERGENIC			
SNP_27468_A_32051612	NC_021163.1	Ca_Kabuli_Chr04	32051612	TT	CC	CC	INTERGENIC			
SNP_27469_A_32054553	NC_021163.1	Ca_Kabuli_Chr04	32054553	CC	AA	AA	INTERGENIC			
SNP_27470_A_32055251	NC_021163.1	Ca_Kabuli_Chr04	32055251	AA	CC	CC	INTERGENIC			
SNP_27471_A_32055252	NC_021163.1	Ca_Kabuli_Chr04	32055252	GG	AA	AA	INTERGENIC			
SNP_27472_A_32055262	NC_021163.1	Ca_Kabuli_Chr04	32055262	AA	GG	GG	INTERGENIC			
SNP_27473_A_32055406	NC_021163.1	Ca_Kabuli_Chr04	32055406	GG	TT	TT	INTERGENIC			
SNP_27474_A_32055541	NC_021163.1	Ca_Kabuli_Chr04	32055541	TT	AA	AA	INTERGENIC			
SNP_27475_A_32055891	NC_021163.1	Ca_Kabuli_Chr04	32055891	AA	GG	GG	INTERGENIC			
SNP_27476_A_32057534	NC_021163.1	Ca_Kabuli_Chr04	32057534	TT	AA	AA	INTERGENIC			
SNP_27477_A_32061555	NC_021163.1	Ca_Kabuli_Chr04	32061555	GG	AA	AA	INTRON	101499374		stem-specific protein TSJT1-like
SNP_27478_A_32067594	NC_021163.1	Ca_Kabuli_Chr04	32067594	TT	CC	CC	DRR	101499682		ankyrin repeat-containing protein P16F5.05c-like
SNP_27479_A_32067596	NC_021163.1	Ca_Kabuli_Chr04	32067596	GG	AA	AA	DRR	101499682		ankyrin repeat-containing protein P16F5.05c-like
SNP_27481_A_32069414	NC_021163.1	Ca_Kabuli_Chr04	32069414	GG	CC	CC	DRR	101499682		ankyrin repeat-containing protein P16F5.05c-like
SNP_27482_A_32069431	NC_021163.1	Ca_Kabuli_Chr04	32069431	TT	CC	CC	DRR	101499682		ankyrin repeat-containing protein P16F5.05c-like
SNP_27483_A_32083185	NC_021163.1	Ca_Kabuli_Chr04	32083185	AA	GG	GG	URR	101513272		Unknown function
SNP_27484_A_32083299	NC_021163.1	Ca_Kabuli_Chr04	32083299	AA	GG	GG	URR	101513272		Unknown function
SNP_27485_A_32083302	NC_021163.1	Ca_Kabuli_Chr04	32083302	AA	TT	TT	URR	101513272		Unknown function
SNP_27486_A_32083354	NC_021163.1	Ca_Kabuli_Chr04	32083354	GG	AA	AA	URR	101513272		Unknown function
SNP_27487_A_32083372	NC_021163.1	Ca_Kabuli_Chr04	32083372	GG	AA	AA	URR	101513272		Unknown function
SNP_27488_A_32083421	NC_021163.1	Ca_Kabuli_Chr04	32083421	AA	GG	GG	URR	101513272		Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27489_A_32083491	NC_021163.1	Ca_Kabuli_Chr04	32083491	AA	GG	GG	URR	101513272	Unknown function
SNP_27490_A_32083500	NC_021163.1	Ca_Kabuli_Chr04	32083500	GG	AA	AA	URR	101513272	Unknown function
SNP_27491_A_32083760	NC_021163.1	Ca_Kabuli_Chr04	32083760	AA	GG	GG	URR	101513272	Unknown function
SNP_27492_A_32083774	NC_021163.1	Ca_Kabuli_Chr04	32083774	TT	CC	CC	URR	101513272	Unknown function
SNP_27493_A_32101235	NC_021163.1	Ca_Kabuli_Chr04	32101235	TT	AA	AA	INTERGENIC		
SNP_27495_A_32101949	NC_021163.1	Ca_Kabuli_Chr04	32101949	AA	CC	CC	INTERGENIC		
SNP_27496_A_32101951	NC_021163.1	Ca_Kabuli_Chr04	32101951	AA	GG	GG	INTERGENIC		
SNP_27497_A_32101984	NC_021163.1	Ca_Kabuli_Chr04	32101984	GG	AA	AA	INTERGENIC		
SNP_27498_A_32102895	NC_021163.1	Ca_Kabuli_Chr04	32102895	AA	GG	GG	INTERGENIC		
SNP_27499_A_32103440	NC_021163.1	Ca_Kabuli_Chr04	32103440	GG	AA	AA	INTERGENIC		
SNP_27500_A_32103458	NC_021163.1	Ca_Kabuli_Chr04	32103458	AA	GG	GG	INTERGENIC		
SNP_27501_A_32103464	NC_021163.1	Ca_Kabuli_Chr04	32103464	GG	AA	AA	INTERGENIC		
SNP_27502_A_32104328	NC_021163.1	Ca_Kabuli_Chr04	32104328	GG	TT	TT	INTERGENIC		
SNP_27503_A_32104882	NC_021163.1	Ca_Kabuli_Chr04	32104882	GG	TT	TT	INTERGENIC		
SNP_27504_A_32105279	NC_021163.1	Ca_Kabuli_Chr04	32105279	CC	TT	TT	INTERGENIC		
SNP_27505_A_32112198	NC_021163.1	Ca_Kabuli_Chr04	32112198	GG	AA	AA	INTERGENIC		
SNP_27506_A_32112369	NC_021163.1	Ca_Kabuli_Chr04	32112369	CC	AA	AA	INTERGENIC		
SNP_27507_A_32116248	NC_021163.1	Ca_Kabuli_Chr04	32116248	AA	TT	TT	INTERGENIC		
SNP_27508_A_32116554	NC_021163.1	Ca_Kabuli_Chr04	32116554	AA	GG	GG	INTERGENIC		
SNP_27509_A_32116580	NC_021163.1	Ca_Kabuli_Chr04	32116580	CC	AA	AA	INTERGENIC		
SNP_27510_A_32117153	NC_021163.1	Ca_Kabuli_Chr04	32117153	TT	CC	CC	INTERGENIC		
SNP_27511_A_32117155	NC_021163.1	Ca_Kabuli_Chr04	32117155	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27516_A_32122399	NC_021163.1	Ca_Kabuli_Chr04	32122399	CC	TT	TT	INTERGENIC		
SNP_27517_A_32123141	NC_021163.1	Ca_Kabuli_Chr04	32123141	TT	CC	CC	INTERGENIC		
SNP_27518_A_32123143	NC_021163.1	Ca_Kabuli_Chr04	32123143	GG	TT	TT	INTERGENIC		
SNP_27519_A_32123169	NC_021163.1	Ca_Kabuli_Chr04	32123169	GG	AA	AA	INTERGENIC		
SNP_27520_A_32123184	NC_021163.1	Ca_Kabuli_Chr04	32123184	GG	CC	CC	INTERGENIC		
SNP_27521_A_32124562	NC_021163.1	Ca_Kabuli_Chr04	32124562	GG	AA	AA	INTERGENIC		
SNP_27522_A_32124564	NC_021163.1	Ca_Kabuli_Chr04	32124564	GG	AA	AA	INTERGENIC		
SNP_27523_A_32124818	NC_021163.1	Ca_Kabuli_Chr04	32124818	TT	CC	CC	INTERGENIC		
SNP_27524_A_32125657	NC_021163.1	Ca_Kabuli_Chr04	32125657	AA	GG	GG	INTERGENIC		
SNP_27525_A_32125979	NC_021163.1	Ca_Kabuli_Chr04	32125979	TT	CC	CC	INTERGENIC		
SNP_27526_A_32138080	NC_021163.1	Ca_Kabuli_Chr04	32138080	CC	AA	AA	URR	101499992	protein argonaute 10-like
SNP_27527_A_32138124	NC_021163.1	Ca_Kabuli_Chr04	32138124	AA	TT	TT	URR	101499992	protein argonaute 10-like
SNP_27528_A_32139848	NC_021163.1	Ca_Kabuli_Chr04	32139848	AA	GG	GG	INTERGENIC		
SNP_27529_A_32140641	NC_021163.1	Ca_Kabuli_Chr04	32140641	TT	CC	CC	INTERGENIC		
SNP_27530_A_32140672	NC_021163.1	Ca_Kabuli_Chr04	32140672	AA	TT	TT	INTERGENIC		
SNP_27531_A_32140774	NC_021163.1	Ca_Kabuli_Chr04	32140774	TT	GG	GG	INTERGENIC		
SNP_27532_A_32140776	NC_021163.1	Ca_Kabuli_Chr04	32140776	GG	AA	AA	INTERGENIC		
SNP_27533_A_32140794	NC_021163.1	Ca_Kabuli_Chr04	32140794	GG	TT	TT	INTERGENIC		
SNP_27534_A_32141170	NC_021163.1	Ca_Kabuli_Chr04	32141170	AA	GG	GG	INTERGENIC		
SNP_27535_A_32141398	NC_021163.1	Ca_Kabuli_Chr04	32141398	GG	AA	AA	INTERGENIC		
SNP_27536_A_32141403	NC_021163.1	Ca_Kabuli_Chr04	32141403	AA	GG	GG	INTERGENIC		
SNP_27537_A_32141405	NC_021163.1	Ca_Kabuli_Chr04	32141405	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27538_A_32141411	NC_021163.1	Ca_Kabuli_Chr04	32141411	TT	GG	GG	INTERGENIC			
SNP_27539_A_32141447	NC_021163.1	Ca_Kabuli_Chr04	32141447	CC	TT	TT	INTERGENIC			
SNP_27540_A_32141472	NC_021163.1	Ca_Kabuli_Chr04	32141472	GG	AA	AA	INTERGENIC			
SNP_27541_A_32141475	NC_021163.1	Ca_Kabuli_Chr04	32141475	TT	GG	GG	INTERGENIC			
SNP_27542_A_32143721	NC_021163.1	Ca_Kabuli_Chr04	32143721	AA	GG	GG	INTERGENIC			
SNP_27544_A_32144052	NC_021163.1	Ca_Kabuli_Chr04	32144052	CC	AA	AA	INTERGENIC			
SNP_27545_A_32144075	NC_021163.1	Ca_Kabuli_Chr04	32144075	AA	GG	GG	INTERGENIC			
SNP_27546_A_32144338	NC_021163.1	Ca_Kabuli_Chr04	32144338	AA	GG	GG	INTERGENIC			
SNP_27547_A_32144364	NC_021163.1	Ca_Kabuli_Chr04	32144364	TT	CC	CC	INTERGENIC			
SNP_27549_A_32144423	NC_021163.1	Ca_Kabuli_Chr04	32144423	GG	AA	AA	INTERGENIC			
SNP_27550_A_32146975	NC_021163.1	Ca_Kabuli_Chr04	32146975	CC	TT	TT	INTERGENIC			
SNP_27551_A_32147443	NC_021163.1	Ca_Kabuli_Chr04	32147443	CC	GG	GG	INTERGENIC			
SNP_27552_A_32152340	NC_021163.1	Ca_Kabuli_Chr04	32152340	GG	TT	TT	INTERGENIC			
SNP_27553_A_32152529	NC_021163.1	Ca_Kabuli_Chr04	32152529	GG	AA	AA	INTERGENIC			
SNP_27554_A_32152533	NC_021163.1	Ca_Kabuli_Chr04	32152533	TT	CC	CC	INTERGENIC			
SNP_27555_A_32152534	NC_021163.1	Ca_Kabuli_Chr04	32152534	CC	TT	TT	INTERGENIC			
SNP_27556_A_32152546	NC_021163.1	Ca_Kabuli_Chr04	32152546	TT	AA	AA	INTERGENIC			
SNP_27557_A_32155158	NC_021163.1	Ca_Kabuli_Chr04	32155158	AA	GG	GG	INTERGENIC			
SNP_27558_A_32155700	NC_021163.1	Ca_Kabuli_Chr04	32155700	TT	CC	CC	INTERGENIC			
SNP_27559_A_32155716	NC_021163.1	Ca_Kabuli_Chr04	32155716	TT	AA	AA	INTERGENIC			
SNP_27560_A_32155865	NC_021163.1	Ca_Kabuli_Chr04	32155865	CC	TT	TT	INTERGENIC			
SNP_27561_A_32155907	NC_021163.1	Ca_Kabuli_Chr04	32155907	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27562_A_32156008	NC_021163.1	Ca_Kabuli_Chr04	32156008	TT	AA	AA	INTERGENIC		
SNP_27563_A_32156181	NC_021163.1	Ca_Kabuli_Chr04	32156181	AA	CC	CC	INTERGENIC		
SNP_27564_A_32156188	NC_021163.1	Ca_Kabuli_Chr04	32156188	TT	CC	CC	INTERGENIC		
SNP_27565_A_32156214	NC_021163.1	Ca_Kabuli_Chr04	32156214	CC	GG	GG	INTERGENIC		
SNP_27566_A_32156217	NC_021163.1	Ca_Kabuli_Chr04	32156217	CC	TT	TT	INTERGENIC		
SNP_27567_A_32156220	NC_021163.1	Ca_Kabuli_Chr04	32156220	CC	TT	TT	INTERGENIC		
SNP_27568_A_32156485	NC_021163.1	Ca_Kabuli_Chr04	32156485	AA	GG	GG	INTERGENIC		
SNP_27569_A_32156489	NC_021163.1	Ca_Kabuli_Chr04	32156489	GG	AA	AA	INTERGENIC		
SNP_27573_A_32166266	NC_021163.1	Ca_Kabuli_Chr04	32166266	TT	CC	CC	INTERGENIC		
SNP_27574_A_32167684	NC_021163.1	Ca_Kabuli_Chr04	32167684	AA	GG	GG	INTERGENIC		
SNP_27575_A_32168126	NC_021163.1	Ca_Kabuli_Chr04	32168126	AA	GG	GG	INTERGENIC		
SNP_27576_A_32168136	NC_021163.1	Ca_Kabuli_Chr04	32168136	CC	AA	AA	INTERGENIC		
SNP_27577_A_32173684	NC_021163.1	Ca_Kabuli_Chr04	32173684	TT	GG	GG	INTRON	101500333	50S ribosomal protein L28, chloroplastic
SNP_27579_A_32173942	NC_021163.1	Ca_Kabuli_Chr04	32173942	AA	TT	TT	INTRON	101500333	50S ribosomal protein L28, chloroplastic
SNP_27580_A_32176926	NC_021163.1	Ca_Kabuli_Chr04	32176926	GG	AA	AA	INTERGENIC		
SNP_27583_A_32180255	NC_021163.1	Ca_Kabuli_Chr04	32180255	GG	AA	AA	INTERGENIC		
SNP_27584_A_32180397	NC_021163.1	Ca_Kabuli_Chr04	32180397	AA	GG	GG	INTERGENIC		
SNP_27585_A_32180412	NC_021163.1	Ca_Kabuli_Chr04	32180412	TT	CC	CC	INTERGENIC		
SNP_27587_A_32182796	NC_021163.1	Ca_Kabuli_Chr04	32182796	AA	TT	TT	DRR	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27588_A_32183493	NC_021163.1	Ca_Kabuli_Chr04	32183493	GG	AA	AA	NON_SYNONYMOUS_CODING	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27589_A_32183968	NC_021163.1	Ca_Kabuli_Chr04	32183968	GG	AA	AA	SYNONYMOUS_CODING	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27590_A_32186520	NC_021163.1	Ca_Kabuli_Chr04	32186520	CC	TT	TT	URR	101500648	pentatricopeptide repeat-containing protein At4g21300-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27591_A_32186823	NC_021163.1	Ca_Kabuli_Chr04	32186823	CC		GG	GG	URR	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27592_A_32187180	NC_021163.1	Ca_Kabuli_Chr04	32187180	CC		AA	AA	URR	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27593_A_32187181	NC_021163.1	Ca_Kabuli_Chr04	32187181	CC		TT	TT	URR	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27594_A_32187185	NC_021163.1	Ca_Kabuli_Chr04	32187185	AA		TT	TT	URR	101500648	pentatricopeptide repeat-containing protein At4g21300-like
SNP_27595_A_32189188	NC_021163.1	Ca_Kabuli_Chr04	32189188	AA		CC	CC	INTERGENIC		
SNP_27596_A_32189226	NC_021163.1	Ca_Kabuli_Chr04	32189226	GG		TT	TT	INTERGENIC		
SNP_27597_A_32189253	NC_021163.1	Ca_Kabuli_Chr04	32189253	GG		AA	AA	INTERGENIC		
SNP_27598_A_32209659	NC_021163.1	Ca_Kabuli_Chr04	32209659	GG		AA	AA	DRR	101514583	Unknown function
SNP_27599_A_32209725	NC_021163.1	Ca_Kabuli_Chr04	32209725	AA		GG	GG	DRR	101514583	Unknown function
SNP_27600_A_32210075	NC_021163.1	Ca_Kabuli_Chr04	32210075	GG		AA	AA	DRR	101514583	Unknown function
SNP_27602_A_32212899	NC_021163.1	Ca_Kabuli_Chr04	32212899	GG		AA	AA	URR	101514583	Unknown function
SNP_27603_A_32213153	NC_021163.1	Ca_Kabuli_Chr04	32213153	CC		TT	TT	URR	101514583	Unknown function
SNP_27604_A_32213502	NC_021163.1	Ca_Kabuli_Chr04	32213502	AA		GG	GG	DRR	101501496	calmodulin-like protein 11
SNP_27606_A_32215070	NC_021163.1	Ca_Kabuli_Chr04	32215070	AA		CC	CC	INTERGENIC		
SNP_27607_A_32215071	NC_021163.1	Ca_Kabuli_Chr04	32215071	TT		GG	GG	INTERGENIC		
SNP_27608_A_32215072	NC_021163.1	Ca_Kabuli_Chr04	32215072	GG		AA	AA	INTERGENIC		
SNP_27610_A_32215685	NC_021163.1	Ca_Kabuli_Chr04	32215685	TT		AA	AA	INTERGENIC		
SNP_27611_A_32215717	NC_021163.1	Ca_Kabuli_Chr04	32215717	TT		AA	AA	INTERGENIC		
SNP_27612_A_32215733	NC_021163.1	Ca_Kabuli_Chr04	32215733	TT		GG	GG	INTERGENIC		
SNP_27613_A_32216641	NC_021163.1	Ca_Kabuli_Chr04	32216641	AA		GG	GG	URR	101501496	calmodulin-like protein 11
SNP_27614_A_32216929	NC_021163.1	Ca_Kabuli_Chr04	32216929	GG		AA	AA	URR	101501496	calmodulin-like protein 11
SNP_27615_A_32216987	NC_021163.1	Ca_Kabuli_Chr04	32216987	GG		AA	AA	URR	101501496	calmodulin-like protein 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27616_A_32217864	NC_021163.1	Ca_Kabuli_Chr04	32217864	CC	TT	TT	URR	101501496	calmodulin-like protein 11
SNP_27618_A_32222851	NC_021163.1	Ca_Kabuli_Chr04	32222851	TT	AA	AA	INTERGENIC		
SNP_27620_A_32222931	NC_021163.1	Ca_Kabuli_Chr04	32222931	TT	AA	AA	INTERGENIC		
SNP_27621_A_32222933	NC_021163.1	Ca_Kabuli_Chr04	32222933	GG	AA	AA	INTERGENIC		
SNP_27622_A_32222949	NC_021163.1	Ca_Kabuli_Chr04	32222949	GG	TT	TT	INTERGENIC		
SNP_27623_A_32222989	NC_021163.1	Ca_Kabuli_Chr04	32222989	AA	GG	GG	INTERGENIC		
SNP_27624_A_32223029	NC_021163.1	Ca_Kabuli_Chr04	32223029	GG	AA	AA	INTERGENIC		
SNP_27625_A_32223066	NC_021163.1	Ca_Kabuli_Chr04	32223066	TT	CC	CC	INTERGENIC		
SNP_27626_A_32223074	NC_021163.1	Ca_Kabuli_Chr04	32223074	TT	GG	GG	INTERGENIC		
SNP_27627_A_32223105	NC_021163.1	Ca_Kabuli_Chr04	32223105	TT	AA	AA	INTERGENIC		
SNP_27628_A_32223153	NC_021163.1	Ca_Kabuli_Chr04	32223153	AA	GG	GG	INTERGENIC		
SNP_27629_A_32223199	NC_021163.1	Ca_Kabuli_Chr04	32223199	GG	TT	TT	INTERGENIC		
SNP_27630_A_32223214	NC_021163.1	Ca_Kabuli_Chr04	32223214	GG	AA	AA	INTERGENIC		
SNP_27631_A_32223228	NC_021163.1	Ca_Kabuli_Chr04	32223228	GG	TT	TT	INTERGENIC		
SNP_27632_A_32223258	NC_021163.1	Ca_Kabuli_Chr04	32223258	TT	GG	GG	INTERGENIC		
SNP_27633_A_32223292	NC_021163.1	Ca_Kabuli_Chr04	32223292	GG	AA	AA	INTERGENIC		
SNP_27634_A_32223320	NC_021163.1	Ca_Kabuli_Chr04	32223320	CC	TT	TT	INTERGENIC		
SNP_27635_A_32223430	NC_021163.1	Ca_Kabuli_Chr04	32223430	CC	AA	AA	INTERGENIC		
SNP_27636_A_32223464	NC_021163.1	Ca_Kabuli_Chr04	32223464	GG	TT	TT	INTERGENIC		
SNP_27637_A_32223510	NC_021163.1	Ca_Kabuli_Chr04	32223510	GG	AA	AA	INTERGENIC		
SNP_27638_A_32223522	NC_021163.1	Ca_Kabuli_Chr04	32223522	TT	GG	GG	INTERGENIC		
SNP_27639_A_32223592	NC_021163.1	Ca_Kabuli_Chr04	32223592	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27640_A_32224942	NC_021163.1	Ca_Kabuli_Chr04	32224942	CC	TT	TT	INTERGENIC			
SNP_27641_A_32225081	NC_021163.1	Ca_Kabuli_Chr04	32225081	AA	GG	GG	INTERGENIC			
SNP_27642_A_32225100	NC_021163.1	Ca_Kabuli_Chr04	32225100	TT	AA	AA	INTERGENIC			
SNP_27643_A_32225231	NC_021163.1	Ca_Kabuli_Chr04	32225231	AA	GG	GG	INTERGENIC			
SNP_27644_A_32225649	NC_021163.1	Ca_Kabuli_Chr04	32225649	TT	CC	CC	INTERGENIC			
SNP_27645_A_32225850	NC_021163.1	Ca_Kabuli_Chr04	32225850	TT	CC	CC	INTERGENIC			
SNP_27647_A_32225894	NC_021163.1	Ca_Kabuli_Chr04	32225894	AA	GG	GG	INTERGENIC			
SNP_27648_A_32226218	NC_021163.1	Ca_Kabuli_Chr04	32226218	TT	AA	AA	INTERGENIC			
SNP_27650_A_32236466	NC_021163.1	Ca_Kabuli_Chr04	32236466	AA	CC	CC	INTERGENIC			
SNP_27651_A_32236498	NC_021163.1	Ca_Kabuli_Chr04	32236498	TT	CC	CC	INTERGENIC			
SNP_27652_A_32239917	NC_021163.1	Ca_Kabuli_Chr04	32239917	AA	TT	TT	INTERGENIC			
SNP_27654_A_32239935	NC_021163.1	Ca_Kabuli_Chr04	32239935	TT	AA	AA	INTERGENIC			
SNP_27655_A_32240176	NC_021163.1	Ca_Kabuli_Chr04	32240176	GG	AA	AA	INTERGENIC			
SNP_27656_A_32240221	NC_021163.1	Ca_Kabuli_Chr04	32240221	CC	TT	TT	INTERGENIC			
SNP_27657_A_32240242	NC_021163.1	Ca_Kabuli_Chr04	32240242	CC	TT	TT	INTERGENIC			
SNP_27658_A_32240284	NC_021163.1	Ca_Kabuli_Chr04	32240284	GG	AA	AA	INTERGENIC			
SNP_27659_A_32241804	NC_021163.1	Ca_Kabuli_Chr04	32241804	AA	GG	GG	INTERGENIC			
SNP_27660_A_32241812	NC_021163.1	Ca_Kabuli_Chr04	32241812	GG	AA	AA	INTERGENIC			
SNP_27661_A_32243858	NC_021163.1	Ca_Kabuli_Chr04	32243858	TT	CC	CC	INTERGENIC			
SNP_27662_A_32243892	NC_021163.1	Ca_Kabuli_Chr04	32243892	TT	CC	CC	INTERGENIC			
SNP_27663_A_32255413	NC_021163.1	Ca_Kabuli_Chr04	32255413	AA	GG	GG	INTERGENIC			
SNP_27664_A_32255456	NC_021163.1	Ca_Kabuli_Chr04	32255456	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27665_A_32255481	NC_021163.1	Ca_Kabuli_Chr04	32255481	GG	AA	AA	INTERGENIC			
SNP_27666_A_32255779	NC_021163.1	Ca_Kabuli_Chr04	32255779	AA	GG	GG	INTERGENIC			
SNP_27667_A_32255795	NC_021163.1	Ca_Kabuli_Chr04	32255795	GG	AA	AA	INTERGENIC			
SNP_27668_A_32256410	NC_021163.1	Ca_Kabuli_Chr04	32256410	TT	AA	AA	INTERGENIC			
SNP_27669_A_32257438	NC_021163.1	Ca_Kabuli_Chr04	32257438	TT	CC	CC	INTERGENIC			
SNP_27670_A_32262884	NC_021163.1	Ca_Kabuli_Chr04	32262884	GG	AA	AA	INTERGENIC			
SNP_27672_A_32263815	NC_021163.1	Ca_Kabuli_Chr04	32263815	TT	CC	CC	INTERGENIC			
SNP_27673_A_32264129	NC_021163.1	Ca_Kabuli_Chr04	32264129	CC	TT	TT	INTERGENIC			
SNP_27674_A_32264588	NC_021163.1	Ca_Kabuli_Chr04	32264588	GG	AA	AA	INTERGENIC			
SNP_27677_A_32266662	NC_021163.1	Ca_Kabuli_Chr04	32266662	CC	TT	TT	INTERGENIC			
SNP_27678_A_32296442	NC_021163.1	Ca_Kabuli_Chr04	32296442	AA	TT	TT	INTRON	101515556		uncharacterized LOC101515556
SNP_27679_A_32300356	NC_021163.1	Ca_Kabuli_Chr04	32300356	GG	AA	AA	URR	101488310		cell division cycle 20.5, cofactor of APC complex-like
SNP_27680_A_32300636	NC_021163.1	Ca_Kabuli_Chr04	32300636	TT	CC	CC	URR	101488310		cell division cycle 20.5, cofactor of APC complex-like
SNP_27681_A_32301279	NC_021163.1	Ca_Kabuli_Chr04	32301279	CC	GG	GG	URR	101488310		cell division cycle 20.5, cofactor of APC complex-like
SNP_27684_A_32302228	NC_021163.1	Ca_Kabuli_Chr04	32302228	AA	GG	GG	DRR	101488633		superoxide dismutase [Fe] 2, chloroplastic-like
SNP_27685_A_32302748	NC_021163.1	Ca_Kabuli_Chr04	32302748	AA	GG	GG	INTERGENIC			
SNP_27686_A_32302791	NC_021163.1	Ca_Kabuli_Chr04	32302791	GG	AA	AA	INTERGENIC			
SNP_27687_A_32315405	NC_021163.1	Ca_Kabuli_Chr04	32315405	AA	GG	GG	URR	101488633		superoxide dismutase [Fe] 2, chloroplastic-like
SNP_27688_A_32315727	NC_021163.1	Ca_Kabuli_Chr04	32315727	AA	CC	CC	URR	101488633		superoxide dismutase [Fe] 2, chloroplastic-like
SNP_27689_A_32321615	NC_021163.1	Ca_Kabuli_Chr04	32321615	GG	TT	TT	INTERGENIC			
SNP_27690_A_32321674	NC_021163.1	Ca_Kabuli_Chr04	32321674	GG	AA	AA	INTERGENIC			
SNP_27691_A_32335153	NC_021163.1	Ca_Kabuli_Chr04	32335153	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27692_A_32335160	NC_021163.1	Ca_Kabuli_Chr04	32335160	CC	TT	TT	INTERGENIC			
SNP_27694_A_32335220	NC_021163.1	Ca_Kabuli_Chr04	32335220	TT	AA	AA	INTERGENIC			
SNP_27695_A_32335401	NC_021163.1	Ca_Kabuli_Chr04	32335401	CC	TT	TT	INTERGENIC			
SNP_27696_A_32335461	NC_021163.1	Ca_Kabuli_Chr04	32335461	TT	CC	CC	INTERGENIC			
SNP_27697_A_32335699	NC_021163.1	Ca_Kabuli_Chr04	32335699	TT	CC	CC	INTERGENIC			
SNP_27698_A_32335720	NC_021163.1	Ca_Kabuli_Chr04	32335720	CC	TT	TT	INTERGENIC			
SNP_27699_A_32335742	NC_021163.1	Ca_Kabuli_Chr04	32335742	TT	GG	GG	INTERGENIC			
SNP_27700_A_32339316	NC_021163.1	Ca_Kabuli_Chr04	32339316	AA	GG	GG	INTERGENIC			
SNP_27701_A_32345169	NC_021163.1	Ca_Kabuli_Chr04	32345169	GG	CC	CC	INTERGENIC			
SNP_27702_A_32345176	NC_021163.1	Ca_Kabuli_Chr04	32345176	GG	TT	TT	INTERGENIC			
SNP_27703_A_32345177	NC_021163.1	Ca_Kabuli_Chr04	32345177	AA	CC	CC	INTERGENIC			
SNP_27704_A_32352874	NC_021163.1	Ca_Kabuli_Chr04	32352874	CC	TT	TT	INTERGENIC			
SNP_27705_A_32352877	NC_021163.1	Ca_Kabuli_Chr04	32352877	TT	CC	CC	INTERGENIC			
SNP_27706_A_32355632	NC_021163.1	Ca_Kabuli_Chr04	32355632	TT	CC	CC	INTERGENIC			
SNP_27707_A_32355640	NC_021163.1	Ca_Kabuli_Chr04	32355640	TT	CC	CC	INTERGENIC			
SNP_27708_A_32355642	NC_021163.1	Ca_Kabuli_Chr04	32355642	GG	AA	AA	INTERGENIC			
SNP_27709_A_32355655	NC_021163.1	Ca_Kabuli_Chr04	32355655	GG	CC	CC	INTERGENIC			
SNP_27710_A_32363943	NC_021163.1	Ca_Kabuli_Chr04	32363943	GG	AA	AA	INTERGENIC			
SNP_27711_A_32365010	NC_021163.1	Ca_Kabuli_Chr04	32365010	TT	CC	CC	INTERGENIC			
SNP_27714_A_32369639	NC_021163.1	Ca_Kabuli_Chr04	32369639	TT	AA	AA	INTERGENIC			
SNP_27715_A_32370746	NC_021163.1	Ca_Kabuli_Chr04	32370746	AA	CC	CC	INTERGENIC			
SNP_27716_A_32371309	NC_021163.1	Ca_Kabuli_Chr04	32371309	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27717_A_32373772	NC_021163.1	Ca_Kabuli_Chr04	32373772	AA	TT	TT	INTERGENIC			
SNP_27718_A_32373773	NC_021163.1	Ca_Kabuli_Chr04	32373773	AA	TT	TT	INTERGENIC			
SNP_27719_A_32373774	NC_021163.1	Ca_Kabuli_Chr04	32373774	AA	TT	TT	INTERGENIC			
SNP_27720_A_32374242	NC_021163.1	Ca_Kabuli_Chr04	32374242	TT	CC	CC	INTERGENIC			
SNP_27721_A_32374500	NC_021163.1	Ca_Kabuli_Chr04	32374500	TT	CC	CC	INTERGENIC			
SNP_27722_A_32376355	NC_021163.1	Ca_Kabuli_Chr04	32376355	CC	TT	TT	INTERGENIC			
SNP_27723_A_32376357	NC_021163.1	Ca_Kabuli_Chr04	32376357	GG	TT	TT	INTERGENIC			
SNP_27724_A_32377997	NC_021163.1	Ca_Kabuli_Chr04	32377997	TT	CC	CC	INTERGENIC			
SNP_27725_A_32380863	NC_021163.1	Ca_Kabuli_Chr04	32380863	CC	TT	TT	INTERGENIC			
SNP_27726_A_32381535	NC_021163.1	Ca_Kabuli_Chr04	32381535	TT	CC	CC	INTERGENIC			
SNP_27727_A_32381537	NC_021163.1	Ca_Kabuli_Chr04	32381537	AA	GG	GG	INTERGENIC			
SNP_27728_A_32381574	NC_021163.1	Ca_Kabuli_Chr04	32381574	TT	CC	CC	INTERGENIC			
SNP_27729_A_32381903	NC_021163.1	Ca_Kabuli_Chr04	32381903	TT	AA	AA	INTERGENIC			
SNP_27730_A_32381917	NC_021163.1	Ca_Kabuli_Chr04	32381917	TT	CC	CC	INTERGENIC			
SNP_27731_A_32387283	NC_021163.1	Ca_Kabuli_Chr04	32387283	GG	TT	TT	INTERGENIC			
SNP_27732_A_32387346	NC_021163.1	Ca_Kabuli_Chr04	32387346	AA	GG	GG	INTERGENIC			
SNP_27733_A_32392237	NC_021163.1	Ca_Kabuli_Chr04	32392237	CC	TT	TT	URR	101505674	uncharacterized LOC101505674	
SNP_27736_A_32396863	NC_021163.1	Ca_Kabuli_Chr04	32396863	GG	AA	AA	INTERGENIC			
SNP_27737_A_32397745	NC_021163.1	Ca_Kabuli_Chr04	32397745	TT	AA	AA	INTERGENIC			
SNP_27738_A_32397791	NC_021163.1	Ca_Kabuli_Chr04	32397791	CC	TT	TT	INTERGENIC			
SNP_27739_A_32397804	NC_021163.1	Ca_Kabuli_Chr04	32397804	GG	AA	AA	INTERGENIC			
SNP_27740_A_32397823	NC_021163.1	Ca_Kabuli_Chr04	32397823	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27741_A_32397844	NC_021163.1	Ca_Kabuli_Chr04	32397844	CC	TT	TT	INTERGENIC			
SNP_27742_A_32397975	NC_021163.1	Ca_Kabuli_Chr04	32397975	CC	TT	TT	INTERGENIC			
SNP_27743_A_32398075	NC_021163.1	Ca_Kabuli_Chr04	32398075	TT	CC	CC	INTERGENIC			
SNP_27744_A_32398089	NC_021163.1	Ca_Kabuli_Chr04	32398089	AA	GG	GG	INTERGENIC			
SNP_27745_A_32404197	NC_021163.1	Ca_Kabuli_Chr04	32404197	TT	CC	CC	INTERGENIC			
SNP_27746_A_32404258	NC_021163.1	Ca_Kabuli_Chr04	32404258	TT	AA	AA	INTERGENIC			
SNP_27747_A_32404268	NC_021163.1	Ca_Kabuli_Chr04	32404268	CC	TT	TT	INTERGENIC			
SNP_27748_A_32404276	NC_021163.1	Ca_Kabuli_Chr04	32404276	AA	GG	GG	INTERGENIC			
SNP_27749_A_32404326	NC_021163.1	Ca_Kabuli_Chr04	32404326	TT	CC	CC	INTERGENIC			
SNP_27750_A_32404559	NC_021163.1	Ca_Kabuli_Chr04	32404559	TT	CC	CC	INTERGENIC			
SNP_27751_A_32404571	NC_021163.1	Ca_Kabuli_Chr04	32404571	TT	CC	CC	INTERGENIC			
SNP_27753_A_32411746	NC_021163.1	Ca_Kabuli_Chr04	32411746	GG	AA	AA	INTERGENIC			
SNP_27754_A_32413091	NC_021163.1	Ca_Kabuli_Chr04	32413091	AA	CC	CC	INTERGENIC			
SNP_27755_A_32413107	NC_021163.1	Ca_Kabuli_Chr04	32413107	GG	TT	TT	INTERGENIC			
SNP_27756_A_32413910	NC_021163.1	Ca_Kabuli_Chr04	32413910	AA	TT	TT	INTERGENIC			
SNP_27757_A_32414840	NC_021163.1	Ca_Kabuli_Chr04	32414840	CC	GG	GG	INTERGENIC			
SNP_27758_A_32415652	NC_021163.1	Ca_Kabuli_Chr04	32415652	AA	TT	TT	INTERGENIC			
SNP_27759_A_32416917	NC_021163.1	Ca_Kabuli_Chr04	32416917	TT	CC	CC	INTERGENIC			
SNP_27761_A_32432124	NC_021163.1	Ca_Kabuli_Chr04	32432124	GG	AA	AA	URR	101505343	armadillo repeat-containing protein LFR	
SNP_27762_A_32432148	NC_021163.1	Ca_Kabuli_Chr04	32432148	TT	CC	CC	INTERGENIC			
SNP_27763_A_32432422	NC_021163.1	Ca_Kabuli_Chr04	32432422	AA	GG	GG	INTERGENIC			
SNP_27764_A_32432693	NC_021163.1	Ca_Kabuli_Chr04	32432693	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27765_A_32432703	NC_021163.1	Ca_Kabuli_Chr04	32432703	AA	CC	CC	INTERGENIC		
SNP_27766_A_32432736	NC_021163.1	Ca_Kabuli_Chr04	32432736	TT	CC	CC	INTERGENIC		
SNP_27767_A_32432762	NC_021163.1	Ca_Kabuli_Chr04	32432762	GG	AA	AA	INTERGENIC		
SNP_27768_A_32450719	NC_021163.1	Ca_Kabuli_Chr04	32450719	TT	CC	CC	INTERGENIC		
SNP_27770_A_32463411	NC_021163.1	Ca_Kabuli_Chr04	32463411	TT	GG	GG	INTRON	101505022	3-ketoacyl-CoA synthase 11-like
SNP_27771_A_32466258	NC_021163.1	Ca_Kabuli_Chr04	32466258	AA	CC	CC	URR	101505022	3-ketoacyl-CoA synthase 11-like
SNP_27772_A_32466650	NC_021163.1	Ca_Kabuli_Chr04	32466650	CC	GG	GG	URR	101505022	3-ketoacyl-CoA synthase 11-like
SNP_27773_A_32466921	NC_021163.1	Ca_Kabuli_Chr04	32466921	CC	TT	TT	URR	101505022	3-ketoacyl-CoA synthase 11-like
SNP_27774_A_32471835	NC_021163.1	Ca_Kabuli_Chr04	32471835	GG	AA	AA	INTERGENIC		
SNP_27775_A_32472090	NC_021163.1	Ca_Kabuli_Chr04	32472090	GG	TT	TT	INTERGENIC		
SNP_27777_A_32480846	NC_021163.1	Ca_Kabuli_Chr04	32480846	CC	TT	TT	INTERGENIC		
SNP_27778_A_32482047	NC_021163.1	Ca_Kabuli_Chr04	32482047	GG	TT	TT	INTERGENIC		
SNP_27779_A_32482531	NC_021163.1	Ca_Kabuli_Chr04	32482531	CC	AA	AA	INTERGENIC		
SNP_27781_A_32483254	NC_021163.1	Ca_Kabuli_Chr04	32483254	CC	AA	AA	INTERGENIC		
SNP_27782_A_32483260	NC_021163.1	Ca_Kabuli_Chr04	32483260	AA	TT	TT	INTERGENIC		
SNP_27783_A_32483585	NC_021163.1	Ca_Kabuli_Chr04	32483585	CC	TT	TT	INTERGENIC		
SNP_27784_A_32484090	NC_021163.1	Ca_Kabuli_Chr04	32484090	CC	AA	AA	INTERGENIC		
SNP_27785_A_32484233	NC_021163.1	Ca_Kabuli_Chr04	32484233	TT	CC	CC	INTERGENIC		
SNP_27787_A_32484429	NC_021163.1	Ca_Kabuli_Chr04	32484429	AA	GG	GG	INTERGENIC		
SNP_27788_A_32485060	NC_021163.1	Ca_Kabuli_Chr04	32485060	AA	TT	TT	INTERGENIC		
SNP_27789_A_32487014	NC_021163.1	Ca_Kabuli_Chr04	32487014	TT	AA	AA	INTERGENIC		
SNP_27790_A_32488071	NC_021163.1	Ca_Kabuli_Chr04	32488071	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27791_A_32488083	NC_021163.1	Ca_Kabuli_Chr04	32488083	TT	GG	GG	INTERGENIC		
SNP_27793_A_32491434	NC_021163.1	Ca_Kabuli_Chr04	32491434	AA	GG	GG	INTERGENIC		
SNP_27794_A_32492464	NC_021163.1	Ca_Kabuli_Chr04	32492464	AA	GG	GG	INTERGENIC		
SNP_27796_A_32494521	NC_021163.1	Ca_Kabuli_Chr04	32494521	AA	CC	CC	INTERGENIC		
SNP_27799_A_32494741	NC_021163.1	Ca_Kabuli_Chr04	32494741	AA	TT	TT	INTERGENIC		
SNP_27800_A_32497256	NC_021163.1	Ca_Kabuli_Chr04	32497256	GG	AA	AA	INTERGENIC		
SNP_27801_A_32497288	NC_021163.1	Ca_Kabuli_Chr04	32497288	TT	CC	CC	INTERGENIC		
SNP_27802_A_32497567	NC_021163.1	Ca_Kabuli_Chr04	32497567	CC	TT	TT	INTERGENIC		
SNP_27803_A_32498617	NC_021163.1	Ca_Kabuli_Chr04	32498617	AA	CC	CC	INTERGENIC		
SNP_27804_A_32498636	NC_021163.1	Ca_Kabuli_Chr04	32498636	CC	TT	TT	INTERGENIC		
SNP_27806_A_32499032	NC_021163.1	Ca_Kabuli_Chr04	32499032	GG	TT	TT	INTERGENIC		
SNP_27807_A_32499843	NC_021163.1	Ca_Kabuli_Chr04	32499843	TT	GG	GG	INTERGENIC		
SNP_27808_A_32501968	NC_021163.1	Ca_Kabuli_Chr04	32501968	TT	CC	CC	INTERGENIC		
SNP_27809_A_32506522	NC_021163.1	Ca_Kabuli_Chr04	32506522	AA	GG	GG	INTERGENIC		
SNP_27810_A_32510977	NC_021163.1	Ca_Kabuli_Chr04	32510977	TT	CC	CC	INTERGENIC		
SNP_27812_A_32512478	NC_021163.1	Ca_Kabuli_Chr04	32512478	TT	GG	GG	INTERGENIC		
SNP_27813_A_32512558	NC_021163.1	Ca_Kabuli_Chr04	32512558	AA	GG	GG	INTERGENIC		
SNP_27814_A_32512670	NC_021163.1	Ca_Kabuli_Chr04	32512670	GG	TT	TT	INTERGENIC		
SNP_27815_A_32512857	NC_021163.1	Ca_Kabuli_Chr04	32512857	TT	CC	CC	INTERGENIC		
SNP_27817_A_32519120	NC_021163.1	Ca_Kabuli_Chr04	32519120	TT	GG	GG	DRR	101504697	uncharacterized LOC101504697
SNP_27819_A_32522537	NC_021163.1	Ca_Kabuli_Chr04	32522537	TT	GG	GG	URR	101504697	uncharacterized LOC101504697
SNP_27820_A_32522556	NC_021163.1	Ca_Kabuli_Chr04	32522556	CC	TT	TT	URR	101504697	uncharacterized LOC101504697

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27821_A_32525765	NC_021163.1	Ca_Kabuli_Chr04	32525765	TT	CC	CC	INTERGENIC		
SNP_27822_A_32526807	NC_021163.1	Ca_Kabuli_Chr04	32526807	TT	CC	CC	INTERGENIC		
SNP_27823_A_32526905	NC_021163.1	Ca_Kabuli_Chr04	32526905	CC	TT	TT	INTERGENIC		
SNP_27824_A_32526920	NC_021163.1	Ca_Kabuli_Chr04	32526920	GG	AA	AA	INTERGENIC		
SNP_27825_A_32527622	NC_021163.1	Ca_Kabuli_Chr04	32527622	CC	AA	AA	INTERGENIC		
SNP_27826_A_32527947	NC_021163.1	Ca_Kabuli_Chr04	32527947	CC	TT	TT	INTERGENIC		
SNP_27827_A_32528882	NC_021163.1	Ca_Kabuli_Chr04	32528882	CC	AA	AA	INTERGENIC		
SNP_27829_A_32529413	NC_021163.1	Ca_Kabuli_Chr04	32529413	TT	AA	AA	INTERGENIC		
SNP_27830_A_32529608	NC_021163.1	Ca_Kabuli_Chr04	32529608	TT	AA	AA	INTERGENIC		
SNP_27831_A_32529653	NC_021163.1	Ca_Kabuli_Chr04	32529653	CC	TT	TT	INTERGENIC		
SNP_27832_A_32530517	NC_021163.1	Ca_Kabuli_Chr04	32530517	GG	AA	AA	INTERGENIC		
SNP_27834_A_32531488	NC_021163.1	Ca_Kabuli_Chr04	32531488	GG	CC	CC	INTERGENIC		
SNP_27835_A_32531596	NC_021163.1	Ca_Kabuli_Chr04	32531596	GG	AA	AA	INTERGENIC		
SNP_27836_A_32533302	NC_021163.1	Ca_Kabuli_Chr04	32533302	TT	GG	GG	INTERGENIC		
SNP_27837_A_32540476	NC_021163.1	Ca_Kabuli_Chr04	32540476	GG	TT	TT	NON_SYNONYMOUS_CODING	101490601	Unknown function
SNP_27838_A_32540485	NC_021163.1	Ca_Kabuli_Chr04	32540485	CC	TT	TT	NON_SYNONYMOUS_CODING	101490601	Unknown function
SNP_27839_A_32544531	NC_021163.1	Ca_Kabuli_Chr04	32544531	AA	CC	CC	INTERGENIC		
SNP_27840_A_32548886	NC_021163.1	Ca_Kabuli_Chr04	32548886	CC	TT	TT	INTERGENIC		
SNP_27842_A_32549121	NC_021163.1	Ca_Kabuli_Chr04	32549121	TT	CC	CC	INTERGENIC		
SNP_27843_A_32549221	NC_021163.1	Ca_Kabuli_Chr04	32549221	AA	GG	GG	INTERGENIC		
SNP_27844_A_32549314	NC_021163.1	Ca_Kabuli_Chr04	32549314	AA	TT	TT	INTERGENIC		
SNP_27846_A_32550342	NC_021163.1	Ca_Kabuli_Chr04	32550342	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27848_A_32550405	NC_021163.1	Ca_Kabuli_Chr04	32550405	TT	CC	CC	INTERGENIC			
SNP_27849_A_32550418	NC_021163.1	Ca_Kabuli_Chr04	32550418	AA	GG	GG	INTERGENIC			
SNP_27850_A_32550486	NC_021163.1	Ca_Kabuli_Chr04	32550486	AA	GG	GG	INTERGENIC			
SNP_27851_A_32550488	NC_021163.1	Ca_Kabuli_Chr04	32550488	AA	GG	GG	INTERGENIC			
SNP_27852_A_32550517	NC_021163.1	Ca_Kabuli_Chr04	32550517	AA	GG	GG	INTERGENIC			
SNP_27853_A_32551343	NC_021163.1	Ca_Kabuli_Chr04	32551343	GG	AA	AA	INTERGENIC			
SNP_27854_A_32551390	NC_021163.1	Ca_Kabuli_Chr04	32551390	AA	GG	GG	INTERGENIC			
SNP_27855_A_32552292	NC_021163.1	Ca_Kabuli_Chr04	32552292	GG	TT	TT	INTERGENIC			
SNP_27856_A_32554164	NC_021163.1	Ca_Kabuli_Chr04	32554164	CC	TT	TT	INTERGENIC			
SNP_27858_A_32558071	NC_021163.1	Ca_Kabuli_Chr04	32558071	AA	GG	GG	INTERGENIC			
SNP_27859_A_32559005	NC_021163.1	Ca_Kabuli_Chr04	32559005	GG	AA	AA	INTERGENIC			
SNP_27860_A_32559032	NC_021163.1	Ca_Kabuli_Chr04	32559032	GG	AA	AA	INTERGENIC			
SNP_27862_A_32561953	NC_021163.1	Ca_Kabuli_Chr04	32561953	TT	CC	CC	INTERGENIC			
SNP_27863_A_32562148	NC_021163.1	Ca_Kabuli_Chr04	32562148	GG	AA	AA	INTERGENIC			
SNP_27865_A_32569008	NC_021163.1	Ca_Kabuli_Chr04	32569008	CC	GG	GG	INTERGENIC			
SNP_27866_A_32569383	NC_021163.1	Ca_Kabuli_Chr04	32569383	CC	TT	TT	INTERGENIC			
SNP_27867_A_32570115	NC_021163.1	Ca_Kabuli_Chr04	32570115	TT	AA	AA	INTERGENIC			
SNP_27868_A_32570501	NC_021163.1	Ca_Kabuli_Chr04	32570501	GG	AA	AA	INTERGENIC			
SNP_27869_A_32573819	NC_021163.1	Ca_Kabuli_Chr04	32573819	TT	CC	CC	INTERGENIC			
SNP_27870_A_32576268	NC_021163.1	Ca_Kabuli_Chr04	32576268	CC	AA	AA	INTERGENIC			
SNP_27871_A_32576520	NC_021163.1	Ca_Kabuli_Chr04	32576520	GG	TT	TT	INTERGENIC			
SNP_27872_A_32576546	NC_021163.1	Ca_Kabuli_Chr04	32576546	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_27873_A_32576558	NC_021163.1	Ca_Kabuli_Chr04	32576558	AA	CC	CC	INTERGENIC			
SNP_27874_A_32576581	NC_021163.1	Ca_Kabuli_Chr04	32576581	TT	CC	CC	INTERGENIC			
SNP_27875_A_32576622	NC_021163.1	Ca_Kabuli_Chr04	32576622	TT	AA	AA	INTERGENIC			
SNP_27876_A_32576638	NC_021163.1	Ca_Kabuli_Chr04	32576638	AA	GG	GG	INTERGENIC			
SNP_27877_A_32578950	NC_021163.1	Ca_Kabuli_Chr04	32578950	GG	TT	TT	INTERGENIC			
SNP_27878_A_32579244	NC_021163.1	Ca_Kabuli_Chr04	32579244	TT	CC	CC	INTERGENIC			
SNP_27879_A_32579253	NC_021163.1	Ca_Kabuli_Chr04	32579253	TT	CC	CC	INTERGENIC			
SNP_27880_A_32581366	NC_021163.1	Ca_Kabuli_Chr04	32581366	TT	GG	GG	INTERGENIC			
SNP_27881_A_32581371	NC_021163.1	Ca_Kabuli_Chr04	32581371	TT	CC	CC	INTERGENIC			
SNP_27882_A_32581393	NC_021163.1	Ca_Kabuli_Chr04	32581393	AA	GG	GG	INTERGENIC			
SNP_27883_A_32581441	NC_021163.1	Ca_Kabuli_Chr04	32581441	GG	TT	TT	INTERGENIC			
SNP_27884_A_32581442	NC_021163.1	Ca_Kabuli_Chr04	32581442	AA	GG	GG	INTERGENIC			
SNP_27885_A_32581460	NC_021163.1	Ca_Kabuli_Chr04	32581460	CC	AA	AA	INTERGENIC			
SNP_27886_A_32581734	NC_021163.1	Ca_Kabuli_Chr04	32581734	GG	AA	AA	INTERGENIC			
SNP_27887_A_32581878	NC_021163.1	Ca_Kabuli_Chr04	32581878	GG	AA	AA	INTERGENIC			
SNP_27888_A_32584056	NC_021163.1	Ca_Kabuli_Chr04	32584056	CC	TT	TT	INTERGENIC			
SNP_27889_A_32584139	NC_021163.1	Ca_Kabuli_Chr04	32584139	CC	TT	TT	INTERGENIC			
SNP_27890_A_32586682	NC_021163.1	Ca_Kabuli_Chr04	32586682	AA	GG	GG	INTERGENIC			
SNP_27892_A_32590130	NC_021163.1	Ca_Kabuli_Chr04	32590130	GG	TT	TT	INTERGENIC			
SNP_27894_A_32590591	NC_021163.1	Ca_Kabuli_Chr04	32590591	TT	CC	CC	INTERGENIC			
SNP_27895_A_32590667	NC_021163.1	Ca_Kabuli_Chr04	32590667	GG	TT	TT	INTERGENIC			
SNP_27896_A_32593611	NC_021163.1	Ca_Kabuli_Chr04	32593611	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27897_A_32594619	NC_021163.1	Ca_Kabuli_Chr04	32594619	TT	CC	CC	INTERGENIC		
SNP_27898_A_32596706	NC_021163.1	Ca_Kabuli_Chr04	32596706	AA	GG	GG	INTERGENIC		
SNP_27899_A_32601398	NC_021163.1	Ca_Kabuli_Chr04	32601398	GG	CC	CC	INTERGENIC		
SNP_27900_A_32602070	NC_021163.1	Ca_Kabuli_Chr04	32602070	CC	TT	TT	DRR	101504058	pentatricopeptide repeat-containing protein At3g23020-like
SNP_27901_A_32605848	NC_021163.1	Ca_Kabuli_Chr04	32605848	AA	TT	TT	NON_SYNONYMOUS_CODING	101504058	pentatricopeptide repeat-containing protein At3g23020-like
SNP_27902_A_32608905	NC_021163.1	Ca_Kabuli_Chr04	32608905	GG	AA	AA	INTERGENIC		
SNP_27903_A_32610160	NC_021163.1	Ca_Kabuli_Chr04	32610160	AA	GG	GG	INTERGENIC		
SNP_27904_A_32615069	NC_021163.1	Ca_Kabuli_Chr04	32615069	GG	AA	AA	URR	101503729	zinc finger MYM-type protein 1-like
SNP_27905_A_32615115	NC_021163.1	Ca_Kabuli_Chr04	32615115	AA	CC	CC	URR	101503729	zinc finger MYM-type protein 1-like
SNP_27906_A_32617703	NC_021163.1	Ca_Kabuli_Chr04	32617703	GG	AA	AA	INTERGENIC		
SNP_27907_A_32617968	NC_021163.1	Ca_Kabuli_Chr04	32617968	AA	GG	GG	INTERGENIC		
SNP_27908_A_32620667	NC_021163.1	Ca_Kabuli_Chr04	32620667	CC	TT	TT	INTERGENIC		
SNP_27909_A_32621087	NC_021163.1	Ca_Kabuli_Chr04	32621087	CC	TT	TT	INTERGENIC		
SNP_27912_A_32623274	NC_021163.1	Ca_Kabuli_Chr04	32623274	GG	CC	CC	DRR	101502347	acylamino-acid-releasing enzyme
SNP_27913_A_32626017	NC_021163.1	Ca_Kabuli_Chr04	32626017	GG	AA	AA	INTRON	101502347	acylamino-acid-releasing enzyme
SNP_27914_A_32626047	NC_021163.1	Ca_Kabuli_Chr04	32626047	TT	AA	AA	INTRON	101502347	acylamino-acid-releasing enzyme
SNP_27916_A_32635128	NC_021163.1	Ca_Kabuli_Chr04	32635128	AA	CC	CC	INTERGENIC		
SNP_27917_A_32635135	NC_021163.1	Ca_Kabuli_Chr04	32635135	GG	TT	TT	INTERGENIC		
SNP_27918_A_32638022	NC_021163.1	Ca_Kabuli_Chr04	32638022	GG	TT	TT	NON_SYNONYMOUS_CODING	101490923	pentatricopeptide repeat-containing protein At1g52620-like
SNP_27919_A_32640058	NC_021163.1	Ca_Kabuli_Chr04	32640058	CC	TT	TT	URR	101490923	pentatricopeptide repeat-containing protein At1g52620-like
SNP_27920_A_32644084	NC_021163.1	Ca_Kabuli_Chr04	32644084	AA	CC	CC	INTERGENIC		
SNP_27921_A_32644122	NC_021163.1	Ca_Kabuli_Chr04	32644122	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_27922_A_32646882	NC_021163.1	Ca_Kabuli_Chr04	32646882	TT	CC	CC	INTRON	101505997	photosynthetic NDH subunit of subcomplex B 5, chloroplatic
SNP_27923_A_32654541	NC_021163.1	Ca_Kabuli_Chr04	32654541	TT	AA	AA	INTERGENIC		
SNP_27924_A_32664304	NC_021163.1	Ca_Kabuli_Chr04	32664304	TT	CC	CC	INTRON	101491875	Unknown function
SNP_27925_A_32665248	NC_021163.1	Ca_Kabuli_Chr04	32665248	TT	CC	CC	INTRON	101491875	Unknown function
SNP_27926_A_32666585	NC_021163.1	Ca_Kabuli_Chr04	32666585	CC	TT	TT	INTRON	101491875	Unknown function
SNP_27927_A_32666589	NC_021163.1	Ca_Kabuli_Chr04	32666589	TT	CC	CC	INTRON	101491875	Unknown function
SNP_27928_A_32667452	NC_021163.1	Ca_Kabuli_Chr04	32667452	AA	CC	CC	INTRON	101491875	Unknown function
SNP_27929_A_32673191	NC_021163.1	Ca_Kabuli_Chr04	32673191	AA	GG	GG	INTERGENIC		
SNP_27930_A_32673237	NC_021163.1	Ca_Kabuli_Chr04	32673237	AA	GG	GG	INTERGENIC		
SNP_27931_A_32682883	NC_021163.1	Ca_Kabuli_Chr04	32682883	GG	AA	AA	INTERGENIC		
SNP_27933_A_32700170	NC_021163.1	Ca_Kabuli_Chr04	32700170	CC	TT	TT	INTERGENIC		
SNP_27934_A_32700171	NC_021163.1	Ca_Kabuli_Chr04	32700171	AA	GG	GG	INTERGENIC		
SNP_27935_A_32717726	NC_021163.1	Ca_Kabuli_Chr04	32717726	TT	GG	GG	INTRON	101492209	Unknown function
SNP_27936_A_32763381	NC_021163.1	Ca_Kabuli_Chr04	32763381	AA	TT	TT	INTRON	101492546	uncharacterized protein PB18E9.04c-like
SNP_27937_A_32763391	NC_021163.1	Ca_Kabuli_Chr04	32763391	TT	GG	GG	INTRON	101492546	uncharacterized protein PB18E9.04c-like
SNP_27938_A_32765112	NC_021163.1	Ca_Kabuli_Chr04	32765112	TT	CC	CC	NON_SYNONYMOUS_CODING	101492546	uncharacterized protein PB18E9.04c-like
SNP_27939_A_32765146	NC_021163.1	Ca_Kabuli_Chr04	32765146	GG	AA	AA	NON_SYNONYMOUS_CODING	101492546	uncharacterized protein PB18E9.04c-like
SNP_27940_A_32766058	NC_021163.1	Ca_Kabuli_Chr04	32766058	TT	CC	CC	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27941_A_32766152	NC_021163.1	Ca_Kabuli_Chr04	32766152	CC	TT	TT	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27942_A_32767267	NC_021163.1	Ca_Kabuli_Chr04	32767267	AA	GG	GG	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27943_A_32767272	NC_021163.1	Ca_Kabuli_Chr04	32767272	CC	TT	TT	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27944_A_32767287	NC_021163.1	Ca_Kabuli_Chr04	32767287	CC	TT	TT	URR	101492546	uncharacterized protein PB18E9.04c-like

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SNP_27945_A_32767306	NC_021163.1	Ca_Kabuli_Chr04	32767306	TT	CC	CC	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27946_A_32767318	NC_021163.1	Ca_Kabuli_Chr04	32767318	AA	CC	CC	URR	101492546	uncharacterized protein PB18E9.04c-like
SNP_27947_A_32770378	NC_021163.1	Ca_Kabuli_Chr04	32770378	AA	GG	GG	INTERGENIC		
SNP_27948_A_32791080	NC_021163.1	Ca_Kabuli_Chr04	32791080	GG	AA	AA	INTERGENIC		
SNP_27949_A_32793483	NC_021163.1	Ca_Kabuli_Chr04	32793483	AA	GG	GG	INTERGENIC		
SNP_27950_A_32793967	NC_021163.1	Ca_Kabuli_Chr04	32793967	AA	GG	GG	INTERGENIC		
SNP_27951_A_32830178	NC_021163.1	Ca_Kabuli_Chr04	32830178	TT	CC	CC	INTERGENIC		
SNP_27952_A_32861899	NC_021163.1	Ca_Kabuli_Chr04	32861899	AA	GG	GG	URR	101507814	DNA topoisomerase 1-like
SNP_27953_A_32861926	NC_021163.1	Ca_Kabuli_Chr04	32861926	GG	AA	AA	URR	101507814	DNA topoisomerase 1-like
SNP_27954_A_32884368	NC_021163.1	Ca_Kabuli_Chr04	32884368	AA	GG	GG	INTERGENIC		
SNP_27955_A_32885342	NC_021163.1	Ca_Kabuli_Chr04	32885342	AA	GG	GG	INTERGENIC		
SNP_27956_A_32885346	NC_021163.1	Ca_Kabuli_Chr04	32885346	CC	TT	TT	INTERGENIC		
SNP_27957_A_32885360	NC_021163.1	Ca_Kabuli_Chr04	32885360	AA	GG	GG	INTERGENIC		
SNP_27958_A_32885364	NC_021163.1	Ca_Kabuli_Chr04	32885364	CC	TT	TT	INTERGENIC		
SNP_27959_A_32885377	NC_021163.1	Ca_Kabuli_Chr04	32885377	AA	GG	GG	INTERGENIC		
SNP_27960_A_32885397	NC_021163.1	Ca_Kabuli_Chr04	32885397	CC	AA	AA	INTERGENIC		
SNP_27961_A_32885425	NC_021163.1	Ca_Kabuli_Chr04	32885425	CC	TT	TT	INTERGENIC		
SNP_27963_A_32885560	NC_021163.1	Ca_Kabuli_Chr04	32885560	GG	AA	AA	INTERGENIC		
SNP_27964_A_32885592	NC_021163.1	Ca_Kabuli_Chr04	32885592	CC	GG	GG	INTERGENIC		
SNP_27965_A_32885614	NC_021163.1	Ca_Kabuli_Chr04	32885614	AA	GG	GG	INTERGENIC		
SNP_27966_A_32885640	NC_021163.1	Ca_Kabuli_Chr04	32885640	TT	CC	CC	INTERGENIC		
SNP_27967_A_32885657	NC_021163.1	Ca_Kabuli_Chr04	32885657	CC	TT	TT	INTERGENIC		

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SNP_27968_A_32885673	NC_021163.1	Ca_Kabuli_Chr04	32885673	CC	TT	TT	INTERGENIC			
SNP_27969_A_32885694	NC_021163.1	Ca_Kabuli_Chr04	32885694	AA	CC	CC	INTERGENIC			
SNP_27970_A_32885734	NC_021163.1	Ca_Kabuli_Chr04	32885734	TT	CC	CC	INTERGENIC			
SNP_27971_A_32885912	NC_021163.1	Ca_Kabuli_Chr04	32885912	GG	AA	AA	INTERGENIC			
SNP_27972_A_32886023	NC_021163.1	Ca_Kabuli_Chr04	32886023	CC	TT	TT	INTERGENIC			
SNP_27973_A_32886065	NC_021163.1	Ca_Kabuli_Chr04	32886065	GG	AA	AA	INTERGENIC			
SNP_27974_A_32886108	NC_021163.1	Ca_Kabuli_Chr04	32886108	TT	CC	CC	INTERGENIC			
SNP_27975_A_32886149	NC_021163.1	Ca_Kabuli_Chr04	32886149	AA	CC	CC	INTERGENIC			
SNP_27976_A_32886157	NC_021163.1	Ca_Kabuli_Chr04	32886157	TT	GG	GG	INTERGENIC			
SNP_27977_A_32886200	NC_021163.1	Ca_Kabuli_Chr04	32886200	AA	TT	TT	INTERGENIC			
SNP_27978_A_32886233	NC_021163.1	Ca_Kabuli_Chr04	32886233	GG	AA	AA	INTERGENIC			
SNP_27979_A_32886314	NC_021163.1	Ca_Kabuli_Chr04	32886314	AA	GG	GG	INTERGENIC			
SNP_27980_A_32886372	NC_021163.1	Ca_Kabuli_Chr04	32886372	AA	GG	GG	INTERGENIC			
SNP_27982_A_32886408	NC_021163.1	Ca_Kabuli_Chr04	32886408	TT	CC	CC	INTERGENIC			
SNP_27983_A_32886442	NC_021163.1	Ca_Kabuli_Chr04	32886442	TT	CC	CC	INTERGENIC			
SNP_27984_A_32886446	NC_021163.1	Ca_Kabuli_Chr04	32886446	CC	TT	TT	INTERGENIC			
SNP_27986_A_32886496	NC_021163.1	Ca_Kabuli_Chr04	32886496	TT	CC	CC	INTERGENIC			
SNP_27987_A_32886676	NC_021163.1	Ca_Kabuli_Chr04	32886676	AA	GG	GG	INTERGENIC			
SNP_27988_A_32886801	NC_021163.1	Ca_Kabuli_Chr04	32886801	TT	CC	CC	INTERGENIC			
SNP_27989_A_32888760	NC_021163.1	Ca_Kabuli_Chr04	32888760	AA	CC	CC	INTERGENIC			
SNP_27990_A_32888845	NC_021163.1	Ca_Kabuli_Chr04	32888845	TT	CC	CC	INTERGENIC			
SNP_27991_A_32888869	NC_021163.1	Ca_Kabuli_Chr04	32888869	AA	GG	GG	INTERGENIC			

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SNP_27992_A_32902298	NC_021163.1	Ca_Kabuli_Chr04	32902298	AA	GG	GG	INTERGENIC			
SNP_27993_A_32902358	NC_021163.1	Ca_Kabuli_Chr04	32902358	CC	TT	TT	INTERGENIC			
SNP_27994_A_32902475	NC_021163.1	Ca_Kabuli_Chr04	32902475	CC	AA	AA	INTERGENIC			
SNP_27995_A_32902670	NC_021163.1	Ca_Kabuli_Chr04	32902670	CC	GG	GG	INTERGENIC			
SNP_27996_A_32902704	NC_021163.1	Ca_Kabuli_Chr04	32902704	GG	AA	AA	INTERGENIC			
SNP_27997_A_32902771	NC_021163.1	Ca_Kabuli_Chr04	32902771	CC	TT	TT	INTERGENIC			
SNP_27998_A_32902786	NC_021163.1	Ca_Kabuli_Chr04	32902786	TT	CC	CC	INTERGENIC			
SNP_27999_A_32902993	NC_021163.1	Ca_Kabuli_Chr04	32902993	TT	CC	CC	INTERGENIC			
SNP_28000_A_32913496	NC_021163.1	Ca_Kabuli_Chr04	32913496	TT	AA	AA	INTERGENIC			
SNP_28001_A_32967406	NC_021163.1	Ca_Kabuli_Chr04	32967406	CC	TT	TT	INTERGENIC			
SNP_28003_A_32994889	NC_021163.1	Ca_Kabuli_Chr04	32994889	CC	TT	TT	INTERGENIC			
SNP_28004_A_33037850	NC_021163.1	Ca_Kabuli_Chr04	33037850	AA	TT	TT	INTERGENIC			
SNP_28005_A_33050006	NC_021163.1	Ca_Kabuli_Chr04	33050006	GG	AA	AA	INTERGENIC			
SNP_28006_A_33050359	NC_021163.1	Ca_Kabuli_Chr04	33050359	CC	TT	TT	INTERGENIC			
SNP_28008_A_33050470	NC_021163.1	Ca_Kabuli_Chr04	33050470	TT	CC	CC	INTERGENIC			
SNP_28009_A_33050523	NC_021163.1	Ca_Kabuli_Chr04	33050523	AA	GG	GG	INTERGENIC			
SNP_28012_A_33058834	NC_021163.1	Ca_Kabuli_Chr04	33058834	CC	TT	TT	INTERGENIC			
SNP_28013_A_33059835	NC_021163.1	Ca_Kabuli_Chr04	33059835	CC	TT	TT	INTERGENIC			
SNP_28015_A_33065222	NC_021163.1	Ca_Kabuli_Chr04	33065222	GG	AA	AA	INTERGENIC			
SNP_28016_A_33067342	NC_021163.1	Ca_Kabuli_Chr04	33067342	TT	CC	CC	INTERGENIC			
SNP_28017_A_33068382	NC_021163.1	Ca_Kabuli_Chr04	33068382	TT	AA	AA	INTERGENIC			
SNP_28018_A_33076776	NC_021163.1	Ca_Kabuli_Chr04	33076776	AA	GG	GG	INTERGENIC			

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SNP_28019_A_33076781	NC_021163.1	Ca_Kabuli_Chr04	33076781	GG	AA	AA	INTERGENIC			
SNP_28020_A_33080677	NC_021163.1	Ca_Kabuli_Chr04	33080677	TT	AA	AA	INTERGENIC			
SNP_28021_A_33091730	NC_021163.1	Ca_Kabuli_Chr04	33091730	AA	TT	TT	INTERGENIC			
SNP_28022_A_33094046	NC_021163.1	Ca_Kabuli_Chr04	33094046	GG	CC	CC	INTERGENIC			
SNP_28025_A_33101216	NC_021163.1	Ca_Kabuli_Chr04	33101216	AA	GG	GG	INTERGENIC			
SNP_28026_A_33101544	NC_021163.1	Ca_Kabuli_Chr04	33101544	TT	CC	CC	INTERGENIC			
SNP_28027_A_33102256	NC_021163.1	Ca_Kabuli_Chr04	33102256	TT	CC	CC	INTERGENIC			
SNP_28028_A_33103398	NC_021163.1	Ca_Kabuli_Chr04	33103398	CC	GG	GG	INTERGENIC			
SNP_28029_A_33107865	NC_021163.1	Ca_Kabuli_Chr04	33107865	AA	GG	GG	INTERGENIC			
SNP_28030_A_33111315	NC_021163.1	Ca_Kabuli_Chr04	33111315	CC	AA	AA	INTERGENIC			
SNP_28031_A_33121083	NC_021163.1	Ca_Kabuli_Chr04	33121083	CC	TT	TT	INTERGENIC			
SNP_28032_A_33133917	NC_021163.1	Ca_Kabuli_Chr04	33133917	TT	AA	AA	INTERGENIC			
SNP_28033_A_33136950	NC_021163.1	Ca_Kabuli_Chr04	33136950	GG	AA	AA	INTERGENIC			
SNP_28034_A_33140829	NC_021163.1	Ca_Kabuli_Chr04	33140829	TT	AA	AA	INTERGENIC			
SNP_28035_A_33140913	NC_021163.1	Ca_Kabuli_Chr04	33140913	TT	AA	AA	INTERGENIC			
SNP_28037_A_33150934	NC_021163.1	Ca_Kabuli_Chr04	33150934	CC	AA	AA	INTERGENIC			
SNP_28038_A_33152502	NC_021163.1	Ca_Kabuli_Chr04	33152502	CC	TT	TT	INTERGENIC			
SNP_28039_A_33163562	NC_021163.1	Ca_Kabuli_Chr04	33163562	TT	AA	AA	INTERGENIC			
SNP_28040_A_33166087	NC_021163.1	Ca_Kabuli_Chr04	33166087	TT	CC	CC	INTERGENIC			
SNP_28041_A_33167701	NC_021163.1	Ca_Kabuli_Chr04	33167701	TT	CC	CC	INTERGENIC			
SNP_28042_A_33167951	NC_021163.1	Ca_Kabuli_Chr04	33167951	AA	CC	CC	INTERGENIC			
SNP_28043_A_33168012	NC_021163.1	Ca_Kabuli_Chr04	33168012	CC	TT	TT	INTERGENIC			

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SNP_28044_A_33170489	NC_021163.1	Ca_Kabuli_Chr04	33170489	GG	AA	AA	INTERGENIC			
SNP_28045_A_33173580	NC_021163.1	Ca_Kabuli_Chr04	33173580	TT	GG	GG	INTERGENIC			
SNP_28046_A_33179286	NC_021163.1	Ca_Kabuli_Chr04	33179286	AA	GG	GG	INTERGENIC			
SNP_28047_A_33179298	NC_021163.1	Ca_Kabuli_Chr04	33179298	AA	GG	GG	INTERGENIC			
SNP_28048_A_33179805	NC_021163.1	Ca_Kabuli_Chr04	33179805	AA	TT	TT	INTERGENIC			
SNP_28049_A_33179813	NC_021163.1	Ca_Kabuli_Chr04	33179813	TT	GG	GG	INTERGENIC			
SNP_28050_A_33189518	NC_021163.1	Ca_Kabuli_Chr04	33189518	AA	TT	TT	INTERGENIC			
SNP_28051_A_33189730	NC_021163.1	Ca_Kabuli_Chr04	33189730	CC	AA	AA	INTERGENIC			
SNP_28052_A_33190174	NC_021163.1	Ca_Kabuli_Chr04	33190174	GG	CC	CC	INTERGENIC			
SNP_28053_A_33194723	NC_021163.1	Ca_Kabuli_Chr04	33194723	AA	GG	GG	INTERGENIC			
SNP_28055_A_33195088	NC_021163.1	Ca_Kabuli_Chr04	33195088	TT	CC	CC	INTERGENIC			
SNP_28056_A_33195226	NC_021163.1	Ca_Kabuli_Chr04	33195226	GG	AA	AA	INTERGENIC			
SNP_28057_A_33195284	NC_021163.1	Ca_Kabuli_Chr04	33195284	GG	AA	AA	INTERGENIC			
SNP_28058_A_33195296	NC_021163.1	Ca_Kabuli_Chr04	33195296	AA	CC	CC	INTERGENIC			
SNP_28059_A_33195625	NC_021163.1	Ca_Kabuli_Chr04	33195625	CC	AA	AA	INTERGENIC			
SNP_28060_A_33200124	NC_021163.1	Ca_Kabuli_Chr04	33200124	TT	GG	GG	INTERGENIC			
SNP_28061_A_33200704	NC_021163.1	Ca_Kabuli_Chr04	33200704	AA	GG	GG	INTERGENIC			
SNP_28062_A_33208327	NC_021163.1	Ca_Kabuli_Chr04	33208327	CC	AA	AA	INTERGENIC			
SNP_28063_A_33215269	NC_021163.1	Ca_Kabuli_Chr04	33215269	TT	CC	CC	INTERGENIC			
SNP_28064_A_33223101	NC_021163.1	Ca_Kabuli_Chr04	33223101	TT	CC	CC	INTRON	101494795		calcium-transporting ATPase 4, plasma membrane-type
SNP_28065_A_33239832	NC_021163.1	Ca_Kabuli_Chr04	33239832	CC	GG	GG	INTERGENIC			
SNP_28066_A_33240264	NC_021163.1	Ca_Kabuli_Chr04	33240264	CC	AA	AA	INTERGENIC			

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SNP_28067_A_33242258	NC_021163.1	Ca_Kabuli_Chr04	33242258	TT	AA	AA	INTERGENIC			
SNP_28068_A_33242663	NC_021163.1	Ca_Kabuli_Chr04	33242663	GG	AA	AA	INTERGENIC			
SNP_28069_A_33255566	NC_021163.1	Ca_Kabuli_Chr04	33255566	AA	GG	GG	INTERGENIC			
SNP_28070_A_33255589	NC_021163.1	Ca_Kabuli_Chr04	33255589	GG	AA	AA	INTERGENIC			
SNP_28071_A_33255613	NC_021163.1	Ca_Kabuli_Chr04	33255613	CC	TT	TT	INTERGENIC			
SNP_28072_A_33255725	NC_021163.1	Ca_Kabuli_Chr04	33255725	AA	GG	GG	INTERGENIC			
SNP_28073_A_33258912	NC_021163.1	Ca_Kabuli_Chr04	33258912	AA	GG	GG	INTERGENIC			
SNP_28074_A_33260415	NC_021163.1	Ca_Kabuli_Chr04	33260415	AA	GG	GG	INTERGENIC			
SNP_28075_A_33262293	NC_021163.1	Ca_Kabuli_Chr04	33262293	GG	CC	CC	INTERGENIC			
SNP_28076_A_33269906	NC_021163.1	Ca_Kabuli_Chr04	33269906	CC	TT	TT	INTERGENIC			
SNP_28077_A_33269958	NC_021163.1	Ca_Kabuli_Chr04	33269958	AA	GG	GG	INTERGENIC			
SNP_28079_A_33300429	NC_021163.1	Ca_Kabuli_Chr04	33300429	CC	GG	GG	INTERGENIC			
SNP_28080_A_33302295	NC_021163.1	Ca_Kabuli_Chr04	33302295	GG	TT	TT	INTERGENIC			
SNP_28081_A_33306195	NC_021163.1	Ca_Kabuli_Chr04	33306195	TT	CC	CC	INTERGENIC			
SNP_28083_A_33309002	NC_021163.1	Ca_Kabuli_Chr04	33309002	TT	CC	CC	URR	101497742		protein odd-skipped-like
SNP_28084_A_33310211	NC_021163.1	Ca_Kabuli_Chr04	33310211	AA	TT	TT	URR	101497742		protein odd-skipped-like
SNP_28085_A_33312791	NC_021163.1	Ca_Kabuli_Chr04	33312791	CC	TT	TT	INTERGENIC			
SNP_28087_A_33314592	NC_021163.1	Ca_Kabuli_Chr04	33314592	GG	TT	TT	INTERGENIC			
SNP_28089_A_33314669	NC_021163.1	Ca_Kabuli_Chr04	33314669	AA	GG	GG	INTERGENIC			
SNP_28090_A_33315689	NC_021163.1	Ca_Kabuli_Chr04	33315689	CC	TT	TT	INTERGENIC			
SNP_28091_A_33315735	NC_021163.1	Ca_Kabuli_Chr04	33315735	GG	TT	TT	INTERGENIC			
SNP_28093_A_33317464	NC_021163.1	Ca_Kabuli_Chr04	33317464	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28095_A_33327497	NC_021163.1	Ca_Kabuli_Chr04	33327497	TT	CC	CC	INTERGENIC			
SNP_28097_A_33328016	NC_021163.1	Ca_Kabuli_Chr04	33328016	CC	TT	TT	INTERGENIC			
SNP_28098_A_33329320	NC_021163.1	Ca_Kabuli_Chr04	33329320	GG	AA	AA	INTERGENIC			
SNP_28099_A_33329327	NC_021163.1	Ca_Kabuli_Chr04	33329327	GG	AA	AA	INTERGENIC			
SNP_28100_A_33329329	NC_021163.1	Ca_Kabuli_Chr04	33329329	CC	AA	AA	INTERGENIC			
SNP_28101_A_33329337	NC_021163.1	Ca_Kabuli_Chr04	33329337	GG	CC	CC	INTERGENIC			
SNP_28102_A_33329447	NC_021163.1	Ca_Kabuli_Chr04	33329447	AA	GG	GG	INTERGENIC			
SNP_28103_A_33329448	NC_021163.1	Ca_Kabuli_Chr04	33329448	GG	AA	AA	INTERGENIC			
SNP_28104_A_33331916	NC_021163.1	Ca_Kabuli_Chr04	33331916	CC	TT	TT	INTERGENIC			
SNP_28105_A_33337562	NC_021163.1	Ca_Kabuli_Chr04	33337562	AA	GG	GG	INTERGENIC			
SNP_28106_A_33337573	NC_021163.1	Ca_Kabuli_Chr04	33337573	CC	TT	TT	INTERGENIC			
SNP_28107_A_33339017	NC_021163.1	Ca_Kabuli_Chr04	33339017	TT	CC	CC	INTERGENIC			
SNP_28108_A_33339414	NC_021163.1	Ca_Kabuli_Chr04	33339414	TT	CC	CC	INTERGENIC			
SNP_28110_A_33340309	NC_021163.1	Ca_Kabuli_Chr04	33340309	TT	CC	CC	INTERGENIC			
SNP_28111_A_33340662	NC_021163.1	Ca_Kabuli_Chr04	33340662	AA	GG	GG	INTERGENIC			
SNP_28112_A_33340669	NC_021163.1	Ca_Kabuli_Chr04	33340669	GG	AA	AA	INTERGENIC			
SNP_28113_A_33341045	NC_021163.1	Ca_Kabuli_Chr04	33341045	CC	AA	AA	INTERGENIC			
SNP_28114_A_33343032	NC_021163.1	Ca_Kabuli_Chr04	33343032	GG	AA	AA	INTERGENIC			
SNP_28115_A_33346340	NC_021163.1	Ca_Kabuli_Chr04	33346340	TT	GG	GG	INTERGENIC			
SNP_28116_A_33346347	NC_021163.1	Ca_Kabuli_Chr04	33346347	TT	GG	GG	INTERGENIC			
SNP_28117_A_33346358	NC_021163.1	Ca_Kabuli_Chr04	33346358	AA	TT	TT	INTERGENIC			
SNP_28118_A_33346395	NC_021163.1	Ca_Kabuli_Chr04	33346395	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28119_A_33346565	NC_021163.1	Ca_Kabuli_Chr04	33346565	TT	AA	AA	INTERGENIC			
SNP_28120_A_33346573	NC_021163.1	Ca_Kabuli_Chr04	33346573	TT	CC	CC	INTERGENIC			
SNP_28121_A_33346582	NC_021163.1	Ca_Kabuli_Chr04	33346582	GG	TT	TT	INTERGENIC			
SNP_28122_A_33346586	NC_021163.1	Ca_Kabuli_Chr04	33346586	AA	TT	TT	INTERGENIC			
SNP_28123_A_33346604	NC_021163.1	Ca_Kabuli_Chr04	33346604	GG	AA	AA	INTERGENIC			
SNP_28124_A_33346741	NC_021163.1	Ca_Kabuli_Chr04	33346741	AA	GG	GG	INTERGENIC			
SNP_28125_A_33346804	NC_021163.1	Ca_Kabuli_Chr04	33346804	GG	TT	TT	INTERGENIC			
SNP_28126_A_33346832	NC_021163.1	Ca_Kabuli_Chr04	33346832	TT	GG	GG	INTERGENIC			
SNP_28128_A_33347072	NC_021163.1	Ca_Kabuli_Chr04	33347072	CC	TT	TT	INTERGENIC			
SNP_28129_A_33347134	NC_021163.1	Ca_Kabuli_Chr04	33347134	AA	TT	TT	INTERGENIC			
SNP_28130_A_33347258	NC_021163.1	Ca_Kabuli_Chr04	33347258	AA	CC	CC	INTERGENIC			
SNP_28131_A_33347299	NC_021163.1	Ca_Kabuli_Chr04	33347299	TT	CC	CC	INTERGENIC			
SNP_28132_A_33347416	NC_021163.1	Ca_Kabuli_Chr04	33347416	GG	TT	TT	INTERGENIC			
SNP_28133_A_33347451	NC_021163.1	Ca_Kabuli_Chr04	33347451	TT	AA	AA	INTERGENIC			
SNP_28134_A_33347508	NC_021163.1	Ca_Kabuli_Chr04	33347508	TT	GG	GG	INTERGENIC			
SNP_28135_A_33347516	NC_021163.1	Ca_Kabuli_Chr04	33347516	TT	CC	CC	INTERGENIC			
SNP_28136_A_33347529	NC_021163.1	Ca_Kabuli_Chr04	33347529	CC	TT	TT	INTERGENIC			
SNP_28137_A_33347559	NC_021163.1	Ca_Kabuli_Chr04	33347559	GG	AA	AA	INTERGENIC			
SNP_28138_A_33347589	NC_021163.1	Ca_Kabuli_Chr04	33347589	AA	CC	CC	INTERGENIC			
SNP_28139_A_33347651	NC_021163.1	Ca_Kabuli_Chr04	33347651	TT	CC	CC	INTERGENIC			
SNP_28140_A_33347670	NC_021163.1	Ca_Kabuli_Chr04	33347670	AA	CC	CC	INTERGENIC			
SNP_28141_A_33347692	NC_021163.1	Ca_Kabuli_Chr04	33347692	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28142_A_33347726	NC_021163.1	Ca_Kabuli_Chr04	33347726	CC	TT	TT	INTERGENIC			
SNP_28143_A_33347732	NC_021163.1	Ca_Kabuli_Chr04	33347732	GG	AA	AA	INTERGENIC			
SNP_28144_A_33347736	NC_021163.1	Ca_Kabuli_Chr04	33347736	TT	CC	CC	INTERGENIC			
SNP_28145_A_33347746	NC_021163.1	Ca_Kabuli_Chr04	33347746	AA	GG	GG	INTERGENIC			
SNP_28146_A_33347829	NC_021163.1	Ca_Kabuli_Chr04	33347829	AA	TT	TT	INTERGENIC			
SNP_28147_A_33347870	NC_021163.1	Ca_Kabuli_Chr04	33347870	AA	GG	GG	INTERGENIC			
SNP_28148_A_33347913	NC_021163.1	Ca_Kabuli_Chr04	33347913	CC	TT	TT	INTERGENIC			
SNP_28149_A_33347924	NC_021163.1	Ca_Kabuli_Chr04	33347924	AA	TT	TT	INTERGENIC			
SNP_28150_A_33348054	NC_021163.1	Ca_Kabuli_Chr04	33348054	CC	TT	TT	INTERGENIC			
SNP_28151_A_33348285	NC_021163.1	Ca_Kabuli_Chr04	33348285	GG	TT	TT	INTERGENIC			
SNP_28152_A_33348530	NC_021163.1	Ca_Kabuli_Chr04	33348530	GG	TT	TT	INTERGENIC			
SNP_28153_A_33348677	NC_021163.1	Ca_Kabuli_Chr04	33348677	GG	TT	TT	INTERGENIC			
SNP_28154_A_33349889	NC_021163.1	Ca_Kabuli_Chr04	33349889	AA	TT	TT	INTERGENIC			
SNP_28155_A_33356302	NC_021163.1	Ca_Kabuli_Chr04	33356302	CC	TT	TT	INTERGENIC			
SNP_28156_A_33356972	NC_021163.1	Ca_Kabuli_Chr04	33356972	CC	TT	TT	INTERGENIC			
SNP_28157_A_33357117	NC_021163.1	Ca_Kabuli_Chr04	33357117	TT	CC	CC	INTERGENIC			
SNP_28158_A_33357125	NC_021163.1	Ca_Kabuli_Chr04	33357125	TT	AA	AA	INTERGENIC			
SNP_28159_A_33357147	NC_021163.1	Ca_Kabuli_Chr04	33357147	GG	AA	AA	INTERGENIC			
SNP_28160_A_33359621	NC_021163.1	Ca_Kabuli_Chr04	33359621	CC	TT	TT	INTERGENIC			
SNP_28161_A_33359657	NC_021163.1	Ca_Kabuli_Chr04	33359657	CC	TT	TT	INTERGENIC			
SNP_28162_A_33359687	NC_021163.1	Ca_Kabuli_Chr04	33359687	TT	GG	GG	INTERGENIC			
SNP_28163_A_33359709	NC_021163.1	Ca_Kabuli_Chr04	33359709	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28164_A_33360020	NC_021163.1	Ca_Kabuli_Chr04	33360020	TT	CC	CC	INTERGENIC		
SNP_28165_A_33363214	NC_021163.1	Ca_Kabuli_Chr04	33363214	GG	AA	AA	INTERGENIC		
SNP_28166_A_33373780	NC_021163.1	Ca_Kabuli_Chr04	33373780	CC	TT	TT	INTERGENIC		
SNP_28167_A_33376154	NC_021163.1	Ca_Kabuli_Chr04	33376154	AA	TT	TT	INTERGENIC		
SNP_28168_A_33376399	NC_021163.1	Ca_Kabuli_Chr04	33376399	GG	AA	AA	INTERGENIC		
SNP_28169_A_33376753	NC_021163.1	Ca_Kabuli_Chr04	33376753	AA	CC	CC	INTERGENIC		
SNP_28170_A_33377567	NC_021163.1	Ca_Kabuli_Chr04	33377567	CC	TT	TT	INTERGENIC		
SNP_28171_A_33387019	NC_021163.1	Ca_Kabuli_Chr04	33387019	CC	TT	TT	INTERGENIC		
SNP_28172_A_33387031	NC_021163.1	Ca_Kabuli_Chr04	33387031	GG	AA	AA	INTERGENIC		
SNP_28173_A_33387033	NC_021163.1	Ca_Kabuli_Chr04	33387033	AA	GG	GG	INTERGENIC		
SNP_28174_A_33390388	NC_021163.1	Ca_Kabuli_Chr04	33390388	GG	AA	AA	INTERGENIC		
SNP_28176_A_33394085	NC_021163.1	Ca_Kabuli_Chr04	33394085	GG	AA	AA	INTRON	101498742	Unknown function
SNP_28179_A_33401199	NC_021163.1	Ca_Kabuli_Chr04	33401199	CC	TT	TT	INTERGENIC		
SNP_28180_A_33401318	NC_021163.1	Ca_Kabuli_Chr04	33401318	GG	AA	AA	INTERGENIC		
SNP_28181_A_33405478	NC_021163.1	Ca_Kabuli_Chr04	33405478	TT	GG	GG	INTERGENIC		
SNP_28182_A_33410713	NC_021163.1	Ca_Kabuli_Chr04	33410713	TT	GG	GG	INTERGENIC		
SNP_28183_A_33416600	NC_021163.1	Ca_Kabuli_Chr04	33416600	AA	TT	TT	INTERGENIC		
SNP_28184_A_33419034	NC_021163.1	Ca_Kabuli_Chr04	33419034	AA	CC	CC	INTERGENIC		
SNP_28185_A_33419035	NC_021163.1	Ca_Kabuli_Chr04	33419035	CC	AA	AA	INTERGENIC		
SNP_28186_A_33429489	NC_021163.1	Ca_Kabuli_Chr04	33429489	GG	AA	AA	INTRON	101495451	uncharacterized LOC101495451
SNP_28188_A_33434221	NC_021163.1	Ca_Kabuli_Chr04	33434221	TT	CC	CC	INTERGENIC		
SNP_28189_A_33434446	NC_021163.1	Ca_Kabuli_Chr04	33434446	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28190_A_33439401	NC_021163.1	Ca_Kabuli_Chr04	33439401	TT	AA	AA	INTERGENIC			
SNP_28191_A_33443138	NC_021163.1	Ca_Kabuli_Chr04	33443138	TT	GG	GG	INTERGENIC			
SNP_28192_A_33443188	NC_021163.1	Ca_Kabuli_Chr04	33443188	GG	AA	AA	INTERGENIC			
SNP_28193_A_33454315	NC_021163.1	Ca_Kabuli_Chr04	33454315	TT	CC	CC	INTERGENIC			
SNP_28196_A_33468261	NC_021163.1	Ca_Kabuli_Chr04	33468261	AA	TT	TT	INTERGENIC			
SNP_28197_A_33478889	NC_021163.1	Ca_Kabuli_Chr04	33478889	GG	AA	AA	INTERGENIC			
SNP_28198_A_33489856	NC_021163.1	Ca_Kabuli_Chr04	33489856	AA	CC	CC	INTERGENIC			
SNP_28199_A_33493411	NC_021163.1	Ca_Kabuli_Chr04	33493411	GG	AA	AA	INTERGENIC			
SNP_28200_A_33493435	NC_021163.1	Ca_Kabuli_Chr04	33493435	AA	GG	GG	INTERGENIC			
SNP_28201_A_33493448	NC_021163.1	Ca_Kabuli_Chr04	33493448	AA	GG	GG	INTERGENIC			
SNP_28202_A_33493743	NC_021163.1	Ca_Kabuli_Chr04	33493743	TT	GG	GG	INTERGENIC			
SNP_28203_A_33493747	NC_021163.1	Ca_Kabuli_Chr04	33493747	TT	CC	CC	INTERGENIC			
SNP_28204_A_33493763	NC_021163.1	Ca_Kabuli_Chr04	33493763	GG	AA	AA	INTERGENIC			
SNP_28205_A_33494322	NC_021163.1	Ca_Kabuli_Chr04	33494322	AA	GG	GG	INTERGENIC			
SNP_28206_A_33497460	NC_021163.1	Ca_Kabuli_Chr04	33497460	AA	TT	TT	INTERGENIC			
SNP_28207_A_33498155	NC_021163.1	Ca_Kabuli_Chr04	33498155	GG	TT	TT	INTERGENIC			
SNP_28208_A_33503710	NC_021163.1	Ca_Kabuli_Chr04	33503710	AA	TT	TT	INTERGENIC			
SNP_28209_A_33515442	NC_021163.1	Ca_Kabuli_Chr04	33515442	AA	GG	GG	INTERGENIC			
SNP_28210_A_33516045	NC_021163.1	Ca_Kabuli_Chr04	33516045	AA	GG	GG	INTERGENIC			
SNP_28211_A_33518478	NC_021163.1	Ca_Kabuli_Chr04	33518478	AA	CC	CC	INTERGENIC			
SNP_28212_A_33529437	NC_021163.1	Ca_Kabuli_Chr04	33529437	CC	TT	TT	INTERGENIC			
SNP_28213_A_33529587	NC_021163.1	Ca_Kabuli_Chr04	33529587	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28214_A_33533340	NC_021163.1	Ca_Kabuli_Chr04	33533340	AA	GG	GG	INTERGENIC			
SNP_28215_A_33533586	NC_021163.1	Ca_Kabuli_Chr04	33533586	CC	AA	AA	INTERGENIC			
SNP_28216_A_33539520	NC_021163.1	Ca_Kabuli_Chr04	33539520	CC	TT	TT	INTERGENIC			
SNP_28217_A_33543054	NC_021163.1	Ca_Kabuli_Chr04	33543054	AA	TT	TT	INTERGENIC			
SNP_28218_A_33553524	NC_021163.1	Ca_Kabuli_Chr04	33553524	CC	AA	AA	INTERGENIC			
SNP_28219_A_33553655	NC_021163.1	Ca_Kabuli_Chr04	33553655	CC	TT	TT	INTERGENIC			
SNP_28220_A_33554568	NC_021163.1	Ca_Kabuli_Chr04	33554568	TT	CC	CC	INTERGENIC			
SNP_28221_A_33555136	NC_021163.1	Ca_Kabuli_Chr04	33555136	GG	AA	AA	INTERGENIC			
SNP_28222_A_33561198	NC_021163.1	Ca_Kabuli_Chr04	33561198	GG	TT	TT	INTERGENIC			
SNP_28223_A_33561268	NC_021163.1	Ca_Kabuli_Chr04	33561268	CC	TT	TT	INTERGENIC			
SNP_28224_A_33561399	NC_021163.1	Ca_Kabuli_Chr04	33561399	GG	AA	AA	INTERGENIC			
SNP_28225_A_33561415	NC_021163.1	Ca_Kabuli_Chr04	33561415	AA	TT	TT	INTERGENIC			
SNP_28226_A_33561440	NC_021163.1	Ca_Kabuli_Chr04	33561440	TT	CC	CC	INTERGENIC			
SNP_28227_A_33561516	NC_021163.1	Ca_Kabuli_Chr04	33561516	TT	AA	AA	INTERGENIC			
SNP_28228_A_33561915	NC_021163.1	Ca_Kabuli_Chr04	33561915	GG	TT	TT	INTERGENIC			
SNP_28229_A_33566124	NC_021163.1	Ca_Kabuli_Chr04	33566124	AA	GG	GG	INTERGENIC			
SNP_28230_A_33566129	NC_021163.1	Ca_Kabuli_Chr04	33566129	AA	CC	CC	INTERGENIC			
SNP_28231_A_33568649	NC_021163.1	Ca_Kabuli_Chr04	33568649	TT	CC	CC	INTERGENIC			
SNP_28232_A_33570222	NC_021163.1	Ca_Kabuli_Chr04	33570222	TT	AA	AA	INTERGENIC			
SNP_28233_A_33570374	NC_021163.1	Ca_Kabuli_Chr04	33570374	TT	CC	CC	INTERGENIC			
SNP_28234_A_33570375	NC_021163.1	Ca_Kabuli_Chr04	33570375	TT	CC	CC	INTERGENIC			
SNP_28235_A_33570515	NC_021163.1	Ca_Kabuli_Chr04	33570515	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28236_A_33570574	NC_021163.1	Ca_Kabuli_Chr04	33570574	TT	AA	AA	INTERGENIC			
SNP_28237_A_33570620	NC_021163.1	Ca_Kabuli_Chr04	33570620	AA	CC	CC	INTERGENIC			
SNP_28238_A_33570653	NC_021163.1	Ca_Kabuli_Chr04	33570653	GG	TT	TT	INTERGENIC			
SNP_28239_A_33570654	NC_021163.1	Ca_Kabuli_Chr04	33570654	TT	CC	CC	INTERGENIC			
SNP_28240_A_33571306	NC_021163.1	Ca_Kabuli_Chr04	33571306	TT	CC	CC	INTERGENIC			
SNP_28241_A_33572340	NC_021163.1	Ca_Kabuli_Chr04	33572340	AA	GG	GG	INTERGENIC			
SNP_28242_A_33575071	NC_021163.1	Ca_Kabuli_Chr04	33575071	TT	CC	CC	INTERGENIC			
SNP_28243_A_33579772	NC_021163.1	Ca_Kabuli_Chr04	33579772	CC	TT	TT	INTERGENIC			
SNP_28244_A_33583801	NC_021163.1	Ca_Kabuli_Chr04	33583801	TT	CC	CC	INTERGENIC			
SNP_28246_A_33586521	NC_021163.1	Ca_Kabuli_Chr04	33586521	GG	AA	AA	INTERGENIC			
SNP_28247_A_33591335	NC_021163.1	Ca_Kabuli_Chr04	33591335	AA	GG	GG	INTERGENIC			
SNP_28248_A_33611761	NC_021163.1	Ca_Kabuli_Chr04	33611761	GG	TT	TT	URR	101496102	S-formylglutathione hydrolase-like	
SNP_28249_A_33614767	NC_021163.1	Ca_Kabuli_Chr04	33614767	CC	AA	AA	INTERGENIC			
SNP_28250_A_33614768	NC_021163.1	Ca_Kabuli_Chr04	33614768	TT	AA	AA	INTERGENIC			
SNP_28251_A_33614769	NC_021163.1	Ca_Kabuli_Chr04	33614769	TT	AA	AA	INTERGENIC			
SNP_28252_A_33614853	NC_021163.1	Ca_Kabuli_Chr04	33614853	TT	AA	AA	INTERGENIC			
SNP_28253_A_33615115	NC_021163.1	Ca_Kabuli_Chr04	33615115	GG	TT	TT	INTERGENIC			
SNP_28254_A_33615195	NC_021163.1	Ca_Kabuli_Chr04	33615195	CC	TT	TT	INTERGENIC			
SNP_28255_A_33615454	NC_021163.1	Ca_Kabuli_Chr04	33615454	TT	CC	CC	INTERGENIC			
SNP_28257_A_33615503	NC_021163.1	Ca_Kabuli_Chr04	33615503	AA	GG	GG	INTERGENIC			
SNP_28259_A_33615675	NC_021163.1	Ca_Kabuli_Chr04	33615675	CC	AA	AA	INTERGENIC			
SNP_28260_A_33615795	NC_021163.1	Ca_Kabuli_Chr04	33615795	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28261_A_33615837	NC_021163.1	Ca_Kabuli_Chr04	33615837	CC	TT	TT	INTERGENIC			
SNP_28262_A_33616030	NC_021163.1	Ca_Kabuli_Chr04	33616030	CC	TT	TT	INTERGENIC			
SNP_28263_A_33616090	NC_021163.1	Ca_Kabuli_Chr04	33616090	CC	AA	AA	INTERGENIC			
SNP_28264_A_33616162	NC_021163.1	Ca_Kabuli_Chr04	33616162	TT	CC	CC	INTERGENIC			
SNP_28265_A_33616165	NC_021163.1	Ca_Kabuli_Chr04	33616165	AA	TT	TT	INTERGENIC			
SNP_28266_A_33616178	NC_021163.1	Ca_Kabuli_Chr04	33616178	CC	TT	TT	INTERGENIC			
SNP_28267_A_33616432	NC_021163.1	Ca_Kabuli_Chr04	33616432	CC	AA	AA	INTERGENIC			
SNP_28268_A_33616469	NC_021163.1	Ca_Kabuli_Chr04	33616469	AA	CC	CC	INTERGENIC			
SNP_28269_A_33616550	NC_021163.1	Ca_Kabuli_Chr04	33616550	AA	GG	GG	INTERGENIC			
SNP_28270_A_33616676	NC_021163.1	Ca_Kabuli_Chr04	33616676	AA	GG	GG	INTERGENIC			
SNP_28271_A_33616999	NC_021163.1	Ca_Kabuli_Chr04	33616999	CC	TT	TT	INTERGENIC			
SNP_28272_A_33617101	NC_021163.1	Ca_Kabuli_Chr04	33617101	TT	CC	CC	INTERGENIC			
SNP_28273_A_33618689	NC_021163.1	Ca_Kabuli_Chr04	33618689	CC	TT	TT	INTERGENIC			
SNP_28274_A_33618888	NC_021163.1	Ca_Kabuli_Chr04	33618888	TT	CC	CC	INTERGENIC			
SNP_28275_A_33619084	NC_021163.1	Ca_Kabuli_Chr04	33619084	AA	GG	GG	INTERGENIC			
SNP_28276_A_33619100	NC_021163.1	Ca_Kabuli_Chr04	33619100	TT	AA	AA	INTERGENIC			
SNP_28277_A_33619106	NC_021163.1	Ca_Kabuli_Chr04	33619106	CC	AA	AA	INTERGENIC			
SNP_28278_A_33619267	NC_021163.1	Ca_Kabuli_Chr04	33619267	TT	GG	GG	INTERGENIC			
SNP_28279_A_33619709	NC_021163.1	Ca_Kabuli_Chr04	33619709	GG	CC	CC	INTERGENIC			
SNP_28280_A_33619854	NC_021163.1	Ca_Kabuli_Chr04	33619854	CC	AA	AA	INTERGENIC			
SNP_28281_A_33620078	NC_021163.1	Ca_Kabuli_Chr04	33620078	CC	AA	AA	INTERGENIC			
SNP_28282_A_33620129	NC_021163.1	Ca_Kabuli_Chr04	33620129	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28283_A_33620543	NC_021163.1	Ca_Kabuli_Chr04	33620543	CC	TT	TT	INTERGENIC			
SNP_28284_A_33620552	NC_021163.1	Ca_Kabuli_Chr04	33620552	TT	CC	CC	INTERGENIC			
SNP_28285_A_33620567	NC_021163.1	Ca_Kabuli_Chr04	33620567	TT	CC	CC	INTERGENIC			
SNP_28286_A_33620607	NC_021163.1	Ca_Kabuli_Chr04	33620607	CC	TT	TT	INTERGENIC			
SNP_28287_A_33620611	NC_021163.1	Ca_Kabuli_Chr04	33620611	GG	AA	AA	INTERGENIC			
SNP_28288_A_33620619	NC_021163.1	Ca_Kabuli_Chr04	33620619	AA	GG	GG	INTERGENIC			
SNP_28289_A_33620823	NC_021163.1	Ca_Kabuli_Chr04	33620823	TT	CC	CC	INTERGENIC			
SNP_28290_A_33620843	NC_021163.1	Ca_Kabuli_Chr04	33620843	CC	TT	TT	INTERGENIC			
SNP_28291_A_33620861	NC_021163.1	Ca_Kabuli_Chr04	33620861	TT	CC	CC	INTERGENIC			
SNP_28292_A_33620867	NC_021163.1	Ca_Kabuli_Chr04	33620867	TT	CC	CC	INTERGENIC			
SNP_28293_A_33620876	NC_021163.1	Ca_Kabuli_Chr04	33620876	GG	CC	CC	INTERGENIC			
SNP_28294_A_33620880	NC_021163.1	Ca_Kabuli_Chr04	33620880	AA	GG	GG	INTERGENIC			
SNP_28295_A_33620908	NC_021163.1	Ca_Kabuli_Chr04	33620908	AA	GG	GG	INTERGENIC			
SNP_28296_A_33620984	NC_021163.1	Ca_Kabuli_Chr04	33620984	TT	CC	CC	INTERGENIC			
SNP_28297_A_33621016	NC_021163.1	Ca_Kabuli_Chr04	33621016	TT	CC	CC	INTERGENIC			
SNP_28298_A_33621040	NC_021163.1	Ca_Kabuli_Chr04	33621040	AA	TT	TT	INTERGENIC			
SNP_28299_A_33621109	NC_021163.1	Ca_Kabuli_Chr04	33621109	CC	AA	AA	INTERGENIC			
SNP_28300_A_33621110	NC_021163.1	Ca_Kabuli_Chr04	33621110	TT	CC	CC	INTERGENIC			
SNP_28301_A_33621111	NC_021163.1	Ca_Kabuli_Chr04	33621111	AA	GG	GG	INTERGENIC			
SNP_28302_A_33621114	NC_021163.1	Ca_Kabuli_Chr04	33621114	AA	TT	TT	INTERGENIC			
SNP_28303_A_33621150	NC_021163.1	Ca_Kabuli_Chr04	33621150	AA	GG	GG	INTERGENIC			
SNP_28304_A_33621681	NC_021163.1	Ca_Kabuli_Chr04	33621681	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28305_A_33625860	NC_021163.1	Ca_Kabuli_Chr04	33625860	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28306_A_33626015	NC_021163.1	Ca_Kabuli_Chr04	33626015	AA	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28307_A_33626018	NC_021163.1	Ca_Kabuli_Chr04	33626018	TT	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28308_A_33626038	NC_021163.1	Ca_Kabuli_Chr04	33626038	AA	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28309_A_33626039	NC_021163.1	Ca_Kabuli_Chr04	33626039	AA	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28310_A_33626146	NC_021163.1	Ca_Kabuli_Chr04	33626146	CC	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28311_A_33626160	NC_021163.1	Ca_Kabuli_Chr04	33626160	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28312_A_33626163	NC_021163.1	Ca_Kabuli_Chr04	33626163	CC	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28313_A_33626165	NC_021163.1	Ca_Kabuli_Chr04	33626165	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28314_A_33626194	NC_021163.1	Ca_Kabuli_Chr04	33626194	AA	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28315_A_33626214	NC_021163.1	Ca_Kabuli_Chr04	33626214	GG	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28316_A_33626220	NC_021163.1	Ca_Kabuli_Chr04	33626220	GG	AA	AA	URR	101499683	uncharacterized LOC101499683
SNP_28317_A_33626232	NC_021163.1	Ca_Kabuli_Chr04	33626232	AA	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28318_A_33626233	NC_021163.1	Ca_Kabuli_Chr04	33626233	TT	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28319_A_33626245	NC_021163.1	Ca_Kabuli_Chr04	33626245	AA	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28320_A_33626250	NC_021163.1	Ca_Kabuli_Chr04	33626250	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28321_A_33626257	NC_021163.1	Ca_Kabuli_Chr04	33626257	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28322_A_33626279	NC_021163.1	Ca_Kabuli_Chr04	33626279	CC	TT	TT	URR	101499683	uncharacterized LOC101499683
SNP_28323_A_33626283	NC_021163.1	Ca_Kabuli_Chr04	33626283	AA	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28324_A_33626286	NC_021163.1	Ca_Kabuli_Chr04	33626286	AA	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28325_A_33626346	NC_021163.1	Ca_Kabuli_Chr04	33626346	AA	GG	GG	URR	101499683	uncharacterized LOC101499683
SNP_28326_A_33626384	NC_021163.1	Ca_Kabuli_Chr04	33626384	CC	TT	TT	URR	101499683	uncharacterized LOC101499683

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28327_A_33626401	NC_021163.1	Ca_Kabuli_Chr04	33626401	AA	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28328_A_33626417	NC_021163.1	Ca_Kabuli_Chr04	33626417	TT	CC	CC	URR	101499683	uncharacterized LOC101499683
SNP_28329_A_33627131	NC_021163.1	Ca_Kabuli_Chr04	33627131	GG	AA	AA	INTERGENIC		
SNP_28331_A_33629872	NC_021163.1	Ca_Kabuli_Chr04	33629872	TT	CC	CC	INTERGENIC		
SNP_28332_A_33629887	NC_021163.1	Ca_Kabuli_Chr04	33629887	GG	AA	AA	INTERGENIC		
SNP_28333_A_33629992	NC_021163.1	Ca_Kabuli_Chr04	33629992	TT	CC	CC	INTERGENIC		
SNP_28334_A_33629995	NC_021163.1	Ca_Kabuli_Chr04	33629995	AA	CC	CC	INTERGENIC		
SNP_28335_A_33630007	NC_021163.1	Ca_Kabuli_Chr04	33630007	GG	AA	AA	INTERGENIC		
SNP_28336_A_33630014	NC_021163.1	Ca_Kabuli_Chr04	33630014	TT	CC	CC	INTERGENIC		
SNP_28337_A_33630038	NC_021163.1	Ca_Kabuli_Chr04	33630038	GG	CC	CC	INTERGENIC		
SNP_28339_A_33654178	NC_021163.1	Ca_Kabuli_Chr04	33654178	AA	TT	TT	INTERGENIC		
SNP_28340_A_33662113	NC_021163.1	Ca_Kabuli_Chr04	33662113	AA	TT	TT	INTERGENIC		
SNP_28341_A_33662114	NC_021163.1	Ca_Kabuli_Chr04	33662114	AA	CC	CC	INTERGENIC		
SNP_28342_A_33663078	NC_021163.1	Ca_Kabuli_Chr04	33663078	TT	CC	CC	INTERGENIC		
SNP_28343_A_33675919	NC_021163.1	Ca_Kabuli_Chr04	33675919	TT	CC	CC	INTERGENIC		
SNP_28344_A_33692125	NC_021163.1	Ca_Kabuli_Chr04	33692125	AA	GG	GG	INTERGENIC		
SNP_28345_A_33702642	NC_021163.1	Ca_Kabuli_Chr04	33702642	GG	AA	AA	INTERGENIC		
SNP_28346_A_33709111	NC_021163.1	Ca_Kabuli_Chr04	33709111	GG	AA	AA	INTERGENIC		
SNP_28347_A_33713233	NC_021163.1	Ca_Kabuli_Chr04	33713233	TT	CC	CC	INTERGENIC		
SNP_28348_A_33713320	NC_021163.1	Ca_Kabuli_Chr04	33713320	CC	TT	TT	INTERGENIC		
SNP_28349_A_33713866	NC_021163.1	Ca_Kabuli_Chr04	33713866	TT	CC	CC	INTERGENIC		
SNP_28350_A_33713955	NC_021163.1	Ca_Kabuli_Chr04	33713955	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28351_A_33714031	NC_021163.1	Ca_Kabuli_Chr04	33714031	GG	AA	AA	INTERGENIC			
SNP_28352_A_33714074	NC_021163.1	Ca_Kabuli_Chr04	33714074	TT	AA	AA	INTERGENIC			
SNP_28355_A_33714593	NC_021163.1	Ca_Kabuli_Chr04	33714593	GG	TT	TT	INTERGENIC			
SNP_28356_A_33714737	NC_021163.1	Ca_Kabuli_Chr04	33714737	AA	GG	GG	INTERGENIC			
SNP_28357_A_33715120	NC_021163.1	Ca_Kabuli_Chr04	33715120	GG	AA	AA	INTERGENIC			
SNP_28358_A_33715134	NC_021163.1	Ca_Kabuli_Chr04	33715134	CC	TT	TT	INTERGENIC			
SNP_28359_A_33715138	NC_021163.1	Ca_Kabuli_Chr04	33715138	GG	AA	AA	INTERGENIC			
SNP_28360_A_33715217	NC_021163.1	Ca_Kabuli_Chr04	33715217	AA	GG	GG	INTERGENIC			
SNP_28363_A_33716339	NC_021163.1	Ca_Kabuli_Chr04	33716339	AA	TT	TT	INTERGENIC			
SNP_28364_A_33716607	NC_021163.1	Ca_Kabuli_Chr04	33716607	GG	CC	AA	INTERGENIC			
SNP_28365_A_33717044	NC_021163.1	Ca_Kabuli_Chr04	33717044	GG	AA	AA	INTERGENIC			
SNP_28366_A_33717195	NC_021163.1	Ca_Kabuli_Chr04	33717195	AA	CC	CC	INTERGENIC			
SNP_28367_A_33717350	NC_021163.1	Ca_Kabuli_Chr04	33717350	TT	CC	CC	INTERGENIC			
SNP_28368_A_33717427	NC_021163.1	Ca_Kabuli_Chr04	33717427	AA	GG	GG	INTERGENIC			
SNP_28369_A_33717748	NC_021163.1	Ca_Kabuli_Chr04	33717748	GG	AA	AA	INTERGENIC			
SNP_28370_A_33717802	NC_021163.1	Ca_Kabuli_Chr04	33717802	TT	AA	AA	INTERGENIC			
SNP_28371_A_33717957	NC_021163.1	Ca_Kabuli_Chr04	33717957	AA	CC	CC	INTERGENIC			
SNP_28372_A_33717964	NC_021163.1	Ca_Kabuli_Chr04	33717964	GG	TT	TT	INTERGENIC			
SNP_28373_A_33718341	NC_021163.1	Ca_Kabuli_Chr04	33718341	TT	CC	CC	INTERGENIC			
SNP_28374_A_33718355	NC_021163.1	Ca_Kabuli_Chr04	33718355	TT	GG	GG	INTERGENIC			
SNP_28375_A_33718511	NC_021163.1	Ca_Kabuli_Chr04	33718511	CC	TT	TT	INTERGENIC			
SNP_28376_A_33719215	NC_021163.1	Ca_Kabuli_Chr04	33719215	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28377_A_33719243	NC_021163.1	Ca_Kabuli_Chr04	33719243	CC	AA	AA	INTERGENIC			
SNP_28378_A_33719502	NC_021163.1	Ca_Kabuli_Chr04	33719502	AA	GG	GG	INTERGENIC			
SNP_28379_A_33719553	NC_021163.1	Ca_Kabuli_Chr04	33719553	CC	GG	GG	INTERGENIC			
SNP_28380_A_33719576	NC_021163.1	Ca_Kabuli_Chr04	33719576	TT	AA	AA	INTERGENIC			
SNP_28381_A_33719687	NC_021163.1	Ca_Kabuli_Chr04	33719687	AA	GG	GG	INTERGENIC			
SNP_28382_A_33720042	NC_021163.1	Ca_Kabuli_Chr04	33720042	CC	TT	TT	INTERGENIC			
SNP_28383_A_33720303	NC_021163.1	Ca_Kabuli_Chr04	33720303	CC	AA	AA	INTERGENIC			
SNP_28384_A_33720513	NC_021163.1	Ca_Kabuli_Chr04	33720513	AA	CC	CC	INTERGENIC			
SNP_28385_A_33720742	NC_021163.1	Ca_Kabuli_Chr04	33720742	AA	CC	CC	INTERGENIC			
SNP_28386_A_33721019	NC_021163.1	Ca_Kabuli_Chr04	33721019	TT	AA	AA	INTERGENIC			
SNP_28387_A_33721381	NC_021163.1	Ca_Kabuli_Chr04	33721381	AA	TT	TT	INTERGENIC			
SNP_28388_A_33721404	NC_021163.1	Ca_Kabuli_Chr04	33721404	TT	AA	AA	INTERGENIC			
SNP_28389_A_33721410	NC_021163.1	Ca_Kabuli_Chr04	33721410	AA	GG	GG	INTERGENIC			
SNP_28390_A_33721483	NC_021163.1	Ca_Kabuli_Chr04	33721483	GG	AA	AA	INTERGENIC			
SNP_28391_A_33721536	NC_021163.1	Ca_Kabuli_Chr04	33721536	CC	TT	TT	INTERGENIC			
SNP_28392_A_33721846	NC_021163.1	Ca_Kabuli_Chr04	33721846	GG	AA	AA	INTERGENIC			
SNP_28393_A_33721975	NC_021163.1	Ca_Kabuli_Chr04	33721975	GG	AA	AA	INTERGENIC			
SNP_28394_A_33721990	NC_021163.1	Ca_Kabuli_Chr04	33721990	TT	CC	CC	INTERGENIC			
SNP_28395_A_33722064	NC_021163.1	Ca_Kabuli_Chr04	33722064	TT	CC	CC	INTERGENIC			
SNP_28396_A_33722159	NC_021163.1	Ca_Kabuli_Chr04	33722159	GG	CC	CC	INTERGENIC			
SNP_28397_A_33722277	NC_021163.1	Ca_Kabuli_Chr04	33722277	TT	AA	AA	INTERGENIC			
SNP_28398_A_33733178	NC_021163.1	Ca_Kabuli_Chr04	33733178	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28399_A_33734041	NC_021163.1	Ca_Kabuli_Chr04	33734041	CC	TT	TT	INTERGENIC		
SNP_28400_A_33736859	NC_021163.1	Ca_Kabuli_Chr04	33736859	GG	AA	AA	INTERGENIC		
SNP_28404_A_33743686	NC_021163.1	Ca_Kabuli_Chr04	33743686	AA	GG	GG	INTERGENIC		
SNP_28405_A_33743732	NC_021163.1	Ca_Kabuli_Chr04	33743732	AA	TT	TT	INTERGENIC		
SNP_28406_A_33744839	NC_021163.1	Ca_Kabuli_Chr04	33744839	TT	CC	CC	INTERGENIC		
SNP_28407_A_33746987	NC_021163.1	Ca_Kabuli_Chr04	33746987	AA	TT	TT	INTERGENIC		
SNP_28409_A_33747360	NC_021163.1	Ca_Kabuli_Chr04	33747360	CC	TT	TT	INTERGENIC		
SNP_28410_A_33747366	NC_021163.1	Ca_Kabuli_Chr04	33747366	CC	GG	GG	INTERGENIC		
SNP_28411_A_33750122	NC_021163.1	Ca_Kabuli_Chr04	33750122	AA	GG	GG	DRR	101505998	zinc finger MYM-type protein 1-like
SNP_28412_A_33751570	NC_021163.1	Ca_Kabuli_Chr04	33751570	GG	AA	AA	INTRON	101505998	zinc finger MYM-type protein 1-like
SNP_28413_A_33756706	NC_021163.1	Ca_Kabuli_Chr04	33756706	TT	GG	GG	INTERGENIC		
SNP_28414_A_33757300	NC_021163.1	Ca_Kabuli_Chr04	33757300	GG	AA	AA	INTERGENIC		
SNP_28415_A_33758612	NC_021163.1	Ca_Kabuli_Chr04	33758612	CC	TT	TT	INTERGENIC		
SNP_28416_A_33760231	NC_021163.1	Ca_Kabuli_Chr04	33760231	AA	GG	GG	INTERGENIC		
SNP_28417_A_33760426	NC_021163.1	Ca_Kabuli_Chr04	33760426	AA	GG	GG	INTERGENIC		
SNP_28418_A_33760484	NC_021163.1	Ca_Kabuli_Chr04	33760484	GG	TT	TT	INTERGENIC		
SNP_28419_A_33771388	NC_021163.1	Ca_Kabuli_Chr04	33771388	CC	TT	TT	INTRON	101506631	Unknown function
SNP_28420_A_33775530	NC_021163.1	Ca_Kabuli_Chr04	33775530	TT	GG	GG	NON_SYNONYMOUS_CODING	101507292	Unknown function
SNP_28421_A_33776042	NC_021163.1	Ca_Kabuli_Chr04	33776042	AA	GG	GG	SYNONYMOUS_CODING	101507292	Unknown function
SNP_28422_A_33776070	NC_021163.1	Ca_Kabuli_Chr04	33776070	AA	GG	GG	URR	101507292	Unknown function
SNP_28423_A_33776568	NC_021163.1	Ca_Kabuli_Chr04	33776568	GG	AA	AA	URR	101507292	Unknown function
SNP_28424_A_33777582	NC_021163.1	Ca_Kabuli_Chr04	33777582	TT	GG	GG	URR	101507292	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28425_A_33777860	NC_021163.1	Ca_Kabuli_Chr04	33777860	TT	GG	GG	URR	101507292	Unknown function
SNP_28426_A_33779429	NC_021163.1	Ca_Kabuli_Chr04	33779429	GG	AA	AA	INTERGENIC		
SNP_28427_A_33779430	NC_021163.1	Ca_Kabuli_Chr04	33779430	AA	GG	GG	INTERGENIC		
SNP_28428_A_33782846	NC_021163.1	Ca_Kabuli_Chr04	33782846	GG	AA	AA	URR	101507598	alkane hydroxylase MAH1
SNP_28431_A_33796584	NC_021163.1	Ca_Kabuli_Chr04	33796584	GG	TT	TT	INTERGENIC		
SNP_28432_A_33800789	NC_021163.1	Ca_Kabuli_Chr04	33800789	GG	TT	TT	INTERGENIC		
SNP_28433_A_33801598	NC_021163.1	Ca_Kabuli_Chr04	33801598	CC	AA	AA	INTERGENIC		
SNP_28434_A_33802157	NC_021163.1	Ca_Kabuli_Chr04	33802157	AA	GG	GG	INTERGENIC		
SNP_28435_A_33804795	NC_021163.1	Ca_Kabuli_Chr04	33804795	GG	AA	AA	INTERGENIC		
SNP_28436_A_33805458	NC_021163.1	Ca_Kabuli_Chr04	33805458	TT	CC	CC	INTERGENIC		
SNP_28438_A_33807542	NC_021163.1	Ca_Kabuli_Chr04	33807542	AA	TT	TT	INTERGENIC		
SNP_28439_A_33807597	NC_021163.1	Ca_Kabuli_Chr04	33807597	AA	GG	GG	INTERGENIC		
SNP_28440_A_33808066	NC_021163.1	Ca_Kabuli_Chr04	33808066	GG	AA	AA	INTERGENIC		
SNP_28441_A_33810648	NC_021163.1	Ca_Kabuli_Chr04	33810648	TT	GG	GG	INTERGENIC		
SNP_28442_A_33810691	NC_021163.1	Ca_Kabuli_Chr04	33810691	AA	TT	TT	INTERGENIC		
SNP_28443_A_33810713	NC_021163.1	Ca_Kabuli_Chr04	33810713	AA	TT	TT	INTERGENIC		
SNP_28444_A_33810950	NC_021163.1	Ca_Kabuli_Chr04	33810950	GG	AA	AA	INTERGENIC		
SNP_28445_A_33811060	NC_021163.1	Ca_Kabuli_Chr04	33811060	AA	GG	GG	DRR	101508230	uncharacterized LOC101508230
SNP_28447_A_33814480	NC_021163.1	Ca_Kabuli_Chr04	33814480	TT	GG	GG	INTRON	101508230	uncharacterized LOC101508230
SNP_28448_A_33822204	NC_021163.1	Ca_Kabuli_Chr04	33822204	TT	AA	AA	DRR	101508552	probable L-type lectin-domain containing receptor kinase S.5
SNP_28451_A_33835189	NC_021163.1	Ca_Kabuli_Chr04	33835189	CC	TT	TT	URR	101500535	uncase-2 isozyme 1-like
SNP_28453_A_33837672	NC_021163.1	Ca_Kabuli_Chr04	33837672	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28454_A_33839138	NC_021163.1	Ca_Kabuli_Chr04	33839138	CC	TT	TT	INTERGENIC			
SNP_28455_A_33841511	NC_021163.1	Ca_Kabuli_Chr04	33841511	TT	CC	CC	INTERGENIC			
SNP_28456_A_33841715	NC_021163.1	Ca_Kabuli_Chr04	33841715	TT	CC	CC	INTERGENIC			
SNP_28457_A_33842809	NC_021163.1	Ca_Kabuli_Chr04	33842809	GG	AA	AA	INTERGENIC			
SNP_28458_A_33844805	NC_021163.1	Ca_Kabuli_Chr04	33844805	AA	CC	CC	INTERGENIC			
SNP_28459_A_33845123	NC_021163.1	Ca_Kabuli_Chr04	33845123	GG	AA	AA	INTERGENIC			
SNP_28460_A_33849400	NC_021163.1	Ca_Kabuli_Chr04	33849400	CC	TT	TT	INTERGENIC			
SNP_28461_A_33849651	NC_021163.1	Ca_Kabuli_Chr04	33849651	CC	TT	TT	INTERGENIC			
SNP_28462_A_33853391	NC_021163.1	Ca_Kabuli_Chr04	33853391	TT	AA	AA	INTERGENIC			
SNP_28463_A_33853402	NC_021163.1	Ca_Kabuli_Chr04	33853402	AA	TT	TT	INTERGENIC			
SNP_28464_A_33853438	NC_021163.1	Ca_Kabuli_Chr04	33853438	CC	TT	TT	INTERGENIC			
SNP_28465_A_33853439	NC_021163.1	Ca_Kabuli_Chr04	33853439	AA	GG	GG	INTERGENIC			
SNP_28466_A_33853792	NC_021163.1	Ca_Kabuli_Chr04	33853792	TT	CC	CC	INTERGENIC			
SNP_28468_A_33857976	NC_021163.1	Ca_Kabuli_Chr04	33857976	GG	AA	AA	INTERGENIC			
SNP_28469_A_33861472	NC_021163.1	Ca_Kabuli_Chr04	33861472	GG	CC	CC	INTERGENIC			
SNP_28470_A_33866416	NC_021163.1	Ca_Kabuli_Chr04	33866416	AA	GG	GG	INTERGENIC			
SNP_28471_A_33871111	NC_021163.1	Ca_Kabuli_Chr04	33871111	AA	GG	GG	INTERGENIC			
SNP_28472_A_33871350	NC_021163.1	Ca_Kabuli_Chr04	33871350	AA	GG	GG	INTERGENIC			
SNP_28473_A_33871356	NC_021163.1	Ca_Kabuli_Chr04	33871356	TT	CC	CC	INTERGENIC			
SNP_28474_A_33871358	NC_021163.1	Ca_Kabuli_Chr04	33871358	GG	AA	AA	INTERGENIC			
SNP_28475_A_33871368	NC_021163.1	Ca_Kabuli_Chr04	33871368	CC	TT	TT	INTERGENIC			
SNP_28476_A_33871451	NC_021163.1	Ca_Kabuli_Chr04	33871451	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28477_A_33871508	NC_021163.1	Ca_Kabuli_Chr04	33871508	AA	TT	TT	INTERGENIC		
SNP_28478_A_33871509	NC_021163.1	Ca_Kabuli_Chr04	33871509	CC	GG	GG	INTERGENIC		
SNP_28480_A_33871525	NC_021163.1	Ca_Kabuli_Chr04	33871525	CC	AA	AA	INTERGENIC		
SNP_28481_A_33871623	NC_021163.1	Ca_Kabuli_Chr04	33871623	AA	CC	CC	INTERGENIC		
SNP_28482_A_33871660	NC_021163.1	Ca_Kabuli_Chr04	33871660	GG	TT	TT	INTERGENIC		
SNP_28483_A_33873396	NC_021163.1	Ca_Kabuli_Chr04	33873396	AA	GG	GG	INTERGENIC		
SNP_28484_A_33873453	NC_021163.1	Ca_Kabuli_Chr04	33873453	TT	CC	CC	INTERGENIC		
SNP_28485_A_33879869	NC_021163.1	Ca_Kabuli_Chr04	33879869	GG	AA	AA	INTERGENIC		
SNP_28486_A_33886847	NC_021163.1	Ca_Kabuli_Chr04	33886847	CC	TT	TT	INTERGENIC		
SNP_28487_A_33887010	NC_021163.1	Ca_Kabuli_Chr04	33887010	AA	TT	TT	INTERGENIC		
SNP_28488_A_33895904	NC_021163.1	Ca_Kabuli_Chr04	33895904	CC	AA	AA	INTERGENIC		
SNP_28489_A_33908525	NC_021163.1	Ca_Kabuli_Chr04	33908525	CC	TT	TT	INTERGENIC		
SNP_28492_A_33927212	NC_021163.1	Ca_Kabuli_Chr04	33927212	GG	CC	CC	SYNONYMOUS_CODING	101501692	ubiquitin carboxyl-terminal hydrolase 12-like
SNP_28493_A_33931825	NC_021163.1	Ca_Kabuli_Chr04	33931825	TT	CC	CC	INTRON	101501692	ubiquitin carboxyl-terminal hydrolase 12-like
SNP_28494_A_33935950	NC_021163.1	Ca_Kabuli_Chr04	33935950	AA	CC	CC	INTRON	101501692	ubiquitin carboxyl-terminal hydrolase 12-like
SNP_28495_A_33936941	NC_021163.1	Ca_Kabuli_Chr04	33936941	CC	TT	TT	INTRON	101501692	ubiquitin carboxyl-terminal hydrolase 12-like
SNP_28496_A_33973071	NC_021163.1	Ca_Kabuli_Chr04	33973071	CC	TT	TT	INTERGENIC		
SNP_28497_A_33979532	NC_021163.1	Ca_Kabuli_Chr04	33979532	CC	TT	TT	INTERGENIC		
SNP_28498_A_33979914	NC_021163.1	Ca_Kabuli_Chr04	33979914	CC	TT	TT	INTERGENIC		
SNP_28499_A_33986213	NC_021163.1	Ca_Kabuli_Chr04	33986213	CC	TT	TT	INTERGENIC		
SNP_28500_A_33995329	NC_021163.1	Ca_Kabuli_Chr04	33995329	CC	TT	TT	INTERGENIC		
SNP_28501_A_34003493	NC_021163.1	Ca_Kabuli_Chr04	34003493	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28502_A_34010625	NC_021163.1	Ca_Kabuli_Chr04	34010625	CC	TT	TT	INTERGENIC			
SNP_28506_A_34040219	NC_021163.1	Ca_Kabuli_Chr04	34040219	AA	GG	GG	INTERGENIC			
SNP_28507_A_34052308	NC_021163.1	Ca_Kabuli_Chr04	34052308	TT	CC	CC	INTERGENIC			
SNP_28509_A_34078656	NC_021163.1	Ca_Kabuli_Chr04	34078656	AA	GG	GG	INTERGENIC			
SNP_28510_A_34078723	NC_021163.1	Ca_Kabuli_Chr04	34078723	TT	AA	AA	INTERGENIC			
SNP_28511_A_34082541	NC_021163.1	Ca_Kabuli_Chr04	34082541	TT	CC	CC	INTERGENIC			
SNP_28512_A_34082674	NC_021163.1	Ca_Kabuli_Chr04	34082674	CC	TT	TT	INTERGENIC			
SNP_28513_A_34088866	NC_021163.1	Ca_Kabuli_Chr04	34088866	AA	GG	GG	INTERGENIC			
SNP_28514_A_34092094	NC_021163.1	Ca_Kabuli_Chr04	34092094	GG	TT	TT	INTERGENIC			
SNP_28515_A_34093390	NC_021163.1	Ca_Kabuli_Chr04	34093390	GG	AA	AA	INTERGENIC			
SNP_28516_A_34094951	NC_021163.1	Ca_Kabuli_Chr04	34094951	AA	GG	GG	INTERGENIC			
SNP_28517_A_34095398	NC_021163.1	Ca_Kabuli_Chr04	34095398	TT	AA	AA	INTERGENIC			
SNP_28518_A_34097515	NC_021163.1	Ca_Kabuli_Chr04	34097515	AA	CC	CC	INTERGENIC			
SNP_28519_A_34120464	NC_021163.1	Ca_Kabuli_Chr04	34120464	CC	TT	TT	INTERGENIC			
SNP_28520_A_34126429	NC_021163.1	Ca_Kabuli_Chr04	34126429	AA	TT	TT	INTERGENIC			
SNP_28521_A_34126738	NC_021163.1	Ca_Kabuli_Chr04	34126738	AA	TT	TT	INTERGENIC			
SNP_28522_A_34152846	NC_021163.1	Ca_Kabuli_Chr04	34152846	AA	GG	GG	INTRON	101509840	Unknown function	
SNP_28523_A_34152859	NC_021163.1	Ca_Kabuli_Chr04	34152859	CC	TT	TT	INTRON	101509840	Unknown function	
SNP_28524_A_34156391	NC_021163.1	Ca_Kabuli_Chr04	34156391	CC	TT	TT	INTRON	101509840	Unknown function	
SNP_28525_A_34158344	NC_021163.1	Ca_Kabuli_Chr04	34158344	GG	AA	AA	URR	101509840	Unknown function	
SNP_28526_A_34161398	NC_021163.1	Ca_Kabuli_Chr04	34161398	CC	GG	GG	INTERGENIC			
SNP_28527_A_34161400	NC_021163.1	Ca_Kabuli_Chr04	34161400	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28528_A_34161476	NC_021163.1	Ca_Kabuli_Chr04	34161476	GG	AA	AA	INTERGENIC			
SNP_28529_A_34168193	NC_021163.1	Ca_Kabuli_Chr04	34168193	AA	GG	GG	INTERGENIC			
SNP_28531_A_34180208	NC_021163.1	Ca_Kabuli_Chr04	34180208	AA	TT	TT	INTERGENIC			
SNP_28532_A_34188494	NC_021163.1	Ca_Kabuli_Chr04	34188494	TT	CC	CC	INTERGENIC			
SNP_28533_A_34201060	NC_021163.1	Ca_Kabuli_Chr04	34201060	CC	TT	TT	INTERGENIC			
SNP_28534_A_34201856	NC_021163.1	Ca_Kabuli_Chr04	34201856	GG	AA	AA	INTERGENIC			
SNP_28535_A_34203096	NC_021163.1	Ca_Kabuli_Chr04	34203096	AA	GG	GG	INTERGENIC			
SNP_28536_A_34203130	NC_021163.1	Ca_Kabuli_Chr04	34203130	TT	CC	CC	INTERGENIC			
SNP_28537_A_34206349	NC_021163.1	Ca_Kabuli_Chr04	34206349	AA	GG	GG	INTERGENIC			
SNP_28538_A_34215265	NC_021163.1	Ca_Kabuli_Chr04	34215265	CC	TT	TT	INTERGENIC			
SNP_28539_A_34222156	NC_021163.1	Ca_Kabuli_Chr04	34222156	TT	AA	AA	INTERGENIC			
SNP_28540_A_34222537	NC_021163.1	Ca_Kabuli_Chr04	34222537	TT	CC	CC	INTERGENIC			
SNP_28541_A_34224273	NC_021163.1	Ca_Kabuli_Chr04	34224273	TT	CC	CC	INTERGENIC			
SNP_28542_A_34225229	NC_021163.1	Ca_Kabuli_Chr04	34225229	AA	GG	GG	INTERGENIC			
SNP_28544_A_34233421	NC_021163.1	Ca_Kabuli_Chr04	34233421	AA	TT	TT	URR	101503198	DNA mismatch repair protein MSH1, mitochondrial-like	
SNP_28545_A_34233462	NC_021163.1	Ca_Kabuli_Chr04	34233462	GG	CC	CC	URR	101503198	DNA mismatch repair protein MSH1, mitochondrial-like	
SNP_28546_A_34237505	NC_021163.1	Ca_Kabuli_Chr04	34237505	GG	TT	TT	INTERGENIC			
SNP_28547_A_34237535	NC_021163.1	Ca_Kabuli_Chr04	34237535	GG	TT	TT	INTERGENIC			
SNP_28548_A_34240005	NC_021163.1	Ca_Kabuli_Chr04	34240005	CC	GG	GG	INTERGENIC			
SNP_28550_A_34240408	NC_021163.1	Ca_Kabuli_Chr04	34240408	CC	TT	TT	INTERGENIC			
SNP_28551_A_34240727	NC_021163.1	Ca_Kabuli_Chr04	34240727	TT	AA	AA	INTERGENIC			
SNP_28552_A_34245322	NC_021163.1	Ca_Kabuli_Chr04	34245322	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28555_A_34257322	NC_021163.1	Ca_Kabuli_Chr04	34257322	TT	CC	CC	INTERGENIC		
SNP_28556_A_34266313	NC_021163.1	Ca_Kabuli_Chr04	34266313	AA	GG	GG	INTRON	101510473	uncharacterized LOC101510473
SNP_28557_A_34266328	NC_021163.1	Ca_Kabuli_Chr04	34266328	GG	AA	AA	INTRON	101510473	uncharacterized LOC101510473
SNP_28558_A_34266579	NC_021163.1	Ca_Kabuli_Chr04	34266579	TT	CC	CC	INTRON	101510473	uncharacterized LOC101510473
SNP_28559_A_34266588	NC_021163.1	Ca_Kabuli_Chr04	34266588	AA	TT	TT	INTRON	101510473	uncharacterized LOC101510473
SNP_28560_A_34271113	NC_021163.1	Ca_Kabuli_Chr04	34271113	TT	CC	CC	INTRON	101510473	uncharacterized LOC101510473
SNP_28561_A_34272520	NC_021163.1	Ca_Kabuli_Chr04	34272520	CC	TT	TT	INTRON	101510473	uncharacterized LOC101510473
SNP_28562_A_34280644	NC_021163.1	Ca_Kabuli_Chr04	34280644	CC	TT	TT	INTERGENIC		
SNP_28563_A_34283148	NC_021163.1	Ca_Kabuli_Chr04	34283148	AA	CC	CC	INTERGENIC		
SNP_28564_A_34286807	NC_021163.1	Ca_Kabuli_Chr04	34286807	CC	TT	TT	INTERGENIC		
SNP_28565_A_34287065	NC_021163.1	Ca_Kabuli_Chr04	34287065	TT	AA	AA	INTERGENIC		
SNP_28566_A_34291370	NC_021163.1	Ca_Kabuli_Chr04	34291370	CC	AA	AA	INTERGENIC		
SNP_28567_A_34301574	NC_021163.1	Ca_Kabuli_Chr04	34301574	CC	TT	TT	URR	101510802	uncharacterized LOC101510802
SNP_28568_A_34312150	NC_021163.1	Ca_Kabuli_Chr04	34312150	CC	TT	TT	INTRON	101503730	nuclear pore complex protein NUP1-like
SNP_28569_A_34319362	NC_021163.1	Ca_Kabuli_Chr04	34319362	AA	GG	GG	URR	101503730	nuclear pore complex protein NUP1-like
SNP_28571_A_34332957	NC_021163.1	Ca_Kabuli_Chr04	34332957	TT	CC	CC	INTERGENIC		
SNP_28572_A_34353857	NC_021163.1	Ca_Kabuli_Chr04	34353857	GG	CC	CC	INTRON	101505023	sucrose-phosphatase 1-like
SNP_28573_A_34369186	NC_021163.1	Ca_Kabuli_Chr04	34369186	CC	GG	GG	URR	101505023	sucrose-phosphatase 1-like
SNP_28574_A_34374353	NC_021163.1	Ca_Kabuli_Chr04	34374353	AA	TT	TT	INTERGENIC		
SNP_28577_A_34387715	NC_021163.1	Ca_Kabuli_Chr04	34387715	TT	CC	CC	INTERGENIC		
SNP_28578_A_34387803	NC_021163.1	Ca_Kabuli_Chr04	34387803	AA	CC	CC	INTERGENIC		
SNP_28579_A_34387924	NC_021163.1	Ca_Kabuli_Chr04	34387924	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28580_A_34387996	NC_021163.1	Ca_Kabuli_Chr04	34387996	TT	GG	GG	INTERGENIC		
SNP_28583_A_34389100	NC_021163.1	Ca_Kabuli_Chr04	34389100	AA	GG	GG	DRR	101511124	glycerol-3-phosphate 2-O-acyltransferase 6-like
SNP_28584_A_34401463	NC_021163.1	Ca_Kabuli_Chr04	34401463	GG	AA	AA	INTERGENIC		
SNP_28585_A_34409541	NC_021163.1	Ca_Kabuli_Chr04	34409541	AA	GG	GG	INTERGENIC		
SNP_28586_A_34414942	NC_021163.1	Ca_Kabuli_Chr04	34414942	GG	AA	AA	INTERGENIC		
SNP_28587_A_34415433	NC_021163.1	Ca_Kabuli_Chr04	34415433	GG	TT	TT	INTERGENIC		
SNP_28588_A_34420159	NC_021163.1	Ca_Kabuli_Chr04	34420159	AA	GG	GG	INTERGENIC		
SNP_28589_A_34421547	NC_021163.1	Ca_Kabuli_Chr04	34421547	AA	TT	TT	INTERGENIC		
SNP_28590_A_34421726	NC_021163.1	Ca_Kabuli_Chr04	34421726	CC	AA	AA	INTERGENIC		
SNP_28591_A_34423282	NC_021163.1	Ca_Kabuli_Chr04	34423282	CC	TT	TT	INTERGENIC		
SNP_28592_A_34430231	NC_021163.1	Ca_Kabuli_Chr04	34430231	AA	GG	GG	INTERGENIC		
SNP_28593_A_34430364	NC_021163.1	Ca_Kabuli_Chr04	34430364	AA	GG	GG	INTERGENIC		
SNP_28594_A_34431258	NC_021163.1	Ca_Kabuli_Chr04	34431258	CC	TT	TT	INTERGENIC		
SNP_28595_A_34442355	NC_021163.1	Ca_Kabuli_Chr04	34442355	TT	CC	CC	INTERGENIC		
SNP_28596_A_34442705	NC_021163.1	Ca_Kabuli_Chr04	34442705	TT	CC	CC	INTERGENIC		
SNP_28597_A_34446220	NC_021163.1	Ca_Kabuli_Chr04	34446220	TT	CC	CC	DRR	101511434	Unknown function
SNP_28598_A_34449078	NC_021163.1	Ca_Kabuli_Chr04	34449078	TT	AA	AA	NON_SYNONYMOUS_CODING	101511434	Unknown function
SNP_28599_A_34468114	NC_021163.1	Ca_Kabuli_Chr04	34468114	AA	CC	CC	INTERGENIC		
SNP_28600_A_34468315	NC_021163.1	Ca_Kabuli_Chr04	34468315	AA	GG	GG	INTERGENIC		
SNP_28601_A_34472342	NC_021163.1	Ca_Kabuli_Chr04	34472342	TT	CC	CC	INTERGENIC		
SNP_28605_A_34482247	NC_021163.1	Ca_Kabuli_Chr04	34482247	TT	CC	CC	INTRON	101505344	putative lipase YOR059C
SNP_28607_A_34493325	NC_021163.1	Ca_Kabuli_Chr04	34493325	CC	TT	TT	URR	101505344	putative lipase YOR059C

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28608_A_34503637	NC_021163.1	Ca_Kabuli_Chr04	34503637	CC	TT	TT	INTERGENIC			
SNP_28609_A_34503644	NC_021163.1	Ca_Kabuli_Chr04	34503644	AA	GG	GG	INTERGENIC			
SNP_28610_A_34503797	NC_021163.1	Ca_Kabuli_Chr04	34503797	CC	TT	TT	INTERGENIC			
SNP_28611_A_34515810	NC_021163.1	Ca_Kabuli_Chr04	34515810	TT	CC	CC	INTERGENIC			
SNP_28613_A_34520614	NC_021163.1	Ca_Kabuli_Chr04	34520614	TT	AA	AA	INTERGENIC			
SNP_28614_A_34520775	NC_021163.1	Ca_Kabuli_Chr04	34520775	AA	TT	TT	INTERGENIC			
SNP_28615_A_34520878	NC_021163.1	Ca_Kabuli_Chr04	34520878	TT	CC	CC	INTERGENIC			
SNP_28616_A_34520935	NC_021163.1	Ca_Kabuli_Chr04	34520935	TT	GG	GG	INTERGENIC			
SNP_28617_A_34525236	NC_021163.1	Ca_Kabuli_Chr04	34525236	TT	CC	CC	INTERGENIC			
SNP_28618_A_34526980	NC_021163.1	Ca_Kabuli_Chr04	34526980	AA	GG	GG	INTERGENIC			
SNP_28619_A_34527008	NC_021163.1	Ca_Kabuli_Chr04	34527008	AA	GG	GG	INTERGENIC			
SNP_28620_A_34527026	NC_021163.1	Ca_Kabuli_Chr04	34527026	AA	GG	GG	INTERGENIC			
SNP_28621_A_34566308	NC_021163.1	Ca_Kabuli_Chr04	34566308	TT	AA	AA	INTERGENIC			
SNP_28623_A_34566765	NC_021163.1	Ca_Kabuli_Chr04	34566765	AA	CC	CC	INTERGENIC			
SNP_28624_A_34566767	NC_021163.1	Ca_Kabuli_Chr04	34566767	CC	TT	TT	INTERGENIC			
SNP_28625_A_34582114	NC_021163.1	Ca_Kabuli_Chr04	34582114	CC	TT	TT	INTERGENIC			
SNP_28626_A_34586566	NC_021163.1	Ca_Kabuli_Chr04	34586566	AA	GG	GG	INTERGENIC			
SNP_28627_A_34586570	NC_021163.1	Ca_Kabuli_Chr04	34586570	AA	TT	TT	INTERGENIC			
SNP_28628_A_34586657	NC_021163.1	Ca_Kabuli_Chr04	34586657	TT	GG	GG	INTERGENIC			
SNP_28629_A_34586668	NC_021163.1	Ca_Kabuli_Chr04	34586668	AA	CC	CC	INTERGENIC			
SNP_28630_A_34586669	NC_021163.1	Ca_Kabuli_Chr04	34586669	TT	AA	AA	INTERGENIC			
SNP_28631_A_34586683	NC_021163.1	Ca_Kabuli_Chr04	34586683	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28632_A_34586762	NC_021163.1	Ca_Kabuli_Chr04	34586762	CC	TT	TT	INTERGENIC			
SNP_28633_A_34586792	NC_021163.1	Ca_Kabuli_Chr04	34586792	TT	AA	AA	INTERGENIC			
SNP_28634_A_34587220	NC_021163.1	Ca_Kabuli_Chr04	34587220	TT	AA	AA	INTERGENIC			
SNP_28635_A_34587221	NC_021163.1	Ca_Kabuli_Chr04	34587221	CC	AA	AA	INTERGENIC			
SNP_28636_A_34588666	NC_021163.1	Ca_Kabuli_Chr04	34588666	AA	GG	GG	INTERGENIC			
SNP_28637_A_34588670	NC_021163.1	Ca_Kabuli_Chr04	34588670	GG	AA	AA	INTERGENIC			
SNP_28638_A_34588673	NC_021163.1	Ca_Kabuli_Chr04	34588673	CC	GG	GG	INTERGENIC			
SNP_28639_A_34588696	NC_021163.1	Ca_Kabuli_Chr04	34588696	GG	CC	CC	INTERGENIC			
SNP_28640_A_34588959	NC_021163.1	Ca_Kabuli_Chr04	34588959	GG	TT	TT	INTERGENIC			
SNP_28641_A_34588960	NC_021163.1	Ca_Kabuli_Chr04	34588960	TT	CC	CC	INTERGENIC			
SNP_28642_A_34590430	NC_021163.1	Ca_Kabuli_Chr04	34590430	TT	CC	CC	INTERGENIC			
SNP_28643_A_34590446	NC_021163.1	Ca_Kabuli_Chr04	34590446	TT	CC	CC	INTERGENIC			
SNP_28644_A_34590510	NC_021163.1	Ca_Kabuli_Chr04	34590510	TT	AA	AA	INTERGENIC			
SNP_28645_A_34590511	NC_021163.1	Ca_Kabuli_Chr04	34590511	AA	GG	GG	INTERGENIC			
SNP_28646_A_34590757	NC_021163.1	Ca_Kabuli_Chr04	34590757	GG	CC	CC	INTERGENIC			
SNP_28647_A_34590761	NC_021163.1	Ca_Kabuli_Chr04	34590761	AA	GG	GG	INTERGENIC			
SNP_28648_A_34590806	NC_021163.1	Ca_Kabuli_Chr04	34590806	CC	AA	AA	INTERGENIC			
SNP_28649_A_34598732	NC_021163.1	Ca_Kabuli_Chr04	34598732	TT	GG	GG	INTERGENIC			
SNP_28650_A_34598904	NC_021163.1	Ca_Kabuli_Chr04	34598904	AA	TT	TT	INTERGENIC			
SNP_28651_A_34598994	NC_021163.1	Ca_Kabuli_Chr04	34598994	AA	GG	GG	INTERGENIC			
SNP_28653_A_34599239	NC_021163.1	Ca_Kabuli_Chr04	34599239	GG	CC	CC	INTERGENIC			
SNP_28654_A_34601854	NC_021163.1	Ca_Kabuli_Chr04	34601854	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28655_A_34601884	NC_021163.1	Ca_Kabuli_Chr04	34601884	GG	TT	TT	INTERGENIC		
SNP_28656_A_34614429	NC_021163.1	Ca_Kabuli_Chr04	34614429	AA	TT	TT	INTERGENIC		
SNP_28657_A_34664986	NC_021163.1	Ca_Kabuli_Chr04	34664986	AA	GG	GG	INTERGENIC		
SNP_28658_A_34683645	NC_021163.1	Ca_Kabuli_Chr04	34683645	GG	AA	AA	INTERGENIC		
SNP_28659_A_34683690	NC_021163.1	Ca_Kabuli_Chr04	34683690	TT	CC	CC	INTERGENIC		
SNP_28660_A_34683694	NC_021163.1	Ca_Kabuli_Chr04	34683694	GG	AA	AA	INTERGENIC		
SNP_28661_A_34704249	NC_021163.1	Ca_Kabuli_Chr04	34704249	CC	GG	GG	INTERGENIC		
SNP_28662_A_34712359	NC_021163.1	Ca_Kabuli_Chr04	34712359	TT	AA	AA	INTERGENIC		
SNP_28663_A_34712524	NC_021163.1	Ca_Kabuli_Chr04	34712524	TT	CC	CC	INTERGENIC		
SNP_28664_A_34712553	NC_021163.1	Ca_Kabuli_Chr04	34712553	TT	CC	CC	INTERGENIC		
SNP_28665_A_34712771	NC_021163.1	Ca_Kabuli_Chr04	34712771	AA	CC	CC	INTERGENIC		
SNP_28666_A_34712775	NC_021163.1	Ca_Kabuli_Chr04	34712775	GG	CC	CC	INTERGENIC		
SNP_28667_A_34731645	NC_021163.1	Ca_Kabuli_Chr04	34731645	AA	GG	GG	INTERGENIC		
SNP_28668_A_34774008	NC_021163.1	Ca_Kabuli_Chr04	34774008	AA	TT	TT	INTERGENIC		
SNP_28669_A_34833971	NC_021163.1	Ca_Kabuli_Chr04	34833971	AA	GG	GG	INTERGENIC		
SNP_28670_A_34834395	NC_021163.1	Ca_Kabuli_Chr04	34834395	TT	CC	CC	INTERGENIC		
SNP_28671_A_34834565	NC_021163.1	Ca_Kabuli_Chr04	34834565	TT	CC	CC	INTERGENIC		
SNP_28672_A_34834569	NC_021163.1	Ca_Kabuli_Chr04	34834569	AA	GG	GG	INTERGENIC		
SNP_28673_A_34834582	NC_021163.1	Ca_Kabuli_Chr04	34834582	CC	AA	AA	INTERGENIC		
SNP_28674_A_34883315	NC_021163.1	Ca_Kabuli_Chr04	34883315	TT	CC	CC	INTRON	101493952	Unknown function
SNP_28675_A_34883316	NC_021163.1	Ca_Kabuli_Chr04	34883316	TT	CC	CC	INTRON	101493952	Unknown function
SNP_28676_A_34883320	NC_021163.1	Ca_Kabuli_Chr04	34883320	CC	TT	TT	INTRON	101493952	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28677_A_34883366	NC_021163.1	Ca_Kabuli_Chr04	34883366	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28678_A_34883461	NC_021163.1	Ca_Kabuli_Chr04	34883461	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28679_A_34883508	NC_021163.1	Ca_Kabuli_Chr04	34883508	TT	GG	GG	INTRON		101493952	Unknown function
SNP_28680_A_34883519	NC_021163.1	Ca_Kabuli_Chr04	34883519	TT	CC	CC	INTRON		101493952	Unknown function
SNP_28681_A_34883526	NC_021163.1	Ca_Kabuli_Chr04	34883526	TT	CC	CC	INTRON		101493952	Unknown function
SNP_28682_A_34883528	NC_021163.1	Ca_Kabuli_Chr04	34883528	CC	TT	TT	INTRON		101493952	Unknown function
SNP_28683_A_34883539	NC_021163.1	Ca_Kabuli_Chr04	34883539	TT	CC	CC	INTRON		101493952	Unknown function
SNP_28684_A_34883620	NC_021163.1	Ca_Kabuli_Chr04	34883620	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28685_A_34883627	NC_021163.1	Ca_Kabuli_Chr04	34883627	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28686_A_34883652	NC_021163.1	Ca_Kabuli_Chr04	34883652	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28687_A_34883678	NC_021163.1	Ca_Kabuli_Chr04	34883678	CC	TT	TT	INTRON		101493952	Unknown function
SNP_28688_A_34883724	NC_021163.1	Ca_Kabuli_Chr04	34883724	AA	CC	CC	INTRON		101493952	Unknown function
SNP_28689_A_34883727	NC_021163.1	Ca_Kabuli_Chr04	34883727	TT	AA	AA	INTRON		101493952	Unknown function
SNP_28690_A_34883734	NC_021163.1	Ca_Kabuli_Chr04	34883734	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28691_A_34883750	NC_021163.1	Ca_Kabuli_Chr04	34883750	TT	AA	AA	INTRON		101493952	Unknown function
SNP_28692_A_34883768	NC_021163.1	Ca_Kabuli_Chr04	34883768	GG	AA	AA	INTRON		101493952	Unknown function
SNP_28693_A_34883796	NC_021163.1	Ca_Kabuli_Chr04	34883796	TT	GG	GG	INTRON		101493952	Unknown function
SNP_28694_A_34883858	NC_021163.1	Ca_Kabuli_Chr04	34883858	AA	GG	GG	INTRON		101493952	Unknown function
SNP_28695_A_34883885	NC_021163.1	Ca_Kabuli_Chr04	34883885	TT	AA	AA	DRR		101494279	Unknown function
SNP_28696_A_34883887	NC_021163.1	Ca_Kabuli_Chr04	34883887	TT	CC	CC	DRR		101494279	Unknown function
SNP_28697_A_34883893	NC_021163.1	Ca_Kabuli_Chr04	34883893	TT	AA	AA	DRR		101494279	Unknown function
SNP_28698_A_34883941	NC_021163.1	Ca_Kabuli_Chr04	34883941	CC	AA	AA	DRR		101494279	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28699_A_34883945	NC_021163.1	Ca_Kabuli_Chr04	34883945	GG	AA	AA	DRR	101494279	Unknown function
SNP_28700_A_34883960	NC_021163.1	Ca_Kabuli_Chr04	34883960	AA	GG	GG	DRR	101494279	Unknown function
SNP_28701_A_34883965	NC_021163.1	Ca_Kabuli_Chr04	34883965	TT	GG	GG	DRR	101494279	Unknown function
SNP_28702_A_34883996	NC_021163.1	Ca_Kabuli_Chr04	34883996	AA	TT	TT	DRR	101494279	Unknown function
SNP_28703_A_34884646	NC_021163.1	Ca_Kabuli_Chr04	34884646	TT	CC	CC	DRR	101494279	Unknown function
SNP_28704_A_34884737	NC_021163.1	Ca_Kabuli_Chr04	34884737	AA	TT	TT	DRR	101494279	Unknown function
SNP_28705_A_34897889	NC_021163.1	Ca_Kabuli_Chr04	34897889	GG	CC	CC	INTERGENIC		
SNP_28706_A_34910402	NC_021163.1	Ca_Kabuli_Chr04	34910402	CC	TT	TT	INTERGENIC		
SNP_28707_A_34910846	NC_021163.1	Ca_Kabuli_Chr04	34910846	AA	GG	GG	INTERGENIC		
SNP_28708_A_34912961	NC_021163.1	Ca_Kabuli_Chr04	34912961	CC	TT	TT	INTERGENIC		
SNP_28709_A_34912990	NC_021163.1	Ca_Kabuli_Chr04	34912990	TT	CC	CC	INTERGENIC		
SNP_28710_A_34913083	NC_021163.1	Ca_Kabuli_Chr04	34913083	AA	GG	GG	INTERGENIC		
SNP_28711_A_34937139	NC_021163.1	Ca_Kabuli_Chr04	34937139	GG	AA	AA	INTERGENIC		
SNP_28712_A_34937644	NC_021163.1	Ca_Kabuli_Chr04	34937644	CC	TT	TT	INTERGENIC		
SNP_28713_A_34955174	NC_021163.1	Ca_Kabuli_Chr04	34955174	GG	TT	TT	INTERGENIC		
SNP_28714_A_35002930	NC_021163.1	Ca_Kabuli_Chr04	35002930	TT	CC	CC	INTERGENIC		
SNP_28715_A_35043751	NC_021163.1	Ca_Kabuli_Chr04	35043751	CC	TT	TT	INTERGENIC		
SNP_28716_A_35053421	NC_021163.1	Ca_Kabuli_Chr04	35053421	GG	AA	AA	INTRON	101489300	probable protein arginine N-methyltransferase 6
SNP_28717_A_35077593	NC_021163.1	Ca_Kabuli_Chr04	35077593	CC	AA	AA	INTERGENIC		
SNP_28718_A_35083657	NC_021163.1	Ca_Kabuli_Chr04	35083657	GG	TT	TT	INTERGENIC		
SNP_28719_A_35092096	NC_021163.1	Ca_Kabuli_Chr04	35092096	TT	AA	AA	INTERGENIC		
SNP_28720_A_35111353	NC_021163.1	Ca_Kabuli_Chr04	35111353	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28721_A_35114825	NC_021163.1	Ca_Kabuli_Chr04	35114825	AA	CC	CC	INTERGENIC		
SNP_28722_A_35115012	NC_021163.1	Ca_Kabuli_Chr04	35115012	CC	AA	AA	INTERGENIC		
SNP_28723_A_35115086	NC_021163.1	Ca_Kabuli_Chr04	35115086	TT	CC	CC	INTERGENIC		
SNP_28724_A_35115181	NC_021163.1	Ca_Kabuli_Chr04	35115181	TT	CC	CC	INTERGENIC		
SNP_28725_A_35115209	NC_021163.1	Ca_Kabuli_Chr04	35115209	GG	AA	AA	INTERGENIC		
SNP_28726_A_35139446	NC_021163.1	Ca_Kabuli_Chr04	35139446	AA	TT	TT	DRR	101495231	endoglucanase 14-like
SNP_28727_A_35143733	NC_021163.1	Ca_Kabuli_Chr04	35143733	AA	GG	GG	URR	101495231	endoglucanase 14-like
SNP_28728_A_35151300	NC_021163.1	Ca_Kabuli_Chr04	35151300	CC	TT	TT	INTERGENIC		
SNP_28729_A_35185386	NC_021163.1	Ca_Kabuli_Chr04	35185386	CC	TT	TT	INTERGENIC		
SNP_28730_A_35187464	NC_021163.1	Ca_Kabuli_Chr04	35187464	AA	GG	GG	INTERGENIC		
SNP_28731_A_35187517	NC_021163.1	Ca_Kabuli_Chr04	35187517	AA	TT	TT	INTERGENIC		
SNP_28732_A_35187536	NC_021163.1	Ca_Kabuli_Chr04	35187536	AA	TT	TT	INTERGENIC		
SNP_28733_A_35194805	NC_021163.1	Ca_Kabuli_Chr04	35194805	GG	AA	AA	INTERGENIC		
SNP_28734_A_35194807	NC_021163.1	Ca_Kabuli_Chr04	35194807	AA	TT	TT	INTERGENIC		
SNP_28735_A_35194809	NC_021163.1	Ca_Kabuli_Chr04	35194809	CC	AA	AA	INTERGENIC		
SNP_28737_A_35257617	NC_021163.1	Ca_Kabuli_Chr04	35257617	CC	AA	AA	INTRON	101495549	Unknown function
SNP_28738_A_35258030	NC_021163.1	Ca_Kabuli_Chr04	35258030	AA	CC	CC	INTRON	101495549	Unknown function
SNP_28739_A_35263301	NC_021163.1	Ca_Kabuli_Chr04	35263301	CC	TT	TT	INTERGENIC		
SNP_28740_A_35279705	NC_021163.1	Ca_Kabuli_Chr04	35279705	CC	TT	TT	INTERGENIC		
SNP_28741_A_35284433	NC_021163.1	Ca_Kabuli_Chr04	35284433	TT	AA	AA	INTERGENIC		
SNP_28743_A_35303884	NC_021163.1	Ca_Kabuli_Chr04	35303884	CC	AA	AA	NON_SYNONYMOUS_CODING	101491762	uncharacterized LOC101491762
SNP_28745_A_35320735	NC_021163.1	Ca_Kabuli_Chr04	35320735	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28746_A_35329300	NC_021163.1	Ca_Kabuli_Chr04	35329300	AA	CC	CC	NON_SYNONYMOUS_CODING	101492317	myosin-1-like
SNP_28747_A_35342329	NC_021163.1	Ca_Kabuli_Chr04	35342329	CC	TT	TT	INTRON	101492317	myosin-1-like
SNP_28748_A_35342386	NC_021163.1	Ca_Kabuli_Chr04	35342386	GG	AA	AA	INTRON	101492317	myosin-1-like
SNP_28749_A_35342701	NC_021163.1	Ca_Kabuli_Chr04	35342701	CC	TT	TT	INTRON	101492317	myosin-1-like
SNP_28750_A_35342724	NC_021163.1	Ca_Kabuli_Chr04	35342724	AA	GG	GG	INTRON	101492317	myosin-1-like
SNP_28751_A_35342858	NC_021163.1	Ca_Kabuli_Chr04	35342858	TT	CC	CC	INTRON	101492317	myosin-1-like
SNP_28753_A_35343917	NC_021163.1	Ca_Kabuli_Chr04	35343917	CC	TT	TT	INTRON	101492317	myosin-1-like
SNP_28754_A_35343974	NC_021163.1	Ca_Kabuli_Chr04	35343974	CC	TT	TT	INTRON	101492317	myosin-1-like
SNP_28755_A_35349896	NC_021163.1	Ca_Kabuli_Chr04	35349896	TT	GG	GG	URR	101492317	myosin-1-like
SNP_28756_A_35349898	NC_021163.1	Ca_Kabuli_Chr04	35349898	TT	CC	CC	URR	101492317	myosin-1-like
SNP_28757_A_35369564	NC_021163.1	Ca_Kabuli_Chr04	35369564	TT	GG	GG	INTERGENIC		
SNP_28758_A_35369722	NC_021163.1	Ca_Kabuli_Chr04	35369722	TT	CC	CC	INTERGENIC		
SNP_28760_A_35430241	NC_021163.1	Ca_Kabuli_Chr04	35430241	GG	AA	AA	INTERGENIC		
SNP_28761_A_35430317	NC_021163.1	Ca_Kabuli_Chr04	35430317	GG	AA	AA	INTERGENIC		
SNP_28762_A_35430892	NC_021163.1	Ca_Kabuli_Chr04	35430892	TT	AA	AA	INTERGENIC		
SNP_28763_A_35430948	NC_021163.1	Ca_Kabuli_Chr04	35430948	TT	CC	CC	INTERGENIC		
SNP_28764_A_35431031	NC_021163.1	Ca_Kabuli_Chr04	35431031	AA	GG	GG	INTERGENIC		
SNP_28765_A_35431538	NC_021163.1	Ca_Kabuli_Chr04	35431538	AA	CC	CC	INTERGENIC		
SNP_28766_A_35431567	NC_021163.1	Ca_Kabuli_Chr04	35431567	CC	GG	GG	INTERGENIC		
SNP_28767_A_35431680	NC_021163.1	Ca_Kabuli_Chr04	35431680	CC	AA	AA	INTERGENIC		
SNP_28768_A_35431816	NC_021163.1	Ca_Kabuli_Chr04	35431816	CC	TT	TT	INTERGENIC		
SNP_28769_A_35431897	NC_021163.1	Ca_Kabuli_Chr04	35431897	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28770_A_35431910	NC_021163.1	Ca_Kabuli_Chr04	35431910	AA	GG	GG	INTERGENIC			
SNP_28771_A_35431944	NC_021163.1	Ca_Kabuli_Chr04	35431944	CC	AA	AA	INTERGENIC			
SNP_28772_A_35431977	NC_021163.1	Ca_Kabuli_Chr04	35431977	TT	CC	CC	INTERGENIC			
SNP_28773_A_35431995	NC_021163.1	Ca_Kabuli_Chr04	35431995	CC	TT	TT	INTERGENIC			
SNP_28775_A_35432022	NC_021163.1	Ca_Kabuli_Chr04	35432022	GG	AA	AA	INTERGENIC			
SNP_28776_A_35432082	NC_021163.1	Ca_Kabuli_Chr04	35432082	GG	AA	AA	INTERGENIC			
SNP_28777_A_35432335	NC_021163.1	Ca_Kabuli_Chr04	35432335	AA	GG	GG	INTERGENIC			
SNP_28778_A_35432465	NC_021163.1	Ca_Kabuli_Chr04	35432465	GG	AA	AA	INTERGENIC			
SNP_28779_A_35432506	NC_021163.1	Ca_Kabuli_Chr04	35432506	TT	CC	CC	INTERGENIC			
SNP_28780_A_35432513	NC_021163.1	Ca_Kabuli_Chr04	35432513	GG	CC	CC	INTERGENIC			
SNP_28781_A_35432547	NC_021163.1	Ca_Kabuli_Chr04	35432547	TT	CC	CC	INTERGENIC			
SNP_28782_A_35432552	NC_021163.1	Ca_Kabuli_Chr04	35432552	GG	AA	AA	INTERGENIC			
SNP_28783_A_35432599	NC_021163.1	Ca_Kabuli_Chr04	35432599	GG	TT	TT	INTERGENIC			
SNP_28784_A_35432683	NC_021163.1	Ca_Kabuli_Chr04	35432683	TT	GG	GG	INTERGENIC			
SNP_28785_A_35432763	NC_021163.1	Ca_Kabuli_Chr04	35432763	TT	GG	GG	INTERGENIC			
SNP_28786_A_35432814	NC_021163.1	Ca_Kabuli_Chr04	35432814	CC	TT	TT	INTERGENIC			
SNP_28787_A_35432824	NC_021163.1	Ca_Kabuli_Chr04	35432824	GG	AA	AA	INTERGENIC			
SNP_28789_A_35432884	NC_021163.1	Ca_Kabuli_Chr04	35432884	TT	GG	GG	INTERGENIC			
SNP_28790_A_35433183	NC_021163.1	Ca_Kabuli_Chr04	35433183	GG	TT	TT	INTERGENIC			
SNP_28791_A_35446156	NC_021163.1	Ca_Kabuli_Chr04	35446156	TT	AA	AA	INTERGENIC			
SNP_28792_A_35452728	NC_021163.1	Ca_Kabuli_Chr04	35452728	AA	CC	CC	DRR	101495879	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like	
SNP_28793_A_35453583	NC_021163.1	Ca_Kabuli_Chr04	35453583	TT	CC	CC	NON_SYNONYMOUS_CODING	101495879	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28794_A_35453584	NC_021163.1	Ca_Kabuli_Chr04	35453584	CC	GG	GG	NON_SYNONYMOUS_CODING	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28795_A_35453631	NC_021163.1	Ca_Kabuli_Chr04	35453631	GG	AA	AA	NON_SYNONYMOUS_CODING	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28796_A_35454842	NC_021163.1	Ca_Kabuli_Chr04	35454842	CC	AA	AA	SYNONYMOUS_CODING	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28797_A_35454883	NC_021163.1	Ca_Kabuli_Chr04	35454883	CC	AA	AA	NON_SYNONYMOUS_CODING	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28798_A_35455062	NC_021163.1	Ca_Kabuli_Chr04	35455062	TT	AA	AA	INTRON	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28800_A_35457119	NC_021163.1	Ca_Kabuli_Chr04	35457119	TT	AA	AA	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28801_A_35457161	NC_021163.1	Ca_Kabuli_Chr04	35457161	GG	TT	TT	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28802_A_35457316	NC_021163.1	Ca_Kabuli_Chr04	35457316	TT	CC	CC	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28803_A_35457511	NC_021163.1	Ca_Kabuli_Chr04	35457511	CC	GG	GG	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28804_A_35457613	NC_021163.1	Ca_Kabuli_Chr04	35457613	AA	CC	CC	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28805_A_35457639	NC_021163.1	Ca_Kabuli_Chr04	35457639	TT	AA	AA	URR	101495879	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_28806_A_35462130	NC_021163.1	Ca_Kabuli_Chr04	35462130	TT	AA	AA	INTERGENIC		
SNP_28807_A_35462202	NC_021163.1	Ca_Kabuli_Chr04	35462202	TT	GG	GG	INTERGENIC		
SNP_28808_A_35469224	NC_021163.1	Ca_Kabuli_Chr04	35469224	TT	CC	CC	SYNONYMOUS_CODING	101496213	sugar transport protein 10-like
SNP_28809_A_35469304	NC_021163.1	Ca_Kabuli_Chr04	35469304	GG	AA	AA	NON_SYNONYMOUS_CODING	101496213	sugar transport protein 10-like
SNP_28810_A_35469394	NC_021163.1	Ca_Kabuli_Chr04	35469394	CC	TT	TT	NON_SYNONYMOUS_CODING	101496213	sugar transport protein 10-like
SNP_28811_A_35469506	NC_021163.1	Ca_Kabuli_Chr04	35469506	CC	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28812_A_35469609	NC_021163.1	Ca_Kabuli_Chr04	35469609	CC	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28813_A_35469667	NC_021163.1	Ca_Kabuli_Chr04	35469667	AA	CC	CC	URR	101496213	sugar transport protein 10-like
SNP_28814_A_35469740	NC_021163.1	Ca_Kabuli_Chr04	35469740	AA	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28815_A_35469741	NC_021163.1	Ca_Kabuli_Chr04	35469741	TT	GG	GG	URR	101496213	sugar transport protein 10-like
SNP_28816_A_35469851	NC_021163.1	Ca_Kabuli_Chr04	35469851	GG	AA	AA	URR	101496213	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28817_A_35469868	NC_021163.1	Ca_Kabuli_Chr04	35469868	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28818_A_35469894	NC_021163.1	Ca_Kabuli_Chr04	35469894	AA	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28819_A_35469930	NC_021163.1	Ca_Kabuli_Chr04	35469930	AA	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28820_A_35469972	NC_021163.1	Ca_Kabuli_Chr04	35469972	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28821_A_35470016	NC_021163.1	Ca_Kabuli_Chr04	35470016	AA	GG	GG	URR	101496213	sugar transport protein 10-like
SNP_28822_A_35470027	NC_021163.1	Ca_Kabuli_Chr04	35470027	CC	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28823_A_35470103	NC_021163.1	Ca_Kabuli_Chr04	35470103	TT	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28824_A_35470158	NC_021163.1	Ca_Kabuli_Chr04	35470158	GG	CC	CC	URR	101496213	sugar transport protein 10-like
SNP_28825_A_35470160	NC_021163.1	Ca_Kabuli_Chr04	35470160	TT	CC	CC	URR	101496213	sugar transport protein 10-like
SNP_28826_A_35470167	NC_021163.1	Ca_Kabuli_Chr04	35470167	CC	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28827_A_35470186	NC_021163.1	Ca_Kabuli_Chr04	35470186	TT	CC	CC	URR	101496213	sugar transport protein 10-like
SNP_28828_A_35470200	NC_021163.1	Ca_Kabuli_Chr04	35470200	CC	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28829_A_35470241	NC_021163.1	Ca_Kabuli_Chr04	35470241	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28830_A_35470291	NC_021163.1	Ca_Kabuli_Chr04	35470291	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28831_A_35470304	NC_021163.1	Ca_Kabuli_Chr04	35470304	TT	CC	CC	URR	101496213	sugar transport protein 10-like
SNP_28832_A_35470319	NC_021163.1	Ca_Kabuli_Chr04	35470319	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28833_A_35470390	NC_021163.1	Ca_Kabuli_Chr04	35470390	AA	TT	TT	URR	101496213	sugar transport protein 10-like
SNP_28834_A_35470398	NC_021163.1	Ca_Kabuli_Chr04	35470398	GG	AA	AA	URR	101496213	sugar transport protein 10-like
SNP_28835_A_35487121	NC_021163.1	Ca_Kabuli_Chr04	35487121	GG	AA	AA	NON_SYNONYMOUS_CODING	101496538	sugar transport protein 10-like
SNP_28836_A_35511873	NC_021163.1	Ca_Kabuli_Chr04	35511873	TT	CC	CC	INTRON	101497199	HAUS augmin-like complex subunit 3
SNP_28837_A_35511955	NC_021163.1	Ca_Kabuli_Chr04	35511955	GG	CC	CC	INTRON	101497199	HAUS augmin-like complex subunit 3
SNP_28838_A_35512303	NC_021163.1	Ca_Kabuli_Chr04	35512303	GG	AA	AA	INTRON	101497199	HAUS augmin-like complex subunit 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28839_A_35521739	NC_021163.1	Ca_Kabuli_Chr04	35521739	AA	TT	TT	INTRON	101497199	HAUS augmin-like complex subunit 3
SNP_28840_A_35521740	NC_021163.1	Ca_Kabuli_Chr04	35521740	TT	AA	AA	INTRON	101497199	HAUS augmin-like complex subunit 3
SNP_28841_A_3553928	NC_021163.1	Ca_Kabuli_Chr04	3553928	GG	AA	AA	INTERGENIC		
SNP_28842_A_3553949	NC_021163.1	Ca_Kabuli_Chr04	3553949	CC	TT	TT	INTERGENIC		
SNP_28843_A_35580332	NC_021163.1	Ca_Kabuli_Chr04	35580332	TT	GG	GG	INTERGENIC		
SNP_28844_A_35580336	NC_021163.1	Ca_Kabuli_Chr04	35580336	AA	GG	GG	INTERGENIC		
SNP_28845_A_35598746	NC_021163.1	Ca_Kabuli_Chr04	35598746	CC	TT	TT	INTERGENIC		
SNP_28846_A_35598781	NC_021163.1	Ca_Kabuli_Chr04	35598781	AA	GG	GG	INTERGENIC		
SNP_28847_A_35598847	NC_021163.1	Ca_Kabuli_Chr04	35598847	TT	CC	CC	INTERGENIC		
SNP_28848_A_35598861	NC_021163.1	Ca_Kabuli_Chr04	35598861	TT	GG	GG	INTERGENIC		
SNP_28849_A_35599144	NC_021163.1	Ca_Kabuli_Chr04	35599144	CC	TT	TT	INTERGENIC		
SNP_28850_A_35599151	NC_021163.1	Ca_Kabuli_Chr04	35599151	AA	GG	GG	INTERGENIC		
SNP_28851_A_35599167	NC_021163.1	Ca_Kabuli_Chr04	35599167	AA	GG	GG	INTERGENIC		
SNP_28852_A_35599188	NC_021163.1	Ca_Kabuli_Chr04	35599188	CC	TT	TT	INTERGENIC		
SNP_28853_A_35600793	NC_021163.1	Ca_Kabuli_Chr04	35600793	CC	TT	TT	INTERGENIC		
SNP_28854_A_35615895	NC_021163.1	Ca_Kabuli_Chr04	35615895	AA	GG	GG	INTERGENIC		
SNP_28856_A_35616942	NC_021163.1	Ca_Kabuli_Chr04	35616942	CC	AA	AA	INTERGENIC		
SNP_28857_A_35617112	NC_021163.1	Ca_Kabuli_Chr04	35617112	AA	GG	GG	INTERGENIC		
SNP_28858_A_35617119	NC_021163.1	Ca_Kabuli_Chr04	35617119	AA	GG	GG	INTERGENIC		
SNP_28859_A_35617122	NC_021163.1	Ca_Kabuli_Chr04	35617122	TT	CC	CC	INTERGENIC		
SNP_28860_A_35617195	NC_021163.1	Ca_Kabuli_Chr04	35617195	TT	CC	CC	INTERGENIC		
SNP_28863_A_35691584	NC_021163.1	Ca_Kabuli_Chr04	35691584	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28864_A_35691657	NC_021163.1	Ca_Kabuli_Chr04	35691657	CC	AA	AA	INTERGENIC			
SNP_28865_A_35695354	NC_021163.1	Ca_Kabuli_Chr04	35695354	GG	AA	AA	INTERGENIC			
SNP_28866_A_35695400	NC_021163.1	Ca_Kabuli_Chr04	35695400	CC	AA	AA	INTERGENIC			
SNP_28867_A_35695641	NC_021163.1	Ca_Kabuli_Chr04	35695641	AA	GG	GG	INTERGENIC			
SNP_28868_A_35695818	NC_021163.1	Ca_Kabuli_Chr04	35695818	CC	GG	GG	INTERGENIC			
SNP_28869_A_35708597	NC_021163.1	Ca_Kabuli_Chr04	35708597	CC	AA	AA	INTERGENIC			
SNP_28870_A_35708734	NC_021163.1	Ca_Kabuli_Chr04	35708734	AA	GG	GG	INTERGENIC			
SNP_28871_A_35708738	NC_021163.1	Ca_Kabuli_Chr04	35708738	GG	AA	AA	INTERGENIC			
SNP_28872_A_35711966	NC_021163.1	Ca_Kabuli_Chr04	35711966	TT	GG	GG	INTERGENIC			
SNP_28873_A_35711998	NC_021163.1	Ca_Kabuli_Chr04	35711998	TT	GG	GG	INTERGENIC			
SNP_28874_A_35712354	NC_021163.1	Ca_Kabuli_Chr04	35712354	AA	GG	GG	INTERGENIC			
SNP_28875_A_35712394	NC_021163.1	Ca_Kabuli_Chr04	35712394	AA	CC	CC	INTERGENIC			
SNP_28876_A_35767480	NC_021163.1	Ca_Kabuli_Chr04	35767480	AA	GG	GG	INTERGENIC			
SNP_28877_A_35768557	NC_021163.1	Ca_Kabuli_Chr04	35768557	AA	TT	TT	INTERGENIC			
SNP_28878_A_35768610	NC_021163.1	Ca_Kabuli_Chr04	35768610	AA	GG	GG	INTERGENIC			
SNP_28879_A_35779968	NC_021163.1	Ca_Kabuli_Chr04	35779968	TT	AA	AA	INTERGENIC			
SNP_28880_A_35779972	NC_021163.1	Ca_Kabuli_Chr04	35779972	AA	TT	TT	INTERGENIC			
SNP_28881_A_35780234	NC_021163.1	Ca_Kabuli_Chr04	35780234	CC	AA	AA	INTERGENIC			
SNP_28882_A_35780302	NC_021163.1	Ca_Kabuli_Chr04	35780302	TT	AA	AA	INTERGENIC			
SNP_28883_A_35780428	NC_021163.1	Ca_Kabuli_Chr04	35780428	GG	AA	AA	INTERGENIC			
SNP_28884_A_35780538	NC_021163.1	Ca_Kabuli_Chr04	35780538	CC	TT	TT	INTERGENIC			
SNP_28885_A_35780549	NC_021163.1	Ca_Kabuli_Chr04	35780549	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28886_A_35780671	NC_021163.1	Ca_Kabuli_Chr04	35780671	AA	GG	GG	INTERGENIC			
SNP_28887_A_35791340	NC_021163.1	Ca_Kabuli_Chr04	35791340	CC	GG	GG	INTERGENIC			
SNP_28888_A_35791401	NC_021163.1	Ca_Kabuli_Chr04	35791401	GG	AA	AA	INTERGENIC			
SNP_28889_A_35791482	NC_021163.1	Ca_Kabuli_Chr04	35791482	GG	TT	TT	INTERGENIC			
SNP_28890_A_35791567	NC_021163.1	Ca_Kabuli_Chr04	35791567	AA	TT	TT	INTERGENIC			
SNP_28891_A_35791676	NC_021163.1	Ca_Kabuli_Chr04	35791676	GG	CC	CC	INTERGENIC			
SNP_28892_A_35792208	NC_021163.1	Ca_Kabuli_Chr04	35792208	GG	AA	AA	INTERGENIC			
SNP_28893_A_35793320	NC_021163.1	Ca_Kabuli_Chr04	35793320	AA	TT	TT	INTERGENIC			
SNP_28894_A_35793350	NC_021163.1	Ca_Kabuli_Chr04	35793350	TT	CC	CC	INTERGENIC			
SNP_28895_A_35796585	NC_021163.1	Ca_Kabuli_Chr04	35796585	GG	AA	AA	INTERGENIC			
SNP_28896_A_35798427	NC_021163.1	Ca_Kabuli_Chr04	35798427	TT	AA	AA	INTERGENIC			
SNP_28898_A_35822156	NC_021163.1	Ca_Kabuli_Chr04	35822156	TT	CC	CC	INTERGENIC			
SNP_28899_A_35822162	NC_021163.1	Ca_Kabuli_Chr04	35822162	CC	TT	TT	INTERGENIC			
SNP_28901_A_35822553	NC_021163.1	Ca_Kabuli_Chr04	35822553	TT	CC	CC	INTERGENIC			
SNP_28902_A_35822690	NC_021163.1	Ca_Kabuli_Chr04	35822690	CC	TT	TT	INTERGENIC			
SNP_28903_A_35828798	NC_021163.1	Ca_Kabuli_Chr04	35828798	AA	GG	GG	INTERGENIC			
SNP_28904_A_35828819	NC_021163.1	Ca_Kabuli_Chr04	35828819	AA	CC	CC	INTERGENIC			
SNP_28905_A_35831770	NC_021163.1	Ca_Kabuli_Chr04	35831770	CC	GG	GG	INTERGENIC			
SNP_28907_A_35846939	NC_021163.1	Ca_Kabuli_Chr04	35846939	CC	AA	AA	INTERGENIC			
SNP_28908_A_35853606	NC_021163.1	Ca_Kabuli_Chr04	35853606	GG	CC	CC	INTERGENIC			
SNP_28909_A_35885262	NC_021163.1	Ca_Kabuli_Chr04	35885262	CC	AA	AA	INTERGENIC			
SNP_28910_A_35897765	NC_021163.1	Ca_Kabuli_Chr04	35897765	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28911_A_35913995	NC_021163.1	Ca_Kabuli_Chr04	35913995	TT	AA	AA	INTRON	101499994	serine/threonine-protein kinase TNNI3K-like
SNP_28912_A_35944938	NC_021163.1	Ca_Kabuli_Chr04	35944938	TT	CC	CC	INTRON	101500335	probable purine permease 9
SNP_28913_A_35944976	NC_021163.1	Ca_Kabuli_Chr04	35944976	AA	GG	GG	INTRON	101500335	probable purine permease 9
SNP_28915_A_36027244	NC_021163.1	Ca_Kabuli_Chr04	36027244	CC	GG	GG	INTERGENIC		
SNP_28916_A_36027246	NC_021163.1	Ca_Kabuli_Chr04	36027246	TT	GG	GG	INTERGENIC		
SNP_28918_A_36079543	NC_021163.1	Ca_Kabuli_Chr04	36079543	CC	TT	TT	NON_SYNONYMOUS_CODING	101505676	uncharacterized LOC101505676
SNP_28919_A_36093890	NC_021163.1	Ca_Kabuli_Chr04	36093890	AA	GG	GG	INTERGENIC		
SNP_28920_A_36094281	NC_021163.1	Ca_Kabuli_Chr04	36094281	TT	CC	CC	INTERGENIC		
SNP_28922_A_36099100	NC_021163.1	Ca_Kabuli_Chr04	36099100	TT	AA	AA	INTERGENIC		
SNP_28923_A_36189697	NC_021163.1	Ca_Kabuli_Chr04	36189697	GG	AA	AA	INTERGENIC		
SNP_28924_A_36225468	NC_021163.1	Ca_Kabuli_Chr04	36225468	AA	GG	GG	URR	101508668	ABC transporter G family member 26-like
SNP_28928_A_36300103	NC_021163.1	Ca_Kabuli_Chr04	36300103	TT	CC	CC	INTERGENIC		
SNP_28929_A_36300222	NC_021163.1	Ca_Kabuli_Chr04	36300222	AA	GG	GG	INTERGENIC		
SNP_28930_A_36300473	NC_021163.1	Ca_Kabuli_Chr04	36300473	AA	CC	CC	INTERGENIC		
SNP_28931_A_36334952	NC_021163.1	Ca_Kabuli_Chr04	36334952	AA	GG	GG	INTERGENIC		
SNP_28932_A_36334981	NC_021163.1	Ca_Kabuli_Chr04	36334981	CC	TT	TT	INTERGENIC		
SNP_28933_A_36335023	NC_021163.1	Ca_Kabuli_Chr04	36335023	TT	AA	AA	INTERGENIC		
SNP_28934_A_36335296	NC_021163.1	Ca_Kabuli_Chr04	36335296	CC	TT	TT	INTERGENIC		
SNP_28936_A_36335449	NC_021163.1	Ca_Kabuli_Chr04	36335449	GG	AA	AA	INTERGENIC		
SNP_28937_A_36335495	NC_021163.1	Ca_Kabuli_Chr04	36335495	CC	TT	TT	INTERGENIC		
SNP_28938_A_36335532	NC_021163.1	Ca_Kabuli_Chr04	36335532	TT	CC	CC	INTERGENIC		
SNP_28939_A_36335717	NC_021163.1	Ca_Kabuli_Chr04	36335717	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_28940_A_36335766	NC_021163.1	Ca_Kabuli_Chr04	36335766	CC	TT	TT	INTERGENIC			
SNP_28941_A_36335873	NC_021163.1	Ca_Kabuli_Chr04	36335873	CC	TT	TT	INTERGENIC			
SNP_28942_A_36335983	NC_021163.1	Ca_Kabuli_Chr04	36335983	TT	CC	CC	INTERGENIC			
SNP_28943_A_36336107	NC_021163.1	Ca_Kabuli_Chr04	36336107	TT	CC	CC	INTERGENIC			
SNP_28944_A_36336128	NC_021163.1	Ca_Kabuli_Chr04	36336128	AA	GG	GG	INTERGENIC			
SNP_28945_A_36336201	NC_021163.1	Ca_Kabuli_Chr04	36336201	CC	TT	TT	INTERGENIC			
SNP_28946_A_36336220	NC_021163.1	Ca_Kabuli_Chr04	36336220	CC	TT	TT	INTERGENIC			
SNP_28947_A_36336293	NC_021163.1	Ca_Kabuli_Chr04	36336293	CC	AA	AA	INTERGENIC			
SNP_28948_A_36336701	NC_021163.1	Ca_Kabuli_Chr04	36336701	GG	AA	AA	INTERGENIC			
SNP_28949_A_36336712	NC_021163.1	Ca_Kabuli_Chr04	36336712	TT	AA	AA	INTERGENIC			
SNP_28950_A_36336741	NC_021163.1	Ca_Kabuli_Chr04	36336741	TT	CC	CC	INTERGENIC			
SNP_28951_A_36336755	NC_021163.1	Ca_Kabuli_Chr04	36336755	CC	GG	GG	INTERGENIC			
SNP_28952_A_36336860	NC_021163.1	Ca_Kabuli_Chr04	36336860	TT	GG	GG	INTERGENIC			
SNP_28953_A_36336872	NC_021163.1	Ca_Kabuli_Chr04	36336872	GG	AA	AA	INTERGENIC			
SNP_28955_A_36336927	NC_021163.1	Ca_Kabuli_Chr04	36336927	CC	AA	AA	INTERGENIC			
SNP_28956_A_36336951	NC_021163.1	Ca_Kabuli_Chr04	36336951	CC	TT	TT	INTERGENIC			
SNP_28957_A_36336968	NC_021163.1	Ca_Kabuli_Chr04	36336968	AA	GG	GG	INTERGENIC			
SNP_28958_A_36337004	NC_021163.1	Ca_Kabuli_Chr04	36337004	AA	GG	GG	INTERGENIC			
SNP_28959_A_36337010	NC_021163.1	Ca_Kabuli_Chr04	36337010	CC	TT	TT	INTERGENIC			
SNP_28960_A_36337106	NC_021163.1	Ca_Kabuli_Chr04	36337106	AA	GG	GG	INTERGENIC			
SNP_28961_A_36337115	NC_021163.1	Ca_Kabuli_Chr04	36337115	AA	GG	GG	INTERGENIC			
SNP_28963_A_36337230	NC_021163.1	Ca_Kabuli_Chr04	36337230	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28964_A_36337313	NC_021163.1	Ca_Kabuli_Chr04	36337313	AA	GG	GG	INTERGENIC		
SNP_28965_A_36337318	NC_021163.1	Ca_Kabuli_Chr04	36337318	CC	GG	GG	INTERGENIC		
SNP_28967_A_36389354	NC_021163.1	Ca_Kabuli_Chr04	36389354	TT	CC	CC	INTERGENIC		
SNP_28969_A_36485346	NC_021163.1	Ca_Kabuli_Chr04	36485346	CC	TT	TT	DRR	101514908	flavonol synthase/flavanone 3-hydroxylase-like
SNP_28970_A_36499553	NC_021163.1	Ca_Kabuli_Chr04	36499553	GG	AA	AA	INTERGENIC		
SNP_28972_A_36550280	NC_021163.1	Ca_Kabuli_Chr04	36550280	AA	TT	TT	INTERGENIC		
SNP_28973_A_36550802	NC_021163.1	Ca_Kabuli_Chr04	36550802	CC	AA	AA	INTERGENIC		
SNP_28974_A_36550822	NC_021163.1	Ca_Kabuli_Chr04	36550822	CC	AA	AA	INTERGENIC		
SNP_28975_A_36550918	NC_021163.1	Ca_Kabuli_Chr04	36550918	CC	TT	TT	INTERGENIC		
SNP_28977_A_36615879	NC_021163.1	Ca_Kabuli_Chr04	36615879	GG	AA	AA	DRR	101490490	long chain acyl-CoA synthetase 2-like
SNP_28978_A_36615887	NC_021163.1	Ca_Kabuli_Chr04	36615887	GG	TT	TT	DRR	101490490	long chain acyl-CoA synthetase 2-like
SNP_28979_A_36629787	NC_021163.1	Ca_Kabuli_Chr04	36629787	GG	AA	AA	INTERGENIC		
SNP_28980_A_36682523	NC_021163.1	Ca_Kabuli_Chr04	36682523	AA	GG	GG	INTERGENIC		
SNP_28982_A_36726657	NC_021163.1	Ca_Kabuli_Chr04	36726657	TT	CC	CC	INTERGENIC		
SNP_28983_A_36726660	NC_021163.1	Ca_Kabuli_Chr04	36726660	TT	CC	CC	INTERGENIC		
SNP_28984_A_36726681	NC_021163.1	Ca_Kabuli_Chr04	36726681	CC	TT	TT	INTERGENIC		
SNP_28985_A_36726704	NC_021163.1	Ca_Kabuli_Chr04	36726704	TT	CC	CC	INTERGENIC		
SNP_28986_A_36726720	NC_021163.1	Ca_Kabuli_Chr04	36726720	AA	CC	CC	INTERGENIC		
SNP_28987_A_36726745	NC_021163.1	Ca_Kabuli_Chr04	36726745	TT	CC	CC	INTERGENIC		
SNP_28990_A_36726986	NC_021163.1	Ca_Kabuli_Chr04	36726986	AA	GG	GG	INTERGENIC		
SNP_28991_A_36727121	NC_021163.1	Ca_Kabuli_Chr04	36727121	TT	AA	AA	INTERGENIC		
SNP_28992_A_36727163	NC_021163.1	Ca_Kabuli_Chr04	36727163	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_28993_A_36735153	NC_021163.1	Ca_Kabuli_Chr04	36735153	CC	TT	TT	INTERGENIC		
SNP_28994_A_36842665	NC_021163.1	Ca_Kabuli_Chr04	36842665	CC	GG	GG	NON_SYNONYMOUS_CODING	101506418	titin
SNP_28995_A_36853057	NC_021163.1	Ca_Kabuli_Chr04	36853057	TT	AA	AA	URR	101495335	uncharacterized LOC101495335
SNP_28996_A_36882619	NC_021163.1	Ca_Kabuli_Chr04	36882619	TT	CC	CC	INTERGENIC		
SNP_28997_A_36897993	NC_021163.1	Ca_Kabuli_Chr04	36897993	CC	AA	AA	INTERGENIC		
SNP_28998_A_36931789	NC_021163.1	Ca_Kabuli_Chr04	36931789	TT	CC	CC	INTERGENIC		
SNP_28999_A_36931832	NC_021163.1	Ca_Kabuli_Chr04	36931832	CC	TT	TT	INTERGENIC		
SNP_29000_A_36932554	NC_021163.1	Ca_Kabuli_Chr04	36932554	CC	TT	TT	INTERGENIC		
SNP_29001_A_36952569	NC_021163.1	Ca_Kabuli_Chr04	36952569	GG	TT	TT	INTRON	101496648	protein indeterminate-domain 5, chloroplastic-like
SNP_29002_A_36952588	NC_021163.1	Ca_Kabuli_Chr04	36952588	GG	TT	TT	INTRON	101496648	protein indeterminate-domain 5, chloroplastic-like
SNP_29005_A_36961310	NC_021163.1	Ca_Kabuli_Chr04	36961310	GG	AA	AA	INTERGENIC		
SNP_29006_A_36962418	NC_021163.1	Ca_Kabuli_Chr04	36962418	AA	GG	GG	INTERGENIC		
SNP_29007_A_36962419	NC_021163.1	Ca_Kabuli_Chr04	36962419	AA	GG	GG	INTERGENIC		
SNP_29008_A_36964357	NC_021163.1	Ca_Kabuli_Chr04	36964357	TT	CC	CC	INTERGENIC		
SNP_29009_A_36964885	NC_021163.1	Ca_Kabuli_Chr04	36964885	AA	GG	GG	INTERGENIC		
SNP_29010_A_36964889	NC_021163.1	Ca_Kabuli_Chr04	36964889	GG	AA	AA	INTERGENIC		
SNP_29011_A_36964922	NC_021163.1	Ca_Kabuli_Chr04	36964922	CC	TT	TT	INTERGENIC		
SNP_29013_A_36968258	NC_021163.1	Ca_Kabuli_Chr04	36968258	TT	AA	AA	INTERGENIC		
SNP_29015_A_36968337	NC_021163.1	Ca_Kabuli_Chr04	36968337	TT	GG	GG	INTERGENIC		
SNP_29019_A_36973155	NC_021163.1	Ca_Kabuli_Chr04	36973155	CC	TT	TT	INTERGENIC		
SNP_29020_A_36974609	NC_021163.1	Ca_Kabuli_Chr04	36974609	CC	TT	TT	DRR	101497407	protein CHROMATIN REMODELING 19
SNP_29021_A_36979016	NC_021163.1	Ca_Kabuli_Chr04	36979016	GG	AA	AA	INTRON	101497407	protein CHROMATIN REMODELING 19

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29022_A_36986933	NC_021163.1	Ca_Kabuli_Chr04	36986933	AA	GG	GG	URR	101497407	protein CHROMATIN REMODELING 19
SNP_29023_A_37007310	NC_021163.1	Ca_Kabuli_Chr04	37007310	TT	GG	GG	INTERGENIC		
SNP_29024_A_37007624	NC_021163.1	Ca_Kabuli_Chr04	37007624	GG	AA	AA	INTERGENIC		
SNP_29025_A_37007640	NC_021163.1	Ca_Kabuli_Chr04	37007640	TT	CC	CC	INTERGENIC		
SNP_29026_A_37007692	NC_021163.1	Ca_Kabuli_Chr04	37007692	GG	TT	TT	INTERGENIC		
SNP_29027_A_37008969	NC_021163.1	Ca_Kabuli_Chr04	37008969	CC	AA	AA	INTERGENIC		
SNP_29028_A_37012192	NC_021163.1	Ca_Kabuli_Chr04	37012192	TT	AA	AA	INTERGENIC		
SNP_29029_A_37012201	NC_021163.1	Ca_Kabuli_Chr04	37012201	CC	AA	AA	INTERGENIC		
SNP_29030_A_37012493	NC_021163.1	Ca_Kabuli_Chr04	37012493	TT	CC	CC	INTERGENIC		
SNP_29031_A_37012616	NC_021163.1	Ca_Kabuli_Chr04	37012616	TT	CC	CC	INTERGENIC		
SNP_29032_A_37012778	NC_021163.1	Ca_Kabuli_Chr04	37012778	TT	GG	GG	INTERGENIC		
SNP_29033_A_37013005	NC_021163.1	Ca_Kabuli_Chr04	37013005	AA	TT	TT	INTERGENIC		
SNP_29034_A_37013336	NC_021163.1	Ca_Kabuli_Chr04	37013336	GG	AA	AA	INTERGENIC		
SNP_29035_A_37013498	NC_021163.1	Ca_Kabuli_Chr04	37013498	AA	CC	CC	INTERGENIC		
SNP_29036_A_37013520	NC_021163.1	Ca_Kabuli_Chr04	37013520	CC	TT	TT	INTERGENIC		
SNP_29037_A_37013556	NC_021163.1	Ca_Kabuli_Chr04	37013556	CC	TT	TT	INTERGENIC		
SNP_29038_A_37013579	NC_021163.1	Ca_Kabuli_Chr04	37013579	AA	TT	TT	INTERGENIC		
SNP_29040_A_37025436	NC_021163.1	Ca_Kabuli_Chr04	37025436	AA	CC	CC	INTERGENIC		
SNP_29041_A_37025479	NC_021163.1	Ca_Kabuli_Chr04	37025479	AA	TT	TT	INTERGENIC		
SNP_29042_A_37025510	NC_021163.1	Ca_Kabuli_Chr04	37025510	AA	GG	GG	INTERGENIC		
SNP_29043_A_37025697	NC_021163.1	Ca_Kabuli_Chr04	37025697	TT	CC	CC	INTERGENIC		
SNP_29044_A_37025750	NC_021163.1	Ca_Kabuli_Chr04	37025750	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29045_A_37027073	NC_021163.1	Ca_Kabuli_Chr04	37027073	CC	TT	TT	INTERGENIC		
SNP_29046_A_37027097	NC_021163.1	Ca_Kabuli_Chr04	37027097	GG	TT	TT	INTERGENIC		
SNP_29047_A_37027462	NC_021163.1	Ca_Kabuli_Chr04	37027462	GG	AA	AA	INTERGENIC		
SNP_29048_A_37027465	NC_021163.1	Ca_Kabuli_Chr04	37027465	CC	TT	TT	INTERGENIC		
SNP_29049_A_37027471	NC_021163.1	Ca_Kabuli_Chr04	37027471	GG	CC	CC	INTERGENIC		
SNP_29050_A_37027496	NC_021163.1	Ca_Kabuli_Chr04	37027496	TT	AA	AA	INTERGENIC		
SNP_29051_A_37027508	NC_021163.1	Ca_Kabuli_Chr04	37027508	GG	AA	AA	INTERGENIC		
SNP_29052_A_37032909	NC_021163.1	Ca_Kabuli_Chr04	37032909	TT	CC	CC	INTERGENIC		
SNP_29053_A_37032921	NC_021163.1	Ca_Kabuli_Chr04	37032921	TT	CC	CC	INTERGENIC		
SNP_29054_A_37032989	NC_021163.1	Ca_Kabuli_Chr04	37032989	TT	CC	CC	INTERGENIC		
SNP_29055_A_37034149	NC_021163.1	Ca_Kabuli_Chr04	37034149	TT	GG	GG	INTERGENIC		
SNP_29057_A_37034722	NC_021163.1	Ca_Kabuli_Chr04	37034722	TT	CC	CC	INTERGENIC		
SNP_29058_A_37034737	NC_021163.1	Ca_Kabuli_Chr04	37034737	TT	CC	CC	INTERGENIC		
SNP_29059_A_37034767	NC_021163.1	Ca_Kabuli_Chr04	37034767	GG	AA	AA	INTERGENIC		
SNP_29060_A_37035055	NC_021163.1	Ca_Kabuli_Chr04	37035055	AA	CC	CC	INTERGENIC		
SNP_29063_A_37035779	NC_021163.1	Ca_Kabuli_Chr04	37035779	AA	GG	GG	INTERGENIC		
SNP_29065_A_37038568	NC_021163.1	Ca_Kabuli_Chr04	37038568	AA	GG	GG	INTERGENIC		
SNP_29066_A_37039530	NC_021163.1	Ca_Kabuli_Chr04	37039530	AA	CC	CC	DRR	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29068_A_37039555	NC_021163.1	Ca_Kabuli_Chr04	37039555	CC	GG	GG	DRR	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29069_A_37041145	NC_021163.1	Ca_Kabuli_Chr04	37041145	GG	TT	TT	INTRON	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29070_A_37041154	NC_021163.1	Ca_Kabuli_Chr04	37041154	GG	TT	TT	INTRON	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29072_A_37041164	NC_021163.1	Ca_Kabuli_Chr04	37041164	AA	GG	GG	INTRON	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29073_A_37041187	NC_021163.1	Ca_Kabuli_Chr04	37041187	TT	CC	CC	INTRON	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29074_A_37041399	NC_021163.1	Ca_Kabuli_Chr04	37041399	AA	GG	GG	INTRON	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29075_A_37043461	NC_021163.1	Ca_Kabuli_Chr04	37043461	CC	AA	AA	URR	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29077_A_37044407	NC_021163.1	Ca_Kabuli_Chr04	37044407	TT	CC	CC	URR	101497743	peptidyl-prolyl cis-trans isomerase CYP21-4-like
SNP_29078_A_37046494	NC_021163.1	Ca_Kabuli_Chr04	37046494	TT	CC	CC	INTERGENIC		
SNP_29081_A_37047817	NC_021163.1	Ca_Kabuli_Chr04	37047817	CC	TT	TT	INTERGENIC		
SNP_29082_A_37055701	NC_021163.1	Ca_Kabuli_Chr04	37055701	AA	GG	GG	INTERGENIC		
SNP_29084_A_37057944	NC_021163.1	Ca_Kabuli_Chr04	37057944	TT	GG	GG	INTERGENIC		
SNP_29086_A_37057977	NC_021163.1	Ca_Kabuli_Chr04	37057977	CC	TT	TT	INTERGENIC		
SNP_29087_A_37057983	NC_021163.1	Ca_Kabuli_Chr04	37057983	TT	CC	CC	INTERGENIC		
SNP_29088_A_37059778	NC_021163.1	Ca_Kabuli_Chr04	37059778	TT	CC	CC	URR	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29089_A_37061423	NC_021163.1	Ca_Kabuli_Chr04	37061423	GG	AA	AA	SYNONYMOUS_CODING	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29090_A_37067907	NC_021163.1	Ca_Kabuli_Chr04	37067907	TT	AA	AA	INTERGENIC		
SNP_29091_A_37069216	NC_021163.1	Ca_Kabuli_Chr04	37069216	TT	CC	CC	URR	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29092_A_37069963	NC_021163.1	Ca_Kabuli_Chr04	37069963	TT	AA	AA	URR	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29093_A_37070153	NC_021163.1	Ca_Kabuli_Chr04	37070153	TT	CC	CC	URR	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29094_A_37070422	NC_021163.1	Ca_Kabuli_Chr04	37070422	AA	GG	GG	URR	101498068	histone-lysine N-methyltransferase family member SUVH9-like
SNP_29095_A_37083223	NC_021163.1	Ca_Kabuli_Chr04	37083223	TT	GG	GG	INTRON	101507403	B3 domain-containing transcription factor VRN1-like
SNP_29096_A_37083253	NC_021163.1	Ca_Kabuli_Chr04	37083253	CC	AA	AA	INTRON	101507403	B3 domain-containing transcription factor VRN1-like
SNP_29097_A_37087956	NC_021163.1	Ca_Kabuli_Chr04	37087956	TT	AA	AA	URR	101507403	B3 domain-containing transcription factor VRN1-like
SNP_29098_A_37089757	NC_021163.1	Ca_Kabuli_Chr04	37089757	GG	AA	AA	INTERGENIC		
SNP_29099_A_37089777	NC_021163.1	Ca_Kabuli_Chr04	37089777	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29100_A_37089783	NC_021163.1	Ca_Kabuli_Chr04	37089783	AA	GG	GG	INTERGENIC		
SNP_29101_A_37090036	NC_021163.1	Ca_Kabuli_Chr04	37090036	GG	AA	AA	INTERGENIC		
SNP_29103_A_37092840	NC_021163.1	Ca_Kabuli_Chr04	37092840	TT	CC	CC	INTERGENIC		
SNP_29104_A_37093357	NC_021163.1	Ca_Kabuli_Chr04	37093357	GG	TT	TT	INTERGENIC		
SNP_29105_A_37093415	NC_021163.1	Ca_Kabuli_Chr04	37093415	CC	AA	AA	INTERGENIC		
SNP_29106_A_37093646	NC_021163.1	Ca_Kabuli_Chr04	37093646	AA	CC	CC	INTERGENIC		
SNP_29107_A_37093986	NC_021163.1	Ca_Kabuli_Chr04	37093986	TT	AA	AA	DRR	101498848	B3 domain-containing protein LOC_Os12g40080-like
SNP_29108_A_37094010	NC_021163.1	Ca_Kabuli_Chr04	37094010	CC	TT	TT	DRR	101498848	B3 domain-containing protein LOC_Os12g40080-like
SNP_29109_A_37095597	NC_021163.1	Ca_Kabuli_Chr04	37095597	GG	AA	AA	NON_SYNONYMOUS_CODING	101498848	B3 domain-containing protein LOC_Os12g40080-like
SNP_29110_A_37099437	NC_021163.1	Ca_Kabuli_Chr04	37099437	GG	TT	TT	URR	101498848	B3 domain-containing protein LOC_Os12g40080-like
SNP_29111_A_37099785	NC_021163.1	Ca_Kabuli_Chr04	37099785	AA	CC	CC	URR	101498848	B3 domain-containing protein LOC_Os12g40080-like
SNP_29113_A_37100839	NC_021163.1	Ca_Kabuli_Chr04	37100839	CC	TT	TT	INTERGENIC		
SNP_29114_A_37100859	NC_021163.1	Ca_Kabuli_Chr04	37100859	AA	CC	CC	INTERGENIC		
SNP_29115_A_37100863	NC_021163.1	Ca_Kabuli_Chr04	37100863	CC	TT	TT	INTERGENIC		
SNP_29116_A_37100953	NC_021163.1	Ca_Kabuli_Chr04	37100953	CC	AA	AA	INTERGENIC		
SNP_29117_A_37105541	NC_021163.1	Ca_Kabuli_Chr04	37105541	GG	AA	AA	INTERGENIC		
SNP_29118_A_37105545	NC_021163.1	Ca_Kabuli_Chr04	37105545	CC	AA	AA	INTERGENIC		
SNP_29119_A_37105967	NC_021163.1	Ca_Kabuli_Chr04	37105967	TT	AA	AA	INTERGENIC		
SNP_29120_A_37107356	NC_021163.1	Ca_Kabuli_Chr04	37107356	GG	AA	AA	INTERGENIC		
SNP_29121_A_37107366	NC_021163.1	Ca_Kabuli_Chr04	37107366	CC	GG	GG	INTERGENIC		
SNP_29122_A_37107371	NC_021163.1	Ca_Kabuli_Chr04	37107371	GG	TT	TT	INTERGENIC		
SNP_29123_A_37108610	NC_021163.1	Ca_Kabuli_Chr04	37108610	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29124_A_37108623	NC_021163.1	Ca_Kabuli_Chr04	37108623	CC	TT	TT	INTERGENIC		
SNP_29125_A_37108637	NC_021163.1	Ca_Kabuli_Chr04	37108637	CC	GG	GG	INTERGENIC		
SNP_29126_A_37117734	NC_021163.1	Ca_Kabuli_Chr04	37117734	GG	AA	AA	DRR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29127_A_37117810	NC_021163.1	Ca_Kabuli_Chr04	37117810	CC	TT	TT	DRR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29129_A_37118170	NC_021163.1	Ca_Kabuli_Chr04	37118170	TT	GG	GG	DRR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29130_A_37118183	NC_021163.1	Ca_Kabuli_Chr04	37118183	AA	CC	CC	DRR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29132_A_37121914	NC_021163.1	Ca_Kabuli_Chr04	37121914	CC	TT	TT	URR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29133_A_37122631	NC_021163.1	Ca_Kabuli_Chr04	37122631	AA	TT	TT	URR	101507713	B3 domain-containing transcription factor VRN1-like
SNP_29135_A_37128744	NC_021163.1	Ca_Kabuli_Chr04	37128744	CC	GG	GG	DRR	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29136_A_37128789	NC_021163.1	Ca_Kabuli_Chr04	37128789	CC	TT	TT	DRR	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29137_A_37129906	NC_021163.1	Ca_Kabuli_Chr04	37129906	CC	AA	AA	NON_SYNONYMOUS_CODING	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29139_A_37130941	NC_021163.1	Ca_Kabuli_Chr04	37130941	TT	GG	GG	INTRON	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29140_A_37131039	NC_021163.1	Ca_Kabuli_Chr04	37131039	CC	GG	GG	NON_SYNONYMOUS_CODING	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29142_A_37131367	NC_021163.1	Ca_Kabuli_Chr04	37131367	AA	GG	GG	INTRON	101508042	B3 domain-containing transcription factor VRN1-like
SNP_29143_A_37154671	NC_021163.1	Ca_Kabuli_Chr04	37154671	CC	TT	TT	URR	101508553	alpha,alpha-trehalose-phosphate synthase [UDP-forming] 6-like
SNP_29144_A_37158713	NC_021163.1	Ca_Kabuli_Chr04	37158713	TT	AA	AA	DRR	101504599	Unknown function
SNP_29145_A_37206035	NC_021163.1	Ca_Kabuli_Chr04	37206035	GG	AA	AA	INTERGENIC		
SNP_29146_A_37206036	NC_021163.1	Ca_Kabuli_Chr04	37206036	CC	TT	TT	INTERGENIC		
SNP_29147_A_37246133	NC_021163.1	Ca_Kabuli_Chr04	37246133	TT	CC	CC	INTERGENIC		
SNP_29148_A_37247305	NC_021163.1	Ca_Kabuli_Chr04	37247305	GG	AA	AA	INTERGENIC		
SNP_29149_A_37257699	NC_021163.1	Ca_Kabuli_Chr04	37257699	AA	GG	GG	INTERGENIC		
SNP_29150_A_37265638	NC_021163.1	Ca_Kabuli_Chr04	37265638	TT	CC	CC	INTRON	101511125	dynammin-related protein 1C-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29151_A_37305058	NC_021163.1	Ca_Kabuli_Chr04	37305058	CC	AA	AA	URR	101512637	40S ribosomal protein S2-4-like
SNP_29152_A_37311794	NC_021163.1	Ca_Kabuli_Chr04	37311794	TT	CC	CC	INTERGENIC		
SNP_29154_A_37321808	NC_021163.1	Ca_Kabuli_Chr04	37321808	CC	TT	TT	INTERGENIC		
SNP_29155_A_37365603	NC_021163.1	Ca_Kabuli_Chr04	37365603	GG	TT	TT	INTERGENIC		
SNP_29156_A_37382555	NC_021163.1	Ca_Kabuli_Chr04	37382555	GG	AA	AA	INTERGENIC		
SNP_29157_A_37384531	NC_021163.1	Ca_Kabuli_Chr04	37384531	TT	AA	AA	DRR	101514789	probable calcium-binding protein CML25
SNP_29158_A_37397154	NC_021163.1	Ca_Kabuli_Chr04	37397154	AA	GG	GG	INTERGENIC		
SNP_29159_A_37404226	NC_021163.1	Ca_Kabuli_Chr04	37404226	GG	AA	AA	INTERGENIC		
SNP_29161_A_37476154	NC_021163.1	Ca_Kabuli_Chr04	37476154	CC	GG	GG	INTERGENIC		
SNP_29162_A_37519455	NC_021163.1	Ca_Kabuli_Chr04	37519455	TT	CC	CC	INTERGENIC		
SNP_29164_A_37519804	NC_021163.1	Ca_Kabuli_Chr04	37519804	AA	GG	GG	INTERGENIC		
SNP_29165_A_37519893	NC_021163.1	Ca_Kabuli_Chr04	37519893	AA	GG	GG	INTERGENIC		
SNP_29166_A_37595161	NC_021163.1	Ca_Kabuli_Chr04	37595161	CC	AA	AA	INTERGENIC		
SNP_29167_A_37621752	NC_021163.1	Ca_Kabuli_Chr04	37621752	TT	CC	CC	INTERGENIC		
SNP_29168_A_37621940	NC_021163.1	Ca_Kabuli_Chr04	37621940	AA	CC	CC	INTERGENIC		
SNP_29169_A_37622100	NC_021163.1	Ca_Kabuli_Chr04	37622100	AA	CC	CC	INTERGENIC		
SNP_29170_A_37622110	NC_021163.1	Ca_Kabuli_Chr04	37622110	CC	TT	TT	INTERGENIC		
SNP_29171_A_37623624	NC_021163.1	Ca_Kabuli_Chr04	37623624	TT	GG	GG	INTERGENIC		
SNP_29172_A_37623718	NC_021163.1	Ca_Kabuli_Chr04	37623718	AA	CC	CC	INTERGENIC		
SNP_29173_A_37671115	NC_021163.1	Ca_Kabuli_Chr04	37671115	TT	GG	GG	INTERGENIC		
SNP_29174_A_37682636	NC_021163.1	Ca_Kabuli_Chr04	37682636	AA	GG	GG	DRR	101494066	uncharacterized LOC101494066
SNP_29175_A_37703722	NC_021163.1	Ca_Kabuli_Chr04	37703722	CC	TT	TT	DRR	101496649	cytochrome c oxidase subunit 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29176_A_37703751	NC_021163.1	Ca_Kabuli_Chr04	37703751	TT	CC	CC	DRR	101496649	cytochrome c oxidase subunit 2
SNP_29177_A_37703863	NC_021163.1	Ca_Kabuli_Chr04	37703863	AA	TT	TT	DRR	101496649	cytochrome c oxidase subunit 2
SNP_29178_A_37703941	NC_021163.1	Ca_Kabuli_Chr04	37703941	AA	GG	GG	DRR	101496649	cytochrome c oxidase subunit 2
SNP_29179_A_37704106	NC_021163.1	Ca_Kabuli_Chr04	37704106	CC	AA	AA	INTERGENIC		
SNP_29180_A_37704109	NC_021163.1	Ca_Kabuli_Chr04	37704109	AA	CC	CC	INTERGENIC		
SNP_29181_A_37704307	NC_021163.1	Ca_Kabuli_Chr04	37704307	GG	AA	AA	INTERGENIC		
SNP_29182_A_37704345	NC_021163.1	Ca_Kabuli_Chr04	37704345	AA	GG	GG	INTERGENIC		
SNP_29183_A_37704705	NC_021163.1	Ca_Kabuli_Chr04	37704705	TT	GG	GG	INTERGENIC		
SNP_29184_A_37704755	NC_021163.1	Ca_Kabuli_Chr04	37704755	AA	CC	CC	INTERGENIC		
SNP_29185_A_37704782	NC_021163.1	Ca_Kabuli_Chr04	37704782	CC	AA	AA	INTERGENIC		
SNP_29186_A_37705061	NC_021163.1	Ca_Kabuli_Chr04	37705061	TT	AA	AA	INTERGENIC		
SNP_29187_A_37705224	NC_021163.1	Ca_Kabuli_Chr04	37705224	GG	TT	TT	INTERGENIC		
SNP_29188_A_37705317	NC_021163.1	Ca_Kabuli_Chr04	37705317	AA	GG	GG	INTERGENIC		
SNP_29189_A_37705335	NC_021163.1	Ca_Kabuli_Chr04	37705335	TT	CC	CC	INTERGENIC		
SNP_29190_A_37705349	NC_021163.1	Ca_Kabuli_Chr04	37705349	CC	TT	TT	INTERGENIC		
SNP_29191_A_37705350	NC_021163.1	Ca_Kabuli_Chr04	37705350	GG	AA	AA	INTERGENIC		
SNP_29192_A_37707088	NC_021163.1	Ca_Kabuli_Chr04	37707088	CC	TT	TT	URR	101496649	cytochrome c oxidase subunit 2
SNP_29193_A_37707106	NC_021163.1	Ca_Kabuli_Chr04	37707106	GG	CC	CC	URR	101496649	cytochrome c oxidase subunit 2
SNP_29194_A_37708911	NC_021163.1	Ca_Kabuli_Chr04	37708911	GG	CC	CC	URR	101496649	cytochrome c oxidase subunit 2
SNP_29195_A_37708964	NC_021163.1	Ca_Kabuli_Chr04	37708964	GG	TT	TT	URR	101496649	cytochrome c oxidase subunit 2
SNP_29196_A_37708976	NC_021163.1	Ca_Kabuli_Chr04	37708976	TT	CC	CC	URR	101496649	cytochrome c oxidase subunit 2
SNP_29197_A_37709043	NC_021163.1	Ca_Kabuli_Chr04	37709043	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29198_A_37709255	NC_021163.1	Ca_Kabuli_Chr04	37709255	AA	CC	CC	INTERGENIC		
SNP_29199_A_37732531	NC_021163.1	Ca_Kabuli_Chr04	37732531	CC	TT	TT	INTERGENIC		
SNP_29200_A_37761879	NC_021163.1	Ca_Kabuli_Chr04	37761879	AA	GG	GG	INTERGENIC		
SNP_29201_A_37761946	NC_021163.1	Ca_Kabuli_Chr04	37761946	GG	CC	CC	INTERGENIC		
SNP_29202_A_37761981	NC_021163.1	Ca_Kabuli_Chr04	37761981	GG	AA	AA	INTERGENIC		
SNP_29204_A_37818793	NC_021163.1	Ca_Kabuli_Chr04	37818793	GG	AA	AA	INTRON	101501281	uncharacterized LOC101501281
SNP_29206_A_37842425	NC_021163.1	Ca_Kabuli_Chr04	37842425	CC	TT	TT	INTERGENIC		
SNP_29207_A_37883861	NC_021163.1	Ca_Kabuli_Chr04	37883861	AA	TT	TT	INTERGENIC		
SNP_29208_A_37883863	NC_021163.1	Ca_Kabuli_Chr04	37883863	TT	CC	CC	INTERGENIC		
SNP_29209_A_37930949	NC_021163.1	Ca_Kabuli_Chr04	37930949	TT	CC	CC	DRR	101507816	F-box/kelch-repeat protein At3g23880-like
SNP_29210_A_38045168	NC_021163.1	Ca_Kabuli_Chr04	38045168	TT	CC	CC	INTERGENIC		
SNP_29211_A_38049134	NC_021163.1	Ca_Kabuli_Chr04	38049134	AA	CC	CC	INTERGENIC		
SNP_29212_A_38050298	NC_021163.1	Ca_Kabuli_Chr04	38050298	AA	GG	GG	INTERGENIC		
SNP_29214_A_38102726	NC_021163.1	Ca_Kabuli_Chr04	38102726	AA	GG	GG	INTRON	101512949	WAT1-related protein At4g08290-like
SNP_29215_A_38117792	NC_021163.1	Ca_Kabuli_Chr04	38117792	GG	AA	AA	INTERGENIC		
SNP_29216_A_38142906	NC_021163.1	Ca_Kabuli_Chr04	38142906	CC	TT	TT	INTERGENIC		
SNP_29217_A_38273306	NC_021163.1	Ca_Kabuli_Chr04	38273306	AA	GG	GG	INTERGENIC		
SNP_29218_A_38299922	NC_021163.1	Ca_Kabuli_Chr04	38299922	TT	CC	CC	INTRON	101515232	chlorophyllide a oxygenase, chloroplastic
SNP_29219_A_38335933	NC_021163.1	Ca_Kabuli_Chr04	38335933	TT	GG	GG	INTERGENIC		
SNP_29220_A_38336050	NC_021163.1	Ca_Kabuli_Chr04	38336050	GG	AA	AA	INTERGENIC		
SNP_29221_A_38336229	NC_021163.1	Ca_Kabuli_Chr04	38336229	GG	TT	TT	INTERGENIC		
SNP_29222_A_38336251	NC_021163.1	Ca_Kabuli_Chr04	38336251	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29223_A_38336291	NC_021163.1	Ca_Kabuli_Chr04	38336291	CC	TT	TT	INTERGENIC		
SNP_29224_A_38336312	NC_021163.1	Ca_Kabuli_Chr04	38336312	TT	CC	CC	INTERGENIC		
SNP_29225_A_38339575	NC_021163.1	Ca_Kabuli_Chr04	38339575	GG	AA	AA	DRR	101488525	aspartic proteinase Asp1-like
SNP_29226_A_38367342	NC_021163.1	Ca_Kabuli_Chr04	38367342	AA	GG	GG	URR	101488871	uncharacterized LOC101488871
SNP_29227_A_38604234	NC_021163.1	Ca_Kabuli_Chr04	38604234	TT	AA	AA	INTERGENIC		
SNP_29228_A_38604238	NC_021163.1	Ca_Kabuli_Chr04	38604238	AA	CC	CC	INTERGENIC		
SNP_29229_A_38607587	NC_021163.1	Ca_Kabuli_Chr04	38607587	GG	CC	CC	INTERGENIC		
SNP_29230_A_38607669	NC_021163.1	Ca_Kabuli_Chr04	38607669	AA	GG	GG	INTERGENIC		
SNP_29231_A_38633917	NC_021163.1	Ca_Kabuli_Chr04	38633917	AA	GG	GG	INTERGENIC		
SNP_29232_A_38633918	NC_021163.1	Ca_Kabuli_Chr04	38633918	AA	TT	TT	INTERGENIC		
SNP_29233_A_38633929	NC_021163.1	Ca_Kabuli_Chr04	38633929	CC	AA	AA	INTERGENIC		
SNP_29234_A_38635271	NC_021163.1	Ca_Kabuli_Chr04	38635271	CC	TT	TT	INTERGENIC		
SNP_29235_A_38637722	NC_021163.1	Ca_Kabuli_Chr04	38637722	TT	GG	GG	INTERGENIC		
SNP_29236_A_38643054	NC_021163.1	Ca_Kabuli_Chr04	38643054	TT	CC	CC	NON_SYNONYMOUS_CODING	101490285	uncharacterized LOC101490285
SNP_29237_A_38655152	NC_021163.1	Ca_Kabuli_Chr04	38655152	AA	GG	GG	INTERGENIC		
SNP_29239_A_38692790	NC_021163.1	Ca_Kabuli_Chr04	38692790	TT	GG	GG	INTERGENIC		
SNP_29240_A_38793368	NC_021163.1	Ca_Kabuli_Chr04	38793368	AA	TT	TT	INTERGENIC		
SNP_29241_A_38840151	NC_021163.1	Ca_Kabuli_Chr04	38840151	TT	CC	CC	INTERGENIC		
SNP_29242_A_38840204	NC_021163.1	Ca_Kabuli_Chr04	38840204	TT	CC	CC	INTERGENIC		
SNP_29243_A_38840564	NC_021163.1	Ca_Kabuli_Chr04	38840564	CC	TT	TT	INTERGENIC		
SNP_29244_A_38856489	NC_021163.1	Ca_Kabuli_Chr04	38856489	GG	AA	AA	INTERGENIC		
SNP_29246_A_39003052	NC_021163.1	Ca_Kabuli_Chr04	39003052	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29251_A_39070306	NC_021163.1	Ca_Kabuli_Chr04	39070306	GG	AA	AA	INTERGENIC		
SNP_29252_A_39070326	NC_021163.1	Ca_Kabuli_Chr04	39070326	TT	AA	AA	INTERGENIC		
SNP_29253_A_39070328	NC_021163.1	Ca_Kabuli_Chr04	39070328	TT	GG	GG	INTERGENIC		
SNP_29254_A_39070683	NC_021163.1	Ca_Kabuli_Chr04	39070683	TT	CC	CC	INTERGENIC		
SNP_29255_A_39072949	NC_021163.1	Ca_Kabuli_Chr04	39072949	TT	GG	GG	INTERGENIC		
SNP_29257_A_39153741	NC_021163.1	Ca_Kabuli_Chr04	39153741	TT	AA	AA	URR	101493206	probable receptor-like protein kinase At5g39030
SNP_29259_A_39189724	NC_021163.1	Ca_Kabuli_Chr04	39189724	TT	CC	CC	INTERGENIC		
SNP_29260_A_39189849	NC_021163.1	Ca_Kabuli_Chr04	39189849	AA	GG	GG	INTERGENIC		
SNP_29261_A_39190055	NC_021163.1	Ca_Kabuli_Chr04	39190055	GG	AA	AA	INTERGENIC		
SNP_29262_A_39298732	NC_021163.1	Ca_Kabuli_Chr04	39298732	AA	GG	GG	INTERGENIC		
SNP_29263_A_39298762	NC_021163.1	Ca_Kabuli_Chr04	39298762	AA	TT	TT	INTERGENIC		
SNP_29264_A_39299037	NC_021163.1	Ca_Kabuli_Chr04	39299037	GG	TT	TT	INTERGENIC		
SNP_29265_A_39304335	NC_021163.1	Ca_Kabuli_Chr04	39304335	TT	GG	GG	INTERGENIC		
SNP_29266_A_39342791	NC_021163.1	Ca_Kabuli_Chr04	39342791	CC	TT	TT	INTERGENIC		
SNP_29267_A_39378568	NC_021163.1	Ca_Kabuli_Chr04	39378568	AA	GG	GG	URR	101510377	glycerophosphodiester phosphodiesterase protein kinase domain-containing GDPDL2-like
SNP_29268_A_39644758	NC_021163.1	Ca_Kabuli_Chr04	39644758	TT	CC	CC	URR	101492764	Unknown function
SNP_29269_A_39644867	NC_021163.1	Ca_Kabuli_Chr04	39644867	TT	CC	CC	URR	101492764	Unknown function
SNP_29270_A_39645077	NC_021163.1	Ca_Kabuli_Chr04	39645077	CC	AA	AA	URR	101492764	Unknown function
SNP_29271_A_39647285	NC_021163.1	Ca_Kabuli_Chr04	39647285	CC	TT	TT	INTERGENIC		
SNP_29272_A_39648930	NC_021163.1	Ca_Kabuli_Chr04	39648930	TT	AA	AA	INTERGENIC		
SNP_29273_A_39649336	NC_021163.1	Ca_Kabuli_Chr04	39649336	CC	TT	TT	DRR	101493098	Unknown function
SNP_29274_A_39688910	NC_021163.1	Ca_Kabuli_Chr04	39688910	AA	CC	CC	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29277_A_39689210	NC_021163.1	Ca_Kabuli_Chr04	39689210	GG	AA	AA	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29278_A_39689278	NC_021163.1	Ca_Kabuli_Chr04	39689278	AA	CC	CC	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29280_A_39689301	NC_021163.1	Ca_Kabuli_Chr04	39689301	AA	CC	CC	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29281_A_39689308	NC_021163.1	Ca_Kabuli_Chr04	39689308	AA	GG	GG	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29282_A_39689320	NC_021163.1	Ca_Kabuli_Chr04	39689320	TT	CC	CC	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29283_A_39689349	NC_021163.1	Ca_Kabuli_Chr04	39689349	GG	AA	AA	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29284_A_39689386	NC_021163.1	Ca_Kabuli_Chr04	39689386	TT	AA	AA	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29285_A_39689408	NC_021163.1	Ca_Kabuli_Chr04	39689408	GG	TT	TT	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29286_A_39689423	NC_021163.1	Ca_Kabuli_Chr04	39689423	GG	TT	TT	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29287_A_39691197	NC_021163.1	Ca_Kabuli_Chr04	39691197	TT	CC	CC	INTERGENIC		
SNP_29288_A_39691217	NC_021163.1	Ca_Kabuli_Chr04	39691217	TT	CC	CC	INTERGENIC		
SNP_29289_A_39691522	NC_021163.1	Ca_Kabuli_Chr04	39691522	AA	TT	TT	INTERGENIC		
SNP_29290_A_39691529	NC_021163.1	Ca_Kabuli_Chr04	39691529	TT	CC	CC	INTERGENIC		
SNP_29291_A_39691540	NC_021163.1	Ca_Kabuli_Chr04	39691540	AA	GG	GG	INTERGENIC		
SNP_29292_A_39697730	NC_021163.1	Ca_Kabuli_Chr04	39697730	AA	CC	CC	INTRON	101509945	G-type lectin S-receptor-like serine/threonine-protein kinase B120
SNP_29293_A_39734909	NC_021163.1	Ca_Kabuli_Chr04	39734909	AA	GG	GG	INTERGENIC		
SNP_29295_A_39850341	NC_021163.1	Ca_Kabuli_Chr04	39850341	AA	GG	GG	INTERGENIC		
SNP_29296_A_39850343	NC_021163.1	Ca_Kabuli_Chr04	39850343	AA	TT	TT	INTERGENIC		
SNP_29297_A_39876640	NC_021163.1	Ca_Kabuli_Chr04	39876640	AA	CC	CC	INTRON	101505780	L-gulonolactone oxidase 3
SNP_29298_A_39889447	NC_021163.1	Ca_Kabuli_Chr04	39889447	GG	AA	AA	INTERGENIC		
SNP_29299_A_39889473	NC_021163.1	Ca_Kabuli_Chr04	39889473	GG	AA	AA	INTERGENIC		
SNP_29300_A_39889534	NC_021163.1	Ca_Kabuli_Chr04	39889534	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29301_A_39892228	NC_021163.1	Ca_Kabuli_Chr04	39892228	AA	CC	CC	INTERGENIC		
SNP_29302_A_39904157	NC_021163.1	Ca_Kabuli_Chr04	39904157	TT	CC	CC	INTERGENIC		
SNP_29303_A_39929609	NC_021163.1	Ca_Kabuli_Chr04	39929609	CC	TT	TT	INTERGENIC		
SNP_29304_A_39967584	NC_021163.1	Ca_Kabuli_Chr04	39967584	TT	CC	CC	URR	101504059	probable glycosyltransferase At5g03795
SNP_29305_A_39967917	NC_021163.1	Ca_Kabuli_Chr04	39967917	CC	TT	TT	INTERGENIC		
SNP_29306_A_39973935	NC_021163.1	Ca_Kabuli_Chr04	39973935	TT	GG	GG	URR	101503732	uncharacterized LOC101503732
SNP_29307_A_39986690	NC_021163.1	Ca_Kabuli_Chr04	39986690	AA	TT	TT	INTERGENIC		
SNP_29308_A_39986743	NC_021163.1	Ca_Kabuli_Chr04	39986743	GG	AA	AA	INTERGENIC		
SNP_29309_A_39986757	NC_021163.1	Ca_Kabuli_Chr04	39986757	CC	AA	TT	INTERGENIC		
SNP_29310_A_39986759	NC_021163.1	Ca_Kabuli_Chr04	39986759	GG	AA	AA	INTERGENIC		
SNP_29311_A_39986965	NC_021163.1	Ca_Kabuli_Chr04	39986965	TT	CC	CC	INTERGENIC		
SNP_29312_A_39987165	NC_021163.1	Ca_Kabuli_Chr04	39987165	TT	CC	CC	INTERGENIC		
SNP_29313_A_39987259	NC_021163.1	Ca_Kabuli_Chr04	39987259	AA	CC	CC	INTERGENIC		
SNP_29315_A_40049663	NC_021163.1	Ca_Kabuli_Chr04	40049663	AA	CC	CC	INTERGENIC		
SNP_29316_A_40114557	NC_021163.1	Ca_Kabuli_Chr04	40114557	TT	CC	CC	INTERGENIC		
SNP_29317_A_40114572	NC_021163.1	Ca_Kabuli_Chr04	40114572	AA	GG	GG	INTERGENIC		
SNP_29318_A_40114613	NC_021163.1	Ca_Kabuli_Chr04	40114613	AA	GG	GG	INTERGENIC		
SNP_29319_A_40171789	NC_021163.1	Ca_Kabuli_Chr04	40171789	GG	AA	AA	INTRON	101500851	phosphoribosylglycinamide formyltransferase, chloroplast-like
SNP_29320_A_40171953	NC_021163.1	Ca_Kabuli_Chr04	40171953	GG	TT	TT	NON_SYNONYMOUS_CODING	101500851	phosphoribosylglycinamide formyltransferase, chloroplast-like
SNP_29321_A_40171978	NC_021163.1	Ca_Kabuli_Chr04	40171978	TT	CC	CC	INTRON	101500851	phosphoribosylglycinamide formyltransferase, chloroplast-like
SNP_29322_A_40334922	NC_021163.1	Ca_Kabuli_Chr04	40334922	TT	CC	CC	INTERGENIC		
SNP_29323_A_40334979	NC_021163.1	Ca_Kabuli_Chr04	40334979	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29324_A_40335095	NC_021163.1	Ca_Kabuli_Chr04	40335095	AA	GG	GG	INTERGENIC		
SNP_29325_A_40335096	NC_021163.1	Ca_Kabuli_Chr04	40335096	GG	AA	AA	INTERGENIC		
SNP_29326_A_40335178	NC_021163.1	Ca_Kabuli_Chr04	40335178	TT	CC	CC	INTERGENIC		
SNP_29327_A_40335291	NC_021163.1	Ca_Kabuli_Chr04	40335291	TT	CC	CC	INTERGENIC		
SNP_29328_A_40335297	NC_021163.1	Ca_Kabuli_Chr04	40335297	AA	CC	CC	INTERGENIC		
SNP_29329_A_40335317	NC_021163.1	Ca_Kabuli_Chr04	40335317	CC	AA	AA	INTERGENIC		
SNP_29330_A_40335348	NC_021163.1	Ca_Kabuli_Chr04	40335348	TT	GG	GG	INTERGENIC		
SNP_29331_A_40335430	NC_021163.1	Ca_Kabuli_Chr04	40335430	AA	GG	GG	INTERGENIC		
SNP_29332_A_40335438	NC_021163.1	Ca_Kabuli_Chr04	40335438	TT	CC	CC	INTERGENIC		
SNP_29333_A_40341905	NC_021163.1	Ca_Kabuli_Chr04	40341905	AA	GG	GG	NON_SYNONYMOUS_CODING	101497408	pentatricopeptide repeat-containing protein At1g63080, mitochondrial-like
SNP_29334_A_40342229	NC_021163.1	Ca_Kabuli_Chr04	40342229	TT	CC	CC	SYNONYMOUS_CODING	101497408	pentatricopeptide repeat-containing protein At1g63080, mitochondrial-like
SNP_29335_A_40342230	NC_021163.1	Ca_Kabuli_Chr04	40342230	TT	AA	AA	STOP_GAINED	101497408	pentatricopeptide repeat-containing protein At1g63080, mitochondrial-like
SNP_29336_A_40342231	NC_021163.1	Ca_Kabuli_Chr04	40342231	GG	TT	TT	NON_SYNONYMOUS_CODING	101497408	pentatricopeptide repeat-containing protein At1g63080, mitochondrial-like
SNP_29337_A_40342235	NC_021163.1	Ca_Kabuli_Chr04	40342235	GG	TT	TT	NON_SYNONYMOUS_CODING	101497408	pentatricopeptide repeat-containing protein At1g63080, mitochondrial-like
SNP_29338_A_40406311	NC_021163.1	Ca_Kabuli_Chr04	40406311	GG	AA	AA	INTERGENIC		
SNP_29339_A_40468689	NC_021163.1	Ca_Kabuli_Chr04	40468689	AA	TT	TT	URR	101488313	reticulocalbin-2
SNP_29340_A_40473259	NC_021163.1	Ca_Kabuli_Chr04	40473259	CC	TT	TT	URR	101488636	uncharacterized LOC101488636
SNP_29341_A_40478942	NC_021163.1	Ca_Kabuli_Chr04	40478942	TT	CC	CC	INTRON	101488974	uncharacterized LOC101488974
SNP_29342_A_40484393	NC_021163.1	Ca_Kabuli_Chr04	40484393	TT	AA	AA	URR	101488974	uncharacterized LOC101488974
SNP_29343_A_40484690	NC_021163.1	Ca_Kabuli_Chr04	40484690	GG	AA	AA	URR	101488974	uncharacterized LOC101488974
SNP_29344_A_40484694	NC_021163.1	Ca_Kabuli_Chr04	40484694	AA	GG	GG	URR	101488974	uncharacterized LOC101488974
SNP_29345_A_40484761	NC_021163.1	Ca_Kabuli_Chr04	40484761	AA	GG	GG	URR	101488974	uncharacterized LOC101488974

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SNP_29346_A_40485356	NC_021163.1	Ca_Kabuli_Chr04	40485356	AA	GG	GG	URR	101488974	uncharacterized LOC101488974
SNP_29348_A_40485518	NC_021163.1	Ca_Kabuli_Chr04	40485518	CC	AA	AA	URR	101488974	uncharacterized LOC101488974
SNP_29349_A_40485519	NC_021163.1	Ca_Kabuli_Chr04	40485519	AA	TT	TT	URR	101488974	uncharacterized LOC101488974
SNP_29350_A_40487840	NC_021163.1	Ca_Kabuli_Chr04	40487840	TT	CC	CC	INTERGENIC		
SNP_29351_A_40489878	NC_021163.1	Ca_Kabuli_Chr04	40489878	GG	TT	TT	INTRON	101489421	protein ABIL2-like
SNP_29352_A_40490374	NC_021163.1	Ca_Kabuli_Chr04	40490374	GG	TT	TT	INTRON	101489421	protein ABIL2-like
SNP_29353_A_40490560	NC_021163.1	Ca_Kabuli_Chr04	40490560	TT	CC	CC	INTRON	101489421	protein ABIL2-like
SNP_29354_A_40490561	NC_021163.1	Ca_Kabuli_Chr04	40490561	GG	AA	AA	INTRON	101489421	protein ABIL2-like
SNP_29355_A_40491651	NC_021163.1	Ca_Kabuli_Chr04	40491651	CC	TT	TT	SYNONYMOUS_CODING	101489421	protein ABIL2-like
SNP_29356_A_40492047	NC_021163.1	Ca_Kabuli_Chr04	40492047	TT	CC	CC	INTRON	101489421	protein ABIL2-like
SNP_29357_A_40494750	NC_021163.1	Ca_Kabuli_Chr04	40494750	AA	GG	GG	URR	101489421	protein ABIL2-like
SNP_29358_A_40497257	NC_021163.1	Ca_Kabuli_Chr04	40497257	AA	TT	TT	DRR	101490168	uncharacterized protein At4g00950-like
SNP_29359_A_40498035	NC_021163.1	Ca_Kabuli_Chr04	40498035	GG	AA	AA	INTRON	101490168	uncharacterized protein At4g00950-like
SNP_29361_A_40498181	NC_021163.1	Ca_Kabuli_Chr04	40498181	GG	CC	CC	INTRON	101490168	uncharacterized protein At4g00950-like
SNP_29362_A_40498187	NC_021163.1	Ca_Kabuli_Chr04	40498187	AA	GG	GG	INTRON	101490168	uncharacterized protein At4g00950-like
SNP_29363_A_40498228	NC_021163.1	Ca_Kabuli_Chr04	40498228	CC	TT	TT	INTRON	101490168	uncharacterized protein At4g00950-like
SNP_29364_A_40498267	NC_021163.1	Ca_Kabuli_Chr04	40498267	AA	CC	CC	INTRON	101490168	uncharacterized protein At4g00950-like
SNP_29366_A_40501854	NC_021163.1	Ca_Kabuli_Chr04	40501854	AA	TT	TT	URR	101490168	uncharacterized protein At4g00950-like
SNP_29368_A_40501894	NC_021163.1	Ca_Kabuli_Chr04	40501894	CC	TT	TT	URR	101490168	uncharacterized protein At4g00950-like
SNP_29369_A_40504626	NC_021163.1	Ca_Kabuli_Chr04	40504626	CC	TT	TT	INTERGENIC		
SNP_29370_A_40504901	NC_021163.1	Ca_Kabuli_Chr04	40504901	TT	CC	CC	INTERGENIC		
SNP_29371_A_40506622	NC_021163.1	Ca_Kabuli_Chr04	40506622	TT	CC	CC	INTERGENIC		

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SNP_29372_A_40506635	NC_021163.1	Ca_Kabuli_Chr04	40506635	TT	CC	CC	INTERGENIC		
SNP_29373_A_40506649	NC_021163.1	Ca_Kabuli_Chr04	40506649	TT	GG	GG	INTERGENIC		
SNP_29374_A_40508240	NC_021163.1	Ca_Kabuli_Chr04	40508240	AA	GG	GG	INTERGENIC		
SNP_29376_A_40511234	NC_021163.1	Ca_Kabuli_Chr04	40511234	CC	TT	TT	NON_SYNONYMOUS_CODING	101490491	protein IQ-DOMAIN 1-like
SNP_29377_A_40513037	NC_021163.1	Ca_Kabuli_Chr04	40513037	GG	AA	AA	INTRON	101490491	protein IQ-DOMAIN 1-like
SNP_29378_A_40514850	NC_021163.1	Ca_Kabuli_Chr04	40514850	CC	GG	GG	INTRON	101490491	protein IQ-DOMAIN 1-like
SNP_29379_A_40514865	NC_021163.1	Ca_Kabuli_Chr04	40514865	TT	AA	AA	INTRON	101490491	protein IQ-DOMAIN 1-like
SNP_29381_A_40515976	NC_021163.1	Ca_Kabuli_Chr04	40515976	TT	CC	CC	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29382_A_40516032	NC_021163.1	Ca_Kabuli_Chr04	40516032	GG	AA	AA	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29383_A_40516043	NC_021163.1	Ca_Kabuli_Chr04	40516043	GG	AA	AA	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29384_A_40516052	NC_021163.1	Ca_Kabuli_Chr04	40516052	AA	GG	GG	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29385_A_40516089	NC_021163.1	Ca_Kabuli_Chr04	40516089	AA	GG	GG	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29386_A_40516414	NC_021163.1	Ca_Kabuli_Chr04	40516414	TT	GG	GG	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29387_A_40516475	NC_021163.1	Ca_Kabuli_Chr04	40516475	AA	CC	CC	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29388_A_40516526	NC_021163.1	Ca_Kabuli_Chr04	40516526	AA	GG	GG	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29389_A_40516656	NC_021163.1	Ca_Kabuli_Chr04	40516656	TT	CC	CC	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29390_A_40516667	NC_021163.1	Ca_Kabuli_Chr04	40516667	AA	GG	GG	URR	101490491	protein IQ-DOMAIN 1-like
SNP_29391_A_40517778	NC_021163.1	Ca_Kabuli_Chr04	40517778	TT	CC	CC	INTERGENIC		
SNP_29392_A_40517790	NC_021163.1	Ca_Kabuli_Chr04	40517790	TT	CC	CC	INTERGENIC		
SNP_29393_A_40519431	NC_021163.1	Ca_Kabuli_Chr04	40519431	CC	TT	TT	INTERGENIC		
SNP_29394_A_40519446	NC_021163.1	Ca_Kabuli_Chr04	40519446	AA	TT	TT	INTERGENIC		
SNP_29395_A_40520030	NC_021163.1	Ca_Kabuli_Chr04	40520030	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29396_A_40521247	NC_021163.1	Ca_Kabuli_Chr04	40521247	GG	TT	TT	INTERGENIC		
SNP_29398_A_40521684	NC_021163.1	Ca_Kabuli_Chr04	40521684	AA	GG	GG	INTERGENIC		
SNP_29401_A_40523864	NC_021163.1	Ca_Kabuli_Chr04	40523864	TT	CC	CC	INTERGENIC		
SNP_29402_A_40528156	NC_021163.1	Ca_Kabuli_Chr04	40528156	CC	TT	TT	DRR	101490815	uncharacterized LOC101490815
SNP_29403_A_40528471	NC_021163.1	Ca_Kabuli_Chr04	40528471	AA	GG	GG	DRR	101490815	uncharacterized LOC101490815
SNP_29406_A_40529599	NC_021163.1	Ca_Kabuli_Chr04	40529599	AA	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29407_A_40533165	NC_021163.1	Ca_Kabuli_Chr04	40533165	GG	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29408_A_40533785	NC_021163.1	Ca_Kabuli_Chr04	40533785	TT	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29410_A_40533858	NC_021163.1	Ca_Kabuli_Chr04	40533858	AA	GG	GG	INTRON	101490815	uncharacterized LOC101490815
SNP_29411_A_40534053	NC_021163.1	Ca_Kabuli_Chr04	40534053	CC	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29412_A_40534086	NC_021163.1	Ca_Kabuli_Chr04	40534086	AA	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29413_A_40534423	NC_021163.1	Ca_Kabuli_Chr04	40534423	AA	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29414_A_40534425	NC_021163.1	Ca_Kabuli_Chr04	40534425	AA	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29415_A_40534809	NC_021163.1	Ca_Kabuli_Chr04	40534809	GG	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29416_A_40539457	NC_021163.1	Ca_Kabuli_Chr04	40539457	TT	GG	GG	INTRON	101490815	uncharacterized LOC101490815
SNP_29417_A_40540384	NC_021163.1	Ca_Kabuli_Chr04	40540384	CC	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29418_A_40541296	NC_021163.1	Ca_Kabuli_Chr04	40541296	AA	GG	GG	INTRON	101490815	uncharacterized LOC101490815
SNP_29419_A_40541376	NC_021163.1	Ca_Kabuli_Chr04	40541376	CC	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29420_A_40541430	NC_021163.1	Ca_Kabuli_Chr04	40541430	AA	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29421_A_40543723	NC_021163.1	Ca_Kabuli_Chr04	40543723	TT	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29422_A_40548044	NC_021163.1	Ca_Kabuli_Chr04	40548044	TT	AA	AA	INTRON	101490815	uncharacterized LOC101490815
SNP_29423_A_40551366	NC_021163.1	Ca_Kabuli_Chr04	40551366	CC	TT	TT	INTRON	101490815	uncharacterized LOC101490815

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SNP_29424_A_40553964	NC_021163.1	Ca_Kabuli_Chr04	40553964	GG	TT	TT	INTRON	101490815	uncharacterized LOC101490815
SNP_29425_A_40553971	NC_021163.1	Ca_Kabuli_Chr04	40553971	GG	CC	CC	INTRON	101490815	uncharacterized LOC101490815
SNP_29426_A_40558964	NC_021163.1	Ca_Kabuli_Chr04	40558964	AA	GG	GG	URR	101490815	uncharacterized LOC101490815
SNP_29427_A_40559003	NC_021163.1	Ca_Kabuli_Chr04	40559003	TT	GG	GG	URR	101490815	uncharacterized LOC101490815
SNP_29429_A_40559037	NC_021163.1	Ca_Kabuli_Chr04	40559037	GG	AA	AA	URR	101490815	uncharacterized LOC101490815
SNP_29430_A_40560051	NC_021163.1	Ca_Kabuli_Chr04	40560051	CC	AA	AA	INTERGENIC		
SNP_29431_A_40560055	NC_021163.1	Ca_Kabuli_Chr04	40560055	CC	GG	GG	INTERGENIC		
SNP_29433_A_40560600	NC_021163.1	Ca_Kabuli_Chr04	40560600	TT	CC	CC	INTERGENIC		
SNP_29434_A_40560603	NC_021163.1	Ca_Kabuli_Chr04	40560603	GG	TT	TT	INTERGENIC		
SNP_29436_A_40572167	NC_021163.1	Ca_Kabuli_Chr04	40572167	CC	AA	AA	INTERGENIC		
SNP_29437_A_40573659	NC_021163.1	Ca_Kabuli_Chr04	40573659	AA	TT	TT	INTERGENIC		
SNP_29439_A_40574758	NC_021163.1	Ca_Kabuli_Chr04	40574758	AA	GG	GG	INTERGENIC		
SNP_29441_A_40575102	NC_021163.1	Ca_Kabuli_Chr04	40575102	CC	TT	TT	INTERGENIC		
SNP_29442_A_40575586	NC_021163.1	Ca_Kabuli_Chr04	40575586	AA	TT	TT	INTERGENIC		
SNP_29444_A_40576541	NC_021163.1	Ca_Kabuli_Chr04	40576541	TT	AA	AA	INTERGENIC		
SNP_29445_A_40577324	NC_021163.1	Ca_Kabuli_Chr04	40577324	AA	TT	TT	DRR	101491141	uncharacterized LOC101491141
SNP_29446_A_40577333	NC_021163.1	Ca_Kabuli_Chr04	40577333	TT	CC	CC	DRR	101491141	uncharacterized LOC101491141
SNP_29447_A_40577339	NC_021163.1	Ca_Kabuli_Chr04	40577339	TT	CC	CC	DRR	101491141	uncharacterized LOC101491141
SNP_29450_A_40599928	NC_021163.1	Ca_Kabuli_Chr04	40599928	CC	AA	AA	INTERGENIC		
SNP_29451_A_40603625	NC_021163.1	Ca_Kabuli_Chr04	40603625	AA	CC	CC	INTRON	101498276	Unknown function
SNP_29452_A_40603644	NC_021163.1	Ca_Kabuli_Chr04	40603644	CC	TT	TT	INTRON	101498276	Unknown function
SNP_29453_A_40604187	NC_021163.1	Ca_Kabuli_Chr04	40604187	AA	CC	CC	INTRON	101498276	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29454_A_40604188	NC_021163.1	Ca_Kabuli_Chr04	40604188	GG	CC	CC	INTRON	101498276	Unknown function
SNP_29455_A_40608892	NC_021163.1	Ca_Kabuli_Chr04	40608892	TT	GG	GG	INTRON	101498276	Unknown function
SNP_29456_A_40612623	NC_021163.1	Ca_Kabuli_Chr04	40612623	AA	GG	GG	INTRON	101498276	Unknown function
SNP_29458_A_40615140	NC_021163.1	Ca_Kabuli_Chr04	40615140	CC	AA	AA	INTRON	101498276	Unknown function
SNP_29459_A_40616993	NC_021163.1	Ca_Kabuli_Chr04	40616993	AA	GG	GG	INTRON	101498276	Unknown function
SNP_29462_A_40624377	NC_021163.1	Ca_Kabuli_Chr04	40624377	GG	CC	CC	URR	101498276	Unknown function
SNP_29464_A_40628882	NC_021163.1	Ca_Kabuli_Chr04	40628882	AA	GG	GG	INTERGENIC		
SNP_29465_A_40630022	NC_021163.1	Ca_Kabuli_Chr04	40630022	AA	CC	CC	INTERGENIC		
SNP_29466_A_40630366	NC_021163.1	Ca_Kabuli_Chr04	40630366	TT	CC	CC	INTERGENIC		
SNP_29467_A_40630367	NC_021163.1	Ca_Kabuli_Chr04	40630367	AA	CC	CC	INTERGENIC		
SNP_29468_A_40630368	NC_021163.1	Ca_Kabuli_Chr04	40630368	GG	AA	AA	INTERGENIC		
SNP_29469_A_40630369	NC_021163.1	Ca_Kabuli_Chr04	40630369	TT	AA	AA	INTERGENIC		
SNP_29470_A_40630370	NC_021163.1	Ca_Kabuli_Chr04	40630370	TT	CC	CC	INTERGENIC		
SNP_29471_A_40630411	NC_021163.1	Ca_Kabuli_Chr04	40630411	GG	AA	AA	INTERGENIC		
SNP_29472_A_40634570	NC_021163.1	Ca_Kabuli_Chr04	40634570	GG	AA	AA	INTERGENIC		
SNP_29473_A_40637900	NC_021163.1	Ca_Kabuli_Chr04	40637900	AA	CC	CC	DRR	101492088	O-acyltransferase WSD1-like
SNP_29474_A_40639338	NC_021163.1	Ca_Kabuli_Chr04	40639338	GG	AA	AA	INTRON	101492088	O-acyltransferase WSD1-like
SNP_29475_A_40639403	NC_021163.1	Ca_Kabuli_Chr04	40639403	TT	AA	AA	INTRON	101492088	O-acyltransferase WSD1-like
SNP_29476_A_40639635	NC_021163.1	Ca_Kabuli_Chr04	40639635	AA	GG	GG	INTRON	101492088	O-acyltransferase WSD1-like
SNP_29477_A_40639653	NC_021163.1	Ca_Kabuli_Chr04	40639653	TT	CC	CC	INTRON	101492088	O-acyltransferase WSD1-like
SNP_29478_A_40641164	NC_021163.1	Ca_Kabuli_Chr04	40641164	GG	AA	AA	INTRON	101492088	O-acyltransferase WSD1-like
SNP_29479_A_40648205	NC_021163.1	Ca_Kabuli_Chr04	40648205	GG	AA	AA	URR	101492088	O-acyltransferase WSD1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29480_A_40648207	NC_021163.1	Ca_Kabuli_Chr04	40648207	CC	TT	TT	URR	101492088	O-acyltransferase WSD1-like
SNP_29481_A_40648618	NC_021163.1	Ca_Kabuli_Chr04	40648618	CC	TT	TT	URR	101492088	O-acyltransferase WSD1-like
SNP_29482_A_40648899	NC_021163.1	Ca_Kabuli_Chr04	40648899	GG	AA	AA	DRR	101492432	protein BOBBER 1
SNP_29483_A_40648933	NC_021163.1	Ca_Kabuli_Chr04	40648933	CC	TT	TT	DRR	101492432	protein BOBBER 1
SNP_29485_A_40649219	NC_021163.1	Ca_Kabuli_Chr04	40649219	AA	TT	TT	DRR	101492432	protein BOBBER 1
SNP_29486_A_40649305	NC_021163.1	Ca_Kabuli_Chr04	40649305	CC	AA	AA	DRR	101492432	protein BOBBER 1
SNP_29487_A_40652279	NC_021163.1	Ca_Kabuli_Chr04	40652279	AA	GG	GG	INTRON	101492432	protein BOBBER 1
SNP_29489_A_40653565	NC_021163.1	Ca_Kabuli_Chr04	40653565	TT	CC	CC	URR	101492432	protein BOBBER 1
SNP_29491_A_40702673	NC_021163.1	Ca_Kabuli_Chr04	40702673	AA	GG	GG	INTERGENIC		
SNP_29493_A_40702816	NC_021163.1	Ca_Kabuli_Chr04	40702816	GG	AA	AA	INTERGENIC		
SNP_29494_A_40703042	NC_021163.1	Ca_Kabuli_Chr04	40703042	CC	AA	AA	INTERGENIC		
SNP_29495_A_40703270	NC_021163.1	Ca_Kabuli_Chr04	40703270	CC	AA	AA	INTERGENIC		
SNP_29497_A_40716090	NC_021163.1	Ca_Kabuli_Chr04	40716090	AA	TT	TT	INTRON	101499063	histone-lysine N-methyltransferase ATX5-like
SNP_29498_A_40716428	NC_021163.1	Ca_Kabuli_Chr04	40716428	GG	AA	AA	INTRON	101499063	histone-lysine N-methyltransferase ATX5-like
SNP_29499_A_40718660	NC_021163.1	Ca_Kabuli_Chr04	40718660	AA	GG	GG	INTERGENIC		
SNP_29501_A_40720663	NC_021163.1	Ca_Kabuli_Chr04	40720663	TT	CC	CC	INTERGENIC		
SNP_29502_A_40723208	NC_021163.1	Ca_Kabuli_Chr04	40723208	GG	CC	CC	INTERGENIC		
SNP_29504_A_40729049	NC_021163.1	Ca_Kabuli_Chr04	40729049	CC	GG	GG	URR	101499376	signal peptide peptidase-like
SNP_29506_A_40729647	NC_021163.1	Ca_Kabuli_Chr04	40729647	CC	TT	TT	URR	101499376	signal peptide peptidase-like
SNP_29507_A_40729668	NC_021163.1	Ca_Kabuli_Chr04	40729668	TT	AA	AA	URR	101499376	signal peptide peptidase-like
SNP_29508_A_40729744	NC_021163.1	Ca_Kabuli_Chr04	40729744	GG	AA	AA	URR	101499376	signal peptide peptidase-like
SNP_29509_A_40730032	NC_021163.1	Ca_Kabuli_Chr04	40730032	AA	GG	GG	URR	101499376	signal peptide peptidase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29510_A_40730038	NC_021163.1	Ca_Kabuli_Chr04	40730038	TT	CC	CC	URR	101499376	signal peptide peptidase-like
SNP_29511_A_40731207	NC_021163.1	Ca_Kabuli_Chr04	40731207	GG	AA	AA	DRR	101499684	uncharacterized LOC101499684
SNP_29512_A_40733601	NC_021163.1	Ca_Kabuli_Chr04	40733601	TT	AA	AA	INTERGENIC		
SNP_29513_A_40734461	NC_021163.1	Ca_Kabuli_Chr04	40734461	CC	TT	TT	INTERGENIC		
SNP_29514_A_40737662	NC_021163.1	Ca_Kabuli_Chr04	40737662	AA	TT	TT	DRR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29515_A_40737819	NC_021163.1	Ca_Kabuli_Chr04	40737819	TT	CC	CC	DRR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29516_A_40738475	NC_021163.1	Ca_Kabuli_Chr04	40738475	AA	TT	TT	DRR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29517_A_40742532	NC_021163.1	Ca_Kabuli_Chr04	40742532	TT	CC	CC	INTRON	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29519_A_40743838	NC_021163.1	Ca_Kabuli_Chr04	40743838	GG	CC	CC	URR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29520_A_40743850	NC_021163.1	Ca_Kabuli_Chr04	40743850	TT	AA	AA	URR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29521_A_40743944	NC_021163.1	Ca_Kabuli_Chr04	40743944	AA	GG	GG	URR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29523_A_40744009	NC_021163.1	Ca_Kabuli_Chr04	40744009	GG	AA	AA	URR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29524_A_40744190	NC_021163.1	Ca_Kabuli_Chr04	40744190	CC	TT	TT	URR	101499995	pentatricopeptide repeat-containing protein At5g25630-like
SNP_29525_A_40747377	NC_021163.1	Ca_Kabuli_Chr04	40747377	CC	AA	AA	INTERGENIC		
SNP_29526_A_40749792	NC_021163.1	Ca_Kabuli_Chr04	40749792	CC	TT	TT	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29527_A_40749812	NC_021163.1	Ca_Kabuli_Chr04	40749812	GG	CC	CC	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29528_A_40749818	NC_021163.1	Ca_Kabuli_Chr04	40749818	TT	CC	CC	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29529_A_40749870	NC_021163.1	Ca_Kabuli_Chr04	40749870	AA	TT	TT	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29530_A_40749915	NC_021163.1	Ca_Kabuli_Chr04	40749915	TT	CC	CC	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29531_A_40749937	NC_021163.1	Ca_Kabuli_Chr04	40749937	AA	GG	GG	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29532_A_40749947	NC_021163.1	Ca_Kabuli_Chr04	40749947	AA	CC	CC	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29533_A_40750114	NC_021163.1	Ca_Kabuli_Chr04	40750114	GG	AA	AA	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29534_A_40750173	NC_021163.1	Ca_Kabuli_Chr04	40750173	CC	TT	TT	DRR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29535_A_40751630	NC_021163.1	Ca_Kabuli_Chr04	40751630	TT	CC	CC	INTERGENIC		
SNP_29536_A_40751951	NC_021163.1	Ca_Kabuli_Chr04	40751951	AA	GG	GG	INTERGENIC		
SNP_29537_A_40752317	NC_021163.1	Ca_Kabuli_Chr04	40752317	AA	GG	GG	INTERGENIC		
SNP_29539_A_40754579	NC_021163.1	Ca_Kabuli_Chr04	40754579	AA	TT	TT	URR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29540_A_40754833	NC_021163.1	Ca_Kabuli_Chr04	40754833	AA	GG	GG	URR	101500852	pentatricopeptide repeat-containing protein At2g30780-like
SNP_29541_A_40755127	NC_021163.1	Ca_Kabuli_Chr04	40755127	GG	AA	AA	INTRON	101501182	diphthamide biosynthesis protein 2
SNP_29542_A_40755181	NC_021163.1	Ca_Kabuli_Chr04	40755181	TT	GG	GG	NON_SYNONYMOUS_CODING	101501182	diphthamide biosynthesis protein 2
SNP_29543_A_40755879	NC_021163.1	Ca_Kabuli_Chr04	40755879	TT	CC	CC	INTRON	101501182	diphthamide biosynthesis protein 2
SNP_29544_A_40761315	NC_021163.1	Ca_Kabuli_Chr04	40761315	AA	TT	TT	INTERGENIC		
SNP_29545_A_40761320	NC_021163.1	Ca_Kabuli_Chr04	40761320	AA	CC	CC	INTERGENIC		
SNP_29546_A_40761323	NC_021163.1	Ca_Kabuli_Chr04	40761323	AA	TT	TT	INTERGENIC		
SNP_29548_A_40763204	NC_021163.1	Ca_Kabuli_Chr04	40763204	TT	AA	AA	INTERGENIC		
SNP_29549_A_40763209	NC_021163.1	Ca_Kabuli_Chr04	40763209	CC	TT	TT	INTERGENIC		
SNP_29550_A_40765229	NC_021163.1	Ca_Kabuli_Chr04	40765229	CC	TT	TT	INTERGENIC		
SNP_29551_A_40765251	NC_021163.1	Ca_Kabuli_Chr04	40765251	GG	TT	TT	INTERGENIC		
SNP_29552_A_40765280	NC_021163.1	Ca_Kabuli_Chr04	40765280	CC	TT	TT	DRR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29553_A_40765343	NC_021163.1	Ca_Kabuli_Chr04	40765343	TT	AA	AA	DRR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29554_A_40765401	NC_021163.1	Ca_Kabuli_Chr04	40765401	GG	AA	AA	DRR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29555_A_40766796	NC_021163.1	Ca_Kabuli_Chr04	40766796	GG	TT	TT	DRR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29556_A_40767395	NC_021163.1	Ca_Kabuli_Chr04	40767395	CC	AA	AA	INTRON	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29558_A_40773088	NC_021163.1	Ca_Kabuli_Chr04	40773088	GG	AA	AA	URR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29559_A_40773126	NC_021163.1	Ca_Kabuli_Chr04	40773126	GG	AA	AA	URR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29560_A_40773148	NC_021163.1	Ca_Kabuli_Chr04	40773148	CC	TT	TT	URR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29561_A_40773150	NC_021163.1	Ca_Kabuli_Chr04	40773150	TT	GG	GG	URR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29562_A_40773160	NC_021163.1	Ca_Kabuli_Chr04	40773160	GG	AA	AA	URR	101501498	indole-3-pyruvate monooxygenase YUCCA6-like
SNP_29563_A_40773335	NC_021163.1	Ca_Kabuli_Chr04	40773335	TT	GG	GG	INTERGENIC		
SNP_29564_A_40773343	NC_021163.1	Ca_Kabuli_Chr04	40773343	CC	TT	TT	INTERGENIC		
SNP_29565_A_40773354	NC_021163.1	Ca_Kabuli_Chr04	40773354	GG	TT	TT	INTERGENIC		
SNP_29566_A_40773359	NC_021163.1	Ca_Kabuli_Chr04	40773359	AA	TT	TT	INTERGENIC		
SNP_29567_A_40773372	NC_021163.1	Ca_Kabuli_Chr04	40773372	GG	CC	CC	INTERGENIC		
SNP_29568_A_40773492	NC_021163.1	Ca_Kabuli_Chr04	40773492	GG	TT	TT	INTERGENIC		
SNP_29569_A_40773516	NC_021163.1	Ca_Kabuli_Chr04	40773516	TT	CC	CC	INTERGENIC		
SNP_29570_A_40773919	NC_021163.1	Ca_Kabuli_Chr04	40773919	GG	AA	AA	INTERGENIC		
SNP_29572_A_40777956	NC_021163.1	Ca_Kabuli_Chr04	40777956	AA	CC	CC	INTERGENIC		
SNP_29573_A_40778783	NC_021163.1	Ca_Kabuli_Chr04	40778783	TT	GG	GG	INTERGENIC		
SNP_29574_A_40779494	NC_021163.1	Ca_Kabuli_Chr04	40779494	CC	TT	TT	INTERGENIC		
SNP_29575_A_40779517	NC_021163.1	Ca_Kabuli_Chr04	40779517	TT	CC	CC	INTERGENIC		
SNP_29577_A_40782191	NC_021163.1	Ca_Kabuli_Chr04	40782191	CC	TT	TT	INTERGENIC		
SNP_29578_A_40783810	NC_021163.1	Ca_Kabuli_Chr04	40783810	AA	GG	GG	INTERGENIC		
SNP_29579_A_40786004	NC_021163.1	Ca_Kabuli_Chr04	40786004	TT	CC	CC	INTERGENIC		
SNP_29580_A_40786715	NC_021163.1	Ca_Kabuli_Chr04	40786715	TT	CC	CC	INTERGENIC		
SNP_29581_A_40786760	NC_021163.1	Ca_Kabuli_Chr04	40786760	TT	CC	CC	INTERGENIC		
SNP_29582_A_40787229	NC_021163.1	Ca_Kabuli_Chr04	40787229	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_29584_A_40790489	NC_021163.1	Ca_Kabuli_Chr04	40790489	AA	TT	TT	INTERGENIC			
SNP_29585_A_40790490	NC_021163.1	Ca_Kabuli_Chr04	40790490	TT	GG	GG	INTERGENIC			
SNP_29586_A_40790669	NC_021163.1	Ca_Kabuli_Chr04	40790669	GG	TT	TT	INTERGENIC			
SNP_29587_A_40790940	NC_021163.1	Ca_Kabuli_Chr04	40790940	GG	AA	AA	DRR	101502135	dehydration-responsive protein RD22	
SNP_29588_A_40795306	NC_021163.1	Ca_Kabuli_Chr04	40795306	CC	GG	GG	URR	101502135	dehydration-responsive protein RD22	
SNP_29589_A_40795319	NC_021163.1	Ca_Kabuli_Chr04	40795319	TT	CC	CC	URR	101502135	dehydration-responsive protein RD22	
SNP_29590_A_40795384	NC_021163.1	Ca_Kabuli_Chr04	40795384	CC	TT	TT	URR	101502135	dehydration-responsive protein RD22	
SNP_29592_A_40797583	NC_021163.1	Ca_Kabuli_Chr04	40797583	CC	TT	TT	INTERGENIC			
SNP_29593_A_40797950	NC_021163.1	Ca_Kabuli_Chr04	40797950	CC	TT	TT	INTERGENIC			
SNP_29594_A_40797952	NC_021163.1	Ca_Kabuli_Chr04	40797952	TT	GG	GG	INTERGENIC			
SNP_29595_A_40798003	NC_021163.1	Ca_Kabuli_Chr04	40798003	CC	TT	TT	INTERGENIC			
SNP_29596_A_40799147	NC_021163.1	Ca_Kabuli_Chr04	40799147	CC	TT	TT	DRR	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29598_A_40799460	NC_021163.1	Ca_Kabuli_Chr04	40799460	TT	GG	GG	DRR	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29599_A_40799476	NC_021163.1	Ca_Kabuli_Chr04	40799476	GG	TT	TT	DRR	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29602_A_40799765	NC_021163.1	Ca_Kabuli_Chr04	40799765	GG	AA	AA	DRR	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29603_A_40799850	NC_021163.1	Ca_Kabuli_Chr04	40799850	AA	CC	CC	DRR	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29604_A_40800480	NC_021163.1	Ca_Kabuli_Chr04	40800480	CC	TT	TT	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29605_A_40801287	NC_021163.1	Ca_Kabuli_Chr04	40801287	GG	AA	AA	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29607_A_40801999	NC_021163.1	Ca_Kabuli_Chr04	40801999	AA	GG	GG	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29609_A_40803324	NC_021163.1	Ca_Kabuli_Chr04	40803324	CC	TT	TT	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29610_A_40803368	NC_021163.1	Ca_Kabuli_Chr04	40803368	CC	TT	TT	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	
SNP_29611_A_40803370	NC_021163.1	Ca_Kabuli_Chr04	40803370	GG	AA	AA	INTRON	101501811	helicase and polymerase-containing protein TEBICHI	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29612_A_40803398	NC_021163.1	Ca_Kabuli_Chr04	40803398	TT	CC	CC	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29613_A_40809554	NC_021163.1	Ca_Kabuli_Chr04	40809554	AA	CC	CC	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29616_A_40810424	NC_021163.1	Ca_Kabuli_Chr04	40810424	GG	AA	AA	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29617_A_40811162	NC_021163.1	Ca_Kabuli_Chr04	40811162	CC	AA	AA	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29618_A_40811441	NC_021163.1	Ca_Kabuli_Chr04	40811441	GG	AA	AA	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29619_A_40812029	NC_021163.1	Ca_Kabuli_Chr04	40812029	TT	GG	GG	INTRON	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29620_A_40818184	NC_021163.1	Ca_Kabuli_Chr04	40818184	AA	GG	GG	SYNONYMOUS_CODING	101501811	helicase and polymerase-containing protein TEBICHI
SNP_29622_A_40823345	NC_021163.1	Ca_Kabuli_Chr04	40823345	TT	GG	GG	INTRON	101503071	uncharacterized LOC101503071
SNP_29623_A_40827434	NC_021163.1	Ca_Kabuli_Chr04	40827434	CC	TT	TT	INTRON	101503071	uncharacterized LOC101503071
SNP_29624_A_40827614	NC_021163.1	Ca_Kabuli_Chr04	40827614	CC	TT	TT	INTRON	101503071	uncharacterized LOC101503071
SNP_29625_A_40827696	NC_021163.1	Ca_Kabuli_Chr04	40827696	AA	GG	GG	INTRON	101503071	uncharacterized LOC101503071
SNP_29626_A_40830856	NC_021163.1	Ca_Kabuli_Chr04	40830856	CC	TT	TT	INTRON	101503071	uncharacterized LOC101503071
SNP_29627_A_40830886	NC_021163.1	Ca_Kabuli_Chr04	40830886	TT	CC	CC	INTRON	101503071	uncharacterized LOC101503071
SNP_29628_A_40832447	NC_021163.1	Ca_Kabuli_Chr04	40832447	GG	TT	TT	INTRON	101503071	uncharacterized LOC101503071
SNP_29629_A_40833847	NC_021163.1	Ca_Kabuli_Chr04	40833847	CC	TT	TT	INTRON	101503071	uncharacterized LOC101503071
SNP_29630_A_40834616	NC_021163.1	Ca_Kabuli_Chr04	40834616	TT	CC	CC	INTRON	101503071	uncharacterized LOC101503071
SNP_29631_A_40835832	NC_021163.1	Ca_Kabuli_Chr04	40835832	AA	GG	GG	INTRON	101503071	uncharacterized LOC101503071
SNP_29633_A_40837373	NC_021163.1	Ca_Kabuli_Chr04	40837373	AA	TT	TT	INTERGENIC		
SNP_29635_A_40839448	NC_021163.1	Ca_Kabuli_Chr04	40839448	GG	AA	AA	INTERGENIC		
SNP_29636_A_40840573	NC_021163.1	Ca_Kabuli_Chr04	40840573	TT	AA	AA	INTERGENIC		
SNP_29637_A_40840674	NC_021163.1	Ca_Kabuli_Chr04	40840674	AA	CC	CC	INTERGENIC		
SNP_29638_A_40841360	NC_021163.1	Ca_Kabuli_Chr04	40841360	CC	TT	TT	DRR	101502452	uncharacterized LOC101502452

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29639_A_40841567	NC_021163.1	Ca_Kabuli_Chr04	40841567	CC	GG	GG	DRR	101502452	uncharacterized LOC101502452
SNP_29641_A_40843829	NC_021163.1	Ca_Kabuli_Chr04	40843829	AA	CC	CC	URR	101502452	uncharacterized LOC101502452
SNP_29643_A_40845641	NC_021163.1	Ca_Kabuli_Chr04	40845641	CC	AA	AA	INTERGENIC		
SNP_29644_A_40846813	NC_021163.1	Ca_Kabuli_Chr04	40846813	CC	TT	TT	INTERGENIC		
SNP_29645_A_40851320	NC_021163.1	Ca_Kabuli_Chr04	40851320	TT	GG	GG	INTRON	101502758	two-on-two hemoglobin-3
SNP_29646_A_40852288	NC_021163.1	Ca_Kabuli_Chr04	40852288	GG	AA	AA	SYNONYMOUS_CODING	101502758	two-on-two hemoglobin-3
SNP_29647_A_40852602	NC_021163.1	Ca_Kabuli_Chr04	40852602	TT	AA	AA	DRR	101502758	two-on-two hemoglobin-3
SNP_29648_A_40852611	NC_021163.1	Ca_Kabuli_Chr04	40852611	CC	TT	TT	DRR	101502758	two-on-two hemoglobin-3
SNP_29649_A_40852649	NC_021163.1	Ca_Kabuli_Chr04	40852649	TT	AA	AA	DRR	101502758	two-on-two hemoglobin-3
SNP_29650_A_40852653	NC_021163.1	Ca_Kabuli_Chr04	40852653	GG	AA	AA	DRR	101502758	two-on-two hemoglobin-3
SNP_29651_A_40879902	NC_021163.1	Ca_Kabuli_Chr04	40879902	AA	CC	CC	INTRON	101492766	Unknown function
SNP_29652_A_40879911	NC_021163.1	Ca_Kabuli_Chr04	40879911	TT	AA	AA	INTRON	101492766	Unknown function
SNP_29653_A_40879933	NC_021163.1	Ca_Kabuli_Chr04	40879933	CC	TT	TT	INTRON	101492766	Unknown function
SNP_29654_A_40880048	NC_021163.1	Ca_Kabuli_Chr04	40880048	CC	AA	AA	INTRON	101492766	Unknown function
SNP_29655_A_40880068	NC_021163.1	Ca_Kabuli_Chr04	40880068	CC	TT	TT	INTRON	101492766	Unknown function
SNP_29656_A_40880073	NC_021163.1	Ca_Kabuli_Chr04	40880073	AA	TT	TT	NON_SYNONYMOUS_CODING	101492766	Unknown function
SNP_29657_A_40880138	NC_021163.1	Ca_Kabuli_Chr04	40880138	GG	AA	AA	SYNONYMOUS_CODING	101492766	Unknown function
SNP_29658_A_40881532	NC_021163.1	Ca_Kabuli_Chr04	40881532	TT	AA	AA	URR	101492766	Unknown function
SNP_29659_A_40883688	NC_021163.1	Ca_Kabuli_Chr04	40883688	TT	CC	CC	DRR	101410551	transfer RNA leucine (anticodon AAG)
SNP_29661_A_40891503	NC_021163.1	Ca_Kabuli_Chr04	40891503	TT	AA	AA	INTRON	101493100	elicitor-responsive protein 3-like
SNP_29663_A_40891595	NC_021163.1	Ca_Kabuli_Chr04	40891595	TT	CC	CC	INTRON	101493100	elicitor-responsive protein 3-like
SNP_29665_A_40891724	NC_021163.1	Ca_Kabuli_Chr04	40891724	AA	TT	TT	INTRON	101493100	elicitor-responsive protein 3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29666_A_40891862	NC_021163.1	Ca_Kabuli_Chr04	40891862	AA	CC	CC	INTRON	101493100	elicitor-responsive protein 3-like
SNP_29667_A_40899064	NC_021163.1	Ca_Kabuli_Chr04	40899064	GG	TT	TT	INTRON	101493427	transcriptional activator Myb-like
SNP_29669_A_40902035	NC_021163.1	Ca_Kabuli_Chr04	40902035	TT	CC	CC	URR	101493427	transcriptional activator Myb-like
SNP_29670_A_40902038	NC_021163.1	Ca_Kabuli_Chr04	40902038	TT	CC	CC	URR	101493427	transcriptional activator Myb-like
SNP_29671_A_40902066	NC_021163.1	Ca_Kabuli_Chr04	40902066	CC	TT	TT	URR	101493427	transcriptional activator Myb-like
SNP_29674_A_40911249	NC_021163.1	Ca_Kabuli_Chr04	40911249	TT	CC	CC	INTRON	101504060	uncharacterized LOC101504060
SNP_29675_A_40911326	NC_021163.1	Ca_Kabuli_Chr04	40911326	GG	AA	AA	INTRON	101504060	uncharacterized LOC101504060
SNP_29676_A_40911658	NC_021163.1	Ca_Kabuli_Chr04	40911658	TT	CC	CC	INTRON	101504060	uncharacterized LOC101504060
SNP_29677_A_40913200	NC_021163.1	Ca_Kabuli_Chr04	40913200	GG	CC	CC	INTRON	101504060	uncharacterized LOC101504060
SNP_29678_A_40914691	NC_021163.1	Ca_Kabuli_Chr04	40914691	CC	GG	GG	INTRON	101504060	uncharacterized LOC101504060
SNP_29679_A_40916282	NC_021163.1	Ca_Kabuli_Chr04	40916282	AA	TT	TT	INTRON	101504060	uncharacterized LOC101504060
SNP_29680_A_40919165	NC_021163.1	Ca_Kabuli_Chr04	40919165	AA	GG	GG	INTRON	101504060	uncharacterized LOC101504060
SNP_29681_A_40919196	NC_021163.1	Ca_Kabuli_Chr04	40919196	TT	CC	CC	INTRON	101504060	uncharacterized LOC101504060
SNP_29682_A_40919728	NC_021163.1	Ca_Kabuli_Chr04	40919728	AA	TT	TT	NON_SYNONYMOUS_CODING	101504060	uncharacterized LOC101504060
SNP_29683_A_40926669	NC_021163.1	Ca_Kabuli_Chr04	40926669	GG	AA	AA	INTERGENIC		
SNP_29684_A_40926747	NC_021163.1	Ca_Kabuli_Chr04	40926747	TT	CC	CC	INTERGENIC		
SNP_29685_A_40927161	NC_021163.1	Ca_Kabuli_Chr04	40927161	TT	CC	CC	INTERGENIC		
SNP_29687_A_40930155	NC_021163.1	Ca_Kabuli_Chr04	40930155	CC	TT	TT	INTRON	101504372	basic leucine zipper 9
SNP_29688_A_40931433	NC_021163.1	Ca_Kabuli_Chr04	40931433	AA	CC	CC	INTRON	101504372	basic leucine zipper 9
SNP_29690_A_40933390	NC_021163.1	Ca_Kabuli_Chr04	40933390	AA	TT	TT	URR	101504372	basic leucine zipper 9
SNP_29691_A_40933614	NC_021163.1	Ca_Kabuli_Chr04	40933614	AA	GG	GG	URR	101504372	basic leucine zipper 9
SNP_29692_A_40934332	NC_021163.1	Ca_Kabuli_Chr04	40934332	GG	AA	AA	URR	101504372	basic leucine zipper 9

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29693_A_40934364	NC_021163.1	Ca_Kabuli_Chr04	40934364	AA	CC	CC	URR	101504372	basic leucine zipper 9
SNP_29694_A_40935297	NC_021163.1	Ca_Kabuli_Chr04	40935297	GG	AA	AA	URR	101504372	basic leucine zipper 9
SNP_29695_A_40935323	NC_021163.1	Ca_Kabuli_Chr04	40935323	AA	GG	GG	URR	101504372	basic leucine zipper 9
SNP_29696_A_40935330	NC_021163.1	Ca_Kabuli_Chr04	40935330	GG	AA	AA	URR	101504372	basic leucine zipper 9
SNP_29699_A_40937526	NC_021163.1	Ca_Kabuli_Chr04	40937526	CC	TT	TT	INTERGENIC		
SNP_29700_A_40937527	NC_021163.1	Ca_Kabuli_Chr04	40937527	GG	AA	AA	INTERGENIC		
SNP_29701_A_40938992	NC_021163.1	Ca_Kabuli_Chr04	40938992	CC	AA	AA	INTERGENIC		
SNP_29702_A_40939018	NC_021163.1	Ca_Kabuli_Chr04	40939018	GG	AA	AA	INTERGENIC		
SNP_29704_A_40949761	NC_021163.1	Ca_Kabuli_Chr04	40949761	GG	AA	AA	INTRON	101505025	uncharacterized LOC101505025
SNP_29705_A_40950320	NC_021163.1	Ca_Kabuli_Chr04	40950320	GG	TT	TT	INTRON	101505025	uncharacterized LOC101505025
SNP_29706_A_40950452	NC_021163.1	Ca_Kabuli_Chr04	40950452	GG	AA	AA	INTRON	101505025	uncharacterized LOC101505025
SNP_29707_A_40950637	NC_021163.1	Ca_Kabuli_Chr04	40950637	TT	AA	AA	SYNONYMOUS_CODING	101505025	uncharacterized LOC101505025
SNP_29708_A_40954163	NC_021163.1	Ca_Kabuli_Chr04	40954163	GG	AA	AA	INTERGENIC		
SNP_29709_A_40955348	NC_021163.1	Ca_Kabuli_Chr04	40955348	CC	TT	TT	INTERGENIC		
SNP_29710_A_40955379	NC_021163.1	Ca_Kabuli_Chr04	40955379	AA	CC	CC	INTERGENIC		
SNP_29711_A_40955767	NC_021163.1	Ca_Kabuli_Chr04	40955767	AA	GG	GG	INTERGENIC		
SNP_29712_A_40955903	NC_021163.1	Ca_Kabuli_Chr04	40955903	GG	TT	TT	INTERGENIC		
SNP_29713_A_40955956	NC_021163.1	Ca_Kabuli_Chr04	40955956	GG	AA	AA	INTERGENIC		
SNP_29714_A_40956033	NC_021163.1	Ca_Kabuli_Chr04	40956033	AA	GG	GG	INTERGENIC		
SNP_29715_A_40957565	NC_021163.1	Ca_Kabuli_Chr04	40957565	GG	TT	TT	INTERGENIC		
SNP_29717_A_40959042	NC_021163.1	Ca_Kabuli_Chr04	40959042	TT	CC	CC	INTERGENIC		
SNP_29718_A_40959080	NC_021163.1	Ca_Kabuli_Chr04	40959080	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_29719_A_40959087	NC_021163.1	Ca_Kabuli_Chr04	40959087	AA	CC	CC	INTERGENIC			
SNP_29720_A_40959110	NC_021163.1	Ca_Kabuli_Chr04	40959110	CC	TT	TT	INTERGENIC			
SNP_29721_A_40963211	NC_021163.1	Ca_Kabuli_Chr04	40963211	GG	TT	TT	INTERGENIC			
SNP_29722_A_40966046	NC_021163.1	Ca_Kabuli_Chr04	40966046	TT	AA	AA	INTERGENIC			
SNP_29723_A_40966419	NC_021163.1	Ca_Kabuli_Chr04	40966419	CC	GG	GG	INTERGENIC			
SNP_29725_A_40967715	NC_021163.1	Ca_Kabuli_Chr04	40967715	GG	AA	AA	INTERGENIC			
SNP_29726_A_40968003	NC_021163.1	Ca_Kabuli_Chr04	40968003	AA	GG	GG	INTERGENIC			
SNP_29727_A_40968230	NC_021163.1	Ca_Kabuli_Chr04	40968230	CC	TT	TT	INTERGENIC			
SNP_29728_A_40968426	NC_021163.1	Ca_Kabuli_Chr04	40968426	GG	TT	TT	INTERGENIC			
SNP_29729_A_40968600	NC_021163.1	Ca_Kabuli_Chr04	40968600	CC	TT	TT	INTERGENIC			
SNP_29730_A_40968705	NC_021163.1	Ca_Kabuli_Chr04	40968705	GG	AA	AA	INTERGENIC			
SNP_29731_A_40968766	NC_021163.1	Ca_Kabuli_Chr04	40968766	CC	GG	GG	INTERGENIC			
SNP_29734_A_40969350	NC_021163.1	Ca_Kabuli_Chr04	40969350	TT	GG	GG	INTERGENIC			
SNP_29735_A_40969383	NC_021163.1	Ca_Kabuli_Chr04	40969383	AA	CC	CC	INTERGENIC			
SNP_29736_A_40969626	NC_021163.1	Ca_Kabuli_Chr04	40969626	CC	TT	TT	INTERGENIC			
SNP_29737_A_40969632	NC_021163.1	Ca_Kabuli_Chr04	40969632	TT	CC	CC	INTERGENIC			
SNP_29738_A_40972028	NC_021163.1	Ca_Kabuli_Chr04	40972028	CC	TT	TT	INTERGENIC			
SNP_29739_A_40972058	NC_021163.1	Ca_Kabuli_Chr04	40972058	TT	AA	AA	INTERGENIC			
SNP_29740_A_40972115	NC_021163.1	Ca_Kabuli_Chr04	40972115	TT	CC	CC	INTERGENIC			
SNP_29741_A_40972359	NC_021163.1	Ca_Kabuli_Chr04	40972359	TT	CC	CC	INTERGENIC			
SNP_29742_A_40974198	NC_021163.1	Ca_Kabuli_Chr04	40974198	TT	CC	CC	INTERGENIC			
SNP_29743_A_40974200	NC_021163.1	Ca_Kabuli_Chr04	40974200	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_29744_A_40974270	NC_021163.1	Ca_Kabuli_Chr04	40974270	GG	AA	AA	INTERGENIC			
SNP_29745_A_40974484	NC_021163.1	Ca_Kabuli_Chr04	40974484	TT	CC	CC	INTERGENIC			
SNP_29746_A_40976654	NC_021163.1	Ca_Kabuli_Chr04	40976654	AA	GG	GG	INTERGENIC			
SNP_29747_A_40976749	NC_021163.1	Ca_Kabuli_Chr04	40976749	CC	TT	TT	INTERGENIC			
SNP_29748_A_40977295	NC_021163.1	Ca_Kabuli_Chr04	40977295	CC	TT	TT	INTERGENIC			
SNP_29749_A_40978300	NC_021163.1	Ca_Kabuli_Chr04	40978300	CC	AA	AA	INTERGENIC			
SNP_29750_A_40978329	NC_021163.1	Ca_Kabuli_Chr04	40978329	TT	GG	GG	INTERGENIC			
SNP_29751_A_40982157	NC_021163.1	Ca_Kabuli_Chr04	40982157	CC	TT	TT	INTERGENIC			
SNP_29752_A_40982191	NC_021163.1	Ca_Kabuli_Chr04	40982191	CC	TT	TT	INTERGENIC			
SNP_29753_A_40982217	NC_021163.1	Ca_Kabuli_Chr04	40982217	AA	GG	GG	INTERGENIC			
SNP_29754_A_40982228	NC_021163.1	Ca_Kabuli_Chr04	40982228	AA	GG	GG	INTERGENIC			
SNP_29755_A_40982233	NC_021163.1	Ca_Kabuli_Chr04	40982233	CC	TT	TT	INTERGENIC			
SNP_29756_A_40982236	NC_021163.1	Ca_Kabuli_Chr04	40982236	TT	CC	CC	INTERGENIC			
SNP_29757_A_40982388	NC_021163.1	Ca_Kabuli_Chr04	40982388	TT	GG	GG	INTERGENIC			
SNP_29758_A_40982419	NC_021163.1	Ca_Kabuli_Chr04	40982419	TT	AA	AA	INTERGENIC			
SNP_29759_A_40982420	NC_021163.1	Ca_Kabuli_Chr04	40982420	TT	CC	CC	INTERGENIC			
SNP_29760_A_40982478	NC_021163.1	Ca_Kabuli_Chr04	40982478	CC	TT	TT	INTERGENIC			
SNP_29761_A_40984550	NC_021163.1	Ca_Kabuli_Chr04	40984550	AA	TT	TT	INTERGENIC			
SNP_29762_A_40988747	NC_021163.1	Ca_Kabuli_Chr04	40988747	TT	GG	GG	INTERGENIC			
SNP_29763_A_40990470	NC_021163.1	Ca_Kabuli_Chr04	40990470	GG	AA	AA	INTERGENIC			
SNP_29764_A_40990480	NC_021163.1	Ca_Kabuli_Chr04	40990480	TT	GG	GG	INTERGENIC			
SNP_29765_A_40996341	NC_021163.1	Ca_Kabuli_Chr04	40996341	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_29767_A_40996610	NC_021163.1	Ca_Kabuli_Chr04	40996610	GG	TT	TT	INTERGENIC			
SNP_29768_A_40996645	NC_021163.1	Ca_Kabuli_Chr04	40996645	TT	AA	AA	INTERGENIC			
SNP_29769_A_40996709	NC_021163.1	Ca_Kabuli_Chr04	40996709	CC	TT	TT	INTERGENIC			
SNP_29770_A_40996966	NC_021163.1	Ca_Kabuli_Chr04	40996966	GG	AA	AA	INTERGENIC			
SNP_29772_A_40997128	NC_021163.1	Ca_Kabuli_Chr04	40997128	CC	AA	AA	INTERGENIC			
SNP_29773_A_40997149	NC_021163.1	Ca_Kabuli_Chr04	40997149	TT	GG	GG	INTERGENIC			
SNP_29775_A_40998920	NC_021163.1	Ca_Kabuli_Chr04	40998920	TT	CC	CC	INTERGENIC			
SNP_29776_A_40998946	NC_021163.1	Ca_Kabuli_Chr04	40998946	TT	CC	CC	INTERGENIC			
SNP_29777_A_40999191	NC_021163.1	Ca_Kabuli_Chr04	40999191	GG	AA	AA	INTERGENIC			
SNP_29778_A_41000426	NC_021163.1	Ca_Kabuli_Chr04	41000426	CC	TT	TT	INTERGENIC			
SNP_29779_A_41000546	NC_021163.1	Ca_Kabuli_Chr04	41000546	AA	GG	GG	INTERGENIC			
SNP_29780_A_41002243	NC_021163.1	Ca_Kabuli_Chr04	41002243	GG	AA	AA	INTERGENIC			
SNP_29781_A_41002253	NC_021163.1	Ca_Kabuli_Chr04	41002253	CC	GG	GG	INTERGENIC			
SNP_29782_A_41006773	NC_021163.1	Ca_Kabuli_Chr04	41006773	CC	TT	TT	INTERGENIC			
SNP_29783_A_41006781	NC_021163.1	Ca_Kabuli_Chr04	41006781	TT	AA	AA	INTERGENIC			
SNP_29784_A_41007026	NC_021163.1	Ca_Kabuli_Chr04	41007026	AA	GG	GG	INTERGENIC			
SNP_29785_A_41007040	NC_021163.1	Ca_Kabuli_Chr04	41007040	AA	GG	GG	INTERGENIC			
SNP_29786_A_41007042	NC_021163.1	Ca_Kabuli_Chr04	41007042	AA	GG	GG	INTERGENIC			
SNP_29787_A_41007052	NC_021163.1	Ca_Kabuli_Chr04	41007052	TT	GG	GG	INTERGENIC			
SNP_29788_A_41007074	NC_021163.1	Ca_Kabuli_Chr04	41007074	GG	AA	AA	INTERGENIC			
SNP_29789_A_41007080	NC_021163.1	Ca_Kabuli_Chr04	41007080	GG	CC	CC	INTERGENIC			
SNP_29790_A_41007085	NC_021163.1	Ca_Kabuli_Chr04	41007085	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29791_A_41007146	NC_021163.1	Ca_Kabuli_Chr04	41007146	CC	AA	AA	INTERGENIC		
SNP_29792_A_41007745	NC_021163.1	Ca_Kabuli_Chr04	41007745	CC	TT	TT	INTERGENIC		
SNP_29793_A_41010995	NC_021163.1	Ca_Kabuli_Chr04	41010995	AA	TT	TT	INTERGENIC		
SNP_29794_A_41012156	NC_021163.1	Ca_Kabuli_Chr04	41012156	TT	GG	GG	DRR	101505346	uncharacterized LOC101505346
SNP_29795_A_41013373	NC_021163.1	Ca_Kabuli_Chr04	41013373	AA	GG	GG	SYNONYMOUS_CODING	101505346	uncharacterized LOC101505346
SNP_29796_A_41013428	NC_021163.1	Ca_Kabuli_Chr04	41013428	CC	TT	TT	URR	101505346	uncharacterized LOC101505346
SNP_29797_A_41015646	NC_021163.1	Ca_Kabuli_Chr04	41015646	TT	CC	CC	INTERGENIC		
SNP_29798_A_41015652	NC_021163.1	Ca_Kabuli_Chr04	41015652	AA	GG	GG	INTERGENIC		
SNP_29799_A_41015670	NC_021163.1	Ca_Kabuli_Chr04	41015670	AA	TT	TT	INTERGENIC		
SNP_29800_A_41015706	NC_021163.1	Ca_Kabuli_Chr04	41015706	GG	CC	CC	INTERGENIC		
SNP_29802_A_41016412	NC_021163.1	Ca_Kabuli_Chr04	41016412	GG	CC	CC	INTERGENIC		
SNP_29803_A_41016744	NC_021163.1	Ca_Kabuli_Chr04	41016744	AA	CC	CC	INTERGENIC		
SNP_29806_A_41124768	NC_021163.1	Ca_Kabuli_Chr04	41124768	TT	AA	AA	INTRON	101508669	serine/arginine-rich splicing factor RSZ22
SNP_29807_A_41126152	NC_021163.1	Ca_Kabuli_Chr04	41126152	AA	TT	TT	INTRON	101508669	serine/arginine-rich splicing factor RSZ22
SNP_29808_A_41158060	NC_021163.1	Ca_Kabuli_Chr04	41158060	TT	CC	CC	INTERGENIC		
SNP_29810_A_41161022	NC_021163.1	Ca_Kabuli_Chr04	41161022	CC	TT	TT	INTERGENIC		
SNP_29811_A_41172737	NC_021163.1	Ca_Kabuli_Chr04	41172737	AA	GG	GG	INTERGENIC		
SNP_29812_A_41176389	NC_021163.1	Ca_Kabuli_Chr04	41176389	AA	GG	GG	INTERGENIC		
SNP_29813_A_41245162	NC_021163.1	Ca_Kabuli_Chr04	41245162	AA	GG	GG	INTERGENIC		
SNP_29814_A_41245174	NC_021163.1	Ca_Kabuli_Chr04	41245174	CC	AA	AA	INTERGENIC		
SNP_29815_A_41246812	NC_021163.1	Ca_Kabuli_Chr04	41246812	AA	CC	CC	INTERGENIC		
SNP_29816_A_41247087	NC_021163.1	Ca_Kabuli_Chr04	41247087	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29818_A_41367764	NC_021163.1	Ca_Kabuli_Chr04	41367764	AA	GG	GG	INTERGENIC		
SNP_29819_A_41478524	NC_021163.1	Ca_Kabuli_Chr04	41478524	AA	CC	CC	INTERGENIC		
SNP_29820_A_41495464	NC_021163.1	Ca_Kabuli_Chr04	41495464	TT	GG	GG	INTERGENIC		
SNP_29821_A_41578384	NC_021163.1	Ca_Kabuli_Chr04	41578384	GG	AA	AA	DRR	101496652	protein FAR1-RELATED SEQUENCE 7-like
SNP_29822_A_41615136	NC_021163.1	Ca_Kabuli_Chr04	41615136	GG	CC	CC	INTERGENIC		
SNP_29823_A_41624975	NC_021163.1	Ca_Kabuli_Chr04	41624975	GG	AA	AA	DRR	101496966	RING finger and CHY zinc finger domain-containing protein 1-like
SNP_29824_A_41646106	NC_021163.1	Ca_Kabuli_Chr04	41646106	AA	GG	GG	INTERGENIC		
SNP_29825_A_41660890	NC_021163.1	Ca_Kabuli_Chr04	41660890	CC	TT	TT	INTERGENIC		
SNP_29826_A_41696034	NC_021163.1	Ca_Kabuli_Chr04	41696034	AA	GG	GG	URR	101499268	probable ADP-ribosylation factor GTPase-activating protein AGD14
SNP_29828_A_41810267	NC_021163.1	Ca_Kabuli_Chr04	41810267	GG	AA	AA	INTERGENIC		
SNP_29829_A_41824656	NC_021163.1	Ca_Kabuli_Chr04	41824656	AA	GG	GG	DRR	101498613	uncharacterized LOC101498613
SNP_29830_A_41829938	NC_021163.1	Ca_Kabuli_Chr04	41829938	TT	CC	CC	INTERGENIC		
SNP_29831_A_41888464	NC_021163.1	Ca_Kabuli_Chr04	41888464	TT	AA	AA	URR	101504495	probable indole-3-pyruvate monooxygenase YUCCA4
SNP_29832_A_41912580	NC_021163.1	Ca_Kabuli_Chr04	41912580	AA	CC	CC	INTERGENIC		
SNP_29833_A_41930750	NC_021163.1	Ca_Kabuli_Chr04	41930750	CC	TT	TT	DRR	101505347	pleiotropic drug resistance protein 1-like
SNP_29834_A_41983293	NC_021163.1	Ca_Kabuli_Chr04	41983293	GG	AA	AA	URR	101499890	serine/threonine-protein phosphatase 7 long form homolog
SNP_29835_A_42013050	NC_021163.1	Ca_Kabuli_Chr04	42013050	AA	TT	TT	DRR	101508456	cytochrome b-c1 complex subunit 7-2-like
SNP_29836_A_42018363	NC_021163.1	Ca_Kabuli_Chr04	42018363	CC	GG	GG	INTERGENIC		
SNP_29837_A_42034865	NC_021163.1	Ca_Kabuli_Chr04	42034865	TT	AA	AA	INTERGENIC		
SNP_29838_A_42034874	NC_021163.1	Ca_Kabuli_Chr04	42034874	TT	AA	AA	INTERGENIC		
SNP_29839_A_42034875	NC_021163.1	Ca_Kabuli_Chr04	42034875	AA	TT	TT	INTERGENIC		
SNP_29840_A_42034876	NC_021163.1	Ca_Kabuli_Chr04	42034876	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29841_A_42039236	NC_021163.1	Ca_Kabuli_Chr04	42039236	AA	TT	TT	INTERGENIC		
SNP_29843_A_42078837	NC_021163.1	Ca_Kabuli_Chr04	42078837	TT	CC	CC	DRR	101500538	exopolygalacturonase-like
SNP_29844_A_42078844	NC_021163.1	Ca_Kabuli_Chr04	42078844	CC	TT	TT	DRR	101500538	exopolygalacturonase-like
SNP_29845_A_42078865	NC_021163.1	Ca_Kabuli_Chr04	42078865	AA	TT	TT	DRR	101500538	exopolygalacturonase-like
SNP_29847_A_42083393	NC_021163.1	Ca_Kabuli_Chr04	42083393	AA	TT	TT	INTRON	101500538	exopolygalacturonase-like
SNP_29848_A_42083487	NC_021163.1	Ca_Kabuli_Chr04	42083487	TT	AA	AA	INTERGENIC		
SNP_29849_A_42083506	NC_021163.1	Ca_Kabuli_Chr04	42083506	AA	GG	GG	INTERGENIC		
SNP_29850_A_42083557	NC_021163.1	Ca_Kabuli_Chr04	42083557	CC	GG	GG	INTERGENIC		
SNP_29851_A_42083558	NC_021163.1	Ca_Kabuli_Chr04	42083558	GG	AA	AA	INTERGENIC		
SNP_29852_A_42083560	NC_021163.1	Ca_Kabuli_Chr04	42083560	CC	AA	AA	INTERGENIC		
SNP_29853_A_42083601	NC_021163.1	Ca_Kabuli_Chr04	42083601	TT	CC	CC	INTERGENIC		
SNP_29854_A_42083770	NC_021163.1	Ca_Kabuli_Chr04	42083770	TT	CC	CC	INTERGENIC		
SNP_29855_A_42083840	NC_021163.1	Ca_Kabuli_Chr04	42083840	GG	AA	AA	INTERGENIC		
SNP_29856_A_42086459	NC_021163.1	Ca_Kabuli_Chr04	42086459	CC	AA	AA	INTERGENIC		
SNP_29857_A_42095853	NC_021163.1	Ca_Kabuli_Chr04	42095853	TT	CC	CC	INTERGENIC		
SNP_29858_A_42119016	NC_021163.1	Ca_Kabuli_Chr04	42119016	AA	CC	CC	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29859_A_42119020	NC_021163.1	Ca_Kabuli_Chr04	42119020	TT	AA	AA	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29860_A_42119024	NC_021163.1	Ca_Kabuli_Chr04	42119024	CC	TT	TT	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29861_A_42119025	NC_021163.1	Ca_Kabuli_Chr04	42119025	CC	TT	TT	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29862_A_42119027	NC_021163.1	Ca_Kabuli_Chr04	42119027	CC	GG	GG	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29863_A_42119062	NC_021163.1	Ca_Kabuli_Chr04	42119062	AA	GG	GG	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29864_A_42119130	NC_021163.1	Ca_Kabuli_Chr04	42119130	TT	AA	AA	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29865_A_42119215	NC_021163.1	Ca_Kabuli_Chr04	42119215	AA	GG	GG	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29866_A_42119232	NC_021163.1	Ca_Kabuli_Chr04	42119232	AA	CC	CC	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29867_A_42119269	NC_021163.1	Ca_Kabuli_Chr04	42119269	CC	TT	TT	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29868_A_42119401	NC_021163.1	Ca_Kabuli_Chr04	42119401	CC	GG	GG	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29869_A_42119423	NC_021163.1	Ca_Kabuli_Chr04	42119423	GG	AA	AA	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29870_A_42119513	NC_021163.1	Ca_Kabuli_Chr04	42119513	TT	GG	GG	URR	101511128	pentatricopeptide repeat-containing protein At4g21065-like
SNP_29871_A_42119554	NC_021163.1	Ca_Kabuli_Chr04	42119554	GG	TT	TT	INTERGENIC		
SNP_29872_A_42119704	NC_021163.1	Ca_Kabuli_Chr04	42119704	TT	AA	AA	INTERGENIC		
SNP_29873_A_42119716	NC_021163.1	Ca_Kabuli_Chr04	42119716	GG	AA	AA	INTERGENIC		
SNP_29874_A_42119757	NC_021163.1	Ca_Kabuli_Chr04	42119757	GG	AA	AA	INTERGENIC		
SNP_29875_A_42119889	NC_021163.1	Ca_Kabuli_Chr04	42119889	AA	CC	CC	INTERGENIC		
SNP_29876_A_42119936	NC_021163.1	Ca_Kabuli_Chr04	42119936	GG	CC	CC	INTERGENIC		
SNP_29877_A_42119945	NC_021163.1	Ca_Kabuli_Chr04	42119945	TT	AA	AA	INTERGENIC		
SNP_29878_A_42120012	NC_021163.1	Ca_Kabuli_Chr04	42120012	CC	GG	GG	INTERGENIC		
SNP_29879_A_42120055	NC_021163.1	Ca_Kabuli_Chr04	42120055	AA	GG	GG	INTERGENIC		
SNP_29880_A_42120201	NC_021163.1	Ca_Kabuli_Chr04	42120201	GG	CC	CC	INTERGENIC		
SNP_29881_A_42120202	NC_021163.1	Ca_Kabuli_Chr04	42120202	GG	TT	TT	INTERGENIC		
SNP_29882_A_42120203	NC_021163.1	Ca_Kabuli_Chr04	42120203	AA	GG	GG	INTERGENIC		
SNP_29883_A_42120236	NC_021163.1	Ca_Kabuli_Chr04	42120236	TT	CC	CC	INTERGENIC		
SNP_29884_A_42120290	NC_021163.1	Ca_Kabuli_Chr04	42120290	CC	TT	TT	INTERGENIC		
SNP_29885_A_42120295	NC_021163.1	Ca_Kabuli_Chr04	42120295	AA	GG	GG	INTERGENIC		
SNP_29886_A_42120323	NC_021163.1	Ca_Kabuli_Chr04	42120323	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29887_A_42120377	NC_021163.1	Ca_Kabuli_Chr04	42120377	GG	AA	AA	INTERGENIC		
SNP_29888_A_42120426	NC_021163.1	Ca_Kabuli_Chr04	42120426	AA	GG	GG	INTERGENIC		
SNP_29890_A_42120452	NC_021163.1	Ca_Kabuli_Chr04	42120452	TT	CC	CC	INTERGENIC		
SNP_29892_A_42120505	NC_021163.1	Ca_Kabuli_Chr04	42120505	GG	AA	AA	INTERGENIC		
SNP_29893_A_42120649	NC_021163.1	Ca_Kabuli_Chr04	42120649	CC	AA	AA	INTERGENIC		
SNP_29894_A_42120655	NC_021163.1	Ca_Kabuli_Chr04	42120655	GG	TT	TT	INTERGENIC		
SNP_29895_A_42147955	NC_021163.1	Ca_Kabuli_Chr04	42147955	TT	AA	AA	INTERGENIC		
SNP_29896_A_42147961	NC_021163.1	Ca_Kabuli_Chr04	42147961	TT	CC	CC	INTERGENIC		
SNP_29897_A_42148102	NC_021163.1	Ca_Kabuli_Chr04	42148102	AA	GG	GG	INTERGENIC		
SNP_29898_A_42148118	NC_021163.1	Ca_Kabuli_Chr04	42148118	AA	GG	GG	INTERGENIC		
SNP_29899_A_42148119	NC_021163.1	Ca_Kabuli_Chr04	42148119	TT	CC	CC	INTERGENIC		
SNP_29900_A_42148121	NC_021163.1	Ca_Kabuli_Chr04	42148121	TT	GG	GG	INTERGENIC		
SNP_29901_A_42148122	NC_021163.1	Ca_Kabuli_Chr04	42148122	TT	AA	AA	INTERGENIC		
SNP_29902_A_42148229	NC_021163.1	Ca_Kabuli_Chr04	42148229	TT	CC	CC	INTERGENIC		
SNP_29903_A_42196134	NC_021163.1	Ca_Kabuli_Chr04	42196134	TT	AA	AA	INTRON	101513603	THO complex subunit 1
SNP_29904_A_42259780	NC_021163.1	Ca_Kabuli_Chr04	42259780	TT	GG	GG	INTERGENIC		
SNP_29905_A_42259788	NC_021163.1	Ca_Kabuli_Chr04	42259788	AA	GG	GG	INTERGENIC		
SNP_29906_A_42259802	NC_021163.1	Ca_Kabuli_Chr04	42259802	TT	GG	GG	INTERGENIC		
SNP_29907_A_42259808	NC_021163.1	Ca_Kabuli_Chr04	42259808	GG	AA	AA	INTERGENIC		
SNP_29908_A_42284904	NC_021163.1	Ca_Kabuli_Chr04	42284904	AA	GG	GG	INTERGENIC		
SNP_29909_A_42285202	NC_021163.1	Ca_Kabuli_Chr04	42285202	TT	CC	CC	INTERGENIC		
SNP_29910_A_42285380	NC_021163.1	Ca_Kabuli_Chr04	42285380	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29911_A_42285407	NC_021163.1	Ca_Kabuli_Chr04	42285407	GG	AA	AA	INTERGENIC		
SNP_29912_A_42286597	NC_021163.1	Ca_Kabuli_Chr04	42286597	GG	CC	CC	INTERGENIC		
SNP_29913_A_42305917	NC_021163.1	Ca_Kabuli_Chr04	42305917	GG	AA	AA	INTERGENIC		
SNP_29916_A_42407140	NC_021163.1	Ca_Kabuli_Chr04	42407140	AA	GG	GG	INTERGENIC		
SNP_29917_A_42407151	NC_021163.1	Ca_Kabuli_Chr04	42407151	TT	CC	CC	INTERGENIC		
SNP_29918_A_42439251	NC_021163.1	Ca_Kabuli_Chr04	42439251	TT	CC	CC	INTERGENIC		
SNP_29919_A_42439297	NC_021163.1	Ca_Kabuli_Chr04	42439297	AA	CC	CC	INTERGENIC		
SNP_29920_A_42439353	NC_021163.1	Ca_Kabuli_Chr04	42439353	TT	GG	GG	INTERGENIC		
SNP_29921_A_42439589	NC_021163.1	Ca_Kabuli_Chr04	42439589	AA	GG	GG	INTERGENIC		
SNP_29922_A_42439613	NC_021163.1	Ca_Kabuli_Chr04	42439613	TT	CC	CC	INTERGENIC		
SNP_29923_A_42439694	NC_021163.1	Ca_Kabuli_Chr04	42439694	GG	AA	AA	INTERGENIC		
SNP_29924_A_42445514	NC_021163.1	Ca_Kabuli_Chr04	42445514	GG	TT	TT	INTERGENIC		
SNP_29925_A_42477586	NC_021163.1	Ca_Kabuli_Chr04	42477586	CC	TT	TT	INTERGENIC		
SNP_29926_A_42507696	NC_021163.1	Ca_Kabuli_Chr04	42507696	AA	CC	CC	INTRON	101489954	E3 ubiquitin-protein ligase KEG
SNP_29927_A_42507705	NC_021163.1	Ca_Kabuli_Chr04	42507705	TT	CC	CC	INTRON	101489954	E3 ubiquitin-protein ligase KEG
SNP_29928_A_42517079	NC_021163.1	Ca_Kabuli_Chr04	42517079	AA	GG	GG	INTERGENIC		
SNP_29930_A_42546825	NC_021163.1	Ca_Kabuli_Chr04	42546825	AA	CC	CC	INTERGENIC		
SNP_29931_A_42546842	NC_021163.1	Ca_Kabuli_Chr04	42546842	TT	GG	GG	INTERGENIC		
SNP_29934_A_42561382	NC_021163.1	Ca_Kabuli_Chr04	42561382	AA	TT	TT	INTERGENIC		
SNP_29935_A_42561400	NC_021163.1	Ca_Kabuli_Chr04	42561400	CC	TT	TT	INTERGENIC		
SNP_29936_A_42561444	NC_021163.1	Ca_Kabuli_Chr04	42561444	AA	GG	GG	INTERGENIC		
SNP_29937_A_42580703	NC_021163.1	Ca_Kabuli_Chr04	42580703	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29938_A_42580795	NC_021163.1	Ca_Kabuli_Chr04	42580795	AA	GG	GG	INTERGENIC		
SNP_29939_A_42588557	NC_021163.1	Ca_Kabuli_Chr04	42588557	TT	CC	CC	INTERGENIC		
SNP_29940_A_42588903	NC_021163.1	Ca_Kabuli_Chr04	42588903	AA	GG	GG	INTERGENIC		
SNP_29941_A_42588937	NC_021163.1	Ca_Kabuli_Chr04	42588937	CC	TT	TT	INTERGENIC		
SNP_29942_A_42588951	NC_021163.1	Ca_Kabuli_Chr04	42588951	GG	AA	AA	INTERGENIC		
SNP_29943_A_42588975	NC_021163.1	Ca_Kabuli_Chr04	42588975	GG	AA	AA	INTERGENIC		
SNP_29944_A_42589571	NC_021163.1	Ca_Kabuli_Chr04	42589571	TT	CC	CC	INTERGENIC		
SNP_29945_A_42609857	NC_021163.1	Ca_Kabuli_Chr04	42609857	AA	GG	GG	INTERGENIC		
SNP_29947_A_42671170	NC_021163.1	Ca_Kabuli_Chr04	42671170	CC	TT	TT	INTERGENIC		
SNP_29949_A_42733231	NC_021163.1	Ca_Kabuli_Chr04	42733231	GG	AA	AA	INTERGENIC		
SNP_29950_A_42737373	NC_021163.1	Ca_Kabuli_Chr04	42737373	GG	TT	TT	INTERGENIC		
SNP_29951_A_42755287	NC_021163.1	Ca_Kabuli_Chr04	42755287	GG	AA	AA	INTERGENIC		
SNP_29952_A_42755289	NC_021163.1	Ca_Kabuli_Chr04	42755289	GG	AA	AA	INTERGENIC		
SNP_29953_A_42755291	NC_021163.1	Ca_Kabuli_Chr04	42755291	TT	GG	GG	INTERGENIC		
SNP_29954_A_42755413	NC_021163.1	Ca_Kabuli_Chr04	42755413	TT	CC	CC	INTERGENIC		
SNP_29955_A_42755511	NC_021163.1	Ca_Kabuli_Chr04	42755511	TT	CC	CC	INTERGENIC		
SNP_29956_A_42764987	NC_021163.1	Ca_Kabuli_Chr04	42764987	TT	CC	CC	INTRON	101491765	phosphatidylinositol 4-phosphate 5-kinase 6-like
SNP_29957_A_42765105	NC_021163.1	Ca_Kabuli_Chr04	42765105	TT	CC	CC	INTRON	101491765	phosphatidylinositol 4-phosphate 5-kinase 6-like
SNP_29958_A_42807518	NC_021163.1	Ca_Kabuli_Chr04	42807518	AA	GG	GG	INTERGENIC		
SNP_29959_A_42807534	NC_021163.1	Ca_Kabuli_Chr04	42807534	TT	GG	GG	INTERGENIC		
SNP_29960_A_42807539	NC_021163.1	Ca_Kabuli_Chr04	42807539	AA	GG	GG	INTERGENIC		
SNP_29961_A_42807957	NC_021163.1	Ca_Kabuli_Chr04	42807957	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_29962_A_42816710	NC_021163.1	Ca_Kabuli_Chr04	42816710	TT	AA	AA	INTRON	101504061	Unknown function
SNP_29963_A_42817819	NC_021163.1	Ca_Kabuli_Chr04	42817819	CC	TT	TT	INTRON	101504061	Unknown function
SNP_29964_A_42820788	NC_021163.1	Ca_Kabuli_Chr04	42820788	GG	AA	AA	INTERGENIC		
SNP_29965_A_42821106	NC_021163.1	Ca_Kabuli_Chr04	42821106	GG	AA	AA	INTERGENIC		
SNP_29966_A_42821130	NC_021163.1	Ca_Kabuli_Chr04	42821130	AA	CC	CC	INTERGENIC		
SNP_29967_A_42829258	NC_021163.1	Ca_Kabuli_Chr04	42829258	TT	CC	CC	INTERGENIC		
SNP_29968_A_42829263	NC_021163.1	Ca_Kabuli_Chr04	42829263	CC	TT	TT	INTERGENIC		
SNP_29969_A_42829265	NC_021163.1	Ca_Kabuli_Chr04	42829265	AA	GG	GG	INTERGENIC		
SNP_29970_A_42829346	NC_021163.1	Ca_Kabuli_Chr04	42829346	TT	CC	CC	INTERGENIC		
SNP_29971_A_42829370	NC_021163.1	Ca_Kabuli_Chr04	42829370	AA	TT	TT	INTERGENIC		
SNP_29972_A_42829710	NC_021163.1	Ca_Kabuli_Chr04	42829710	TT	CC	CC	INTERGENIC		
SNP_29973_A_42829720	NC_021163.1	Ca_Kabuli_Chr04	42829720	TT	CC	CC	INTERGENIC		
SNP_29974_A_42844531	NC_021163.1	Ca_Kabuli_Chr04	42844531	AA	TT	TT	INTERGENIC		
SNP_29975_A_42845469	NC_021163.1	Ca_Kabuli_Chr04	42845469	TT	AA	AA	INTERGENIC		
SNP_29976_A_42845517	NC_021163.1	Ca_Kabuli_Chr04	42845517	AA	CC	CC	INTERGENIC		
SNP_29977_A_42845599	NC_021163.1	Ca_Kabuli_Chr04	42845599	AA	GG	GG	INTERGENIC		
SNP_29978_A_42892600	NC_021163.1	Ca_Kabuli_Chr04	42892600	TT	GG	GG	INTERGENIC		
SNP_29979_A_42892839	NC_021163.1	Ca_Kabuli_Chr04	42892839	CC	AA	AA	INTERGENIC		
SNP_29980_A_42892850	NC_021163.1	Ca_Kabuli_Chr04	42892850	CC	TT	TT	INTERGENIC		
SNP_29981_A_42893318	NC_021163.1	Ca_Kabuli_Chr04	42893318	AA	GG	GG	INTERGENIC		
SNP_29982_A_42893382	NC_021163.1	Ca_Kabuli_Chr04	42893382	TT	AA	AA	INTERGENIC		
SNP_29983_A_42893394	NC_021163.1	Ca_Kabuli_Chr04	42893394	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_29984_A_42893400	NC_021163.1	Ca_Kabuli_Chr04	42893400	GG	AA	AA	INTERGENIC			
SNP_29985_A_42897101	NC_021163.1	Ca_Kabuli_Chr04	42897101	AA	GG	GG	INTERGENIC			
SNP_29986_A_42904493	NC_021163.1	Ca_Kabuli_Chr04	42904493	TT	AA	AA	INTERGENIC			
SNP_29988_A_42947372	NC_021163.1	Ca_Kabuli_Chr04	42947372	AA	CC	CC	INTERGENIC			
SNP_29989_A_42947414	NC_021163.1	Ca_Kabuli_Chr04	42947414	TT	CC	CC	INTERGENIC			
SNP_29990_A_42947519	NC_021163.1	Ca_Kabuli_Chr04	42947519	AA	TT	TT	INTERGENIC			
SNP_29991_A_42973919	NC_021163.1	Ca_Kabuli_Chr04	42973919	CC	TT	TT	INTERGENIC			
SNP_29992_A_42973982	NC_021163.1	Ca_Kabuli_Chr04	42973982	TT	CC	CC	INTERGENIC			
SNP_29993_A_43002069	NC_021163.1	Ca_Kabuli_Chr04	43002069	AA	CC	CC	INTERGENIC			
SNP_29994_A_43002146	NC_021163.1	Ca_Kabuli_Chr04	43002146	AA	GG	GG	INTERGENIC			
SNP_29995_A_43002155	NC_021163.1	Ca_Kabuli_Chr04	43002155	GG	TT	TT	INTERGENIC			
SNP_29996_A_43002184	NC_021163.1	Ca_Kabuli_Chr04	43002184	AA	GG	GG	INTERGENIC			
SNP_29997_A_43002200	NC_021163.1	Ca_Kabuli_Chr04	43002200	CC	TT	TT	INTERGENIC			
SNP_29998_A_43002309	NC_021163.1	Ca_Kabuli_Chr04	43002309	AA	TT	TT	INTERGENIC			
SNP_29999_A_43002331	NC_021163.1	Ca_Kabuli_Chr04	43002331	AA	TT	TT	INTERGENIC			
SNP_30000_A_43002349	NC_021163.1	Ca_Kabuli_Chr04	43002349	AA	TT	TT	INTERGENIC			
SNP_30001_A_43002463	NC_021163.1	Ca_Kabuli_Chr04	43002463	GG	TT	TT	INTERGENIC			
SNP_30002_A_43002611	NC_021163.1	Ca_Kabuli_Chr04	43002611	TT	CC	CC	INTERGENIC			
SNP_30003_A_43005274	NC_021163.1	Ca_Kabuli_Chr04	43005274	GG	AA	AA	INTERGENIC			
SNP_30005_A_43006059	NC_021163.1	Ca_Kabuli_Chr04	43006059	GG	TT	TT	INTERGENIC			
SNP_30006_A_43006101	NC_021163.1	Ca_Kabuli_Chr04	43006101	GG	AA	AA	INTERGENIC			
SNP_30007_A_43006123	NC_021163.1	Ca_Kabuli_Chr04	43006123	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30008_A_43009914	NC_021163.1	Ca_Kabuli_Chr04	43009914	TT	AA	AA	INTERGENIC			
SNP_30009_A_43009986	NC_021163.1	Ca_Kabuli_Chr04	43009986	GG	TT	TT	INTERGENIC			
SNP_30010_A_43010396	NC_021163.1	Ca_Kabuli_Chr04	43010396	GG	AA	AA	INTERGENIC			
SNP_30011_A_43015191	NC_021163.1	Ca_Kabuli_Chr04	43015191	CC	TT	TT	INTERGENIC			
SNP_30012_A_43030798	NC_021163.1	Ca_Kabuli_Chr04	43030798	GG	AA	AA	INTERGENIC			
SNP_30013_A_43032487	NC_021163.1	Ca_Kabuli_Chr04	43032487	TT	CC	CC	INTERGENIC			
SNP_30014_A_43064526	NC_021163.1	Ca_Kabuli_Chr04	43064526	AA	GG	GG	INTERGENIC			
SNP_30015_A_43082224	NC_021163.1	Ca_Kabuli_Chr04	43082224	AA	CC	CC	INTERGENIC			
SNP_30016_A_43082453	NC_021163.1	Ca_Kabuli_Chr04	43082453	GG	AA	AA	INTERGENIC			
SNP_30017_A_43082643	NC_021163.1	Ca_Kabuli_Chr04	43082643	CC	TT	TT	INTERGENIC			
SNP_30018_A_43083696	NC_021163.1	Ca_Kabuli_Chr04	43083696	CC	AA	AA	INTERGENIC			
SNP_30019_A_43093192	NC_021163.1	Ca_Kabuli_Chr04	43093192	AA	GG	GG	INTERGENIC			
SNP_30020_A_43093213	NC_021163.1	Ca_Kabuli_Chr04	43093213	AA	CC	CC	INTERGENIC			
SNP_30021_A_43093457	NC_021163.1	Ca_Kabuli_Chr04	43093457	AA	CC	CC	INTERGENIC			
SNP_30022_A_43093771	NC_021163.1	Ca_Kabuli_Chr04	43093771	CC	AA	AA	INTERGENIC			
SNP_30023_A_43093796	NC_021163.1	Ca_Kabuli_Chr04	43093796	CC	TT	TT	INTERGENIC			
SNP_30024_A_43111734	NC_021163.1	Ca_Kabuli_Chr04	43111734	GG	AA	AA	INTERGENIC			
SNP_30025_A_43115388	NC_021163.1	Ca_Kabuli_Chr04	43115388	GG	AA	AA	INTERGENIC			
SNP_30026_A_43120029	NC_021163.1	Ca_Kabuli_Chr04	43120029	CC	AA	AA	INTERGENIC			
SNP_30027_A_43128315	NC_021163.1	Ca_Kabuli_Chr04	43128315	GG	AA	AA	INTERGENIC			
SNP_30028_A_43146786	NC_021163.1	Ca_Kabuli_Chr04	43146786	AA	TT	TT	INTERGENIC			
SNP_30029_A_43146812	NC_021163.1	Ca_Kabuli_Chr04	43146812	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30030_A_43146878	NC_021163.1	Ca_Kabuli_Chr04	43146878	CC	GG	GG	INTERGENIC			
SNP_30031_A_43146893	NC_021163.1	Ca_Kabuli_Chr04	43146893	GG	AA	AA	INTERGENIC			
SNP_30032_A_43146954	NC_021163.1	Ca_Kabuli_Chr04	43146954	CC	TT	TT	INTERGENIC			
SNP_30033_A_43146975	NC_021163.1	Ca_Kabuli_Chr04	43146975	CC	TT	TT	INTERGENIC			
SNP_30034_A_43146983	NC_021163.1	Ca_Kabuli_Chr04	43146983	CC	TT	TT	INTERGENIC			
SNP_30035_A_43146991	NC_021163.1	Ca_Kabuli_Chr04	43146991	CC	TT	TT	INTERGENIC			
SNP_30036_A_43146996	NC_021163.1	Ca_Kabuli_Chr04	43146996	CC	TT	TT	INTERGENIC			
SNP_30037_A_43165531	NC_021163.1	Ca_Kabuli_Chr04	43165531	AA	TT	TT	INTERGENIC			
SNP_30038_A_43171381	NC_021163.1	Ca_Kabuli_Chr04	43171381	GG	CC	CC	INTERGENIC			
SNP_30039_A_43173864	NC_021163.1	Ca_Kabuli_Chr04	43173864	AA	TT	TT	INTERGENIC			
SNP_30040_A_43200277	NC_021163.1	Ca_Kabuli_Chr04	43200277	AA	CC	CC	INTERGENIC			
SNP_30041_A_43205245	NC_021163.1	Ca_Kabuli_Chr04	43205245	CC	TT	TT	INTERGENIC			
SNP_30042_A_43212036	NC_021163.1	Ca_Kabuli_Chr04	43212036	TT	AA	AA	INTERGENIC			
SNP_30044_A_43240062	NC_021163.1	Ca_Kabuli_Chr04	43240062	GG	AA	AA	INTERGENIC			
SNP_30045_A_43240667	NC_021163.1	Ca_Kabuli_Chr04	43240667	AA	CC	CC	INTERGENIC			
SNP_30046_A_43241011	NC_021163.1	Ca_Kabuli_Chr04	43241011	AA	GG	GG	INTERGENIC			
SNP_30047_A_43242982	NC_021163.1	Ca_Kabuli_Chr04	43242982	GG	AA	AA	INTERGENIC			
SNP_30048_A_43243610	NC_021163.1	Ca_Kabuli_Chr04	43243610	GG	AA	AA	INTERGENIC			
SNP_30049_A_43243713	NC_021163.1	Ca_Kabuli_Chr04	43243713	TT	GG	GG	INTERGENIC			
SNP_30050_A_43243718	NC_021163.1	Ca_Kabuli_Chr04	43243718	TT	CC	CC	INTERGENIC			
SNP_30051_A_43243945	NC_021163.1	Ca_Kabuli_Chr04	43243945	GG	AA	AA	INTERGENIC			
SNP_30052_A_43244073	NC_021163.1	Ca_Kabuli_Chr04	43244073	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30053_A_43247567	NC_021163.1	Ca_Kabuli_Chr04	43247567	CC	TT	TT	INTERGENIC		
SNP_30054_A_43247808	NC_021163.1	Ca_Kabuli_Chr04	43247808	CC	GG	GG	INTERGENIC		
SNP_30055_A_43270325	NC_021163.1	Ca_Kabuli_Chr04	43270325	AA	TT	TT	INTRON	101508457	uncharacterized LOC101508457
SNP_30056_A_43274798	NC_021163.1	Ca_Kabuli_Chr04	43274798	GG	AA	AA	INTRON	101508457	uncharacterized LOC101508457
SNP_30057_A_43274816	NC_021163.1	Ca_Kabuli_Chr04	43274816	GG	AA	AA	INTRON	101508457	uncharacterized LOC101508457
SNP_30058_A_43274864	NC_021163.1	Ca_Kabuli_Chr04	43274864	TT	CC	CC	INTRON	101508457	uncharacterized LOC101508457
SNP_30059_A_43274894	NC_021163.1	Ca_Kabuli_Chr04	43274894	CC	TT	TT	INTRON	101508457	uncharacterized LOC101508457
SNP_30060_A_43274909	NC_021163.1	Ca_Kabuli_Chr04	43274909	TT	GG	GG	INTRON	101508457	uncharacterized LOC101508457
SNP_30061_A_43274911	NC_021163.1	Ca_Kabuli_Chr04	43274911	TT	CC	CC	INTRON	101508457	uncharacterized LOC101508457
SNP_30062_A_43274919	NC_021163.1	Ca_Kabuli_Chr04	43274919	AA	CC	CC	INTRON	101508457	uncharacterized LOC101508457
SNP_30063_A_43275190	NC_021163.1	Ca_Kabuli_Chr04	43275190	AA	GG	GG	INTRON	101508457	uncharacterized LOC101508457
SNP_30064_A_43275206	NC_021163.1	Ca_Kabuli_Chr04	43275206	CC	TT	TT	INTRON	101508457	uncharacterized LOC101508457
SNP_30065_A_43275239	NC_021163.1	Ca_Kabuli_Chr04	43275239	TT	CC	CC	INTRON	101508457	uncharacterized LOC101508457
SNP_30066_A_43275244	NC_021163.1	Ca_Kabuli_Chr04	43275244	CC	TT	TT	INTRON	101508457	uncharacterized LOC101508457
SNP_30071_A_43304339	NC_021163.1	Ca_Kabuli_Chr04	43304339	AA	TT	TT	INTRON	101508760	homeobox protein rough sheath 1-like
SNP_30072_A_43304346	NC_021163.1	Ca_Kabuli_Chr04	43304346	AA	TT	TT	INTRON	101508760	homeobox protein rough sheath 1-like
SNP_30073_A_43345831	NC_021163.1	Ca_Kabuli_Chr04	43345831	AA	TT	TT	DRR	101506092	G-type lectin S-receptor-like serine/threonine-protein kinase At1g34300
SNP_30074_A_43362622	NC_021163.1	Ca_Kabuli_Chr04	43362622	CC	TT	TT	URR	101506746	uncharacterized LOC101506746
SNP_30075_A_43362633	NC_021163.1	Ca_Kabuli_Chr04	43362633	GG	AA	AA	URR	101506746	uncharacterized LOC101506746
SNP_30077_A_43434195	NC_021163.1	Ca_Kabuli_Chr04	43434195	TT	AA	AA	INTERGENIC		
SNP_30078_A_43468308	NC_021163.1	Ca_Kabuli_Chr04	43468308	TT	CC	CC	NON_SYNONYMOUS_CODING	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_30079_A_43468320	NC_021163.1	Ca_Kabuli_Chr04	43468320	AA	CC	CC	URR	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30080_A_43468324	NC_021163.1	Ca_Kabuli_Chr04	43468324	AA	GG	GG	URR	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_30081_A_43468348	NC_021163.1	Ca_Kabuli_Chr04	43468348	CC	AA	AA	URR	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_30082_A_43468666	NC_021163.1	Ca_Kabuli_Chr04	43468666	AA	CC	CC	URR	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_30083_A_43468726	NC_021163.1	Ca_Kabuli_Chr04	43468726	AA	GG	GG	URR	101510378	arogenate dehydratase/prephenate dehydratase 2, chloroplastic-like
SNP_30084_A_43495781	NC_021163.1	Ca_Kabuli_Chr04	43495781	TT	CC	CC	URR	101508137	transcription factor ABORTED MICROSPORES-like
SNP_30085_A_43497749	NC_021163.1	Ca_Kabuli_Chr04	43497749	AA	GG	GG	INTERGENIC		
SNP_30086_A_43510707	NC_021163.1	Ca_Kabuli_Chr04	43510707	TT	CC	CC	INTERGENIC		
SNP_30087_A_43510740	NC_021163.1	Ca_Kabuli_Chr04	43510740	TT	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30088_A_43511017	NC_021163.1	Ca_Kabuli_Chr04	43511017	AA	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30089_A_43511021	NC_021163.1	Ca_Kabuli_Chr04	43511021	TT	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30090_A_43511036	NC_021163.1	Ca_Kabuli_Chr04	43511036	AA	TT	TT	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30091_A_43511091	NC_021163.1	Ca_Kabuli_Chr04	43511091	TT	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30092_A_43511098	NC_021163.1	Ca_Kabuli_Chr04	43511098	TT	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30093_A_43511101	NC_021163.1	Ca_Kabuli_Chr04	43511101	TT	CC	CC	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30094_A_43511104	NC_021163.1	Ca_Kabuli_Chr04	43511104	CC	TT	TT	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30095_A_43511138	NC_021163.1	Ca_Kabuli_Chr04	43511138	GG	AA	AA	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30096_A_43511259	NC_021163.1	Ca_Kabuli_Chr04	43511259	GG	AA	AA	DRR	101511332	transcription factor ABORTED MICROSPORES-like
SNP_30097_A_43533427	NC_021163.1	Ca_Kabuli_Chr04	43533427	GG	AA	AA	INTERGENIC		
SNP_30098_A_43533662	NC_021163.1	Ca_Kabuli_Chr04	43533662	GG	TT	TT	INTERGENIC		
SNP_30099_A_43636143	NC_021163.1	Ca_Kabuli_Chr04	43636143	CC	TT	TT	INTERGENIC		
SNP_30100_A_43658079	NC_021163.1	Ca_Kabuli_Chr04	43658079	AA	GG	GG	INTERGENIC		
SNP_30101_A_43664086	NC_021163.1	Ca_Kabuli_Chr04	43664086	AA	GG	GG	INTERGENIC		

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SNP_30102_A_43757371	NC_021163.1	Ca_Kabuli_Chr04	43757371	CC	GG	GG	INTERGENIC		
SNP_30103_A_43757413	NC_021163.1	Ca_Kabuli_Chr04	43757413	AA	GG	GG	INTERGENIC		
SNP_30104_A_43757476	NC_021163.1	Ca_Kabuli_Chr04	43757476	TT	CC	CC	INTERGENIC		
SNP_30105_A_43757505	NC_021163.1	Ca_Kabuli_Chr04	43757505	AA	GG	GG	INTERGENIC		
SNP_30106_A_43821429	NC_021163.1	Ca_Kabuli_Chr04	43821429	CC	GG	GG	NON_SYNONYMOUS_CODING	101491143	protein MEMO1
SNP_30107_A_43825341	NC_021163.1	Ca_Kabuli_Chr04	43825341	GG	AA	AA	URR	101491143	protein MEMO1
SNP_30108_A_43881923	NC_021163.1	Ca_Kabuli_Chr04	43881923	CC	TT	TT	DRR	101494167	uncharacterized LOC101494167
SNP_30109_A_43970370	NC_021163.1	Ca_Kabuli_Chr04	43970370	AA	CC	CC	DRR	101497075	probable receptor-like protein kinase At1g80640
SNP_30110_A_44022085	NC_021163.1	Ca_Kabuli_Chr04	44022085	CC	AA	AA	INTERGENIC		
SNP_30112_A_44093240	NC_021163.1	Ca_Kabuli_Chr04	44093240	AA	CC	CC	URR	101500962	U-box domain-containing protein 6
SNP_30113_A_44093241	NC_021163.1	Ca_Kabuli_Chr04	44093241	AA	CC	CC	URR	101500962	U-box domain-containing protein 6
SNP_30114_A_44093255	NC_021163.1	Ca_Kabuli_Chr04	44093255	CC	AA	AA	URR	101500962	U-box domain-containing protein 6
SNP_30115_A_44093256	NC_021163.1	Ca_Kabuli_Chr04	44093256	CC	AA	AA	URR	101500962	U-box domain-containing protein 6
SNP_30118_A_44134606	NC_021163.1	Ca_Kabuli_Chr04	44134606	AA	GG	GG	INTERGENIC		
SNP_30119_A_44134635	NC_021163.1	Ca_Kabuli_Chr04	44134635	AA	GG	GG	INTERGENIC		
SNP_30120_A_44134774	NC_021163.1	Ca_Kabuli_Chr04	44134774	AA	GG	GG	INTERGENIC		
SNP_30121_A_44134836	NC_021163.1	Ca_Kabuli_Chr04	44134836	CC	TT	TT	INTERGENIC		
SNP_30122_A_44135175	NC_021163.1	Ca_Kabuli_Chr04	44135175	TT	CC	CC	INTERGENIC		
SNP_30123_A_44135203	NC_021163.1	Ca_Kabuli_Chr04	44135203	TT	AA	AA	INTERGENIC		
SNP_30124_A_44135205	NC_021163.1	Ca_Kabuli_Chr04	44135205	TT	CC	CC	INTERGENIC		
SNP_30125_A_44165370	NC_021163.1	Ca_Kabuli_Chr04	44165370	AA	GG	GG	INTERGENIC		
SNP_30126_A_44198072	NC_021163.1	Ca_Kabuli_Chr04	44198072	CC	TT	TT	DRR	101506522	WAT1-related protein At5g40240-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30127_A_44207729	NC_021163.1	Ca_Kabuli_Chr04	44207729	TT	GG	GG	INTRON	101507082	transmembrane 9 superfamily member 8
SNP_30128_A_44214239	NC_021163.1	Ca_Kabuli_Chr04	44214239	TT	CC	CC	INTERGENIC		
SNP_30129_A_44214247	NC_021163.1	Ca_Kabuli_Chr04	44214247	TT	GG	GG	INTERGENIC		
SNP_30130_A_44214250	NC_021163.1	Ca_Kabuli_Chr04	44214250	AA	CC	CC	INTERGENIC		
SNP_30131_A_44214528	NC_021163.1	Ca_Kabuli_Chr04	44214528	AA	GG	GG	INTERGENIC		
SNP_30132_A_44214538	NC_021163.1	Ca_Kabuli_Chr04	44214538	AA	CC	CC	INTERGENIC		
SNP_30133_A_44214566	NC_021163.1	Ca_Kabuli_Chr04	44214566	TT	AA	AA	INTERGENIC		
SNP_30134_A_44214680	NC_021163.1	Ca_Kabuli_Chr04	44214680	TT	CC	CC	INTERGENIC		
SNP_30135_A_44214704	NC_021163.1	Ca_Kabuli_Chr04	44214704	AA	GG	GG	INTERGENIC		
SNP_30136_A_44235280	NC_021163.1	Ca_Kabuli_Chr04	44235280	AA	GG	GG	DRR	101507404	BTB/POZ domain-containing protein NPY1
SNP_30137_A_44292792	NC_021163.1	Ca_Kabuli_Chr04	44292792	GG	AA	AA	INTERGENIC		
SNP_30138_A_44293777	NC_021163.1	Ca_Kabuli_Chr04	44293777	AA	GG	GG	INTERGENIC		
SNP_30139_A_44294024	NC_021163.1	Ca_Kabuli_Chr04	44294024	CC	TT	TT	DRR	101509520	uncharacterized LOC101509520
SNP_30140_A_44294073	NC_021163.1	Ca_Kabuli_Chr04	44294073	AA	GG	GG	DRR	101509520	uncharacterized LOC101509520
SNP_30141_A_44294102	NC_021163.1	Ca_Kabuli_Chr04	44294102	AA	TT	TT	DRR	101509520	uncharacterized LOC101509520
SNP_30142_A_44294103	NC_021163.1	Ca_Kabuli_Chr04	44294103	CC	GG	GG	DRR	101509520	uncharacterized LOC101509520
SNP_30143_A_44294308	NC_021163.1	Ca_Kabuli_Chr04	44294308	GG	TT	TT	DRR	101509520	uncharacterized LOC101509520
SNP_30144_A_44294440	NC_021163.1	Ca_Kabuli_Chr04	44294440	TT	GG	GG	DRR	101509520	uncharacterized LOC101509520
SNP_30145_A_44294514	NC_021163.1	Ca_Kabuli_Chr04	44294514	TT	CC	CC	DRR	101509520	uncharacterized LOC101509520
SNP_30146_A_44294585	NC_021163.1	Ca_Kabuli_Chr04	44294585	GG	TT	TT	DRR	101509520	uncharacterized LOC101509520
SNP_30147_A_44294595	NC_021163.1	Ca_Kabuli_Chr04	44294595	TT	CC	CC	DRR	101509520	uncharacterized LOC101509520
SNP_30148_A_44294621	NC_021163.1	Ca_Kabuli_Chr04	44294621	AA	GG	GG	DRR	101509520	uncharacterized LOC101509520

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30149_A_44294737	NC_021163.1	Ca_Kabuli_Chr04	44294737	TT	CC	CC	DRR	101509520	uncharacterized LOC101509520
SNP_30150_A_44295002	NC_021163.1	Ca_Kabuli_Chr04	44295002	TT	GG	GG	INTRON	101509520	uncharacterized LOC101509520
SNP_30151_A_44295073	NC_021163.1	Ca_Kabuli_Chr04	44295073	AA	GG	GG	INTRON	101509520	uncharacterized LOC101509520
SNP_30152_A_44295280	NC_021163.1	Ca_Kabuli_Chr04	44295280	AA	CC	CC	INTRON	101509520	uncharacterized LOC101509520
SNP_30153_A_44295325	NC_021163.1	Ca_Kabuli_Chr04	44295325	TT	CC	CC	INTRON	101509520	uncharacterized LOC101509520
SNP_30154_A_44295378	NC_021163.1	Ca_Kabuli_Chr04	44295378	TT	CC	CC	INTRON	101509520	uncharacterized LOC101509520
SNP_30155_A_44301957	NC_021163.1	Ca_Kabuli_Chr04	44301957	GG	AA	AA	INTERGENIC		
SNP_30156_A_44383617	NC_021163.1	Ca_Kabuli_Chr04	44383617	GG	AA	AA	DRR	101511660	probable protein phosphatase 2C 59
SNP_30157_A_44403371	NC_021163.1	Ca_Kabuli_Chr04	44403371	AA	TT	TT	URR	101512530	protein GLUTAMINE DUMPER 5-like
SNP_30159_A_44489494	NC_021163.1	Ca_Kabuli_Chr04	44489494	AA	GG	GG	INTERGENIC		
SNP_30160_A_44490430	NC_021163.1	Ca_Kabuli_Chr04	44490430	TT	CC	CC	INTERGENIC		
SNP_30161_A_44491847	NC_021163.1	Ca_Kabuli_Chr04	44491847	AA	TT	TT	INTERGENIC		
SNP_30162_A_44492651	NC_021163.1	Ca_Kabuli_Chr04	44492651	CC	AA	AA	INTERGENIC		
SNP_30163_A_44492693	NC_021163.1	Ca_Kabuli_Chr04	44492693	TT	CC	CC	INTERGENIC		
SNP_30164_A_44492728	NC_021163.1	Ca_Kabuli_Chr04	44492728	TT	CC	CC	INTERGENIC		
SNP_30165_A_44493029	NC_021163.1	Ca_Kabuli_Chr04	44493029	TT	CC	CC	INTERGENIC		
SNP_30166_A_44493109	NC_021163.1	Ca_Kabuli_Chr04	44493109	TT	CC	CC	INTERGENIC		
SNP_30168_A_44495123	NC_021163.1	Ca_Kabuli_Chr04	44495123	AA	GG	GG	SYNONYMOUS_CODING	101502455	uncharacterized LOC101502455
SNP_30169_A_44497089	NC_021163.1	Ca_Kabuli_Chr04	44497089	CC	TT	TT	URR	101502455	uncharacterized LOC101502455
SNP_30170_A_44497122	NC_021163.1	Ca_Kabuli_Chr04	44497122	AA	GG	GG	URR	101502455	uncharacterized LOC101502455
SNP_30171_A_44497124	NC_021163.1	Ca_Kabuli_Chr04	44497124	CC	TT	TT	URR	101502455	uncharacterized LOC101502455
SNP_30173_A_44499253	NC_021163.1	Ca_Kabuli_Chr04	44499253	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30174_A_44499287	NC_021163.1	Ca_Kabuli_Chr04	44499287	GG	AA	AA	INTERGENIC			
SNP_30175_A_44500506	NC_021163.1	Ca_Kabuli_Chr04	44500506	CC	TT	TT	INTERGENIC			
SNP_30176_A_44500792	NC_021163.1	Ca_Kabuli_Chr04	44500792	CC	TT	TT	INTERGENIC			
SNP_30177_A_44501589	NC_021163.1	Ca_Kabuli_Chr04	44501589	CC	TT	TT	INTERGENIC			
SNP_30178_A_44503643	NC_021163.1	Ca_Kabuli_Chr04	44503643	CC	GG	GG	INTERGENIC			
SNP_30179_A_44503658	NC_021163.1	Ca_Kabuli_Chr04	44503658	CC	TT	TT	INTERGENIC			
SNP_30180_A_44503989	NC_021163.1	Ca_Kabuli_Chr04	44503989	TT	CC	CC	INTERGENIC			
SNP_30181_A_44504177	NC_021163.1	Ca_Kabuli_Chr04	44504177	TT	CC	CC	INTERGENIC			
SNP_30182_A_44504412	NC_021163.1	Ca_Kabuli_Chr04	44504412	GG	CC	CC	INTERGENIC			
SNP_30183_A_44505436	NC_021163.1	Ca_Kabuli_Chr04	44505436	AA	GG	GG	INTERGENIC			
SNP_30184_A_44506559	NC_021163.1	Ca_Kabuli_Chr04	44506559	TT	GG	GG	INTERGENIC			
SNP_30185_A_44507168	NC_021163.1	Ca_Kabuli_Chr04	44507168	AA	GG	GG	INTERGENIC			
SNP_30186_A_44507396	NC_021163.1	Ca_Kabuli_Chr04	44507396	GG	AA	AA	INTERGENIC			
SNP_30189_A_44507910	NC_021163.1	Ca_Kabuli_Chr04	44507910	TT	AA	AA	INTERGENIC			
SNP_30190_A_44508098	NC_021163.1	Ca_Kabuli_Chr04	44508098	CC	GG	GG	INTERGENIC			
SNP_30191_A_44508115	NC_021163.1	Ca_Kabuli_Chr04	44508115	CC	TT	TT	INTERGENIC			
SNP_30192_A_44508991	NC_021163.1	Ca_Kabuli_Chr04	44508991	TT	AA	AA	INTERGENIC			
SNP_30194_A_44509221	NC_021163.1	Ca_Kabuli_Chr04	44509221	CC	AA	AA	INTERGENIC			
SNP_30195_A_44510392	NC_021163.1	Ca_Kabuli_Chr04	44510392	CC	AA	AA	INTERGENIC			
SNP_30196_A_44510404	NC_021163.1	Ca_Kabuli_Chr04	44510404	TT	AA	AA	INTERGENIC			
SNP_30197_A_44511295	NC_021163.1	Ca_Kabuli_Chr04	44511295	CC	TT	TT	INTERGENIC			
SNP_30199_A_44511435	NC_021163.1	Ca_Kabuli_Chr04	44511435	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30200_A_44511477	NC_021163.1	Ca_Kabuli_Chr04	44511477	TT	CC	CC	INTERGENIC		
SNP_30201_A_44511691	NC_021163.1	Ca_Kabuli_Chr04	44511691	AA	TT	TT	INTERGENIC		
SNP_30202_A_44511825	NC_021163.1	Ca_Kabuli_Chr04	44511825	TT	CC	CC	INTERGENIC		
SNP_30203_A_44511862	NC_021163.1	Ca_Kabuli_Chr04	44511862	GG	TT	TT	INTERGENIC		
SNP_30204_A_44511867	NC_021163.1	Ca_Kabuli_Chr04	44511867	AA	GG	GG	INTERGENIC		
SNP_30205_A_44512089	NC_021163.1	Ca_Kabuli_Chr04	44512089	GG	AA	AA	INTERGENIC		
SNP_30206_A_44512091	NC_021163.1	Ca_Kabuli_Chr04	44512091	AA	CC	CC	INTERGENIC		
SNP_30207_A_44513092	NC_021163.1	Ca_Kabuli_Chr04	44513092	GG	CC	CC	INTERGENIC		
SNP_30208_A_44513113	NC_021163.1	Ca_Kabuli_Chr04	44513113	GG	TT	TT	INTERGENIC		
SNP_30209_A_44513116	NC_021163.1	Ca_Kabuli_Chr04	44513116	TT	CC	CC	INTERGENIC		
SNP_30210_A_44513125	NC_021163.1	Ca_Kabuli_Chr04	44513125	CC	AA	AA	INTERGENIC		
SNP_30211_A_44513553	NC_021163.1	Ca_Kabuli_Chr04	44513553	AA	TT	TT	INTERGENIC		
SNP_30212_A_44513566	NC_021163.1	Ca_Kabuli_Chr04	44513566	TT	CC	CC	INTERGENIC		
SNP_30213_A_44513602	NC_021163.1	Ca_Kabuli_Chr04	44513602	TT	CC	CC	INTERGENIC		
SNP_30214_A_44514917	NC_021163.1	Ca_Kabuli_Chr04	44514917	GG	AA	AA	INTERGENIC		
SNP_30215_A_44514943	NC_021163.1	Ca_Kabuli_Chr04	44514943	TT	AA	AA	INTERGENIC		
SNP_30216_A_44515240	NC_021163.1	Ca_Kabuli_Chr04	44515240	TT	GG	GG	INTERGENIC		
SNP_30217_A_44517024	NC_021163.1	Ca_Kabuli_Chr04	44517024	CC	TT	TT	INTERGENIC		
SNP_30218_A_44519190	NC_021163.1	Ca_Kabuli_Chr04	44519190	CC	TT	TT	INTERGENIC		
SNP_30219_A_44522281	NC_021163.1	Ca_Kabuli_Chr04	44522281	CC	TT	TT	SYNONYMOUS_CODING	101502760	ethylene-responsive transcription factor ERF018-like
SNP_30221_A_44523560	NC_021163.1	Ca_Kabuli_Chr04	44523560	TT	AA	AA	URR	101502760	ethylene-responsive transcription factor ERF018-like
SNP_30224_A_44523978	NC_021163.1	Ca_Kabuli_Chr04	44523978	CC	AA	AA	URR	101502760	ethylene-responsive transcription factor ERF018-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30225_A_44523998	NC_021163.1	Ca_Kabuli_Chr04	44523998	AA	GG	GG	URR		101502760	ethylene-responsive transcription factor ERF018-like
SNP_30228_A_44527162	NC_021163.1	Ca_Kabuli_Chr04	44527162	CC	AA	AA	INTERGENIC			
SNP_30229_A_44529202	NC_021163.1	Ca_Kabuli_Chr04	44529202	AA	GG	GG	INTERGENIC			
SNP_30230_A_44529420	NC_021163.1	Ca_Kabuli_Chr04	44529420	TT	AA	AA	INTERGENIC			
SNP_30233_A_44543057	NC_021163.1	Ca_Kabuli_Chr04	44543057	CC	AA	AA	INTERGENIC			
SNP_30234_A_44543364	NC_021163.1	Ca_Kabuli_Chr04	44543364	TT	AA	AA	INTERGENIC			
SNP_30235_A_44543367	NC_021163.1	Ca_Kabuli_Chr04	44543367	CC	TT	TT	INTERGENIC			
SNP_30236_A_44543487	NC_021163.1	Ca_Kabuli_Chr04	44543487	GG	CC	CC	INTERGENIC			
SNP_30237_A_44543492	NC_021163.1	Ca_Kabuli_Chr04	44543492	GG	CC	CC	INTERGENIC			
SNP_30238_A_44543510	NC_021163.1	Ca_Kabuli_Chr04	44543510	AA	GG	GG	INTERGENIC			
SNP_30239_A_44543548	NC_021163.1	Ca_Kabuli_Chr04	44543548	CC	TT	TT	INTERGENIC			
SNP_30240_A_44543595	NC_021163.1	Ca_Kabuli_Chr04	44543595	TT	AA	AA	INTERGENIC			
SNP_30241_A_44543658	NC_021163.1	Ca_Kabuli_Chr04	44543658	CC	TT	TT	INTERGENIC			
SNP_30242_A_44543707	NC_021163.1	Ca_Kabuli_Chr04	44543707	AA	CC	CC	INTERGENIC			
SNP_30243_A_44543721	NC_021163.1	Ca_Kabuli_Chr04	44543721	GG	AA	AA	INTERGENIC			
SNP_30244_A_44543761	NC_021163.1	Ca_Kabuli_Chr04	44543761	TT	AA	AA	INTERGENIC			
SNP_30245_A_44543821	NC_021163.1	Ca_Kabuli_Chr04	44543821	CC	TT	TT	INTERGENIC			
SNP_30246_A_44543828	NC_021163.1	Ca_Kabuli_Chr04	44543828	CC	TT	TT	INTERGENIC			
SNP_30247_A_44543851	NC_021163.1	Ca_Kabuli_Chr04	44543851	CC	AA	AA	INTERGENIC			
SNP_30248_A_44543858	NC_021163.1	Ca_Kabuli_Chr04	44543858	AA	CC	CC	INTERGENIC			
SNP_30249_A_44543889	NC_021163.1	Ca_Kabuli_Chr04	44543889	TT	CC	CC	INTERGENIC			
SNP_30250_A_44543890	NC_021163.1	Ca_Kabuli_Chr04	44543890	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30251_A_44543912	NC_021163.1	Ca_Kabuli_Chr04	44543912	TT	AA	AA	INTERGENIC			
SNP_30252_A_44543916	NC_021163.1	Ca_Kabuli_Chr04	44543916	AA	CC	CC	INTERGENIC			
SNP_30253_A_44543924	NC_021163.1	Ca_Kabuli_Chr04	44543924	GG	AA	AA	INTERGENIC			
SNP_30254_A_44543974	NC_021163.1	Ca_Kabuli_Chr04	44543974	CC	GG	GG	INTERGENIC			
SNP_30255_A_44543998	NC_021163.1	Ca_Kabuli_Chr04	44543998	GG	AA	AA	INTERGENIC			
SNP_30256_A_44543999	NC_021163.1	Ca_Kabuli_Chr04	44543999	GG	AA	AA	INTERGENIC			
SNP_30257_A_44544442	NC_021163.1	Ca_Kabuli_Chr04	44544442	TT	AA	AA	INTERGENIC			
SNP_30258_A_44544469	NC_021163.1	Ca_Kabuli_Chr04	44544469	GG	TT	TT	INTERGENIC			
SNP_30259_A_44549250	NC_021163.1	Ca_Kabuli_Chr04	44549250	TT	CC	CC	INTERGENIC			
SNP_30260_A_44550135	NC_021163.1	Ca_Kabuli_Chr04	44550135	TT	CC	CC	INTERGENIC			
SNP_30261_A_44550168	NC_021163.1	Ca_Kabuli_Chr04	44550168	CC	AA	AA	INTERGENIC			
SNP_30262_A_44550985	NC_021163.1	Ca_Kabuli_Chr04	44550985	GG	TT	TT	INTERGENIC			
SNP_30263_A_44551042	NC_021163.1	Ca_Kabuli_Chr04	44551042	CC	AA	AA	INTERGENIC			
SNP_30264_A_44551046	NC_021163.1	Ca_Kabuli_Chr04	44551046	TT	AA	AA	INTERGENIC			
SNP_30265_A_44551063	NC_021163.1	Ca_Kabuli_Chr04	44551063	AA	GG	GG	INTERGENIC			
SNP_30266_A_44551551	NC_021163.1	Ca_Kabuli_Chr04	44551551	AA	GG	GG	INTERGENIC			
SNP_30267_A_44551998	NC_021163.1	Ca_Kabuli_Chr04	44551998	TT	CC	CC	INTERGENIC			
SNP_30268_A_44552027	NC_021163.1	Ca_Kabuli_Chr04	44552027	CC	TT	TT	INTERGENIC			
SNP_30269_A_44552050	NC_021163.1	Ca_Kabuli_Chr04	44552050	CC	TT	TT	INTERGENIC			
SNP_30270_A_44554094	NC_021163.1	Ca_Kabuli_Chr04	44554094	CC	TT	TT	INTERGENIC			
SNP_30271_A_44554268	NC_021163.1	Ca_Kabuli_Chr04	44554268	CC	TT	TT	INTERGENIC			
SNP_30272_A_44554270	NC_021163.1	Ca_Kabuli_Chr04	44554270	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30273_A_44554271	NC_021163.1	Ca_Kabuli_Chr04	44554271	AA	GG	GG	INTERGENIC		
SNP_30274_A_44559167	NC_021163.1	Ca_Kabuli_Chr04	44559167	TT	AA	AA	INTRON	101488315	uncharacterized LOC101488315
SNP_30275_A_44559172	NC_021163.1	Ca_Kabuli_Chr04	44559172	CC	GG	GG	INTRON	101488315	uncharacterized LOC101488315
SNP_30276_A_44559193	NC_021163.1	Ca_Kabuli_Chr04	44559193	GG	CC	CC	INTRON	101488315	uncharacterized LOC101488315
SNP_30277_A_44559626	NC_021163.1	Ca_Kabuli_Chr04	44559626	GG	AA	AA	URR	101488315	uncharacterized LOC101488315
SNP_30278_A_44559695	NC_021163.1	Ca_Kabuli_Chr04	44559695	TT	GG	GG	URR	101488315	uncharacterized LOC101488315
SNP_30279_A_44559697	NC_021163.1	Ca_Kabuli_Chr04	44559697	CC	TT	TT	URR	101488315	uncharacterized LOC101488315
SNP_30281_A_44561347	NC_021163.1	Ca_Kabuli_Chr04	44561347	TT	AA	AA	URR	101488315	uncharacterized LOC101488315
SNP_30282_A_44565075	NC_021163.1	Ca_Kabuli_Chr04	44565075	AA	TT	TT	INTERGENIC		
SNP_30283_A_44570969	NC_021163.1	Ca_Kabuli_Chr04	44570969	CC	TT	TT	INTERGENIC		
SNP_30284_A_44598987	NC_021163.1	Ca_Kabuli_Chr04	44598987	CC	AA	AA	INTERGENIC		
SNP_30285_A_44616416	NC_021163.1	Ca_Kabuli_Chr04	44616416	AA	TT	TT	INTERGENIC		
SNP_30286_A_44616883	NC_021163.1	Ca_Kabuli_Chr04	44616883	AA	GG	GG	INTERGENIC		
SNP_30287_A_44624474	NC_021163.1	Ca_Kabuli_Chr04	44624474	AA	CC	CC	DRR	101492319	uncharacterized LOC101492319
SNP_30288_A_44624522	NC_021163.1	Ca_Kabuli_Chr04	44624522	TT	AA	AA	DRR	101492319	uncharacterized LOC101492319
SNP_30289_A_44629045	NC_021163.1	Ca_Kabuli_Chr04	44629045	CC	TT	TT	INTERGENIC		
SNP_30290_A_44638401	NC_021163.1	Ca_Kabuli_Chr04	44638401	AA	TT	TT	URR	101492648	protein RBL-like
SNP_30291_A_44649399	NC_021163.1	Ca_Kabuli_Chr04	44649399	GG	AA	AA	INTRON	101492983	FAD-linked sulfhydryl oxidase ERV1-like
SNP_30292_A_44649410	NC_021163.1	Ca_Kabuli_Chr04	44649410	CC	GG	GG	INTRON	101492983	FAD-linked sulfhydryl oxidase ERV1-like
SNP_30293_A_44656817	NC_021163.1	Ca_Kabuli_Chr04	44656817	TT	AA	AA	INTRON	101493315	PHD finger protein ALFIN-LIKE 4-like
SNP_30294_A_44666868	NC_021163.1	Ca_Kabuli_Chr04	44666868	AA	GG	GG	URR	101493840	uncharacterized LOC101493840
SNP_30295_A_44666871	NC_021163.1	Ca_Kabuli_Chr04	44666871	AA	GG	GG	URR	101493840	uncharacterized LOC101493840

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30296_A_44667240	NC_021163.1	Ca_Kabuli_Chr04	44667240	TT	CC	CC	URR	101493840	uncharacterized LOC101493840
SNP_30297_A_44669027	NC_021163.1	Ca_Kabuli_Chr04	44669027	GG	AA	AA	INTERGENIC		
SNP_30298_A_44672488	NC_021163.1	Ca_Kabuli_Chr04	44672488	CC	TT	TT	URR	101494478	uncharacterized LOC101494478
SNP_30299_A_44679607	NC_021163.1	Ca_Kabuli_Chr04	44679607	GG	TT	TT	INTERGENIC		
SNP_30300_A_44694695	NC_021163.1	Ca_Kabuli_Chr04	44694695	TT	GG	GG	INTERGENIC		
SNP_30302_A_44694795	NC_021163.1	Ca_Kabuli_Chr04	44694795	TT	GG	GG	INTERGENIC		
SNP_30303_A_44694872	NC_021163.1	Ca_Kabuli_Chr04	44694872	AA	CC	CC	INTERGENIC		
SNP_30304_A_44694957	NC_021163.1	Ca_Kabuli_Chr04	44694957	TT	GG	GG	INTERGENIC		
SNP_30305_A_44718666	NC_021163.1	Ca_Kabuli_Chr04	44718666	CC	TT	TT	INTERGENIC		
SNP_30306_A_44723486	NC_021163.1	Ca_Kabuli_Chr04	44723486	CC	TT	TT	INTERGENIC		
SNP_30307_A_44724648	NC_021163.1	Ca_Kabuli_Chr04	44724648	AA	GG	GG	INTERGENIC		
SNP_30308_A_44725551	NC_021163.1	Ca_Kabuli_Chr04	44725551	TT	AA	AA	INTERGENIC		
SNP_30309_A_44742952	NC_021163.1	Ca_Kabuli_Chr04	44742952	TT	CC	CC	INTERGENIC		
SNP_30310_A_44743289	NC_021163.1	Ca_Kabuli_Chr04	44743289	AA	CC	CC	INTERGENIC		
SNP_30311_A_44744632	NC_021163.1	Ca_Kabuli_Chr04	44744632	TT	CC	CC	INTERGENIC		
SNP_30312_A_44744642	NC_021163.1	Ca_Kabuli_Chr04	44744642	TT	AA	AA	INTERGENIC		
SNP_30313_A_44747818	NC_021163.1	Ca_Kabuli_Chr04	44747818	CC	TT	TT	INTERGENIC		
SNP_30314_A_44760169	NC_021163.1	Ca_Kabuli_Chr04	44760169	GG	AA	AA	URR	101495453	F-box/LRR-repeat protein 15
SNP_30315_A_44760171	NC_021163.1	Ca_Kabuli_Chr04	44760171	CC	TT	TT	URR	101495453	F-box/LRR-repeat protein 15
SNP_30316_A_44773392	NC_021163.1	Ca_Kabuli_Chr04	44773392	CC	TT	TT	INTERGENIC		
SNP_30318_A_44773925	NC_021163.1	Ca_Kabuli_Chr04	44773925	GG	AA	AA	INTERGENIC		
SNP_30319_A_44773926	NC_021163.1	Ca_Kabuli_Chr04	44773926	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30320_A_44773963	NC_021163.1	Ca_Kabuli_Chr04	44773963	AA	GG	GG	INTERGENIC		
SNP_30321_A_44773967	NC_021163.1	Ca_Kabuli_Chr04	44773967	AA	GG	GG	INTERGENIC		
SNP_30322_A_44776328	NC_021163.1	Ca_Kabuli_Chr04	44776328	TT	CC	CC	INTERGENIC		
SNP_30323_A_44779242	NC_021163.1	Ca_Kabuli_Chr04	44779242	GG	CC	CC	INTERGENIC		
SNP_30324_A_44779458	NC_021163.1	Ca_Kabuli_Chr04	44779458	GG	AA	AA	INTERGENIC		
SNP_30325_A_44786588	NC_021163.1	Ca_Kabuli_Chr04	44786588	TT	AA	AA	INTERGENIC		
SNP_30326_A_44790608	NC_021163.1	Ca_Kabuli_Chr04	44790608	AA	TT	TT	DRR	101503736	protein QUIRKY-like
SNP_30327_A_44790618	NC_021163.1	Ca_Kabuli_Chr04	44790618	TT	CC	CC	DRR	101503736	protein QUIRKY-like
SNP_30328_A_44816284	NC_021163.1	Ca_Kabuli_Chr04	44816284	CC	TT	TT	INTRON	101496541	myosin-15-like
SNP_30329_A_44819653	NC_021163.1	Ca_Kabuli_Chr04	44819653	AA	GG	GG	INTRON	101496541	myosin-15-like
SNP_30330_A_44819671	NC_021163.1	Ca_Kabuli_Chr04	44819671	CC	TT	TT	INTRON	101496541	myosin-15-like
SNP_30331_A_44819682	NC_021163.1	Ca_Kabuli_Chr04	44819682	AA	GG	GG	INTRON	101496541	myosin-15-like
SNP_30332_A_44819941	NC_021163.1	Ca_Kabuli_Chr04	44819941	TT	CC	CC	INTRON	101496541	myosin-15-like
SNP_30333_A_44819988	NC_021163.1	Ca_Kabuli_Chr04	44819988	CC	TT	TT	INTRON	101496541	myosin-15-like
SNP_30334_A_44836845	NC_021163.1	Ca_Kabuli_Chr04	44836845	TT	AA	AA	INTERGENIC		
SNP_30335_A_44837685	NC_021163.1	Ca_Kabuli_Chr04	44837685	CC	TT	TT	INTERGENIC		
SNP_30336_A_44843332	NC_021163.1	Ca_Kabuli_Chr04	44843332	TT	CC	CC	INTERGENIC		
SNP_30337_A_44844003	NC_021163.1	Ca_Kabuli_Chr04	44844003	AA	GG	GG	INTERGENIC		
SNP_30338_A_44844021	NC_021163.1	Ca_Kabuli_Chr04	44844021	TT	CC	CC	INTERGENIC		
SNP_30339_A_44844039	NC_021163.1	Ca_Kabuli_Chr04	44844039	GG	CC	CC	INTERGENIC		
SNP_30340_A_44844064	NC_021163.1	Ca_Kabuli_Chr04	44844064	CC	TT	TT	INTERGENIC		
SNP_30341_A_44844077	NC_021163.1	Ca_Kabuli_Chr04	44844077	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30342_A_44854797	NC_021163.1	Ca_Kabuli_Chr04	44854797	TT	AA	AA	URR	101497410	fatty-acid-binding protein 2
SNP_30343_A_44861486	NC_021163.1	Ca_Kabuli_Chr04	44861486	CC	GG	GG	INTRON	101497747	guanine nucleotide-binding protein alpha-1 subunit
SNP_30344_A_44865527	NC_021163.1	Ca_Kabuli_Chr04	44865527	TT	CC	CC	INTERGENIC		
SNP_30345_A_44866494	NC_021163.1	Ca_Kabuli_Chr04	44866494	TT	CC	CC	DRR	101498279	uncharacterized LOC101498279
SNP_30346_A_44872676	NC_021163.1	Ca_Kabuli_Chr04	44872676	GG	AA	AA	URR	101498279	uncharacterized LOC101498279
SNP_30347_A_44872699	NC_021163.1	Ca_Kabuli_Chr04	44872699	AA	GG	GG	URR	101498279	uncharacterized LOC101498279
SNP_30348_A_44885934	NC_021163.1	Ca_Kabuli_Chr04	44885934	CC	TT	TT	INTERGENIC		
SNP_30350_A_44889809	NC_021163.1	Ca_Kabuli_Chr04	44889809	CC	TT	TT	INTERGENIC		
SNP_30351_A_44890724	NC_021163.1	Ca_Kabuli_Chr04	44890724	CC	TT	TT	INTERGENIC		
SNP_30352_A_44890774	NC_021163.1	Ca_Kabuli_Chr04	44890774	AA	GG	GG	INTERGENIC		
SNP_30353_A_44890798	NC_021163.1	Ca_Kabuli_Chr04	44890798	TT	GG	GG	INTERGENIC		
SNP_30355_A_44910706	NC_021163.1	Ca_Kabuli_Chr04	44910706	GG	CC	CC	INTERGENIC		
SNP_30356_A_44915585	NC_021163.1	Ca_Kabuli_Chr04	44915585	CC	TT	TT	INTERGENIC		
SNP_30357_A_44918612	NC_021163.1	Ca_Kabuli_Chr04	44918612	GG	AA	AA	URR	101499587	uncharacterized LOC101499587
SNP_30358_A_44921563	NC_021163.1	Ca_Kabuli_Chr04	44921563	TT	CC	CC	URR	101499891	cytochrome P450 711A1
SNP_30359_A_44921579	NC_021163.1	Ca_Kabuli_Chr04	44921579	GG	AA	AA	URR	101499891	cytochrome P450 711A1
SNP_30360_A_44921594	NC_021163.1	Ca_Kabuli_Chr04	44921594	AA	GG	GG	URR	101499891	cytochrome P450 711A1
SNP_30361_A_44921685	NC_021163.1	Ca_Kabuli_Chr04	44921685	CC	TT	TT	URR	101499891	cytochrome P450 711A1
SNP_30362_A_44928800	NC_021163.1	Ca_Kabuli_Chr04	44928800	TT	CC	CC	INTERGENIC		
SNP_30363_A_44936793	NC_021163.1	Ca_Kabuli_Chr04	44936793	AA	GG	GG	INTERGENIC		
SNP_30364_A_44938892	NC_021163.1	Ca_Kabuli_Chr04	44938892	GG	AA	AA	INTERGENIC		
SNP_30365_A_44938896	NC_021163.1	Ca_Kabuli_Chr04	44938896	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30366_A_44938902	NC_021163.1	Ca_Kabuli_Chr04	44938902	GG	AA	AA	INTERGENIC		
SNP_30367_A_44947406	NC_021163.1	Ca_Kabuli_Chr04	44947406	GG	AA	AA	INTERGENIC		
SNP_30369_A_44953454	NC_021163.1	Ca_Kabuli_Chr04	44953454	TT	AA	AA	URR	101501064	uncharacterized LOC101501064
SNP_30370_A_44953743	NC_021163.1	Ca_Kabuli_Chr04	44953743	TT	AA	AA	URR	101501064	uncharacterized LOC101501064
SNP_30371_A_44953759	NC_021163.1	Ca_Kabuli_Chr04	44953759	AA	TT	TT	URR	101501064	uncharacterized LOC101501064
SNP_30372_A_44953848	NC_021163.1	Ca_Kabuli_Chr04	44953848	GG	TT	TT	URR	101501064	uncharacterized LOC101501064
SNP_30374_A_44967333	NC_021163.1	Ca_Kabuli_Chr04	44967333	GG	CC	CC	INTRON	101501694	protein indeterminate-domain 7-like
SNP_30376_A_44970217	NC_021163.1	Ca_Kabuli_Chr04	44970217	GG	AA	AA	URR	101501694	protein indeterminate-domain 7-like
SNP_30377_A_44970229	NC_021163.1	Ca_Kabuli_Chr04	44970229	TT	CC	CC	URR	101501694	protein indeterminate-domain 7-like
SNP_30378_A_44970247	NC_021163.1	Ca_Kabuli_Chr04	44970247	CC	GG	GG	URR	101501694	protein indeterminate-domain 7-like
SNP_30379_A_44970250	NC_021163.1	Ca_Kabuli_Chr04	44970250	AA	GG	GG	URR	101501694	protein indeterminate-domain 7-like
SNP_30380_A_44970263	NC_021163.1	Ca_Kabuli_Chr04	44970263	AA	TT	TT	URR	101501694	protein indeterminate-domain 7-like
SNP_30381_A_44970445	NC_021163.1	Ca_Kabuli_Chr04	44970445	CC	AA	AA	URR	101501694	protein indeterminate-domain 7-like
SNP_30383_A_44972279	NC_021163.1	Ca_Kabuli_Chr04	44972279	TT	CC	CC	INTERGENIC		
SNP_30384_A_44982730	NC_021163.1	Ca_Kabuli_Chr04	44982730	AA	CC	CC	INTRON	101502020	uncharacterized LOC101502020
SNP_30385_A_44985074	NC_021163.1	Ca_Kabuli_Chr04	44985074	CC	AA	AA	URR	101502020	uncharacterized LOC101502020
SNP_30386_A_44986690	NC_021163.1	Ca_Kabuli_Chr04	44986690	AA	CC	CC	INTERGENIC		
SNP_30387_A_44987409	NC_021163.1	Ca_Kabuli_Chr04	44987409	AA	GG	GG	INTERGENIC		
SNP_30389_A_44987741	NC_021163.1	Ca_Kabuli_Chr04	44987741	TT	CC	CC	DRR	101502873	delta(8)-fatty-acid desaturase-like
SNP_30391_A_44988165	NC_021163.1	Ca_Kabuli_Chr04	44988165	AA	CC	CC	DRR	101502873	delta(8)-fatty-acid desaturase-like
SNP_30392_A_44990800	NC_021163.1	Ca_Kabuli_Chr04	44990800	TT	AA	AA	URR	101502873	delta(8)-fatty-acid desaturase-like
SNP_30393_A_44990827	NC_021163.1	Ca_Kabuli_Chr04	44990827	TT	GG	GG	URR	101502873	delta(8)-fatty-acid desaturase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30394_A_44993897	NC_021163.1	Ca_Kabuli_Chr04	44993897	GG	AA	AA	DRR	101503202	uncharacterized LOC101503202
SNP_30395_A_44993936	NC_021163.1	Ca_Kabuli_Chr04	44993936	GG	AA	AA	DRR	101503202	uncharacterized LOC101503202
SNP_30396_A_44998377	NC_021163.1	Ca_Kabuli_Chr04	44998377	AA	GG	GG	URR	101503202	uncharacterized LOC101503202
SNP_30397_A_44998393	NC_021163.1	Ca_Kabuli_Chr04	44998393	AA	TT	TT	URR	101503202	uncharacterized LOC101503202
SNP_30399_A_45002487	NC_021163.1	Ca_Kabuli_Chr04	45002487	TT	GG	GG	INTERGENIC		
SNP_30400_A_45002706	NC_021163.1	Ca_Kabuli_Chr04	45002706	CC	TT	TT	INTERGENIC		
SNP_30401_A_45002757	NC_021163.1	Ca_Kabuli_Chr04	45002757	TT	GG	GG	INTERGENIC		
SNP_30403_A_45006430	NC_021163.1	Ca_Kabuli_Chr04	45006430	TT	CC	CC	INTERGENIC		
SNP_30404_A_45011145	NC_021163.1	Ca_Kabuli_Chr04	45011145	AA	GG	GG	URR	101503735	uncharacterized LOC101503735
SNP_30405_A_45011644	NC_021163.1	Ca_Kabuli_Chr04	45011644	CC	GG	GG	URR	101503735	uncharacterized LOC101503735
SNP_30406_A_45014747	NC_021163.1	Ca_Kabuli_Chr04	45014747	TT	GG	GG	INTERGENIC		
SNP_30407_A_45014764	NC_021163.1	Ca_Kabuli_Chr04	45014764	CC	TT	TT	INTERGENIC		
SNP_30408_A_45014777	NC_021163.1	Ca_Kabuli_Chr04	45014777	CC	TT	TT	INTERGENIC		
SNP_30409_A_45016634	NC_021163.1	Ca_Kabuli_Chr04	45016634	AA	CC	CC	INTERGENIC		
SNP_30410_A_45016635	NC_021163.1	Ca_Kabuli_Chr04	45016635	AA	TT	TT	INTERGENIC		
SNP_30411_A_45016657	NC_021163.1	Ca_Kabuli_Chr04	45016657	TT	CC	CC	INTERGENIC		
SNP_30412_A_45016967	NC_021163.1	Ca_Kabuli_Chr04	45016967	CC	GG	GG	INTERGENIC		
SNP_30413_A_45016979	NC_021163.1	Ca_Kabuli_Chr04	45016979	AA	GG	GG	INTERGENIC		
SNP_30414_A_45022260	NC_021163.1	Ca_Kabuli_Chr04	45022260	GG	CC	CC	INTRON	101504063	cytosolic Fe-S cluster assembly factor NBP35
SNP_30415_A_45022287	NC_021163.1	Ca_Kabuli_Chr04	45022287	TT	CC	CC	INTRON	101504063	cytosolic Fe-S cluster assembly factor NBP35
SNP_30416_A_45030799	NC_021163.1	Ca_Kabuli_Chr04	45030799	TT	CC	CC	INTERGENIC		
SNP_30417_A_45036117	NC_021163.1	Ca_Kabuli_Chr04	45036117	GG	AA	AA	URR	101504600	zinc transporter 4, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30418_A_45036328	NC_021163.1	Ca_Kabuli_Chr04	45036328	CC	TT	TT	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30419_A_45036368	NC_021163.1	Ca_Kabuli_Chr04	45036368	AA	GG	GG	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30420_A_45036372	NC_021163.1	Ca_Kabuli_Chr04	45036372	CC	TT	TT	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30421_A_45036382	NC_021163.1	Ca_Kabuli_Chr04	45036382	GG	CC	CC	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30422_A_45036395	NC_021163.1	Ca_Kabuli_Chr04	45036395	CC	TT	TT	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30423_A_45036829	NC_021163.1	Ca_Kabuli_Chr04	45036829	GG	TT	TT	URR		101504600	zinc transporter 4, chloroplastic-like
SNP_30424_A_45048418	NC_021163.1	Ca_Kabuli_Chr04	45048418	TT	CC	CC	INTERGENIC			
SNP_30425_A_45048564	NC_021163.1	Ca_Kabuli_Chr04	45048564	GG	AA	AA	INTERGENIC			
SNP_30426_A_45048918	NC_021163.1	Ca_Kabuli_Chr04	45048918	AA	TT	TT	INTERGENIC			
SNP_30427_A_45049400	NC_021163.1	Ca_Kabuli_Chr04	45049400	AA	CC	CC	INTERGENIC			
SNP_30428_A_45049465	NC_021163.1	Ca_Kabuli_Chr04	45049465	CC	TT	TT	INTERGENIC			
SNP_30429_A_45049484	NC_021163.1	Ca_Kabuli_Chr04	45049484	GG	AA	AA	INTERGENIC			
SNP_30430_A_45049782	NC_021163.1	Ca_Kabuli_Chr04	45049782	GG	AA	AA	INTERGENIC			
SNP_30431_A_45051585	NC_021163.1	Ca_Kabuli_Chr04	45051585	AA	GG	GG	DRR		101504919	putative GATA transcription factor 22
SNP_30432_A_45051741	NC_021163.1	Ca_Kabuli_Chr04	45051741	GG	AA	AA	DRR		101504919	putative GATA transcription factor 22
SNP_30433_A_45053771	NC_021163.1	Ca_Kabuli_Chr04	45053771	CC	GG	GG	NON_SYNONYMOUS_CODING		101504919	putative GATA transcription factor 22
SNP_30434_A_45060115	NC_021163.1	Ca_Kabuli_Chr04	45060115	GG	AA	AA	INTERGENIC			
SNP_30435_A_45060344	NC_021163.1	Ca_Kabuli_Chr04	45060344	GG	TT	TT	INTERGENIC			
SNP_30436_A_45068007	NC_021163.1	Ca_Kabuli_Chr04	45068007	TT	AA	AA	DRR		101505222	disease resistance protein RPM1-like
SNP_30438_A_45069869	NC_021163.1	Ca_Kabuli_Chr04	45069869	CC	TT	TT	INTRON		101505222	disease resistance protein RPM1-like
SNP_30440_A_45076917	NC_021163.1	Ca_Kabuli_Chr04	45076917	AA	CC	CC	INTERGENIC			
SNP_30441_A_45077225	NC_021163.1	Ca_Kabuli_Chr04	45077225	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30442_A_45078689	NC_021163.1	Ca_Kabuli_Chr04	45078689	AA	CC	CC	INTERGENIC		
SNP_30443_A_45078709	NC_021163.1	Ca_Kabuli_Chr04	45078709	TT	AA	AA	INTERGENIC		
SNP_30444_A_45104524	NC_021163.1	Ca_Kabuli_Chr04	45104524	GG	AA	AA	DRR	101506856	DNA topoisomerase 1-like
SNP_30445_A_45152192	NC_021163.1	Ca_Kabuli_Chr04	45152192	AA	CC	CC	INTRON	101510154	histone deacetylase 2
SNP_30446_A_45154017	NC_021163.1	Ca_Kabuli_Chr04	45154017	CC	TT	TT	INTRON	101510154	histone deacetylase 2
SNP_30447_A_45154060	NC_021163.1	Ca_Kabuli_Chr04	45154060	AA	TT	TT	INTRON	101510154	histone deacetylase 2
SNP_30448_A_45163619	NC_021163.1	Ca_Kabuli_Chr04	45163619	AA	CC	CC	INTRON	101510477	K(+) efflux antiporter 6
SNP_30449_A_45163621	NC_021163.1	Ca_Kabuli_Chr04	45163621	TT	CC	CC	INTRON	101510477	K(+) efflux antiporter 6
SNP_30450_A_45164118	NC_021163.1	Ca_Kabuli_Chr04	45164118	CC	TT	TT	DRR	101510477	K(+) efflux antiporter 6
SNP_30451_A_45166970	NC_021163.1	Ca_Kabuli_Chr04	45166970	CC	AA	AA	INTERGENIC		
SNP_30452_A_45168187	NC_021163.1	Ca_Kabuli_Chr04	45168187	TT	CC	CC	INTERGENIC		
SNP_30453_A_45169960	NC_021163.1	Ca_Kabuli_Chr04	45169960	AA	GG	GG	INTERGENIC		
SNP_30454_A_45169973	NC_021163.1	Ca_Kabuli_Chr04	45169973	AA	GG	GG	INTERGENIC		
SNP_30455_A_45176290	NC_021163.1	Ca_Kabuli_Chr04	45176290	CC	TT	TT	INTERGENIC		
SNP_30456_A_45178239	NC_021163.1	Ca_Kabuli_Chr04	45178239	AA	GG	GG	INTERGENIC		
SNP_30457_A_45186495	NC_021163.1	Ca_Kabuli_Chr04	45186495	TT	AA	AA	INTERGENIC		
SNP_30458_A_45195778	NC_021163.1	Ca_Kabuli_Chr04	45195778	GG	AA	AA	INTERGENIC		
SNP_30459_A_45196108	NC_021163.1	Ca_Kabuli_Chr04	45196108	GG	AA	AA	INTERGENIC		
SNP_30460_A_45211440	NC_021163.1	Ca_Kabuli_Chr04	45211440	GG	CC	CC	URR	101512310	26S proteasome non-ATPase regulatory subunit 8 homolog A-like
SNP_30461_A_45221891	NC_021163.1	Ca_Kabuli_Chr04	45221891	CC	GG	GG	URR	101512639	far upstream element-binding protein 1-like
SNP_30462_A_45232330	NC_021163.1	Ca_Kabuli_Chr04	45232330	AA	GG	GG	DRR	101513604	uncharacterized LOC101513604
SNP_30463_A_45234950	NC_021163.1	Ca_Kabuli_Chr04	45234950	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30464_A_45265979	NC_021163.1	Ca_Kabuli_Chr04	45265979	GG	CC	CC	INTRON	101513930	SWI5-dependent HO expression protein 3-like
SNP_30465_A_45270172	NC_021163.1	Ca_Kabuli_Chr04	45270172	CC	TT	TT	URR	101513930	SWI5-dependent HO expression protein 3-like
SNP_30466_A_45273148	NC_021163.1	Ca_Kabuli_Chr04	45273148	AA	GG	GG	INTERGENIC		
SNP_30467_A_45273150	NC_021163.1	Ca_Kabuli_Chr04	45273150	TT	AA	AA	INTERGENIC		
SNP_30468_A_45273174	NC_021163.1	Ca_Kabuli_Chr04	45273174	AA	TT	TT	INTERGENIC		
SNP_30469_A_45273185	NC_021163.1	Ca_Kabuli_Chr04	45273185	AA	GG	GG	INTERGENIC		
SNP_30470_A_45273283	NC_021163.1	Ca_Kabuli_Chr04	45273283	AA	CC	CC	INTERGENIC		
SNP_30471_A_45289658	NC_021163.1	Ca_Kabuli_Chr04	45289658	TT	CC	CC	INTERGENIC		
SNP_30472_A_45289977	NC_021163.1	Ca_Kabuli_Chr04	45289977	AA	GG	GG	INTERGENIC		
SNP_30473_A_45290052	NC_021163.1	Ca_Kabuli_Chr04	45290052	CC	AA	AA	INTERGENIC		
SNP_30474_A_45298548	NC_021163.1	Ca_Kabuli_Chr04	45298548	TT	CC	CC	INTERGENIC		
SNP_30475_A_45308193	NC_021163.1	Ca_Kabuli_Chr04	45308193	AA	GG	GG	INTRON	101515562	UPF0587 protein C1orf123 homolog
SNP_30476_A_45318102	NC_021163.1	Ca_Kabuli_Chr04	45318102	CC	AA	AA	INTERGENIC		
SNP_30477_A_45320414	NC_021163.1	Ca_Kabuli_Chr04	45320414	TT	CC	CC	INTERGENIC		
SNP_30478_A_45320430	NC_021163.1	Ca_Kabuli_Chr04	45320430	TT	GG	GG	INTERGENIC		
SNP_30479_A_45320639	NC_021163.1	Ca_Kabuli_Chr04	45320639	TT	CC	CC	INTERGENIC		
SNP_30480_A_45323730	NC_021163.1	Ca_Kabuli_Chr04	45323730	TT	CC	CC	DRR	101489305	uncharacterized LOC101489305
SNP_30481_A_45326033	NC_021163.1	Ca_Kabuli_Chr04	45326033	GG	AA	AA	INTERGENIC		
SNP_30482_A_45328251	NC_021163.1	Ca_Kabuli_Chr04	45328251	CC	TT	TT	INTERGENIC		
SNP_30483_A_45339379	NC_021163.1	Ca_Kabuli_Chr04	45339379	GG	AA	AA	INTERGENIC		
SNP_30485_A_45350274	NC_021163.1	Ca_Kabuli_Chr04	45350274	TT	AA	AA	INTERGENIC		
SNP_30486_A_45366071	NC_021163.1	Ca_Kabuli_Chr04	45366071	CC	TT	TT	INTRON	101490288	transcription factor RAX2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30488_A_45367103	NC_021163.1	Ca_Kabuli_Chr04	45367103	CC	GG	GG	INTRON	101490288	transcription factor RAX2-like
SNP_30489_A_45368488	NC_021163.1	Ca_Kabuli_Chr04	45368488	AA	CC	CC	URR	101490288	transcription factor RAX2-like
SNP_30491_A_45369208	NC_021163.1	Ca_Kabuli_Chr04	45369208	GG	AA	AA	URR	101490288	transcription factor RAX2-like
SNP_30492_A_45370338	NC_021163.1	Ca_Kabuli_Chr04	45370338	TT	CC	CC	DRR	101490606	uncharacterized LOC101490606
SNP_30493_A_45370387	NC_021163.1	Ca_Kabuli_Chr04	45370387	TT	AA	AA	DRR	101490606	uncharacterized LOC101490606
SNP_30494_A_45370503	NC_021163.1	Ca_Kabuli_Chr04	45370503	TT	GG	GG	DRR	101490606	uncharacterized LOC101490606
SNP_30495_A_45370569	NC_021163.1	Ca_Kabuli_Chr04	45370569	TT	AA	AA	DRR	101490606	uncharacterized LOC101490606
SNP_30496_A_45371075	NC_021163.1	Ca_Kabuli_Chr04	45371075	CC	TT	TT	DRR	101490606	uncharacterized LOC101490606
SNP_30497_A_45371478	NC_021163.1	Ca_Kabuli_Chr04	45371478	TT	CC	CC	INTERGENIC		
SNP_30498_A_45374397	NC_021163.1	Ca_Kabuli_Chr04	45374397	GG	CC	CC	NON_SYNONYMOUS_CODING	101490606	uncharacterized LOC101490606
SNP_30500_A_45380439	NC_021163.1	Ca_Kabuli_Chr04	45380439	GG	AA	AA	INTERGENIC		
SNP_30501_A_45382361	NC_021163.1	Ca_Kabuli_Chr04	45382361	GG	TT	TT	INTERGENIC		
SNP_30502_A_45384448	NC_021163.1	Ca_Kabuli_Chr04	45384448	TT	AA	AA	INTERGENIC		
SNP_30503_A_45385510	NC_021163.1	Ca_Kabuli_Chr04	45385510	CC	AA	AA	INTERGENIC		
SNP_30504_A_45389265	NC_021163.1	Ca_Kabuli_Chr04	45389265	AA	GG	GG	INTERGENIC		
SNP_30505_A_45389371	NC_021163.1	Ca_Kabuli_Chr04	45389371	GG	CC	CC	INTERGENIC		
SNP_30506_A_45389682	NC_021163.1	Ca_Kabuli_Chr04	45389682	TT	CC	CC	INTERGENIC		
SNP_30507_A_45390374	NC_021163.1	Ca_Kabuli_Chr04	45390374	CC	AA	AA	INTERGENIC		
SNP_30508_A_45393555	NC_021163.1	Ca_Kabuli_Chr04	45393555	AA	CC	CC	INTERGENIC		
SNP_30509_A_45393760	NC_021163.1	Ca_Kabuli_Chr04	45393760	CC	AA	AA	INTERGENIC		
SNP_30510_A_45397369	NC_021163.1	Ca_Kabuli_Chr04	45397369	CC	TT	TT	INTERGENIC		
SNP_30512_A_45399259	NC_021163.1	Ca_Kabuli_Chr04	45399259	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30513_A_45399263	NC_021163.1	Ca_Kabuli_Chr04	45399263	TT	CC	CC	INTERGENIC		
SNP_30514_A_45399295	NC_021163.1	Ca_Kabuli_Chr04	45399295	AA	TT	TT	INTERGENIC		
SNP_30515_A_45399316	NC_021163.1	Ca_Kabuli_Chr04	45399316	TT	CC	CC	INTERGENIC		
SNP_30518_A_45406090	NC_021163.1	Ca_Kabuli_Chr04	45406090	CC	TT	TT	INTERGENIC		
SNP_30519_A_45406111	NC_021163.1	Ca_Kabuli_Chr04	45406111	GG	AA	AA	INTERGENIC		
SNP_30520_A_45408412	NC_021163.1	Ca_Kabuli_Chr04	45408412	CC	TT	TT	INTERGENIC		
SNP_30521_A_45408781	NC_021163.1	Ca_Kabuli_Chr04	45408781	AA	GG	GG	INTERGENIC		
SNP_30522_A_45409157	NC_021163.1	Ca_Kabuli_Chr04	45409157	GG	AA	AA	INTERGENIC		
SNP_30523_A_45411454	NC_021163.1	Ca_Kabuli_Chr04	45411454	GG	AA	AA	INTERGENIC		
SNP_30524_A_45414357	NC_021163.1	Ca_Kabuli_Chr04	45414357	CC	AA	AA	DRR	101490927	homeotic protein knotted-1
SNP_30525_A_45414452	NC_021163.1	Ca_Kabuli_Chr04	45414452	AA	CC	CC	DRR	101490927	homeotic protein knotted-1
SNP_30526_A_45414472	NC_021163.1	Ca_Kabuli_Chr04	45414472	CC	TT	TT	DRR	101490927	homeotic protein knotted-1
SNP_30527_A_45438289	NC_021163.1	Ca_Kabuli_Chr04	45438289	AA	GG	GG	INTERGENIC		
SNP_30528_A_45438290	NC_021163.1	Ca_Kabuli_Chr04	45438290	CC	TT	TT	INTERGENIC		
SNP_30529_A_45442224	NC_021163.1	Ca_Kabuli_Chr04	45442224	AA	GG	GG	INTERGENIC		
SNP_30530_A_45471679	NC_021163.1	Ca_Kabuli_Chr04	45471679	GG	AA	AA	DRR	101492549	uncharacterized protein At3g49720-like
SNP_30531_A_45471964	NC_021163.1	Ca_Kabuli_Chr04	45471964	GG	AA	AA	DRR	101492549	uncharacterized protein At3g49720-like
SNP_30532_A_45472183	NC_021163.1	Ca_Kabuli_Chr04	45472183	AA	GG	GG	DRR	101492549	uncharacterized protein At3g49720-like
SNP_30533_A_45490011	NC_021163.1	Ca_Kabuli_Chr04	45490011	GG	AA	AA	INTERGENIC		
SNP_30536_A_45582951	NC_021163.1	Ca_Kabuli_Chr04	45582951	AA	GG	GG	INTERGENIC		
SNP_30537_A_45584639	NC_021163.1	Ca_Kabuli_Chr04	45584639	AA	TT	TT	INTERGENIC		
SNP_30538_A_45590166	NC_021163.1	Ca_Kabuli_Chr04	45590166	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30540_A_45645663	NC_021163.1	Ca_Kabuli_Chr04	45645663	GG	AA	AA	INTERGENIC			
SNP_30541_A_45646086	NC_021163.1	Ca_Kabuli_Chr04	45646086	TT	AA	AA	INTERGENIC			
SNP_30542_A_45646089	NC_021163.1	Ca_Kabuli_Chr04	45646089	CC	AA	AA	INTERGENIC			
SNP_30543_A_45756241	NC_021163.1	Ca_Kabuli_Chr04	45756241	AA	GG	GG	URR	101509617		uncharacterized LOC101509617
SNP_30544_A_45756408	NC_021163.1	Ca_Kabuli_Chr04	45756408	GG	TT	TT	URR	101509617		uncharacterized LOC101509617
SNP_30545_A_45756433	NC_021163.1	Ca_Kabuli_Chr04	45756433	TT	CC	CC	URR	101509617		uncharacterized LOC101509617
SNP_30547_A_45756597	NC_021163.1	Ca_Kabuli_Chr04	45756597	TT	AA	AA	URR	101509617		uncharacterized LOC101509617
SNP_30548_A_45807485	NC_021163.1	Ca_Kabuli_Chr04	45807485	AA	GG	GG	DRR	101511029		uncharacterized LOC101511029
SNP_30549_A_45826278	NC_021163.1	Ca_Kabuli_Chr04	45826278	TT	CC	CC	INTERGENIC			
SNP_30550_A_45922929	NC_021163.1	Ca_Kabuli_Chr04	45922929	AA	GG	GG	INTERGENIC			
SNP_30556_A_46005851	NC_021163.1	Ca_Kabuli_Chr04	46005851	GG	AA	AA	INTERGENIC			
SNP_30557_A_46005941	NC_021163.1	Ca_Kabuli_Chr04	46005941	CC	TT	TT	INTERGENIC			
SNP_30558_A_46015823	NC_021163.1	Ca_Kabuli_Chr04	46015823	AA	TT	TT	INTERGENIC			
SNP_30559_A_46060549	NC_021163.1	Ca_Kabuli_Chr04	46060549	AA	GG	GG	INTERGENIC			
SNP_30560_A_46113467	NC_021163.1	Ca_Kabuli_Chr04	46113467	GG	AA	AA	INTERGENIC			
SNP_30561_A_46171113	NC_021163.1	Ca_Kabuli_Chr04	46171113	CC	TT	TT	INTERGENIC			
SNP_30562_A_46210567	NC_021163.1	Ca_Kabuli_Chr04	46210567	AA	GG	GG	URR	101492320		MFP1 attachment factor 1-like
SNP_30564_A_46321989	NC_021163.1	Ca_Kabuli_Chr04	46321989	AA	GG	GG	INTERGENIC			
SNP_30565_A_46322024	NC_021163.1	Ca_Kabuli_Chr04	46322024	AA	GG	GG	INTERGENIC			
SNP_30566_A_46322268	NC_021163.1	Ca_Kabuli_Chr04	46322268	AA	GG	GG	INTERGENIC			
SNP_30567_A_46322341	NC_021163.1	Ca_Kabuli_Chr04	46322341	GG	AA	AA	INTERGENIC			
SNP_30568_A_46322553	NC_021163.1	Ca_Kabuli_Chr04	46322553	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30569_A_46338501	NC_021163.1	Ca_Kabuli_Chr04	46338501	TT	AA	AA	DRR	101499271	uncharacterized LOC101499271
SNP_30570_A_46338504	NC_021163.1	Ca_Kabuli_Chr04	46338504	GG	AA	AA	DRR	101499271	uncharacterized LOC101499271
SNP_30571_A_46338506	NC_021163.1	Ca_Kabuli_Chr04	46338506	CC	TT	TT	DRR	101499271	uncharacterized LOC101499271
SNP_30573_A_46385956	NC_021163.1	Ca_Kabuli_Chr04	46385956	CC	AA	AA	SYNONYMOUS_CODING	101488526	serine/threonine-protein phosphatase 7 long form homolog
SNP_30575_A_46387920	NC_021163.1	Ca_Kabuli_Chr04	46387920	TT	CC	CC	URR	101488526	serine/threonine-protein phosphatase 7 long form homolog
SNP_30576_A_46387930	NC_021163.1	Ca_Kabuli_Chr04	46387930	TT	CC	CC	URR	101488526	serine/threonine-protein phosphatase 7 long form homolog
SNP_30577_A_46388170	NC_021163.1	Ca_Kabuli_Chr04	46388170	GG	TT	TT	URR	101488526	serine/threonine-protein phosphatase 7 long form homolog
SNP_30578_A_46471787	NC_021163.1	Ca_Kabuli_Chr04	46471787	AA	GG	GG	INTERGENIC		
SNP_30579_A_46495131	NC_021163.1	Ca_Kabuli_Chr04	46495131	AA	CC	CC	DRR	101489522	Unknown function
SNP_30580_A_46495311	NC_021163.1	Ca_Kabuli_Chr04	46495311	TT	AA	AA	INTERGENIC		
SNP_30581_A_46495580	NC_021163.1	Ca_Kabuli_Chr04	46495580	AA	GG	GG	INTERGENIC		
SNP_30582_A_46495585	NC_021163.1	Ca_Kabuli_Chr04	46495585	GG	AA	AA	INTERGENIC		
SNP_30584_A_46557122	NC_021163.1	Ca_Kabuli_Chr04	46557122	AA	GG	GG	INTRON	101506002	uncharacterized LOC101506002
SNP_30585_A_46638287	NC_021163.1	Ca_Kabuli_Chr04	46638287	TT	CC	CC	INTERGENIC		
SNP_30586_A_46657858	NC_021163.1	Ca_Kabuli_Chr04	46657858	TT	AA	AA	INTERGENIC		
SNP_30587_A_46658242	NC_021163.1	Ca_Kabuli_Chr04	46658242	AA	CC	CC	DRR	101490493	BR11 kinase inhibitor 1-like
SNP_30592_A_47239282	NC_021163.1	Ca_Kabuli_Chr04	47239282	TT	CC	CC	URR	101493524	uncharacterized LOC101493524
SNP_30593_A_47239422	NC_021163.1	Ca_Kabuli_Chr04	47239422	TT	CC	CC	URR	101493524	uncharacterized LOC101493524
SNP_30594_A_47245906	NC_021163.1	Ca_Kabuli_Chr04	47245906	AA	GG	GG	URR	101493841	B3 domain-containing protein Os01g0723500-like
SNP_30595_A_47247264	NC_021163.1	Ca_Kabuli_Chr04	47247264	CC	TT	TT	URR	101493841	B3 domain-containing protein Os01g0723500-like
SNP_30596_A_47247327	NC_021163.1	Ca_Kabuli_Chr04	47247327	TT	AA	AA	URR	101493841	B3 domain-containing protein Os01g0723500-like
SNP_30597_A_47249943	NC_021163.1	Ca_Kabuli_Chr04	47249943	CC	TT	TT	URR	101494169	B3 domain-containing protein REM16-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30598_A_47249952	NC_021163.1	Ca_Kabuli_Chr04	47249952	TT	CC	CC	URR	101494169	B3 domain-containing protein REM16-like
SNP_30599_A_47249987	NC_021163.1	Ca_Kabuli_Chr04	47249987	CC	TT	TT	URR	101494169	B3 domain-containing protein REM16-like
SNP_30600_A_47250057	NC_021163.1	Ca_Kabuli_Chr04	47250057	CC	TT	TT	URR	101494169	B3 domain-containing protein REM16-like
SNP_30601_A_47250101	NC_021163.1	Ca_Kabuli_Chr04	47250101	TT	AA	AA	URR	101494169	B3 domain-containing protein REM16-like
SNP_30602_A_47250136	NC_021163.1	Ca_Kabuli_Chr04	47250136	TT	CC	CC	URR	101494169	B3 domain-containing protein REM16-like
SNP_30603_A_47254574	NC_021163.1	Ca_Kabuli_Chr04	47254574	AA	CC	CC	INTERGENIC		
SNP_30604_A_47256588	NC_021163.1	Ca_Kabuli_Chr04	47256588	AA	GG	GG	INTRON	101494479	B3 domain-containing protein REM16-like
SNP_30605_A_47262682	NC_021163.1	Ca_Kabuli_Chr04	47262682	TT	CC	CC	INTERGENIC		
SNP_30606_A_47262683	NC_021163.1	Ca_Kabuli_Chr04	47262683	GG	AA	AA	INTERGENIC		
SNP_30607_A_47289009	NC_021163.1	Ca_Kabuli_Chr04	47289009	CC	TT	TT	INTRON	101495338	inactive protein kinase SELMODRAFT_444075-like
SNP_30608_A_47316398	NC_021163.1	Ca_Kabuli_Chr04	47316398	CC	AA	AA	URR	101513385	uncharacterized LOC101513385
SNP_30609_A_47363089	NC_021163.1	Ca_Kabuli_Chr04	47363089	AA	GG	GG	INTERGENIC		
SNP_30610_A_47385806	NC_021163.1	Ca_Kabuli_Chr04	47385806	CC	AA	AA	INTERGENIC		
SNP_30611_A_47437581	NC_021163.1	Ca_Kabuli_Chr04	47437581	GG	CC	CC	DRR	101499064	type I inositol 1,4,5-trisphosphate 5-phosphatase 11
SNP_30613_A_47504606	NC_021163.1	Ca_Kabuli_Chr04	47504606	TT	CC	CC	URR	101501185	pathogenesis-related protein 5-like
SNP_30614_A_47522875	NC_021163.1	Ca_Kabuli_Chr04	47522875	AA	GG	GG	INTERGENIC		
SNP_30615_A_47522915	NC_021163.1	Ca_Kabuli_Chr04	47522915	TT	AA	AA	INTERGENIC		
SNP_30616_A_47530905	NC_021163.1	Ca_Kabuli_Chr04	47530905	AA	GG	GG	INTERGENIC		
SNP_30617_A_47552320	NC_021163.1	Ca_Kabuli_Chr04	47552320	TT	CC	CC	INTERGENIC		
SNP_30618_A_47552332	NC_021163.1	Ca_Kabuli_Chr04	47552332	GG	TT	TT	INTERGENIC		
SNP_30619_A_47573766	NC_021163.1	Ca_Kabuli_Chr04	47573766	AA	TT	TT	INTERGENIC		
SNP_30620_A_47674690	NC_021163.1	Ca_Kabuli_Chr04	47674690	TT	CC	CC	SYNONYMOUS_CODING	101507508	uncharacterized LOC101507508

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30621_A_47686118	NC_021163.1	Ca_Kabuli_Chr04	47686118	AA	GG	GG	INTERGENIC		
SNP_30622_A_47686129	NC_021163.1	Ca_Kabuli_Chr04	47686129	CC	TT	TT	INTERGENIC		
SNP_30623_A_47686187	NC_021163.1	Ca_Kabuli_Chr04	47686187	AA	CC	CC	INTERGENIC		
SNP_30624_A_47704370	NC_021163.1	Ca_Kabuli_Chr04	47704370	GG	AA	AA	INTERGENIC		
SNP_30626_A_47744137	NC_021163.1	Ca_Kabuli_Chr04	47744137	TT	CC	CC	INTERGENIC		
SNP_30630_A_47875036	NC_021163.1	Ca_Kabuli_Chr04	47875036	AA	CC	CC	INTERGENIC		
SNP_30631_A_47875038	NC_021163.1	Ca_Kabuli_Chr04	47875038	GG	AA	AA	INTERGENIC		
SNP_30633_A_47916249	NC_021163.1	Ca_Kabuli_Chr04	47916249	AA	CC	CC	URR	101488756	uncharacterized LOC101488756
SNP_30634_A_47939930	NC_021163.1	Ca_Kabuli_Chr04	47939930	AA	GG	GG	URR	101489090	auxin response factor 5-like
SNP_30635_A_47955555	NC_021163.1	Ca_Kabuli_Chr04	47955555	CC	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30636_A_47955573	NC_021163.1	Ca_Kabuli_Chr04	47955573	TT	GG	GG	INTRON	101489744	auxin response factor 5-like
SNP_30637_A_47958880	NC_021163.1	Ca_Kabuli_Chr04	47958880	TT	GG	GG	NON_SYNONYMOUS_CODING	101489744	auxin response factor 5-like
SNP_30638_A_47958940	NC_021163.1	Ca_Kabuli_Chr04	47958940	CC	AA	AA	SPLICE_SITE_REGION	101489744	auxin response factor 5-like
SNP_30639_A_47958955	NC_021163.1	Ca_Kabuli_Chr04	47958955	GG	AA	AA	INTRON	101489744	auxin response factor 5-like
SNP_30640_A_47959199	NC_021163.1	Ca_Kabuli_Chr04	47959199	GG	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30641_A_47959260	NC_021163.1	Ca_Kabuli_Chr04	47959260	AA	GG	GG	NON_SYNONYMOUS_CODING	101489744	auxin response factor 5-like
SNP_30642_A_47960862	NC_021163.1	Ca_Kabuli_Chr04	47960862	CC	GG	GG	INTRON	101489744	auxin response factor 5-like
SNP_30643_A_47960882	NC_021163.1	Ca_Kabuli_Chr04	47960882	CC	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30644_A_47960958	NC_021163.1	Ca_Kabuli_Chr04	47960958	AA	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30645_A_47960966	NC_021163.1	Ca_Kabuli_Chr04	47960966	GG	AA	AA	INTRON	101489744	auxin response factor 5-like
SNP_30647_A_47961018	NC_021163.1	Ca_Kabuli_Chr04	47961018	CC	AA	AA	INTRON	101489744	auxin response factor 5-like
SNP_30649_A_47961212	NC_021163.1	Ca_Kabuli_Chr04	47961212	AA	TT	TT	INTRON	101489744	auxin response factor 5-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30651_A_47961535	NC_021163.1	Ca_Kabuli_Chr04	47961535	TT	CC	CC	INTRON	101489744	auxin response factor 5-like
SNP_30652_A_47961649	NC_021163.1	Ca_Kabuli_Chr04	47961649	CC	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30653_A_47961664	NC_021163.1	Ca_Kabuli_Chr04	47961664	CC	TT	TT	INTRON	101489744	auxin response factor 5-like
SNP_30654_A_47961758	NC_021163.1	Ca_Kabuli_Chr04	47961758	CC	AA	AA	INTRON	101489744	auxin response factor 5-like
SNP_30655_A_47961908	NC_021163.1	Ca_Kabuli_Chr04	47961908	TT	GG	GG	INTRON	101489744	auxin response factor 5-like
SNP_30656_A_47961956	NC_021163.1	Ca_Kabuli_Chr04	47961956	AA	CC	CC	INTRON	101489744	auxin response factor 5-like
SNP_30657_A_47962076	NC_021163.1	Ca_Kabuli_Chr04	47962076	TT	CC	CC	INTRON	101489744	auxin response factor 5-like
SNP_30658_A_47962711	NC_021163.1	Ca_Kabuli_Chr04	47962711	GG	AA	AA	INTRON	101489744	auxin response factor 5-like
SNP_30659_A_47962778	NC_021163.1	Ca_Kabuli_Chr04	47962778	GG	AA	AA	NON_SYNONYMOUS_CODING	101489744	auxin response factor 5-like
SNP_30660_A_47962978	NC_021163.1	Ca_Kabuli_Chr04	47962978	CC	GG	GG	NON_SYNONYMOUS_CODING	101489744	auxin response factor 5-like
SNP_30661_A_47962981	NC_021163.1	Ca_Kabuli_Chr04	47962981	CC	TT	TT	SYNONYMOUS_CODING	101489744	auxin response factor 5-like
SNP_30662_A_47963111	NC_021163.1	Ca_Kabuli_Chr04	47963111	GG	AA	AA	DRR	101490059	Unknown function
SNP_30663_A_47966373	NC_021163.1	Ca_Kabuli_Chr04	47966373	CC	TT	TT	URR	101490059	Unknown function
SNP_30665_A_47966420	NC_021163.1	Ca_Kabuli_Chr04	47966420	GG	TT	TT	URR	101490059	Unknown function
SNP_30666_A_47966431	NC_021163.1	Ca_Kabuli_Chr04	47966431	TT	CC	CC	URR	101490059	Unknown function
SNP_30667_A_47966441	NC_021163.1	Ca_Kabuli_Chr04	47966441	TT	CC	CC	URR	101490059	Unknown function
SNP_30668_A_47966447	NC_021163.1	Ca_Kabuli_Chr04	47966447	GG	TT	TT	URR	101490059	Unknown function
SNP_30669_A_47966476	NC_021163.1	Ca_Kabuli_Chr04	47966476	AA	GG	GG	URR	101490059	Unknown function
SNP_30670_A_47966500	NC_021163.1	Ca_Kabuli_Chr04	47966500	GG	AA	AA	URR	101490059	Unknown function
SNP_30671_A_47966508	NC_021163.1	Ca_Kabuli_Chr04	47966508	CC	GG	GG	URR	101490059	Unknown function
SNP_30672_A_47967757	NC_021163.1	Ca_Kabuli_Chr04	47967757	AA	GG	GG	URR	101490059	Unknown function
SNP_30673_A_47967800	NC_021163.1	Ca_Kabuli_Chr04	47967800	AA	TT	TT	URR	101490059	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30674_A_47967817	NC_021163.1	Ca_Kabuli_Chr04	47967817	CC	AA	AA	URR	101490059	Unknown function
SNP_30675_A_47980870	NC_021163.1	Ca_Kabuli_Chr04	47980870	GG	AA	AA	URR	101490719	uncharacterized LOC101490719
SNP_30676_A_47981093	NC_021163.1	Ca_Kabuli_Chr04	47981093	AA	CC	CC	URR	101490719	uncharacterized LOC101490719
SNP_30677_A_47981097	NC_021163.1	Ca_Kabuli_Chr04	47981097	AA	TT	TT	URR	101490719	uncharacterized LOC101490719
SNP_30678_A_47982180	NC_021163.1	Ca_Kabuli_Chr04	47982180	CC	GG	GG	URR	101491040	Unknown function
SNP_30679_A_47982273	NC_021163.1	Ca_Kabuli_Chr04	47982273	CC	TT	TT	URR	101491040	Unknown function
SNP_30680_A_47982429	NC_021163.1	Ca_Kabuli_Chr04	47982429	TT	AA	AA	URR	101491040	Unknown function
SNP_30681_A_47982487	NC_021163.1	Ca_Kabuli_Chr04	47982487	GG	TT	TT	URR	101491040	Unknown function
SNP_30682_A_47982587	NC_021163.1	Ca_Kabuli_Chr04	47982587	TT	AA	AA	URR	101491040	Unknown function
SNP_30685_A_47982839	NC_021163.1	Ca_Kabuli_Chr04	47982839	CC	TT	TT	URR	101491040	Unknown function
SNP_30686_A_47983040	NC_021163.1	Ca_Kabuli_Chr04	47983040	AA	TT	TT	DRR	101491354	Unknown function
SNP_30687_A_47983062	NC_021163.1	Ca_Kabuli_Chr04	47983062	TT	CC	CC	DRR	101491354	Unknown function
SNP_30690_A_47988089	NC_021163.1	Ca_Kabuli_Chr04	47988089	GG	TT	TT	URR	101491354	Unknown function
SNP_30691_A_47988136	NC_021163.1	Ca_Kabuli_Chr04	47988136	CC	GG	GG	URR	101491354	Unknown function
SNP_30692_A_47988421	NC_021163.1	Ca_Kabuli_Chr04	47988421	TT	AA	AA	URR	101491354	Unknown function
SNP_30693_A_47991452	NC_021163.1	Ca_Kabuli_Chr04	47991452	AA	GG	GG	INTERGENIC		
SNP_30694_A_47997421	NC_021163.1	Ca_Kabuli_Chr04	47997421	CC	GG	GG	INTERGENIC		
SNP_30695_A_48016249	NC_021163.1	Ca_Kabuli_Chr04	48016249	CC	TT	TT	INTERGENIC		
SNP_30697_A_48048951	NC_021163.1	Ca_Kabuli_Chr04	48048951	GG	TT	TT	INTERGENIC		
SNP_30698_A_48112961	NC_021163.1	Ca_Kabuli_Chr04	48112961	CC	TT	TT	URR	101499488	putative GTP-binding protein 6
SNP_30699_A_48114167	NC_021163.1	Ca_Kabuli_Chr04	48114167	CC	TT	TT	INTERGENIC		
SNP_30701_A_48138236	NC_021163.1	Ca_Kabuli_Chr04	48138236	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30702_A_48182857	NC_021163.1	Ca_Kabuli_Chr04	48182857	AA	GG	GG	INTERGENIC			
SNP_30704_A_48204157	NC_021163.1	Ca_Kabuli_Chr04	48204157	TT	GG	GG	INTERGENIC			
SNP_30705_A_48204519	NC_021163.1	Ca_Kabuli_Chr04	48204519	TT	AA	AA	INTERGENIC			
SNP_30706_A_48204526	NC_021163.1	Ca_Kabuli_Chr04	48204526	AA	TT	TT	INTERGENIC			
SNP_30708_A_48205784	NC_021163.1	Ca_Kabuli_Chr04	48205784	GG	CC	CC	INTERGENIC			
SNP_30709_A_48205955	NC_021163.1	Ca_Kabuli_Chr04	48205955	TT	CC	CC	INTERGENIC			
SNP_30710_A_48205966	NC_021163.1	Ca_Kabuli_Chr04	48205966	TT	GG	GG	INTERGENIC			
SNP_30711_A_48205968	NC_021163.1	Ca_Kabuli_Chr04	48205968	AA	GG	GG	INTERGENIC			
SNP_30712_A_48206205	NC_021163.1	Ca_Kabuli_Chr04	48206205	CC	TT	TT	INTERGENIC			
SNP_30713_A_48207010	NC_021163.1	Ca_Kabuli_Chr04	48207010	CC	TT	TT	INTERGENIC			
SNP_30714_A_48207370	NC_021163.1	Ca_Kabuli_Chr04	48207370	TT	GG	GG	INTERGENIC			
SNP_30716_A_48207632	NC_021163.1	Ca_Kabuli_Chr04	48207632	CC	TT	TT	INTERGENIC			
SNP_30717_A_48209446	NC_021163.1	Ca_Kabuli_Chr04	48209446	CC	GG	GG	INTERGENIC			
SNP_30718_A_48211170	NC_021163.1	Ca_Kabuli_Chr04	48211170	AA	TT	TT	INTERGENIC			
SNP_30719_A_48214666	NC_021163.1	Ca_Kabuli_Chr04	48214666	CC	TT	TT	INTERGENIC			
SNP_30721_A_48216935	NC_021163.1	Ca_Kabuli_Chr04	48216935	AA	GG	GG	INTERGENIC			
SNP_30722_A_48216966	NC_021163.1	Ca_Kabuli_Chr04	48216966	AA	CC	CC	INTERGENIC			
SNP_30723_A_48217916	NC_021163.1	Ca_Kabuli_Chr04	48217916	GG	AA	AA	INTERGENIC			
SNP_30724_A_48219525	NC_021163.1	Ca_Kabuli_Chr04	48219525	CC	TT	TT	INTERGENIC			
SNP_30725_A_48222641	NC_021163.1	Ca_Kabuli_Chr04	48222641	AA	GG	GG	INTERGENIC			
SNP_30727_A_48228299	NC_021163.1	Ca_Kabuli_Chr04	48228299	CC	TT	TT	INTERGENIC			
SNP_30728_A_48229807	NC_021163.1	Ca_Kabuli_Chr04	48229807	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30729_A_48229915	NC_021163.1	Ca_Kabuli_Chr04	48229915	TT	CC	CC	INTERGENIC		
SNP_30730_A_48229925	NC_021163.1	Ca_Kabuli_Chr04	48229925	CC	TT	TT	INTERGENIC		
SNP_30731_A_48229926	NC_021163.1	Ca_Kabuli_Chr04	48229926	TT	CC	CC	INTERGENIC		
SNP_30732_A_48229937	NC_021163.1	Ca_Kabuli_Chr04	48229937	AA	GG	GG	INTERGENIC		
SNP_30733_A_48229962	NC_021163.1	Ca_Kabuli_Chr04	48229962	CC	TT	TT	INTERGENIC		
SNP_30734_A_48229984	NC_021163.1	Ca_Kabuli_Chr04	48229984	CC	TT	TT	INTERGENIC		
SNP_30735_A_48229987	NC_021163.1	Ca_Kabuli_Chr04	48229987	AA	GG	GG	INTERGENIC		
SNP_30737_A_48231748	NC_021163.1	Ca_Kabuli_Chr04	48231748	TT	CC	CC	INTERGENIC		
SNP_30738_A_48231948	NC_021163.1	Ca_Kabuli_Chr04	48231948	CC	TT	TT	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30739_A_48232281	NC_021163.1	Ca_Kabuli_Chr04	48232281	CC	GG	GG	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30740_A_48232326	NC_021163.1	Ca_Kabuli_Chr04	48232326	CC	TT	TT	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30741_A_48232328	NC_021163.1	Ca_Kabuli_Chr04	48232328	AA	GG	GG	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30742_A_48232731	NC_021163.1	Ca_Kabuli_Chr04	48232731	GG	TT	TT	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30743_A_48232748	NC_021163.1	Ca_Kabuli_Chr04	48232748	CC	AA	AA	DRR	101492321	abscisic acid and environmental stress-inducible protein-like
SNP_30744_A_48236026	NC_021163.1	Ca_Kabuli_Chr04	48236026	TT	CC	CC	INTERGENIC		
SNP_30745_A_48240509	NC_021163.1	Ca_Kabuli_Chr04	48240509	GG	AA	AA	INTRON	101503073	protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 6, chloroplastic
SNP_30746_A_48240735	NC_021163.1	Ca_Kabuli_Chr04	48240735	AA	TT	TT	INTRON	101503073	protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 6, chloroplastic
SNP_30747_A_48240743	NC_021163.1	Ca_Kabuli_Chr04	48240743	TT	AA	AA	INTRON	101503073	protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 6, chloroplastic
SNP_30749_A_48243418	NC_021163.1	Ca_Kabuli_Chr04	48243418	AA	TT	TT	URR	101503073	protein ACCUMULATION AND REPLICATION OF CHLOROPLASTS 6, chloroplastic
SNP_30750_A_48244186	NC_021163.1	Ca_Kabuli_Chr04	48244186	TT	CC	CC	INTERGENIC		
SNP_30751_A_48244212	NC_021163.1	Ca_Kabuli_Chr04	48244212	GG	AA	AA	INTERGENIC		
SNP_30752_A_48244213	NC_021163.1	Ca_Kabuli_Chr04	48244213	TT	CC	CC	INTERGENIC		

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SNP_30753_A_48244234	NC_021163.1	Ca_Kabuli_Chr04	48244234	AA	GG	GG	INTERGENIC		
SNP_30754_A_48251530	NC_021163.1	Ca_Kabuli_Chr04	48251530	CC	TT	TT	INTERGENIC		
SNP_30755_A_48253808	NC_021163.1	Ca_Kabuli_Chr04	48253808	TT	GG	GG	URR	101503856	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_30756_A_48253823	NC_021163.1	Ca_Kabuli_Chr04	48253823	AA	GG	GG	URR	101503856	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_30757_A_48253826	NC_021163.1	Ca_Kabuli_Chr04	48253826	AA	TT	TT	URR	101503856	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_30758_A_48253934	NC_021163.1	Ca_Kabuli_Chr04	48253934	AA	TT	TT	URR	101503856	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_30759_A_48254037	NC_021163.1	Ca_Kabuli_Chr04	48254037	GG	AA	AA	URR	101503856	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_30760_A_48256428	NC_021163.1	Ca_Kabuli_Chr04	48256428	GG	CC	CC	INTRON	101504170	DNA-directed RNA polymerase II subunit RPB2
SNP_30761_A_48259853	NC_021163.1	Ca_Kabuli_Chr04	48259853	GG	TT	TT	SYNONYMOUS_CODING	101504170	DNA-directed RNA polymerase II subunit RPB2
SNP_30763_A_48261439	NC_021163.1	Ca_Kabuli_Chr04	48261439	AA	CC	CC	INTERGENIC		
SNP_30764_A_48262072	NC_021163.1	Ca_Kabuli_Chr04	48262072	TT	GG	GG	INTERGENIC		
SNP_30765_A_48262092	NC_021163.1	Ca_Kabuli_Chr04	48262092	CC	TT	TT	INTERGENIC		
SNP_30766_A_48267957	NC_021163.1	Ca_Kabuli_Chr04	48267957	TT	AA	AA	INTERGENIC		
SNP_30767_A_48269698	NC_021163.1	Ca_Kabuli_Chr04	48269698	AA	GG	GG	SYNONYMOUS_CODING	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30768_A_48269878	NC_021163.1	Ca_Kabuli_Chr04	48269878	TT	GG	GG	SYNONYMOUS_CODING	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30769_A_48270212	NC_021163.1	Ca_Kabuli_Chr04	48270212	CC	AA	AA	INTRON	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30770_A_48277240	NC_021163.1	Ca_Kabuli_Chr04	48277240	TT	AA	AA	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30771_A_48277302	NC_021163.1	Ca_Kabuli_Chr04	48277302	CC	TT	TT	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30772_A_48277582	NC_021163.1	Ca_Kabuli_Chr04	48277582	GG	AA	AA	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30773_A_48277932	NC_021163.1	Ca_Kabuli_Chr04	48277932	TT	CC	CC	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30774_A_48278246	NC_021163.1	Ca_Kabuli_Chr04	48278246	TT	CC	CC	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30776_A_48278424	NC_021163.1	Ca_Kabuli_Chr04	48278424	TT	CC	CC	URR	101504496	lysine-specific histone demethylase 1 homolog 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30777_A_48278468	NC_021163.1	Ca_Kabuli_Chr04	48278468	GG	AA	AA	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30778_A_48278473	NC_021163.1	Ca_Kabuli_Chr04	48278473	TT	CC	CC	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30779_A_48278693	NC_021163.1	Ca_Kabuli_Chr04	48278693	GG	AA	AA	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30780_A_48278743	NC_021163.1	Ca_Kabuli_Chr04	48278743	TT	CC	CC	URR	101504496	lysine-specific histone demethylase 1 homolog 3
SNP_30781_A_48297177	NC_021163.1	Ca_Kabuli_Chr04	48297177	TT	GG	GG	URR	101505879	uncharacterized LOC101505879
SNP_30782_A_48297226	NC_021163.1	Ca_Kabuli_Chr04	48297226	GG	AA	AA	URR	101505879	uncharacterized LOC101505879
SNP_30783_A_48297434	NC_021163.1	Ca_Kabuli_Chr04	48297434	AA	GG	GG	URR	101505879	uncharacterized LOC101505879
SNP_30784_A_48297439	NC_021163.1	Ca_Kabuli_Chr04	48297439	GG	AA	AA	URR	101505879	uncharacterized LOC101505879
SNP_30785_A_48298186	NC_021163.1	Ca_Kabuli_Chr04	48298186	TT	AA	AA	URR	101505879	uncharacterized LOC101505879
SNP_30786_A_48298592	NC_021163.1	Ca_Kabuli_Chr04	48298592	GG	CC	CC	URR	101505879	uncharacterized LOC101505879
SNP_30787_A_48299940	NC_021163.1	Ca_Kabuli_Chr04	48299940	GG	AA	AA	DRR	101508045	60S ribosomal protein L13a-4
SNP_30788_A_48299997	NC_021163.1	Ca_Kabuli_Chr04	48299997	CC	TT	TT	DRR	101508045	60S ribosomal protein L13a-4
SNP_30789_A_48299998	NC_021163.1	Ca_Kabuli_Chr04	48299998	CC	AA	AA	DRR	101508045	60S ribosomal protein L13a-4
SNP_30790_A_48300241	NC_021163.1	Ca_Kabuli_Chr04	48300241	GG	AA	AA	DRR	101508045	60S ribosomal protein L13a-4
SNP_30791_A_48300604	NC_021163.1	Ca_Kabuli_Chr04	48300604	CC	TT	TT	INTERGENIC		
SNP_30792_A_48300825	NC_021163.1	Ca_Kabuli_Chr04	48300825	CC	GG	GG	INTERGENIC		
SNP_30793_A_48300826	NC_021163.1	Ca_Kabuli_Chr04	48300826	TT	GG	GG	INTERGENIC		
SNP_30794_A_48308529	NC_021163.1	Ca_Kabuli_Chr04	48308529	CC	TT	TT	INTERGENIC		
SNP_30795_A_48308607	NC_021163.1	Ca_Kabuli_Chr04	48308607	TT	AA	AA	INTERGENIC		
SNP_30796_A_48308851	NC_021163.1	Ca_Kabuli_Chr04	48308851	GG	TT	TT	INTERGENIC		
SNP_30797_A_48308931	NC_021163.1	Ca_Kabuli_Chr04	48308931	CC	AA	AA	INTERGENIC		
SNP_30798_A_48310688	NC_021163.1	Ca_Kabuli_Chr04	48310688	TT	AA	AA	INTRON	101507405	protein BASIC PENTACYSSTEINE6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30799_A_48314503	NC_021163.1	Ca_Kabuli_Chr04	48314503	AA	CC	CC	URR	101507405	protein BASIC PENTACYSSTEINE6
SNP_30801_A_48314865	NC_021163.1	Ca_Kabuli_Chr04	48314865	TT	CC	CC	URR	101507405	protein BASIC PENTACYSSTEINE6
SNP_30803_A_48315535	NC_021163.1	Ca_Kabuli_Chr04	48315535	TT	AA	AA	URR	101507405	protein BASIC PENTACYSSTEINE6
SNP_30804_A_48315862	NC_021163.1	Ca_Kabuli_Chr04	48315862	AA	CC	CC	URR	101507405	protein BASIC PENTACYSSTEINE6
SNP_30807_A_48323610	NC_021163.1	Ca_Kabuli_Chr04	48323610	AA	GG	GG	DRR	101506523	cytochrome P450 71A1-like
SNP_30808_A_48325611	NC_021163.1	Ca_Kabuli_Chr04	48325611	GG	AA	AA	INTERGENIC		
SNP_30809_A_48326201	NC_021163.1	Ca_Kabuli_Chr04	48326201	CC	TT	TT	URR	101506523	cytochrome P450 71A1-like
SNP_30810_A_48326976	NC_021163.1	Ca_Kabuli_Chr04	48326976	TT	AA	AA	URR	101506523	cytochrome P450 71A1-like
SNP_30812_A_48332798	NC_021163.1	Ca_Kabuli_Chr04	48332798	CC	AA	AA	URR	101506194	60S ribosomal protein L13a-4
SNP_30813_A_48332847	NC_021163.1	Ca_Kabuli_Chr04	48332847	CC	TT	TT	URR	101506194	60S ribosomal protein L13a-4
SNP_30814_A_48336266	NC_021163.1	Ca_Kabuli_Chr04	48336266	GG	TT	TT	INTERGENIC		
SNP_30815_A_48336334	NC_021163.1	Ca_Kabuli_Chr04	48336334	GG	AA	AA	INTERGENIC		
SNP_30816_A_48336555	NC_021163.1	Ca_Kabuli_Chr04	48336555	GG	AA	AA	INTERGENIC		
SNP_30817_A_48343118	NC_021163.1	Ca_Kabuli_Chr04	48343118	GG	AA	AA	DRR	101492650	protein IQ-DOMAIN 32
SNP_30818_A_48344797	NC_021163.1	Ca_Kabuli_Chr04	48344797	CC	GG	GG	INTRON	101492650	protein IQ-DOMAIN 32
SNP_30819_A_48349706	NC_021163.1	Ca_Kabuli_Chr04	48349706	CC	TT	TT	INTERGENIC		
SNP_30820_A_48350095	NC_021163.1	Ca_Kabuli_Chr04	48350095	AA	CC	CC	URR	101492650	protein IQ-DOMAIN 32
SNP_30822_A_48352278	NC_021163.1	Ca_Kabuli_Chr04	48352278	TT	CC	CC	DRR	101508355	small RNA degrading nuclease 1-like
SNP_30823_A_48352940	NC_021163.1	Ca_Kabuli_Chr04	48352940	CC	AA	AA	INTERGENIC		
SNP_30824_A_48355916	NC_021163.1	Ca_Kabuli_Chr04	48355916	TT	CC	CC	INTRON	101508355	small RNA degrading nuclease 1-like
SNP_30825_A_48359244	NC_021163.1	Ca_Kabuli_Chr04	48359244	CC	TT	TT	DRR	101508671	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_30826_A_48365388	NC_021163.1	Ca_Kabuli_Chr04	48365388	GG	AA	AA	URR	101508671	probable pre-mRNA-splicing factor ATP-dependent RNA helicase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30827_A_48365729	NC_021163.1	Ca_Kabuli_Chr04	48365729	CC	TT	TT	URR	101508671	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_30828_A_48365965	NC_021163.1	Ca_Kabuli_Chr04	48365965	CC	AA	AA	URR	101508671	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_30830_A_48368820	NC_021163.1	Ca_Kabuli_Chr04	48368820	TT	CC	CC	INTERGENIC		
SNP_30831_A_48368890	NC_021163.1	Ca_Kabuli_Chr04	48368890	TT	GG	GG	INTERGENIC		
SNP_30832_A_48371212	NC_021163.1	Ca_Kabuli_Chr04	48371212	GG	CC	CC	URR	101508990	uncharacterized LOC101508990
SNP_30833_A_48371479	NC_021163.1	Ca_Kabuli_Chr04	48371479	TT	AA	AA	URR	101508990	uncharacterized LOC101508990
SNP_30834_A_48382603	NC_021163.1	Ca_Kabuli_Chr04	48382603	CC	TT	TT	NON_SYNONYMOUS_CODING	101509304	auxin response factor 5
SNP_30835_A_48383263	NC_021163.1	Ca_Kabuli_Chr04	48383263	GG	AA	AA	INTRON	101509304	auxin response factor 5
SNP_30836_A_48383538	NC_021163.1	Ca_Kabuli_Chr04	48383538	AA	GG	GG	INTRON	101509304	auxin response factor 5
SNP_30837_A_48384876	NC_021163.1	Ca_Kabuli_Chr04	48384876	GG	AA	AA	INTRON	101509304	auxin response factor 5
SNP_30838_A_48384886	NC_021163.1	Ca_Kabuli_Chr04	48384886	TT	GG	GG	INTRON	101509304	auxin response factor 5
SNP_30839_A_48384899	NC_021163.1	Ca_Kabuli_Chr04	48384899	TT	GG	GG	INTRON	101509304	auxin response factor 5
SNP_30840_A_48389820	NC_021163.1	Ca_Kabuli_Chr04	48389820	TT	GG	GG	INTERGENIC		
SNP_30841_A_48393244	NC_021163.1	Ca_Kabuli_Chr04	48393244	GG	AA	AA	INTERGENIC		
SNP_30842_A_48393296	NC_021163.1	Ca_Kabuli_Chr04	48393296	AA	TT	TT	INTERGENIC		
SNP_30843_A_48395108	NC_021163.1	Ca_Kabuli_Chr04	48395108	TT	CC	CC	INTERGENIC		
SNP_30844_A_48395284	NC_021163.1	Ca_Kabuli_Chr04	48395284	TT	AA	AA	INTERGENIC		
SNP_30845_A_48395286	NC_021163.1	Ca_Kabuli_Chr04	48395286	TT	CC	CC	INTERGENIC		
SNP_30846_A_48395581	NC_021163.1	Ca_Kabuli_Chr04	48395581	TT	CC	CC	INTERGENIC		
SNP_30847_A_48396190	NC_021163.1	Ca_Kabuli_Chr04	48396190	TT	CC	CC	INTERGENIC		
SNP_30848_A_48396559	NC_021163.1	Ca_Kabuli_Chr04	48396559	TT	CC	CC	INTERGENIC		
SNP_30849_A_48397363	NC_021163.1	Ca_Kabuli_Chr04	48397363	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30850_A_48398289	NC_021163.1	Ca_Kabuli_Chr04	48398289	AA	GG	GG	INTERGENIC			
SNP_30852_A_48401285	NC_021163.1	Ca_Kabuli_Chr04	48401285	GG	AA	AA	INTERGENIC			
SNP_30853_A_48401321	NC_021163.1	Ca_Kabuli_Chr04	48401321	GG	TT	TT	INTERGENIC			
SNP_30854_A_48402195	NC_021163.1	Ca_Kabuli_Chr04	48402195	TT	GG	GG	INTERGENIC			
SNP_30855_A_48402412	NC_021163.1	Ca_Kabuli_Chr04	48402412	CC	TT	TT	INTERGENIC			
SNP_30856_A_48403967	NC_021163.1	Ca_Kabuli_Chr04	48403967	TT	CC	CC	INTERGENIC			
SNP_30858_A_48414225	NC_021163.1	Ca_Kabuli_Chr04	48414225	GG	CC	CC	INTERGENIC			
SNP_30859_A_48419096	NC_021163.1	Ca_Kabuli_Chr04	48419096	TT	CC	CC	INTERGENIC			
SNP_30860_A_48419145	NC_021163.1	Ca_Kabuli_Chr04	48419145	CC	AA	AA	INTERGENIC			
SNP_30861_A_48419147	NC_021163.1	Ca_Kabuli_Chr04	48419147	GG	AA	AA	INTERGENIC			
SNP_30862_A_48427867	NC_021163.1	Ca_Kabuli_Chr04	48427867	GG	TT	TT	INTERGENIC			
SNP_30863_A_48428670	NC_021163.1	Ca_Kabuli_Chr04	48428670	CC	TT	TT	DRR	101509619	auxin-induced protein 6B-like	
SNP_30864_A_48428689	NC_021163.1	Ca_Kabuli_Chr04	48428689	TT	CC	CC	DRR	101509619	auxin-induced protein 6B-like	
SNP_30865_A_48428721	NC_021163.1	Ca_Kabuli_Chr04	48428721	GG	AA	AA	DRR	101509619	auxin-induced protein 6B-like	
SNP_30866_A_48430436	NC_021163.1	Ca_Kabuli_Chr04	48430436	GG	TT	TT	URR	101509619	auxin-induced protein 6B-like	
SNP_30867_A_48430444	NC_021163.1	Ca_Kabuli_Chr04	48430444	CC	AA	AA	URR	101509619	auxin-induced protein 6B-like	
SNP_30868_A_48430445	NC_021163.1	Ca_Kabuli_Chr04	48430445	AA	GG	GG	URR	101509619	auxin-induced protein 6B-like	
SNP_30869_A_48431510	NC_021163.1	Ca_Kabuli_Chr04	48431510	CC	TT	TT	URR	101509619	auxin-induced protein 6B-like	
SNP_30870_A_48434556	NC_021163.1	Ca_Kabuli_Chr04	48434556	AA	GG	GG	INTERGENIC			
SNP_30871_A_48434580	NC_021163.1	Ca_Kabuli_Chr04	48434580	AA	GG	GG	INTERGENIC			
SNP_30872_A_48434640	NC_021163.1	Ca_Kabuli_Chr04	48434640	TT	CC	CC	INTERGENIC			
SNP_30873_A_48435124	NC_021163.1	Ca_Kabuli_Chr04	48435124	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30875_A_48441697	NC_021163.1	Ca_Kabuli_Chr04	48441697	GG	AA	AA	INTERGENIC		
SNP_30877_A_48446045	NC_021163.1	Ca_Kabuli_Chr04	48446045	GG	AA	AA	INTERGENIC		
SNP_30878_A_48448273	NC_021163.1	Ca_Kabuli_Chr04	48448273	TT	CC	CC	INTERGENIC		
SNP_30879_A_48448774	NC_021163.1	Ca_Kabuli_Chr04	48448774	AA	GG	GG	INTERGENIC		
SNP_30880_A_48448788	NC_021163.1	Ca_Kabuli_Chr04	48448788	AA	TT	TT	INTERGENIC		
SNP_30881_A_48448797	NC_021163.1	Ca_Kabuli_Chr04	48448797	AA	GG	GG	INTERGENIC		
SNP_30882_A_48449180	NC_021163.1	Ca_Kabuli_Chr04	48449180	AA	GG	GG	INTERGENIC		
SNP_30883_A_48450159	NC_021163.1	Ca_Kabuli_Chr04	48450159	TT	CC	CC	INTERGENIC		
SNP_30884_A_48450167	NC_021163.1	Ca_Kabuli_Chr04	48450167	AA	GG	GG	INTERGENIC		
SNP_30885_A_48450367	NC_021163.1	Ca_Kabuli_Chr04	48450367	GG	AA	AA	INTERGENIC		
SNP_30886_A_48450454	NC_021163.1	Ca_Kabuli_Chr04	48450454	AA	TT	TT	INTERGENIC		
SNP_30888_A_48459089	NC_021163.1	Ca_Kabuli_Chr04	48459089	TT	GG	GG	URR	101509947	filament-like plant protein 4
SNP_30891_A_48469270	NC_021163.1	Ca_Kabuli_Chr04	48469270	TT	CC	CC	INTRON	101510269	5'-3' exoribonuclease 3
SNP_30892_A_48472897	NC_021163.1	Ca_Kabuli_Chr04	48472897	CC	TT	TT	INTERGENIC		
SNP_30893_A_48479045	NC_021163.1	Ca_Kabuli_Chr04	48479045	AA	GG	GG	INTRON	101510807	transcription factor bHLH140
SNP_30894_A_48479175	NC_021163.1	Ca_Kabuli_Chr04	48479175	CC	TT	TT	SYNONYMOUS_CODING	101510807	transcription factor bHLH140
SNP_30895_A_48479329	NC_021163.1	Ca_Kabuli_Chr04	48479329	CC	TT	TT	SYNONYMOUS_CODING	101510807	transcription factor bHLH140
SNP_30896_A_48481327	NC_021163.1	Ca_Kabuli_Chr04	48481327	AA	CC	CC	URR	101510807	transcription factor bHLH140
SNP_30897_A_48481335	NC_021163.1	Ca_Kabuli_Chr04	48481335	AA	TT	TT	URR	101510807	transcription factor bHLH140
SNP_30898_A_48481978	NC_021163.1	Ca_Kabuli_Chr04	48481978	GG	AA	AA	DRR	101511337	uncharacterized LOC101511337
SNP_30899_A_48481983	NC_021163.1	Ca_Kabuli_Chr04	48481983	AA	CC	CC	DRR	101511337	uncharacterized LOC101511337
SNP_30900_A_48482008	NC_021163.1	Ca_Kabuli_Chr04	48482008	AA	GG	GG	DRR	101511337	uncharacterized LOC101511337

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30901_A_48482028	NC_021163.1	Ca_Kabuli_Chr04	48482028	GG	AA	AA	DRR	101511337	uncharacterized LOC101511337
SNP_30902_A_48487324	NC_021163.1	Ca_Kabuli_Chr04	48487324	GG	AA	AA	URR	101511337	uncharacterized LOC101511337
SNP_30903_A_48493645	NC_021163.1	Ca_Kabuli_Chr04	48493645	CC	TT	TT	INTERGENIC		
SNP_30904_A_48493684	NC_021163.1	Ca_Kabuli_Chr04	48493684	GG	CC	CC	INTERGENIC		
SNP_30905_A_48495196	NC_021163.1	Ca_Kabuli_Chr04	48495196	AA	GG	GG	INTERGENIC		
SNP_30906_A_48495934	NC_021163.1	Ca_Kabuli_Chr04	48495934	TT	GG	GG	INTERGENIC		
SNP_30907_A_48497234	NC_021163.1	Ca_Kabuli_Chr04	48497234	AA	GG	GG	INTERGENIC		
SNP_30908_A_48497282	NC_021163.1	Ca_Kabuli_Chr04	48497282	GG	AA	AA	INTERGENIC		
SNP_30909_A_48498750	NC_021163.1	Ca_Kabuli_Chr04	48498750	TT	AA	AA	URR	101512208	HVA22-like protein i
SNP_30910_A_48499355	NC_021163.1	Ca_Kabuli_Chr04	48499355	CC	TT	TT	DRR	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30911_A_48500618	NC_021163.1	Ca_Kabuli_Chr04	48500618	CC	AA	AA	INTERGENIC		
SNP_30912_A_48500642	NC_021163.1	Ca_Kabuli_Chr04	48500642	CC	TT	TT	INTERGENIC		
SNP_30913_A_48504604	NC_021163.1	Ca_Kabuli_Chr04	48504604	AA	GG	GG	INTRON	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30914_A_48505333	NC_021163.1	Ca_Kabuli_Chr04	48505333	TT	CC	CC	INTRON	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30915_A_48506464	NC_021163.1	Ca_Kabuli_Chr04	48506464	CC	TT	TT	URR	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30916_A_48506726	NC_021163.1	Ca_Kabuli_Chr04	48506726	TT	CC	CC	URR	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30917_A_48507436	NC_021163.1	Ca_Kabuli_Chr04	48507436	CC	TT	TT	URR	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30918_A_48507786	NC_021163.1	Ca_Kabuli_Chr04	48507786	AA	TT	TT	URR	101512731	tRNA (adenine(58)-N(1))-methyltransferase non-catalytic subunit trm6
SNP_30919_A_48509356	NC_021163.1	Ca_Kabuli_Chr04	48509356	CC	GG	GG	INTERGENIC		
SNP_30920_A_48512643	NC_021163.1	Ca_Kabuli_Chr04	48512643	AA	TT	TT	INTERGENIC		
SNP_30921_A_48512927	NC_021163.1	Ca_Kabuli_Chr04	48512927	GG	TT	TT	INTERGENIC		
SNP_30922_A_48513071	NC_021163.1	Ca_Kabuli_Chr04	48513071	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30923_A_48514227	NC_021163.1	Ca_Kabuli_Chr04	48514227	TT	AA	AA	INTERGENIC		
SNP_30924_A_48514244	NC_021163.1	Ca_Kabuli_Chr04	48514244	GG	TT	TT	INTERGENIC		
SNP_30925_A_48514304	NC_021163.1	Ca_Kabuli_Chr04	48514304	CC	TT	TT	INTERGENIC		
SNP_30926_A_48514465	NC_021163.1	Ca_Kabuli_Chr04	48514465	CC	AA	AA	INTERGENIC		
SNP_30927_A_48515196	NC_021163.1	Ca_Kabuli_Chr04	48515196	CC	TT	TT	INTERGENIC		
SNP_30928_A_48515757	NC_021163.1	Ca_Kabuli_Chr04	48515757	CC	GG	GG	INTERGENIC		
SNP_30929_A_48515774	NC_021163.1	Ca_Kabuli_Chr04	48515774	CC	TT	TT	INTERGENIC		
SNP_30930_A_48519369	NC_021163.1	Ca_Kabuli_Chr04	48519369	AA	TT	TT	INTRON	101513058	uncharacterized LOC101513058
SNP_30931_A_48519371	NC_021163.1	Ca_Kabuli_Chr04	48519371	CC	GG	GG	INTRON	101513058	uncharacterized LOC101513058
SNP_30933_A_48530418	NC_021163.1	Ca_Kabuli_Chr04	48530418	AA	GG	GG	INTERGENIC		
SNP_30934_A_48530662	NC_021163.1	Ca_Kabuli_Chr04	48530662	TT	AA	AA	INTERGENIC		
SNP_30935_A_48541105	NC_021163.1	Ca_Kabuli_Chr04	48541105	GG	TT	TT	INTERGENIC		
SNP_30937_A_48546378	NC_021163.1	Ca_Kabuli_Chr04	48546378	TT	GG	GG	INTERGENIC		
SNP_30938_A_48546379	NC_021163.1	Ca_Kabuli_Chr04	48546379	AA	TT	TT	INTERGENIC		
SNP_30939_A_48546381	NC_021163.1	Ca_Kabuli_Chr04	48546381	GG	AA	AA	INTERGENIC		
SNP_30940_A_48546382	NC_021163.1	Ca_Kabuli_Chr04	48546382	GG	CC	CC	INTERGENIC		
SNP_30941_A_48546404	NC_021163.1	Ca_Kabuli_Chr04	48546404	AA	TT	TT	INTERGENIC		
SNP_30942_A_48546407	NC_021163.1	Ca_Kabuli_Chr04	48546407	GG	AA	AA	INTERGENIC		
SNP_30943_A_48546811	NC_021163.1	Ca_Kabuli_Chr04	48546811	TT	CC	CC	INTERGENIC		
SNP_30947_A_48602156	NC_021163.1	Ca_Kabuli_Chr04	48602156	CC	TT	TT	INTERGENIC		
SNP_30948_A_48603067	NC_021163.1	Ca_Kabuli_Chr04	48603067	TT	AA	AA	INTERGENIC		
SNP_30949_A_48603076	NC_021163.1	Ca_Kabuli_Chr04	48603076	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30950_A_48627122	NC_021163.1	Ca_Kabuli_Chr04	48627122	CC	TT	TT	INTERGENIC		
SNP_30951_A_48629930	NC_021163.1	Ca_Kabuli_Chr04	48629930	AA	GG	GG	INTERGENIC		
SNP_30952_A_48646239	NC_021163.1	Ca_Kabuli_Chr04	48646239	TT	CC	CC	URR	101497079	thaumatin-like protein 1b
SNP_30954_A_48658981	NC_021163.1	Ca_Kabuli_Chr04	48658981	TT	AA	AA	URR	101497414	endoplasmic homolog
SNP_30955_A_48664853	NC_021163.1	Ca_Kabuli_Chr04	48664853	GG	AA	AA	INTERGENIC		
SNP_30956_A_48665225	NC_021163.1	Ca_Kabuli_Chr04	48665225	TT	CC	CC	INTERGENIC		
SNP_30957_A_48669460	NC_021163.1	Ca_Kabuli_Chr04	48669460	CC	TT	TT	INTERGENIC		
SNP_30958_A_48669470	NC_021163.1	Ca_Kabuli_Chr04	48669470	CC	TT	TT	INTERGENIC		
SNP_30959_A_48670878	NC_021163.1	Ca_Kabuli_Chr04	48670878	CC	TT	TT	INTERGENIC		
SNP_30960_A_48675225	NC_021163.1	Ca_Kabuli_Chr04	48675225	AA	TT	TT	INTERGENIC		
SNP_30961_A_48676361	NC_021163.1	Ca_Kabuli_Chr04	48676361	AA	GG	GG	DRR	101498745	uncharacterized LOC101498745
SNP_30963_A_48683966	NC_021163.1	Ca_Kabuli_Chr04	48683966	AA	TT	TT	URR	101498745	uncharacterized LOC101498745
SNP_30964_A_48683991	NC_021163.1	Ca_Kabuli_Chr04	48683991	TT	AA	AA	URR	101498745	uncharacterized LOC101498745
SNP_30966_A_48690947	NC_021163.1	Ca_Kabuli_Chr04	48690947	GG	AA	AA	URR	101499272	synaptotagmin-2-like
SNP_30967_A_48691146	NC_021163.1	Ca_Kabuli_Chr04	48691146	CC	GG	GG	URR	101499272	synaptotagmin-2-like
SNP_30968_A_48691173	NC_021163.1	Ca_Kabuli_Chr04	48691173	GG	TT	TT	URR	101499272	synaptotagmin-2-like
SNP_30969_A_48691193	NC_021163.1	Ca_Kabuli_Chr04	48691193	TT	AA	AA	URR	101499272	synaptotagmin-2-like
SNP_30970_A_48691207	NC_021163.1	Ca_Kabuli_Chr04	48691207	TT	GG	GG	URR	101499272	synaptotagmin-2-like
SNP_30971_A_48691618	NC_021163.1	Ca_Kabuli_Chr04	48691618	GG	TT	TT	URR	101499272	synaptotagmin-2-like
SNP_30972_A_48692474	NC_021163.1	Ca_Kabuli_Chr04	48692474	TT	CC	CC	URR	101499272	synaptotagmin-2-like
SNP_30973_A_48692811	NC_021163.1	Ca_Kabuli_Chr04	48692811	CC	TT	TT	INTERGENIC		
SNP_30974_A_48692903	NC_021163.1	Ca_Kabuli_Chr04	48692903	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_30975_A_48693235	NC_021163.1	Ca_Kabuli_Chr04	48693235	CC	TT	TT	INTERGENIC			
SNP_30976_A_48693269	NC_021163.1	Ca_Kabuli_Chr04	48693269	CC	TT	TT	INTERGENIC			
SNP_30977_A_48693280	NC_021163.1	Ca_Kabuli_Chr04	48693280	CC	TT	TT	INTERGENIC			
SNP_30978_A_48693303	NC_021163.1	Ca_Kabuli_Chr04	48693303	AA	GG	GG	INTERGENIC			
SNP_30979_A_48693306	NC_021163.1	Ca_Kabuli_Chr04	48693306	AA	GG	GG	INTERGENIC			
SNP_30980_A_48693320	NC_021163.1	Ca_Kabuli_Chr04	48693320	AA	CC	CC	INTERGENIC			
SNP_30981_A_48693361	NC_021163.1	Ca_Kabuli_Chr04	48693361	TT	CC	CC	INTERGENIC			
SNP_30982_A_48693364	NC_021163.1	Ca_Kabuli_Chr04	48693364	TT	CC	CC	INTERGENIC			
SNP_30983_A_48693367	NC_021163.1	Ca_Kabuli_Chr04	48693367	AA	GG	GG	INTERGENIC			
SNP_30984_A_48693370	NC_021163.1	Ca_Kabuli_Chr04	48693370	GG	AA	AA	INTERGENIC			
SNP_30985_A_48693373	NC_021163.1	Ca_Kabuli_Chr04	48693373	GG	AA	AA	INTERGENIC			
SNP_30986_A_48693375	NC_021163.1	Ca_Kabuli_Chr04	48693375	GG	AA	AA	INTERGENIC			
SNP_30987_A_48697745	NC_021163.1	Ca_Kabuli_Chr04	48697745	AA	GG	GG	INTERGENIC			
SNP_30988_A_48697751	NC_021163.1	Ca_Kabuli_Chr04	48697751	TT	CC	CC	INTERGENIC			
SNP_30989_A_48698005	NC_021163.1	Ca_Kabuli_Chr04	48698005	AA	GG	GG	INTERGENIC			
SNP_30990_A_48698006	NC_021163.1	Ca_Kabuli_Chr04	48698006	AA	GG	GG	INTERGENIC			
SNP_30991_A_48702807	NC_021163.1	Ca_Kabuli_Chr04	48702807	CC	TT	TT	INTRON	101499791		ABC transporter B family member 13-like
SNP_30992_A_48708364	NC_021163.1	Ca_Kabuli_Chr04	48708364	GG	AA	AA	DRR	101500111		vacuolar protein sorting-associated protein 35B
SNP_30993_A_48711790	NC_021163.1	Ca_Kabuli_Chr04	48711790	TT	CC	CC	INTERGENIC			
SNP_30994_A_48720942	NC_021163.1	Ca_Kabuli_Chr04	48720942	GG	TT	TT	INTRON	101500442		DNA ligase 1-like
SNP_30995_A_48720962	NC_021163.1	Ca_Kabuli_Chr04	48720962	GG	AA	AA	INTRON	101500442		DNA ligase 1-like
SNP_30996_A_48723914	NC_021163.1	Ca_Kabuli_Chr04	48723914	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_30997_A_48725637	NC_021163.1	Ca_Kabuli_Chr04	48725637	AA	GG	GG	INTERGENIC		
SNP_30998_A_48740475	NC_021163.1	Ca_Kabuli_Chr04	48740475	AA	GG	GG	INTRON	101500754	GDSL esterase/lipase EXL1-like
SNP_30999_A_48742455	NC_021163.1	Ca_Kabuli_Chr04	48742455	TT	CC	CC	INTRON	101500754	GDSL esterase/lipase EXL1-like
SNP_31001_A_48742500	NC_021163.1	Ca_Kabuli_Chr04	48742500	GG	CC	CC	INTRON	101500754	GDSL esterase/lipase EXL1-like
SNP_31002_A_48755059	NC_021163.1	Ca_Kabuli_Chr04	48755059	AA	GG	GG	INTERGENIC		
SNP_31003_A_48758250	NC_021163.1	Ca_Kabuli_Chr04	48758250	TT	AA	AA	INTERGENIC		
SNP_31004_A_48758398	NC_021163.1	Ca_Kabuli_Chr04	48758398	AA	CC	CC	INTERGENIC		
SNP_31005_A_48758501	NC_021163.1	Ca_Kabuli_Chr04	48758501	GG	AA	AA	INTERGENIC		
SNP_31006_A_48758516	NC_021163.1	Ca_Kabuli_Chr04	48758516	GG	TT	TT	INTERGENIC		
SNP_31007_A_48758756	NC_021163.1	Ca_Kabuli_Chr04	48758756	CC	AA	AA	INTERGENIC		
SNP_31008_A_48759050	NC_021163.1	Ca_Kabuli_Chr04	48759050	TT	AA	AA	INTERGENIC		
SNP_31009_A_48760624	NC_021163.1	Ca_Kabuli_Chr04	48760624	CC	AA	AA	INTERGENIC		
SNP_31010_A_48760983	NC_021163.1	Ca_Kabuli_Chr04	48760983	AA	GG	GG	INTERGENIC		
SNP_31012_A_48767559	NC_021163.1	Ca_Kabuli_Chr04	48767559	TT	GG	GG	URR	101502021	mitochondrial outer membrane porin-like
SNP_31013_A_48767615	NC_021163.1	Ca_Kabuli_Chr04	48767615	CC	TT	TT	URR	101502021	mitochondrial outer membrane porin-like
SNP_31014_A_48772144	NC_021163.1	Ca_Kabuli_Chr04	48772144	AA	CC	CC	URR	101502350	GDSL esterase/lipase At1g73610-like
SNP_31016_A_48772729	NC_021163.1	Ca_Kabuli_Chr04	48772729	TT	CC	CC	URR	101502350	GDSL esterase/lipase At1g73610-like
SNP_31017_A_48772748	NC_021163.1	Ca_Kabuli_Chr04	48772748	AA	TT	TT	URR	101502350	GDSL esterase/lipase At1g73610-like
SNP_31018_A_48774044	NC_021163.1	Ca_Kabuli_Chr04	48774044	CC	AA	AA	INTERGENIC		
SNP_31019_A_48779803	NC_021163.1	Ca_Kabuli_Chr04	48779803	AA	GG	GG	INTERGENIC		
SNP_31021_A_48781307	NC_021163.1	Ca_Kabuli_Chr04	48781307	GG	AA	AA	INTERGENIC		
SNP_31022_A_48783030	NC_021163.1	Ca_Kabuli_Chr04	48783030	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31023_A_48784151	NC_021163.1	Ca_Kabuli_Chr04	48784151	TT	GG	GG	INTERGENIC		
SNP_31024_A_48786950	NC_021163.1	Ca_Kabuli_Chr04	48786950	CC	TT	TT	INTRON	101502657	GDSL esterase/lipase EXL1-like
SNP_31025_A_48788838	NC_021163.1	Ca_Kabuli_Chr04	48788838	GG	TT	TT	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31026_A_48788881	NC_021163.1	Ca_Kabuli_Chr04	48788881	GG	AA	AA	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31027_A_48789249	NC_021163.1	Ca_Kabuli_Chr04	48789249	TT	CC	CC	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31028_A_48789286	NC_021163.1	Ca_Kabuli_Chr04	48789286	GG	AA	AA	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31029_A_48789555	NC_021163.1	Ca_Kabuli_Chr04	48789555	TT	GG	GG	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31030_A_48789618	NC_021163.1	Ca_Kabuli_Chr04	48789618	AA	GG	GG	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31031_A_48790552	NC_021163.1	Ca_Kabuli_Chr04	48790552	CC	TT	TT	URR	101502657	GDSL esterase/lipase EXL1-like
SNP_31032_A_48790712	NC_021163.1	Ca_Kabuli_Chr04	48790712	CC	AA	AA	INTERGENIC		
SNP_31033_A_48791269	NC_021163.1	Ca_Kabuli_Chr04	48791269	GG	AA	AA	INTERGENIC		
SNP_31035_A_48794407	NC_021163.1	Ca_Kabuli_Chr04	48794407	GG	TT	TT	INTERGENIC		
SNP_31036_A_48796347	NC_021163.1	Ca_Kabuli_Chr04	48796347	GG	TT	TT	INTRON	101502971	GDSL esterase/lipase EXL1-like
SNP_31037_A_48796356	NC_021163.1	Ca_Kabuli_Chr04	48796356	AA	GG	GG	INTRON	101502971	GDSL esterase/lipase EXL1-like
SNP_31038_A_48796373	NC_021163.1	Ca_Kabuli_Chr04	48796373	TT	GG	GG	INTRON	101502971	GDSL esterase/lipase EXL1-like
SNP_31039_A_48797137	NC_021163.1	Ca_Kabuli_Chr04	48797137	TT	AA	AA	INTRON	101502971	GDSL esterase/lipase EXL1-like
SNP_31040_A_48798668	NC_021163.1	Ca_Kabuli_Chr04	48798668	GG	AA	AA	URR	101502971	GDSL esterase/lipase EXL1-like
SNP_31041_A_48798849	NC_021163.1	Ca_Kabuli_Chr04	48798849	TT	CC	CC	URR	101502971	GDSL esterase/lipase EXL1-like
SNP_31042_A_48798921	NC_021163.1	Ca_Kabuli_Chr04	48798921	CC	AA	AA	URR	101502971	GDSL esterase/lipase EXL1-like
SNP_31043_A_48799415	NC_021163.1	Ca_Kabuli_Chr04	48799415	TT	AA	AA	URR	101502971	GDSL esterase/lipase EXL1-like
SNP_31044_A_48809005	NC_021163.1	Ca_Kabuli_Chr04	48809005	TT	AA	AA	INTERGENIC		
SNP_31045_A_48809340	NC_021163.1	Ca_Kabuli_Chr04	48809340	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31047_A_48813762	NC_021163.1	Ca_Kabuli_Chr04	48813762	GG	CC	CC	INTERGENIC		
SNP_31048_A_48814637	NC_021163.1	Ca_Kabuli_Chr04	48814637	GG	AA	AA	INTERGENIC		
SNP_31049_A_48815970	NC_021163.1	Ca_Kabuli_Chr04	48815970	CC	TT	TT	INTERGENIC		
SNP_31050_A_48815973	NC_021163.1	Ca_Kabuli_Chr04	48815973	CC	AA	AA	INTERGENIC		
SNP_31051_A_48815983	NC_021163.1	Ca_Kabuli_Chr04	48815983	CC	TT	TT	INTERGENIC		
SNP_31052_A_48817637	NC_021163.1	Ca_Kabuli_Chr04	48817637	CC	TT	TT	INTERGENIC		
SNP_31053_A_48817647	NC_021163.1	Ca_Kabuli_Chr04	48817647	CC	TT	TT	INTERGENIC		
SNP_31054_A_48820386	NC_021163.1	Ca_Kabuli_Chr04	48820386	AA	CC	CC	INTERGENIC		
SNP_31055_A_48830133	NC_021163.1	Ca_Kabuli_Chr04	48830133	GG	CC	CC	URR	101503294	GDSL esterase/lipase EXL1-like
SNP_31056_A_48830427	NC_021163.1	Ca_Kabuli_Chr04	48830427	TT	AA	AA	DRR	101501066	GDSL esterase/lipase EXL3-like
SNP_31058_A_48836503	NC_021163.1	Ca_Kabuli_Chr04	48836503	CC	TT	TT	INTRON	101501066	GDSL esterase/lipase EXL3-like
SNP_31059_A_48845993	NC_021163.1	Ca_Kabuli_Chr04	48845993	CC	TT	TT	INTERGENIC		
SNP_31060_A_48846670	NC_021163.1	Ca_Kabuli_Chr04	48846670	GG	AA	AA	INTERGENIC		
SNP_31061_A_48846728	NC_021163.1	Ca_Kabuli_Chr04	48846728	TT	CC	CC	INTERGENIC		
SNP_31063_A_48847873	NC_021163.1	Ca_Kabuli_Chr04	48847873	CC	TT	TT	INTERGENIC		
SNP_31064_A_48850011	NC_021163.1	Ca_Kabuli_Chr04	48850011	CC	TT	TT	INTERGENIC		
SNP_31066_A_48850064	NC_021163.1	Ca_Kabuli_Chr04	48850064	GG	TT	TT	INTERGENIC		
SNP_31067_A_48850351	NC_021163.1	Ca_Kabuli_Chr04	48850351	AA	GG	GG	INTERGENIC		
SNP_31068_A_48879841	NC_021163.1	Ca_Kabuli_Chr04	48879841	GG	AA	AA	INTERGENIC		
SNP_31069_A_48879970	NC_021163.1	Ca_Kabuli_Chr04	48879970	AA	GG	GG	INTERGENIC		
SNP_31070_A_48880209	NC_021163.1	Ca_Kabuli_Chr04	48880209	AA	GG	GG	INTERGENIC		
SNP_31071_A_48884858	NC_021163.1	Ca_Kabuli_Chr04	48884858	GG	AA	AA	INTRON	101504065	1a-related protein 1B-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31072_A_48905989	NC_021163.1	Ca_Kabuli_Chr04	48905989	AA	GG	GG	INTERGENIC		
SNP_31073_A_48906398	NC_021163.1	Ca_Kabuli_Chr04	48906398	GG	CC	CC	INTERGENIC		
SNP_31074_A_48909082	NC_021163.1	Ca_Kabuli_Chr04	48909082	AA	GG	GG	INTERGENIC		
SNP_31075_A_48916601	NC_021163.1	Ca_Kabuli_Chr04	48916601	TT	GG	GG	INTRON	101504377	probable cinnamyl alcohol dehydrogenase 6
SNP_31076_A_48923967	NC_021163.1	Ca_Kabuli_Chr04	48923967	TT	AA	AA	INTERGENIC		
SNP_31077_A_48926406	NC_021163.1	Ca_Kabuli_Chr04	48926406	AA	GG	GG	URR	101504701	UPF0496 protein At1g20180-like
SNP_31078_A_48950341	NC_021163.1	Ca_Kabuli_Chr04	48950341	TT	CC	CC	INTERGENIC		
SNP_31079_A_48950948	NC_021163.1	Ca_Kabuli_Chr04	48950948	GG	AA	AA	INTERGENIC		
SNP_31080_A_48975030	NC_021163.1	Ca_Kabuli_Chr04	48975030	AA	GG	GG	INTERGENIC		
SNP_31081_A_48975084	NC_021163.1	Ca_Kabuli_Chr04	48975084	GG	AA	AA	INTERGENIC		
SNP_31082_A_48975423	NC_021163.1	Ca_Kabuli_Chr04	48975423	TT	GG	GG	INTERGENIC		
SNP_31083_A_49043513	NC_021163.1	Ca_Kabuli_Chr04	49043513	AA	CC	CC	INTERGENIC		
SNP_31084_A_49043515	NC_021163.1	Ca_Kabuli_Chr04	49043515	AA	TT	TT	INTERGENIC		
SNP_31088_A_49135659	NC_021163.1	Ca_Kabuli_Chr04	49135659	CC	TT	TT	INTERGENIC		
SNP_31089_A_49161217	NC_021163.1	Ca_Kabuli_Chr04	49161217	TT	CC	CC	INTERGENIC		
SNP_31090_A_49163046	NC_021163.1	Ca_Kabuli_Chr04	49163046	AA	GG	GG	INTERGENIC		
SNP_31091_A_49168775	NC_021163.1	Ca_Kabuli_Chr04	49168775	GG	TT	TT	INTRON	101515116	ATP-dependent DNA helicase DDM1-like
SNP_31092_A_44701	NC_021164.1	Ca_Kabuli_Chr05	44701	TT	CC	CC	INTRON	101503521	microtubule-associated protein futsch-like
SNP_31093_A_44722	NC_021164.1	Ca_Kabuli_Chr05	44722	AA	CC	CC	INTRON	101503521	microtubule-associated protein futsch-like
SNP_31094_A_44883	NC_021164.1	Ca_Kabuli_Chr05	44883	GG	AA	AA	SYNONYMOUS_CODING	101503521	microtubule-associated protein futsch-like
SNP_31095_A_44889	NC_021164.1	Ca_Kabuli_Chr05	44889	TT	CC	CC	SYNONYMOUS_CODING	101503521	microtubule-associated protein futsch-like
SNP_31096_A_45198	NC_021164.1	Ca_Kabuli_Chr05	45198	CC	AA	AA	NON_SYNONYMOUS_CODING	101503521	microtubule-associated protein futsch-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31097_A_50507	NC_021164.1	Ca_Kabuli_Chr05	50507	TT	AA	AA	INTERGENIC		
SNP_31098_A_56588	NC_021164.1	Ca_Kabuli_Chr05	56588	TT	CC	CC	NON_SYNONYMOUS_CODING	101503857	Unknown function
SNP_31099_A_76223	NC_021164.1	Ca_Kabuli_Chr05	76223	TT	CC	CC	URR	101504497	uncharacterized LOC101504497
SNP_31100_A_96455	NC_021164.1	Ca_Kabuli_Chr05	96455	GG	AA	AA	DRR	101504811	histone H2B.11-like
SNP_31105_A_133441	NC_021164.1	Ca_Kabuli_Chr05	133441	TT	CC	CC	URR	101491246	PCTP-like protein
SNP_31106_A_134128	NC_021164.1	Ca_Kabuli_Chr05	134128	TT	CC	CC	URR	101491246	PCTP-like protein
SNP_31107_A_134320	NC_021164.1	Ca_Kabuli_Chr05	134320	TT	CC	CC	INTERGENIC		
SNP_31109_A_134392	NC_021164.1	Ca_Kabuli_Chr05	134392	GG	AA	AA	INTERGENIC		
SNP_31110_A_134435	NC_021164.1	Ca_Kabuli_Chr05	134435	CC	TT	TT	INTERGENIC		
SNP_31111_A_134450	NC_021164.1	Ca_Kabuli_Chr05	134450	AA	GG	GG	INTERGENIC		
SNP_31112_A_134487	NC_021164.1	Ca_Kabuli_Chr05	134487	CC	AA	AA	INTERGENIC		
SNP_31113_A_134778	NC_021164.1	Ca_Kabuli_Chr05	134778	AA	GG	GG	INTERGENIC		
SNP_31114_A_135685	NC_021164.1	Ca_Kabuli_Chr05	135685	GG	AA	AA	DRR	101491768	uncharacterized LOC101491768
SNP_31115_A_146543	NC_021164.1	Ca_Kabuli_Chr05	146543	AA	GG	GG	INTERGENIC		
SNP_31119_A_159054	NC_021164.1	Ca_Kabuli_Chr05	159054	CC	TT	TT	INTERGENIC		
SNP_31120_A_159072	NC_021164.1	Ca_Kabuli_Chr05	159072	GG	AA	AA	INTERGENIC		
SNP_31121_A_160378	NC_021164.1	Ca_Kabuli_Chr05	160378	TT	CC	CC	INTERGENIC		
SNP_31122_A_162662	NC_021164.1	Ca_Kabuli_Chr05	162662	AA	TT	TT	INTERGENIC		
SNP_31124_A_164185	NC_021164.1	Ca_Kabuli_Chr05	164185	TT	GG	GG	DRR	101492434	NAC domain-containing protein 72
SNP_31125_A_164396	NC_021164.1	Ca_Kabuli_Chr05	164396	AA	TT	TT	DRR	101492434	NAC domain-containing protein 72
SNP_31126_A_167037	NC_021164.1	Ca_Kabuli_Chr05	167037	CC	TT	TT	URR	101492434	NAC domain-containing protein 72
SNP_31127_A_168522	NC_021164.1	Ca_Kabuli_Chr05	168522	AA	TT	TT	URR	101492434	NAC domain-containing protein 72

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31128_A_168529	NC_021164.1	Ca_Kabuli_Chr05	168529	GG	AA	AA	URR	101492434	NAC domain-containing protein 72
SNP_31129_A_170049	NC_021164.1	Ca_Kabuli_Chr05	170049	TT	AA	AA	INTERGENIC		
SNP_31131_A_171376	NC_021164.1	Ca_Kabuli_Chr05	171376	TT	CC	CC	INTERGENIC		
SNP_31132_A_171378	NC_021164.1	Ca_Kabuli_Chr05	171378	AA	CC	CC	INTERGENIC		
SNP_31133_A_171383	NC_021164.1	Ca_Kabuli_Chr05	171383	GG	CC	CC	INTERGENIC		
SNP_31134_A_171793	NC_021164.1	Ca_Kabuli_Chr05	171793	GG	CC	CC	INTERGENIC		
SNP_31135_A_172369	NC_021164.1	Ca_Kabuli_Chr05	172369	AA	TT	TT	INTERGENIC		
SNP_31136_A_172962	NC_021164.1	Ca_Kabuli_Chr05	172962	CC	TT	TT	DRR	101492768	uncharacterized LOC101492768
SNP_31137_A_174101	NC_021164.1	Ca_Kabuli_Chr05	174101	CC	TT	TT	NON_SYNONYMOUS_CODING	101492768	uncharacterized LOC101492768
SNP_31138_A_175240	NC_021164.1	Ca_Kabuli_Chr05	175240	CC	TT	TT	INTRON	101492768	uncharacterized LOC101492768
SNP_31139_A_178534	NC_021164.1	Ca_Kabuli_Chr05	178534	GG	AA	AA	INTRON	101492768	uncharacterized LOC101492768
SNP_31140_A_178549	NC_021164.1	Ca_Kabuli_Chr05	178549	TT	GG	GG	INTRON	101492768	uncharacterized LOC101492768
SNP_31141_A_178588	NC_021164.1	Ca_Kabuli_Chr05	178588	GG	AA	AA	INTRON	101492768	uncharacterized LOC101492768
SNP_31143_A_180581	NC_021164.1	Ca_Kabuli_Chr05	180581	CC	AA	AA	URR	101492768	uncharacterized LOC101492768
SNP_31144_A_180588	NC_021164.1	Ca_Kabuli_Chr05	180588	CC	TT	TT	URR	101492768	uncharacterized LOC101492768
SNP_31145_A_180707	NC_021164.1	Ca_Kabuli_Chr05	180707	TT	AA	AA	URR	101492768	uncharacterized LOC101492768
SNP_31146_A_180748	NC_021164.1	Ca_Kabuli_Chr05	180748	AA	TT	TT	URR	101492768	uncharacterized LOC101492768
SNP_31147_A_184483	NC_021164.1	Ca_Kabuli_Chr05	184483	AA	TT	TT	INTRON	101493102	PHD finger protein Affin1
SNP_31148_A_184615	NC_021164.1	Ca_Kabuli_Chr05	184615	GG	TT	TT	INTRON	101493102	PHD finger protein Affin1
SNP_31149_A_184851	NC_021164.1	Ca_Kabuli_Chr05	184851	AA	GG	GG	INTRON	101493102	PHD finger protein Affin1
SNP_31150_A_184940	NC_021164.1	Ca_Kabuli_Chr05	184940	AA	CC	CC	INTRON	101493102	PHD finger protein Affin1
SNP_31151_A_185682	NC_021164.1	Ca_Kabuli_Chr05	185682	CC	TT	TT	INTRON	101493102	PHD finger protein Affin1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31156_A_197940	NC_021164.1	Ca_Kabuli_Chr05	197940	CC	TT	TT	INTERGENIC		
SNP_31159_A_200962	NC_021164.1	Ca_Kabuli_Chr05	200962	TT	CC	CC	DRR	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31160_A_201053	NC_021164.1	Ca_Kabuli_Chr05	201053	AA	TT	TT	INTERGENIC		
SNP_31161_A_201926	NC_021164.1	Ca_Kabuli_Chr05	201926	TT	CC	CC	INTERGENIC		
SNP_31162_A_201943	NC_021164.1	Ca_Kabuli_Chr05	201943	AA	GG	GG	INTERGENIC		
SNP_31163_A_203100	NC_021164.1	Ca_Kabuli_Chr05	203100	AA	CC	CC	INTERGENIC		
SNP_31164_A_203499	NC_021164.1	Ca_Kabuli_Chr05	203499	CC	AA	AA	INTRON	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31165_A_203651	NC_021164.1	Ca_Kabuli_Chr05	203651	CC	AA	AA	INTRON	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31166_A_205212	NC_021164.1	Ca_Kabuli_Chr05	205212	GG	CC	CC	INTRON	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31167_A_206497	NC_021164.1	Ca_Kabuli_Chr05	206497	GG	TT	TT	DRR	101494280	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3-B
SNP_31168_A_206766	NC_021164.1	Ca_Kabuli_Chr05	206766	AA	CC	CC	DRR	101494280	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3-B
SNP_31169_A_206823	NC_021164.1	Ca_Kabuli_Chr05	206823	AA	GG	GG	DRR	101494280	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3-B
SNP_31170_A_207884	NC_021164.1	Ca_Kabuli_Chr05	207884	CC	TT	TT	URR	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31171_A_207917	NC_021164.1	Ca_Kabuli_Chr05	207917	GG	AA	AA	URR	101493955	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase, chloroplastic
SNP_31173_A_210232	NC_021164.1	Ca_Kabuli_Chr05	210232	CC	GG	GG	DRR	101505447	F-box/kelch-repeat protein At3g23880-like
SNP_31175_A_212742	NC_021164.1	Ca_Kabuli_Chr05	212742	CC	GG	GG	URR	101505447	F-box/kelch-repeat protein At3g23880-like
SNP_31176_A_212808	NC_021164.1	Ca_Kabuli_Chr05	212808	AA	CC	CC	URR	101505447	F-box/kelch-repeat protein At3g23880-like
SNP_31177_A_212828	NC_021164.1	Ca_Kabuli_Chr05	212828	AA	GG	GG	URR	101505447	F-box/kelch-repeat protein At3g23880-like
SNP_31178_A_214557	NC_021164.1	Ca_Kabuli_Chr05	214557	TT	CC	CC	INTERGENIC		
SNP_31180_A_218418	NC_021164.1	Ca_Kabuli_Chr05	218418	GG	CC	CC	INTERGENIC		
SNP_31182_A_225652	NC_021164.1	Ca_Kabuli_Chr05	225652	TT	CC	CC	URR	101494591	zinc-finger homeodomain protein 2
SNP_31183_A_225682	NC_021164.1	Ca_Kabuli_Chr05	225682	AA	GG	GG	URR	101494591	zinc-finger homeodomain protein 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31184_A_226488	NC_021164.1	Ca_Kabuli_Chr05	226488	AA	TT	TT	DRR	101494905	protein root UVB sensitive 6
SNP_31185_A_226498	NC_021164.1	Ca_Kabuli_Chr05	226498	TT	CC	CC	DRR	101494905	protein root UVB sensitive 6
SNP_31186_A_230575	NC_021164.1	Ca_Kabuli_Chr05	230575	CC	TT	TT	INTRON	101494905	protein root UVB sensitive 6
SNP_31188_A_236822	NC_021164.1	Ca_Kabuli_Chr05	236822	TT	CC	CC	URR	101494905	protein root UVB sensitive 6
SNP_31189_A_237020	NC_021164.1	Ca_Kabuli_Chr05	237020	GG	TT	TT	URR	101494905	protein root UVB sensitive 6
SNP_31190_A_237057	NC_021164.1	Ca_Kabuli_Chr05	237057	TT	CC	CC	URR	101494905	protein root UVB sensitive 6
SNP_31191_A_237489	NC_021164.1	Ca_Kabuli_Chr05	237489	TT	GG	GG	URR	101494905	protein root UVB sensitive 6
SNP_31192_A_237538	NC_021164.1	Ca_Kabuli_Chr05	237538	GG	AA	AA	URR	101494905	protein root UVB sensitive 6
SNP_31193_A_237612	NC_021164.1	Ca_Kabuli_Chr05	237612	TT	CC	CC	URR	101494905	protein root UVB sensitive 6
SNP_31194_A_237682	NC_021164.1	Ca_Kabuli_Chr05	237682	TT	CC	CC	URR	101494905	protein root UVB sensitive 6
SNP_31195_A_239784	NC_021164.1	Ca_Kabuli_Chr05	239784	GG	AA	AA	INTERGENIC		
SNP_31196_A_240070	NC_021164.1	Ca_Kabuli_Chr05	240070	GG	AA	AA	INTERGENIC		
SNP_31197_A_240094	NC_021164.1	Ca_Kabuli_Chr05	240094	AA	GG	GG	INTERGENIC		
SNP_31198_A_240098	NC_021164.1	Ca_Kabuli_Chr05	240098	TT	CC	CC	INTERGENIC		
SNP_31199_A_241154	NC_021164.1	Ca_Kabuli_Chr05	241154	CC	AA	AA	INTERGENIC		
SNP_31200_A_241159	NC_021164.1	Ca_Kabuli_Chr05	241159	TT	AA	AA	INTERGENIC		
SNP_31202_A_241209	NC_021164.1	Ca_Kabuli_Chr05	241209	GG	TT	TT	INTERGENIC		
SNP_31203_A_244004	NC_021164.1	Ca_Kabuli_Chr05	244004	AA	GG	GG	INTERGENIC		
SNP_31204_A_244034	NC_021164.1	Ca_Kabuli_Chr05	244034	TT	CC	CC	DRR	101495236	cullin-associated NEDD8-dissociated protein 1
SNP_31207_A_246466	NC_021164.1	Ca_Kabuli_Chr05	246466	TT	AA	AA	INTRON	101495236	cullin-associated NEDD8-dissociated protein 1
SNP_31208_A_247485	NC_021164.1	Ca_Kabuli_Chr05	247485	TT	GG	GG	INTRON	101495236	cullin-associated NEDD8-dissociated protein 1
SNP_31209_A_260915	NC_021164.1	Ca_Kabuli_Chr05	260915	AA	CC	CC	DRR	101495555	survival of motor neuron-related-splicing factor 30

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31211_A_275427	NC_021164.1	Ca_Kabuli_Chr05	275427	GG	AA	AA	INTRON	101495887	mitotic spindle checkpoint protein MAD1
SNP_31212_A_275428	NC_021164.1	Ca_Kabuli_Chr05	275428	AA	GG	GG	INTRON	101495887	mitotic spindle checkpoint protein MAD1
SNP_31214_A_278551	NC_021164.1	Ca_Kabuli_Chr05	278551	AA	GG	GG	URR	101495887	mitotic spindle checkpoint protein MAD1
SNP_31216_A_287671	NC_021164.1	Ca_Kabuli_Chr05	287671	AA	GG	GG	DRR	101497080	H/ACA ribonucleoprotein complex subunit 4-like
SNP_31217_A_287850	NC_021164.1	Ca_Kabuli_Chr05	287850	GG	AA	AA	DRR	101497080	H/ACA ribonucleoprotein complex subunit 4-like
SNP_31218_A_287913	NC_021164.1	Ca_Kabuli_Chr05	287913	AA	GG	GG	DRR	101497080	H/ACA ribonucleoprotein complex subunit 4-like
SNP_31219_A_289781	NC_021164.1	Ca_Kabuli_Chr05	289781	TT	AA	AA	INTERGENIC		
SNP_31220_A_289794	NC_021164.1	Ca_Kabuli_Chr05	289794	GG	AA	AA	INTERGENIC		
SNP_31221_A_290050	NC_021164.1	Ca_Kabuli_Chr05	290050	AA	TT	TT	INTERGENIC		
SNP_31222_A_290051	NC_021164.1	Ca_Kabuli_Chr05	290051	TT	AA	AA	INTERGENIC		
SNP_31223_A_290136	NC_021164.1	Ca_Kabuli_Chr05	290136	AA	GG	GG	INTERGENIC		
SNP_31224_A_290304	NC_021164.1	Ca_Kabuli_Chr05	290304	AA	CC	CC	INTERGENIC		
SNP_31225_A_290885	NC_021164.1	Ca_Kabuli_Chr05	290885	AA	TT	TT	INTERGENIC		
SNP_31226_A_291039	NC_021164.1	Ca_Kabuli_Chr05	291039	AA	TT	TT	INTERGENIC		
SNP_31227_A_291040	NC_021164.1	Ca_Kabuli_Chr05	291040	GG	CC	CC	INTERGENIC		
SNP_31229_A_291116	NC_021164.1	Ca_Kabuli_Chr05	291116	TT	CC	CC	INTERGENIC		
SNP_31230_A_291177	NC_021164.1	Ca_Kabuli_Chr05	291177	CC	TT	TT	INTERGENIC		
SNP_31231_A_291228	NC_021164.1	Ca_Kabuli_Chr05	291228	GG	AA	AA	INTERGENIC		
SNP_31232_A_291250	NC_021164.1	Ca_Kabuli_Chr05	291250	GG	AA	AA	INTERGENIC		
SNP_31233_A_291296	NC_021164.1	Ca_Kabuli_Chr05	291296	GG	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31234_A_291301	NC_021164.1	Ca_Kabuli_Chr05	291301	AA	TT	TT	URR	101505782	MATE efflux family protein 5-like
SNP_31235_A_291315	NC_021164.1	Ca_Kabuli_Chr05	291315	GG	AA	AA	URR	101505782	MATE efflux family protein 5-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31236_A_291347	NC_021164.1	Ca_Kabuli_Chr05	291347	AA	GG	GG	URR	101505782	MATE efflux family protein 5-like
SNP_31238_A_291393	NC_021164.1	Ca_Kabuli_Chr05	291393	AA	CC	CC	URR	101505782	MATE efflux family protein 5-like
SNP_31239_A_291421	NC_021164.1	Ca_Kabuli_Chr05	291421	GG	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31240_A_291439	NC_021164.1	Ca_Kabuli_Chr05	291439	GG	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31241_A_291545	NC_021164.1	Ca_Kabuli_Chr05	291545	CC	GG	GG	URR	101505782	MATE efflux family protein 5-like
SNP_31242_A_291546	NC_021164.1	Ca_Kabuli_Chr05	291546	AA	TT	TT	URR	101505782	MATE efflux family protein 5-like
SNP_31245_A_291981	NC_021164.1	Ca_Kabuli_Chr05	291981	AA	CC	CC	URR	101505782	MATE efflux family protein 5-like
SNP_31246_A_291986	NC_021164.1	Ca_Kabuli_Chr05	291986	GG	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31247_A_292029	NC_021164.1	Ca_Kabuli_Chr05	292029	TT	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31250_A_292255	NC_021164.1	Ca_Kabuli_Chr05	292255	CC	TT	TT	URR	101505782	MATE efflux family protein 5-like
SNP_31251_A_292286	NC_021164.1	Ca_Kabuli_Chr05	292286	AA	GG	GG	URR	101505782	MATE efflux family protein 5-like
SNP_31252_A_292296	NC_021164.1	Ca_Kabuli_Chr05	292296	TT	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31253_A_292460	NC_021164.1	Ca_Kabuli_Chr05	292460	AA	CC	CC	URR	101505782	MATE efflux family protein 5-like
SNP_31254_A_292517	NC_021164.1	Ca_Kabuli_Chr05	292517	CC	AA	AA	URR	101505782	MATE efflux family protein 5-like
SNP_31255_A_292525	NC_021164.1	Ca_Kabuli_Chr05	292525	GG	TT	TT	URR	101505782	MATE efflux family protein 5-like
SNP_31256_A_292652	NC_021164.1	Ca_Kabuli_Chr05	292652	CC	TT	TT	URR	101505782	MATE efflux family protein 5-like
SNP_31257_A_292653	NC_021164.1	Ca_Kabuli_Chr05	292653	AA	CC	CC	URR	101505782	MATE efflux family protein 5-like
SNP_31258_A_293197	NC_021164.1	Ca_Kabuli_Chr05	293197	TT	GG	GG	URR	101505782	MATE efflux family protein 5-like
SNP_31259_A_294815	NC_021164.1	Ca_Kabuli_Chr05	294815	CC	TT	TT	INTRON	101497080	H/ACA ribonucleoprotein complex subunit 4-like
SNP_31260_A_307609	NC_021164.1	Ca_Kabuli_Chr05	307609	TT	GG	GG	INTRON	101498746	dynammin-2A
SNP_31261_A_316526	NC_021164.1	Ca_Kabuli_Chr05	316526	GG	TT	TT	URR	101498746	dynammin-2A
SNP_31262_A_340362	NC_021164.1	Ca_Kabuli_Chr05	340362	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31263_A_347634	NC_021164.1	Ca_Kabuli_Chr05	347634	AA	TT	TT	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31264_A_347645	NC_021164.1	Ca_Kabuli_Chr05	347645	CC	TT	TT	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31265_A_347656	NC_021164.1	Ca_Kabuli_Chr05	347656	GG	AA	AA	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31266_A_347675	NC_021164.1	Ca_Kabuli_Chr05	347675	GG	AA	AA	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31267_A_348034	NC_021164.1	Ca_Kabuli_Chr05	348034	GG	AA	AA	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31269_A_362389	NC_021164.1	Ca_Kabuli_Chr05	362389	AA	GG	GG	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31270_A_362831	NC_021164.1	Ca_Kabuli_Chr05	362831	TT	AA	AA	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31271_A_362851	NC_021164.1	Ca_Kabuli_Chr05	362851	AA	CC	CC	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31272_A_362971	NC_021164.1	Ca_Kabuli_Chr05	362971	AA	GG	GG	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31273_A_372127	NC_021164.1	Ca_Kabuli_Chr05	372127	GG	AA	AA	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31274_A_372532	NC_021164.1	Ca_Kabuli_Chr05	372532	TT	CC	CC	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31275_A_378223	NC_021164.1	Ca_Kabuli_Chr05	378223	CC	TT	TT	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31277_A_396969	NC_021164.1	Ca_Kabuli_Chr05	396969	CC	TT	TT	INTRON	101500963	ATP-dependent RNA helicase DHX36
SNP_31278_A_413918	NC_021164.1	Ca_Kabuli_Chr05	413918	CC	TT	TT	URR	101500963	ATP-dependent RNA helicase DHX36
SNP_31279_A_414258	NC_021164.1	Ca_Kabuli_Chr05	414258	GG	CC	CC	URR	101500963	ATP-dependent RNA helicase DHX36
SNP_31280_A_414555	NC_021164.1	Ca_Kabuli_Chr05	414555	CC	TT	TT	URR	101500963	ATP-dependent RNA helicase DHX36
SNP_31281_A_420397	NC_021164.1	Ca_Kabuli_Chr05	420397	TT	CC	CC	INTERGENIC		
SNP_31282_A_420581	NC_021164.1	Ca_Kabuli_Chr05	420581	AA	TT	TT	INTERGENIC		
SNP_31283_A_425659	NC_021164.1	Ca_Kabuli_Chr05	425659	AA	GG	GG	INTERGENIC		
SNP_31284_A_426169	NC_021164.1	Ca_Kabuli_Chr05	426169	AA	GG	GG	DRR	101501502	uncharacterized LOC101501502
SNP_31286_A_440628	NC_021164.1	Ca_Kabuli_Chr05	440628	TT	CC	CC	URR	101501502	uncharacterized LOC101501502
SNP_31287_A_446162	NC_021164.1	Ca_Kabuli_Chr05	446162	TT	CC	CC	INTRON	101501816	ankyrin repeat protein SKIP35-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31288_A_456129	NC_021164.1	Ca_Kabuli_Chr05	456129	TT	GG	GG	INTERGENIC		
SNP_31292_A_464328	NC_021164.1	Ca_Kabuli_Chr05	464328	GG	AA	AA	URR	101502140	outer envelope pore protein 37, chloroplastic
SNP_31293_A_471157	NC_021164.1	Ca_Kabuli_Chr05	471157	AA	GG	GG	INTRON	101502458	type I inositol 1,4,5-trisphosphate 5-phosphatase 12
SNP_31294_A_480948	NC_021164.1	Ca_Kabuli_Chr05	480948	GG	AA	AA	INTERGENIC		
SNP_31295_A_482795	NC_021164.1	Ca_Kabuli_Chr05	482795	GG	AA	AA	INTERGENIC		
SNP_31296_A_483187	NC_021164.1	Ca_Kabuli_Chr05	483187	AA	GG	GG	INTERGENIC		
SNP_31297_A_483359	NC_021164.1	Ca_Kabuli_Chr05	483359	CC	TT	TT	INTERGENIC		
SNP_31298_A_485226	NC_021164.1	Ca_Kabuli_Chr05	485226	TT	AA	AA	DRR	101502972	uncharacterized LOC101502972
SNP_31299_A_487304	NC_021164.1	Ca_Kabuli_Chr05	487304	CC	TT	TT	SYNONYMOUS_CODING	id96723	Unknown function
SNP_31300_A_488291	NC_021164.1	Ca_Kabuli_Chr05	488291	GG	TT	TT	NON_SYNONYMOUS_CODING	id96723	Unknown function
SNP_31301_A_490258	NC_021164.1	Ca_Kabuli_Chr05	490258	GG	AA	AA	NON_SYNONYMOUS_CODING	id96723	Unknown function
SNP_31302_A_490263	NC_021164.1	Ca_Kabuli_Chr05	490263	AA	GG	GG	NON_SYNONYMOUS_CODING	id96723	Unknown function
SNP_31303_A_492090	NC_021164.1	Ca_Kabuli_Chr05	492090	TT	CC	CC	URR	101502972	uncharacterized LOC101502972
SNP_31304_A_492145	NC_021164.1	Ca_Kabuli_Chr05	492145	AA	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31305_A_492148	NC_021164.1	Ca_Kabuli_Chr05	492148	CC	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31306_A_492196	NC_021164.1	Ca_Kabuli_Chr05	492196	TT	AA	AA	URR	101502972	uncharacterized LOC101502972
SNP_31307_A_492197	NC_021164.1	Ca_Kabuli_Chr05	492197	TT	CC	CC	URR	101502972	uncharacterized LOC101502972
SNP_31308_A_492198	NC_021164.1	Ca_Kabuli_Chr05	492198	TT	CC	CC	URR	101502972	uncharacterized LOC101502972
SNP_31309_A_492203	NC_021164.1	Ca_Kabuli_Chr05	492203	AA	GG	GG	URR	101502972	uncharacterized LOC101502972
SNP_31310_A_492251	NC_021164.1	Ca_Kabuli_Chr05	492251	CC	AA	AA	URR	101502972	uncharacterized LOC101502972
SNP_31311_A_492252	NC_021164.1	Ca_Kabuli_Chr05	492252	AA	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31312_A_492292	NC_021164.1	Ca_Kabuli_Chr05	492292	CC	GG	GG	URR	101502972	uncharacterized LOC101502972

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31313_A_492447	NC_021164.1	Ca_Kabuli_Chr05	492447	AA	GG	GG	URR	101502972	uncharacterized LOC101502972
SNP_31314_A_492471	NC_021164.1	Ca_Kabuli_Chr05	492471	CC	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31315_A_492511	NC_021164.1	Ca_Kabuli_Chr05	492511	AA	GG	GG	URR	101502972	uncharacterized LOC101502972
SNP_31316_A_492516	NC_021164.1	Ca_Kabuli_Chr05	492516	GG	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31317_A_492583	NC_021164.1	Ca_Kabuli_Chr05	492583	AA	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31318_A_492585	NC_021164.1	Ca_Kabuli_Chr05	492585	TT	AA	AA	URR	101502972	uncharacterized LOC101502972
SNP_31319_A_492675	NC_021164.1	Ca_Kabuli_Chr05	492675	TT	GG	GG	URR	101502972	uncharacterized LOC101502972
SNP_31320_A_492679	NC_021164.1	Ca_Kabuli_Chr05	492679	TT	CC	CC	URR	101502972	uncharacterized LOC101502972
SNP_31321_A_492735	NC_021164.1	Ca_Kabuli_Chr05	492735	GG	TT	TT	URR	101502972	uncharacterized LOC101502972
SNP_31322_A_492868	NC_021164.1	Ca_Kabuli_Chr05	492868	AA	GG	GG	URR	101502972	uncharacterized LOC101502972
SNP_31323_A_492892	NC_021164.1	Ca_Kabuli_Chr05	492892	TT	AA	AA	URR	101502972	uncharacterized LOC101502972
SNP_31324_A_497203	NC_021164.1	Ca_Kabuli_Chr05	497203	TT	CC	CC	INTERGENIC		
SNP_31325_A_497210	NC_021164.1	Ca_Kabuli_Chr05	497210	TT	GG	GG	INTERGENIC		
SNP_31326_A_497215	NC_021164.1	Ca_Kabuli_Chr05	497215	CC	AA	AA	INTERGENIC		
SNP_31327_A_497479	NC_021164.1	Ca_Kabuli_Chr05	497479	TT	GG	GG	INTERGENIC		
SNP_31328_A_497512	NC_021164.1	Ca_Kabuli_Chr05	497512	AA	GG	GG	INTERGENIC		
SNP_31329_A_497519	NC_021164.1	Ca_Kabuli_Chr05	497519	AA	CC	CC	INTERGENIC		
SNP_31330_A_497552	NC_021164.1	Ca_Kabuli_Chr05	497552	AA	CC	CC	INTERGENIC		
SNP_31331_A_509313	NC_021164.1	Ca_Kabuli_Chr05	509313	AA	CC	CC	INTERGENIC		
SNP_31332_A_509359	NC_021164.1	Ca_Kabuli_Chr05	509359	CC	TT	TT	INTERGENIC		
SNP_31333_A_509362	NC_021164.1	Ca_Kabuli_Chr05	509362	TT	CC	CC	INTERGENIC		
SNP_31334_A_516844	NC_021164.1	Ca_Kabuli_Chr05	516844	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31335_A_516935	NC_021164.1	Ca_Kabuli_Chr05	516935	CC	TT	TT	INTERGENIC		
SNP_31336_A_529003	NC_021164.1	Ca_Kabuli_Chr05	529003	GG	AA	AA	INTERGENIC		
SNP_31337_A_529250	NC_021164.1	Ca_Kabuli_Chr05	529250	CC	AA	AA	INTERGENIC		
SNP_31338_A_553076	NC_021164.1	Ca_Kabuli_Chr05	553076	GG	TT	TT	INTRON	101507716	uncharacterized LOC101507716
SNP_31339_A_561604	NC_021164.1	Ca_Kabuli_Chr05	561604	TT	AA	AA	INTRON	101507716	uncharacterized LOC101507716
SNP_31340_A_613122	NC_021164.1	Ca_Kabuli_Chr05	613122	TT	AA	AA	INTERGENIC		
SNP_31341_A_622549	NC_021164.1	Ca_Kabuli_Chr05	622549	TT	CC	CC	INTERGENIC		
SNP_31343_A_622725	NC_021164.1	Ca_Kabuli_Chr05	622725	AA	GG	GG	INTERGENIC		
SNP_31344_A_622729	NC_021164.1	Ca_Kabuli_Chr05	622729	GG	AA	AA	INTERGENIC		
SNP_31345_A_622737	NC_021164.1	Ca_Kabuli_Chr05	622737	GG	AA	AA	INTERGENIC		
SNP_31346_A_622774	NC_021164.1	Ca_Kabuli_Chr05	622774	GG	TT	TT	INTERGENIC		
SNP_31347_A_622782	NC_021164.1	Ca_Kabuli_Chr05	622782	TT	CC	CC	INTERGENIC		
SNP_31348_A_622828	NC_021164.1	Ca_Kabuli_Chr05	622828	AA	GG	GG	INTERGENIC		
SNP_31349_A_622837	NC_021164.1	Ca_Kabuli_Chr05	622837	CC	GG	GG	INTERGENIC		
SNP_31350_A_622906	NC_021164.1	Ca_Kabuli_Chr05	622906	GG	TT	TT	INTERGENIC		
SNP_31351_A_625529	NC_021164.1	Ca_Kabuli_Chr05	625529	CC	AA	AA	INTERGENIC		
SNP_31352_A_643166	NC_021164.1	Ca_Kabuli_Chr05	643166	GG	AA	AA	INTERGENIC		
SNP_31353_A_643678	NC_021164.1	Ca_Kabuli_Chr05	643678	TT	AA	AA	INTERGENIC		
SNP_31354_A_643684	NC_021164.1	Ca_Kabuli_Chr05	643684	CC	TT	TT	INTERGENIC		
SNP_31355_A_643701	NC_021164.1	Ca_Kabuli_Chr05	643701	TT	CC	CC	INTERGENIC		
SNP_31356_A_655517	NC_021164.1	Ca_Kabuli_Chr05	655517	GG	AA	AA	INTERGENIC		
SNP_31357_A_655518	NC_021164.1	Ca_Kabuli_Chr05	655518	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31358_A_657118	NC_021164.1	Ca_Kabuli_Chr05	657118	AA	GG	GG	INTERGENIC			
SNP_31359_A_657353	NC_021164.1	Ca_Kabuli_Chr05	657353	CC	TT	TT	INTERGENIC			
SNP_31360_A_657380	NC_021164.1	Ca_Kabuli_Chr05	657380	GG	CC	CC	INTERGENIC			
SNP_31361_A_657390	NC_021164.1	Ca_Kabuli_Chr05	657390	TT	CC	CC	INTERGENIC			
SNP_31362_A_659724	NC_021164.1	Ca_Kabuli_Chr05	659724	AA	GG	GG	INTERGENIC			
SNP_31363_A_659733	NC_021164.1	Ca_Kabuli_Chr05	659733	AA	TT	TT	INTERGENIC			
SNP_31364_A_660006	NC_021164.1	Ca_Kabuli_Chr05	660006	GG	CC	CC	INTERGENIC			
SNP_31365_A_664544	NC_021164.1	Ca_Kabuli_Chr05	664544	TT	AA	AA	INTERGENIC			
SNP_31366_A_664702	NC_021164.1	Ca_Kabuli_Chr05	664702	TT	CC	CC	INTERGENIC			
SNP_31367_A_664946	NC_021164.1	Ca_Kabuli_Chr05	664946	TT	CC	CC	INTERGENIC			
SNP_31368_A_666157	NC_021164.1	Ca_Kabuli_Chr05	666157	AA	GG	GG	INTERGENIC			
SNP_31369_A_666369	NC_021164.1	Ca_Kabuli_Chr05	666369	AA	TT	TT	INTERGENIC			
SNP_31370_A_666468	NC_021164.1	Ca_Kabuli_Chr05	666468	AA	TT	TT	INTERGENIC			
SNP_31371_A_666500	NC_021164.1	Ca_Kabuli_Chr05	666500	CC	AA	AA	INTERGENIC			
SNP_31372_A_666502	NC_021164.1	Ca_Kabuli_Chr05	666502	GG	TT	TT	INTERGENIC			
SNP_31373_A_666524	NC_021164.1	Ca_Kabuli_Chr05	666524	TT	CC	CC	INTERGENIC			
SNP_31374_A_666539	NC_021164.1	Ca_Kabuli_Chr05	666539	AA	CC	CC	INTERGENIC			
SNP_31375_A_666879	NC_021164.1	Ca_Kabuli_Chr05	666879	GG	TT	TT	INTERGENIC			
SNP_31376_A_667266	NC_021164.1	Ca_Kabuli_Chr05	667266	TT	CC	CC	INTERGENIC			
SNP_31377_A_667292	NC_021164.1	Ca_Kabuli_Chr05	667292	AA	GG	GG	INTERGENIC			
SNP_31378_A_667304	NC_021164.1	Ca_Kabuli_Chr05	667304	GG	AA	AA	INTERGENIC			
SNP_31379_A_667307	NC_021164.1	Ca_Kabuli_Chr05	667307	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31380_A_667378	NC_021164.1	Ca_Kabuli_Chr05	667378	AA	GG	GG	INTERGENIC			
SNP_31381_A_667392	NC_021164.1	Ca_Kabuli_Chr05	667392	TT	CC	CC	INTERGENIC			
SNP_31382_A_667834	NC_021164.1	Ca_Kabuli_Chr05	667834	CC	TT	TT	INTERGENIC			
SNP_31383_A_668029	NC_021164.1	Ca_Kabuli_Chr05	668029	CC	GG	GG	INTERGENIC			
SNP_31384_A_668142	NC_021164.1	Ca_Kabuli_Chr05	668142	AA	TT	TT	INTERGENIC			
SNP_31385_A_668157	NC_021164.1	Ca_Kabuli_Chr05	668157	AA	CC	CC	INTERGENIC			
SNP_31386_A_668378	NC_021164.1	Ca_Kabuli_Chr05	668378	GG	TT	TT	INTERGENIC			
SNP_31387_A_671543	NC_021164.1	Ca_Kabuli_Chr05	671543	CC	AA	AA	INTERGENIC			
SNP_31388_A_672174	NC_021164.1	Ca_Kabuli_Chr05	672174	CC	TT	TT	INTERGENIC			
SNP_31389_A_676853	NC_021164.1	Ca_Kabuli_Chr05	676853	AA	TT	TT	INTERGENIC			
SNP_31390_A_677056	NC_021164.1	Ca_Kabuli_Chr05	677056	AA	GG	GG	INTERGENIC			
SNP_31391_A_677287	NC_021164.1	Ca_Kabuli_Chr05	677287	GG	AA	AA	INTERGENIC			
SNP_31392_A_681330	NC_021164.1	Ca_Kabuli_Chr05	681330	AA	TT	TT	INTERGENIC			
SNP_31393_A_681362	NC_021164.1	Ca_Kabuli_Chr05	681362	AA	CC	CC	INTERGENIC			
SNP_31394_A_681363	NC_021164.1	Ca_Kabuli_Chr05	681363	AA	TT	TT	INTERGENIC			
SNP_31395_A_681374	NC_021164.1	Ca_Kabuli_Chr05	681374	TT	CC	CC	INTERGENIC			
SNP_31396_A_681375	NC_021164.1	Ca_Kabuli_Chr05	681375	GG	AA	AA	INTERGENIC			
SNP_31397_A_681977	NC_021164.1	Ca_Kabuli_Chr05	681977	GG	CC	CC	INTERGENIC			
SNP_31398_A_681994	NC_021164.1	Ca_Kabuli_Chr05	681994	CC	TT	TT	INTERGENIC			
SNP_31399_A_682010	NC_021164.1	Ca_Kabuli_Chr05	682010	GG	AA	AA	INTERGENIC			
SNP_31400_A_682020	NC_021164.1	Ca_Kabuli_Chr05	682020	CC	TT	TT	INTERGENIC			
SNP_31401_A_682055	NC_021164.1	Ca_Kabuli_Chr05	682055	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31402_A_682084	NC_021164.1	Ca_Kabuli_Chr05	682084	GG	CC	CC	INTERGENIC			
SNP_31403_A_682085	NC_021164.1	Ca_Kabuli_Chr05	682085	TT	CC	CC	INTERGENIC			
SNP_31404_A_688826	NC_021164.1	Ca_Kabuli_Chr05	688826	GG	AA	AA	INTERGENIC			
SNP_31405_A_696508	NC_021164.1	Ca_Kabuli_Chr05	696508	TT	CC	CC	INTERGENIC			
SNP_31407_A_696546	NC_021164.1	Ca_Kabuli_Chr05	696546	CC	TT	TT	INTERGENIC			
SNP_31408_A_697825	NC_021164.1	Ca_Kabuli_Chr05	697825	CC	TT	TT	INTERGENIC			
SNP_31409_A_715272	NC_021164.1	Ca_Kabuli_Chr05	715272	CC	AA	AA	INTERGENIC			
SNP_31410_A_715380	NC_021164.1	Ca_Kabuli_Chr05	715380	AA	CC	CC	INTERGENIC			
SNP_31411_A_715582	NC_021164.1	Ca_Kabuli_Chr05	715582	CC	TT	TT	INTERGENIC			
SNP_31412_A_738239	NC_021164.1	Ca_Kabuli_Chr05	738239	TT	AA	AA	INTERGENIC			
SNP_31413_A_738240	NC_021164.1	Ca_Kabuli_Chr05	738240	GG	TT	TT	INTERGENIC			
SNP_31414_A_738249	NC_021164.1	Ca_Kabuli_Chr05	738249	GG	CC	CC	INTERGENIC			
SNP_31415_A_738250	NC_021164.1	Ca_Kabuli_Chr05	738250	GG	TT	TT	INTERGENIC			
SNP_31416_A_752456	NC_021164.1	Ca_Kabuli_Chr05	752456	GG	AA	AA	INTERGENIC			
SNP_31417_A_805859	NC_021164.1	Ca_Kabuli_Chr05	805859	CC	TT	TT	INTERGENIC			
SNP_31418_A_853328	NC_021164.1	Ca_Kabuli_Chr05	853328	CC	TT	TT	INTERGENIC			
SNP_31419_A_897331	NC_021164.1	Ca_Kabuli_Chr05	897331	TT	GG	GG	INTERGENIC			
SNP_31420_A_897346	NC_021164.1	Ca_Kabuli_Chr05	897346	AA	TT	TT	INTERGENIC			
SNP_31422_A_927701	NC_021164.1	Ca_Kabuli_Chr05	927701	AA	GG	GG	INTERGENIC			
SNP_31423_A_927931	NC_021164.1	Ca_Kabuli_Chr05	927931	TT	CC	CC	INTERGENIC			
SNP_31424_A_931154	NC_021164.1	Ca_Kabuli_Chr05	931154	CC	TT	TT	INTERGENIC			
SNP_31425_A_944816	NC_021164.1	Ca_Kabuli_Chr05	944816	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31426_A_1001792	NC_021164.1	Ca_Kabuli_Chr05	1001792	AA	GG	GG	INTERGENIC			
SNP_31427_A_1001803	NC_021164.1	Ca_Kabuli_Chr05	1001803	GG	AA	AA	INTERGENIC			
SNP_31428_A_1001814	NC_021164.1	Ca_Kabuli_Chr05	1001814	TT	CC	CC	INTERGENIC			
SNP_31429_A_1001817	NC_021164.1	Ca_Kabuli_Chr05	1001817	GG	AA	AA	INTERGENIC			
SNP_31430_A_1001823	NC_021164.1	Ca_Kabuli_Chr05	1001823	AA	TT	TT	INTERGENIC			
SNP_31431_A_1001839	NC_021164.1	Ca_Kabuli_Chr05	1001839	TT	CC	CC	INTERGENIC			
SNP_31432_A_1001840	NC_021164.1	Ca_Kabuli_Chr05	1001840	TT	CC	CC	INTERGENIC			
SNP_31433_A_1012077	NC_021164.1	Ca_Kabuli_Chr05	1012077	TT	CC	CC	INTERGENIC			
SNP_31434_A_1012080	NC_021164.1	Ca_Kabuli_Chr05	1012080	AA	GG	GG	INTERGENIC			
SNP_31435_A_1012338	NC_021164.1	Ca_Kabuli_Chr05	1012338	CC	TT	TT	INTERGENIC			
SNP_31436_A_1012410	NC_021164.1	Ca_Kabuli_Chr05	1012410	GG	AA	AA	INTERGENIC			
SNP_31437_A_1023143	NC_021164.1	Ca_Kabuli_Chr05	1023143	GG	AA	AA	INTERGENIC			
SNP_31438_A_1027950	NC_021164.1	Ca_Kabuli_Chr05	1027950	TT	CC	CC	INTERGENIC			
SNP_31439_A_1029591	NC_021164.1	Ca_Kabuli_Chr05	1029591	GG	AA	AA	INTERGENIC			
SNP_31440_A_1030240	NC_021164.1	Ca_Kabuli_Chr05	1030240	AA	GG	GG	INTERGENIC			
SNP_31442_A_1037037	NC_021164.1	Ca_Kabuli_Chr05	1037037	CC	TT	TT	INTERGENIC			
SNP_31443_A_1038921	NC_021164.1	Ca_Kabuli_Chr05	1038921	GG	AA	AA	INTERGENIC			
SNP_31444_A_1055297	NC_021164.1	Ca_Kabuli_Chr05	1055297	AA	GG	GG	INTERGENIC			
SNP_31445_A_1055302	NC_021164.1	Ca_Kabuli_Chr05	1055302	AA	GG	GG	INTERGENIC			
SNP_31447_A_1065536	NC_021164.1	Ca_Kabuli_Chr05	1065536	CC	TT	TT	INTERGENIC			
SNP_31448_A_1127691	NC_021164.1	Ca_Kabuli_Chr05	1127691	AA	GG	GG	INTERGENIC			
SNP_31449_A_1143674	NC_021164.1	Ca_Kabuli_Chr05	1143674	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31450_A_1159999	NC_021164.1	Ca_Kabuli_Chr05	1159999	CC	TT	TT	INTERGENIC			
SNP_31451_A_1172038	NC_021164.1	Ca_Kabuli_Chr05	1172038	TT	CC	CC	URR	101510270		uncharacterized LOC101510270
SNP_31452_A_1230375	NC_021164.1	Ca_Kabuli_Chr05	1230375	TT	CC	CC	INTERGENIC			
SNP_31453_A_1230531	NC_021164.1	Ca_Kabuli_Chr05	1230531	TT	GG	GG	INTERGENIC			
SNP_31454_A_1238027	NC_021164.1	Ca_Kabuli_Chr05	1238027	CC	TT	TT	INTERGENIC			
SNP_31455_A_1242457	NC_021164.1	Ca_Kabuli_Chr05	1242457	CC	TT	TT	INTERGENIC			
SNP_31456_A_1318557	NC_021164.1	Ca_Kabuli_Chr05	1318557	GG	AA	AA	INTERGENIC			
SNP_31457_A_1318592	NC_021164.1	Ca_Kabuli_Chr05	1318592	AA	GG	GG	INTERGENIC			
SNP_31458_A_1318593	NC_021164.1	Ca_Kabuli_Chr05	1318593	AA	TT	TT	INTERGENIC			
SNP_31459_A_1318652	NC_021164.1	Ca_Kabuli_Chr05	1318652	CC	TT	TT	INTERGENIC			
SNP_31460_A_1330752	NC_021164.1	Ca_Kabuli_Chr05	1330752	TT	CC	CC	INTERGENIC			
SNP_31461_A_1330754	NC_021164.1	Ca_Kabuli_Chr05	1330754	GG	AA	AA	INTERGENIC			
SNP_31462_A_1343471	NC_021164.1	Ca_Kabuli_Chr05	1343471	CC	GG	GG	URR	101513168		probable BOI-related E3 ubiquitin-protein ligase 3
SNP_31463_A_1346253	NC_021164.1	Ca_Kabuli_Chr05	1346253	CC	TT	TT	INTERGENIC			
SNP_31464_A_1369629	NC_021164.1	Ca_Kabuli_Chr05	1369629	AA	CC	CC	INTERGENIC			
SNP_31465_A_1372095	NC_021164.1	Ca_Kabuli_Chr05	1372095	GG	AA	AA	INTERGENIC			
SNP_31466_A_1377765	NC_021164.1	Ca_Kabuli_Chr05	1377765	AA	GG	GG	INTERGENIC			
SNP_31467_A_1378008	NC_021164.1	Ca_Kabuli_Chr05	1378008	CC	TT	TT	INTERGENIC			
SNP_31468_A_1378261	NC_021164.1	Ca_Kabuli_Chr05	1378261	GG	TT	TT	INTERGENIC			
SNP_31469_A_1381130	NC_021164.1	Ca_Kabuli_Chr05	1381130	AA	GG	GG	INTERGENIC			
SNP_31470_A_1381184	NC_021164.1	Ca_Kabuli_Chr05	1381184	AA	GG	GG	INTERGENIC			
SNP_31471_A_1381542	NC_021164.1	Ca_Kabuli_Chr05	1381542	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31472_A_1429371	NC_021164.1	Ca_Kabuli_Chr05	1429371	GG	CC	CC	INTERGENIC			
SNP_31473_A_1429380	NC_021164.1	Ca_Kabuli_Chr05	1429380	AA	CC	CC	INTERGENIC			
SNP_31474_A_1444270	NC_021164.1	Ca_Kabuli_Chr05	1444270	TT	CC	CC	INTERGENIC			
SNP_31475_A_1444273	NC_021164.1	Ca_Kabuli_Chr05	1444273	TT	AA	AA	INTERGENIC			
SNP_31476_A_1457014	NC_021164.1	Ca_Kabuli_Chr05	1457014	TT	AA	AA	INTERGENIC			
SNP_31477_A_1457054	NC_021164.1	Ca_Kabuli_Chr05	1457054	CC	AA	AA	INTERGENIC			
SNP_31478_A_1457222	NC_021164.1	Ca_Kabuli_Chr05	1457222	AA	GG	GG	INTERGENIC			
SNP_31479_A_1457460	NC_021164.1	Ca_Kabuli_Chr05	1457460	CC	TT	TT	INTERGENIC			
SNP_31480_A_1457500	NC_021164.1	Ca_Kabuli_Chr05	1457500	AA	CC	CC	INTERGENIC			
SNP_31481_A_1457506	NC_021164.1	Ca_Kabuli_Chr05	1457506	CC	TT	TT	INTERGENIC			
SNP_31482_A_1457528	NC_021164.1	Ca_Kabuli_Chr05	1457528	TT	CC	CC	INTERGENIC			
SNP_31483_A_1483052	NC_021164.1	Ca_Kabuli_Chr05	1483052	TT	AA	AA	INTERGENIC			
SNP_31484_A_1510776	NC_021164.1	Ca_Kabuli_Chr05	1510776	GG	AA	AA	INTERGENIC			
SNP_31485_A_1510784	NC_021164.1	Ca_Kabuli_Chr05	1510784	CC	TT	TT	INTERGENIC			
SNP_31486_A_1510984	NC_021164.1	Ca_Kabuli_Chr05	1510984	AA	GG	GG	INTERGENIC			
SNP_31487_A_1511055	NC_021164.1	Ca_Kabuli_Chr05	1511055	TT	GG	GG	INTERGENIC			
SNP_31488_A_1511058	NC_021164.1	Ca_Kabuli_Chr05	1511058	AA	GG	GG	INTERGENIC			
SNP_31489_A_1511105	NC_021164.1	Ca_Kabuli_Chr05	1511105	GG	TT	TT	INTERGENIC			
SNP_31490_A_1511132	NC_021164.1	Ca_Kabuli_Chr05	1511132	CC	TT	TT	INTERGENIC			
SNP_31491_A_1511146	NC_021164.1	Ca_Kabuli_Chr05	1511146	AA	CC	CC	INTERGENIC			
SNP_31492_A_1526713	NC_021164.1	Ca_Kabuli_Chr05	1526713	CC	TT	TT	INTERGENIC			
SNP_31493_A_1526732	NC_021164.1	Ca_Kabuli_Chr05	1526732	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31494_A_1526793	NC_021164.1	Ca_Kabuli_Chr05	1526793	AA	GG	GG	INTERGENIC			
SNP_31495_A_1528101	NC_021164.1	Ca_Kabuli_Chr05	1528101	AA	GG	GG	INTERGENIC			
SNP_31496_A_1531685	NC_021164.1	Ca_Kabuli_Chr05	1531685	CC	AA	AA	INTERGENIC			
SNP_31497_A_1535157	NC_021164.1	Ca_Kabuli_Chr05	1535157	TT	CC	CC	INTERGENIC			
SNP_31498_A_1535169	NC_021164.1	Ca_Kabuli_Chr05	1535169	CC	AA	AA	INTERGENIC			
SNP_31499_A_1535175	NC_021164.1	Ca_Kabuli_Chr05	1535175	TT	AA	AA	INTERGENIC			
SNP_31500_A_1535311	NC_021164.1	Ca_Kabuli_Chr05	1535311	AA	CC	CC	INTERGENIC			
SNP_31501_A_1535321	NC_021164.1	Ca_Kabuli_Chr05	1535321	GG	CC	CC	INTERGENIC			
SNP_31502_A_1535360	NC_021164.1	Ca_Kabuli_Chr05	1535360	TT	AA	AA	INTERGENIC			
SNP_31503_A_1535364	NC_021164.1	Ca_Kabuli_Chr05	1535364	CC	TT	TT	INTERGENIC			
SNP_31504_A_1535373	NC_021164.1	Ca_Kabuli_Chr05	1535373	AA	GG	GG	INTERGENIC			
SNP_31505_A_1535501	NC_021164.1	Ca_Kabuli_Chr05	1535501	TT	AA	AA	INTERGENIC			
SNP_31506_A_1541309	NC_021164.1	Ca_Kabuli_Chr05	1541309	CC	GG	GG	INTERGENIC			
SNP_31507_A_1558351	NC_021164.1	Ca_Kabuli_Chr05	1558351	AA	TT	TT	INTERGENIC			
SNP_31508_A_1571927	NC_021164.1	Ca_Kabuli_Chr05	1571927	CC	TT	TT	INTERGENIC			
SNP_31510_A_1679508	NC_021164.1	Ca_Kabuli_Chr05	1679508	AA	GG	GG	INTERGENIC			
SNP_31511_A_1679521	NC_021164.1	Ca_Kabuli_Chr05	1679521	CC	TT	TT	INTERGENIC			
SNP_31512_A_1679540	NC_021164.1	Ca_Kabuli_Chr05	1679540	GG	CC	CC	INTERGENIC			
SNP_31513_A_1679881	NC_021164.1	Ca_Kabuli_Chr05	1679881	AA	TT	TT	INTERGENIC			
SNP_31514_A_1706428	NC_021164.1	Ca_Kabuli_Chr05	1706428	GG	AA	AA	INTERGENIC			
SNP_31516_A_1709773	NC_021164.1	Ca_Kabuli_Chr05	1709773	CC	AA	AA	INTERGENIC			
SNP_31517_A_1763605	NC_021164.1	Ca_Kabuli_Chr05	1763605	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31518_A_1770300	NC_021164.1	Ca_Kabuli_Chr05	1770300	TT	CC	CC	INTERGENIC			
SNP_31519_A_1770552	NC_021164.1	Ca_Kabuli_Chr05	1770552	TT	CC	CC	INTERGENIC			
SNP_31520_A_1770556	NC_021164.1	Ca_Kabuli_Chr05	1770556	TT	AA	AA	INTERGENIC			
SNP_31522_A_1780075	NC_021164.1	Ca_Kabuli_Chr05	1780075	CC	TT	TT	INTERGENIC			
SNP_31523_A_1780096	NC_021164.1	Ca_Kabuli_Chr05	1780096	AA	GG	GG	INTERGENIC			
SNP_31524_A_1808744	NC_021164.1	Ca_Kabuli_Chr05	1808744	GG	AA	AA	INTERGENIC			
SNP_31525_A_1808785	NC_021164.1	Ca_Kabuli_Chr05	1808785	CC	TT	TT	INTERGENIC			
SNP_31526_A_1808860	NC_021164.1	Ca_Kabuli_Chr05	1808860	TT	CC	CC	INTERGENIC			
SNP_31527_A_1809094	NC_021164.1	Ca_Kabuli_Chr05	1809094	GG	TT	TT	INTERGENIC			
SNP_31528_A_1809399	NC_021164.1	Ca_Kabuli_Chr05	1809399	AA	GG	GG	INTERGENIC			
SNP_31529_A_1809839	NC_021164.1	Ca_Kabuli_Chr05	1809839	GG	TT	TT	INTERGENIC			
SNP_31530_A_1809842	NC_021164.1	Ca_Kabuli_Chr05	1809842	AA	CC	CC	INTERGENIC			
SNP_31531_A_1813576	NC_021164.1	Ca_Kabuli_Chr05	1813576	AA	GG	GG	INTERGENIC			
SNP_31532_A_1814836	NC_021164.1	Ca_Kabuli_Chr05	1814836	TT	GG	GG	INTERGENIC			
SNP_31533_A_1815812	NC_021164.1	Ca_Kabuli_Chr05	1815812	AA	GG	GG	INTERGENIC			
SNP_31534_A_1815886	NC_021164.1	Ca_Kabuli_Chr05	1815886	GG	AA	AA	INTERGENIC			
SNP_31535_A_1816062	NC_021164.1	Ca_Kabuli_Chr05	1816062	AA	TT	TT	INTERGENIC			
SNP_31536_A_1816123	NC_021164.1	Ca_Kabuli_Chr05	1816123	TT	AA	AA	INTERGENIC			
SNP_31537_A_1816273	NC_021164.1	Ca_Kabuli_Chr05	1816273	GG	TT	TT	INTERGENIC			
SNP_31538_A_1819071	NC_021164.1	Ca_Kabuli_Chr05	1819071	AA	TT	TT	INTERGENIC			
SNP_31539_A_1819315	NC_021164.1	Ca_Kabuli_Chr05	1819315	TT	CC	CC	INTERGENIC			
SNP_31540_A_1819778	NC_021164.1	Ca_Kabuli_Chr05	1819778	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31541_A_1819781	NC_021164.1	Ca_Kabuli_Chr05	1819781	GG	TT	TT	INTERGENIC			
SNP_31542_A_1821016	NC_021164.1	Ca_Kabuli_Chr05	1821016	CC	GG	GG	INTERGENIC			
SNP_31543_A_1825489	NC_021164.1	Ca_Kabuli_Chr05	1825489	AA	CC	CC	INTERGENIC			
SNP_31544_A_1829280	NC_021164.1	Ca_Kabuli_Chr05	1829280	CC	GG	GG	INTERGENIC			
SNP_31545_A_1829568	NC_021164.1	Ca_Kabuli_Chr05	1829568	GG	AA	AA	INTERGENIC			
SNP_31546_A_1829577	NC_021164.1	Ca_Kabuli_Chr05	1829577	AA	TT	TT	INTERGENIC			
SNP_31547_A_1829597	NC_021164.1	Ca_Kabuli_Chr05	1829597	TT	CC	CC	INTERGENIC			
SNP_31548_A_1829609	NC_021164.1	Ca_Kabuli_Chr05	1829609	AA	GG	GG	INTERGENIC			
SNP_31549_A_1829682	NC_021164.1	Ca_Kabuli_Chr05	1829682	TT	GG	GG	INTERGENIC			
SNP_31550_A_1836026	NC_021164.1	Ca_Kabuli_Chr05	1836026	CC	TT	TT	INTERGENIC			
SNP_31551_A_1837567	NC_021164.1	Ca_Kabuli_Chr05	1837567	CC	TT	TT	INTERGENIC			
SNP_31552_A_1837964	NC_021164.1	Ca_Kabuli_Chr05	1837964	CC	GG	GG	INTERGENIC			
SNP_31553_A_1839258	NC_021164.1	Ca_Kabuli_Chr05	1839258	AA	GG	GG	INTERGENIC			
SNP_31554_A_1839395	NC_021164.1	Ca_Kabuli_Chr05	1839395	GG	AA	AA	INTERGENIC			
SNP_31555_A_1839403	NC_021164.1	Ca_Kabuli_Chr05	1839403	TT	AA	AA	INTERGENIC			
SNP_31556_A_1839441	NC_021164.1	Ca_Kabuli_Chr05	1839441	TT	AA	AA	INTERGENIC			
SNP_31557_A_1849198	NC_021164.1	Ca_Kabuli_Chr05	1849198	AA	GG	GG	INTERGENIC			
SNP_31558_A_1849394	NC_021164.1	Ca_Kabuli_Chr05	1849394	TT	CC	CC	INTERGENIC			
SNP_31559_A_1864412	NC_021164.1	Ca_Kabuli_Chr05	1864412	CC	TT	TT	INTERGENIC			
SNP_31560_A_1876046	NC_021164.1	Ca_Kabuli_Chr05	1876046	GG	TT	TT	INTRON	101515668	Unknown function	
SNP_31561_A_1876054	NC_021164.1	Ca_Kabuli_Chr05	1876054	GG	AA	AA	INTRON	101515668	Unknown function	
SNP_31562_A_1876080	NC_021164.1	Ca_Kabuli_Chr05	1876080	AA	GG	GG	INTRON	101515668	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31563_A_1876108	NC_021164.1	Ca_Kabuli_Chr05	1876108	CC	TT	TT	INTRON	101515668	Unknown function
SNP_31565_A_1887646	NC_021164.1	Ca_Kabuli_Chr05	1887646	GG	AA	AA	INTRON	101515668	Unknown function
SNP_31567_A_1887892	NC_021164.1	Ca_Kabuli_Chr05	1887892	CC	AA	AA	INTRON	101515668	Unknown function
SNP_31568_A_1887971	NC_021164.1	Ca_Kabuli_Chr05	1887971	CC	TT	TT	INTRON	101515668	Unknown function
SNP_31569_A_1892451	NC_021164.1	Ca_Kabuli_Chr05	1892451	AA	GG	GG	INTRON	101515668	Unknown function
SNP_31570_A_1899081	NC_021164.1	Ca_Kabuli_Chr05	1899081	GG	AA	AA	SYNONYMOUS_CODING	101515668	Unknown function
SNP_31571_A_1899471	NC_021164.1	Ca_Kabuli_Chr05	1899471	AA	TT	TT	NON_SYNONYMOUS_CODING	101515668	Unknown function
SNP_31572_A_1899530	NC_021164.1	Ca_Kabuli_Chr05	1899530	TT	CC	CC	STOP_LOST	101515668	Unknown function
SNP_31573_A_1902831	NC_021164.1	Ca_Kabuli_Chr05	1902831	CC	TT	TT	NON_SYNONYMOUS_CODING	101515668	Unknown function
SNP_31574_A_1905448	NC_021164.1	Ca_Kabuli_Chr05	1905448	AA	GG	GG	INTERGENIC		
SNP_31575_A_1905821	NC_021164.1	Ca_Kabuli_Chr05	1905821	TT	GG	GG	INTERGENIC		
SNP_31576_A_1911394	NC_021164.1	Ca_Kabuli_Chr05	1911394	GG	CC	CC	INTERGENIC		
SNP_31577_A_1911672	NC_021164.1	Ca_Kabuli_Chr05	1911672	TT	AA	AA	INTERGENIC		
SNP_31578_A_1925627	NC_021164.1	Ca_Kabuli_Chr05	1925627	AA	GG	GG	INTERGENIC		
SNP_31579_A_1925675	NC_021164.1	Ca_Kabuli_Chr05	1925675	CC	TT	TT	INTERGENIC		
SNP_31580_A_1925719	NC_021164.1	Ca_Kabuli_Chr05	1925719	GG	AA	AA	INTERGENIC		
SNP_31581_A_1925741	NC_021164.1	Ca_Kabuli_Chr05	1925741	AA	CC	CC	INTERGENIC		
SNP_31582_A_1925939	NC_021164.1	Ca_Kabuli_Chr05	1925939	CC	TT	TT	INTERGENIC		
SNP_31583_A_1925976	NC_021164.1	Ca_Kabuli_Chr05	1925976	GG	CC	CC	INTERGENIC		
SNP_31584_A_1926016	NC_021164.1	Ca_Kabuli_Chr05	1926016	AA	CC	CC	INTERGENIC		
SNP_31585_A_1926041	NC_021164.1	Ca_Kabuli_Chr05	1926041	AA	GG	GG	INTERGENIC		
SNP_31586_A_1926073	NC_021164.1	Ca_Kabuli_Chr05	1926073	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31587_A_1948399	NC_021164.1	Ca_Kabuli_Chr05	1948399	GG	AA	AA	INTERGENIC			
SNP_31589_A_1973944	NC_021164.1	Ca_Kabuli_Chr05	1973944	CC	GG	GG	INTERGENIC			
SNP_31590_A_1983494	NC_021164.1	Ca_Kabuli_Chr05	1983494	TT	CC	CC	INTERGENIC			
SNP_31591_A_1986257	NC_021164.1	Ca_Kabuli_Chr05	1986257	TT	AA	AA	INTERGENIC			
SNP_31592_A_1994738	NC_021164.1	Ca_Kabuli_Chr05	1994738	CC	GG	GG	INTERGENIC			
SNP_31593_A_1994936	NC_021164.1	Ca_Kabuli_Chr05	1994936	CC	TT	TT	INTERGENIC			
SNP_31594_A_1995023	NC_021164.1	Ca_Kabuli_Chr05	1995023	AA	TT	TT	INTERGENIC			
SNP_31595_A_1995157	NC_021164.1	Ca_Kabuli_Chr05	1995157	CC	GG	GG	INTERGENIC			
SNP_31596_A_1995279	NC_021164.1	Ca_Kabuli_Chr05	1995279	TT	AA	AA	INTERGENIC			
SNP_31597_A_1995396	NC_021164.1	Ca_Kabuli_Chr05	1995396	TT	AA	AA	INTERGENIC			
SNP_31598_A_1995414	NC_021164.1	Ca_Kabuli_Chr05	1995414	CC	TT	TT	INTERGENIC			
SNP_31599_A_2000474	NC_021164.1	Ca_Kabuli_Chr05	2000474	AA	GG	GG	INTERGENIC			
SNP_31600_A_2000494	NC_021164.1	Ca_Kabuli_Chr05	2000494	AA	GG	GG	INTERGENIC			
SNP_31601_A_2000590	NC_021164.1	Ca_Kabuli_Chr05	2000590	TT	CC	CC	INTERGENIC			
SNP_31602_A_2000669	NC_021164.1	Ca_Kabuli_Chr05	2000669	CC	TT	TT	INTERGENIC			
SNP_31603_A_2000695	NC_021164.1	Ca_Kabuli_Chr05	2000695	AA	TT	TT	INTERGENIC			
SNP_31604_A_2000730	NC_021164.1	Ca_Kabuli_Chr05	2000730	AA	TT	TT	INTERGENIC			
SNP_31605_A_2006878	NC_021164.1	Ca_Kabuli_Chr05	2006878	AA	TT	TT	INTERGENIC			
SNP_31606_A_2008849	NC_021164.1	Ca_Kabuli_Chr05	2008849	TT	CC	CC	INTERGENIC			
SNP_31607_A_2008870	NC_021164.1	Ca_Kabuli_Chr05	2008870	AA	CC	CC	INTERGENIC			
SNP_31608_A_2008885	NC_021164.1	Ca_Kabuli_Chr05	2008885	TT	CC	CC	INTERGENIC			
SNP_31609_A_2008903	NC_021164.1	Ca_Kabuli_Chr05	2008903	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31610_A_2017091	NC_021164.1	Ca_Kabuli_Chr05	2017091	AA	GG	GG	INTERGENIC			
SNP_31611_A_2017230	NC_021164.1	Ca_Kabuli_Chr05	2017230	TT	AA	AA	INTERGENIC			
SNP_31612_A_2018786	NC_021164.1	Ca_Kabuli_Chr05	2018786	TT	AA	AA	INTERGENIC			
SNP_31613_A_2018814	NC_021164.1	Ca_Kabuli_Chr05	2018814	AA	GG	GG	INTERGENIC			
SNP_31614_A_2019065	NC_021164.1	Ca_Kabuli_Chr05	2019065	AA	TT	TT	INTERGENIC			
SNP_31615_A_2034538	NC_021164.1	Ca_Kabuli_Chr05	2034538	AA	GG	GG	INTERGENIC			
SNP_31616_A_2034770	NC_021164.1	Ca_Kabuli_Chr05	2034770	TT	CC	CC	INTERGENIC			
SNP_31617_A_2043286	NC_021164.1	Ca_Kabuli_Chr05	2043286	GG	AA	AA	INTERGENIC			
SNP_31618_A_2043314	NC_021164.1	Ca_Kabuli_Chr05	2043314	AA	CC	CC	INTERGENIC			
SNP_31619_A_2085566	NC_021164.1	Ca_Kabuli_Chr05	2085566	TT	GG	GG	INTERGENIC			
SNP_31620_A_2095028	NC_021164.1	Ca_Kabuli_Chr05	2095028	GG	AA	AA	INTERGENIC			
SNP_31621_A_2095029	NC_021164.1	Ca_Kabuli_Chr05	2095029	TT	AA	AA	INTERGENIC			
SNP_31622_A_2095051	NC_021164.1	Ca_Kabuli_Chr05	2095051	AA	GG	GG	INTERGENIC			
SNP_31623_A_2096641	NC_021164.1	Ca_Kabuli_Chr05	2096641	TT	CC	CC	INTERGENIC			
SNP_31624_A_2096856	NC_021164.1	Ca_Kabuli_Chr05	2096856	GG	CC	CC	INTERGENIC			
SNP_31625_A_2096863	NC_021164.1	Ca_Kabuli_Chr05	2096863	AA	GG	GG	INTERGENIC			
SNP_31626_A_2097032	NC_021164.1	Ca_Kabuli_Chr05	2097032	TT	AA	AA	INTERGENIC			
SNP_31627_A_2097357	NC_021164.1	Ca_Kabuli_Chr05	2097357	AA	CC	CC	INTERGENIC			
SNP_31628_A_2098803	NC_021164.1	Ca_Kabuli_Chr05	2098803	GG	AA	AA	INTERGENIC			
SNP_31630_A_2131461	NC_021164.1	Ca_Kabuli_Chr05	2131461	TT	CC	CC	INTERGENIC			
SNP_31631_A_2131587	NC_021164.1	Ca_Kabuli_Chr05	2131587	CC	TT	TT	INTERGENIC			
SNP_31632_A_2131647	NC_021164.1	Ca_Kabuli_Chr05	2131647	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31633_A_2131711	NC_021164.1	Ca_Kabuli_Chr05	2131711	AA	GG	GG	INTERGENIC		
SNP_31635_A_2140843	NC_021164.1	Ca_Kabuli_Chr05	2140843	TT	AA	AA	INTRON	101489091	DNA annealing helicase and endonuclease ZRANB3
SNP_31636_A_2141214	NC_021164.1	Ca_Kabuli_Chr05	2141214	GG	AA	AA	INTRON	101489091	DNA annealing helicase and endonuclease ZRANB3
SNP_31637_A_2192022	NC_021164.1	Ca_Kabuli_Chr05	2192022	CC	AA	AA	INTRON	101490290	uncharacterized LOC101490290
SNP_31638_A_2192099	NC_021164.1	Ca_Kabuli_Chr05	2192099	GG	AA	AA	INTRON	101490290	uncharacterized LOC101490290
SNP_31639_A_2192120	NC_021164.1	Ca_Kabuli_Chr05	2192120	TT	AA	AA	INTRON	101490290	uncharacterized LOC101490290
SNP_31640_A_2237012	NC_021164.1	Ca_Kabuli_Chr05	2237012	TT	AA	AA	INTERGENIC		
SNP_31641_A_2247015	NC_021164.1	Ca_Kabuli_Chr05	2247015	AA	GG	GG	INTERGENIC		
SNP_31642_A_2247024	NC_021164.1	Ca_Kabuli_Chr05	2247024	AA	GG	GG	INTERGENIC		
SNP_31643_A_2247032	NC_021164.1	Ca_Kabuli_Chr05	2247032	AA	GG	GG	INTERGENIC		
SNP_31644_A_2272415	NC_021164.1	Ca_Kabuli_Chr05	2272415	TT	AA	AA	URR	101489631	glutathione S-transferase T3-like
SNP_31645_A_2291160	NC_021164.1	Ca_Kabuli_Chr05	2291160	CC	TT	TT	INTERGENIC		
SNP_31646_A_2293943	NC_021164.1	Ca_Kabuli_Chr05	2293943	CC	GG	GG	INTERGENIC		
SNP_31647_A_2295090	NC_021164.1	Ca_Kabuli_Chr05	2295090	TT	CC	CC	INTERGENIC		
SNP_31649_A_2296517	NC_021164.1	Ca_Kabuli_Chr05	2296517	GG	AA	AA	INTERGENIC		
SNP_31650_A_2302945	NC_021164.1	Ca_Kabuli_Chr05	2302945	AA	GG	GG	INTERGENIC		
SNP_31651_A_2304566	NC_021164.1	Ca_Kabuli_Chr05	2304566	TT	CC	CC	INTERGENIC		
SNP_31652_A_2305207	NC_021164.1	Ca_Kabuli_Chr05	2305207	CC	AA	AA	INTERGENIC		
SNP_31653_A_2305434	NC_021164.1	Ca_Kabuli_Chr05	2305434	TT	CC	CC	INTERGENIC		
SNP_31654_A_2323228	NC_021164.1	Ca_Kabuli_Chr05	2323228	CC	TT	TT	INTERGENIC		
SNP_31655_A_2323342	NC_021164.1	Ca_Kabuli_Chr05	2323342	TT	CC	CC	INTERGENIC		
SNP_31657_A_2323476	NC_021164.1	Ca_Kabuli_Chr05	2323476	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31658_A_2323564	NC_021164.1	Ca_Kabuli_Chr05	2323564	GG	AA	AA	INTERGENIC			
SNP_31659_A_2323590	NC_021164.1	Ca_Kabuli_Chr05	2323590	AA	GG	GG	INTERGENIC			
SNP_31660_A_2323599	NC_021164.1	Ca_Kabuli_Chr05	2323599	AA	CC	CC	INTERGENIC			
SNP_31661_A_2323727	NC_021164.1	Ca_Kabuli_Chr05	2323727	TT	CC	CC	INTERGENIC			
SNP_31662_A_2323868	NC_021164.1	Ca_Kabuli_Chr05	2323868	CC	TT	TT	INTERGENIC			
SNP_31663_A_2323904	NC_021164.1	Ca_Kabuli_Chr05	2323904	TT	CC	CC	INTERGENIC			
SNP_31664_A_2323965	NC_021164.1	Ca_Kabuli_Chr05	2323965	GG	AA	AA	INTERGENIC			
SNP_31665_A_2324109	NC_021164.1	Ca_Kabuli_Chr05	2324109	TT	CC	CC	INTERGENIC			
SNP_31666_A_2324326	NC_021164.1	Ca_Kabuli_Chr05	2324326	AA	CC	CC	INTERGENIC			
SNP_31667_A_2324410	NC_021164.1	Ca_Kabuli_Chr05	2324410	TT	GG	GG	INTERGENIC			
SNP_31668_A_2324454	NC_021164.1	Ca_Kabuli_Chr05	2324454	AA	TT	TT	INTERGENIC			
SNP_31669_A_2324535	NC_021164.1	Ca_Kabuli_Chr05	2324535	TT	GG	GG	INTERGENIC			
SNP_31670_A_2324665	NC_021164.1	Ca_Kabuli_Chr05	2324665	AA	GG	GG	INTERGENIC			
SNP_31671_A_2324721	NC_021164.1	Ca_Kabuli_Chr05	2324721	GG	AA	AA	INTERGENIC			
SNP_31672_A_2324845	NC_021164.1	Ca_Kabuli_Chr05	2324845	TT	AA	AA	INTERGENIC			
SNP_31673_A_2324934	NC_021164.1	Ca_Kabuli_Chr05	2324934	TT	CC	CC	INTERGENIC			
SNP_31674_A_2325042	NC_021164.1	Ca_Kabuli_Chr05	2325042	TT	CC	CC	INTERGENIC			
SNP_31675_A_2325063	NC_021164.1	Ca_Kabuli_Chr05	2325063	TT	AA	AA	INTERGENIC			
SNP_31676_A_2325064	NC_021164.1	Ca_Kabuli_Chr05	2325064	AA	GG	GG	INTERGENIC			
SNP_31677_A_2325154	NC_021164.1	Ca_Kabuli_Chr05	2325154	TT	AA	AA	INTERGENIC			
SNP_31678_A_2325270	NC_021164.1	Ca_Kabuli_Chr05	2325270	AA	TT	TT	INTERGENIC			
SNP_31679_A_2325458	NC_021164.1	Ca_Kabuli_Chr05	2325458	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31680_A_2325624	NC_021164.1	Ca_Kabuli_Chr05	2325624	GG	TT	TT	INTERGENIC			
SNP_31681_A_2325629	NC_021164.1	Ca_Kabuli_Chr05	2325629	TT	CC	CC	INTERGENIC			
SNP_31682_A_2325635	NC_021164.1	Ca_Kabuli_Chr05	2325635	TT	GG	GG	INTERGENIC			
SNP_31683_A_2325928	NC_021164.1	Ca_Kabuli_Chr05	2325928	TT	CC	CC	INTERGENIC			
SNP_31684_A_2326014	NC_021164.1	Ca_Kabuli_Chr05	2326014	GG	CC	CC	INTERGENIC			
SNP_31685_A_2326349	NC_021164.1	Ca_Kabuli_Chr05	2326349	TT	AA	AA	INTERGENIC			
SNP_31686_A_2326682	NC_021164.1	Ca_Kabuli_Chr05	2326682	AA	CC	CC	INTERGENIC			
SNP_31687_A_2326793	NC_021164.1	Ca_Kabuli_Chr05	2326793	AA	CC	CC	INTERGENIC			
SNP_31688_A_2326919	NC_021164.1	Ca_Kabuli_Chr05	2326919	AA	TT	TT	INTERGENIC			
SNP_31689_A_2326968	NC_021164.1	Ca_Kabuli_Chr05	2326968	AA	GG	GG	INTERGENIC			
SNP_31690_A_2327108	NC_021164.1	Ca_Kabuli_Chr05	2327108	AA	CC	CC	INTERGENIC			
SNP_31691_A_2327170	NC_021164.1	Ca_Kabuli_Chr05	2327170	CC	AA	AA	INTERGENIC			
SNP_31692_A_2327178	NC_021164.1	Ca_Kabuli_Chr05	2327178	AA	TT	TT	INTERGENIC			
SNP_31693_A_2327210	NC_021164.1	Ca_Kabuli_Chr05	2327210	TT	GG	GG	INTERGENIC			
SNP_31694_A_2327225	NC_021164.1	Ca_Kabuli_Chr05	2327225	TT	CC	CC	INTERGENIC			
SNP_31696_A_2327313	NC_021164.1	Ca_Kabuli_Chr05	2327313	AA	GG	GG	INTERGENIC			
SNP_31697_A_2327323	NC_021164.1	Ca_Kabuli_Chr05	2327323	AA	GG	GG	INTERGENIC			
SNP_31698_A_2327360	NC_021164.1	Ca_Kabuli_Chr05	2327360	AA	GG	GG	INTERGENIC			
SNP_31699_A_2327383	NC_021164.1	Ca_Kabuli_Chr05	2327383	TT	CC	CC	INTERGENIC			
SNP_31700_A_2327390	NC_021164.1	Ca_Kabuli_Chr05	2327390	GG	TT	TT	INTERGENIC			
SNP_31701_A_2327440	NC_021164.1	Ca_Kabuli_Chr05	2327440	AA	CC	CC	INTERGENIC			
SNP_31702_A_2327472	NC_021164.1	Ca_Kabuli_Chr05	2327472	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31703_A_2327524	NC_021164.1	Ca_Kabuli_Chr05	2327524	TT	CC	CC	INTERGENIC			
SNP_31704_A_2327591	NC_021164.1	Ca_Kabuli_Chr05	2327591	TT	CC	CC	INTERGENIC			
SNP_31705_A_2327912	NC_021164.1	Ca_Kabuli_Chr05	2327912	TT	AA	AA	INTERGENIC			
SNP_31706_A_2327955	NC_021164.1	Ca_Kabuli_Chr05	2327955	CC	TT	TT	INTERGENIC			
SNP_31707_A_2327980	NC_021164.1	Ca_Kabuli_Chr05	2327980	CC	TT	TT	INTERGENIC			
SNP_31708_A_2328128	NC_021164.1	Ca_Kabuli_Chr05	2328128	TT	CC	CC	INTERGENIC			
SNP_31709_A_2328450	NC_021164.1	Ca_Kabuli_Chr05	2328450	GG	AA	AA	INTERGENIC			
SNP_31710_A_2328451	NC_021164.1	Ca_Kabuli_Chr05	2328451	GG	AA	AA	INTERGENIC			
SNP_31711_A_2328485	NC_021164.1	Ca_Kabuli_Chr05	2328485	AA	GG	GG	INTERGENIC			
SNP_31712_A_2340150	NC_021164.1	Ca_Kabuli_Chr05	2340150	GG	AA	AA	INTERGENIC			
SNP_31713_A_2340183	NC_021164.1	Ca_Kabuli_Chr05	2340183	TT	CC	CC	INTERGENIC			
SNP_31714_A_2340729	NC_021164.1	Ca_Kabuli_Chr05	2340729	TT	GG	GG	INTERGENIC			
SNP_31715_A_2355661	NC_021164.1	Ca_Kabuli_Chr05	2355661	GG	TT	TT	INTERGENIC			
SNP_31716_A_2355776	NC_021164.1	Ca_Kabuli_Chr05	2355776	AA	CC	CC	INTERGENIC			
SNP_31717_A_2375401	NC_021164.1	Ca_Kabuli_Chr05	2375401	AA	GG	GG	INTERGENIC			
SNP_31719_A_2375490	NC_021164.1	Ca_Kabuli_Chr05	2375490	TT	GG	GG	INTERGENIC			
SNP_31720_A_2375722	NC_021164.1	Ca_Kabuli_Chr05	2375722	AA	TT	TT	INTERGENIC			
SNP_31721_A_2384952	NC_021164.1	Ca_Kabuli_Chr05	2384952	TT	CC	CC	INTERGENIC			
SNP_31722_A_2402545	NC_021164.1	Ca_Kabuli_Chr05	2402545	AA	CC	CC	INTERGENIC			
SNP_31723_A_2409065	NC_021164.1	Ca_Kabuli_Chr05	2409065	GG	AA	AA	INTERGENIC			
SNP_31724_A_2420874	NC_021164.1	Ca_Kabuli_Chr05	2420874	TT	CC	CC	INTERGENIC			
SNP_31725_A_2421104	NC_021164.1	Ca_Kabuli_Chr05	2421104	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31726_A_2421141	NC_021164.1	Ca_Kabuli_Chr05	2421141	TT	CC	CC	INTERGENIC			
SNP_31727_A_2454809	NC_021164.1	Ca_Kabuli_Chr05	2454809	AA	CC	CC	INTERGENIC			
SNP_31728_A_2504088	NC_021164.1	Ca_Kabuli_Chr05	2504088	TT	AA	AA	INTERGENIC			
SNP_31729_A_2504098	NC_021164.1	Ca_Kabuli_Chr05	2504098	TT	AA	AA	INTERGENIC			
SNP_31730_A_2508755	NC_021164.1	Ca_Kabuli_Chr05	2508755	GG	AA	AA	INTERGENIC			
SNP_31731_A_2508757	NC_021164.1	Ca_Kabuli_Chr05	2508757	GG	CC	CC	INTERGENIC			
SNP_31732_A_2508771	NC_021164.1	Ca_Kabuli_Chr05	2508771	TT	CC	CC	INTERGENIC			
SNP_31733_A_2519218	NC_021164.1	Ca_Kabuli_Chr05	2519218	CC	TT	TT	INTERGENIC			
SNP_31734_A_2519587	NC_021164.1	Ca_Kabuli_Chr05	2519587	AA	GG	GG	INTERGENIC			
SNP_31735_A_2519816	NC_021164.1	Ca_Kabuli_Chr05	2519816	CC	AA	AA	INTERGENIC			
SNP_31736_A_2540108	NC_021164.1	Ca_Kabuli_Chr05	2540108	TT	GG	GG	INTERGENIC			
SNP_31737_A_2540446	NC_021164.1	Ca_Kabuli_Chr05	2540446	TT	CC	CC	INTERGENIC			
SNP_31738_A_2552288	NC_021164.1	Ca_Kabuli_Chr05	2552288	AA	CC	CC	INTERGENIC			
SNP_31739_A_2552289	NC_021164.1	Ca_Kabuli_Chr05	2552289	TT	AA	AA	INTERGENIC			
SNP_31740_A_2552300	NC_021164.1	Ca_Kabuli_Chr05	2552300	TT	GG	GG	INTERGENIC			
SNP_31741_A_2619175	NC_021164.1	Ca_Kabuli_Chr05	2619175	TT	GG	GG	URR	101497949	uncharacterized protein DDB_G0283697-like	
SNP_31742_A_2626781	NC_021164.1	Ca_Kabuli_Chr05	2626781	AA	TT	TT	INTERGENIC			
SNP_31743_A_2628499	NC_021164.1	Ca_Kabuli_Chr05	2628499	AA	TT	TT	INTERGENIC			
SNP_31744_A_2628508	NC_021164.1	Ca_Kabuli_Chr05	2628508	TT	CC	CC	INTERGENIC			
SNP_31745_A_2628538	NC_021164.1	Ca_Kabuli_Chr05	2628538	CC	TT	TT	INTERGENIC			
SNP_31746_A_2628594	NC_021164.1	Ca_Kabuli_Chr05	2628594	GG	AA	AA	INTERGENIC			
SNP_31747_A_2639069	NC_021164.1	Ca_Kabuli_Chr05	2639069	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31748_A_2641065	NC_021164.1	Ca_Kabuli_Chr05	2641065	CC	TT	TT	INTERGENIC			
SNP_31749_A_2641145	NC_021164.1	Ca_Kabuli_Chr05	2641145	CC	AA	AA	INTERGENIC			
SNP_31750_A_2658390	NC_021164.1	Ca_Kabuli_Chr05	2658390	AA	CC	CC	INTERGENIC			
SNP_31751_A_2659156	NC_021164.1	Ca_Kabuli_Chr05	2659156	TT	CC	CC	INTERGENIC			
SNP_31752_A_2663834	NC_021164.1	Ca_Kabuli_Chr05	2663834	CC	TT	TT	INTERGENIC			
SNP_31753_A_2663865	NC_021164.1	Ca_Kabuli_Chr05	2663865	AA	GG	GG	INTERGENIC			
SNP_31754_A_2664041	NC_021164.1	Ca_Kabuli_Chr05	2664041	GG	AA	AA	INTERGENIC			
SNP_31755_A_2664079	NC_021164.1	Ca_Kabuli_Chr05	2664079	TT	GG	GG	INTERGENIC			
SNP_31756_A_2664226	NC_021164.1	Ca_Kabuli_Chr05	2664226	AA	TT	TT	INTERGENIC			
SNP_31757_A_2666610	NC_021164.1	Ca_Kabuli_Chr05	2666610	TT	CC	CC	INTERGENIC			
SNP_31758_A_2666747	NC_021164.1	Ca_Kabuli_Chr05	2666747	CC	TT	TT	INTERGENIC			
SNP_31759_A_2666766	NC_021164.1	Ca_Kabuli_Chr05	2666766	TT	CC	CC	INTERGENIC			
SNP_31760_A_2669009	NC_021164.1	Ca_Kabuli_Chr05	2669009	TT	CC	CC	INTERGENIC			
SNP_31761_A_2698882	NC_021164.1	Ca_Kabuli_Chr05	2698882	TT	AA	AA	INTERGENIC			
SNP_31762_A_2698923	NC_021164.1	Ca_Kabuli_Chr05	2698923	CC	TT	TT	INTERGENIC			
SNP_31763_A_2698932	NC_021164.1	Ca_Kabuli_Chr05	2698932	TT	GG	GG	INTERGENIC			
SNP_31764_A_2698940	NC_021164.1	Ca_Kabuli_Chr05	2698940	AA	GG	GG	INTERGENIC			
SNP_31765_A_2698949	NC_021164.1	Ca_Kabuli_Chr05	2698949	GG	AA	AA	INTERGENIC			
SNP_31766_A_2698983	NC_021164.1	Ca_Kabuli_Chr05	2698983	GG	AA	AA	INTERGENIC			
SNP_31767_A_2698998	NC_021164.1	Ca_Kabuli_Chr05	2698998	AA	GG	GG	INTERGENIC			
SNP_31768_A_2740956	NC_021164.1	Ca_Kabuli_Chr05	2740956	TT	CC	CC	INTERGENIC			
SNP_31769_A_2744336	NC_021164.1	Ca_Kabuli_Chr05	2744336	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31770_A_2744383	NC_021164.1	Ca_Kabuli_Chr05	2744383	CC	TT	TT	INTERGENIC		
SNP_31771_A_2744390	NC_021164.1	Ca_Kabuli_Chr05	2744390	TT	CC	CC	INTERGENIC		
SNP_31772_A_2744431	NC_021164.1	Ca_Kabuli_Chr05	2744431	GG	AA	AA	INTERGENIC		
SNP_31773_A_2744686	NC_021164.1	Ca_Kabuli_Chr05	2744686	TT	CC	CC	INTERGENIC		
SNP_31774_A_2753644	NC_021164.1	Ca_Kabuli_Chr05	2753644	AA	GG	GG	INTERGENIC		
SNP_31775_A_2753645	NC_021164.1	Ca_Kabuli_Chr05	2753645	CC	AA	AA	INTERGENIC		
SNP_31777_A_2791773	NC_021164.1	Ca_Kabuli_Chr05	2791773	TT	AA	AA	INTRON	101503205	uncharacterized LOC101503205
SNP_31778_A_2791775	NC_021164.1	Ca_Kabuli_Chr05	2791775	AA	GG	GG	INTRON	101503205	uncharacterized LOC101503205
SNP_31779_A_2831574	NC_021164.1	Ca_Kabuli_Chr05	2831574	AA	TT	TT	INTRON	101503858	Unknown function
SNP_31780_A_2870797	NC_021164.1	Ca_Kabuli_Chr05	2870797	CC	TT	TT	URR	101496653	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase, chloroplastic
SNP_31781_A_2912543	NC_021164.1	Ca_Kabuli_Chr05	2912543	AA	GG	GG	INTERGENIC		
SNP_31782_A_2915930	NC_021164.1	Ca_Kabuli_Chr05	2915930	GG	AA	AA	INTERGENIC		
SNP_31783_A_2947217	NC_021164.1	Ca_Kabuli_Chr05	2947217	TT	GG	GG	INTRON	101496325	nudix hydrolase 3
SNP_31784_A_2947219	NC_021164.1	Ca_Kabuli_Chr05	2947219	AA	GG	GG	INTRON	101496325	nudix hydrolase 3
SNP_31785_A_3014997	NC_021164.1	Ca_Kabuli_Chr05	3014997	CC	TT	TT	URR	101495128	ABC transporter A family member 7-like
SNP_31786_A_3031448	NC_021164.1	Ca_Kabuli_Chr05	3031448	GG	AA	AA	URR	101504172	Unknown function
SNP_31788_A_3066729	NC_021164.1	Ca_Kabuli_Chr05	3066729	AA	GG	GG	INTERGENIC		
SNP_31789_A_3067090	NC_021164.1	Ca_Kabuli_Chr05	3067090	GG	AA	AA	INTERGENIC		
SNP_31790_A_3067114	NC_021164.1	Ca_Kabuli_Chr05	3067114	CC	TT	TT	INTERGENIC		
SNP_31791_A_3067141	NC_021164.1	Ca_Kabuli_Chr05	3067141	AA	GG	GG	INTERGENIC		
SNP_31792_A_3067204	NC_021164.1	Ca_Kabuli_Chr05	3067204	CC	TT	TT	INTERGENIC		
SNP_31793_A_3070498	NC_021164.1	Ca_Kabuli_Chr05	3070498	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31794_A_3070542	NC_021164.1	Ca_Kabuli_Chr05	3070542	AA	GG	GG	INTERGENIC		
SNP_31795_A_3070557	NC_021164.1	Ca_Kabuli_Chr05	3070557	GG	AA	AA	INTERGENIC		
SNP_31796_A_3083532	NC_021164.1	Ca_Kabuli_Chr05	3083532	GG	AA	AA	INTERGENIC		
SNP_31798_A_3117498	NC_021164.1	Ca_Kabuli_Chr05	3117498	AA	CC	CC	INTERGENIC		
SNP_31799_A_3117517	NC_021164.1	Ca_Kabuli_Chr05	3117517	TT	GG	GG	INTERGENIC		
SNP_31800_A_3117523	NC_021164.1	Ca_Kabuli_Chr05	3117523	TT	CC	CC	INTERGENIC		
SNP_31801_A_3117639	NC_021164.1	Ca_Kabuli_Chr05	3117639	TT	CC	CC	INTERGENIC		
SNP_31802_A_3117888	NC_021164.1	Ca_Kabuli_Chr05	3117888	TT	GG	GG	INTERGENIC		
SNP_31803_A_3117892	NC_021164.1	Ca_Kabuli_Chr05	3117892	TT	GG	GG	INTERGENIC		
SNP_31804_A_3118035	NC_021164.1	Ca_Kabuli_Chr05	3118035	CC	TT	TT	INTERGENIC		
SNP_31805_A_3118085	NC_021164.1	Ca_Kabuli_Chr05	3118085	TT	CC	CC	INTERGENIC		
SNP_31806_A_3170635	NC_021164.1	Ca_Kabuli_Chr05	3170635	TT	CC	CC	INTERGENIC		
SNP_31807_A_3219708	NC_021164.1	Ca_Kabuli_Chr05	3219708	GG	AA	AA	DRR	101492322	NAP1-related protein 2
SNP_31808_A_3252523	NC_021164.1	Ca_Kabuli_Chr05	3252523	TT	CC	CC	INTERGENIC		
SNP_31809_A_3252925	NC_021164.1	Ca_Kabuli_Chr05	3252925	GG	TT	TT	INTERGENIC		
SNP_31810_A_3270090	NC_021164.1	Ca_Kabuli_Chr05	3270090	TT	CC	CC	INTERGENIC		
SNP_31811_A_3279744	NC_021164.1	Ca_Kabuli_Chr05	3279744	TT	CC	CC	INTERGENIC		
SNP_31812_A_3285575	NC_021164.1	Ca_Kabuli_Chr05	3285575	AA	GG	GG	INTERGENIC		
SNP_31813_A_3303597	NC_021164.1	Ca_Kabuli_Chr05	3303597	TT	CC	CC	INTERGENIC		
SNP_31814_A_3323328	NC_021164.1	Ca_Kabuli_Chr05	3323328	CC	TT	TT	INTERGENIC		
SNP_31818_A_3353139	NC_021164.1	Ca_Kabuli_Chr05	3353139	TT	CC	CC	INTERGENIC		
SNP_31819_A_3353375	NC_021164.1	Ca_Kabuli_Chr05	3353375	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31820_A_3413079	NC_021164.1	Ca_Kabuli_Chr05	3413079	AA	CC	CC	INTERGENIC			
SNP_31821_A_3415302	NC_021164.1	Ca_Kabuli_Chr05	3415302	CC	TT	TT	INTERGENIC			
SNP_31822_A_3445320	NC_021164.1	Ca_Kabuli_Chr05	3445320	TT	AA	AA	INTERGENIC			
SNP_31823_A_3472814	NC_021164.1	Ca_Kabuli_Chr05	3472814	GG	AA	AA	INTERGENIC			
SNP_31824_A_3570468	NC_021164.1	Ca_Kabuli_Chr05	3570468	AA	GG	GG	INTERGENIC			
SNP_31825_A_3570602	NC_021164.1	Ca_Kabuli_Chr05	3570602	GG	AA	AA	INTERGENIC			
SNP_31826_A_3570619	NC_021164.1	Ca_Kabuli_Chr05	3570619	CC	TT	TT	INTERGENIC			
SNP_31827_A_3570654	NC_021164.1	Ca_Kabuli_Chr05	3570654	TT	AA	AA	INTERGENIC			
SNP_31828_A_3570676	NC_021164.1	Ca_Kabuli_Chr05	3570676	TT	GG	GG	INTERGENIC			
SNP_31829_A_3570746	NC_021164.1	Ca_Kabuli_Chr05	3570746	GG	AA	AA	INTERGENIC			
SNP_31830_A_3570788	NC_021164.1	Ca_Kabuli_Chr05	3570788	AA	TT	TT	INTERGENIC			
SNP_31831_A_3570796	NC_021164.1	Ca_Kabuli_Chr05	3570796	AA	TT	TT	INTERGENIC			
SNP_31833_A_3577759	NC_021164.1	Ca_Kabuli_Chr05	3577759	TT	CC	CC	INTERGENIC			
SNP_31834_A_3577762	NC_021164.1	Ca_Kabuli_Chr05	3577762	AA	GG	GG	INTERGENIC			
SNP_31835_A_3577837	NC_021164.1	Ca_Kabuli_Chr05	3577837	AA	CC	CC	INTERGENIC			
SNP_31836_A_3578200	NC_021164.1	Ca_Kabuli_Chr05	3578200	AA	GG	GG	INTERGENIC			
SNP_31837_A_3578205	NC_021164.1	Ca_Kabuli_Chr05	3578205	AA	CC	CC	INTERGENIC			
SNP_31838_A_3578208	NC_021164.1	Ca_Kabuli_Chr05	3578208	CC	AA	AA	INTERGENIC			
SNP_31839_A_3589828	NC_021164.1	Ca_Kabuli_Chr05	3589828	CC	TT	TT	INTRON	101507084	Unknown function	
SNP_31840_A_3589834	NC_021164.1	Ca_Kabuli_Chr05	3589834	TT	CC	CC	INTRON	101507084	Unknown function	
SNP_31841_A_3594387	NC_021164.1	Ca_Kabuli_Chr05	3594387	AA	GG	GG	INTRON	101507084	Unknown function	
SNP_31842_A_3610816	NC_021164.1	Ca_Kabuli_Chr05	3610816	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31843_A_3639262	NC_021164.1	Ca_Kabuli_Chr05	3639262	TT	CC	CC	INTERGENIC			
SNP_31844_A_3639823	NC_021164.1	Ca_Kabuli_Chr05	3639823	AA	GG	GG	INTERGENIC			
SNP_31845_A_3639824	NC_021164.1	Ca_Kabuli_Chr05	3639824	TT	CC	CC	INTERGENIC			
SNP_31846_A_3639847	NC_021164.1	Ca_Kabuli_Chr05	3639847	TT	CC	CC	INTERGENIC			
SNP_31847_A_3640677	NC_021164.1	Ca_Kabuli_Chr05	3640677	AA	CC	CC	INTERGENIC			
SNP_31848_A_3668838	NC_021164.1	Ca_Kabuli_Chr05	3668838	CC	TT	TT	INTERGENIC			
SNP_31849_A_3668840	NC_021164.1	Ca_Kabuli_Chr05	3668840	AA	GG	GG	INTERGENIC			
SNP_31850_A_3668850	NC_021164.1	Ca_Kabuli_Chr05	3668850	CC	AA	AA	INTERGENIC			
SNP_31852_A_3742124	NC_021164.1	Ca_Kabuli_Chr05	3742124	GG	AA	AA	INTERGENIC			
SNP_31853_A_3742626	NC_021164.1	Ca_Kabuli_Chr05	3742626	AA	GG	GG	INTERGENIC			
SNP_31855_A_3742702	NC_021164.1	Ca_Kabuli_Chr05	3742702	TT	AA	AA	INTERGENIC			
SNP_31856_A_3742766	NC_021164.1	Ca_Kabuli_Chr05	3742766	AA	GG	GG	INTERGENIC			
SNP_31857_A_3781331	NC_021164.1	Ca_Kabuli_Chr05	3781331	GG	AA	AA	INTERGENIC			
SNP_31858_A_3796043	NC_021164.1	Ca_Kabuli_Chr05	3796043	AA	GG	GG	INTERGENIC			
SNP_31859_A_3798618	NC_021164.1	Ca_Kabuli_Chr05	3798618	AA	GG	GG	INTERGENIC			
SNP_31860_A_3798982	NC_021164.1	Ca_Kabuli_Chr05	3798982	TT	AA	AA	INTERGENIC			
SNP_31861_A_3798988	NC_021164.1	Ca_Kabuli_Chr05	3798988	AA	CC	CC	INTERGENIC			
SNP_31862_A_3799007	NC_021164.1	Ca_Kabuli_Chr05	3799007	GG	AA	AA	INTERGENIC			
SNP_31863_A_3808798	NC_021164.1	Ca_Kabuli_Chr05	3808798	TT	CC	CC	INTERGENIC			
SNP_31864_A_3808882	NC_021164.1	Ca_Kabuli_Chr05	3808882	TT	CC	CC	INTERGENIC			
SNP_31865_A_3808905	NC_021164.1	Ca_Kabuli_Chr05	3808905	TT	CC	CC	INTERGENIC			
SNP_31866_A_3822473	NC_021164.1	Ca_Kabuli_Chr05	3822473	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31867_A_3830276	NC_021164.1	Ca_Kabuli_Chr05	3830276	CC	TT	TT	INTERGENIC			
SNP_31868_A_3837827	NC_021164.1	Ca_Kabuli_Chr05	3837827	TT	CC	CC	INTERGENIC			
SNP_31869_A_3839179	NC_021164.1	Ca_Kabuli_Chr05	3839179	GG	AA	AA	INTERGENIC			
SNP_31870_A_3839183	NC_021164.1	Ca_Kabuli_Chr05	3839183	AA	TT	TT	INTERGENIC			
SNP_31871_A_3843442	NC_021164.1	Ca_Kabuli_Chr05	3843442	TT	CC	CC	INTERGENIC			
SNP_31872_A_3843820	NC_021164.1	Ca_Kabuli_Chr05	3843820	AA	GG	GG	INTERGENIC			
SNP_31873_A_3847922	NC_021164.1	Ca_Kabuli_Chr05	3847922	CC	TT	TT	INTERGENIC			
SNP_31874_A_3848325	NC_021164.1	Ca_Kabuli_Chr05	3848325	GG	AA	AA	INTERGENIC			
SNP_31877_A_3864961	NC_021164.1	Ca_Kabuli_Chr05	3864961	TT	AA	AA	INTERGENIC			
SNP_31878_A_3865035	NC_021164.1	Ca_Kabuli_Chr05	3865035	AA	TT	TT	INTERGENIC			
SNP_31879_A_3865052	NC_021164.1	Ca_Kabuli_Chr05	3865052	AA	TT	TT	INTERGENIC			
SNP_31880_A_3865098	NC_021164.1	Ca_Kabuli_Chr05	3865098	TT	AA	AA	INTERGENIC			
SNP_31881_A_3865353	NC_021164.1	Ca_Kabuli_Chr05	3865353	AA	TT	TT	INTERGENIC			
SNP_31882_A_3865363	NC_021164.1	Ca_Kabuli_Chr05	3865363	AA	TT	TT	INTERGENIC			
SNP_31883_A_3865364	NC_021164.1	Ca_Kabuli_Chr05	3865364	GG	AA	AA	INTERGENIC			
SNP_31884_A_3865497	NC_021164.1	Ca_Kabuli_Chr05	3865497	CC	TT	TT	INTERGENIC			
SNP_31885_A_3865616	NC_021164.1	Ca_Kabuli_Chr05	3865616	AA	TT	TT	INTERGENIC			
SNP_31886_A_3865747	NC_021164.1	Ca_Kabuli_Chr05	3865747	GG	AA	AA	INTERGENIC			
SNP_31887_A_3865756	NC_021164.1	Ca_Kabuli_Chr05	3865756	CC	AA	AA	INTERGENIC			
SNP_31888_A_3865773	NC_021164.1	Ca_Kabuli_Chr05	3865773	AA	GG	GG	INTERGENIC			
SNP_31889_A_3865925	NC_021164.1	Ca_Kabuli_Chr05	3865925	GG	TT	TT	INTERGENIC			
SNP_31890_A_3866005	NC_021164.1	Ca_Kabuli_Chr05	3866005	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31891_A_3869349	NC_021164.1	Ca_Kabuli_Chr05	3869349	TT	AA	AA	INTERGENIC		
SNP_31893_A_3874624	NC_021164.1	Ca_Kabuli_Chr05	3874624	GG	AA	AA	INTERGENIC		
SNP_31894_A_3874676	NC_021164.1	Ca_Kabuli_Chr05	3874676	TT	CC	CC	INTERGENIC		
SNP_31895_A_3928907	NC_021164.1	Ca_Kabuli_Chr05	3928907	AA	GG	GG	INTRON	101513605	uncharacterized membrane protein At1g06890-like
SNP_31896_A_3993169	NC_021164.1	Ca_Kabuli_Chr05	3993169	TT	AA	AA	INTERGENIC		
SNP_31897_A_3993219	NC_021164.1	Ca_Kabuli_Chr05	3993219	CC	AA	AA	INTERGENIC		
SNP_31898_A_3993444	NC_021164.1	Ca_Kabuli_Chr05	3993444	GG	TT	TT	INTERGENIC		
SNP_31899_A_4004823	NC_021164.1	Ca_Kabuli_Chr05	4004823	GG	AA	AA	INTERGENIC		
SNP_31902_A_4064778	NC_021164.1	Ca_Kabuli_Chr05	4064778	GG	AA	AA	DRR	101514271	uncharacterized LOC101514271
SNP_31903_A_4141138	NC_021164.1	Ca_Kabuli_Chr05	4141138	AA	GG	GG	INTERGENIC		
SNP_31904_A_4141170	NC_021164.1	Ca_Kabuli_Chr05	4141170	CC	AA	AA	INTERGENIC		
SNP_31905_A_4141255	NC_021164.1	Ca_Kabuli_Chr05	4141255	AA	CC	CC	INTERGENIC		
SNP_31906_A_4141447	NC_021164.1	Ca_Kabuli_Chr05	4141447	CC	TT	TT	INTERGENIC		
SNP_31907_A_4141482	NC_021164.1	Ca_Kabuli_Chr05	4141482	TT	CC	CC	INTERGENIC		
SNP_31908_A_4141484	NC_021164.1	Ca_Kabuli_Chr05	4141484	GG	AA	AA	INTERGENIC		
SNP_31909_A_4141486	NC_021164.1	Ca_Kabuli_Chr05	4141486	GG	TT	TT	INTERGENIC		
SNP_31910_A_4141551	NC_021164.1	Ca_Kabuli_Chr05	4141551	GG	CC	CC	INTERGENIC		
SNP_31911_A_4141582	NC_021164.1	Ca_Kabuli_Chr05	4141582	TT	AA	AA	INTERGENIC		
SNP_31912_A_4141765	NC_021164.1	Ca_Kabuli_Chr05	4141765	CC	TT	TT	INTERGENIC		
SNP_31913_A_4141806	NC_021164.1	Ca_Kabuli_Chr05	4141806	AA	GG	GG	INTERGENIC		
SNP_31914_A_4141811	NC_021164.1	Ca_Kabuli_Chr05	4141811	GG	AA	AA	INTERGENIC		
SNP_31915_A_4142004	NC_021164.1	Ca_Kabuli_Chr05	4142004	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31916_A_4142010	NC_021164.1	Ca_Kabuli_Chr05	4142010	AA	GG	GG	INTERGENIC			
SNP_31917_A_4155758	NC_021164.1	Ca_Kabuli_Chr05	4155758	CC	TT	TT	INTERGENIC			
SNP_31918_A_4156295	NC_021164.1	Ca_Kabuli_Chr05	4156295	AA	GG	GG	INTERGENIC			
SNP_31919_A_4157200	NC_021164.1	Ca_Kabuli_Chr05	4157200	GG	AA	AA	INTERGENIC			
SNP_31920_A_4157553	NC_021164.1	Ca_Kabuli_Chr05	4157553	CC	TT	TT	INTERGENIC			
SNP_31921_A_4157670	NC_021164.1	Ca_Kabuli_Chr05	4157670	AA	TT	TT	INTERGENIC			
SNP_31922_A_4157717	NC_021164.1	Ca_Kabuli_Chr05	4157717	AA	CC	CC	INTERGENIC			
SNP_31923_A_4157901	NC_021164.1	Ca_Kabuli_Chr05	4157901	TT	CC	CC	INTERGENIC			
SNP_31924_A_4158810	NC_021164.1	Ca_Kabuli_Chr05	4158810	TT	GG	GG	INTERGENIC			
SNP_31925_A_4158877	NC_021164.1	Ca_Kabuli_Chr05	4158877	AA	CC	CC	INTERGENIC			
SNP_31926_A_4159018	NC_021164.1	Ca_Kabuli_Chr05	4159018	GG	AA	AA	INTERGENIC			
SNP_31927_A_4159032	NC_021164.1	Ca_Kabuli_Chr05	4159032	AA	GG	GG	INTERGENIC			
SNP_31928_A_4169387	NC_021164.1	Ca_Kabuli_Chr05	4169387	TT	CC	CC	INTERGENIC			
SNP_31929_A_4172730	NC_021164.1	Ca_Kabuli_Chr05	4172730	TT	AA	AA	INTERGENIC			
SNP_31930_A_4172823	NC_021164.1	Ca_Kabuli_Chr05	4172823	AA	GG	GG	INTERGENIC			
SNP_31931_A_4173226	NC_021164.1	Ca_Kabuli_Chr05	4173226	GG	AA	AA	INTERGENIC			
SNP_31932_A_4176329	NC_021164.1	Ca_Kabuli_Chr05	4176329	AA	TT	TT	INTERGENIC			
SNP_31933_A_4176341	NC_021164.1	Ca_Kabuli_Chr05	4176341	CC	GG	GG	INTERGENIC			
SNP_31934_A_4176346	NC_021164.1	Ca_Kabuli_Chr05	4176346	AA	GG	GG	INTERGENIC			
SNP_31936_A_4176379	NC_021164.1	Ca_Kabuli_Chr05	4176379	GG	AA	AA	INTERGENIC			
SNP_31937_A_4178539	NC_021164.1	Ca_Kabuli_Chr05	4178539	TT	GG	GG	INTERGENIC			
SNP_31938_A_4179186	NC_021164.1	Ca_Kabuli_Chr05	4179186	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_31939_A_4179222	NC_021164.1	Ca_Kabuli_Chr05	4179222	GG	CC	CC	INTERGENIC		
SNP_31941_A_4194979	NC_021164.1	Ca_Kabuli_Chr05	4194979	GG	AA	AA	INTERGENIC		
SNP_31942_A_4198567	NC_021164.1	Ca_Kabuli_Chr05	4198567	AA	GG	GG	INTERGENIC		
SNP_31943_A_4198593	NC_021164.1	Ca_Kabuli_Chr05	4198593	GG	AA	AA	INTERGENIC		
SNP_31944_A_4209327	NC_021164.1	Ca_Kabuli_Chr05	4209327	GG	TT	TT	INTERGENIC		
SNP_31945_A_4213289	NC_021164.1	Ca_Kabuli_Chr05	4213289	TT	AA	AA	NON_SYNONYMOUS_CODING	101514915	uncharacterized LOC101514915
SNP_31946_A_4217592	NC_021164.1	Ca_Kabuli_Chr05	4217592	TT	AA	AA	URR	101514915	uncharacterized LOC101514915
SNP_31947_A_4217747	NC_021164.1	Ca_Kabuli_Chr05	4217747	GG	TT	TT	URR	101514915	uncharacterized LOC101514915
SNP_31948_A_4219744	NC_021164.1	Ca_Kabuli_Chr05	4219744	AA	GG	GG	INTERGENIC		
SNP_31949_A_4219809	NC_021164.1	Ca_Kabuli_Chr05	4219809	CC	AA	AA	INTERGENIC		
SNP_31950_A_4219843	NC_021164.1	Ca_Kabuli_Chr05	4219843	GG	AA	AA	INTERGENIC		
SNP_31951_A_4219858	NC_021164.1	Ca_Kabuli_Chr05	4219858	GG	TT	TT	INTERGENIC		
SNP_31952_A_4219867	NC_021164.1	Ca_Kabuli_Chr05	4219867	AA	CC	CC	INTERGENIC		
SNP_31953_A_4220114	NC_021164.1	Ca_Kabuli_Chr05	4220114	AA	GG	GG	INTERGENIC		
SNP_31954_A_4220154	NC_021164.1	Ca_Kabuli_Chr05	4220154	GG	AA	AA	INTERGENIC		
SNP_31955_A_4220191	NC_021164.1	Ca_Kabuli_Chr05	4220191	TT	CC	CC	INTERGENIC		
SNP_31956_A_4220212	NC_021164.1	Ca_Kabuli_Chr05	4220212	CC	TT	TT	INTERGENIC		
SNP_31957_A_4220239	NC_021164.1	Ca_Kabuli_Chr05	4220239	CC	TT	TT	INTERGENIC		
SNP_31958_A_4221019	NC_021164.1	Ca_Kabuli_Chr05	4221019	AA	GG	GG	INTERGENIC		
SNP_31959_A_4221096	NC_021164.1	Ca_Kabuli_Chr05	4221096	AA	GG	GG	INTERGENIC		
SNP_31960_A_4222649	NC_021164.1	Ca_Kabuli_Chr05	4222649	AA	GG	GG	INTERGENIC		
SNP_31961_A_4222661	NC_021164.1	Ca_Kabuli_Chr05	4222661	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31962_A_4222770	NC_021164.1	Ca_Kabuli_Chr05	4222770	AA	GG	GG	INTERGENIC			
SNP_31963_A_4223036	NC_021164.1	Ca_Kabuli_Chr05	4223036	CC	TT	TT	INTERGENIC			
SNP_31964_A_4223039	NC_021164.1	Ca_Kabuli_Chr05	4223039	AA	GG	GG	INTERGENIC			
SNP_31965_A_4223052	NC_021164.1	Ca_Kabuli_Chr05	4223052	AA	GG	GG	INTERGENIC			
SNP_31966_A_4223064	NC_021164.1	Ca_Kabuli_Chr05	4223064	GG	AA	AA	INTERGENIC			
SNP_31967_A_4225214	NC_021164.1	Ca_Kabuli_Chr05	4225214	AA	TT	TT	INTERGENIC			
SNP_31968_A_4231739	NC_021164.1	Ca_Kabuli_Chr05	4231739	GG	AA	AA	INTERGENIC			
SNP_31969_A_4233433	NC_021164.1	Ca_Kabuli_Chr05	4233433	GG	AA	AA	INTERGENIC			
SNP_31970_A_4234576	NC_021164.1	Ca_Kabuli_Chr05	4234576	AA	CC	CC	INTERGENIC			
SNP_31971_A_4234580	NC_021164.1	Ca_Kabuli_Chr05	4234580	GG	TT	TT	INTERGENIC			
SNP_31972_A_4236547	NC_021164.1	Ca_Kabuli_Chr05	4236547	CC	AA	AA	INTERGENIC			
SNP_31973_A_4237407	NC_021164.1	Ca_Kabuli_Chr05	4237407	TT	AA	AA	INTERGENIC			
SNP_31974_A_4238251	NC_021164.1	Ca_Kabuli_Chr05	4238251	GG	AA	AA	INTERGENIC			
SNP_31975_A_4242013	NC_021164.1	Ca_Kabuli_Chr05	4242013	GG	AA	AA	INTERGENIC			
SNP_31976_A_4242015	NC_021164.1	Ca_Kabuli_Chr05	4242015	CC	TT	TT	INTERGENIC			
SNP_31977_A_4242016	NC_021164.1	Ca_Kabuli_Chr05	4242016	CC	TT	TT	INTERGENIC			
SNP_31978_A_4242265	NC_021164.1	Ca_Kabuli_Chr05	4242265	GG	AA	AA	INTERGENIC			
SNP_31979_A_4242339	NC_021164.1	Ca_Kabuli_Chr05	4242339	TT	AA	AA	INTERGENIC			
SNP_31980_A_4242388	NC_021164.1	Ca_Kabuli_Chr05	4242388	TT	CC	CC	INTERGENIC			
SNP_31981_A_4247753	NC_021164.1	Ca_Kabuli_Chr05	4247753	GG	TT	TT	INTERGENIC			
SNP_31982_A_4250201	NC_021164.1	Ca_Kabuli_Chr05	4250201	GG	AA	AA	INTERGENIC			
SNP_31983_A_4263884	NC_021164.1	Ca_Kabuli_Chr05	4263884	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_31984_A_4263891	NC_021164.1	Ca_Kabuli_Chr05	4263891	AA	GG	GG	INTERGENIC			
SNP_31986_A_4280605	NC_021164.1	Ca_Kabuli_Chr05	4280605	AA	GG	GG	INTERGENIC			
SNP_31988_A_4297737	NC_021164.1	Ca_Kabuli_Chr05	4297737	CC	TT	TT	INTERGENIC			
SNP_31989_A_4297870	NC_021164.1	Ca_Kabuli_Chr05	4297870	CC	TT	TT	INTERGENIC			
SNP_31990_A_4297983	NC_021164.1	Ca_Kabuli_Chr05	4297983	TT	GG	GG	INTERGENIC			
SNP_31991_A_4298054	NC_021164.1	Ca_Kabuli_Chr05	4298054	AA	GG	GG	INTERGENIC			
SNP_31992_A_4298070	NC_021164.1	Ca_Kabuli_Chr05	4298070	TT	CC	CC	INTERGENIC			
SNP_31993_A_4305792	NC_021164.1	Ca_Kabuli_Chr05	4305792	AA	TT	TT	INTERGENIC			
SNP_31994_A_4306195	NC_021164.1	Ca_Kabuli_Chr05	4306195	AA	TT	TT	INTERGENIC			
SNP_31996_A_4313525	NC_021164.1	Ca_Kabuli_Chr05	4313525	CC	TT	TT	INTERGENIC			
SNP_31997_A_4314623	NC_021164.1	Ca_Kabuli_Chr05	4314623	GG	AA	AA	INTERGENIC			
SNP_31998_A_4314908	NC_021164.1	Ca_Kabuli_Chr05	4314908	GG	TT	TT	INTERGENIC			
SNP_31999_A_4314909	NC_021164.1	Ca_Kabuli_Chr05	4314909	TT	AA	AA	INTERGENIC			
SNP_32000_A_4314961	NC_021164.1	Ca_Kabuli_Chr05	4314961	TT	AA	AA	INTERGENIC			
SNP_32001_A_4315683	NC_021164.1	Ca_Kabuli_Chr05	4315683	CC	GG	GG	INTERGENIC			
SNP_32002_A_4361914	NC_021164.1	Ca_Kabuli_Chr05	4361914	AA	GG	GG	URR	101488758	Unknown function	
SNP_32003_A_4433503	NC_021164.1	Ca_Kabuli_Chr05	4433503	CC	AA	AA	INTERGENIC			
SNP_32004_A_4433506	NC_021164.1	Ca_Kabuli_Chr05	4433506	TT	CC	CC	INTERGENIC			
SNP_32005_A_4433515	NC_021164.1	Ca_Kabuli_Chr05	4433515	AA	TT	TT	INTERGENIC			
SNP_32006_A_4433778	NC_021164.1	Ca_Kabuli_Chr05	4433778	AA	TT	TT	INTERGENIC			
SNP_32007_A_4433783	NC_021164.1	Ca_Kabuli_Chr05	4433783	TT	AA	AA	INTERGENIC			
SNP_32008_A_4433829	NC_021164.1	Ca_Kabuli_Chr05	4433829	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32009_A_4434019	NC_021164.1	Ca_Kabuli_Chr05	4434019	TT	GG	GG	INTERGENIC		
SNP_32010_A_4437038	NC_021164.1	Ca_Kabuli_Chr05	4437038	GG	CC	CC	INTERGENIC		
SNP_32012_A_4536055	NC_021164.1	Ca_Kabuli_Chr05	4536055	AA	GG	GG	INTERGENIC		
SNP_32013_A_4541754	NC_021164.1	Ca_Kabuli_Chr05	4541754	CC	TT	TT	INTERGENIC		
SNP_32014_A_4541758	NC_021164.1	Ca_Kabuli_Chr05	4541758	AA	GG	GG	INTERGENIC		
SNP_32015_A_4542076	NC_021164.1	Ca_Kabuli_Chr05	4542076	GG	AA	AA	INTERGENIC		
SNP_32016_A_4542198	NC_021164.1	Ca_Kabuli_Chr05	4542198	CC	GG	GG	INTERGENIC		
SNP_32017_A_4542230	NC_021164.1	Ca_Kabuli_Chr05	4542230	GG	TT	TT	INTERGENIC		
SNP_32018_A_4542271	NC_021164.1	Ca_Kabuli_Chr05	4542271	CC	TT	TT	INTERGENIC		
SNP_32019_A_4542276	NC_021164.1	Ca_Kabuli_Chr05	4542276	GG	AA	AA	INTERGENIC		
SNP_32020_A_4556981	NC_021164.1	Ca_Kabuli_Chr05	4556981	AA	TT	TT	INTERGENIC		
SNP_32021_A_4575962	NC_021164.1	Ca_Kabuli_Chr05	4575962	AA	GG	GG	INTERGENIC		
SNP_32022_A_4593499	NC_021164.1	Ca_Kabuli_Chr05	4593499	CC	TT	TT	NON_SYNONYMOUS_CODING	101490060	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_32023_A_4616303	NC_021164.1	Ca_Kabuli_Chr05	4616303	AA	GG	GG	INTERGENIC		
SNP_32024_A_4616320	NC_021164.1	Ca_Kabuli_Chr05	4616320	TT	CC	CC	INTERGENIC		
SNP_32025_A_4616321	NC_021164.1	Ca_Kabuli_Chr05	4616321	GG	AA	AA	INTERGENIC		
SNP_32026_A_4616361	NC_021164.1	Ca_Kabuli_Chr05	4616361	GG	AA	AA	INTERGENIC		
SNP_32027_A_4620723	NC_021164.1	Ca_Kabuli_Chr05	4620723	GG	AA	AA	URR	101491041	glycine-rich cell wall structural protein 1-like
SNP_32028_A_4673053	NC_021164.1	Ca_Kabuli_Chr05	4673053	CC	AA	AA	INTERGENIC		
SNP_32029_A_4673215	NC_021164.1	Ca_Kabuli_Chr05	4673215	GG	AA	AA	INTERGENIC		
SNP_32030_A_4673220	NC_021164.1	Ca_Kabuli_Chr05	4673220	AA	GG	GG	INTERGENIC		
SNP_32031_A_4673246	NC_021164.1	Ca_Kabuli_Chr05	4673246	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32032_A_4689578	NC_021164.1	Ca_Kabuli_Chr05	4689578	TT	GG	GG	INTERGENIC			
SNP_32033_A_4690461	NC_021164.1	Ca_Kabuli_Chr05	4690461	AA	TT	TT	INTERGENIC			
SNP_32034_A_4694344	NC_021164.1	Ca_Kabuli_Chr05	4694344	TT	CC	CC	INTERGENIC			
SNP_32035_A_4713707	NC_021164.1	Ca_Kabuli_Chr05	4713707	TT	GG	GG	INTERGENIC			
SNP_32036_A_4717819	NC_021164.1	Ca_Kabuli_Chr05	4717819	AA	GG	GG	INTERGENIC			
SNP_32037_A_4731052	NC_021164.1	Ca_Kabuli_Chr05	4731052	GG	AA	AA	INTERGENIC			
SNP_32038_A_4731379	NC_021164.1	Ca_Kabuli_Chr05	4731379	TT	CC	CC	INTERGENIC			
SNP_32039_A_4731615	NC_021164.1	Ca_Kabuli_Chr05	4731615	AA	GG	GG	INTERGENIC			
SNP_32040_A_4737099	NC_021164.1	Ca_Kabuli_Chr05	4737099	GG	AA	AA	INTERGENIC			
SNP_32041_A_4737129	NC_021164.1	Ca_Kabuli_Chr05	4737129	GG	AA	AA	INTERGENIC			
SNP_32042_A_4747663	NC_021164.1	Ca_Kabuli_Chr05	4747663	TT	GG	GG	INTERGENIC			
SNP_32043_A_4747981	NC_021164.1	Ca_Kabuli_Chr05	4747981	AA	TT	TT	INTERGENIC			
SNP_32044_A_4748102	NC_021164.1	Ca_Kabuli_Chr05	4748102	TT	CC	CC	INTERGENIC			
SNP_32045_A_4748580	NC_021164.1	Ca_Kabuli_Chr05	4748580	TT	AA	AA	INTERGENIC			
SNP_32046_A_4748760	NC_021164.1	Ca_Kabuli_Chr05	4748760	TT	AA	AA	INTERGENIC			
SNP_32047_A_4748935	NC_021164.1	Ca_Kabuli_Chr05	4748935	AA	TT	TT	INTERGENIC			
SNP_32048_A_4751874	NC_021164.1	Ca_Kabuli_Chr05	4751874	TT	GG	GG	INTERGENIC			
SNP_32049_A_4763141	NC_021164.1	Ca_Kabuli_Chr05	4763141	CC	GG	GG	INTERGENIC			
SNP_32050_A_4763146	NC_021164.1	Ca_Kabuli_Chr05	4763146	GG	AA	AA	INTERGENIC			
SNP_32051_A_4763170	NC_021164.1	Ca_Kabuli_Chr05	4763170	CC	TT	TT	INTERGENIC			
SNP_32052_A_4767646	NC_021164.1	Ca_Kabuli_Chr05	4767646	AA	GG	GG	INTERGENIC			
SNP_32053_A_4767944	NC_021164.1	Ca_Kabuli_Chr05	4767944	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32054_A_4768004	NC_021164.1	Ca_Kabuli_Chr05	4768004	AA	TT	TT	INTERGENIC			
SNP_32055_A_4768020	NC_021164.1	Ca_Kabuli_Chr05	4768020	GG	TT	TT	INTERGENIC			
SNP_32056_A_4768040	NC_021164.1	Ca_Kabuli_Chr05	4768040	AA	GG	GG	INTERGENIC			
SNP_32057_A_4768343	NC_021164.1	Ca_Kabuli_Chr05	4768343	TT	CC	CC	INTERGENIC			
SNP_32058_A_4768369	NC_021164.1	Ca_Kabuli_Chr05	4768369	TT	CC	CC	INTERGENIC			
SNP_32059_A_4768376	NC_021164.1	Ca_Kabuli_Chr05	4768376	GG	AA	AA	INTERGENIC			
SNP_32060_A_4768387	NC_021164.1	Ca_Kabuli_Chr05	4768387	TT	GG	GG	INTERGENIC			
SNP_32061_A_4768408	NC_021164.1	Ca_Kabuli_Chr05	4768408	GG	AA	AA	INTERGENIC			
SNP_32062_A_4768427	NC_021164.1	Ca_Kabuli_Chr05	4768427	TT	CC	CC	INTERGENIC			
SNP_32063_A_4768442	NC_021164.1	Ca_Kabuli_Chr05	4768442	TT	CC	CC	INTERGENIC			
SNP_32064_A_4768595	NC_021164.1	Ca_Kabuli_Chr05	4768595	CC	TT	TT	INTERGENIC			
SNP_32065_A_4768638	NC_021164.1	Ca_Kabuli_Chr05	4768638	GG	TT	TT	INTERGENIC			
SNP_32066_A_4768668	NC_021164.1	Ca_Kabuli_Chr05	4768668	AA	TT	TT	INTERGENIC			
SNP_32067_A_4768706	NC_021164.1	Ca_Kabuli_Chr05	4768706	CC	TT	TT	INTERGENIC			
SNP_32068_A_4768723	NC_021164.1	Ca_Kabuli_Chr05	4768723	GG	AA	AA	INTERGENIC			
SNP_32069_A_4768730	NC_021164.1	Ca_Kabuli_Chr05	4768730	CC	TT	TT	INTERGENIC			
SNP_32070_A_4793230	NC_021164.1	Ca_Kabuli_Chr05	4793230	AA	GG	GG	INTERGENIC			
SNP_32071_A_4794635	NC_021164.1	Ca_Kabuli_Chr05	4794635	GG	AA	AA	INTERGENIC			
SNP_32072_A_4794649	NC_021164.1	Ca_Kabuli_Chr05	4794649	CC	TT	TT	INTERGENIC			
SNP_32073_A_4794650	NC_021164.1	Ca_Kabuli_Chr05	4794650	AA	GG	GG	INTERGENIC			
SNP_32074_A_4794651	NC_021164.1	Ca_Kabuli_Chr05	4794651	AA	TT	TT	INTERGENIC			
SNP_32075_A_4794656	NC_021164.1	Ca_Kabuli_Chr05	4794656	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32076_A_4794657	NC_021164.1	Ca_Kabuli_Chr05	4794657	GG	TT	TT	INTERGENIC			
SNP_32077_A_4830840	NC_021164.1	Ca_Kabuli_Chr05	4830840	TT	CC	CC	INTERGENIC			
SNP_32078_A_4855874	NC_021164.1	Ca_Kabuli_Chr05	4855874	GG	AA	AA	INTERGENIC			
SNP_32079_A_4855961	NC_021164.1	Ca_Kabuli_Chr05	4855961	TT	CC	CC	INTERGENIC			
SNP_32080_A_4856044	NC_021164.1	Ca_Kabuli_Chr05	4856044	GG	AA	AA	INTERGENIC			
SNP_32081_A_4856183	NC_021164.1	Ca_Kabuli_Chr05	4856183	TT	CC	CC	INTERGENIC			
SNP_32082_A_4856227	NC_021164.1	Ca_Kabuli_Chr05	4856227	AA	GG	GG	INTERGENIC			
SNP_32083_A_4856228	NC_021164.1	Ca_Kabuli_Chr05	4856228	GG	TT	TT	INTERGENIC			
SNP_32084_A_4856543	NC_021164.1	Ca_Kabuli_Chr05	4856543	AA	CC	CC	INTERGENIC			
SNP_32085_A_4857288	NC_021164.1	Ca_Kabuli_Chr05	4857288	AA	CC	CC	INTERGENIC			
SNP_32086_A_4869494	NC_021164.1	Ca_Kabuli_Chr05	4869494	GG	TT	TT	INTERGENIC			
SNP_32087_A_4869935	NC_021164.1	Ca_Kabuli_Chr05	4869935	CC	TT	TT	INTERGENIC			
SNP_32088_A_4870151	NC_021164.1	Ca_Kabuli_Chr05	4870151	TT	CC	CC	INTERGENIC			
SNP_32089_A_4870185	NC_021164.1	Ca_Kabuli_Chr05	4870185	GG	AA	AA	INTERGENIC			
SNP_32090_A_4870492	NC_021164.1	Ca_Kabuli_Chr05	4870492	CC	TT	TT	INTERGENIC			
SNP_32091_A_4870528	NC_021164.1	Ca_Kabuli_Chr05	4870528	GG	AA	AA	INTERGENIC			
SNP_32092_A_4885274	NC_021164.1	Ca_Kabuli_Chr05	4885274	GG	TT	TT	DRR	101491675	Unknown function	
SNP_32093_A_4910639	NC_021164.1	Ca_Kabuli_Chr05	4910639	GG	AA	AA	INTERGENIC			
SNP_32094_A_4920527	NC_021164.1	Ca_Kabuli_Chr05	4920527	TT	CC	CC	INTERGENIC			
SNP_32095_A_4920528	NC_021164.1	Ca_Kabuli_Chr05	4920528	AA	TT	TT	INTERGENIC			
SNP_32096_A_4957941	NC_021164.1	Ca_Kabuli_Chr05	4957941	CC	TT	TT	DRR	101495991	Unknown function	
SNP_32097_A_4958722	NC_021164.1	Ca_Kabuli_Chr05	4958722	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32098_A_4959352	NC_021164.1	Ca_Kabuli_Chr05	4959352	AA	TT	TT	INTERGENIC			
SNP_32099_A_4959425	NC_021164.1	Ca_Kabuli_Chr05	4959425	CC	TT	TT	INTERGENIC			
SNP_32100_A_4959436	NC_021164.1	Ca_Kabuli_Chr05	4959436	AA	CC	CC	URR	101495991		Unknown function
SNP_32101_A_4959462	NC_021164.1	Ca_Kabuli_Chr05	4959462	TT	CC	CC	URR	101495991		Unknown function
SNP_32102_A_4959467	NC_021164.1	Ca_Kabuli_Chr05	4959467	TT	GG	GG	URR	101495991		Unknown function
SNP_32103_A_4962394	NC_021164.1	Ca_Kabuli_Chr05	4962394	CC	AA	AA	DRR	101496326		uncharacterized LOC101496326
SNP_32105_A_4969267	NC_021164.1	Ca_Kabuli_Chr05	4969267	GG	AA	AA	INTERGENIC			
SNP_32106_A_4969274	NC_021164.1	Ca_Kabuli_Chr05	4969274	TT	CC	CC	INTERGENIC			
SNP_32107_A_4969348	NC_021164.1	Ca_Kabuli_Chr05	4969348	TT	CC	CC	INTERGENIC			
SNP_32108_A_4969350	NC_021164.1	Ca_Kabuli_Chr05	4969350	TT	CC	CC	INTERGENIC			
SNP_32109_A_4969579	NC_021164.1	Ca_Kabuli_Chr05	4969579	CC	TT	TT	INTERGENIC			
SNP_32110_A_4969686	NC_021164.1	Ca_Kabuli_Chr05	4969686	AA	TT	TT	INTERGENIC			
SNP_32111_A_4969758	NC_021164.1	Ca_Kabuli_Chr05	4969758	AA	GG	GG	INTERGENIC			
SNP_32112_A_4969792	NC_021164.1	Ca_Kabuli_Chr05	4969792	AA	GG	GG	INTERGENIC			
SNP_32113_A_5012894	NC_021164.1	Ca_Kabuli_Chr05	5012894	TT	AA	AA	URR	101492985		Unknown function
SNP_32114_A_5012936	NC_021164.1	Ca_Kabuli_Chr05	5012936	GG	AA	AA	URR	101492985		Unknown function
SNP_32115_A_5083388	NC_021164.1	Ca_Kabuli_Chr05	5083388	GG	AA	AA	INTRON	101497298		Unknown function
SNP_32116_A_5147401	NC_021164.1	Ca_Kabuli_Chr05	5147401	TT	CC	CC	URR	101495666		uncharacterized LOC101495666
SNP_32118_A_5193962	NC_021164.1	Ca_Kabuli_Chr05	5193962	CC	TT	TT	INTERGENIC			
SNP_32119_A_5194011	NC_021164.1	Ca_Kabuli_Chr05	5194011	AA	GG	GG	INTERGENIC			
SNP_32120_A_5194030	NC_021164.1	Ca_Kabuli_Chr05	5194030	GG	TT	TT	INTERGENIC			
SNP_32121_A_5194031	NC_021164.1	Ca_Kabuli_Chr05	5194031	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32122_A_5194049	NC_021164.1	Ca_Kabuli_Chr05	5194049	AA	GG	GG	INTERGENIC			
SNP_32123_A_5194103	NC_021164.1	Ca_Kabuli_Chr05	5194103	TT	CC	CC	INTERGENIC			
SNP_32124_A_5194140	NC_021164.1	Ca_Kabuli_Chr05	5194140	TT	GG	GG	INTERGENIC			
SNP_32125_A_5194168	NC_021164.1	Ca_Kabuli_Chr05	5194168	TT	CC	CC	INTERGENIC			
SNP_32126_A_5194177	NC_021164.1	Ca_Kabuli_Chr05	5194177	AA	GG	GG	INTERGENIC			
SNP_32128_A_5269099	NC_021164.1	Ca_Kabuli_Chr05	5269099	AA	CC	CC	INTERGENIC			
SNP_32129_A_5269122	NC_021164.1	Ca_Kabuli_Chr05	5269122	TT	CC	CC	INTERGENIC			
SNP_32130_A_5269228	NC_021164.1	Ca_Kabuli_Chr05	5269228	TT	AA	AA	INTERGENIC			
SNP_32131_A_5269246	NC_021164.1	Ca_Kabuli_Chr05	5269246	AA	GG	GG	INTERGENIC			
SNP_32132_A_5269255	NC_021164.1	Ca_Kabuli_Chr05	5269255	TT	CC	CC	INTERGENIC			
SNP_32133_A_5269276	NC_021164.1	Ca_Kabuli_Chr05	5269276	TT	CC	CC	INTERGENIC			
SNP_32134_A_5299414	NC_021164.1	Ca_Kabuli_Chr05	5299414	CC	GG	GG	INTERGENIC			
SNP_32135_A_5299472	NC_021164.1	Ca_Kabuli_Chr05	5299472	CC	TT	TT	INTERGENIC			
SNP_32136_A_5299505	NC_021164.1	Ca_Kabuli_Chr05	5299505	CC	TT	TT	INTERGENIC			
SNP_32137_A_5299520	NC_021164.1	Ca_Kabuli_Chr05	5299520	TT	CC	CC	INTERGENIC			
SNP_32138_A_5299830	NC_021164.1	Ca_Kabuli_Chr05	5299830	AA	GG	GG	INTERGENIC			
SNP_32139_A_5299870	NC_021164.1	Ca_Kabuli_Chr05	5299870	AA	CC	CC	INTERGENIC			
SNP_32141_A_5299898	NC_021164.1	Ca_Kabuli_Chr05	5299898	TT	CC	CC	INTERGENIC			
SNP_32142_A_5299936	NC_021164.1	Ca_Kabuli_Chr05	5299936	AA	GG	GG	INTERGENIC			
SNP_32143_A_5300015	NC_021164.1	Ca_Kabuli_Chr05	5300015	CC	TT	TT	INTERGENIC			
SNP_32145_A_5318972	NC_021164.1	Ca_Kabuli_Chr05	5318972	CC	GG	GG	INTERGENIC			
SNP_32146_A_5319575	NC_021164.1	Ca_Kabuli_Chr05	5319575	TT	GG	GG	INTERGENIC			

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SNP_32147_A_5352803	NC_021164.1	Ca_Kabuli_Chr05	5352803	AA	TT	TT	INTERGENIC			
SNP_32148_A_5352858	NC_021164.1	Ca_Kabuli_Chr05	5352858	TT	AA	AA	INTERGENIC			
SNP_32149_A_5363215	NC_021164.1	Ca_Kabuli_Chr05	5363215	TT	GG	GG	INTERGENIC			
SNP_32150_A_5363260	NC_021164.1	Ca_Kabuli_Chr05	5363260	TT	GG	GG	INTERGENIC			
SNP_32151_A_5363282	NC_021164.1	Ca_Kabuli_Chr05	5363282	TT	CC	CC	INTERGENIC			
SNP_32152_A_5363286	NC_021164.1	Ca_Kabuli_Chr05	5363286	CC	GG	GG	INTERGENIC			
SNP_32153_A_5363375	NC_021164.1	Ca_Kabuli_Chr05	5363375	AA	CC	CC	INTERGENIC			
SNP_32154_A_5363524	NC_021164.1	Ca_Kabuli_Chr05	5363524	TT	GG	GG	INTERGENIC			
SNP_32155_A_5363545	NC_021164.1	Ca_Kabuli_Chr05	5363545	AA	CC	CC	INTERGENIC			
SNP_32156_A_5363665	NC_021164.1	Ca_Kabuli_Chr05	5363665	GG	AA	AA	INTERGENIC			
SNP_32157_A_5397086	NC_021164.1	Ca_Kabuli_Chr05	5397086	TT	AA	AA	INTERGENIC			
SNP_32158_A_5415961	NC_021164.1	Ca_Kabuli_Chr05	5415961	AA	CC	CC	INTERGENIC			
SNP_32159_A_5436551	NC_021164.1	Ca_Kabuli_Chr05	5436551	AA	GG	GG	INTERGENIC			
SNP_32160_A_5436962	NC_021164.1	Ca_Kabuli_Chr05	5436962	AA	GG	GG	INTERGENIC			
SNP_32161_A_5436969	NC_021164.1	Ca_Kabuli_Chr05	5436969	CC	AA	AA	INTERGENIC			
SNP_32162_A_5469332	NC_021164.1	Ca_Kabuli_Chr05	5469332	CC	GG	GG	INTERGENIC			
SNP_32163_A_5481085	NC_021164.1	Ca_Kabuli_Chr05	5481085	AA	GG	GG	INTERGENIC			
SNP_32164_A_5544592	NC_021164.1	Ca_Kabuli_Chr05	5544592	CC	TT	TT	INTERGENIC			
SNP_32165_A_5586003	NC_021164.1	Ca_Kabuli_Chr05	5586003	TT	CC	CC	INTERGENIC			
SNP_32166_A_5586059	NC_021164.1	Ca_Kabuli_Chr05	5586059	TT	CC	CC	INTERGENIC			
SNP_32167_A_5586094	NC_021164.1	Ca_Kabuli_Chr05	5586094	GG	CC	CC	INTERGENIC			
SNP_32168_A_5586104	NC_021164.1	Ca_Kabuli_Chr05	5586104	AA	GG	GG	INTERGENIC			

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SNP_32169_A_5586245	NC_021164.1	Ca_Kabuli_Chr05	5586245	GG	TT	TT	INTERGENIC			
SNP_32170_A_5586247	NC_021164.1	Ca_Kabuli_Chr05	5586247	TT	CC	CC	INTERGENIC			
SNP_32171_A_5586251	NC_021164.1	Ca_Kabuli_Chr05	5586251	CC	TT	TT	INTERGENIC			
SNP_32172_A_5586286	NC_021164.1	Ca_Kabuli_Chr05	5586286	CC	TT	TT	INTERGENIC			
SNP_32173_A_5586411	NC_021164.1	Ca_Kabuli_Chr05	5586411	CC	TT	TT	INTERGENIC			
SNP_32174_A_5586412	NC_021164.1	Ca_Kabuli_Chr05	5586412	CC	TT	TT	INTERGENIC			
SNP_32175_A_5586416	NC_021164.1	Ca_Kabuli_Chr05	5586416	GG	TT	TT	INTERGENIC			
SNP_32176_A_5586448	NC_021164.1	Ca_Kabuli_Chr05	5586448	CC	TT	TT	INTERGENIC			
SNP_32177_A_5590618	NC_021164.1	Ca_Kabuli_Chr05	5590618	TT	CC	CC	INTERGENIC			
SNP_32178_A_5590635	NC_021164.1	Ca_Kabuli_Chr05	5590635	GG	CC	CC	INTERGENIC			
SNP_32179_A_5590638	NC_021164.1	Ca_Kabuli_Chr05	5590638	CC	TT	TT	INTERGENIC			
SNP_32180_A_5590639	NC_021164.1	Ca_Kabuli_Chr05	5590639	AA	GG	GG	INTERGENIC			
SNP_32181_A_5590660	NC_021164.1	Ca_Kabuli_Chr05	5590660	AA	GG	GG	INTERGENIC			
SNP_32182_A_5590827	NC_021164.1	Ca_Kabuli_Chr05	5590827	TT	GG	GG	INTERGENIC			
SNP_32184_A_5735419	NC_021164.1	Ca_Kabuli_Chr05	5735419	AA	TT	TT	INTERGENIC			
SNP_32185_A_5735426	NC_021164.1	Ca_Kabuli_Chr05	5735426	TT	CC	CC	INTERGENIC			
SNP_32186_A_5769482	NC_021164.1	Ca_Kabuli_Chr05	5769482	TT	CC	CC	INTERGENIC			
SNP_32187_A_5788971	NC_021164.1	Ca_Kabuli_Chr05	5788971	GG	TT	TT	INTERGENIC			
SNP_32188_A_5825113	NC_021164.1	Ca_Kabuli_Chr05	5825113	GG	AA	AA	INTERGENIC			
SNP_32189_A_5825142	NC_021164.1	Ca_Kabuli_Chr05	5825142	TT	GG	GG	INTERGENIC			
SNP_32190_A_5825443	NC_021164.1	Ca_Kabuli_Chr05	5825443	AA	GG	GG	INTERGENIC			
SNP_32191_A_5825469	NC_021164.1	Ca_Kabuli_Chr05	5825469	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32192_A_5827337	NC_021164.1	Ca_Kabuli_Chr05	5827337	CC	TT	TT	INTERGENIC			
SNP_32193_A_5827357	NC_021164.1	Ca_Kabuli_Chr05	5827357	TT	CC	CC	INTERGENIC			
SNP_32194_A_5827445	NC_021164.1	Ca_Kabuli_Chr05	5827445	AA	CC	CC	INTERGENIC			
SNP_32195_A_5827458	NC_021164.1	Ca_Kabuli_Chr05	5827458	TT	GG	GG	INTERGENIC			
SNP_32196_A_5827525	NC_021164.1	Ca_Kabuli_Chr05	5827525	CC	TT	TT	INTERGENIC			
SNP_32197_A_5827550	NC_021164.1	Ca_Kabuli_Chr05	5827550	AA	CC	CC	INTERGENIC			
SNP_32198_A_5827566	NC_021164.1	Ca_Kabuli_Chr05	5827566	AA	GG	GG	INTERGENIC			
SNP_32199_A_5827585	NC_021164.1	Ca_Kabuli_Chr05	5827585	TT	GG	GG	INTERGENIC			
SNP_32200_A_5827634	NC_021164.1	Ca_Kabuli_Chr05	5827634	CC	TT	TT	INTERGENIC			
SNP_32201_A_5827823	NC_021164.1	Ca_Kabuli_Chr05	5827823	CC	TT	TT	INTERGENIC			
SNP_32202_A_5827833	NC_021164.1	Ca_Kabuli_Chr05	5827833	GG	AA	AA	INTERGENIC			
SNP_32203_A_5827835	NC_021164.1	Ca_Kabuli_Chr05	5827835	CC	TT	TT	INTERGENIC			
SNP_32205_A_5828170	NC_021164.1	Ca_Kabuli_Chr05	5828170	AA	GG	GG	INTERGENIC			
SNP_32206_A_5831378	NC_021164.1	Ca_Kabuli_Chr05	5831378	TT	GG	GG	INTERGENIC			
SNP_32207_A_5831649	NC_021164.1	Ca_Kabuli_Chr05	5831649	TT	CC	CC	INTERGENIC			
SNP_32208_A_5833063	NC_021164.1	Ca_Kabuli_Chr05	5833063	GG	TT	TT	INTERGENIC			
SNP_32209_A_5835241	NC_021164.1	Ca_Kabuli_Chr05	5835241	TT	CC	CC	INTERGENIC			
SNP_32210_A_5835250	NC_021164.1	Ca_Kabuli_Chr05	5835250	AA	CC	CC	INTERGENIC			
SNP_32211_A_5835428	NC_021164.1	Ca_Kabuli_Chr05	5835428	TT	AA	AA	INTERGENIC			
SNP_32212_A_5835517	NC_021164.1	Ca_Kabuli_Chr05	5835517	AA	GG	GG	INTERGENIC			
SNP_32213_A_5835725	NC_021164.1	Ca_Kabuli_Chr05	5835725	GG	TT	TT	INTERGENIC			
SNP_32214_A_5836252	NC_021164.1	Ca_Kabuli_Chr05	5836252	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32215_A_5836280	NC_021164.1	Ca_Kabuli_Chr05	5836280	TT	CC	CC	INTERGENIC			
SNP_32216_A_5836284	NC_021164.1	Ca_Kabuli_Chr05	5836284	CC	AA	AA	INTERGENIC			
SNP_32217_A_5836402	NC_021164.1	Ca_Kabuli_Chr05	5836402	TT	GG	GG	INTERGENIC			
SNP_32218_A_5836407	NC_021164.1	Ca_Kabuli_Chr05	5836407	GG	TT	TT	INTERGENIC			
SNP_32219_A_5836473	NC_021164.1	Ca_Kabuli_Chr05	5836473	CC	TT	TT	INTERGENIC			
SNP_32220_A_5836528	NC_021164.1	Ca_Kabuli_Chr05	5836528	AA	CC	CC	INTERGENIC			
SNP_32221_A_5836709	NC_021164.1	Ca_Kabuli_Chr05	5836709	CC	AA	AA	INTERGENIC			
SNP_32222_A_5836718	NC_021164.1	Ca_Kabuli_Chr05	5836718	GG	AA	AA	INTERGENIC			
SNP_32223_A_5836721	NC_021164.1	Ca_Kabuli_Chr05	5836721	GG	AA	AA	INTERGENIC			
SNP_32225_A_5836913	NC_021164.1	Ca_Kabuli_Chr05	5836913	CC	GG	GG	INTERGENIC			
SNP_32226_A_5836920	NC_021164.1	Ca_Kabuli_Chr05	5836920	TT	GG	GG	INTERGENIC			
SNP_32227_A_5836955	NC_021164.1	Ca_Kabuli_Chr05	5836955	TT	GG	GG	INTERGENIC			
SNP_32228_A_5836999	NC_021164.1	Ca_Kabuli_Chr05	5836999	TT	AA	AA	INTERGENIC			
SNP_32229_A_5837024	NC_021164.1	Ca_Kabuli_Chr05	5837024	GG	AA	AA	INTERGENIC			
SNP_32231_A_5837131	NC_021164.1	Ca_Kabuli_Chr05	5837131	TT	CC	CC	INTERGENIC			
SNP_32232_A_5837271	NC_021164.1	Ca_Kabuli_Chr05	5837271	TT	CC	CC	INTERGENIC			
SNP_32233_A_5837283	NC_021164.1	Ca_Kabuli_Chr05	5837283	AA	GG	GG	INTERGENIC			
SNP_32234_A_5837327	NC_021164.1	Ca_Kabuli_Chr05	5837327	TT	AA	AA	INTERGENIC			
SNP_32235_A_5854984	NC_021164.1	Ca_Kabuli_Chr05	5854984	TT	CC	CC	INTERGENIC			
SNP_32236_A_5855795	NC_021164.1	Ca_Kabuli_Chr05	5855795	AA	GG	GG	INTERGENIC			
SNP_32237_A_5857839	NC_021164.1	Ca_Kabuli_Chr05	5857839	TT	CC	CC	INTERGENIC			
SNP_32238_A_5868375	NC_021164.1	Ca_Kabuli_Chr05	5868375	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32239_A_5868381	NC_021164.1	Ca_Kabuli_Chr05	5868381	CC	AA	AA	INTERGENIC			
SNP_32240_A_5868385	NC_021164.1	Ca_Kabuli_Chr05	5868385	CC	GG	GG	INTERGENIC			
SNP_32241_A_5869851	NC_021164.1	Ca_Kabuli_Chr05	5869851	AA	GG	GG	INTERGENIC			
SNP_32242_A_5870240	NC_021164.1	Ca_Kabuli_Chr05	5870240	GG	TT	TT	INTERGENIC			
SNP_32243_A_5870259	NC_021164.1	Ca_Kabuli_Chr05	5870259	AA	GG	GG	INTERGENIC			
SNP_32244_A_5873106	NC_021164.1	Ca_Kabuli_Chr05	5873106	TT	CC	CC	INTERGENIC			
SNP_32245_A_5953277	NC_021164.1	Ca_Kabuli_Chr05	5953277	AA	GG	GG	INTERGENIC			
SNP_32246_A_5957172	NC_021164.1	Ca_Kabuli_Chr05	5957172	AA	CC	CC	INTERGENIC			
SNP_32247_A_5963711	NC_021164.1	Ca_Kabuli_Chr05	5963711	TT	AA	AA	INTERGENIC			
SNP_32248_A_5969749	NC_021164.1	Ca_Kabuli_Chr05	5969749	TT	AA	AA	INTERGENIC			
SNP_32249_A_5969770	NC_021164.1	Ca_Kabuli_Chr05	5969770	AA	TT	TT	INTERGENIC			
SNP_32250_A_5969798	NC_021164.1	Ca_Kabuli_Chr05	5969798	TT	CC	CC	INTERGENIC			
SNP_32251_A_5969953	NC_021164.1	Ca_Kabuli_Chr05	5969953	AA	CC	CC	INTERGENIC			
SNP_32252_A_5969957	NC_021164.1	Ca_Kabuli_Chr05	5969957	AA	CC	CC	INTERGENIC			
SNP_32253_A_5969974	NC_021164.1	Ca_Kabuli_Chr05	5969974	GG	TT	TT	INTERGENIC			
SNP_32254_A_5969978	NC_021164.1	Ca_Kabuli_Chr05	5969978	GG	TT	TT	INTERGENIC			
SNP_32255_A_5970021	NC_021164.1	Ca_Kabuli_Chr05	5970021	AA	TT	TT	INTERGENIC			
SNP_32256_A_5970030	NC_021164.1	Ca_Kabuli_Chr05	5970030	AA	GG	GG	INTERGENIC			
SNP_32257_A_5970043	NC_021164.1	Ca_Kabuli_Chr05	5970043	AA	CC	CC	INTERGENIC			
SNP_32258_A_5970132	NC_021164.1	Ca_Kabuli_Chr05	5970132	TT	CC	CC	INTERGENIC			
SNP_32259_A_5970141	NC_021164.1	Ca_Kabuli_Chr05	5970141	AA	GG	GG	INTERGENIC			
SNP_32260_A_5970145	NC_021164.1	Ca_Kabuli_Chr05	5970145	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32261_A_5970148	NC_021164.1	Ca_Kabuli_Chr05	5970148	AA	CC	CC	INTERGENIC			
SNP_32262_A_5970184	NC_021164.1	Ca_Kabuli_Chr05	5970184	CC	GG	GG	INTERGENIC			
SNP_32263_A_5970262	NC_021164.1	Ca_Kabuli_Chr05	5970262	CC	TT	TT	INTERGENIC			
SNP_32264_A_5970267	NC_021164.1	Ca_Kabuli_Chr05	5970267	CC	AA	AA	INTERGENIC			
SNP_32265_A_5970295	NC_021164.1	Ca_Kabuli_Chr05	5970295	TT	CC	CC	INTERGENIC			
SNP_32266_A_5970420	NC_021164.1	Ca_Kabuli_Chr05	5970420	AA	GG	GG	INTERGENIC			
SNP_32267_A_5970626	NC_021164.1	Ca_Kabuli_Chr05	5970626	GG	CC	CC	INTERGENIC			
SNP_32268_A_5974943	NC_021164.1	Ca_Kabuli_Chr05	5974943	TT	AA	AA	INTERGENIC			
SNP_32269_A_5975265	NC_021164.1	Ca_Kabuli_Chr05	5975265	AA	TT	TT	INTERGENIC			
SNP_32270_A_5991325	NC_021164.1	Ca_Kabuli_Chr05	5991325	GG	TT	TT	INTERGENIC			
SNP_32271_A_5991344	NC_021164.1	Ca_Kabuli_Chr05	5991344	GG	AA	AA	INTERGENIC			
SNP_32272_A_5991485	NC_021164.1	Ca_Kabuli_Chr05	5991485	GG	AA	AA	INTERGENIC			
SNP_32273_A_5991840	NC_021164.1	Ca_Kabuli_Chr05	5991840	CC	TT	TT	INTERGENIC			
SNP_32274_A_5994806	NC_021164.1	Ca_Kabuli_Chr05	5994806	TT	AA	AA	INTERGENIC			
SNP_32275_A_6045852	NC_021164.1	Ca_Kabuli_Chr05	6045852	AA	GG	GG	INTERGENIC			
SNP_32276_A_6045913	NC_021164.1	Ca_Kabuli_Chr05	6045913	AA	CC	CC	INTERGENIC			
SNP_32277_A_6045918	NC_021164.1	Ca_Kabuli_Chr05	6045918	CC	AA	AA	INTERGENIC			
SNP_32278_A_6045923	NC_021164.1	Ca_Kabuli_Chr05	6045923	TT	CC	CC	INTERGENIC			
SNP_32279_A_6045944	NC_021164.1	Ca_Kabuli_Chr05	6045944	AA	GG	GG	INTERGENIC			
SNP_32280_A_6045958	NC_021164.1	Ca_Kabuli_Chr05	6045958	TT	CC	CC	INTERGENIC			
SNP_32281_A_6045972	NC_021164.1	Ca_Kabuli_Chr05	6045972	AA	CC	CC	INTERGENIC			
SNP_32283_A_6200078	NC_021164.1	Ca_Kabuli_Chr05	6200078	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32285_A_6200128	NC_021164.1	Ca_Kabuli_Chr05	6200128	CC	TT	TT	INTERGENIC			
SNP_32286_A_6200225	NC_021164.1	Ca_Kabuli_Chr05	6200225	CC	TT	TT	INTERGENIC			
SNP_32287_A_6200270	NC_021164.1	Ca_Kabuli_Chr05	6200270	AA	GG	GG	INTERGENIC			
SNP_32288_A_6200347	NC_021164.1	Ca_Kabuli_Chr05	6200347	GG	TT	TT	INTERGENIC			
SNP_32289_A_6200375	NC_021164.1	Ca_Kabuli_Chr05	6200375	TT	GG	GG	INTERGENIC			
SNP_32290_A_6200468	NC_021164.1	Ca_Kabuli_Chr05	6200468	AA	GG	GG	INTERGENIC			
SNP_32291_A_6200526	NC_021164.1	Ca_Kabuli_Chr05	6200526	TT	AA	AA	INTERGENIC			
SNP_32292_A_6237171	NC_021164.1	Ca_Kabuli_Chr05	6237171	CC	TT	TT	INTERGENIC			
SNP_32293_A_6237181	NC_021164.1	Ca_Kabuli_Chr05	6237181	TT	CC	CC	INTERGENIC			
SNP_32294_A_6239343	NC_021164.1	Ca_Kabuli_Chr05	6239343	AA	GG	GG	INTERGENIC			
SNP_32295_A_6263717	NC_021164.1	Ca_Kabuli_Chr05	6263717	TT	CC	CC	INTERGENIC			
SNP_32296_A_6263756	NC_021164.1	Ca_Kabuli_Chr05	6263756	GG	AA	AA	INTERGENIC			
SNP_32297_A_6263884	NC_021164.1	Ca_Kabuli_Chr05	6263884	AA	GG	GG	INTERGENIC			
SNP_32298_A_6266666	NC_021164.1	Ca_Kabuli_Chr05	6266666	GG	AA	AA	INTERGENIC			
SNP_32299_A_6307578	NC_021164.1	Ca_Kabuli_Chr05	6307578	CC	TT	TT	INTRON	101505448	formin-like protein 20	
SNP_32300_A_6310483	NC_021164.1	Ca_Kabuli_Chr05	6310483	GG	CC	CC	INTRON	101505448	formin-like protein 20	
SNP_32301_A_6310498	NC_021164.1	Ca_Kabuli_Chr05	6310498	AA	GG	GG	INTRON	101505448	formin-like protein 20	
SNP_32302_A_6310740	NC_021164.1	Ca_Kabuli_Chr05	6310740	AA	CC	CC	INTRON	101505448	formin-like protein 20	
SNP_32303_A_6311053	NC_021164.1	Ca_Kabuli_Chr05	6311053	GG	AA	AA	INTRON	101505448	formin-like protein 20	
SNP_32304_A_6348212	NC_021164.1	Ca_Kabuli_Chr05	6348212	GG	TT	TT	INTERGENIC			
SNP_32305_A_6348242	NC_021164.1	Ca_Kabuli_Chr05	6348242	AA	TT	TT	INTERGENIC			
SNP_32306_A_6369197	NC_021164.1	Ca_Kabuli_Chr05	6369197	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32307_A_6369251	NC_021164.1	Ca_Kabuli_Chr05	6369251	GG	CC	CC	INTERGENIC			
SNP_32308_A_6369404	NC_021164.1	Ca_Kabuli_Chr05	6369404	GG	AA	AA	INTERGENIC			
SNP_32309_A_6369424	NC_021164.1	Ca_Kabuli_Chr05	6369424	TT	GG	GG	INTERGENIC			
SNP_32310_A_6369543	NC_021164.1	Ca_Kabuli_Chr05	6369543	AA	CC	CC	INTERGENIC			
SNP_32312_A_6369679	NC_021164.1	Ca_Kabuli_Chr05	6369679	CC	TT	TT	INTERGENIC			
SNP_32313_A_6369731	NC_021164.1	Ca_Kabuli_Chr05	6369731	GG	AA	AA	INTERGENIC			
SNP_32314_A_6369736	NC_021164.1	Ca_Kabuli_Chr05	6369736	CC	TT	TT	INTERGENIC			
SNP_32315_A_6369769	NC_021164.1	Ca_Kabuli_Chr05	6369769	GG	AA	AA	INTERGENIC			
SNP_32316_A_6369878	NC_021164.1	Ca_Kabuli_Chr05	6369878	CC	AA	AA	INTERGENIC			
SNP_32318_A_6416182	NC_021164.1	Ca_Kabuli_Chr05	6416182	CC	TT	TT	INTERGENIC			
SNP_32319_A_6416194	NC_021164.1	Ca_Kabuli_Chr05	6416194	GG	AA	AA	INTERGENIC			
SNP_32320_A_6416355	NC_021164.1	Ca_Kabuli_Chr05	6416355	AA	CC	CC	INTERGENIC			
SNP_32322_A_6416673	NC_021164.1	Ca_Kabuli_Chr05	6416673	AA	GG	GG	INTERGENIC			
SNP_32323_A_6416698	NC_021164.1	Ca_Kabuli_Chr05	6416698	TT	CC	CC	INTERGENIC			
SNP_32324_A_6416755	NC_021164.1	Ca_Kabuli_Chr05	6416755	GG	AA	AA	INTERGENIC			
SNP_32325_A_6416761	NC_021164.1	Ca_Kabuli_Chr05	6416761	GG	AA	AA	INTERGENIC			
SNP_32326_A_6416769	NC_021164.1	Ca_Kabuli_Chr05	6416769	TT	CC	CC	INTERGENIC			
SNP_32327_A_6420544	NC_021164.1	Ca_Kabuli_Chr05	6420544	TT	CC	CC	INTERGENIC			
SNP_32328_A_6421036	NC_021164.1	Ca_Kabuli_Chr05	6421036	TT	AA	AA	INTERGENIC			
SNP_32329_A_6421051	NC_021164.1	Ca_Kabuli_Chr05	6421051	TT	CC	CC	INTERGENIC			
SNP_32330_A_6421484	NC_021164.1	Ca_Kabuli_Chr05	6421484	AA	CC	CC	INTERGENIC			
SNP_32331_A_6421534	NC_021164.1	Ca_Kabuli_Chr05	6421534	TT	CC	CC	INTERGENIC			

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SNP_32332_A_6421573	NC_021164.1	Ca_Kabuli_Chr05	6421573	GG	AA	AA	INTERGENIC		
SNP_32333_A_6421773	NC_021164.1	Ca_Kabuli_Chr05	6421773	GG	AA	AA	INTERGENIC		
SNP_32334_A_6421867	NC_021164.1	Ca_Kabuli_Chr05	6421867	TT	GG	GG	INTERGENIC		
SNP_32335_A_6421934	NC_021164.1	Ca_Kabuli_Chr05	6421934	GG	TT	TT	INTERGENIC		
SNP_32336_A_6421942	NC_021164.1	Ca_Kabuli_Chr05	6421942	CC	TT	TT	INTERGENIC		
SNP_32337_A_6427618	NC_021164.1	Ca_Kabuli_Chr05	6427618	CC	AA	AA	INTERGENIC		
SNP_32338_A_6441376	NC_021164.1	Ca_Kabuli_Chr05	6441376	CC	TT	TT	INTRON	101507085	mediator-associated protein 2-like
SNP_32339_A_6478082	NC_021164.1	Ca_Kabuli_Chr05	6478082	TT	AA	AA	INTERGENIC		
SNP_32340_A_6478917	NC_021164.1	Ca_Kabuli_Chr05	6478917	TT	CC	CC	INTERGENIC		
SNP_32341_A_6494037	NC_021164.1	Ca_Kabuli_Chr05	6494037	TT	CC	CC	INTERGENIC		
SNP_32342_A_6494063	NC_021164.1	Ca_Kabuli_Chr05	6494063	AA	GG	GG	INTERGENIC		
SNP_32343_A_6494099	NC_021164.1	Ca_Kabuli_Chr05	6494099	GG	AA	AA	INTERGENIC		
SNP_32344_A_6494111	NC_021164.1	Ca_Kabuli_Chr05	6494111	TT	CC	CC	INTERGENIC		
SNP_32345_A_6494123	NC_021164.1	Ca_Kabuli_Chr05	6494123	AA	GG	GG	INTERGENIC		
SNP_32346_A_6494152	NC_021164.1	Ca_Kabuli_Chr05	6494152	TT	CC	CC	INTERGENIC		
SNP_32347_A_6494156	NC_021164.1	Ca_Kabuli_Chr05	6494156	TT	GG	GG	INTERGENIC		
SNP_32348_A_6494159	NC_021164.1	Ca_Kabuli_Chr05	6494159	TT	CC	CC	INTERGENIC		
SNP_32349_A_6494162	NC_021164.1	Ca_Kabuli_Chr05	6494162	TT	CC	CC	INTERGENIC		
SNP_32350_A_6494243	NC_021164.1	Ca_Kabuli_Chr05	6494243	AA	GG	GG	INTERGENIC		
SNP_32351_A_6494252	NC_021164.1	Ca_Kabuli_Chr05	6494252	CC	TT	TT	INTERGENIC		
SNP_32352_A_6494255	NC_021164.1	Ca_Kabuli_Chr05	6494255	AA	TT	TT	INTERGENIC		
SNP_32353_A_6494257	NC_021164.1	Ca_Kabuli_Chr05	6494257	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32354_A_6494263	NC_021164.1	Ca_Kabuli_Chr05	6494263	AA	GG	GG	INTERGENIC		
SNP_32355_A_6494494	NC_021164.1	Ca_Kabuli_Chr05	6494494	TT	CC	CC	INTERGENIC		
SNP_32356_A_6494518	NC_021164.1	Ca_Kabuli_Chr05	6494518	CC	TT	TT	INTERGENIC		
SNP_32357_A_6494520	NC_021164.1	Ca_Kabuli_Chr05	6494520	AA	GG	GG	INTERGENIC		
SNP_32358_A_6497027	NC_021164.1	Ca_Kabuli_Chr05	6497027	GG	CC	CC	NON_SYNONYMOUS_CODING	101512210	factor of DNA methylation 1-like
SNP_32359_A_6512942	NC_021164.1	Ca_Kabuli_Chr05	6512942	GG	AA	AA	INTERGENIC		
SNP_32360_A_6532183	NC_021164.1	Ca_Kabuli_Chr05	6532183	GG	AA	AA	INTERGENIC		
SNP_32362_A_6532709	NC_021164.1	Ca_Kabuli_Chr05	6532709	AA	TT	TT	INTERGENIC		
SNP_32363_A_6535226	NC_021164.1	Ca_Kabuli_Chr05	6535226	CC	TT	TT	INTERGENIC		
SNP_32364_A_6535261	NC_021164.1	Ca_Kabuli_Chr05	6535261	TT	CC	CC	INTERGENIC		
SNP_32365_A_6535322	NC_021164.1	Ca_Kabuli_Chr05	6535322	AA	GG	GG	INTERGENIC		
SNP_32366_A_6535340	NC_021164.1	Ca_Kabuli_Chr05	6535340	AA	TT	TT	INTERGENIC		
SNP_32367_A_6535346	NC_021164.1	Ca_Kabuli_Chr05	6535346	CC	TT	TT	INTERGENIC		
SNP_32368_A_6535353	NC_021164.1	Ca_Kabuli_Chr05	6535353	AA	GG	GG	INTERGENIC		
SNP_32369_A_6535385	NC_021164.1	Ca_Kabuli_Chr05	6535385	AA	CC	CC	INTERGENIC		
SNP_32370_A_6535391	NC_021164.1	Ca_Kabuli_Chr05	6535391	AA	GG	GG	INTERGENIC		
SNP_32371_A_6535439	NC_021164.1	Ca_Kabuli_Chr05	6535439	CC	TT	TT	INTERGENIC		
SNP_32373_A_6535594	NC_021164.1	Ca_Kabuli_Chr05	6535594	TT	CC	CC	INTERGENIC		
SNP_32374_A_6535747	NC_021164.1	Ca_Kabuli_Chr05	6535747	AA	CC	CC	INTERGENIC		
SNP_32375_A_6535765	NC_021164.1	Ca_Kabuli_Chr05	6535765	AA	TT	TT	INTERGENIC		
SNP_32376_A_6535780	NC_021164.1	Ca_Kabuli_Chr05	6535780	TT	AA	AA	INTERGENIC		
SNP_32377_A_6535835	NC_021164.1	Ca_Kabuli_Chr05	6535835	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32378_A_6535837	NC_021164.1	Ca_Kabuli_Chr05	6535837	AA	GG	GG	INTERGENIC			
SNP_32379_A_6535843	NC_021164.1	Ca_Kabuli_Chr05	6535843	AA	GG	GG	INTERGENIC			
SNP_32380_A_6535919	NC_021164.1	Ca_Kabuli_Chr05	6535919	AA	GG	GG	INTERGENIC			
SNP_32381_A_6535932	NC_021164.1	Ca_Kabuli_Chr05	6535932	AA	GG	GG	INTERGENIC			
SNP_32382_A_6535935	NC_021164.1	Ca_Kabuli_Chr05	6535935	TT	CC	CC	INTERGENIC			
SNP_32383_A_6536207	NC_021164.1	Ca_Kabuli_Chr05	6536207	AA	CC	CC	INTERGENIC			
SNP_32384_A_6536258	NC_021164.1	Ca_Kabuli_Chr05	6536258	CC	AA	AA	INTERGENIC			
SNP_32385_A_6536265	NC_021164.1	Ca_Kabuli_Chr05	6536265	AA	GG	GG	INTERGENIC			
SNP_32386_A_6536303	NC_021164.1	Ca_Kabuli_Chr05	6536303	AA	CC	CC	INTERGENIC			
SNP_32387_A_6536372	NC_021164.1	Ca_Kabuli_Chr05	6536372	GG	AA	AA	INTERGENIC			
SNP_32388_A_6536595	NC_021164.1	Ca_Kabuli_Chr05	6536595	AA	TT	TT	INTERGENIC			
SNP_32389_A_6536597	NC_021164.1	Ca_Kabuli_Chr05	6536597	CC	TT	TT	INTERGENIC			
SNP_32390_A_6536750	NC_021164.1	Ca_Kabuli_Chr05	6536750	GG	AA	AA	INTERGENIC			
SNP_32391_A_6536761	NC_021164.1	Ca_Kabuli_Chr05	6536761	CC	AA	AA	INTERGENIC			
SNP_32392_A_6590144	NC_021164.1	Ca_Kabuli_Chr05	6590144	CC	AA	AA	INTERGENIC			
SNP_32393_A_6590167	NC_021164.1	Ca_Kabuli_Chr05	6590167	GG	AA	AA	INTERGENIC			
SNP_32394_A_6590220	NC_021164.1	Ca_Kabuli_Chr05	6590220	AA	GG	GG	INTERGENIC			
SNP_32395_A_6590284	NC_021164.1	Ca_Kabuli_Chr05	6590284	GG	CC	CC	INTERGENIC			
SNP_32396_A_6590310	NC_021164.1	Ca_Kabuli_Chr05	6590310	GG	CC	CC	INTERGENIC			
SNP_32397_A_6590329	NC_021164.1	Ca_Kabuli_Chr05	6590329	CC	AA	AA	INTERGENIC			
SNP_32398_A_6590415	NC_021164.1	Ca_Kabuli_Chr05	6590415	CC	AA	AA	INTERGENIC			
SNP_32399_A_6590548	NC_021164.1	Ca_Kabuli_Chr05	6590548	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32400_A_6590755	NC_021164.1	Ca_Kabuli_Chr05	6590755	TT	AA	AA	INTERGENIC			
SNP_32401_A_6590821	NC_021164.1	Ca_Kabuli_Chr05	6590821	GG	AA	AA	INTERGENIC			
SNP_32402_A_6591050	NC_021164.1	Ca_Kabuli_Chr05	6591050	TT	GG	GG	INTERGENIC			
SNP_32403_A_6591087	NC_021164.1	Ca_Kabuli_Chr05	6591087	CC	TT	TT	INTERGENIC			
SNP_32404_A_6591493	NC_021164.1	Ca_Kabuli_Chr05	6591493	TT	CC	CC	INTERGENIC			
SNP_32405_A_6591590	NC_021164.1	Ca_Kabuli_Chr05	6591590	TT	GG	GG	INTERGENIC			
SNP_32406_A_6607382	NC_021164.1	Ca_Kabuli_Chr05	6607382	GG	TT	TT	INTERGENIC			
SNP_32407_A_6607386	NC_021164.1	Ca_Kabuli_Chr05	6607386	AA	CC	CC	INTERGENIC			
SNP_32408_A_6607387	NC_021164.1	Ca_Kabuli_Chr05	6607387	GG	AA	AA	INTERGENIC			
SNP_32409_A_6607388	NC_021164.1	Ca_Kabuli_Chr05	6607388	GG	AA	AA	INTERGENIC			
SNP_32410_A_6607971	NC_021164.1	Ca_Kabuli_Chr05	6607971	AA	CC	CC	INTERGENIC			
SNP_32411_A_6609715	NC_021164.1	Ca_Kabuli_Chr05	6609715	CC	GG	GG	INTERGENIC			
SNP_32412_A_6609993	NC_021164.1	Ca_Kabuli_Chr05	6609993	TT	CC	CC	INTERGENIC			
SNP_32413_A_6622833	NC_021164.1	Ca_Kabuli_Chr05	6622833	AA	CC	CC	INTERGENIC			
SNP_32414_A_6637303	NC_021164.1	Ca_Kabuli_Chr05	6637303	TT	CC	CC	INTERGENIC			
SNP_32415_A_6646569	NC_021164.1	Ca_Kabuli_Chr05	6646569	CC	GG	GG	INTERGENIC			
SNP_32416_A_6646887	NC_021164.1	Ca_Kabuli_Chr05	6646887	GG	AA	AA	INTERGENIC			
SNP_32417_A_6646910	NC_021164.1	Ca_Kabuli_Chr05	6646910	AA	TT	TT	INTERGENIC			
SNP_32418_A_6646921	NC_021164.1	Ca_Kabuli_Chr05	6646921	GG	TT	TT	INTERGENIC			
SNP_32419_A_6647033	NC_021164.1	Ca_Kabuli_Chr05	6647033	TT	GG	GG	INTERGENIC			
SNP_32420_A_6647237	NC_021164.1	Ca_Kabuli_Chr05	6647237	TT	GG	GG	INTERGENIC			
SNP_32421_A_6647311	NC_021164.1	Ca_Kabuli_Chr05	6647311	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32422_A_6647844	NC_021164.1	Ca_Kabuli_Chr05	6647844	CC	TT	TT	INTERGENIC			
SNP_32423_A_6647860	NC_021164.1	Ca_Kabuli_Chr05	6647860	AA	TT	TT	INTERGENIC			
SNP_32424_A_6647861	NC_021164.1	Ca_Kabuli_Chr05	6647861	CC	TT	TT	INTERGENIC			
SNP_32425_A_6647890	NC_021164.1	Ca_Kabuli_Chr05	6647890	GG	CC	CC	INTERGENIC			
SNP_32426_A_6648795	NC_021164.1	Ca_Kabuli_Chr05	6648795	AA	TT	TT	INTERGENIC			
SNP_32427_A_6674875	NC_021164.1	Ca_Kabuli_Chr05	6674875	GG	AA	AA	INTERGENIC			
SNP_32428_A_6674876	NC_021164.1	Ca_Kabuli_Chr05	6674876	TT	AA	AA	INTERGENIC			
SNP_32429_A_6674882	NC_021164.1	Ca_Kabuli_Chr05	6674882	GG	CC	CC	INTERGENIC			
SNP_32430_A_6674895	NC_021164.1	Ca_Kabuli_Chr05	6674895	GG	AA	AA	INTERGENIC			
SNP_32431_A_6674988	NC_021164.1	Ca_Kabuli_Chr05	6674988	CC	TT	TT	INTERGENIC			
SNP_32432_A_6675011	NC_021164.1	Ca_Kabuli_Chr05	6675011	CC	GG	GG	INTERGENIC			
SNP_32433_A_6675073	NC_021164.1	Ca_Kabuli_Chr05	6675073	AA	TT	TT	INTERGENIC			
SNP_32434_A_6675183	NC_021164.1	Ca_Kabuli_Chr05	6675183	AA	GG	GG	INTERGENIC			
SNP_32435_A_6675300	NC_021164.1	Ca_Kabuli_Chr05	6675300	CC	GG	GG	INTERGENIC			
SNP_32436_A_6675342	NC_021164.1	Ca_Kabuli_Chr05	6675342	GG	TT	TT	INTERGENIC			
SNP_32437_A_6685531	NC_021164.1	Ca_Kabuli_Chr05	6685531	AA	GG	GG	INTERGENIC			
SNP_32438_A_6720815	NC_021164.1	Ca_Kabuli_Chr05	6720815	CC	TT	TT	INTERGENIC			
SNP_32439_A_6723702	NC_021164.1	Ca_Kabuli_Chr05	6723702	GG	TT	TT	INTERGENIC			
SNP_32440_A_6723706	NC_021164.1	Ca_Kabuli_Chr05	6723706	TT	CC	CC	INTERGENIC			
SNP_32441_A_6723707	NC_021164.1	Ca_Kabuli_Chr05	6723707	TT	AA	AA	INTERGENIC			
SNP_32442_A_6723718	NC_021164.1	Ca_Kabuli_Chr05	6723718	AA	TT	TT	INTERGENIC			
SNP_32444_A_6739672	NC_021164.1	Ca_Kabuli_Chr05	6739672	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32445_A_6739681	NC_021164.1	Ca_Kabuli_Chr05	6739681	TT	CC	CC	INTERGENIC			
SNP_32446_A_6739719	NC_021164.1	Ca_Kabuli_Chr05	6739719	CC	TT	TT	INTERGENIC			
SNP_32447_A_6739736	NC_021164.1	Ca_Kabuli_Chr05	6739736	CC	TT	TT	INTERGENIC			
SNP_32448_A_6739788	NC_021164.1	Ca_Kabuli_Chr05	6739788	TT	AA	AA	INTERGENIC			
SNP_32449_A_6739921	NC_021164.1	Ca_Kabuli_Chr05	6739921	TT	CC	CC	INTERGENIC			
SNP_32450_A_6740034	NC_021164.1	Ca_Kabuli_Chr05	6740034	AA	GG	GG	INTERGENIC			
SNP_32451_A_6740080	NC_021164.1	Ca_Kabuli_Chr05	6740080	CC	TT	TT	INTERGENIC			
SNP_32452_A_6740120	NC_021164.1	Ca_Kabuli_Chr05	6740120	GG	AA	AA	INTERGENIC			
SNP_32453_A_6740122	NC_021164.1	Ca_Kabuli_Chr05	6740122	TT	GG	GG	INTERGENIC			
SNP_32454_A_6749930	NC_021164.1	Ca_Kabuli_Chr05	6749930	GG	AA	AA	URR	101512843	Unknown function	
SNP_32455_A_6754055	NC_021164.1	Ca_Kabuli_Chr05	6754055	TT	CC	CC	INTERGENIC			
SNP_32456_A_6761059	NC_021164.1	Ca_Kabuli_Chr05	6761059	CC	AA	AA	INTERGENIC			
SNP_32457_A_6763918	NC_021164.1	Ca_Kabuli_Chr05	6763918	AA	GG	GG	INTERGENIC			
SNP_32459_A_6764239	NC_021164.1	Ca_Kabuli_Chr05	6764239	CC	TT	TT	INTERGENIC			
SNP_32460_A_6764258	NC_021164.1	Ca_Kabuli_Chr05	6764258	TT	AA	AA	INTERGENIC			
SNP_32461_A_6764313	NC_021164.1	Ca_Kabuli_Chr05	6764313	CC	TT	TT	INTERGENIC			
SNP_32463_A_6765436	NC_021164.1	Ca_Kabuli_Chr05	6765436	AA	GG	GG	INTERGENIC			
SNP_32464_A_6769183	NC_021164.1	Ca_Kabuli_Chr05	6769183	GG	AA	AA	INTERGENIC			
SNP_32465_A_6769194	NC_021164.1	Ca_Kabuli_Chr05	6769194	TT	CC	CC	INTERGENIC			
SNP_32466_A_6771855	NC_021164.1	Ca_Kabuli_Chr05	6771855	CC	TT	TT	INTERGENIC			
SNP_32467_A_6771981	NC_021164.1	Ca_Kabuli_Chr05	6771981	TT	CC	CC	INTERGENIC			
SNP_32468_A_6772186	NC_021164.1	Ca_Kabuli_Chr05	6772186	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32469_A_6772228	NC_021164.1	Ca_Kabuli_Chr05	6772228	TT	GG	GG	INTERGENIC			
SNP_32471_A_6772313	NC_021164.1	Ca_Kabuli_Chr05	6772313	TT	CC	CC	INTERGENIC			
SNP_32472_A_6772366	NC_021164.1	Ca_Kabuli_Chr05	6772366	CC	TT	TT	INTERGENIC			
SNP_32473_A_6772374	NC_021164.1	Ca_Kabuli_Chr05	6772374	TT	CC	CC	INTERGENIC			
SNP_32475_A_6772502	NC_021164.1	Ca_Kabuli_Chr05	6772502	AA	CC	CC	INTERGENIC			
SNP_32476_A_6772506	NC_021164.1	Ca_Kabuli_Chr05	6772506	CC	GG	GG	INTERGENIC			
SNP_32477_A_6772577	NC_021164.1	Ca_Kabuli_Chr05	6772577	CC	GG	GG	INTERGENIC			
SNP_32478_A_6772781	NC_021164.1	Ca_Kabuli_Chr05	6772781	TT	CC	CC	INTERGENIC			
SNP_32479_A_6772856	NC_021164.1	Ca_Kabuli_Chr05	6772856	GG	AA	AA	INTERGENIC			
SNP_32480_A_6772898	NC_021164.1	Ca_Kabuli_Chr05	6772898	CC	TT	TT	INTERGENIC			
SNP_32481_A_6772974	NC_021164.1	Ca_Kabuli_Chr05	6772974	GG	AA	AA	INTERGENIC			
SNP_32482_A_6772983	NC_021164.1	Ca_Kabuli_Chr05	6772983	TT	CC	CC	INTERGENIC			
SNP_32483_A_6773134	NC_021164.1	Ca_Kabuli_Chr05	6773134	AA	GG	GG	INTERGENIC			
SNP_32484_A_6773348	NC_021164.1	Ca_Kabuli_Chr05	6773348	TT	AA	AA	INTERGENIC			
SNP_32486_A_6773405	NC_021164.1	Ca_Kabuli_Chr05	6773405	GG	TT	TT	INTERGENIC			
SNP_32487_A_6773487	NC_021164.1	Ca_Kabuli_Chr05	6773487	AA	GG	GG	INTERGENIC			
SNP_32489_A_6791996	NC_021164.1	Ca_Kabuli_Chr05	6791996	TT	GG	GG	INTERGENIC			
SNP_32490_A_6825812	NC_021164.1	Ca_Kabuli_Chr05	6825812	AA	TT	TT	INTERGENIC			
SNP_32491_A_6825835	NC_021164.1	Ca_Kabuli_Chr05	6825835	CC	TT	TT	INTERGENIC			
SNP_32492_A_6825838	NC_021164.1	Ca_Kabuli_Chr05	6825838	AA	TT	TT	INTERGENIC			
SNP_32493_A_6825842	NC_021164.1	Ca_Kabuli_Chr05	6825842	TT	AA	AA	INTERGENIC			
SNP_32494_A_6826368	NC_021164.1	Ca_Kabuli_Chr05	6826368	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32495_A_6830190	NC_021164.1	Ca_Kabuli_Chr05	6830190	GG	AA	AA	INTERGENIC			
SNP_32496_A_6830206	NC_021164.1	Ca_Kabuli_Chr05	6830206	CC	GG	GG	INTERGENIC			
SNP_32497_A_6830293	NC_021164.1	Ca_Kabuli_Chr05	6830293	TT	GG	GG	INTERGENIC			
SNP_32498_A_6830429	NC_021164.1	Ca_Kabuli_Chr05	6830429	TT	GG	GG	INTERGENIC			
SNP_32499_A_6830446	NC_021164.1	Ca_Kabuli_Chr05	6830446	CC	TT	TT	INTERGENIC			
SNP_32500_A_6830578	NC_021164.1	Ca_Kabuli_Chr05	6830578	CC	TT	TT	INTERGENIC			
SNP_32501_A_6830589	NC_021164.1	Ca_Kabuli_Chr05	6830589	CC	TT	TT	INTERGENIC			
SNP_32502_A_6830679	NC_021164.1	Ca_Kabuli_Chr05	6830679	CC	TT	TT	INTERGENIC			
SNP_32503_A_6830797	NC_021164.1	Ca_Kabuli_Chr05	6830797	AA	GG	GG	INTERGENIC			
SNP_32504_A_6830875	NC_021164.1	Ca_Kabuli_Chr05	6830875	TT	GG	GG	INTERGENIC			
SNP_32505_A_6830893	NC_021164.1	Ca_Kabuli_Chr05	6830893	AA	GG	GG	INTERGENIC			
SNP_32506_A_6830920	NC_021164.1	Ca_Kabuli_Chr05	6830920	AA	GG	GG	INTERGENIC			
SNP_32507_A_6830930	NC_021164.1	Ca_Kabuli_Chr05	6830930	CC	AA	AA	INTERGENIC			
SNP_32508_A_6830933	NC_021164.1	Ca_Kabuli_Chr05	6830933	CC	TT	TT	INTERGENIC			
SNP_32509_A_6830948	NC_021164.1	Ca_Kabuli_Chr05	6830948	AA	GG	GG	INTERGENIC			
SNP_32510_A_6831383	NC_021164.1	Ca_Kabuli_Chr05	6831383	AA	GG	GG	INTERGENIC			
SNP_32511_A_6831456	NC_021164.1	Ca_Kabuli_Chr05	6831456	AA	GG	GG	INTERGENIC			
SNP_32512_A_6831507	NC_021164.1	Ca_Kabuli_Chr05	6831507	GG	AA	AA	INTERGENIC			
SNP_32513_A_6831715	NC_021164.1	Ca_Kabuli_Chr05	6831715	AA	GG	GG	INTERGENIC			
SNP_32514_A_6832854	NC_021164.1	Ca_Kabuli_Chr05	6832854	TT	CC	CC	INTERGENIC			
SNP_32515_A_6832855	NC_021164.1	Ca_Kabuli_Chr05	6832855	CC	TT	TT	INTERGENIC			
SNP_32516_A_6832958	NC_021164.1	Ca_Kabuli_Chr05	6832958	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32517_A_6832968	NC_021164.1	Ca_Kabuli_Chr05	6832968	TT	AA	AA	INTERGENIC			
SNP_32518_A_6832972	NC_021164.1	Ca_Kabuli_Chr05	6832972	TT	GG	GG	INTERGENIC			
SNP_32520_A_6833259	NC_021164.1	Ca_Kabuli_Chr05	6833259	AA	CC	CC	INTERGENIC			
SNP_32521_A_6833658	NC_021164.1	Ca_Kabuli_Chr05	6833658	TT	AA	AA	INTERGENIC			
SNP_32523_A_6833713	NC_021164.1	Ca_Kabuli_Chr05	6833713	GG	CC	CC	INTERGENIC			
SNP_32524_A_6833769	NC_021164.1	Ca_Kabuli_Chr05	6833769	CC	TT	TT	INTERGENIC			
SNP_32526_A_6833877	NC_021164.1	Ca_Kabuli_Chr05	6833877	GG	AA	AA	INTERGENIC			
SNP_32530_A_6834319	NC_021164.1	Ca_Kabuli_Chr05	6834319	AA	TT	TT	INTERGENIC			
SNP_32531_A_6834384	NC_021164.1	Ca_Kabuli_Chr05	6834384	CC	AA	AA	INTERGENIC			
SNP_32532_A_6834393	NC_021164.1	Ca_Kabuli_Chr05	6834393	TT	GG	GG	INTERGENIC			
SNP_32533_A_6834577	NC_021164.1	Ca_Kabuli_Chr05	6834577	GG	AA	AA	INTERGENIC			
SNP_32534_A_6834613	NC_021164.1	Ca_Kabuli_Chr05	6834613	AA	TT	TT	INTERGENIC			
SNP_32535_A_6834614	NC_021164.1	Ca_Kabuli_Chr05	6834614	CC	TT	TT	INTERGENIC			
SNP_32536_A_6834624	NC_021164.1	Ca_Kabuli_Chr05	6834624	GG	TT	TT	INTERGENIC			
SNP_32537_A_6834675	NC_021164.1	Ca_Kabuli_Chr05	6834675	AA	CC	CC	INTERGENIC			
SNP_32538_A_6834690	NC_021164.1	Ca_Kabuli_Chr05	6834690	TT	CC	CC	INTERGENIC			
SNP_32539_A_6834698	NC_021164.1	Ca_Kabuli_Chr05	6834698	AA	CC	CC	INTERGENIC			
SNP_32541_A_6834755	NC_021164.1	Ca_Kabuli_Chr05	6834755	AA	TT	TT	INTERGENIC			
SNP_32542_A_6834775	NC_021164.1	Ca_Kabuli_Chr05	6834775	TT	AA	AA	INTERGENIC			
SNP_32543_A_6834835	NC_021164.1	Ca_Kabuli_Chr05	6834835	TT	AA	AA	INTERGENIC			
SNP_32544_A_6835015	NC_021164.1	Ca_Kabuli_Chr05	6835015	TT	GG	GG	INTERGENIC			
SNP_32545_A_6835152	NC_021164.1	Ca_Kabuli_Chr05	6835152	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32546_A_6835200	NC_021164.1	Ca_Kabuli_Chr05	6835200	TT	CC	CC	INTERGENIC			
SNP_32547_A_6835399	NC_021164.1	Ca_Kabuli_Chr05	6835399	AA	TT	TT	INTERGENIC			
SNP_32548_A_6835690	NC_021164.1	Ca_Kabuli_Chr05	6835690	TT	AA	AA	INTERGENIC			
SNP_32549_A_6835695	NC_021164.1	Ca_Kabuli_Chr05	6835695	TT	GG	GG	INTERGENIC			
SNP_32550_A_6835750	NC_021164.1	Ca_Kabuli_Chr05	6835750	GG	AA	AA	INTERGENIC			
SNP_32551_A_6835751	NC_021164.1	Ca_Kabuli_Chr05	6835751	TT	CC	CC	INTERGENIC			
SNP_32552_A_6835784	NC_021164.1	Ca_Kabuli_Chr05	6835784	GG	AA	AA	INTERGENIC			
SNP_32553_A_6835863	NC_021164.1	Ca_Kabuli_Chr05	6835863	TT	CC	CC	INTERGENIC			
SNP_32554_A_6836020	NC_021164.1	Ca_Kabuli_Chr05	6836020	CC	TT	TT	INTERGENIC			
SNP_32555_A_6836059	NC_021164.1	Ca_Kabuli_Chr05	6836059	TT	CC	CC	INTERGENIC			
SNP_32556_A_6836141	NC_021164.1	Ca_Kabuli_Chr05	6836141	AA	GG	GG	INTERGENIC			
SNP_32557_A_6836160	NC_021164.1	Ca_Kabuli_Chr05	6836160	TT	CC	CC	INTERGENIC			
SNP_32558_A_6836214	NC_021164.1	Ca_Kabuli_Chr05	6836214	CC	GG	GG	INTERGENIC			
SNP_32559_A_6836350	NC_021164.1	Ca_Kabuli_Chr05	6836350	AA	TT	TT	INTERGENIC			
SNP_32560_A_6836450	NC_021164.1	Ca_Kabuli_Chr05	6836450	CC	GG	GG	INTERGENIC			
SNP_32561_A_6836513	NC_021164.1	Ca_Kabuli_Chr05	6836513	CC	TT	TT	INTERGENIC			
SNP_32562_A_6836567	NC_021164.1	Ca_Kabuli_Chr05	6836567	CC	TT	TT	INTERGENIC			
SNP_32563_A_6836571	NC_021164.1	Ca_Kabuli_Chr05	6836571	AA	CC	CC	INTERGENIC			
SNP_32564_A_6836615	NC_021164.1	Ca_Kabuli_Chr05	6836615	AA	GG	GG	INTERGENIC			
SNP_32565_A_6837180	NC_021164.1	Ca_Kabuli_Chr05	6837180	TT	CC	CC	INTERGENIC			
SNP_32566_A_6837235	NC_021164.1	Ca_Kabuli_Chr05	6837235	GG	AA	AA	INTERGENIC			
SNP_32567_A_6837326	NC_021164.1	Ca_Kabuli_Chr05	6837326	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32568_A_6837352	NC_021164.1	Ca_Kabuli_Chr05	6837352	AA	CC	CC	INTERGENIC		
SNP_32569_A_6837767	NC_021164.1	Ca_Kabuli_Chr05	6837767	CC	GG	GG	INTERGENIC		
SNP_32570_A_6837905	NC_021164.1	Ca_Kabuli_Chr05	6837905	GG	AA	AA	INTERGENIC		
SNP_32571_A_6837956	NC_021164.1	Ca_Kabuli_Chr05	6837956	AA	GG	GG	INTERGENIC		
SNP_32573_A_6838027	NC_021164.1	Ca_Kabuli_Chr05	6838027	AA	GG	GG	INTERGENIC		
SNP_32574_A_6838074	NC_021164.1	Ca_Kabuli_Chr05	6838074	GG	AA	AA	INTERGENIC		
SNP_32575_A_6850056	NC_021164.1	Ca_Kabuli_Chr05	6850056	GG	AA	AA	INTERGENIC		
SNP_32576_A_6850068	NC_021164.1	Ca_Kabuli_Chr05	6850068	TT	GG	GG	INTERGENIC		
SNP_32577_A_6850082	NC_021164.1	Ca_Kabuli_Chr05	6850082	AA	GG	GG	INTERGENIC		
SNP_32578_A_6872226	NC_021164.1	Ca_Kabuli_Chr05	6872226	GG	CC	CC	DRR	101490061	uncharacterized LOC101490061
SNP_32579_A_6872262	NC_021164.1	Ca_Kabuli_Chr05	6872262	CC	TT	TT	DRR	101490061	uncharacterized LOC101490061
SNP_32580_A_6872417	NC_021164.1	Ca_Kabuli_Chr05	6872417	GG	AA	AA	DRR	101490061	uncharacterized LOC101490061
SNP_32582_A_6875426	NC_021164.1	Ca_Kabuli_Chr05	6875426	AA	GG	GG	URR	101490061	uncharacterized LOC101490061
SNP_32583_A_6896735	NC_021164.1	Ca_Kabuli_Chr05	6896735	GG	AA	AA	INTERGENIC		
SNP_32584_A_6897083	NC_021164.1	Ca_Kabuli_Chr05	6897083	TT	GG	GG	INTERGENIC		
SNP_32585_A_6897825	NC_021164.1	Ca_Kabuli_Chr05	6897825	TT	GG	GG	INTERGENIC		
SNP_32586_A_6897939	NC_021164.1	Ca_Kabuli_Chr05	6897939	AA	TT	TT	INTERGENIC		
SNP_32587_A_6897958	NC_021164.1	Ca_Kabuli_Chr05	6897958	GG	AA	AA	INTERGENIC		
SNP_32588_A_6906431	NC_021164.1	Ca_Kabuli_Chr05	6906431	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32589_A_6906454	NC_021164.1	Ca_Kabuli_Chr05	6906454	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32590_A_6906629	NC_021164.1	Ca_Kabuli_Chr05	6906629	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32591_A_6906636	NC_021164.1	Ca_Kabuli_Chr05	6906636	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32592_A_6906665	NC_021164.1	Ca_Kabuli_Chr05	6906665	CC	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32593_A_6906755	NC_021164.1	Ca_Kabuli_Chr05	6906755	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32594_A_6906930	NC_021164.1	Ca_Kabuli_Chr05	6906930	GG	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32595_A_6907109	NC_021164.1	Ca_Kabuli_Chr05	6907109	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32596_A_6907236	NC_021164.1	Ca_Kabuli_Chr05	6907236	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32597_A_6907237	NC_021164.1	Ca_Kabuli_Chr05	6907237	TT	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32598_A_6907329	NC_021164.1	Ca_Kabuli_Chr05	6907329	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32599_A_6907335	NC_021164.1	Ca_Kabuli_Chr05	6907335	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32600_A_6907399	NC_021164.1	Ca_Kabuli_Chr05	6907399	GG	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32601_A_6907403	NC_021164.1	Ca_Kabuli_Chr05	6907403	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32602_A_6907407	NC_021164.1	Ca_Kabuli_Chr05	6907407	AA	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32603_A_6907409	NC_021164.1	Ca_Kabuli_Chr05	6907409	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32604_A_6907474	NC_021164.1	Ca_Kabuli_Chr05	6907474	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32605_A_6907524	NC_021164.1	Ca_Kabuli_Chr05	6907524	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32606_A_6907546	NC_021164.1	Ca_Kabuli_Chr05	6907546	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32608_A_6907661	NC_021164.1	Ca_Kabuli_Chr05	6907661	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32609_A_6907712	NC_021164.1	Ca_Kabuli_Chr05	6907712	GG	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32610_A_6907713	NC_021164.1	Ca_Kabuli_Chr05	6907713	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32611_A_6907720	NC_021164.1	Ca_Kabuli_Chr05	6907720	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32612_A_6907781	NC_021164.1	Ca_Kabuli_Chr05	6907781	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32614_A_6908161	NC_021164.1	Ca_Kabuli_Chr05	6908161	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32616_A_6908242	NC_021164.1	Ca_Kabuli_Chr05	6908242	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32618_A_6909659	NC_021164.1	Ca_Kabuli_Chr05	6909659	AA	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32619_A_6909720	NC_021164.1	Ca_Kabuli_Chr05	6909720	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32620_A_6909722	NC_021164.1	Ca_Kabuli_Chr05	6909722	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32621_A_6909725	NC_021164.1	Ca_Kabuli_Chr05	6909725	TT	CC	CC	INTRON	101490721	uncharacterized LOC101490721
SNP_32622_A_6909817	NC_021164.1	Ca_Kabuli_Chr05	6909817	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32623_A_6909903	NC_021164.1	Ca_Kabuli_Chr05	6909903	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32624_A_6909912	NC_021164.1	Ca_Kabuli_Chr05	6909912	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32626_A_6911850	NC_021164.1	Ca_Kabuli_Chr05	6911850	CC	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32627_A_6912482	NC_021164.1	Ca_Kabuli_Chr05	6912482	CC	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32628_A_6912639	NC_021164.1	Ca_Kabuli_Chr05	6912639	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32629_A_6912653	NC_021164.1	Ca_Kabuli_Chr05	6912653	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32630_A_6913570	NC_021164.1	Ca_Kabuli_Chr05	6913570	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32631_A_6913609	NC_021164.1	Ca_Kabuli_Chr05	6913609	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32632_A_6913632	NC_021164.1	Ca_Kabuli_Chr05	6913632	CC	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32633_A_6913835	NC_021164.1	Ca_Kabuli_Chr05	6913835	TT	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32634_A_6913853	NC_021164.1	Ca_Kabuli_Chr05	6913853	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32635_A_6913861	NC_021164.1	Ca_Kabuli_Chr05	6913861	TT	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32636_A_6914049	NC_021164.1	Ca_Kabuli_Chr05	6914049	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32637_A_6914052	NC_021164.1	Ca_Kabuli_Chr05	6914052	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32638_A_6914094	NC_021164.1	Ca_Kabuli_Chr05	6914094	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32639_A_6914631	NC_021164.1	Ca_Kabuli_Chr05	6914631	GG	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32640_A_6914729	NC_021164.1	Ca_Kabuli_Chr05	6914729	AA	GG	GG	INTRON	101490721	uncharacterized LOC101490721

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32641_A_6914776	NC_021164.1	Ca_Kabuli_Chr05	6914776	CC	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32642_A_6914793	NC_021164.1	Ca_Kabuli_Chr05	6914793	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32643_A_6914913	NC_021164.1	Ca_Kabuli_Chr05	6914913	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32644_A_6914934	NC_021164.1	Ca_Kabuli_Chr05	6914934	GG	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32645_A_6915081	NC_021164.1	Ca_Kabuli_Chr05	6915081	CC	TT	TT	INTRON	101490721	uncharacterized LOC101490721
SNP_32646_A_6915088	NC_021164.1	Ca_Kabuli_Chr05	6915088	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32647_A_6915112	NC_021164.1	Ca_Kabuli_Chr05	6915112	GG	AA	AA	INTRON	101490721	uncharacterized LOC101490721
SNP_32648_A_6915173	NC_021164.1	Ca_Kabuli_Chr05	6915173	TT	GG	GG	INTRON	101490721	uncharacterized LOC101490721
SNP_32649_A_6940550	NC_021164.1	Ca_Kabuli_Chr05	6940550	AA	TT	TT	URR	101513169	transmembrane protein 56-B-like
SNP_32651_A_6987107	NC_021164.1	Ca_Kabuli_Chr05	6987107	GG	TT	TT	INTERGENIC		
SNP_32652_A_7003872	NC_021164.1	Ca_Kabuli_Chr05	7003872	TT	CC	CC	INTERGENIC		
SNP_32653_A_7019184	NC_021164.1	Ca_Kabuli_Chr05	7019184	TT	AA	AA	INTERGENIC		
SNP_32654_A_7019185	NC_021164.1	Ca_Kabuli_Chr05	7019185	AA	TT	TT	INTERGENIC		
SNP_32655_A_7021637	NC_021164.1	Ca_Kabuli_Chr05	7021637	AA	GG	GG	INTERGENIC		
SNP_32656_A_7035822	NC_021164.1	Ca_Kabuli_Chr05	7035822	CC	GG	GG	INTERGENIC		
SNP_32657_A_7037494	NC_021164.1	Ca_Kabuli_Chr05	7037494	TT	AA	AA	INTERGENIC		
SNP_32658_A_7037505	NC_021164.1	Ca_Kabuli_Chr05	7037505	AA	GG	GG	INTERGENIC		
SNP_32659_A_7092556	NC_021164.1	Ca_Kabuli_Chr05	7092556	TT	CC	CC	INTERGENIC		
SNP_32660_A_7092589	NC_021164.1	Ca_Kabuli_Chr05	7092589	AA	GG	GG	INTERGENIC		
SNP_32661_A_7092612	NC_021164.1	Ca_Kabuli_Chr05	7092612	TT	CC	CC	INTERGENIC		
SNP_32662_A_7092636	NC_021164.1	Ca_Kabuli_Chr05	7092636	AA	TT	TT	INTERGENIC		
SNP_32663_A_7092763	NC_021164.1	Ca_Kabuli_Chr05	7092763	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32664_A_7092866	NC_021164.1	Ca_Kabuli_Chr05	7092866	TT	CC	CC	INTERGENIC		
SNP_32665_A_7092870	NC_021164.1	Ca_Kabuli_Chr05	7092870	AA	GG	GG	INTERGENIC		
SNP_32666_A_7093141	NC_021164.1	Ca_Kabuli_Chr05	7093141	GG	AA	AA	INTERGENIC		
SNP_32667_A_7093148	NC_021164.1	Ca_Kabuli_Chr05	7093148	TT	CC	CC	INTERGENIC		
SNP_32668_A_7102951	NC_021164.1	Ca_Kabuli_Chr05	7102951	TT	AA	AA	INTERGENIC		
SNP_32669_A_7107342	NC_021164.1	Ca_Kabuli_Chr05	7107342	AA	CC	CC	INTERGENIC		
SNP_32670_A_7120141	NC_021164.1	Ca_Kabuli_Chr05	7120141	CC	TT	TT	INTERGENIC		
SNP_32671_A_7123642	NC_021164.1	Ca_Kabuli_Chr05	7123642	AA	GG	GG	INTERGENIC		
SNP_32672_A_7125218	NC_021164.1	Ca_Kabuli_Chr05	7125218	GG	TT	TT	INTERGENIC		
SNP_32673_A_7125227	NC_021164.1	Ca_Kabuli_Chr05	7125227	AA	CC	CC	INTERGENIC		
SNP_32674_A_7125229	NC_021164.1	Ca_Kabuli_Chr05	7125229	GG	AA	AA	INTERGENIC		
SNP_32675_A_7125260	NC_021164.1	Ca_Kabuli_Chr05	7125260	GG	AA	AA	INTERGENIC		
SNP_32676_A_7125503	NC_021164.1	Ca_Kabuli_Chr05	7125503	TT	CC	CC	INTERGENIC		
SNP_32677_A_7175024	NC_021164.1	Ca_Kabuli_Chr05	7175024	AA	GG	GG	INTRON	101491676	serine/threonine-protein phosphatase 7 long form homolog
SNP_32678_A_7221850	NC_021164.1	Ca_Kabuli_Chr05	7221850	AA	CC	CC	INTRON	101515239	reticulon-like protein B8
SNP_32679_A_7226874	NC_021164.1	Ca_Kabuli_Chr05	7226874	CC	AA	AA	INTERGENIC		
SNP_32680_A_7226893	NC_021164.1	Ca_Kabuli_Chr05	7226893	AA	GG	GG	INTERGENIC		
SNP_32681_A_7227493	NC_021164.1	Ca_Kabuli_Chr05	7227493	AA	GG	GG	INTERGENIC		
SNP_32682_A_7227497	NC_021164.1	Ca_Kabuli_Chr05	7227497	TT	GG	GG	INTERGENIC		
SNP_32683_A_7227651	NC_021164.1	Ca_Kabuli_Chr05	7227651	AA	CC	CC	INTERGENIC		
SNP_32684_A_7227719	NC_021164.1	Ca_Kabuli_Chr05	7227719	GG	CC	CC	INTERGENIC		
SNP_32685_A_7227740	NC_021164.1	Ca_Kabuli_Chr05	7227740	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32686_A_7236239	NC_021164.1	Ca_Kabuli_Chr05	7236239	AA	GG	GG	INTERGENIC		
SNP_32687_A_7272184	NC_021164.1	Ca_Kabuli_Chr05	7272184	CC	TT	TT	URR	101491987	protein YLS9-like
SNP_32688_A_7297481	NC_021164.1	Ca_Kabuli_Chr05	7297481	TT	CC	CC	NON_SYNONYMOUS_CODING	id97633	Unknown function
SNP_32689_A_7317569	NC_021164.1	Ca_Kabuli_Chr05	7317569	TT	CC	CC	INTERGENIC		
SNP_32690_A_7317788	NC_021164.1	Ca_Kabuli_Chr05	7317788	TT	GG	GG	INTERGENIC		
SNP_32691_A_7326932	NC_021164.1	Ca_Kabuli_Chr05	7326932	AA	TT	TT	INTERGENIC		
SNP_32692_A_7327010	NC_021164.1	Ca_Kabuli_Chr05	7327010	AA	GG	GG	INTERGENIC		
SNP_32693_A_7327274	NC_021164.1	Ca_Kabuli_Chr05	7327274	AA	GG	GG	INTERGENIC		
SNP_32694_A_7359142	NC_021164.1	Ca_Kabuli_Chr05	7359142	AA	GG	GG	INTERGENIC		
SNP_32695_A_7359185	NC_021164.1	Ca_Kabuli_Chr05	7359185	TT	CC	CC	INTERGENIC		
SNP_32696_A_7359222	NC_021164.1	Ca_Kabuli_Chr05	7359222	TT	CC	CC	INTERGENIC		
SNP_32697_A_7359325	NC_021164.1	Ca_Kabuli_Chr05	7359325	GG	CC	CC	INTERGENIC		
SNP_32698_A_7359550	NC_021164.1	Ca_Kabuli_Chr05	7359550	TT	GG	GG	INTERGENIC		
SNP_32699_A_7359610	NC_021164.1	Ca_Kabuli_Chr05	7359610	AA	GG	GG	INTERGENIC		
SNP_32700_A_7359725	NC_021164.1	Ca_Kabuli_Chr05	7359725	GG	TT	TT	INTERGENIC		
SNP_32701_A_7359738	NC_021164.1	Ca_Kabuli_Chr05	7359738	TT	GG	GG	INTERGENIC		
SNP_32702_A_7385679	NC_021164.1	Ca_Kabuli_Chr05	7385679	TT	AA	AA	INTERGENIC		
SNP_32703_A_7394075	NC_021164.1	Ca_Kabuli_Chr05	7394075	TT	CC	CC	INTERGENIC		
SNP_32706_A_7497429	NC_021164.1	Ca_Kabuli_Chr05	7497429	AA	TT	TT	INTRON	101505224	vacuolar-processing enzyme delta-isozyme-like
SNP_32707_A_7497908	NC_021164.1	Ca_Kabuli_Chr05	7497908	GG	AA	AA	NON_SYNONYMOUS_CODING	101505224	vacuolar-processing enzyme delta-isozyme-like
SNP_32708_A_7509277	NC_021164.1	Ca_Kabuli_Chr05	7509277	AA	TT	TT	INTERGENIC		
SNP_32709_A_7519252	NC_021164.1	Ca_Kabuli_Chr05	7519252	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32710_A_7519563	NC_021164.1	Ca_Kabuli_Chr05	7519563	GG	TT	TT	INTERGENIC		
SNP_32711_A_7522338	NC_021164.1	Ca_Kabuli_Chr05	7522338	AA	GG	GG	DRR	101505549	vacuolar-processing enzyme gamma-isozyme-like
SNP_32713_A_7539128	NC_021164.1	Ca_Kabuli_Chr05	7539128	TT	GG	GG	INTERGENIC		
SNP_32714_A_7564530	NC_021164.1	Ca_Kabuli_Chr05	7564530	AA	GG	GG	INTERGENIC		
SNP_32715_A_7574364	NC_021164.1	Ca_Kabuli_Chr05	7574364	CC	TT	TT	INTERGENIC		
SNP_32716_A_7577852	NC_021164.1	Ca_Kabuli_Chr05	7577852	AA	GG	GG	INTERGENIC		
SNP_32717_A_7577999	NC_021164.1	Ca_Kabuli_Chr05	7577999	CC	TT	TT	INTERGENIC		
SNP_32718_A_7578001	NC_021164.1	Ca_Kabuli_Chr05	7578001	CC	AA	AA	INTERGENIC		
SNP_32719_A_7578845	NC_021164.1	Ca_Kabuli_Chr05	7578845	GG	CC	CC	INTERGENIC		
SNP_32720_A_7579087	NC_021164.1	Ca_Kabuli_Chr05	7579087	TT	AA	AA	INTERGENIC		
SNP_32721_A_7579100	NC_021164.1	Ca_Kabuli_Chr05	7579100	TT	GG	GG	INTERGENIC		
SNP_32722_A_7589278	NC_021164.1	Ca_Kabuli_Chr05	7589278	TT	CC	CC	INTRON	id97751	Unknown function
SNP_32723_A_7590811	NC_021164.1	Ca_Kabuli_Chr05	7590811	AA	CC	CC	URR	101494800	uncharacterized LOC101494800
SNP_32724_A_7591043	NC_021164.1	Ca_Kabuli_Chr05	7591043	AA	GG	GG	URR	101494800	uncharacterized LOC101494800
SNP_32726_A_7595455	NC_021164.1	Ca_Kabuli_Chr05	7595455	CC	AA	AA	INTERGENIC		
SNP_32727_A_7595592	NC_021164.1	Ca_Kabuli_Chr05	7595592	AA	GG	GG	INTERGENIC		
SNP_32728_A_7601296	NC_021164.1	Ca_Kabuli_Chr05	7601296	GG	AA	AA	INTERGENIC		
SNP_32729_A_7601317	NC_021164.1	Ca_Kabuli_Chr05	7601317	GG	AA	AA	INTERGENIC		
SNP_32730_A_7602358	NC_021164.1	Ca_Kabuli_Chr05	7602358	TT	CC	CC	INTERGENIC		
SNP_32731_A_7603426	NC_021164.1	Ca_Kabuli_Chr05	7603426	CC	TT	TT	INTERGENIC		
SNP_32732_A_7604915	NC_021164.1	Ca_Kabuli_Chr05	7604915	GG	AA	AA	INTERGENIC		
SNP_32733_A_7604954	NC_021164.1	Ca_Kabuli_Chr05	7604954	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32734_A_7604957	NC_021164.1	Ca_Kabuli_Chr05	7604957	CC	TT	TT	INTERGENIC		
SNP_32735_A_7605271	NC_021164.1	Ca_Kabuli_Chr05	7605271	CC	TT	TT	INTERGENIC		
SNP_32737_A_7606821	NC_021164.1	Ca_Kabuli_Chr05	7606821	GG	AA	AA	URR	101495556	uncharacterized protein At1g04910
SNP_32738_A_7609096	NC_021164.1	Ca_Kabuli_Chr05	7609096	CC	TT	TT	SYNONYMOUS_CODING	101495556	uncharacterized protein At1g04910
SNP_32739_A_7610574	NC_021164.1	Ca_Kabuli_Chr05	7610574	CC	AA	AA	INTERGENIC		
SNP_32740_A_7620253	NC_021164.1	Ca_Kabuli_Chr05	7620253	GG	AA	AA	INTERGENIC		
SNP_32741_A_7620291	NC_021164.1	Ca_Kabuli_Chr05	7620291	AA	TT	TT	INTERGENIC		
SNP_32742_A_7620572	NC_021164.1	Ca_Kabuli_Chr05	7620572	GG	AA	AA	INTERGENIC		
SNP_32743_A_7621831	NC_021164.1	Ca_Kabuli_Chr05	7621831	AA	GG	GG	INTERGENIC		
SNP_32744_A_7622582	NC_021164.1	Ca_Kabuli_Chr05	7622582	AA	GG	GG	INTERGENIC		
SNP_32745_A_7626260	NC_021164.1	Ca_Kabuli_Chr05	7626260	TT	CC	CC	INTERGENIC		
SNP_32746_A_7626386	NC_021164.1	Ca_Kabuli_Chr05	7626386	CC	AA	AA	INTERGENIC		
SNP_32747_A_7631146	NC_021164.1	Ca_Kabuli_Chr05	7631146	GG	AA	AA	URR	101496436	putative methylesterase 12, chloroplastic
SNP_32748_A_7631150	NC_021164.1	Ca_Kabuli_Chr05	7631150	CC	TT	TT	URR	101496436	putative methylesterase 12, chloroplastic
SNP_32749_A_7631158	NC_021164.1	Ca_Kabuli_Chr05	7631158	GG	AA	AA	URR	101496436	putative methylesterase 12, chloroplastic
SNP_32750_A_7631503	NC_021164.1	Ca_Kabuli_Chr05	7631503	GG	AA	AA	INTERGENIC		
SNP_32751_A_7631516	NC_021164.1	Ca_Kabuli_Chr05	7631516	AA	CC	CC	INTERGENIC		
SNP_32752_A_7631519	NC_021164.1	Ca_Kabuli_Chr05	7631519	AA	GG	GG	INTERGENIC		
SNP_32753_A_7633875	NC_021164.1	Ca_Kabuli_Chr05	7633875	AA	GG	GG	INTERGENIC		
SNP_32754_A_7634296	NC_021164.1	Ca_Kabuli_Chr05	7634296	TT	CC	CC	INTERGENIC		
SNP_32755_A_7634775	NC_021164.1	Ca_Kabuli_Chr05	7634775	GG	AA	AA	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32756_A_7634794	NC_021164.1	Ca_Kabuli_Chr05	7634794	TT	CC	CC	INTRON	101496766	putative B3 domain-containing protein Os03g0621600

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32757_A_7635901	NC_021164.1	Ca_Kabuli_Chr05	7635901	GG	AA	AA	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32758_A_7635909	NC_021164.1	Ca_Kabuli_Chr05	7635909	TT	CC	CC	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32759_A_7635971	NC_021164.1	Ca_Kabuli_Chr05	7635971	TT	CC	CC	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32760_A_7639149	NC_021164.1	Ca_Kabuli_Chr05	7639149	CC	TT	TT	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32761_A_7639178	NC_021164.1	Ca_Kabuli_Chr05	7639178	CC	GG	GG	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32762_A_7639444	NC_021164.1	Ca_Kabuli_Chr05	7639444	CC	TT	TT	INTRON	101496766	putative B3 domain-containing protein Os03g0621600
SNP_32764_A_7648928	NC_021164.1	Ca_Kabuli_Chr05	7648928	CC	TT	TT	INTRON	101505880	proline-rich receptor-like protein kinase PERK10
SNP_32765_A_7648988	NC_021164.1	Ca_Kabuli_Chr05	7648988	TT	CC	CC	INTRON	101505880	proline-rich receptor-like protein kinase PERK10
SNP_32766_A_7649002	NC_021164.1	Ca_Kabuli_Chr05	7649002	GG	AA	AA	INTRON	101505880	proline-rich receptor-like protein kinase PERK10
SNP_32767_A_7657789	NC_021164.1	Ca_Kabuli_Chr05	7657789	CC	TT	TT	INTERGENIC		
SNP_32768_A_7660112	NC_021164.1	Ca_Kabuli_Chr05	7660112	CC	TT	TT	INTERGENIC		
SNP_32769_A_7660114	NC_021164.1	Ca_Kabuli_Chr05	7660114	TT	CC	CC	INTERGENIC		
SNP_32770_A_7661453	NC_021164.1	Ca_Kabuli_Chr05	7661453	TT	CC	CC	DRR	101497081	regulator of nonsense transcripts UPF3
SNP_32771_A_7661455	NC_021164.1	Ca_Kabuli_Chr05	7661455	CC	TT	TT	DRR	101497081	regulator of nonsense transcripts UPF3
SNP_32773_A_7661606	NC_021164.1	Ca_Kabuli_Chr05	7661606	AA	GG	GG	DRR	101497081	regulator of nonsense transcripts UPF3
SNP_32777_A_7663312	NC_021164.1	Ca_Kabuli_Chr05	7663312	AA	GG	GG	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32778_A_7663318	NC_021164.1	Ca_Kabuli_Chr05	7663318	TT	AA	AA	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32779_A_7666520	NC_021164.1	Ca_Kabuli_Chr05	7666520	AA	GG	GG	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32781_A_7666539	NC_021164.1	Ca_Kabuli_Chr05	7666539	CC	AA	AA	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32782_A_7667490	NC_021164.1	Ca_Kabuli_Chr05	7667490	CC	TT	TT	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32783_A_7667506	NC_021164.1	Ca_Kabuli_Chr05	7667506	TT	CC	CC	INTRON	101497081	regulator of nonsense transcripts UPF3
SNP_32784_A_7667909	NC_021164.1	Ca_Kabuli_Chr05	7667909	GG	TT	TT	INTRON	101497081	regulator of nonsense transcripts UPF3

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SNP_32787_A_7674368	NC_021164.1	Ca_Kabuli_Chr05	7674368	AA	GG	GG	INTERGENIC		
SNP_32788_A_7674385	NC_021164.1	Ca_Kabuli_Chr05	7674385	TT	CC	CC	INTERGENIC		
SNP_32789_A_7674395	NC_021164.1	Ca_Kabuli_Chr05	7674395	GG	CC	CC	INTERGENIC		
SNP_32790_A_7674434	NC_021164.1	Ca_Kabuli_Chr05	7674434	GG	TT	TT	INTERGENIC		
SNP_32791_A_7678111	NC_021164.1	Ca_Kabuli_Chr05	7678111	GG	CC	CC	INTRON	101498947	agamous-like MADS-box protein AGL11
SNP_32792_A_7678121	NC_021164.1	Ca_Kabuli_Chr05	7678121	TT	CC	CC	INTRON	101498947	agamous-like MADS-box protein AGL11
SNP_32795_A_7682070	NC_021164.1	Ca_Kabuli_Chr05	7682070	AA	TT	TT	INTRON	101498947	agamous-like MADS-box protein AGL11
SNP_32796_A_7684296	NC_021164.1	Ca_Kabuli_Chr05	7684296	CC	AA	AA	URR	101498947	agamous-like MADS-box protein AGL11
SNP_32797_A_7690891	NC_021164.1	Ca_Kabuli_Chr05	7690891	TT	CC	CC	INTERGENIC		
SNP_32798_A_7690928	NC_021164.1	Ca_Kabuli_Chr05	7690928	AA	GG	GG	INTERGENIC		
SNP_32799_A_7691045	NC_021164.1	Ca_Kabuli_Chr05	7691045	CC	TT	TT	INTERGENIC		
SNP_32800_A_7692092	NC_021164.1	Ca_Kabuli_Chr05	7692092	AA	CC	CC	INTERGENIC		
SNP_32801_A_7692151	NC_021164.1	Ca_Kabuli_Chr05	7692151	CC	TT	TT	INTERGENIC		
SNP_32802_A_7692170	NC_021164.1	Ca_Kabuli_Chr05	7692170	AA	GG	GG	INTERGENIC		
SNP_32803_A_7692200	NC_021164.1	Ca_Kabuli_Chr05	7692200	CC	TT	TT	INTERGENIC		
SNP_32804_A_7692377	NC_021164.1	Ca_Kabuli_Chr05	7692377	AA	GG	GG	INTERGENIC		
SNP_32805_A_7692402	NC_021164.1	Ca_Kabuli_Chr05	7692402	TT	CC	CC	INTERGENIC		
SNP_32806_A_7692474	NC_021164.1	Ca_Kabuli_Chr05	7692474	AA	TT	TT	INTERGENIC		
SNP_32807_A_7695264	NC_021164.1	Ca_Kabuli_Chr05	7695264	AA	GG	GG	INTERGENIC		
SNP_32808_A_7695290	NC_021164.1	Ca_Kabuli_Chr05	7695290	CC	TT	TT	INTERGENIC		
SNP_32809_A_7695294	NC_021164.1	Ca_Kabuli_Chr05	7695294	AA	GG	GG	INTERGENIC		
SNP_32810_A_7695329	NC_021164.1	Ca_Kabuli_Chr05	7695329	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32812_A_7695621	NC_021164.1	Ca_Kabuli_Chr05	7695621	CC	AA	AA	INTERGENIC			
SNP_32815_A_7696438	NC_021164.1	Ca_Kabuli_Chr05	7696438	AA	TT	TT	INTERGENIC			
SNP_32816_A_7696472	NC_021164.1	Ca_Kabuli_Chr05	7696472	TT	AA	AA	INTERGENIC			
SNP_32817_A_7696673	NC_021164.1	Ca_Kabuli_Chr05	7696673	AA	GG	GG	INTERGENIC			
SNP_32819_A_7696703	NC_021164.1	Ca_Kabuli_Chr05	7696703	AA	GG	GG	INTERGENIC			
SNP_32820_A_7696734	NC_021164.1	Ca_Kabuli_Chr05	7696734	TT	CC	CC	INTERGENIC			
SNP_32822_A_7700899	NC_021164.1	Ca_Kabuli_Chr05	7700899	TT	GG	GG	INTERGENIC			
SNP_32823_A_7701146	NC_021164.1	Ca_Kabuli_Chr05	7701146	AA	GG	GG	INTERGENIC			
SNP_32824_A_7702579	NC_021164.1	Ca_Kabuli_Chr05	7702579	GG	AA	AA	INTERGENIC			
SNP_32825_A_7707391	NC_021164.1	Ca_Kabuli_Chr05	7707391	GG	TT	TT	INTERGENIC			
SNP_32826_A_7707402	NC_021164.1	Ca_Kabuli_Chr05	7707402	AA	CC	CC	INTERGENIC			
SNP_32827_A_7707511	NC_021164.1	Ca_Kabuli_Chr05	7707511	TT	AA	AA	INTERGENIC			
SNP_32828_A_7707521	NC_021164.1	Ca_Kabuli_Chr05	7707521	TT	CC	CC	INTERGENIC			
SNP_32829_A_7707526	NC_021164.1	Ca_Kabuli_Chr05	7707526	TT	CC	CC	INTERGENIC			
SNP_32830_A_7707536	NC_021164.1	Ca_Kabuli_Chr05	7707536	AA	GG	GG	INTERGENIC			
SNP_32831_A_7707558	NC_021164.1	Ca_Kabuli_Chr05	7707558	AA	GG	GG	INTERGENIC			
SNP_32832_A_7707569	NC_021164.1	Ca_Kabuli_Chr05	7707569	AA	CC	CC	INTERGENIC			
SNP_32833_A_7707599	NC_021164.1	Ca_Kabuli_Chr05	7707599	TT	CC	CC	INTERGENIC			
SNP_32834_A_7707637	NC_021164.1	Ca_Kabuli_Chr05	7707637	AA	GG	GG	INTERGENIC			
SNP_32835_A_7707650	NC_021164.1	Ca_Kabuli_Chr05	7707650	AA	CC	CC	INTERGENIC			
SNP_32836_A_7707665	NC_021164.1	Ca_Kabuli_Chr05	7707665	AA	GG	GG	INTERGENIC			
SNP_32838_A_7707869	NC_021164.1	Ca_Kabuli_Chr05	7707869	TT	CC	CC	INTERGENIC			

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SNP_32839_A_7713224	NC_021164.1	Ca_Kabuli_Chr05	7713224	AA	TT	TT	INTERGENIC			
SNP_32840_A_7713493	NC_021164.1	Ca_Kabuli_Chr05	7713493	CC	AA	AA	INTERGENIC			
SNP_32841_A_7713508	NC_021164.1	Ca_Kabuli_Chr05	7713508	GG	AA	AA	INTERGENIC			
SNP_32842_A_7713861	NC_021164.1	Ca_Kabuli_Chr05	7713861	TT	CC	CC	INTERGENIC			
SNP_32843_A_7714194	NC_021164.1	Ca_Kabuli_Chr05	7714194	GG	AA	AA	INTERGENIC			
SNP_32844_A_7714215	NC_021164.1	Ca_Kabuli_Chr05	7714215	CC	TT	TT	INTERGENIC			
SNP_32845_A_7714713	NC_021164.1	Ca_Kabuli_Chr05	7714713	AA	GG	GG	INTERGENIC			
SNP_32846_A_7728774	NC_021164.1	Ca_Kabuli_Chr05	7728774	AA	GG	GG	INTERGENIC			
SNP_32847_A_7731162	NC_021164.1	Ca_Kabuli_Chr05	7731162	TT	CC	CC	INTERGENIC			
SNP_32848_A_7731166	NC_021164.1	Ca_Kabuli_Chr05	7731166	GG	AA	AA	INTERGENIC			
SNP_32849_A_7732887	NC_021164.1	Ca_Kabuli_Chr05	7732887	AA	CC	CC	INTERGENIC			
SNP_32850_A_7733862	NC_021164.1	Ca_Kabuli_Chr05	7733862	CC	TT	TT	INTERGENIC			
SNP_32851_A_7733966	NC_021164.1	Ca_Kabuli_Chr05	7733966	TT	GG	GG	INTERGENIC			
SNP_32852_A_7734614	NC_021164.1	Ca_Kabuli_Chr05	7734614	GG	AA	AA	INTERGENIC			
SNP_32853_A_7734690	NC_021164.1	Ca_Kabuli_Chr05	7734690	GG	AA	AA	INTERGENIC			
SNP_32854_A_7734693	NC_021164.1	Ca_Kabuli_Chr05	7734693	AA	TT	TT	INTERGENIC			
SNP_32855_A_7734750	NC_021164.1	Ca_Kabuli_Chr05	7734750	AA	GG	GG	INTERGENIC			
SNP_32856_A_7734762	NC_021164.1	Ca_Kabuli_Chr05	7734762	CC	AA	AA	INTERGENIC			
SNP_32857_A_7734875	NC_021164.1	Ca_Kabuli_Chr05	7734875	AA	CC	CC	INTERGENIC			
SNP_32858_A_7734981	NC_021164.1	Ca_Kabuli_Chr05	7734981	GG	AA	AA	INTERGENIC			
SNP_32859_A_7734991	NC_021164.1	Ca_Kabuli_Chr05	7734991	GG	AA	AA	INTERGENIC			
SNP_32860_A_7734993	NC_021164.1	Ca_Kabuli_Chr05	7734993	CC	TT	TT	INTERGENIC			

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SNP_32861_A_7735388	NC_021164.1	Ca_Kabuli_Chr05	7735388	CC	TT	TT	INTERGENIC		
SNP_32862_A_7735408	NC_021164.1	Ca_Kabuli_Chr05	7735408	AA	GG	GG	INTERGENIC		
SNP_32863_A_7736721	NC_021164.1	Ca_Kabuli_Chr05	7736721	AA	GG	GG	INTERGENIC		
SNP_32864_A_7736738	NC_021164.1	Ca_Kabuli_Chr05	7736738	AA	GG	GG	INTERGENIC		
SNP_32865_A_7738776	NC_021164.1	Ca_Kabuli_Chr05	7738776	CC	TT	TT	DRR	101499686	cellulose synthase-like protein G1
SNP_32866_A_7742768	NC_021164.1	Ca_Kabuli_Chr05	7742768	GG	CC	CC	INTRON	101499686	cellulose synthase-like protein G1
SNP_32868_A_7749438	NC_021164.1	Ca_Kabuli_Chr05	7749438	GG	AA	AA	DRR	101506196	Unknown function
SNP_32870_A_7751659	NC_021164.1	Ca_Kabuli_Chr05	7751659	TT	GG	GG	SYNONYMOUS_CODING	101506196	Unknown function
SNP_32871_A_7751934	NC_021164.1	Ca_Kabuli_Chr05	7751934	CC	TT	TT	SYNONYMOUS_CODING	101506196	Unknown function
SNP_32872_A_7751961	NC_021164.1	Ca_Kabuli_Chr05	7751961	AA	TT	TT	URR	101506196	Unknown function
SNP_32873_A_7752108	NC_021164.1	Ca_Kabuli_Chr05	7752108	AA	GG	GG	URR	101506196	Unknown function
SNP_32874_A_7752256	NC_021164.1	Ca_Kabuli_Chr05	7752256	GG	AA	AA	URR	101506196	Unknown function
SNP_32875_A_7752284	NC_021164.1	Ca_Kabuli_Chr05	7752284	TT	AA	AA	URR	101506196	Unknown function
SNP_32876_A_7752321	NC_021164.1	Ca_Kabuli_Chr05	7752321	CC	TT	TT	URR	101506196	Unknown function
SNP_32877_A_7752381	NC_021164.1	Ca_Kabuli_Chr05	7752381	TT	AA	AA	URR	101506196	Unknown function
SNP_32878_A_7767476	NC_021164.1	Ca_Kabuli_Chr05	7767476	AA	TT	TT	INTERGENIC		
SNP_32879_A_7767667	NC_021164.1	Ca_Kabuli_Chr05	7767667	GG	AA	AA	INTERGENIC		
SNP_32880_A_7768764	NC_021164.1	Ca_Kabuli_Chr05	7768764	GG	CC	CC	INTERGENIC		
SNP_32881_A_7771246	NC_021164.1	Ca_Kabuli_Chr05	7771246	GG	AA	AA	INTERGENIC		
SNP_32882_A_7771268	NC_021164.1	Ca_Kabuli_Chr05	7771268	GG	TT	TT	INTERGENIC		
SNP_32883_A_7771547	NC_021164.1	Ca_Kabuli_Chr05	7771547	CC	AA	AA	INTERGENIC		
SNP_32884_A_7771550	NC_021164.1	Ca_Kabuli_Chr05	7771550	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32885_A_7771568	NC_021164.1	Ca_Kabuli_Chr05	7771568	CC	TT	TT	INTERGENIC		
SNP_32886_A_7771579	NC_021164.1	Ca_Kabuli_Chr05	7771579	AA	CC	CC	INTERGENIC		
SNP_32887_A_7772046	NC_021164.1	Ca_Kabuli_Chr05	7772046	AA	GG	GG	INTERGENIC		
SNP_32888_A_7772682	NC_021164.1	Ca_Kabuli_Chr05	7772682	CC	TT	TT	INTERGENIC		
SNP_32889_A_7772708	NC_021164.1	Ca_Kabuli_Chr05	7772708	GG	AA	AA	INTERGENIC		
SNP_32890_A_7772711	NC_021164.1	Ca_Kabuli_Chr05	7772711	CC	GG	GG	INTERGENIC		
SNP_32891_A_7772717	NC_021164.1	Ca_Kabuli_Chr05	7772717	GG	AA	AA	INTERGENIC		
SNP_32892_A_7773019	NC_021164.1	Ca_Kabuli_Chr05	7773019	TT	AA	AA	INTERGENIC		
SNP_32893_A_7773160	NC_021164.1	Ca_Kabuli_Chr05	7773160	GG	TT	TT	INTERGENIC		
SNP_32894_A_7773329	NC_021164.1	Ca_Kabuli_Chr05	7773329	TT	AA	AA	INTERGENIC		
SNP_32895_A_7773427	NC_021164.1	Ca_Kabuli_Chr05	7773427	CC	TT	TT	INTERGENIC		
SNP_32896_A_7773453	NC_021164.1	Ca_Kabuli_Chr05	7773453	CC	GG	GG	INTERGENIC		
SNP_32897_A_7774464	NC_021164.1	Ca_Kabuli_Chr05	7774464	AA	CC	CC	DRR	101499997	putative disease resistance protein At3g14460
SNP_32898_A_7774816	NC_021164.1	Ca_Kabuli_Chr05	7774816	CC	GG	GG	DRR	101499997	putative disease resistance protein At3g14460
SNP_32899_A_7774913	NC_021164.1	Ca_Kabuli_Chr05	7774913	CC	AA	AA	DRR	101499997	putative disease resistance protein At3g14460
SNP_32900_A_7775038	NC_021164.1	Ca_Kabuli_Chr05	7775038	TT	CC	CC	NON_SYNONYMOUS_CODING	101499997	putative disease resistance protein At3g14460
SNP_32901_A_7775055	NC_021164.1	Ca_Kabuli_Chr05	7775055	GG	AA	AA	NON_SYNONYMOUS_CODING	101499997	putative disease resistance protein At3g14460
SNP_32902_A_7778938	NC_021164.1	Ca_Kabuli_Chr05	7778938	AA	GG	GG	URR	101499997	putative disease resistance protein At3g14460
SNP_32903_A_7781547	NC_021164.1	Ca_Kabuli_Chr05	7781547	TT	CC	CC	INTERGENIC		
SNP_32904_A_7786063	NC_021164.1	Ca_Kabuli_Chr05	7786063	AA	TT	TT	INTERGENIC		
SNP_32906_A_7786616	NC_021164.1	Ca_Kabuli_Chr05	7786616	GG	AA	AA	INTERGENIC		
SNP_32907_A_7789695	NC_021164.1	Ca_Kabuli_Chr05	7789695	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32908_A_7812724	NC_021164.1	Ca_Kabuli_Chr05	7812724	AA	GG	GG	INTERGENIC		
SNP_32909_A_7812831	NC_021164.1	Ca_Kabuli_Chr05	7812831	AA	GG	GG	INTERGENIC		
SNP_32910_A_7828559	NC_021164.1	Ca_Kabuli_Chr05	7828559	CC	TT	TT	INTERGENIC		
SNP_32911_A_7828566	NC_021164.1	Ca_Kabuli_Chr05	7828566	GG	TT	TT	INTERGENIC		
SNP_32913_A_7831029	NC_021164.1	Ca_Kabuli_Chr05	7831029	TT	AA	AA	INTERGENIC		
SNP_32914_A_7832429	NC_021164.1	Ca_Kabuli_Chr05	7832429	CC	AA	AA	INTERGENIC		
SNP_32915_A_7832619	NC_021164.1	Ca_Kabuli_Chr05	7832619	AA	CC	CC	INTERGENIC		
SNP_32916_A_7832651	NC_021164.1	Ca_Kabuli_Chr05	7832651	TT	CC	CC	INTERGENIC		
SNP_32917_A_7832876	NC_021164.1	Ca_Kabuli_Chr05	7832876	CC	TT	TT	INTERGENIC		
SNP_32918_A_7843382	NC_021164.1	Ca_Kabuli_Chr05	7843382	TT	CC	CC	URR	101500338	GDSL esterase/lipase At1g71691
SNP_32919_A_7843388	NC_021164.1	Ca_Kabuli_Chr05	7843388	CC	TT	TT	URR	101500338	GDSL esterase/lipase At1g71691
SNP_32920_A_7843423	NC_021164.1	Ca_Kabuli_Chr05	7843423	TT	CC	CC	URR	101500338	GDSL esterase/lipase At1g71691
SNP_32921_A_7843432	NC_021164.1	Ca_Kabuli_Chr05	7843432	TT	AA	AA	URR	101500338	GDSL esterase/lipase At1g71691
SNP_32923_A_7858750	NC_021164.1	Ca_Kabuli_Chr05	7858750	GG	AA	AA	INTERGENIC		
SNP_32925_A_7863279	NC_021164.1	Ca_Kabuli_Chr05	7863279	AA	GG	GG	URR	101501696	glucuronoxylan 4-O-methyltransferase 3
SNP_32926_A_7863283	NC_021164.1	Ca_Kabuli_Chr05	7863283	CC	GG	GG	URR	101501696	glucuronoxylan 4-O-methyltransferase 3
SNP_32927_A_7863309	NC_021164.1	Ca_Kabuli_Chr05	7863309	TT	CC	CC	URR	101501696	glucuronoxylan 4-O-methyltransferase 3
SNP_32928_A_7863346	NC_021164.1	Ca_Kabuli_Chr05	7863346	CC	TT	TT	URR	101501696	glucuronoxylan 4-O-methyltransferase 3
SNP_32929_A_7863402	NC_021164.1	Ca_Kabuli_Chr05	7863402	AA	GG	GG	URR	101501696	glucuronoxylan 4-O-methyltransferase 3
SNP_32930_A_7863633	NC_021164.1	Ca_Kabuli_Chr05	7863633	TT	GG	GG	INTERGENIC		
SNP_32931_A_7863637	NC_021164.1	Ca_Kabuli_Chr05	7863637	CC	AA	AA	INTERGENIC		
SNP_32932_A_7863796	NC_021164.1	Ca_Kabuli_Chr05	7863796	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_32933_A_7866123	NC_021164.1	Ca_Kabuli_Chr05	7866123	CC	TT	TT	INTERGENIC		
SNP_32935_A_7868804	NC_021164.1	Ca_Kabuli_Chr05	7868804	AA	CC	CC	INTRON	101502022	uncharacterized LOC101502022
SNP_32936_A_7869610	NC_021164.1	Ca_Kabuli_Chr05	7869610	TT	CC	CC	INTRON	101502022	uncharacterized LOC101502022
SNP_32937_A_7869991	NC_021164.1	Ca_Kabuli_Chr05	7869991	CC	TT	TT	INTRON	101502022	uncharacterized LOC101502022
SNP_32938_A_7870075	NC_021164.1	Ca_Kabuli_Chr05	7870075	AA	GG	GG	INTRON	101502022	uncharacterized LOC101502022
SNP_32939_A_7872637	NC_021164.1	Ca_Kabuli_Chr05	7872637	AA	CC	CC	INTRON	101502022	uncharacterized LOC101502022
SNP_32940_A_7873041	NC_021164.1	Ca_Kabuli_Chr05	7873041	GG	TT	TT	INTRON	101502022	uncharacterized LOC101502022
SNP_32941_A_7873975	NC_021164.1	Ca_Kabuli_Chr05	7873975	AA	GG	GG	INTRON	101502022	uncharacterized LOC101502022
SNP_32942_A_7874038	NC_021164.1	Ca_Kabuli_Chr05	7874038	CC	TT	TT	INTRON	101502022	uncharacterized LOC101502022
SNP_32943_A_7874039	NC_021164.1	Ca_Kabuli_Chr05	7874039	AA	GG	GG	INTRON	101502022	uncharacterized LOC101502022
SNP_32944_A_7874049	NC_021164.1	Ca_Kabuli_Chr05	7874049	CC	AA	AA	INTRON	101502022	uncharacterized LOC101502022
SNP_32945_A_7874053	NC_021164.1	Ca_Kabuli_Chr05	7874053	AA	GG	GG	INTRON	101502022	uncharacterized LOC101502022
SNP_32946_A_7874448	NC_021164.1	Ca_Kabuli_Chr05	7874448	AA	TT	TT	INTRON	101502022	uncharacterized LOC101502022
SNP_32947_A_7878566	NC_021164.1	Ca_Kabuli_Chr05	7878566	TT	GG	GG	INTERGENIC		
SNP_32948_A_7878790	NC_021164.1	Ca_Kabuli_Chr05	7878790	TT	CC	CC	INTERGENIC		
SNP_32949_A_7883426	NC_021164.1	Ca_Kabuli_Chr05	7883426	CC	AA	AA	INTERGENIC		
SNP_32950_A_7883611	NC_021164.1	Ca_Kabuli_Chr05	7883611	TT	CC	CC	INTERGENIC		
SNP_32951_A_7886979	NC_021164.1	Ca_Kabuli_Chr05	7886979	AA	CC	CC	DRR	101502351	putative methyltransferase At1g22800
SNP_32954_A_7894862	NC_021164.1	Ca_Kabuli_Chr05	7894862	GG	AA	AA	INTRON	101502351	putative methyltransferase At1g22800
SNP_32955_A_7899117	NC_021164.1	Ca_Kabuli_Chr05	7899117	TT	CC	CC	INTRON	101502351	putative methyltransferase At1g22800
SNP_32956_A_7907840	NC_021164.1	Ca_Kabuli_Chr05	7907840	GG	AA	AA	INTERGENIC		
SNP_32957_A_7907886	NC_021164.1	Ca_Kabuli_Chr05	7907886	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32958_A_7909065	NC_021164.1	Ca_Kabuli_Chr05	7909065	AA	TT	TT	INTERGENIC			
SNP_32959_A_7909066	NC_021164.1	Ca_Kabuli_Chr05	7909066	TT	AA	AA	INTERGENIC			
SNP_32961_A_7909179	NC_021164.1	Ca_Kabuli_Chr05	7909179	GG	AA	AA	INTERGENIC			
SNP_32962_A_7911699	NC_021164.1	Ca_Kabuli_Chr05	7911699	TT	GG	GG	INTERGENIC			
SNP_32963_A_7911794	NC_021164.1	Ca_Kabuli_Chr05	7911794	AA	CC	CC	INTERGENIC			
SNP_32964_A_7911802	NC_021164.1	Ca_Kabuli_Chr05	7911802	AA	GG	GG	INTERGENIC			
SNP_32965_A_7911814	NC_021164.1	Ca_Kabuli_Chr05	7911814	AA	GG	GG	INTERGENIC			
SNP_32966_A_7911954	NC_021164.1	Ca_Kabuli_Chr05	7911954	GG	AA	AA	INTERGENIC			
SNP_32967_A_7911955	NC_021164.1	Ca_Kabuli_Chr05	7911955	CC	TT	TT	INTERGENIC			
SNP_32968_A_7912015	NC_021164.1	Ca_Kabuli_Chr05	7912015	CC	GG	GG	INTERGENIC			
SNP_32969_A_7912066	NC_021164.1	Ca_Kabuli_Chr05	7912066	AA	TT	TT	INTERGENIC			
SNP_32970_A_7912073	NC_021164.1	Ca_Kabuli_Chr05	7912073	AA	GG	GG	INTERGENIC			
SNP_32971_A_7912092	NC_021164.1	Ca_Kabuli_Chr05	7912092	AA	GG	GG	INTERGENIC			
SNP_32972_A_7912265	NC_021164.1	Ca_Kabuli_Chr05	7912265	GG	CC	CC	INTERGENIC			
SNP_32973_A_7912361	NC_021164.1	Ca_Kabuli_Chr05	7912361	CC	TT	TT	INTERGENIC			
SNP_32974_A_7912364	NC_021164.1	Ca_Kabuli_Chr05	7912364	GG	AA	AA	INTERGENIC			
SNP_32975_A_7912370	NC_021164.1	Ca_Kabuli_Chr05	7912370	AA	GG	GG	INTERGENIC			
SNP_32976_A_7912381	NC_021164.1	Ca_Kabuli_Chr05	7912381	TT	CC	CC	INTERGENIC			
SNP_32978_A_7913121	NC_021164.1	Ca_Kabuli_Chr05	7913121	AA	GG	GG	INTERGENIC			
SNP_32979_A_7913138	NC_021164.1	Ca_Kabuli_Chr05	7913138	TT	GG	GG	INTERGENIC			
SNP_32980_A_7913362	NC_021164.1	Ca_Kabuli_Chr05	7913362	AA	GG	GG	INTERGENIC			
SNP_32981_A_7913376	NC_021164.1	Ca_Kabuli_Chr05	7913376	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_32982_A_7913387	NC_021164.1	Ca_Kabuli_Chr05	7913387	TT	AA	AA	INTERGENIC			
SNP_32983_A_7914161	NC_021164.1	Ca_Kabuli_Chr05	7914161	AA	GG	GG	INTERGENIC			
SNP_32984_A_7914456	NC_021164.1	Ca_Kabuli_Chr05	7914456	AA	GG	GG	INTERGENIC			
SNP_32985_A_7914475	NC_021164.1	Ca_Kabuli_Chr05	7914475	GG	AA	AA	INTERGENIC			
SNP_32986_A_7914517	NC_021164.1	Ca_Kabuli_Chr05	7914517	TT	CC	CC	INTERGENIC			
SNP_32987_A_7914783	NC_021164.1	Ca_Kabuli_Chr05	7914783	CC	TT	TT	INTERGENIC			
SNP_32988_A_7914796	NC_021164.1	Ca_Kabuli_Chr05	7914796	AA	GG	GG	INTERGENIC			
SNP_32989_A_7914820	NC_021164.1	Ca_Kabuli_Chr05	7914820	TT	GG	GG	INTERGENIC			
SNP_32990_A_7914927	NC_021164.1	Ca_Kabuli_Chr05	7914927	TT	CC	CC	INTERGENIC			
SNP_32992_A_7915998	NC_021164.1	Ca_Kabuli_Chr05	7915998	TT	CC	CC	INTERGENIC			
SNP_32993_A_7916256	NC_021164.1	Ca_Kabuli_Chr05	7916256	CC	AA	AA	INTERGENIC			
SNP_32994_A_7916966	NC_021164.1	Ca_Kabuli_Chr05	7916966	CC	TT	TT	INTERGENIC			
SNP_32995_A_7916975	NC_021164.1	Ca_Kabuli_Chr05	7916975	TT	CC	CC	INTERGENIC			
SNP_32998_A_7941440	NC_021164.1	Ca_Kabuli_Chr05	7941440	TT	AA	AA	INTERGENIC			
SNP_32999_A_7951762	NC_021164.1	Ca_Kabuli_Chr05	7951762	TT	AA	AA	INTERGENIC			
SNP_33000_A_7951766	NC_021164.1	Ca_Kabuli_Chr05	7951766	GG	CC	CC	INTERGENIC			
SNP_33001_A_7951781	NC_021164.1	Ca_Kabuli_Chr05	7951781	CC	TT	TT	INTERGENIC			
SNP_33002_A_7951803	NC_021164.1	Ca_Kabuli_Chr05	7951803	AA	GG	GG	INTERGENIC			
SNP_33003_A_7956734	NC_021164.1	Ca_Kabuli_Chr05	7956734	TT	CC	CC	INTERGENIC			
SNP_33004_A_7956737	NC_021164.1	Ca_Kabuli_Chr05	7956737	CC	TT	TT	INTERGENIC			
SNP_33005_A_7956782	NC_021164.1	Ca_Kabuli_Chr05	7956782	CC	TT	TT	INTERGENIC			
SNP_33006_A_7956794	NC_021164.1	Ca_Kabuli_Chr05	7956794	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33007_A_7957377	NC_021164.1	Ca_Kabuli_Chr05	7957377	CC	TT	TT	INTERGENIC			
SNP_33008_A_7957656	NC_021164.1	Ca_Kabuli_Chr05	7957656	CC	TT	TT	INTERGENIC			
SNP_33010_A_7957731	NC_021164.1	Ca_Kabuli_Chr05	7957731	AA	GG	GG	INTERGENIC			
SNP_33011_A_7963096	NC_021164.1	Ca_Kabuli_Chr05	7963096	AA	GG	GG	INTERGENIC			
SNP_33012_A_7963162	NC_021164.1	Ca_Kabuli_Chr05	7963162	CC	AA	AA	INTERGENIC			
SNP_33013_A_7963190	NC_021164.1	Ca_Kabuli_Chr05	7963190	AA	TT	TT	INTERGENIC			
SNP_33014_A_7963351	NC_021164.1	Ca_Kabuli_Chr05	7963351	AA	GG	GG	INTERGENIC			
SNP_33015_A_7963397	NC_021164.1	Ca_Kabuli_Chr05	7963397	TT	CC	CC	INTERGENIC			
SNP_33016_A_7963403	NC_021164.1	Ca_Kabuli_Chr05	7963403	CC	TT	TT	INTERGENIC			
SNP_33017_A_7963448	NC_021164.1	Ca_Kabuli_Chr05	7963448	GG	AA	AA	INTERGENIC			
SNP_33018_A_7963829	NC_021164.1	Ca_Kabuli_Chr05	7963829	AA	TT	TT	INTERGENIC			
SNP_33019_A_7963836	NC_021164.1	Ca_Kabuli_Chr05	7963836	CC	TT	TT	INTERGENIC			
SNP_33021_A_7965046	NC_021164.1	Ca_Kabuli_Chr05	7965046	TT	CC	CC	INTERGENIC			
SNP_33022_A_7965067	NC_021164.1	Ca_Kabuli_Chr05	7965067	AA	TT	TT	INTERGENIC			
SNP_33023_A_7966585	NC_021164.1	Ca_Kabuli_Chr05	7966585	GG	AA	AA	INTERGENIC			
SNP_33025_A_7967433	NC_021164.1	Ca_Kabuli_Chr05	7967433	CC	TT	TT	INTERGENIC			
SNP_33026_A_7967485	NC_021164.1	Ca_Kabuli_Chr05	7967485	CC	AA	AA	INTERGENIC			
SNP_33028_A_7967537	NC_021164.1	Ca_Kabuli_Chr05	7967537	CC	TT	TT	INTERGENIC			
SNP_33029_A_7967576	NC_021164.1	Ca_Kabuli_Chr05	7967576	AA	GG	GG	INTERGENIC			
SNP_33030_A_7967583	NC_021164.1	Ca_Kabuli_Chr05	7967583	CC	GG	GG	INTERGENIC			
SNP_33032_A_7968030	NC_021164.1	Ca_Kabuli_Chr05	7968030	AA	GG	GG	INTERGENIC			
SNP_33033_A_7968068	NC_021164.1	Ca_Kabuli_Chr05	7968068	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33034_A_7968265	NC_021164.1	Ca_Kabuli_Chr05	7968265	CC	AA	AA	INTERGENIC		
SNP_33035_A_7972028	NC_021164.1	Ca_Kabuli_Chr05	7972028	GG	AA	AA	INTERGENIC		
SNP_33036_A_7973281	NC_021164.1	Ca_Kabuli_Chr05	7973281	CC	TT	TT	INTERGENIC		
SNP_33037_A_7974206	NC_021164.1	Ca_Kabuli_Chr05	7974206	GG	AA	AA	INTERGENIC		
SNP_33038_A_7974231	NC_021164.1	Ca_Kabuli_Chr05	7974231	AA	CC	CC	INTERGENIC		
SNP_33039_A_7974277	NC_021164.1	Ca_Kabuli_Chr05	7974277	GG	AA	AA	INTERGENIC		
SNP_33040_A_7974287	NC_021164.1	Ca_Kabuli_Chr05	7974287	AA	GG	GG	INTERGENIC		
SNP_33041_A_7974886	NC_021164.1	Ca_Kabuli_Chr05	7974886	GG	TT	TT	INTERGENIC		
SNP_33042_A_7975917	NC_021164.1	Ca_Kabuli_Chr05	7975917	GG	AA	AA	INTERGENIC		
SNP_33043_A_7976860	NC_021164.1	Ca_Kabuli_Chr05	7976860	AA	GG	GG	DRR	101502973	lysine histidine transporter-like 5
SNP_33045_A_7979123	NC_021164.1	Ca_Kabuli_Chr05	7979123	AA	GG	GG	INTRON	101502973	lysine histidine transporter-like 5
SNP_33046_A_7981389	NC_021164.1	Ca_Kabuli_Chr05	7981389	AA	GG	GG	URR	101502973	lysine histidine transporter-like 5
SNP_33047_A_7981469	NC_021164.1	Ca_Kabuli_Chr05	7981469	GG	AA	AA	URR	101502973	lysine histidine transporter-like 5
SNP_33048_A_7982039	NC_021164.1	Ca_Kabuli_Chr05	7982039	AA	GG	GG	URR	101502973	lysine histidine transporter-like 5
SNP_33050_A_7982994	NC_021164.1	Ca_Kabuli_Chr05	7982994	CC	TT	TT	INTERGENIC		
SNP_33051_A_7983267	NC_021164.1	Ca_Kabuli_Chr05	7983267	AA	TT	TT	INTERGENIC		
SNP_33052_A_7984160	NC_021164.1	Ca_Kabuli_Chr05	7984160	TT	CC	CC	INTERGENIC		
SNP_33053_A_7984291	NC_021164.1	Ca_Kabuli_Chr05	7984291	CC	TT	TT	INTERGENIC		
SNP_33054_A_7984340	NC_021164.1	Ca_Kabuli_Chr05	7984340	AA	GG	GG	INTERGENIC		
SNP_33055_A_7984752	NC_021164.1	Ca_Kabuli_Chr05	7984752	GG	TT	TT	INTERGENIC		
SNP_33056_A_7985813	NC_021164.1	Ca_Kabuli_Chr05	7985813	GG	CC	CC	INTERGENIC		
SNP_33057_A_7986231	NC_021164.1	Ca_Kabuli_Chr05	7986231	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33058_A_7986232	NC_021164.1	Ca_Kabuli_Chr05	7986232	TT	CC	CC	INTERGENIC		
SNP_33059_A_7986547	NC_021164.1	Ca_Kabuli_Chr05	7986547	CC	AA	AA	INTERGENIC		
SNP_33060_A_7987418	NC_021164.1	Ca_Kabuli_Chr05	7987418	GG	TT	TT	INTERGENIC		
SNP_33061_A_7987431	NC_021164.1	Ca_Kabuli_Chr05	7987431	TT	CC	CC	INTERGENIC		
SNP_33062_A_7987843	NC_021164.1	Ca_Kabuli_Chr05	7987843	GG	CC	CC	INTERGENIC		
SNP_33063_A_7990101	NC_021164.1	Ca_Kabuli_Chr05	7990101	TT	CC	CC	INTERGENIC		
SNP_33065_A_7990444	NC_021164.1	Ca_Kabuli_Chr05	7990444	CC	TT	TT	INTERGENIC		
SNP_33066_A_7990884	NC_021164.1	Ca_Kabuli_Chr05	7990884	AA	CC	CC	INTERGENIC		
SNP_33067_A_7990898	NC_021164.1	Ca_Kabuli_Chr05	7990898	TT	AA	AA	INTERGENIC		
SNP_33068_A_7991039	NC_021164.1	Ca_Kabuli_Chr05	7991039	TT	CC	CC	INTERGENIC		
SNP_33069_A_7991077	NC_021164.1	Ca_Kabuli_Chr05	7991077	CC	TT	TT	INTERGENIC		
SNP_33070_A_7991139	NC_021164.1	Ca_Kabuli_Chr05	7991139	GG	AA	AA	INTERGENIC		
SNP_33071_A_7991196	NC_021164.1	Ca_Kabuli_Chr05	7991196	AA	GG	GG	INTERGENIC		
SNP_33072_A_7991665	NC_021164.1	Ca_Kabuli_Chr05	7991665	AA	GG	GG	INTERGENIC		
SNP_33073_A_7992248	NC_021164.1	Ca_Kabuli_Chr05	7992248	AA	TT	TT	INTERGENIC		
SNP_33074_A_7992784	NC_021164.1	Ca_Kabuli_Chr05	7992784	CC	TT	TT	INTERGENIC		
SNP_33075_A_7993121	NC_021164.1	Ca_Kabuli_Chr05	7993121	CC	AA	AA	INTERGENIC		
SNP_33076_A_7993529	NC_021164.1	Ca_Kabuli_Chr05	7993529	GG	AA	AA	INTERGENIC		
SNP_33077_A_8001062	NC_021164.1	Ca_Kabuli_Chr05	8001062	TT	CC	CC	DRR	101503295	E3 ubiquitin-protein ligase RNF170-like
SNP_33078_A_8002073	NC_021164.1	Ca_Kabuli_Chr05	8002073	TT	AA	AA	INTERGENIC		
SNP_33079_A_8003320	NC_021164.1	Ca_Kabuli_Chr05	8003320	TT	CC	CC	INTERGENIC		
SNP_33080_A_8003483	NC_021164.1	Ca_Kabuli_Chr05	8003483	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33081_A_8005635	NC_021164.1	Ca_Kabuli_Chr05	8005635	CC	GG	GG	DRR	101503626	DNA mismatch repair protein MLH1
SNP_33082_A_8016947	NC_021164.1	Ca_Kabuli_Chr05	8016947	AA	CC	CC	INTRON	101503626	DNA mismatch repair protein MLH1
SNP_33083_A_8016969	NC_021164.1	Ca_Kabuli_Chr05	8016969	CC	TT	TT	INTRON	101503626	DNA mismatch repair protein MLH1
SNP_33084_A_8018766	NC_021164.1	Ca_Kabuli_Chr05	8018766	AA	TT	TT	INTRON	101503626	DNA mismatch repair protein MLH1
SNP_33085_A_8020455	NC_021164.1	Ca_Kabuli_Chr05	8020455	GG	AA	AA	INTRON	101503626	DNA mismatch repair protein MLH1
SNP_33086_A_8028429	NC_021164.1	Ca_Kabuli_Chr05	8028429	AA	GG	GG	INTERGENIC		
SNP_33087_A_8037579	NC_021164.1	Ca_Kabuli_Chr05	8037579	GG	AA	AA	INTERGENIC		
SNP_33088_A_8040292	NC_021164.1	Ca_Kabuli_Chr05	8040292	AA	GG	GG	INTERGENIC		
SNP_33090_A_8040392	NC_021164.1	Ca_Kabuli_Chr05	8040392	GG	AA	AA	INTERGENIC		
SNP_33092_A_8040483	NC_021164.1	Ca_Kabuli_Chr05	8040483	AA	GG	GG	INTERGENIC		
SNP_33093_A_8040537	NC_021164.1	Ca_Kabuli_Chr05	8040537	TT	AA	AA	INTERGENIC		
SNP_33094_A_8040643	NC_021164.1	Ca_Kabuli_Chr05	8040643	TT	GG	GG	INTERGENIC		
SNP_33096_A_8040703	NC_021164.1	Ca_Kabuli_Chr05	8040703	TT	GG	GG	INTERGENIC		
SNP_33097_A_8044819	NC_021164.1	Ca_Kabuli_Chr05	8044819	CC	TT	TT	INTERGENIC		
SNP_33098_A_8048810	NC_021164.1	Ca_Kabuli_Chr05	8048810	CC	TT	TT	INTERGENIC		
SNP_33099_A_8058351	NC_021164.1	Ca_Kabuli_Chr05	8058351	AA	TT	TT	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33100_A_8058354	NC_021164.1	Ca_Kabuli_Chr05	8058354	TT	AA	AA	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33101_A_8058355	NC_021164.1	Ca_Kabuli_Chr05	8058355	AA	CC	CC	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33102_A_8058375	NC_021164.1	Ca_Kabuli_Chr05	8058375	GG	TT	TT	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33103_A_8059622	NC_021164.1	Ca_Kabuli_Chr05	8059622	CC	TT	TT	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33104_A_8059652	NC_021164.1	Ca_Kabuli_Chr05	8059652	GG	TT	TT	URR	101503953	glycine-rich cell wall structural protein-like
SNP_33105_A_8059684	NC_021164.1	Ca_Kabuli_Chr05	8059684	TT	AA	AA	URR	101503953	glycine-rich cell wall structural protein-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33106_A_8059840	NC_021164.1	Ca_Kabuli_Chr05	8059840	AA	TT	TT	URR		101503953	glycine-rich cell wall structural protein-like
SNP_33107_A_8059986	NC_021164.1	Ca_Kabuli_Chr05	8059986	GG	CC	CC	URR		101503953	glycine-rich cell wall structural protein-like
SNP_33108_A_8060000	NC_021164.1	Ca_Kabuli_Chr05	8060000	GG	CC	CC	URR		101503953	glycine-rich cell wall structural protein-like
SNP_33109_A_8060055	NC_021164.1	Ca_Kabuli_Chr05	8060055	AA	CC	CC	URR		101503953	glycine-rich cell wall structural protein-like
SNP_33111_A_8073856	NC_021164.1	Ca_Kabuli_Chr05	8073856	GG	AA	AA	INTERGENIC			
SNP_33112_A_8079518	NC_021164.1	Ca_Kabuli_Chr05	8079518	TT	AA	AA	DRR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33113_A_8079777	NC_021164.1	Ca_Kabuli_Chr05	8079777	CC	TT	TT	DRR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33114_A_8079779	NC_021164.1	Ca_Kabuli_Chr05	8079779	TT	CC	CC	DRR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33115_A_8079782	NC_021164.1	Ca_Kabuli_Chr05	8079782	AA	GG	GG	DRR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33116_A_8079783	NC_021164.1	Ca_Kabuli_Chr05	8079783	GG	TT	TT	DRR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33117_A_8082439	NC_021164.1	Ca_Kabuli_Chr05	8082439	GG	TT	TT	INTRON		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33118_A_8083770	NC_021164.1	Ca_Kabuli_Chr05	8083770	CC	TT	TT	INTRON		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33119_A_8088047	NC_021164.1	Ca_Kabuli_Chr05	8088047	AA	GG	GG	URR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33121_A_8088857	NC_021164.1	Ca_Kabuli_Chr05	8088857	AA	GG	GG	URR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33122_A_8089236	NC_021164.1	Ca_Kabuli_Chr05	8089236	CC	TT	TT	URR		101504702	glycerophosphodiester phosphodiesterase GDPD4
SNP_33125_A_8093567	NC_021164.1	Ca_Kabuli_Chr05	8093567	TT	AA	AA	INTERGENIC			
SNP_33126_A_8093606	NC_021164.1	Ca_Kabuli_Chr05	8093606	AA	GG	GG	INTERGENIC			
SNP_33127_A_8094437	NC_021164.1	Ca_Kabuli_Chr05	8094437	CC	TT	TT	INTERGENIC			
SNP_33128_A_8096184	NC_021164.1	Ca_Kabuli_Chr05	8096184	TT	CC	CC	INTERGENIC			
SNP_33131_A_8099335	NC_021164.1	Ca_Kabuli_Chr05	8099335	AA	GG	GG	INTERGENIC			
SNP_33132_A_8099649	NC_021164.1	Ca_Kabuli_Chr05	8099649	AA	TT	TT	INTERGENIC			
SNP_33133_A_8100422	NC_021164.1	Ca_Kabuli_Chr05	8100422	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33135_A_8101988	NC_021164.1	Ca_Kabuli_Chr05	8101988	GG	AA	AA	INTERGENIC			
SNP_33136_A_8102655	NC_021164.1	Ca_Kabuli_Chr05	8102655	AA	GG	GG	INTERGENIC			
SNP_33137_A_8105225	NC_021164.1	Ca_Kabuli_Chr05	8105225	AA	GG	GG	INTERGENIC			
SNP_33138_A_8106073	NC_021164.1	Ca_Kabuli_Chr05	8106073	GG	AA	AA	INTERGENIC			
SNP_33139_A_8107494	NC_021164.1	Ca_Kabuli_Chr05	8107494	TT	CC	CC	INTERGENIC			
SNP_33140_A_8110457	NC_021164.1	Ca_Kabuli_Chr05	8110457	TT	GG	GG	INTERGENIC			
SNP_33141_A_8110472	NC_021164.1	Ca_Kabuli_Chr05	8110472	TT	CC	CC	INTERGENIC			
SNP_33142_A_8111029	NC_021164.1	Ca_Kabuli_Chr05	8111029	GG	AA	AA	INTERGENIC			
SNP_33143_A_8111337	NC_021164.1	Ca_Kabuli_Chr05	8111337	GG	CC	CC	INTERGENIC			
SNP_33144_A_8111356	NC_021164.1	Ca_Kabuli_Chr05	8111356	GG	TT	TT	INTERGENIC			
SNP_33145_A_8113404	NC_021164.1	Ca_Kabuli_Chr05	8113404	AA	TT	TT	INTERGENIC			
SNP_33146_A_8113446	NC_021164.1	Ca_Kabuli_Chr05	8113446	CC	TT	TT	INTERGENIC			
SNP_33147_A_8113460	NC_021164.1	Ca_Kabuli_Chr05	8113460	TT	CC	CC	INTERGENIC			
SNP_33148_A_8113485	NC_021164.1	Ca_Kabuli_Chr05	8113485	TT	CC	CC	INTERGENIC			
SNP_33149_A_8120300	NC_021164.1	Ca_Kabuli_Chr05	8120300	TT	GG	GG	INTERGENIC			
SNP_33150_A_8120310	NC_021164.1	Ca_Kabuli_Chr05	8120310	AA	GG	GG	INTERGENIC			
SNP_33151_A_8120313	NC_021164.1	Ca_Kabuli_Chr05	8120313	GG	TT	TT	INTERGENIC			
SNP_33152_A_8122051	NC_021164.1	Ca_Kabuli_Chr05	8122051	TT	CC	CC	INTERGENIC			
SNP_33153_A_8123510	NC_021164.1	Ca_Kabuli_Chr05	8123510	AA	TT	TT	INTERGENIC			
SNP_33154_A_8128946	NC_021164.1	Ca_Kabuli_Chr05	8128946	GG	AA	AA	INTERGENIC			
SNP_33155_A_8130834	NC_021164.1	Ca_Kabuli_Chr05	8130834	TT	CC	CC	INTERGENIC			
SNP_33156_A_8134013	NC_021164.1	Ca_Kabuli_Chr05	8134013	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33157_A_8136226	NC_021164.1	Ca_Kabuli_Chr05	8136226	CC	TT	TT	INTERGENIC			
SNP_33158_A_8136534	NC_021164.1	Ca_Kabuli_Chr05	8136534	TT	CC	CC	INTERGENIC			
SNP_33159_A_8138709	NC_021164.1	Ca_Kabuli_Chr05	8138709	AA	CC	CC	INTERGENIC			
SNP_33160_A_8138733	NC_021164.1	Ca_Kabuli_Chr05	8138733	TT	CC	CC	INTERGENIC			
SNP_33161_A_8143035	NC_021164.1	Ca_Kabuli_Chr05	8143035	AA	GG	GG	INTERGENIC			
SNP_33162_A_8143042	NC_021164.1	Ca_Kabuli_Chr05	8143042	CC	TT	TT	INTERGENIC			
SNP_33163_A_8143064	NC_021164.1	Ca_Kabuli_Chr05	8143064	CC	TT	TT	INTERGENIC			
SNP_33164_A_8161144	NC_021164.1	Ca_Kabuli_Chr05	8161144	AA	CC	CC	INTERGENIC			
SNP_33165_A_8163512	NC_021164.1	Ca_Kabuli_Chr05	8163512	TT	CC	CC	INTERGENIC			
SNP_33167_A_8164321	NC_021164.1	Ca_Kabuli_Chr05	8164321	TT	AA	AA	INTERGENIC			
SNP_33168_A_8164630	NC_021164.1	Ca_Kabuli_Chr05	8164630	AA	GG	GG	INTERGENIC			
SNP_33169_A_8164632	NC_021164.1	Ca_Kabuli_Chr05	8164632	AA	TT	TT	INTERGENIC			
SNP_33170_A_8164731	NC_021164.1	Ca_Kabuli_Chr05	8164731	AA	GG	GG	INTERGENIC			
SNP_33171_A_8164974	NC_021164.1	Ca_Kabuli_Chr05	8164974	GG	CC	CC	INTERGENIC			
SNP_33172_A_8172400	NC_021164.1	Ca_Kabuli_Chr05	8172400	AA	GG	GG	INTERGENIC			
SNP_33173_A_8173787	NC_021164.1	Ca_Kabuli_Chr05	8173787	TT	AA	AA	INTERGENIC			
SNP_33174_A_8182110	NC_021164.1	Ca_Kabuli_Chr05	8182110	GG	AA	AA	INTERGENIC			
SNP_33175_A_8182181	NC_021164.1	Ca_Kabuli_Chr05	8182181	GG	AA	AA	INTERGENIC			
SNP_33176_A_8185889	NC_021164.1	Ca_Kabuli_Chr05	8185889	AA	GG	GG	INTERGENIC			
SNP_33177_A_8186271	NC_021164.1	Ca_Kabuli_Chr05	8186271	TT	GG	GG	INTERGENIC			
SNP_33178_A_8186631	NC_021164.1	Ca_Kabuli_Chr05	8186631	GG	CC	CC	INTERGENIC			
SNP_33180_A_8203378	NC_021164.1	Ca_Kabuli_Chr05	8203378	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33181_A_8206269	NC_021164.1	Ca_Kabuli_Chr05	8206269	CC	GG	GG	INTERGENIC		
SNP_33182_A_8207098	NC_021164.1	Ca_Kabuli_Chr05	8207098	AA	CC	CC	INTERGENIC		
SNP_33183_A_8208050	NC_021164.1	Ca_Kabuli_Chr05	8208050	AA	GG	GG	INTERGENIC		
SNP_33184_A_8212299	NC_021164.1	Ca_Kabuli_Chr05	8212299	AA	TT	TT	INTERGENIC		
SNP_33185_A_8212334	NC_021164.1	Ca_Kabuli_Chr05	8212334	CC	TT	TT	INTERGENIC		
SNP_33186_A_8216718	NC_021164.1	Ca_Kabuli_Chr05	8216718	AA	GG	GG	INTERGENIC		
SNP_33187_A_8216783	NC_021164.1	Ca_Kabuli_Chr05	8216783	TT	AA	AA	INTERGENIC		
SNP_33188_A_8217072	NC_021164.1	Ca_Kabuli_Chr05	8217072	AA	GG	GG	INTERGENIC		
SNP_33189_A_8241170	NC_021164.1	Ca_Kabuli_Chr05	8241170	TT	AA	AA	DRR	101507191	uncharacterized LOC101507191
SNP_33190_A_8241625	NC_021164.1	Ca_Kabuli_Chr05	8241625	GG	AA	AA	DRR	101507191	uncharacterized LOC101507191
SNP_33192_A_8257776	NC_021164.1	Ca_Kabuli_Chr05	8257776	AA	GG	GG	INTERGENIC		
SNP_33193_A_8259413	NC_021164.1	Ca_Kabuli_Chr05	8259413	GG	AA	AA	INTERGENIC		
SNP_33194_A_8261487	NC_021164.1	Ca_Kabuli_Chr05	8261487	AA	TT	TT	INTERGENIC		
SNP_33195_A_8263249	NC_021164.1	Ca_Kabuli_Chr05	8263249	TT	CC	CC	INTERGENIC		
SNP_33196_A_8263264	NC_021164.1	Ca_Kabuli_Chr05	8263264	TT	GG	GG	INTERGENIC		
SNP_33197_A_8263304	NC_021164.1	Ca_Kabuli_Chr05	8263304	AA	GG	GG	INTERGENIC		
SNP_33198_A_8263310	NC_021164.1	Ca_Kabuli_Chr05	8263310	AA	TT	TT	INTERGENIC		
SNP_33199_A_8264231	NC_021164.1	Ca_Kabuli_Chr05	8264231	GG	CC	CC	INTERGENIC		
SNP_33200_A_8267148	NC_021164.1	Ca_Kabuli_Chr05	8267148	TT	CC	CC	INTERGENIC		
SNP_33202_A_8267675	NC_021164.1	Ca_Kabuli_Chr05	8267675	GG	AA	AA	INTERGENIC		
SNP_33203_A_8267972	NC_021164.1	Ca_Kabuli_Chr05	8267972	TT	CC	CC	INTERGENIC		
SNP_33204_A_8268054	NC_021164.1	Ca_Kabuli_Chr05	8268054	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33205_A_8271562	NC_021164.1	Ca_Kabuli_Chr05	8271562	AA	GG	GG	INTERGENIC		
SNP_33206_A_8271594	NC_021164.1	Ca_Kabuli_Chr05	8271594	GG	AA	AA	INTERGENIC		
SNP_33207_A_8284074	NC_021164.1	Ca_Kabuli_Chr05	8284074	TT	CC	CC	URR	101505028	uncharacterized LOC101505028
SNP_33208_A_8284114	NC_021164.1	Ca_Kabuli_Chr05	8284114	CC	TT	TT	URR	101505028	uncharacterized LOC101505028
SNP_33209_A_8284168	NC_021164.1	Ca_Kabuli_Chr05	8284168	AA	CC	CC	URR	101505028	uncharacterized LOC101505028
SNP_33210_A_8286938	NC_021164.1	Ca_Kabuli_Chr05	8286938	AA	GG	GG	INTERGENIC		
SNP_33211_A_8287698	NC_021164.1	Ca_Kabuli_Chr05	8287698	AA	TT	TT	INTERGENIC		
SNP_33212_A_8293302	NC_021164.1	Ca_Kabuli_Chr05	8293302	TT	CC	CC	INTERGENIC		
SNP_33213_A_8293325	NC_021164.1	Ca_Kabuli_Chr05	8293325	TT	AA	AA	INTERGENIC		
SNP_33214_A_8293354	NC_021164.1	Ca_Kabuli_Chr05	8293354	TT	AA	AA	INTERGENIC		
SNP_33215_A_8293355	NC_021164.1	Ca_Kabuli_Chr05	8293355	TT	CC	CC	INTERGENIC		
SNP_33216_A_8293396	NC_021164.1	Ca_Kabuli_Chr05	8293396	AA	TT	TT	INTERGENIC		
SNP_33217_A_8293572	NC_021164.1	Ca_Kabuli_Chr05	8293572	GG	AA	AA	INTERGENIC		
SNP_33218_A_8296682	NC_021164.1	Ca_Kabuli_Chr05	8296682	GG	AA	AA	INTERGENIC		
SNP_33219_A_8301638	NC_021164.1	Ca_Kabuli_Chr05	8301638	TT	GG	GG	INTERGENIC		
SNP_33220_A_8305761	NC_021164.1	Ca_Kabuli_Chr05	8305761	CC	TT	TT	INTERGENIC		
SNP_33221_A_8311105	NC_021164.1	Ca_Kabuli_Chr05	8311105	GG	AA	AA	INTERGENIC		
SNP_33222_A_8311192	NC_021164.1	Ca_Kabuli_Chr05	8311192	TT	GG	GG	INTERGENIC		
SNP_33223_A_8312185	NC_021164.1	Ca_Kabuli_Chr05	8312185	TT	CC	CC	INTERGENIC		
SNP_33224_A_8314228	NC_021164.1	Ca_Kabuli_Chr05	8314228	AA	GG	GG	INTERGENIC		
SNP_33225_A_8314484	NC_021164.1	Ca_Kabuli_Chr05	8314484	AA	TT	TT	INTERGENIC		
SNP_33226_A_8315882	NC_021164.1	Ca_Kabuli_Chr05	8315882	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33228_A_8317327	NC_021164.1	Ca_Kabuli_Chr05	8317327	GG	AA	AA	INTERGENIC		
SNP_33229_A_8319306	NC_021164.1	Ca_Kabuli_Chr05	8319306	CC	AA	AA	INTERGENIC		
SNP_33230_A_8320761	NC_021164.1	Ca_Kabuli_Chr05	8320761	AA	TT	TT	INTERGENIC		
SNP_33231_A_8340362	NC_021164.1	Ca_Kabuli_Chr05	8340362	TT	CC	CC	INTRON	101508461	bidirectional sugar transporter SWEET2-like
SNP_33232_A_8343795	NC_021164.1	Ca_Kabuli_Chr05	8343795	GG	AA	AA	URR	101508461	bidirectional sugar transporter SWEET2-like
SNP_33233_A_8346490	NC_021164.1	Ca_Kabuli_Chr05	8346490	TT	GG	GG	INTERGENIC		
SNP_33234_A_8346514	NC_021164.1	Ca_Kabuli_Chr05	8346514	AA	CC	CC	INTERGENIC		
SNP_33235_A_8346570	NC_021164.1	Ca_Kabuli_Chr05	8346570	CC	TT	TT	INTERGENIC		
SNP_33236_A_8346573	NC_021164.1	Ca_Kabuli_Chr05	8346573	TT	AA	AA	INTERGENIC		
SNP_33237_A_8346607	NC_021164.1	Ca_Kabuli_Chr05	8346607	AA	GG	GG	INTERGENIC		
SNP_33238_A_8347007	NC_021164.1	Ca_Kabuli_Chr05	8347007	AA	GG	GG	INTERGENIC		
SNP_33239_A_8379492	NC_021164.1	Ca_Kabuli_Chr05	8379492	CC	TT	TT	INTERGENIC		
SNP_33240_A_8413204	NC_021164.1	Ca_Kabuli_Chr05	8413204	AA	TT	TT	INTERGENIC		
SNP_33241_A_8413434	NC_021164.1	Ca_Kabuli_Chr05	8413434	AA	GG	GG	INTERGENIC		
SNP_33242_A_8413487	NC_021164.1	Ca_Kabuli_Chr05	8413487	AA	GG	GG	INTERGENIC		
SNP_33243_A_8473090	NC_021164.1	Ca_Kabuli_Chr05	8473090	TT	AA	AA	INTERGENIC		
SNP_33244_A_8477375	NC_021164.1	Ca_Kabuli_Chr05	8477375	GG	AA	AA	INTERGENIC		
SNP_33245_A_8478056	NC_021164.1	Ca_Kabuli_Chr05	8478056	GG	AA	AA	INTERGENIC		
SNP_33246_A_8482626	NC_021164.1	Ca_Kabuli_Chr05	8482626	TT	CC	CC	INTERGENIC		
SNP_33247_A_8482629	NC_021164.1	Ca_Kabuli_Chr05	8482629	TT	CC	CC	INTERGENIC		
SNP_33248_A_8485640	NC_021164.1	Ca_Kabuli_Chr05	8485640	AA	GG	GG	INTERGENIC		
SNP_33249_A_8485665	NC_021164.1	Ca_Kabuli_Chr05	8485665	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33250_A_8485797	NC_021164.1	Ca_Kabuli_Chr05	8485797	GG	CC	CC	INTERGENIC		
SNP_33251_A_8485909	NC_021164.1	Ca_Kabuli_Chr05	8485909	AA	GG	GG	INTERGENIC		
SNP_33252_A_8485920	NC_021164.1	Ca_Kabuli_Chr05	8485920	CC	TT	TT	INTERGENIC		
SNP_33253_A_8485926	NC_021164.1	Ca_Kabuli_Chr05	8485926	CC	GG	GG	INTERGENIC		
SNP_33256_A_8694448	NC_021164.1	Ca_Kabuli_Chr05	8694448	GG	TT	TT	INTERGENIC		
SNP_33257_A_8694451	NC_021164.1	Ca_Kabuli_Chr05	8694451	AA	CC	CC	INTERGENIC		
SNP_33258_A_8700357	NC_021164.1	Ca_Kabuli_Chr05	8700357	GG	AA	AA	SYNONYMOUS_CODING	101513493	phospholipid-transporting ATPase 1-like
SNP_33259_A_8701982	NC_021164.1	Ca_Kabuli_Chr05	8701982	GG	AA	AA	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33260_A_8701984	NC_021164.1	Ca_Kabuli_Chr05	8701984	TT	CC	CC	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33261_A_8701987	NC_021164.1	Ca_Kabuli_Chr05	8701987	CC	GG	GG	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33262_A_8701996	NC_021164.1	Ca_Kabuli_Chr05	8701996	TT	AA	AA	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33263_A_8702481	NC_021164.1	Ca_Kabuli_Chr05	8702481	CC	TT	TT	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33264_A_8704256	NC_021164.1	Ca_Kabuli_Chr05	8704256	GG	AA	AA	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33265_A_8704263	NC_021164.1	Ca_Kabuli_Chr05	8704263	CC	TT	TT	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33266_A_8705875	NC_021164.1	Ca_Kabuli_Chr05	8705875	GG	CC	CC	INTRON	101513493	phospholipid-transporting ATPase 1-like
SNP_33267_A_8706561	NC_021164.1	Ca_Kabuli_Chr05	8706561	CC	GG	GG	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33268_A_8707975	NC_021164.1	Ca_Kabuli_Chr05	8707975	TT	CC	CC	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33269_A_8708022	NC_021164.1	Ca_Kabuli_Chr05	8708022	AA	GG	GG	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33270_A_8708201	NC_021164.1	Ca_Kabuli_Chr05	8708201	CC	TT	TT	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33271_A_8708324	NC_021164.1	Ca_Kabuli_Chr05	8708324	AA	CC	CC	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33272_A_8708333	NC_021164.1	Ca_Kabuli_Chr05	8708333	AA	GG	GG	URR	101513493	phospholipid-transporting ATPase 1-like
SNP_33273_A_8708339	NC_021164.1	Ca_Kabuli_Chr05	8708339	CC	TT	TT	URR	101513493	phospholipid-transporting ATPase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33274_A_8711265	NC_021164.1	Ca_Kabuli_Chr05	8711265	GG	AA	AA	INTERGENIC		
SNP_33275_A_8711423	NC_021164.1	Ca_Kabuli_Chr05	8711423	AA	CC	CC	INTERGENIC		
SNP_33276_A_8711460	NC_021164.1	Ca_Kabuli_Chr05	8711460	CC	TT	TT	INTERGENIC		
SNP_33277_A_8711461	NC_021164.1	Ca_Kabuli_Chr05	8711461	GG	AA	AA	INTERGENIC		
SNP_33278_A_8719619	NC_021164.1	Ca_Kabuli_Chr05	8719619	CC	GG	GG	INTRON	101513796	probable prefolin subunit 2
SNP_33279_A_8720692	NC_021164.1	Ca_Kabuli_Chr05	8720692	CC	TT	TT	INTRON	101513796	probable prefolin subunit 2
SNP_33281_A_8724529	NC_021164.1	Ca_Kabuli_Chr05	8724529	TT	CC	CC	INTERGENIC		
SNP_33282_A_8724543	NC_021164.1	Ca_Kabuli_Chr05	8724543	GG	TT	TT	INTERGENIC		
SNP_33283_A_8724559	NC_021164.1	Ca_Kabuli_Chr05	8724559	AA	TT	TT	INTERGENIC		
SNP_33284_A_8724774	NC_021164.1	Ca_Kabuli_Chr05	8724774	CC	AA	AA	INTERGENIC		
SNP_33285_A_8724812	NC_021164.1	Ca_Kabuli_Chr05	8724812	TT	AA	AA	INTERGENIC		
SNP_33286_A_8724846	NC_021164.1	Ca_Kabuli_Chr05	8724846	CC	GG	GG	INTERGENIC		
SNP_33287_A_8726848	NC_021164.1	Ca_Kabuli_Chr05	8726848	TT	CC	CC	INTERGENIC		
SNP_33288_A_8726852	NC_021164.1	Ca_Kabuli_Chr05	8726852	CC	AA	AA	INTERGENIC		
SNP_33289_A_8729526	NC_021164.1	Ca_Kabuli_Chr05	8729526	CC	TT	TT	INTERGENIC		
SNP_33290_A_8729537	NC_021164.1	Ca_Kabuli_Chr05	8729537	TT	GG	GG	INTERGENIC		
SNP_33292_A_8729603	NC_021164.1	Ca_Kabuli_Chr05	8729603	GG	AA	AA	INTERGENIC		
SNP_33293_A_8730188	NC_021164.1	Ca_Kabuli_Chr05	8730188	AA	TT	TT	INTERGENIC		
SNP_33294_A_8731567	NC_021164.1	Ca_Kabuli_Chr05	8731567	TT	CC	CC	INTERGENIC		
SNP_33295_A_8732868	NC_021164.1	Ca_Kabuli_Chr05	8732868	GG	AA	AA	INTERGENIC		
SNP_33296_A_8733226	NC_021164.1	Ca_Kabuli_Chr05	8733226	TT	CC	CC	INTERGENIC		
SNP_33297_A_8733233	NC_021164.1	Ca_Kabuli_Chr05	8733233	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33298_A_8745222	NC_021164.1	Ca_Kabuli_Chr05	8745222	CC	TT	TT	INTERGENIC		
SNP_33299_A_8745279	NC_021164.1	Ca_Kabuli_Chr05	8745279	TT	CC	CC	INTERGENIC		
SNP_33300_A_8745407	NC_021164.1	Ca_Kabuli_Chr05	8745407	CC	TT	TT	INTERGENIC		
SNP_33301_A_8745926	NC_021164.1	Ca_Kabuli_Chr05	8745926	AA	GG	GG	INTERGENIC		
SNP_33302_A_8746130	NC_021164.1	Ca_Kabuli_Chr05	8746130	TT	CC	CC	INTERGENIC		
SNP_33303_A_8749144	NC_021164.1	Ca_Kabuli_Chr05	8749144	GG	AA	AA	INTERGENIC		
SNP_33304_A_8750097	NC_021164.1	Ca_Kabuli_Chr05	8750097	GG	AA	AA	DRR	101514144	UPF0695 membrane protein C977.11/PB8B6.06c-like
SNP_33305_A_8752977	NC_021164.1	Ca_Kabuli_Chr05	8752977	AA	GG	GG	INTERGENIC		
SNP_33306_A_8758862	NC_021164.1	Ca_Kabuli_Chr05	8758862	GG	CC	CC	URR	101514470	inactive protein RESTRICTED TEV MOVEMENT 2
SNP_33307_A_8759615	NC_021164.1	Ca_Kabuli_Chr05	8759615	AA	CC	CC	DRR	101514794	bifunctional protein FoD 1, mitochondrial-like
SNP_33308_A_8759637	NC_021164.1	Ca_Kabuli_Chr05	8759637	AA	CC	CC	DRR	101514794	bifunctional protein FoD 1, mitochondrial-like
SNP_33309_A_8768697	NC_021164.1	Ca_Kabuli_Chr05	8768697	TT	GG	GG	INTERGENIC		
SNP_33311_A_8769186	NC_021164.1	Ca_Kabuli_Chr05	8769186	CC	GG	GG	INTERGENIC		
SNP_33312_A_8773149	NC_021164.1	Ca_Kabuli_Chr05	8773149	AA	GG	GG	SYNONYMOUS_CODING	101515117	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_33313_A_8774439	NC_021164.1	Ca_Kabuli_Chr05	8774439	GG	AA	AA	INTRON	101515117	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_33314_A_8775036	NC_021164.1	Ca_Kabuli_Chr05	8775036	TT	AA	AA	INTRON	101515117	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_33316_A_8776139	NC_021164.1	Ca_Kabuli_Chr05	8776139	TT	CC	CC	URR	101515117	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_33317_A_8780641	NC_021164.1	Ca_Kabuli_Chr05	8780641	GG	TT	TT	INTERGENIC		
SNP_33319_A_8784168	NC_021164.1	Ca_Kabuli_Chr05	8784168	CC	TT	TT	INTERGENIC		
SNP_33321_A_8794509	NC_021164.1	Ca_Kabuli_Chr05	8794509	TT	CC	CC	INTRON	101515768	60S ribosomal protein L11-like
SNP_33323_A_8808654	NC_021164.1	Ca_Kabuli_Chr05	8808654	TT	CC	CC	INTERGENIC		
SNP_33324_A_8814290	NC_021164.1	Ca_Kabuli_Chr05	8814290	TT	CC	CC	INTRON	101488527	histone acetyltransferase of the MYST family 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33325_A_8818989	NC_021164.1	Ca_Kabuli_Chr05	8818989	CC	TT	TT	URR	101488527	histone acetyltransferase of the MYST family 2-like
SNP_33326_A_8818990	NC_021164.1	Ca_Kabuli_Chr05	8818990	AA	GG	GG	URR	101488527	histone acetyltransferase of the MYST family 2-like
SNP_33327_A_8822195	NC_021164.1	Ca_Kabuli_Chr05	8822195	AA	GG	GG	INTERGENIC		
SNP_33328_A_8822224	NC_021164.1	Ca_Kabuli_Chr05	8822224	GG	AA	AA	INTERGENIC		
SNP_33329_A_8822227	NC_021164.1	Ca_Kabuli_Chr05	8822227	CC	TT	TT	INTERGENIC		
SNP_33330_A_8822296	NC_021164.1	Ca_Kabuli_Chr05	8822296	TT	AA	AA	INTERGENIC		
SNP_33331_A_8822478	NC_021164.1	Ca_Kabuli_Chr05	8822478	GG	CC	CC	INTERGENIC		
SNP_33332_A_8822676	NC_021164.1	Ca_Kabuli_Chr05	8822676	TT	CC	CC	INTERGENIC		
SNP_33333_A_8823091	NC_021164.1	Ca_Kabuli_Chr05	8823091	TT	CC	CC	INTERGENIC		
SNP_33334_A_8823109	NC_021164.1	Ca_Kabuli_Chr05	8823109	AA	GG	GG	INTERGENIC		
SNP_33336_A_8823445	NC_021164.1	Ca_Kabuli_Chr05	8823445	AA	TT	TT	INTERGENIC		
SNP_33338_A_8823785	NC_021164.1	Ca_Kabuli_Chr05	8823785	TT	CC	CC	INTERGENIC		
SNP_33339_A_8826260	NC_021164.1	Ca_Kabuli_Chr05	8826260	AA	TT	TT	INTRON	101489092	probable dimethyladenosine transferase
SNP_33340_A_8826277	NC_021164.1	Ca_Kabuli_Chr05	8826277	TT	CC	CC	INTRON	101489092	probable dimethyladenosine transferase
SNP_33341_A_8828968	NC_021164.1	Ca_Kabuli_Chr05	8828968	CC	TT	TT	URR	101489092	probable dimethyladenosine transferase
SNP_33342_A_8829353	NC_021164.1	Ca_Kabuli_Chr05	8829353	CC	TT	TT	URR	101489092	probable dimethyladenosine transferase
SNP_33345_A_8837436	NC_021164.1	Ca_Kabuli_Chr05	8837436	CC	TT	TT	INTERGENIC		
SNP_33346_A_8837737	NC_021164.1	Ca_Kabuli_Chr05	8837737	TT	CC	CC	INTERGENIC		
SNP_33347_A_8837780	NC_021164.1	Ca_Kabuli_Chr05	8837780	CC	AA	AA	INTERGENIC		
SNP_33348_A_8837801	NC_021164.1	Ca_Kabuli_Chr05	8837801	AA	TT	TT	INTERGENIC		
SNP_33349_A_8837809	NC_021164.1	Ca_Kabuli_Chr05	8837809	CC	TT	TT	INTERGENIC		
SNP_33350_A_8837912	NC_021164.1	Ca_Kabuli_Chr05	8837912	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33351_A_8837921	NC_021164.1	Ca_Kabuli_Chr05	8837921	GG	TT	TT	INTERGENIC		
SNP_33352_A_8838192	NC_021164.1	Ca_Kabuli_Chr05	8838192	AA	CC	CC	INTERGENIC		
SNP_33353_A_8838213	NC_021164.1	Ca_Kabuli_Chr05	8838213	TT	CC	CC	INTERGENIC		
SNP_33354_A_8838227	NC_021164.1	Ca_Kabuli_Chr05	8838227	CC	AA	AA	INTERGENIC		
SNP_33355_A_8855249	NC_021164.1	Ca_Kabuli_Chr05	8855249	AA	GG	GG	INTERGENIC		
SNP_33356_A_8858940	NC_021164.1	Ca_Kabuli_Chr05	8858940	AA	TT	TT	INTRON	101489425	E3 ubiquitin protein ligase RIN2-like
SNP_33357_A_8867281	NC_021164.1	Ca_Kabuli_Chr05	8867281	AA	GG	GG	INTERGENIC		
SNP_33358_A_8868145	NC_021164.1	Ca_Kabuli_Chr05	8868145	AA	TT	TT	INTERGENIC		
SNP_33359_A_8870118	NC_021164.1	Ca_Kabuli_Chr05	8870118	AA	CC	CC	NON_SYNONYMOUS_CODING	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33360_A_8870503	NC_021164.1	Ca_Kabuli_Chr05	8870503	CC	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33361_A_8870541	NC_021164.1	Ca_Kabuli_Chr05	8870541	GG	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33362_A_8870835	NC_021164.1	Ca_Kabuli_Chr05	8870835	CC	TT	TT	NON_SYNONYMOUS_CODING	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33363_A_8870838	NC_021164.1	Ca_Kabuli_Chr05	8870838	CC	TT	TT	NON_SYNONYMOUS_CODING	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33364_A_8870842	NC_021164.1	Ca_Kabuli_Chr05	8870842	TT	GG	GG	SYNONYMOUS_CODING	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33365_A_8877956	NC_021164.1	Ca_Kabuli_Chr05	8877956	TT	AA	AA	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33367_A_8878213	NC_021164.1	Ca_Kabuli_Chr05	8878213	CC	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33368_A_8878230	NC_021164.1	Ca_Kabuli_Chr05	8878230	CC	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33369_A_8878259	NC_021164.1	Ca_Kabuli_Chr05	8878259	AA	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33370_A_8878592	NC_021164.1	Ca_Kabuli_Chr05	8878592	TT	GG	GG	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33371_A_8878602	NC_021164.1	Ca_Kabuli_Chr05	8878602	GG	AA	AA	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33372_A_8878617	NC_021164.1	Ca_Kabuli_Chr05	8878617	CC	AA	AA	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]
SNP_33373_A_8883141	NC_021164.1	Ca_Kabuli_Chr05	8883141	GG	TT	TT	INTRON	101489746	probable cellulose synthase A catalytic subunit 3 [UDP-forming]

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33374_A_8927856	NC_021164.1	Ca_Kabuli_Chr05	8927856	TT	CC	CC	INTERGENIC			
SNP_33375_A_8928130	NC_021164.1	Ca_Kabuli_Chr05	8928130	GG	TT	TT	INTERGENIC			
SNP_33376_A_8928176	NC_021164.1	Ca_Kabuli_Chr05	8928176	CC	TT	TT	INTERGENIC			
SNP_33377_A_8929694	NC_021164.1	Ca_Kabuli_Chr05	8929694	CC	AA	AA	INTERGENIC			
SNP_33380_A_8930622	NC_021164.1	Ca_Kabuli_Chr05	8930622	GG	CC	CC	INTERGENIC			
SNP_33381_A_8934179	NC_021164.1	Ca_Kabuli_Chr05	8934179	CC	TT	TT	INTERGENIC			
SNP_33383_A_8936186	NC_021164.1	Ca_Kabuli_Chr05	8936186	GG	AA	AA	INTERGENIC			
SNP_33384_A_8936226	NC_021164.1	Ca_Kabuli_Chr05	8936226	CC	GG	GG	INTERGENIC			
SNP_33385_A_8936459	NC_021164.1	Ca_Kabuli_Chr05	8936459	TT	CC	CC	INTERGENIC			
SNP_33386_A_8936472	NC_021164.1	Ca_Kabuli_Chr05	8936472	AA	GG	GG	INTERGENIC			
SNP_33387_A_8936507	NC_021164.1	Ca_Kabuli_Chr05	8936507	AA	TT	TT	INTERGENIC			
SNP_33389_A_8937247	NC_021164.1	Ca_Kabuli_Chr05	8937247	AA	GG	GG	INTERGENIC			
SNP_33390_A_8937513	NC_021164.1	Ca_Kabuli_Chr05	8937513	TT	CC	CC	DRR	101490062	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	
SNP_33391_A_8937540	NC_021164.1	Ca_Kabuli_Chr05	8937540	TT	CC	CC	DRR	101490062	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	
SNP_33392_A_8937651	NC_021164.1	Ca_Kabuli_Chr05	8937651	CC	TT	TT	DRR	101490062	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	
SNP_33393_A_8941980	NC_021164.1	Ca_Kabuli_Chr05	8941980	GG	TT	TT	INTERGENIC			
SNP_33394_A_8942254	NC_021164.1	Ca_Kabuli_Chr05	8942254	GG	AA	AA	INTERGENIC			
SNP_33395_A_8942309	NC_021164.1	Ca_Kabuli_Chr05	8942309	AA	TT	TT	INTERGENIC			
SNP_33396_A_8943072	NC_021164.1	Ca_Kabuli_Chr05	8943072	TT	CC	CC	INTERGENIC			
SNP_33397_A_8943553	NC_021164.1	Ca_Kabuli_Chr05	8943553	CC	GG	GG	INTERGENIC			
SNP_33398_A_8946558	NC_021164.1	Ca_Kabuli_Chr05	8946558	AA	GG	GG	URR	101490062	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial	
SNP_33400_A_8952530	NC_021164.1	Ca_Kabuli_Chr05	8952530	AA	TT	TT	INTRON	101490396	eugenol synthase 1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33401_A_8952537	NC_021164.1	Ca_Kabuli_Chr05	8952537	GG	AA	AA	INTRON	101490396	eugenol synthase 1-like
SNP_33402_A_8955420	NC_021164.1	Ca_Kabuli_Chr05	8955420	TT	AA	AA	URR	101490396	eugenol synthase 1-like
SNP_33403_A_8960310	NC_021164.1	Ca_Kabuli_Chr05	8960310	TT	GG	GG	INTERGENIC		
SNP_33404_A_8960653	NC_021164.1	Ca_Kabuli_Chr05	8960653	TT	CC	CC	INTERGENIC		
SNP_33405_A_8961443	NC_021164.1	Ca_Kabuli_Chr05	8961443	AA	TT	TT	INTERGENIC		
SNP_33406_A_8961791	NC_021164.1	Ca_Kabuli_Chr05	8961791	AA	GG	GG	INTERGENIC		
SNP_33407_A_8961859	NC_021164.1	Ca_Kabuli_Chr05	8961859	CC	TT	TT	INTERGENIC		
SNP_33408_A_8962165	NC_021164.1	Ca_Kabuli_Chr05	8962165	CC	GG	GG	INTERGENIC		
SNP_33409_A_8962171	NC_021164.1	Ca_Kabuli_Chr05	8962171	GG	AA	AA	INTERGENIC		
SNP_33410_A_8969325	NC_021164.1	Ca_Kabuli_Chr05	8969325	AA	TT	TT	INTERGENIC		
SNP_33412_A_8970192	NC_021164.1	Ca_Kabuli_Chr05	8970192	TT	AA	AA	INTERGENIC		
SNP_33414_A_8975227	NC_021164.1	Ca_Kabuli_Chr05	8975227	TT	CC	CC	INTERGENIC		
SNP_33415_A_8975254	NC_021164.1	Ca_Kabuli_Chr05	8975254	TT	CC	CC	INTERGENIC		
SNP_33416_A_8975374	NC_021164.1	Ca_Kabuli_Chr05	8975374	TT	AA	AA	INTERGENIC		
SNP_33417_A_8975530	NC_021164.1	Ca_Kabuli_Chr05	8975530	CC	TT	TT	INTERGENIC		
SNP_33420_A_8975644	NC_021164.1	Ca_Kabuli_Chr05	8975644	CC	GG	GG	INTERGENIC		
SNP_33421_A_8975681	NC_021164.1	Ca_Kabuli_Chr05	8975681	CC	AA	AA	INTERGENIC		
SNP_33422_A_8975945	NC_021164.1	Ca_Kabuli_Chr05	8975945	TT	GG	GG	INTERGENIC		
SNP_33423_A_8975952	NC_021164.1	Ca_Kabuli_Chr05	8975952	AA	TT	TT	INTERGENIC		
SNP_33424_A_8998605	NC_021164.1	Ca_Kabuli_Chr05	8998605	AA	TT	TT	INTERGENIC		
SNP_33425_A_8998862	NC_021164.1	Ca_Kabuli_Chr05	8998862	TT	CC	CC	INTERGENIC		
SNP_33426_A_8998951	NC_021164.1	Ca_Kabuli_Chr05	8998951	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_33427_A_8999002	NC_021164.1	Ca_Kabuli_Chr05	8999002	TT	AA	AA	INTERGENIC			
SNP_33428_A_8999030	NC_021164.1	Ca_Kabuli_Chr05	8999030	TT	CC	CC	INTERGENIC			
SNP_33429_A_8999224	NC_021164.1	Ca_Kabuli_Chr05	8999224	CC	TT	TT	INTERGENIC			
SNP_33430_A_8999349	NC_021164.1	Ca_Kabuli_Chr05	8999349	CC	TT	TT	INTERGENIC			
SNP_33431_A_8999377	NC_021164.1	Ca_Kabuli_Chr05	8999377	TT	GG	GG	INTERGENIC			
SNP_33432_A_8999409	NC_021164.1	Ca_Kabuli_Chr05	8999409	GG	CC	CC	INTERGENIC			
SNP_33433_A_8999559	NC_021164.1	Ca_Kabuli_Chr05	8999559	GG	AA	AA	INTERGENIC			
SNP_33434_A_8999593	NC_021164.1	Ca_Kabuli_Chr05	8999593	TT	GG	GG	INTERGENIC			
SNP_33435_A_8999612	NC_021164.1	Ca_Kabuli_Chr05	8999612	CC	AA	AA	INTERGENIC			
SNP_33436_A_8999636	NC_021164.1	Ca_Kabuli_Chr05	8999636	GG	AA	AA	INTERGENIC			
SNP_33437_A_8999930	NC_021164.1	Ca_Kabuli_Chr05	8999930	GG	AA	AA	INTERGENIC			
SNP_33438_A_8999969	NC_021164.1	Ca_Kabuli_Chr05	8999969	CC	AA	AA	INTERGENIC			
SNP_33439_A_9000017	NC_021164.1	Ca_Kabuli_Chr05	9000017	AA	GG	GG	INTERGENIC			
SNP_33440_A_9000191	NC_021164.1	Ca_Kabuli_Chr05	9000191	CC	TT	TT	INTERGENIC			
SNP_33441_A_9001422	NC_021164.1	Ca_Kabuli_Chr05	9001422	GG	AA	AA	INTERGENIC			
SNP_33442_A_9001429	NC_021164.1	Ca_Kabuli_Chr05	9001429	GG	AA	AA	INTERGENIC			
SNP_33443_A_9001775	NC_021164.1	Ca_Kabuli_Chr05	9001775	CC	TT	TT	DRR	101497749	vacuolar-processing enzyme-like	
SNP_33444_A_9001840	NC_021164.1	Ca_Kabuli_Chr05	9001840	CC	TT	TT	DRR	101497749	vacuolar-processing enzyme-like	
SNP_33446_A_9010464	NC_021164.1	Ca_Kabuli_Chr05	9010464	AA	GG	GG	URR	101497749	vacuolar-processing enzyme-like	
SNP_33447_A_9010971	NC_021164.1	Ca_Kabuli_Chr05	9010971	TT	CC	CC	URR	101497749	vacuolar-processing enzyme-like	
SNP_33448_A_9010977	NC_021164.1	Ca_Kabuli_Chr05	9010977	CC	TT	TT	URR	101497749	vacuolar-processing enzyme-like	
SNP_33449_A_9011022	NC_021164.1	Ca_Kabuli_Chr05	9011022	TT	CC	CC	URR	101497749	vacuolar-processing enzyme-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33450_A_9011973	NC_021164.1	Ca_Kabuli_Chr05	9011973	CC	TT	TT	INTERGENIC		
SNP_33451_A_9012055	NC_021164.1	Ca_Kabuli_Chr05	9012055	AA	GG	GG	INTERGENIC		
SNP_33452_A_9012314	NC_021164.1	Ca_Kabuli_Chr05	9012314	GG	AA	AA	INTERGENIC		
SNP_33453_A_9012625	NC_021164.1	Ca_Kabuli_Chr05	9012625	CC	TT	TT	INTERGENIC		
SNP_33454_A_9012869	NC_021164.1	Ca_Kabuli_Chr05	9012869	CC	TT	TT	INTERGENIC		
SNP_33455_A_9013201	NC_021164.1	Ca_Kabuli_Chr05	9013201	TT	AA	AA	INTERGENIC		
SNP_33456_A_9015104	NC_021164.1	Ca_Kabuli_Chr05	9015104	CC	TT	TT	INTERGENIC		
SNP_33457_A_9015123	NC_021164.1	Ca_Kabuli_Chr05	9015123	TT	GG	GG	INTERGENIC		
SNP_33459_A_9015495	NC_021164.1	Ca_Kabuli_Chr05	9015495	AA	GG	GG	INTERGENIC		
SNP_33461_A_9016226	NC_021164.1	Ca_Kabuli_Chr05	9016226	GG	AA	AA	INTERGENIC		
SNP_33462_A_9016247	NC_021164.1	Ca_Kabuli_Chr05	9016247	CC	TT	TT	INTERGENIC		
SNP_33463_A_9016283	NC_021164.1	Ca_Kabuli_Chr05	9016283	CC	AA	AA	INTERGENIC		
SNP_33465_A_9016396	NC_021164.1	Ca_Kabuli_Chr05	9016396	GG	TT	TT	INTERGENIC		
SNP_33466_A_9018695	NC_021164.1	Ca_Kabuli_Chr05	9018695	AA	GG	GG	INTERGENIC		
SNP_33467_A_9020744	NC_021164.1	Ca_Kabuli_Chr05	9020744	TT	GG	GG	INTERGENIC		
SNP_33468_A_9022035	NC_021164.1	Ca_Kabuli_Chr05	9022035	GG	TT	TT	INTERGENIC		
SNP_33469_A_9028866	NC_021164.1	Ca_Kabuli_Chr05	9028866	TT	CC	CC	DRR	101492214	hexose carrier protein HEX6
SNP_33471_A_9034454	NC_021164.1	Ca_Kabuli_Chr05	9034454	AA	GG	GG	INTERGENIC		
SNP_33473_A_9078195	NC_021164.1	Ca_Kabuli_Chr05	9078195	GG	AA	AA	INTRON	101492879	prohibitin-3, mitochondrial
SNP_33474_A_9078200	NC_021164.1	Ca_Kabuli_Chr05	9078200	TT	CC	CC	INTRON	101492879	prohibitin-3, mitochondrial
SNP_33475_A_9078219	NC_021164.1	Ca_Kabuli_Chr05	9078219	TT	CC	CC	INTRON	101492879	prohibitin-3, mitochondrial
SNP_33476_A_9090753	NC_021164.1	Ca_Kabuli_Chr05	9090753	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33477_A_9091072	NC_021164.1	Ca_Kabuli_Chr05	9091072	AA	GG	GG	INTERGENIC		
SNP_33478_A_9091601	NC_021164.1	Ca_Kabuli_Chr05	9091601	CC	TT	TT	INTERGENIC		
SNP_33479_A_9091617	NC_021164.1	Ca_Kabuli_Chr05	9091617	AA	GG	GG	INTERGENIC		
SNP_33480_A_9091726	NC_021164.1	Ca_Kabuli_Chr05	9091726	TT	GG	GG	INTERGENIC		
SNP_33482_A_9092276	NC_021164.1	Ca_Kabuli_Chr05	9092276	GG	AA	AA	INTERGENIC		
SNP_33484_A_9092459	NC_021164.1	Ca_Kabuli_Chr05	9092459	TT	GG	GG	INTERGENIC		
SNP_33485_A_9093457	NC_021164.1	Ca_Kabuli_Chr05	9093457	CC	TT	TT	INTERGENIC		
SNP_33486_A_9099393	NC_021164.1	Ca_Kabuli_Chr05	9099393	TT	CC	CC	INTERGENIC		
SNP_33487_A_9099527	NC_021164.1	Ca_Kabuli_Chr05	9099527	CC	TT	TT	INTERGENIC		
SNP_33488_A_9099560	NC_021164.1	Ca_Kabuli_Chr05	9099560	CC	TT	TT	INTERGENIC		
SNP_33489_A_9100561	NC_021164.1	Ca_Kabuli_Chr05	9100561	AA	TT	TT	INTERGENIC		
SNP_33490_A_9100695	NC_021164.1	Ca_Kabuli_Chr05	9100695	CC	AA	AA	INTERGENIC		
SNP_33491_A_9101289	NC_021164.1	Ca_Kabuli_Chr05	9101289	AA	GG	GG	INTERGENIC		
SNP_33492_A_9103315	NC_021164.1	Ca_Kabuli_Chr05	9103315	TT	CC	CC	INTERGENIC		
SNP_33493_A_9107335	NC_021164.1	Ca_Kabuli_Chr05	9107335	CC	TT	TT	DRR	101493210	ceramide kinase
SNP_33494_A_9108483	NC_021164.1	Ca_Kabuli_Chr05	9108483	GG	TT	TT	INTRON	101493210	ceramide kinase
SNP_33495_A_9112290	NC_021164.1	Ca_Kabuli_Chr05	9112290	AA	GG	GG	INTRON	101493210	ceramide kinase
SNP_33497_A_9114210	NC_021164.1	Ca_Kabuli_Chr05	9114210	CC	GG	GG	INTRON	101493210	ceramide kinase
SNP_33498_A_9122114	NC_021164.1	Ca_Kabuli_Chr05	9122114	AA	TT	TT	INTERGENIC		
SNP_33501_A_9129206	NC_021164.1	Ca_Kabuli_Chr05	9129206	GG	CC	CC	INTRON	101493749	U-box domain-containing protein 35-like
SNP_33502_A_9129257	NC_021164.1	Ca_Kabuli_Chr05	9129257	TT	CC	CC	INTRON	101493749	U-box domain-containing protein 35-like
SNP_33503_A_9129898	NC_021164.1	Ca_Kabuli_Chr05	9129898	CC	GG	GG	INTRON	101493749	U-box domain-containing protein 35-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33505_A_9132913	NC_021164.1	Ca_Kabuli_Chr05	9132913	TT	GG	GG	INTRON	101493749	U-box domain-containing protein 35-like
SNP_33506_A_9133426	NC_021164.1	Ca_Kabuli_Chr05	9133426	CC	TT	TT	URR	101493749	U-box domain-containing protein 35-like
SNP_33508_A_9135845	NC_021164.1	Ca_Kabuli_Chr05	9135845	CC	TT	TT	INTERGENIC		
SNP_33509_A_9135924	NC_021164.1	Ca_Kabuli_Chr05	9135924	TT	AA	AA	INTERGENIC		
SNP_33510_A_9136147	NC_021164.1	Ca_Kabuli_Chr05	9136147	TT	AA	AA	INTERGENIC		
SNP_33511_A_9136538	NC_021164.1	Ca_Kabuli_Chr05	9136538	TT	AA	AA	INTERGENIC		
SNP_33512_A_9136565	NC_021164.1	Ca_Kabuli_Chr05	9136565	GG	CC	CC	INTERGENIC		
SNP_33513_A_9136584	NC_021164.1	Ca_Kabuli_Chr05	9136584	CC	TT	TT	INTERGENIC		
SNP_33514_A_9138266	NC_021164.1	Ca_Kabuli_Chr05	9138266	AA	TT	TT	INTERGENIC		
SNP_33515_A_9138401	NC_021164.1	Ca_Kabuli_Chr05	9138401	GG	AA	AA	INTERGENIC		
SNP_33516_A_9138444	NC_021164.1	Ca_Kabuli_Chr05	9138444	CC	TT	TT	INTERGENIC		
SNP_33517_A_9138510	NC_021164.1	Ca_Kabuli_Chr05	9138510	TT	CC	CC	INTERGENIC		
SNP_33519_A_9140929	NC_021164.1	Ca_Kabuli_Chr05	9140929	TT	CC	CC	INTERGENIC		
SNP_33520_A_9141015	NC_021164.1	Ca_Kabuli_Chr05	9141015	CC	TT	TT	INTERGENIC		
SNP_33521_A_9141102	NC_021164.1	Ca_Kabuli_Chr05	9141102	AA	GG	GG	INTERGENIC		
SNP_33522_A_9141436	NC_021164.1	Ca_Kabuli_Chr05	9141436	CC	TT	TT	INTERGENIC		
SNP_33523_A_9141496	NC_021164.1	Ca_Kabuli_Chr05	9141496	CC	TT	TT	INTERGENIC		
SNP_33524_A_9141528	NC_021164.1	Ca_Kabuli_Chr05	9141528	TT	CC	CC	INTERGENIC		
SNP_33525_A_9141623	NC_021164.1	Ca_Kabuli_Chr05	9141623	AA	TT	TT	INTERGENIC		
SNP_33526_A_9141633	NC_021164.1	Ca_Kabuli_Chr05	9141633	CC	TT	TT	INTERGENIC		
SNP_33527_A_9141639	NC_021164.1	Ca_Kabuli_Chr05	9141639	CC	TT	TT	INTERGENIC		
SNP_33528_A_9143143	NC_021164.1	Ca_Kabuli_Chr05	9143143	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33529_A_9143149	NC_021164.1	Ca_Kabuli_Chr05	9143149	AA	CC	CC	INTERGENIC		
SNP_33531_A_9144965	NC_021164.1	Ca_Kabuli_Chr05	9144965	GG	AA	AA	INTERGENIC		
SNP_33532_A_9146302	NC_021164.1	Ca_Kabuli_Chr05	9146302	GG	AA	AA	INTERGENIC		
SNP_33533_A_9146372	NC_021164.1	Ca_Kabuli_Chr05	9146372	GG	AA	AA	INTERGENIC		
SNP_33534_A_9147957	NC_021164.1	Ca_Kabuli_Chr05	9147957	CC	TT	TT	INTERGENIC		
SNP_33535_A_9147960	NC_021164.1	Ca_Kabuli_Chr05	9147960	CC	TT	TT	INTERGENIC		
SNP_33536_A_9148804	NC_021164.1	Ca_Kabuli_Chr05	9148804	TT	CC	CC	INTERGENIC		
SNP_33538_A_9149101	NC_021164.1	Ca_Kabuli_Chr05	9149101	GG	AA	AA	INTERGENIC		
SNP_33539_A_9149913	NC_021164.1	Ca_Kabuli_Chr05	9149913	AA	CC	CC	INTERGENIC		
SNP_33540_A_9150885	NC_021164.1	Ca_Kabuli_Chr05	9150885	CC	TT	TT	INTERGENIC		
SNP_33541_A_9151801	NC_021164.1	Ca_Kabuli_Chr05	9151801	AA	TT	TT	DRR	101494906	U-box domain-containing protein 35-like
SNP_33542_A_9151951	NC_021164.1	Ca_Kabuli_Chr05	9151951	CC	TT	TT	DRR	101494906	U-box domain-containing protein 35-like
SNP_33543_A_9151957	NC_021164.1	Ca_Kabuli_Chr05	9151957	AA	GG	GG	DRR	101494906	U-box domain-containing protein 35-like
SNP_33544_A_9152013	NC_021164.1	Ca_Kabuli_Chr05	9152013	CC	TT	TT	DRR	101494906	U-box domain-containing protein 35-like
SNP_33545_A_9157999	NC_021164.1	Ca_Kabuli_Chr05	9157999	GG	AA	AA	INTRON	101494906	U-box domain-containing protein 35-like
SNP_33546_A_9159190	NC_021164.1	Ca_Kabuli_Chr05	9159190	CC	GG	GG	INTRON	101494906	U-box domain-containing protein 35-like
SNP_33547_A_9163253	NC_021164.1	Ca_Kabuli_Chr05	9163253	AA	CC	CC	INTERGENIC		
SNP_33550_A_9163879	NC_021164.1	Ca_Kabuli_Chr05	9163879	CC	AA	AA	INTERGENIC		
SNP_33551_A_9164335	NC_021164.1	Ca_Kabuli_Chr05	9164335	TT	CC	CC	INTERGENIC		
SNP_33552_A_9164336	NC_021164.1	Ca_Kabuli_Chr05	9164336	GG	AA	AA	INTERGENIC		
SNP_33553_A_9164398	NC_021164.1	Ca_Kabuli_Chr05	9164398	GG	AA	AA	INTERGENIC		
SNP_33554_A_9164617	NC_021164.1	Ca_Kabuli_Chr05	9164617	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33555_A_9164637	NC_021164.1	Ca_Kabuli_Chr05	9164637	GG	AA	AA	INTERGENIC		
SNP_33556_A_9164640	NC_021164.1	Ca_Kabuli_Chr05	9164640	GG	AA	AA	INTERGENIC		
SNP_33557_A_9164645	NC_021164.1	Ca_Kabuli_Chr05	9164645	CC	TT	TT	INTERGENIC		
SNP_33558_A_9171563	NC_021164.1	Ca_Kabuli_Chr05	9171563	AA	GG	GG	SYNONYMOUS_CODING	101495454	derlin-1.1-like
SNP_33559_A_9171566	NC_021164.1	Ca_Kabuli_Chr05	9171566	AA	GG	GG	SYNONYMOUS_CODING	101495454	derlin-1.1-like
SNP_33561_A_9173039	NC_021164.1	Ca_Kabuli_Chr05	9173039	TT	CC	CC	INTRON	101495454	derlin-1.1-like
SNP_33562_A_9173042	NC_021164.1	Ca_Kabuli_Chr05	9173042	TT	CC	CC	INTRON	101495454	derlin-1.1-like
SNP_33563_A_9174891	NC_021164.1	Ca_Kabuli_Chr05	9174891	TT	CC	CC	URR	101495454	derlin-1.1-like
SNP_33564_A_9177148	NC_021164.1	Ca_Kabuli_Chr05	9177148	CC	TT	TT	INTERGENIC		
SNP_33565_A_9177541	NC_021164.1	Ca_Kabuli_Chr05	9177541	AA	GG	GG	INTERGENIC		
SNP_33566_A_9178334	NC_021164.1	Ca_Kabuli_Chr05	9178334	GG	AA	AA	INTERGENIC		
SNP_33567_A_9180034	NC_021164.1	Ca_Kabuli_Chr05	9180034	GG	AA	AA	INTRON	101495783	cell number regulator 6
SNP_33568_A_9180745	NC_021164.1	Ca_Kabuli_Chr05	9180745	AA	TT	TT	INTRON	101495783	cell number regulator 6
SNP_33569_A_9184673	NC_021164.1	Ca_Kabuli_Chr05	9184673	AA	TT	TT	URR	101495783	cell number regulator 6
SNP_33570_A_9184695	NC_021164.1	Ca_Kabuli_Chr05	9184695	AA	GG	GG	URR	101495783	cell number regulator 6
SNP_33571_A_9184718	NC_021164.1	Ca_Kabuli_Chr05	9184718	GG	AA	AA	URR	101495783	cell number regulator 6
SNP_33572_A_9184925	NC_021164.1	Ca_Kabuli_Chr05	9184925	GG	CC	CC	URR	101495783	cell number regulator 6
SNP_33573_A_9184952	NC_021164.1	Ca_Kabuli_Chr05	9184952	GG	AA	AA	URR	101495783	cell number regulator 6
SNP_33574_A_9185180	NC_021164.1	Ca_Kabuli_Chr05	9185180	TT	AA	AA	URR	101495783	cell number regulator 6
SNP_33575_A_9187695	NC_021164.1	Ca_Kabuli_Chr05	9187695	CC	TT	TT	INTERGENIC		
SNP_33576_A_9188466	NC_021164.1	Ca_Kabuli_Chr05	9188466	CC	GG	GG	INTERGENIC		
SNP_33577_A_9188660	NC_021164.1	Ca_Kabuli_Chr05	9188660	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33578_A_9188680	NC_021164.1	Ca_Kabuli_Chr05	9188680	CC	TT	TT	INTERGENIC		
SNP_33579_A_9188840	NC_021164.1	Ca_Kabuli_Chr05	9188840	AA	TT	TT	INTERGENIC		
SNP_33580_A_9194036	NC_021164.1	Ca_Kabuli_Chr05	9194036	AA	GG	GG	INTERGENIC		
SNP_33581_A_9194076	NC_021164.1	Ca_Kabuli_Chr05	9194076	TT	CC	CC	INTERGENIC		
SNP_33583_A_9212652	NC_021164.1	Ca_Kabuli_Chr05	9212652	TT	GG	GG	NON_SYNONYMOUS_CODING	101496105	deoxyhypusine synthase-like
SNP_33584_A_9213096	NC_021164.1	Ca_Kabuli_Chr05	9213096	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33585_A_9215112	NC_021164.1	Ca_Kabuli_Chr05	9215112	TT	CC	CC	INTRON	101496105	deoxyhypusine synthase-like
SNP_33586_A_9215762	NC_021164.1	Ca_Kabuli_Chr05	9215762	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33587_A_9216597	NC_021164.1	Ca_Kabuli_Chr05	9216597	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33588_A_9217365	NC_021164.1	Ca_Kabuli_Chr05	9217365	CC	TT	TT	INTRON	101496105	deoxyhypusine synthase-like
SNP_33589_A_9217597	NC_021164.1	Ca_Kabuli_Chr05	9217597	GG	CC	CC	INTRON	101496105	deoxyhypusine synthase-like
SNP_33590_A_9217611	NC_021164.1	Ca_Kabuli_Chr05	9217611	GG	TT	TT	INTRON	101496105	deoxyhypusine synthase-like
SNP_33591_A_9217626	NC_021164.1	Ca_Kabuli_Chr05	9217626	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33592_A_9217634	NC_021164.1	Ca_Kabuli_Chr05	9217634	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33593_A_9217849	NC_021164.1	Ca_Kabuli_Chr05	9217849	AA	GG	GG	INTRON	101496105	deoxyhypusine synthase-like
SNP_33594_A_9222896	NC_021164.1	Ca_Kabuli_Chr05	9222896	GG	TT	TT	INTERGENIC		
SNP_33595_A_9230556	NC_021164.1	Ca_Kabuli_Chr05	9230556	CC	GG	GG	NON_SYNONYMOUS_CODING	101496437	peroxisomal (S)-2-hydroxy-acid oxidase-like
SNP_33597_A_9231116	NC_021164.1	Ca_Kabuli_Chr05	9231116	CC	TT	TT	URR	101496437	peroxisomal (S)-2-hydroxy-acid oxidase-like
SNP_33598_A_9231526	NC_021164.1	Ca_Kabuli_Chr05	9231526	AA	GG	GG	URR	101496437	peroxisomal (S)-2-hydroxy-acid oxidase-like
SNP_33599_A_9231804	NC_021164.1	Ca_Kabuli_Chr05	9231804	CC	TT	TT	URR	101496437	peroxisomal (S)-2-hydroxy-acid oxidase-like
SNP_33600_A_9231811	NC_021164.1	Ca_Kabuli_Chr05	9231811	TT	AA	AA	URR	101496437	peroxisomal (S)-2-hydroxy-acid oxidase-like
SNP_33602_A_9233316	NC_021164.1	Ca_Kabuli_Chr05	9233316	AA	CC	CC	DRR	101499998	pentatricopeptide repeat-containing protein At5g66520-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33603_A_9237651	NC_021164.1	Ca_Kabuli_Chr05	9237651	GG	AA	AA	INTERGENIC		
SNP_33604_A_9239102	NC_021164.1	Ca_Kabuli_Chr05	9239102	GG	AA	AA	INTERGENIC		
SNP_33606_A_9308035	NC_021164.1	Ca_Kabuli_Chr05	9308035	CC	AA	AA	INTRON	101497082	uncharacterized LOC101497082
SNP_33607_A_9345344	NC_021164.1	Ca_Kabuli_Chr05	9345344	AA	TT	TT	INTERGENIC		
SNP_33608_A_9345768	NC_021164.1	Ca_Kabuli_Chr05	9345768	TT	CC	CC	INTERGENIC		
SNP_33609_A_9346837	NC_021164.1	Ca_Kabuli_Chr05	9346837	AA	TT	TT	INTERGENIC		
SNP_33610_A_9348548	NC_021164.1	Ca_Kabuli_Chr05	9348548	AA	GG	GG	INTERGENIC		
SNP_33613_A_9349873	NC_021164.1	Ca_Kabuli_Chr05	9349873	AA	GG	GG	INTERGENIC		
SNP_33614_A_9350035	NC_021164.1	Ca_Kabuli_Chr05	9350035	GG	TT	TT	DRR	101500653	actin-related protein 8-like
SNP_33615_A_9350668	NC_021164.1	Ca_Kabuli_Chr05	9350668	CC	TT	TT	DRR	101500653	actin-related protein 8-like
SNP_33617_A_9354102	NC_021164.1	Ca_Kabuli_Chr05	9354102	AA	GG	GG	INTRON	101500653	actin-related protein 8-like
SNP_33618_A_9360903	NC_021164.1	Ca_Kabuli_Chr05	9360903	GG	AA	AA	INTRON	101500653	actin-related protein 8-like
SNP_33619_A_9360920	NC_021164.1	Ca_Kabuli_Chr05	9360920	GG	AA	AA	INTRON	101500653	actin-related protein 8-like
SNP_33622_A_9361466	NC_021164.1	Ca_Kabuli_Chr05	9361466	CC	AA	AA	URR	101500653	actin-related protein 8-like
SNP_33624_A_9361892	NC_021164.1	Ca_Kabuli_Chr05	9361892	AA	GG	GG	URR	101500653	actin-related protein 8-like
SNP_33625_A_9362039	NC_021164.1	Ca_Kabuli_Chr05	9362039	GG	CC	CC	URR	101500653	actin-related protein 8-like
SNP_33626_A_9362149	NC_021164.1	Ca_Kabuli_Chr05	9362149	CC	TT	TT	URR	101500653	actin-related protein 8-like
SNP_33627_A_9362887	NC_021164.1	Ca_Kabuli_Chr05	9362887	TT	CC	CC	URR	101500653	actin-related protein 8-like
SNP_33628_A_9362913	NC_021164.1	Ca_Kabuli_Chr05	9362913	AA	GG	GG	URR	101500653	actin-related protein 8-like
SNP_33629_A_9362914	NC_021164.1	Ca_Kabuli_Chr05	9362914	GG	AA	AA	URR	101500653	actin-related protein 8-like
SNP_33630_A_9362958	NC_021164.1	Ca_Kabuli_Chr05	9362958	GG	AA	AA	URR	101500653	actin-related protein 8-like
SNP_33631_A_9362965	NC_021164.1	Ca_Kabuli_Chr05	9362965	GG	TT	TT	URR	101500653	actin-related protein 8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33632_A_9363156	NC_021164.1	Ca_Kabuli_Chr05	9363156	AA	GG	GG	URR	101500653	actin-related protein 8-like
SNP_33633_A_9363192	NC_021164.1	Ca_Kabuli_Chr05	9363192	GG	CC	CC	URR	101500653	actin-related protein 8-like
SNP_33634_A_9363200	NC_021164.1	Ca_Kabuli_Chr05	9363200	CC	AA	AA	URR	101500653	actin-related protein 8-like
SNP_33635_A_9363228	NC_021164.1	Ca_Kabuli_Chr05	9363228	TT	CC	CC	URR	101500653	actin-related protein 8-like
SNP_33636_A_9363238	NC_021164.1	Ca_Kabuli_Chr05	9363238	GG	CC	CC	URR	101500653	actin-related protein 8-like
SNP_33637_A_9363261	NC_021164.1	Ca_Kabuli_Chr05	9363261	CC	TT	TT	URR	101500653	actin-related protein 8-like
SNP_33638_A_9363451	NC_021164.1	Ca_Kabuli_Chr05	9363451	CC	TT	TT	INTERGENIC		
SNP_33639_A_9363475	NC_021164.1	Ca_Kabuli_Chr05	9363475	TT	GG	GG	INTERGENIC		
SNP_33640_A_9363715	NC_021164.1	Ca_Kabuli_Chr05	9363715	AA	GG	GG	INTERGENIC		
SNP_33642_A_9365865	NC_021164.1	Ca_Kabuli_Chr05	9365865	GG	CC	CC	INTERGENIC		
SNP_33643_A_9365889	NC_021164.1	Ca_Kabuli_Chr05	9365889	TT	CC	CC	INTERGENIC		
SNP_33644_A_9365934	NC_021164.1	Ca_Kabuli_Chr05	9365934	GG	AA	AA	INTERGENIC		
SNP_33645_A_9366003	NC_021164.1	Ca_Kabuli_Chr05	9366003	GG	AA	AA	DRR	101500965	Unknown function
SNP_33646_A_9366183	NC_021164.1	Ca_Kabuli_Chr05	9366183	AA	TT	TT	DRR	101500965	Unknown function
SNP_33647_A_9366210	NC_021164.1	Ca_Kabuli_Chr05	9366210	TT	AA	AA	DRR	101500965	Unknown function
SNP_33648_A_9366262	NC_021164.1	Ca_Kabuli_Chr05	9366262	AA	GG	GG	DRR	101500965	Unknown function
SNP_33649_A_9366291	NC_021164.1	Ca_Kabuli_Chr05	9366291	TT	CC	CC	DRR	101500965	Unknown function
SNP_33650_A_9366330	NC_021164.1	Ca_Kabuli_Chr05	9366330	TT	AA	AA	DRR	101500965	Unknown function
SNP_33651_A_9381811	NC_021164.1	Ca_Kabuli_Chr05	9381811	CC	TT	TT	INTERGENIC		
SNP_33652_A_9382672	NC_021164.1	Ca_Kabuli_Chr05	9382672	TT	AA	AA	INTERGENIC		
SNP_33653_A_9382674	NC_021164.1	Ca_Kabuli_Chr05	9382674	CC	TT	TT	INTERGENIC		
SNP_33654_A_9384005	NC_021164.1	Ca_Kabuli_Chr05	9384005	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33655_A_9384312	NC_021164.1	Ca_Kabuli_Chr05	9384312	GG	TT	TT	INTERGENIC		
SNP_33656_A_9393409	NC_021164.1	Ca_Kabuli_Chr05	9393409	AA	GG	GG	INTRON	101501283	receptor-like protein kinase FERONIA
SNP_33657_A_9403081	NC_021164.1	Ca_Kabuli_Chr05	9403081	AA	GG	GG	URR	101501283	receptor-like protein kinase FERONIA
SNP_33658_A_9403091	NC_021164.1	Ca_Kabuli_Chr05	9403091	AA	TT	TT	URR	101501283	receptor-like protein kinase FERONIA
SNP_33659_A_9403160	NC_021164.1	Ca_Kabuli_Chr05	9403160	GG	AA	AA	INTERGENIC		
SNP_33660_A_9403166	NC_021164.1	Ca_Kabuli_Chr05	9403166	TT	AA	AA	INTERGENIC		
SNP_33661_A_9403187	NC_021164.1	Ca_Kabuli_Chr05	9403187	CC	TT	TT	INTERGENIC		
SNP_33662_A_9403389	NC_021164.1	Ca_Kabuli_Chr05	9403389	TT	CC	CC	INTERGENIC		
SNP_33663_A_9403409	NC_021164.1	Ca_Kabuli_Chr05	9403409	AA	TT	TT	INTERGENIC		
SNP_33665_A_9403491	NC_021164.1	Ca_Kabuli_Chr05	9403491	TT	CC	CC	INTERGENIC		
SNP_33666_A_9403605	NC_021164.1	Ca_Kabuli_Chr05	9403605	AA	CC	CC	INTERGENIC		
SNP_33667_A_9403641	NC_021164.1	Ca_Kabuli_Chr05	9403641	CC	AA	AA	INTERGENIC		
SNP_33668_A_9405880	NC_021164.1	Ca_Kabuli_Chr05	9405880	TT	GG	GG	INTERGENIC		
SNP_33669_A_9405889	NC_021164.1	Ca_Kabuli_Chr05	9405889	TT	CC	CC	INTERGENIC		
SNP_33670_A_9409189	NC_021164.1	Ca_Kabuli_Chr05	9409189	GG	AA	AA	INTERGENIC		
SNP_33671_A_9416493	NC_021164.1	Ca_Kabuli_Chr05	9416493	TT	GG	GG	URR	101501602	receptor-like protein kinase FERONIA
SNP_33672_A_9416536	NC_021164.1	Ca_Kabuli_Chr05	9416536	GG	TT	TT	URR	101501602	receptor-like protein kinase FERONIA
SNP_33673_A_9416566	NC_021164.1	Ca_Kabuli_Chr05	9416566	AA	CC	CC	URR	101501602	receptor-like protein kinase FERONIA
SNP_33674_A_9416641	NC_021164.1	Ca_Kabuli_Chr05	9416641	AA	GG	GG	URR	101501602	receptor-like protein kinase FERONIA
SNP_33676_A_9422826	NC_021164.1	Ca_Kabuli_Chr05	9422826	AA	CC	CC	INTERGENIC		
SNP_33677_A_9433389	NC_021164.1	Ca_Kabuli_Chr05	9433389	GG	TT	TT	INTERGENIC		
SNP_33678_A_9433577	NC_021164.1	Ca_Kabuli_Chr05	9433577	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33679_A_9433587	NC_021164.1	Ca_Kabuli_Chr05	9433587	TT	GG	GG	INTERGENIC		
SNP_33680_A_9433683	NC_021164.1	Ca_Kabuli_Chr05	9433683	AA	GG	GG	INTERGENIC		
SNP_33681_A_9433699	NC_021164.1	Ca_Kabuli_Chr05	9433699	AA	CC	CC	INTERGENIC		
SNP_33683_A_9436449	NC_021164.1	Ca_Kabuli_Chr05	9436449	GG	AA	AA	INTRON	101501914	QWRF motif-containing protein 7
SNP_33684_A_9436923	NC_021164.1	Ca_Kabuli_Chr05	9436923	CC	GG	GG	INTRON	101501914	QWRF motif-containing protein 7
SNP_33685_A_9436938	NC_021164.1	Ca_Kabuli_Chr05	9436938	TT	CC	CC	INTRON	101501914	QWRF motif-containing protein 7
SNP_33686_A_9436949	NC_021164.1	Ca_Kabuli_Chr05	9436949	CC	TT	TT	INTRON	101501914	QWRF motif-containing protein 7
SNP_33687_A_9440120	NC_021164.1	Ca_Kabuli_Chr05	9440120	AA	GG	GG	URR	101501914	QWRF motif-containing protein 7
SNP_33688_A_9441126	NC_021164.1	Ca_Kabuli_Chr05	9441126	GG	TT	TT	INTERGENIC		
SNP_33691_A_9467705	NC_021164.1	Ca_Kabuli_Chr05	9467705	AA	GG	GG	INTERGENIC		
SNP_33692_A_9467778	NC_021164.1	Ca_Kabuli_Chr05	9467778	TT	AA	AA	INTERGENIC		
SNP_33693_A_9467818	NC_021164.1	Ca_Kabuli_Chr05	9467818	AA	GG	GG	INTERGENIC		
SNP_33694_A_9467905	NC_021164.1	Ca_Kabuli_Chr05	9467905	AA	GG	GG	INTERGENIC		
SNP_33696_A_9467998	NC_021164.1	Ca_Kabuli_Chr05	9467998	AA	GG	GG	INTERGENIC		
SNP_33697_A_9468232	NC_021164.1	Ca_Kabuli_Chr05	9468232	TT	CC	CC	INTERGENIC		
SNP_33698_A_9470460	NC_021164.1	Ca_Kabuli_Chr05	9470460	AA	CC	CC	INTERGENIC		
SNP_33699_A_9470461	NC_021164.1	Ca_Kabuli_Chr05	9470461	CC	AA	AA	INTERGENIC		
SNP_33700_A_9475081	NC_021164.1	Ca_Kabuli_Chr05	9475081	AA	TT	TT	INTRON	101506637	beta-fructofuranosidase, soluble isoenzyme I-like
SNP_33701_A_9475094	NC_021164.1	Ca_Kabuli_Chr05	9475094	AA	TT	TT	INTRON	101506637	beta-fructofuranosidase, soluble isoenzyme I-like
SNP_33702_A_9478500	NC_021164.1	Ca_Kabuli_Chr05	9478500	TT	AA	AA	INTRON	101506637	beta-fructofuranosidase, soluble isoenzyme I-like
SNP_33703_A_9478507	NC_021164.1	Ca_Kabuli_Chr05	9478507	CC	TT	TT	INTRON	101506637	beta-fructofuranosidase, soluble isoenzyme I-like
SNP_33704_A_9483088	NC_021164.1	Ca_Kabuli_Chr05	9483088	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33705_A_9506131	NC_021164.1	Ca_Kabuli_Chr05	9506131	GG	AA	AA	INTERGENIC		
SNP_33706_A_9506146	NC_021164.1	Ca_Kabuli_Chr05	9506146	AA	GG	GG	INTERGENIC		
SNP_33707_A_9506379	NC_021164.1	Ca_Kabuli_Chr05	9506379	TT	CC	CC	INTERGENIC		
SNP_33708_A_9506447	NC_021164.1	Ca_Kabuli_Chr05	9506447	AA	GG	GG	INTERGENIC		
SNP_33709_A_9506700	NC_021164.1	Ca_Kabuli_Chr05	9506700	CC	TT	TT	INTERGENIC		
SNP_33710_A_9506965	NC_021164.1	Ca_Kabuli_Chr05	9506965	TT	CC	CC	INTERGENIC		
SNP_33711_A_9507031	NC_021164.1	Ca_Kabuli_Chr05	9507031	TT	GG	GG	INTERGENIC		
SNP_33712_A_9507879	NC_021164.1	Ca_Kabuli_Chr05	9507879	AA	GG	GG	URR	101502245	uncharacterized LOC101502245
SNP_33713_A_9508032	NC_021164.1	Ca_Kabuli_Chr05	9508032	AA	GG	GG	URR	101502245	uncharacterized LOC101502245
SNP_33714_A_9508330	NC_021164.1	Ca_Kabuli_Chr05	9508330	AA	CC	CC	URR	101502245	uncharacterized LOC101502245
SNP_33715_A_9508764	NC_021164.1	Ca_Kabuli_Chr05	9508764	TT	GG	GG	URR	101502245	uncharacterized LOC101502245
SNP_33716_A_9518568	NC_021164.1	Ca_Kabuli_Chr05	9518568	AA	CC	CC	INTERGENIC		
SNP_33717_A_9519517	NC_021164.1	Ca_Kabuli_Chr05	9519517	AA	GG	GG	INTERGENIC		
SNP_33720_A_9524074	NC_021164.1	Ca_Kabuli_Chr05	9524074	AA	GG	GG	INTERGENIC		
SNP_33722_A_9524304	NC_021164.1	Ca_Kabuli_Chr05	9524304	GG	AA	AA	INTERGENIC		
SNP_33723_A_9529918	NC_021164.1	Ca_Kabuli_Chr05	9529918	TT	GG	GG	INTERGENIC		
SNP_33724_A_9529941	NC_021164.1	Ca_Kabuli_Chr05	9529941	CC	TT	TT	INTERGENIC		
SNP_33725_A_9532896	NC_021164.1	Ca_Kabuli_Chr05	9532896	GG	TT	TT	INTERGENIC		
SNP_33726_A_9534448	NC_021164.1	Ca_Kabuli_Chr05	9534448	TT	CC	CC	INTERGENIC		
SNP_33727_A_9534487	NC_021164.1	Ca_Kabuli_Chr05	9534487	AA	CC	CC	INTERGENIC		
SNP_33728_A_9534615	NC_021164.1	Ca_Kabuli_Chr05	9534615	AA	TT	TT	INTERGENIC		
SNP_33729_A_9534797	NC_021164.1	Ca_Kabuli_Chr05	9534797	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33730_A_9534807	NC_021164.1	Ca_Kabuli_Chr05	9534807	TT	AA	AA	INTERGENIC		
SNP_33731_A_9534866	NC_021164.1	Ca_Kabuli_Chr05	9534866	CC	TT	TT	INTERGENIC		
SNP_33732_A_9535115	NC_021164.1	Ca_Kabuli_Chr05	9535115	TT	CC	CC	INTERGENIC		
SNP_33733_A_9535195	NC_021164.1	Ca_Kabuli_Chr05	9535195	TT	CC	CC	INTERGENIC		
SNP_33735_A_9535488	NC_021164.1	Ca_Kabuli_Chr05	9535488	CC	TT	TT	INTERGENIC		
SNP_33736_A_9536531	NC_021164.1	Ca_Kabuli_Chr05	9536531	TT	GG	GG	DRR	101503206	molybdopterin synthase sulfur carrier subunit
SNP_33737_A_9544712	NC_021164.1	Ca_Kabuli_Chr05	9544712	TT	CC	CC	INTRON	101507297	serine/threonine-protein phosphatase 7 long form homolog
SNP_33738_A_9544974	NC_021164.1	Ca_Kabuli_Chr05	9544974	GG	TT	TT	INTRON	101507297	serine/threonine-protein phosphatase 7 long form homolog
SNP_33739_A_9558055	NC_021164.1	Ca_Kabuli_Chr05	9558055	AA	TT	TT	INTERGENIC		
SNP_33740_A_9558145	NC_021164.1	Ca_Kabuli_Chr05	9558145	TT	AA	AA	INTERGENIC		
SNP_33742_A_9563570	NC_021164.1	Ca_Kabuli_Chr05	9563570	CC	TT	TT	INTERGENIC		
SNP_33743_A_9569654	NC_021164.1	Ca_Kabuli_Chr05	9569654	AA	TT	TT	URR	101504066	pectinesterase-like
SNP_33744_A_9569672	NC_021164.1	Ca_Kabuli_Chr05	9569672	GG	AA	AA	URR	101504066	pectinesterase-like
SNP_33745_A_9569690	NC_021164.1	Ca_Kabuli_Chr05	9569690	GG	AA	AA	URR	101504066	pectinesterase-like
SNP_33746_A_9569712	NC_021164.1	Ca_Kabuli_Chr05	9569712	AA	GG	GG	URR	101504066	pectinesterase-like
SNP_33747_A_9569934	NC_021164.1	Ca_Kabuli_Chr05	9569934	AA	GG	GG	URR	101504066	pectinesterase-like
SNP_33748_A_9570663	NC_021164.1	Ca_Kabuli_Chr05	9570663	AA	GG	GG	URR	101504066	pectinesterase-like
SNP_33751_A_9580084	NC_021164.1	Ca_Kabuli_Chr05	9580084	AA	TT	TT	NON_SYNONYMOUS_CODING	101507605	21 kDa protein-like
SNP_33752_A_9581627	NC_021164.1	Ca_Kabuli_Chr05	9581627	CC	AA	AA	URR	101507605	21 kDa protein-like
SNP_33753_A_9581698	NC_021164.1	Ca_Kabuli_Chr05	9581698	GG	AA	AA	URR	101507605	21 kDa protein-like
SNP_33755_A_9582366	NC_021164.1	Ca_Kabuli_Chr05	9582366	TT	CC	CC	URR	101507605	21 kDa protein-like
SNP_33756_A_9583019	NC_021164.1	Ca_Kabuli_Chr05	9583019	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33757_A_9583035	NC_021164.1	Ca_Kabuli_Chr05	9583035	AA	GG	GG	INTERGENIC		
SNP_33758_A_9583138	NC_021164.1	Ca_Kabuli_Chr05	9583138	CC	TT	TT	INTERGENIC		
SNP_33759_A_9583238	NC_021164.1	Ca_Kabuli_Chr05	9583238	TT	GG	GG	INTERGENIC		
SNP_33760_A_9583385	NC_021164.1	Ca_Kabuli_Chr05	9583385	AA	CC	CC	INTERGENIC		
SNP_33761_A_9583414	NC_021164.1	Ca_Kabuli_Chr05	9583414	CC	TT	TT	INTERGENIC		
SNP_33762_A_9583448	NC_021164.1	Ca_Kabuli_Chr05	9583448	TT	AA	AA	INTERGENIC		
SNP_33763_A_9583479	NC_021164.1	Ca_Kabuli_Chr05	9583479	GG	AA	AA	INTERGENIC		
SNP_33764_A_9583482	NC_021164.1	Ca_Kabuli_Chr05	9583482	TT	CC	CC	INTERGENIC		
SNP_33765_A_9583488	NC_021164.1	Ca_Kabuli_Chr05	9583488	AA	GG	GG	INTERGENIC		
SNP_33766_A_9583586	NC_021164.1	Ca_Kabuli_Chr05	9583586	TT	CC	CC	INTERGENIC		
SNP_33768_A_9583651	NC_021164.1	Ca_Kabuli_Chr05	9583651	TT	CC	CC	INTERGENIC		
SNP_33769_A_9583685	NC_021164.1	Ca_Kabuli_Chr05	9583685	TT	CC	CC	INTERGENIC		
SNP_33770_A_9583709	NC_021164.1	Ca_Kabuli_Chr05	9583709	GG	AA	AA	INTERGENIC		
SNP_33771_A_9583771	NC_021164.1	Ca_Kabuli_Chr05	9583771	GG	AA	AA	INTERGENIC		
SNP_33772_A_9583792	NC_021164.1	Ca_Kabuli_Chr05	9583792	TT	CC	CC	INTERGENIC		
SNP_33773_A_9583818	NC_021164.1	Ca_Kabuli_Chr05	9583818	TT	CC	CC	INTERGENIC		
SNP_33774_A_9583835	NC_021164.1	Ca_Kabuli_Chr05	9583835	TT	CC	CC	INTERGENIC		
SNP_33775_A_9583887	NC_021164.1	Ca_Kabuli_Chr05	9583887	TT	CC	CC	INTERGENIC		
SNP_33776_A_9583890	NC_021164.1	Ca_Kabuli_Chr05	9583890	AA	TT	TT	INTERGENIC		
SNP_33777_A_9583970	NC_021164.1	Ca_Kabuli_Chr05	9583970	CC	TT	TT	INTERGENIC		
SNP_33778_A_9587444	NC_021164.1	Ca_Kabuli_Chr05	9587444	GG	AA	AA	DRR	101504378	21 kDa protein-like
SNP_33779_A_9588466	NC_021164.1	Ca_Kabuli_Chr05	9588466	AA	CC	CC	SYNONYMOUS_CODING	101504378	21 kDa protein-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33780_A_9588491	NC_021164.1	Ca_Kabuli_Chr05	9588491	AA	GG	GG	NON_SYNONYMOUS_CODING	101504378	21 kDa protein-like
SNP_33781_A_9589054	NC_021164.1	Ca_Kabuli_Chr05	9589054	TT	CC	CC	DRR	101504378	21 kDa protein-like
SNP_33782_A_9589812	NC_021164.1	Ca_Kabuli_Chr05	9589812	AA	GG	GG	URR	101504378	21 kDa protein-like
SNP_33783_A_9590088	NC_021164.1	Ca_Kabuli_Chr05	9590088	TT	AA	AA	URR	101504378	21 kDa protein-like
SNP_33784_A_9590137	NC_021164.1	Ca_Kabuli_Chr05	9590137	CC	TT	TT	URR	101504378	21 kDa protein-like
SNP_33785_A_9615650	NC_021164.1	Ca_Kabuli_Chr05	9615650	CC	TT	TT	URR	101504703	dihydropyridyl dehydrogenase 1, chloroplastic-like
SNP_33786_A_9615652	NC_021164.1	Ca_Kabuli_Chr05	9615652	CC	TT	TT	URR	101504703	dihydropyridyl dehydrogenase 1, chloroplastic-like
SNP_33787_A_9615724	NC_021164.1	Ca_Kabuli_Chr05	9615724	AA	GG	GG	URR	101504703	dihydropyridyl dehydrogenase 1, chloroplastic-like
SNP_33789_A_9616030	NC_021164.1	Ca_Kabuli_Chr05	9616030	CC	TT	TT	DRR	101505029	60S ribosomal protein L29-1-like
SNP_33790_A_9616085	NC_021164.1	Ca_Kabuli_Chr05	9616085	GG	TT	TT	DRR	101505029	60S ribosomal protein L29-1-like
SNP_33791_A_9617040	NC_021164.1	Ca_Kabuli_Chr05	9617040	TT	AA	AA	URR	101504703	dihydropyridyl dehydrogenase 1, chloroplastic-like
SNP_33792_A_9618045	NC_021164.1	Ca_Kabuli_Chr05	9618045	TT	GG	GG	URR	101505029	60S ribosomal protein L29-1-like
SNP_33794_A_9624292	NC_021164.1	Ca_Kabuli_Chr05	9624292	AA	TT	TT	URR	101507922	Unknown function
SNP_33795_A_9624348	NC_021164.1	Ca_Kabuli_Chr05	9624348	AA	GG	GG	URR	101507922	Unknown function
SNP_33796_A_9624385	NC_021164.1	Ca_Kabuli_Chr05	9624385	CC	TT	TT	URR	101507922	Unknown function
SNP_33797_A_9624486	NC_021164.1	Ca_Kabuli_Chr05	9624486	CC	TT	TT	URR	101507922	Unknown function
SNP_33798_A_9624502	NC_021164.1	Ca_Kabuli_Chr05	9624502	TT	CC	CC	URR	101507922	Unknown function
SNP_33799_A_9624522	NC_021164.1	Ca_Kabuli_Chr05	9624522	GG	AA	AA	URR	101507922	Unknown function
SNP_33800_A_9624622	NC_021164.1	Ca_Kabuli_Chr05	9624622	AA	TT	TT	URR	101507922	Unknown function
SNP_33801_A_9624688	NC_021164.1	Ca_Kabuli_Chr05	9624688	GG	AA	AA	URR	101507922	Unknown function
SNP_33802_A_9624706	NC_021164.1	Ca_Kabuli_Chr05	9624706	CC	TT	TT	URR	101507922	Unknown function
SNP_33803_A_9624826	NC_021164.1	Ca_Kabuli_Chr05	9624826	TT	AA	AA	URR	101507922	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33804_A_9624868	NC_021164.1	Ca_Kabuli_Chr05	9624868	TT	AA	AA	URR	101507922	Unknown function
SNP_33805_A_9624880	NC_021164.1	Ca_Kabuli_Chr05	9624880	AA	GG	GG	URR	101507922	Unknown function
SNP_33806_A_9624904	NC_021164.1	Ca_Kabuli_Chr05	9624904	GG	AA	AA	URR	101507922	Unknown function
SNP_33807_A_9624913	NC_021164.1	Ca_Kabuli_Chr05	9624913	GG	AA	AA	URR	101507922	Unknown function
SNP_33808_A_9625659	NC_021164.1	Ca_Kabuli_Chr05	9625659	GG	CC	CC	URR	101507922	Unknown function
SNP_33809_A_9625705	NC_021164.1	Ca_Kabuli_Chr05	9625705	AA	CC	CC	URR	101507922	Unknown function
SNP_33810_A_9625870	NC_021164.1	Ca_Kabuli_Chr05	9625870	AA	TT	TT	INTERGENIC		
SNP_33811_A_9625871	NC_021164.1	Ca_Kabuli_Chr05	9625871	TT	AA	AA	INTERGENIC		
SNP_33812_A_9625872	NC_021164.1	Ca_Kabuli_Chr05	9625872	AA	CC	CC	INTERGENIC		
SNP_33813_A_9625875	NC_021164.1	Ca_Kabuli_Chr05	9625875	GG	AA	AA	INTERGENIC		
SNP_33815_A_9626089	NC_021164.1	Ca_Kabuli_Chr05	9626089	GG	CC	CC	INTERGENIC		
SNP_33817_A_9626230	NC_021164.1	Ca_Kabuli_Chr05	9626230	CC	AA	AA	INTERGENIC		
SNP_33818_A_9634820	NC_021164.1	Ca_Kabuli_Chr05	9634820	AA	GG	GG	INTERGENIC		
SNP_33819_A_9638524	NC_021164.1	Ca_Kabuli_Chr05	9638524	GG	CC	CC	NON_SYNONYMOUS_CODING	101505550	60S ribosomal protein L29-1-like
SNP_33820_A_9646253	NC_021164.1	Ca_Kabuli_Chr05	9646253	AA	GG	GG	INTERGENIC		
SNP_33821_A_9649859	NC_021164.1	Ca_Kabuli_Chr05	9649859	TT	GG	GG	URR	101506318	21 kDa protein-like
SNP_33822_A_9656851	NC_021164.1	Ca_Kabuli_Chr05	9656851	GG	CC	CC	INTERGENIC		
SNP_33823_A_9656857	NC_021164.1	Ca_Kabuli_Chr05	9656857	TT	CC	CC	INTERGENIC		
SNP_33824_A_9656866	NC_021164.1	Ca_Kabuli_Chr05	9656866	CC	TT	TT	INTERGENIC		
SNP_33825_A_9656881	NC_021164.1	Ca_Kabuli_Chr05	9656881	TT	GG	GG	INTERGENIC		
SNP_33826_A_9656890	NC_021164.1	Ca_Kabuli_Chr05	9656890	CC	AA	AA	INTERGENIC		
SNP_33827_A_9657216	NC_021164.1	Ca_Kabuli_Chr05	9657216	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33828_A_9657217	NC_021164.1	Ca_Kabuli_Chr05	9657217	AA	TT	TT	INTERGENIC		
SNP_33829_A_9657323	NC_021164.1	Ca_Kabuli_Chr05	9657323	AA	GG	GG	INTERGENIC		
SNP_33830_A_9657656	NC_021164.1	Ca_Kabuli_Chr05	9657656	GG	AA	AA	INTERGENIC		
SNP_33831_A_9657686	NC_021164.1	Ca_Kabuli_Chr05	9657686	GG	AA	AA	INTERGENIC		
SNP_33832_A_9658778	NC_021164.1	Ca_Kabuli_Chr05	9658778	TT	CC	CC	INTERGENIC		
SNP_33833_A_9659713	NC_021164.1	Ca_Kabuli_Chr05	9659713	CC	AA	AA	INTERGENIC		
SNP_33834_A_9705929	NC_021164.1	Ca_Kabuli_Chr05	9705929	AA	GG	GG	INTERGENIC		
SNP_33835_A_9706018	NC_021164.1	Ca_Kabuli_Chr05	9706018	CC	TT	TT	INTERGENIC		
SNP_33836_A_9709142	NC_021164.1	Ca_Kabuli_Chr05	9709142	AA	GG	GG	INTERGENIC		
SNP_33837_A_9710839	NC_021164.1	Ca_Kabuli_Chr05	9710839	CC	AA	AA	DRR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33838_A_9711068	NC_021164.1	Ca_Kabuli_Chr05	9711068	CC	TT	TT	DRR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33839_A_9715313	NC_021164.1	Ca_Kabuli_Chr05	9715313	TT	AA	AA	INTRON	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33840_A_9715318	NC_021164.1	Ca_Kabuli_Chr05	9715318	GG	AA	AA	INTRON	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33841_A_9717684	NC_021164.1	Ca_Kabuli_Chr05	9717684	GG	AA	AA	INTRON	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33842_A_9719153	NC_021164.1	Ca_Kabuli_Chr05	9719153	AA	TT	TT	NON_SYNONYMOUS_CODING	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33843_A_9720713	NC_021164.1	Ca_Kabuli_Chr05	9720713	AA	GG	GG	URR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33844_A_9720743	NC_021164.1	Ca_Kabuli_Chr05	9720743	AA	GG	GG	URR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33845_A_9720773	NC_021164.1	Ca_Kabuli_Chr05	9720773	AA	GG	GG	URR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33846_A_9720784	NC_021164.1	Ca_Kabuli_Chr05	9720784	AA	GG	GG	URR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33847_A_9720786	NC_021164.1	Ca_Kabuli_Chr05	9720786	CC	AA	AA	URR	101508234	probable glucan 1,3-beta-glucosidase A
SNP_33848_A_9722766	NC_021164.1	Ca_Kabuli_Chr05	9722766	TT	CC	CC	INTERGENIC		
SNP_33849_A_9722776	NC_021164.1	Ca_Kabuli_Chr05	9722776	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33850_A_9722802	NC_021164.1	Ca_Kabuli_Chr05	9722802	AA	GG	GG	INTERGENIC		
SNP_33851_A_9723174	NC_021164.1	Ca_Kabuli_Chr05	9723174	CC	AA	AA	INTERGENIC		
SNP_33852_A_9731741	NC_021164.1	Ca_Kabuli_Chr05	9731741	TT	CC	CC	INTERGENIC		
SNP_33853_A_9731925	NC_021164.1	Ca_Kabuli_Chr05	9731925	GG	TT	TT	INTERGENIC		
SNP_33854_A_9731927	NC_021164.1	Ca_Kabuli_Chr05	9731927	AA	CC	CC	INTERGENIC		
SNP_33855_A_9733195	NC_021164.1	Ca_Kabuli_Chr05	9733195	CC	TT	TT	INTERGENIC		
SNP_33856_A_9733673	NC_021164.1	Ca_Kabuli_Chr05	9733673	AA	CC	CC	INTERGENIC		
SNP_33858_A_9739888	NC_021164.1	Ca_Kabuli_Chr05	9739888	TT	CC	CC	NON_SYNONYMOUS_CODING	101489959	Unknown function
SNP_33859_A_9739890	NC_021164.1	Ca_Kabuli_Chr05	9739890	GG	CC	CC	NON_SYNONYMOUS_CODING	101489959	Unknown function
SNP_33860_A_9741041	NC_021164.1	Ca_Kabuli_Chr05	9741041	CC	GG	GG	URR	101489959	Unknown function
SNP_33861_A_9741559	NC_021164.1	Ca_Kabuli_Chr05	9741559	TT	CC	CC	URR	101489959	Unknown function
SNP_33862_A_9767777	NC_021164.1	Ca_Kabuli_Chr05	9767777	CC	TT	TT	INTERGENIC		
SNP_33864_A_9768299	NC_021164.1	Ca_Kabuli_Chr05	9768299	AA	CC	CC	INTERGENIC		
SNP_33867_A_9773726	NC_021164.1	Ca_Kabuli_Chr05	9773726	CC	TT	TT	SYNONYMOUS_CODING	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33868_A_9773965	NC_021164.1	Ca_Kabuli_Chr05	9773965	AA	CC	CC	NON_SYNONYMOUS_CODING	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33869_A_9773978	NC_021164.1	Ca_Kabuli_Chr05	9773978	GG	AA	AA	SYNONYMOUS_CODING	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33870_A_9773996	NC_021164.1	Ca_Kabuli_Chr05	9773996	CC	GG	GG	NON_SYNONYMOUS_CODING	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33872_A_9774878	NC_021164.1	Ca_Kabuli_Chr05	9774878	TT	GG	GG	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33873_A_9775356	NC_021164.1	Ca_Kabuli_Chr05	9775356	TT	AA	AA	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33874_A_9775366	NC_021164.1	Ca_Kabuli_Chr05	9775366	GG	AA	AA	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33875_A_9775657	NC_021164.1	Ca_Kabuli_Chr05	9775657	AA	CC	CC	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33876_A_9775663	NC_021164.1	Ca_Kabuli_Chr05	9775663	CC	TT	TT	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33878_A_9775689	NC_021164.1	Ca_Kabuli_Chr05	9775689	CC	TT	TT	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33879_A_9776207	NC_021164.1	Ca_Kabuli_Chr05	9776207	CC	TT	TT	URR	101508558	probable leucine-rich repeat receptor-like protein kinase At1g35710
SNP_33880_A_9776739	NC_021164.1	Ca_Kabuli_Chr05	9776739	CC	TT	TT	INTERGENIC		
SNP_33881_A_9776741	NC_021164.1	Ca_Kabuli_Chr05	9776741	AA	GG	GG	INTERGENIC		
SNP_33882_A_9776745	NC_021164.1	Ca_Kabuli_Chr05	9776745	TT	AA	AA	INTERGENIC		
SNP_33883_A_9778192	NC_021164.1	Ca_Kabuli_Chr05	9778192	TT	CC	CC	INTERGENIC		
SNP_33884_A_9779078	NC_021164.1	Ca_Kabuli_Chr05	9779078	CC	TT	TT	INTERGENIC		
SNP_33885_A_9782517	NC_021164.1	Ca_Kabuli_Chr05	9782517	GG	AA	AA	DRR	101508873	protein FAM136A-like
SNP_33886_A_9782572	NC_021164.1	Ca_Kabuli_Chr05	9782572	AA	GG	GG	DRR	101508873	protein FAM136A-like
SNP_33887_A_9782600	NC_021164.1	Ca_Kabuli_Chr05	9782600	AA	GG	GG	DRR	101508873	protein FAM136A-like
SNP_33888_A_9782817	NC_021164.1	Ca_Kabuli_Chr05	9782817	TT	CC	CC	DRR	101508873	protein FAM136A-like
SNP_33890_A_9784461	NC_021164.1	Ca_Kabuli_Chr05	9784461	CC	AA	AA	INTRON	101508873	protein FAM136A-like
SNP_33891_A_9784608	NC_021164.1	Ca_Kabuli_Chr05	9784608	GG	AA	AA	INTRON	101508873	protein FAM136A-like
SNP_33892_A_9784620	NC_021164.1	Ca_Kabuli_Chr05	9784620	CC	TT	TT	INTRON	101508873	protein FAM136A-like
SNP_33893_A_9784631	NC_021164.1	Ca_Kabuli_Chr05	9784631	CC	GG	GG	INTRON	101508873	protein FAM136A-like
SNP_33894_A_9785494	NC_021164.1	Ca_Kabuli_Chr05	9785494	AA	GG	GG	INTRON	101508873	protein FAM136A-like
SNP_33895_A_9785498	NC_021164.1	Ca_Kabuli_Chr05	9785498	AA	TT	TT	INTRON	101508873	protein FAM136A-like
SNP_33896_A_9785515	NC_021164.1	Ca_Kabuli_Chr05	9785515	TT	CC	CC	INTRON	101508873	protein FAM136A-like
SNP_33897_A_9785524	NC_021164.1	Ca_Kabuli_Chr05	9785524	AA	TT	TT	INTRON	101508873	protein FAM136A-like
SNP_33898_A_9785529	NC_021164.1	Ca_Kabuli_Chr05	9785529	TT	AA	AA	INTRON	101508873	protein FAM136A-like
SNP_33899_A_9788504	NC_021164.1	Ca_Kabuli_Chr05	9788504	CC	TT	TT	URR	101508873	protein FAM136A-like
SNP_33900_A_9788505	NC_021164.1	Ca_Kabuli_Chr05	9788505	AA	GG	GG	URR	101508873	protein FAM136A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33901_A_9788512	NC_021164.1	Ca_Kabuli_Chr05	9788512	AA	GG	GG	URR	101508873	protein FAM136A-like
SNP_33902_A_9789143	NC_021164.1	Ca_Kabuli_Chr05	9789143	AA	GG	GG	INTERGENIC		
SNP_33903_A_9789467	NC_021164.1	Ca_Kabuli_Chr05	9789467	GG	TT	TT	INTERGENIC		
SNP_33904_A_9789965	NC_021164.1	Ca_Kabuli_Chr05	9789965	CC	TT	TT	INTERGENIC		
SNP_33905_A_9789976	NC_021164.1	Ca_Kabuli_Chr05	9789976	CC	TT	TT	INTERGENIC		
SNP_33906_A_9790356	NC_021164.1	Ca_Kabuli_Chr05	9790356	GG	CC	CC	INTERGENIC		
SNP_33907_A_9792568	NC_021164.1	Ca_Kabuli_Chr05	9792568	AA	GG	GG	INTERGENIC		
SNP_33908_A_9792754	NC_021164.1	Ca_Kabuli_Chr05	9792754	TT	CC	CC	INTERGENIC		
SNP_33909_A_9792762	NC_021164.1	Ca_Kabuli_Chr05	9792762	AA	GG	GG	INTERGENIC		
SNP_33910_A_9792913	NC_021164.1	Ca_Kabuli_Chr05	9792913	GG	AA	AA	INTERGENIC		
SNP_33911_A_9792987	NC_021164.1	Ca_Kabuli_Chr05	9792987	AA	GG	GG	INTERGENIC		
SNP_33912_A_9793343	NC_021164.1	Ca_Kabuli_Chr05	9793343	GG	AA	AA	INTERGENIC		
SNP_33913_A_9793369	NC_021164.1	Ca_Kabuli_Chr05	9793369	AA	GG	GG	INTERGENIC		
SNP_33914_A_9793655	NC_021164.1	Ca_Kabuli_Chr05	9793655	GG	AA	AA	INTERGENIC		
SNP_33915_A_9793963	NC_021164.1	Ca_Kabuli_Chr05	9793963	AA	GG	GG	INTERGENIC		
SNP_33916_A_9793987	NC_021164.1	Ca_Kabuli_Chr05	9793987	GG	AA	AA	INTERGENIC		
SNP_33917_A_9794133	NC_021164.1	Ca_Kabuli_Chr05	9794133	CC	GG	GG	INTERGENIC		
SNP_33918_A_9794164	NC_021164.1	Ca_Kabuli_Chr05	9794164	CC	TT	TT	INTERGENIC		
SNP_33919_A_9797852	NC_021164.1	Ca_Kabuli_Chr05	9797852	TT	CC	CC	INTERGENIC		
SNP_33920_A_9797859	NC_021164.1	Ca_Kabuli_Chr05	9797859	GG	AA	AA	INTERGENIC		
SNP_33921_A_9797861	NC_021164.1	Ca_Kabuli_Chr05	9797861	GG	AA	AA	INTERGENIC		
SNP_33922_A_9797864	NC_021164.1	Ca_Kabuli_Chr05	9797864	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33923_A_9799550	NC_021164.1	Ca_Kabuli_Chr05	9799550	GG	AA	AA	INTERGENIC		
SNP_33924_A_9800376	NC_021164.1	Ca_Kabuli_Chr05	9800376	CC	GG	GG	INTERGENIC		
SNP_33925_A_9800389	NC_021164.1	Ca_Kabuli_Chr05	9800389	GG	AA	AA	INTERGENIC		
SNP_33926_A_9800397	NC_021164.1	Ca_Kabuli_Chr05	9800397	GG	AA	AA	INTERGENIC		
SNP_33927_A_9800438	NC_021164.1	Ca_Kabuli_Chr05	9800438	AA	GG	GG	INTERGENIC		
SNP_33928_A_9800441	NC_021164.1	Ca_Kabuli_Chr05	9800441	GG	AA	AA	INTERGENIC		
SNP_33929_A_9800443	NC_021164.1	Ca_Kabuli_Chr05	9800443	GG	AA	AA	INTERGENIC		
SNP_33930_A_9803483	NC_021164.1	Ca_Kabuli_Chr05	9803483	GG	AA	AA	INTRON	101509192	uncharacterized LOC101509192
SNP_33931_A_9805153	NC_021164.1	Ca_Kabuli_Chr05	9805153	TT	CC	CC	INTRON	101509192	uncharacterized LOC101509192
SNP_33932_A_9806347	NC_021164.1	Ca_Kabuli_Chr05	9806347	AA	CC	CC	INTRON	101509192	uncharacterized LOC101509192
SNP_33934_A_9808567	NC_021164.1	Ca_Kabuli_Chr05	9808567	GG	AA	AA	DRR	101509522	probable mitochondrial intermediate peptidase, mitochondrial
SNP_33935_A_9808657	NC_021164.1	Ca_Kabuli_Chr05	9808657	AA	GG	GG	DRR	101509522	probable mitochondrial intermediate peptidase, mitochondrial
SNP_33936_A_9808952	NC_021164.1	Ca_Kabuli_Chr05	9808952	GG	AA	AA	DRR	101509522	probable mitochondrial intermediate peptidase, mitochondrial
SNP_33938_A_9813813	NC_021164.1	Ca_Kabuli_Chr05	9813813	TT	CC	CC	INTRON	101509522	probable mitochondrial intermediate peptidase, mitochondrial
SNP_33939_A_9816345	NC_021164.1	Ca_Kabuli_Chr05	9816345	TT	CC	CC	INTRON	101509522	probable mitochondrial intermediate peptidase, mitochondrial
SNP_33941_A_9826182	NC_021164.1	Ca_Kabuli_Chr05	9826182	CC	TT	TT	INTERGENIC		
SNP_33943_A_9828995	NC_021164.1	Ca_Kabuli_Chr05	9828995	TT	AA	AA	DRR	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33944_A_9829026	NC_021164.1	Ca_Kabuli_Chr05	9829026	GG	AA	AA	DRR	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33946_A_9831148	NC_021164.1	Ca_Kabuli_Chr05	9831148	CC	TT	TT	INTRON	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33947_A_9831556	NC_021164.1	Ca_Kabuli_Chr05	9831556	AA	TT	TT	INTRON	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33948_A_9831786	NC_021164.1	Ca_Kabuli_Chr05	9831786	CC	TT	TT	INTRON	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33949_A_9831805	NC_021164.1	Ca_Kabuli_Chr05	9831805	AA	GG	GG	INTRON	101510052	vacuolar protein sorting-associated protein 9A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33950_A_9835290	NC_021164.1	Ca_Kabuli_Chr05	9835290	TT	AA	AA	URR	101510052	vacuolar protein sorting-associated protein 9A-like
SNP_33953_A_9842695	NC_021164.1	Ca_Kabuli_Chr05	9842695	CC	TT	TT	INTRON	101510381	peroxisome biogenesis protein 5
SNP_33954_A_9843104	NC_021164.1	Ca_Kabuli_Chr05	9843104	CC	GG	GG	INTRON	101510381	peroxisome biogenesis protein 5
SNP_33955_A_9847836	NC_021164.1	Ca_Kabuli_Chr05	9847836	AA	GG	GG	INTRON	101510381	peroxisome biogenesis protein 5
SNP_33956_A_9855808	NC_021164.1	Ca_Kabuli_Chr05	9855808	CC	GG	GG	URR	101510381	peroxisome biogenesis protein 5
SNP_33957_A_9856424	NC_021164.1	Ca_Kabuli_Chr05	9856424	GG	CC	CC	URR	101510381	peroxisome biogenesis protein 5
SNP_33958_A_9858795	NC_021164.1	Ca_Kabuli_Chr05	9858795	GG	AA	AA	INTERGENIC		
SNP_33960_A_9859512	NC_021164.1	Ca_Kabuli_Chr05	9859512	AA	TT	TT	INTERGENIC		
SNP_33961_A_9864991	NC_021164.1	Ca_Kabuli_Chr05	9864991	CC	TT	TT	INTRON	101510709	ankyrin repeat domain-containing protein 2-like
SNP_33962_A_9868477	NC_021164.1	Ca_Kabuli_Chr05	9868477	AA	CC	CC	INTRON	101510709	ankyrin repeat domain-containing protein 2-like
SNP_33963_A_9869455	NC_021164.1	Ca_Kabuli_Chr05	9869455	TT	AA	AA	INTERGENIC		
SNP_33964_A_9869487	NC_021164.1	Ca_Kabuli_Chr05	9869487	TT	CC	CC	INTERGENIC		
SNP_33965_A_9878543	NC_021164.1	Ca_Kabuli_Chr05	9878543	CC	TT	TT	INTRON	101511034	COP9 signalosome complex subunit 6a-like
SNP_33967_A_9883544	NC_021164.1	Ca_Kabuli_Chr05	9883544	GG	AA	AA	URR	101511034	COP9 signalosome complex subunit 6a-like
SNP_33968_A_9884164	NC_021164.1	Ca_Kabuli_Chr05	9884164	TT	CC	CC	INTERGENIC		
SNP_33969_A_9884169	NC_021164.1	Ca_Kabuli_Chr05	9884169	AA	GG	GG	INTERGENIC		
SNP_33970_A_9884182	NC_021164.1	Ca_Kabuli_Chr05	9884182	CC	TT	TT	INTERGENIC		
SNP_33971_A_9884382	NC_021164.1	Ca_Kabuli_Chr05	9884382	CC	TT	TT	INTERGENIC		
SNP_33972_A_9884386	NC_021164.1	Ca_Kabuli_Chr05	9884386	TT	CC	CC	INTERGENIC		
SNP_33974_A_9884781	NC_021164.1	Ca_Kabuli_Chr05	9884781	TT	CC	CC	INTERGENIC		
SNP_33975_A_9885938	NC_021164.1	Ca_Kabuli_Chr05	9885938	AA	GG	GG	INTERGENIC		
SNP_33976_A_9886628	NC_021164.1	Ca_Kabuli_Chr05	9886628	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_33977_A_9887634	NC_021164.1	Ca_Kabuli_Chr05	9887634	TT	GG	GG	INTERGENIC		
SNP_33978_A_9887651	NC_021164.1	Ca_Kabuli_Chr05	9887651	AA	GG	GG	INTERGENIC		
SNP_33979_A_9892990	NC_021164.1	Ca_Kabuli_Chr05	9892990	AA	GG	GG	INTERGENIC		
SNP_33980_A_9893004	NC_021164.1	Ca_Kabuli_Chr05	9893004	GG	AA	AA	INTERGENIC		
SNP_33982_A_9905233	NC_021164.1	Ca_Kabuli_Chr05	9905233	GG	AA	AA	SYNONYMOUS_CODING	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33983_A_9905350	NC_021164.1	Ca_Kabuli_Chr05	9905350	CC	TT	TT	SYNONYMOUS_CODING	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33985_A_9906177	NC_021164.1	Ca_Kabuli_Chr05	9906177	GG	AA	AA	URR	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33986_A_9906396	NC_021164.1	Ca_Kabuli_Chr05	9906396	TT	AA	AA	URR	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33987_A_9907450	NC_021164.1	Ca_Kabuli_Chr05	9907450	AA	TT	TT	URR	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33988_A_9907785	NC_021164.1	Ca_Kabuli_Chr05	9907785	GG	CC	CC	URR	101511340	serine/threonine-protein kinase BRI1-like 1
SNP_33989_A_9908335	NC_021164.1	Ca_Kabuli_Chr05	9908335	TT	CC	CC	INTERGENIC		
SNP_33990_A_9911182	NC_021164.1	Ca_Kabuli_Chr05	9911182	TT	GG	GG	INTERGENIC		
SNP_33991_A_9911863	NC_021164.1	Ca_Kabuli_Chr05	9911863	GG	CC	CC	INTERGENIC		
SNP_33992_A_9911870	NC_021164.1	Ca_Kabuli_Chr05	9911870	CC	TT	TT	INTERGENIC		
SNP_33993_A_9911900	NC_021164.1	Ca_Kabuli_Chr05	9911900	GG	TT	TT	INTERGENIC		
SNP_33994_A_9912453	NC_021164.1	Ca_Kabuli_Chr05	9912453	AA	GG	GG	INTERGENIC		
SNP_33996_A_9913189	NC_021164.1	Ca_Kabuli_Chr05	9913189	TT	GG	GG	INTERGENIC		
SNP_33997_A_9913239	NC_021164.1	Ca_Kabuli_Chr05	9913239	TT	AA	AA	INTERGENIC		
SNP_33998_A_9914424	NC_021164.1	Ca_Kabuli_Chr05	9914424	AA	TT	TT	INTERGENIC		
SNP_33999_A_9915471	NC_021164.1	Ca_Kabuli_Chr05	9915471	CC	TT	TT	INTERGENIC		
SNP_34000_A_9916302	NC_021164.1	Ca_Kabuli_Chr05	9916302	TT	AA	AA	INTERGENIC		
SNP_34001_A_9916311	NC_021164.1	Ca_Kabuli_Chr05	9916311	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34002_A_9916887	NC_021164.1	Ca_Kabuli_Chr05	9916887	AA	GG	GG	INTERGENIC			
SNP_34003_A_9916976	NC_021164.1	Ca_Kabuli_Chr05	9916976	CC	TT	TT	INTERGENIC			
SNP_34004_A_9916990	NC_021164.1	Ca_Kabuli_Chr05	9916990	TT	CC	CC	INTERGENIC			
SNP_34005_A_9917546	NC_021164.1	Ca_Kabuli_Chr05	9917546	CC	TT	TT	INTERGENIC			
SNP_34006_A_9917558	NC_021164.1	Ca_Kabuli_Chr05	9917558	AA	GG	GG	INTERGENIC			
SNP_34007_A_9917662	NC_021164.1	Ca_Kabuli_Chr05	9917662	GG	AA	AA	INTERGENIC			
SNP_34009_A_9917756	NC_021164.1	Ca_Kabuli_Chr05	9917756	TT	CC	CC	INTERGENIC			
SNP_34010_A_9917783	NC_021164.1	Ca_Kabuli_Chr05	9917783	AA	GG	GG	INTERGENIC			
SNP_34011_A_9917803	NC_021164.1	Ca_Kabuli_Chr05	9917803	GG	TT	TT	INTERGENIC			
SNP_34012_A_9917875	NC_021164.1	Ca_Kabuli_Chr05	9917875	TT	CC	CC	INTERGENIC			
SNP_34013_A_9918056	NC_021164.1	Ca_Kabuli_Chr05	9918056	CC	TT	TT	INTERGENIC			
SNP_34014_A_9918059	NC_021164.1	Ca_Kabuli_Chr05	9918059	GG	TT	TT	INTERGENIC			
SNP_34015_A_9918064	NC_021164.1	Ca_Kabuli_Chr05	9918064	TT	AA	AA	INTERGENIC			
SNP_34016_A_9918138	NC_021164.1	Ca_Kabuli_Chr05	9918138	AA	GG	GG	INTERGENIC			
SNP_34017_A_9918144	NC_021164.1	Ca_Kabuli_Chr05	9918144	AA	GG	GG	INTERGENIC			
SNP_34018_A_9918150	NC_021164.1	Ca_Kabuli_Chr05	9918150	CC	TT	TT	INTERGENIC			
SNP_34019_A_9918278	NC_021164.1	Ca_Kabuli_Chr05	9918278	GG	AA	AA	INTERGENIC			
SNP_34021_A_9919341	NC_021164.1	Ca_Kabuli_Chr05	9919341	CC	AA	AA	INTERGENIC			
SNP_34022_A_9919349	NC_021164.1	Ca_Kabuli_Chr05	9919349	CC	TT	TT	INTERGENIC			
SNP_34023_A_9920785	NC_021164.1	Ca_Kabuli_Chr05	9920785	GG	AA	AA	INTERGENIC			
SNP_34024_A_9937433	NC_021164.1	Ca_Kabuli_Chr05	9937433	TT	AA	AA	INTERGENIC			
SNP_34025_A_9948977	NC_021164.1	Ca_Kabuli_Chr05	9948977	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34026_A_9949019	NC_021164.1	Ca_Kabuli_Chr05	9949019	GG	TT	TT	INTERGENIC			
SNP_34027_A_9950470	NC_021164.1	Ca_Kabuli_Chr05	9950470	GG	AA	AA	INTERGENIC			
SNP_34028_A_9950484	NC_021164.1	Ca_Kabuli_Chr05	9950484	AA	TT	TT	INTERGENIC			
SNP_34029_A_9951041	NC_021164.1	Ca_Kabuli_Chr05	9951041	AA	GG	GG	INTERGENIC			
SNP_34030_A_9951309	NC_021164.1	Ca_Kabuli_Chr05	9951309	TT	AA	AA	INTERGENIC			
SNP_34031_A_9953003	NC_021164.1	Ca_Kabuli_Chr05	9953003	TT	GG	GG	INTERGENIC			
SNP_34032_A_9953026	NC_021164.1	Ca_Kabuli_Chr05	9953026	AA	GG	GG	INTERGENIC			
SNP_34033_A_9953031	NC_021164.1	Ca_Kabuli_Chr05	9953031	AA	GG	GG	INTERGENIC			
SNP_34034_A_9953054	NC_021164.1	Ca_Kabuli_Chr05	9953054	TT	AA	AA	INTERGENIC			
SNP_34035_A_9953055	NC_021164.1	Ca_Kabuli_Chr05	9953055	TT	AA	AA	INTERGENIC			
SNP_34036_A_9953068	NC_021164.1	Ca_Kabuli_Chr05	9953068	GG	AA	AA	INTERGENIC			
SNP_34037_A_9953069	NC_021164.1	Ca_Kabuli_Chr05	9953069	TT	CC	CC	INTERGENIC			
SNP_34038_A_9953099	NC_021164.1	Ca_Kabuli_Chr05	9953099	TT	CC	CC	INTERGENIC			
SNP_34039_A_9953117	NC_021164.1	Ca_Kabuli_Chr05	9953117	TT	AA	AA	INTERGENIC			
SNP_34040_A_9953120	NC_021164.1	Ca_Kabuli_Chr05	9953120	TT	CC	CC	INTERGENIC			
SNP_34042_A_9953387	NC_021164.1	Ca_Kabuli_Chr05	9953387	CC	TT	TT	INTERGENIC			
SNP_34043_A_9953396	NC_021164.1	Ca_Kabuli_Chr05	9953396	AA	GG	GG	INTERGENIC			
SNP_34044_A_9954742	NC_021164.1	Ca_Kabuli_Chr05	9954742	GG	AA	AA	INTERGENIC			
SNP_34045_A_9954760	NC_021164.1	Ca_Kabuli_Chr05	9954760	AA	GG	GG	INTERGENIC			
SNP_34047_A_9956930	NC_021164.1	Ca_Kabuli_Chr05	9956930	GG	AA	AA	INTRON	101511665	probable WRKY transcription factor 2	
SNP_34048_A_9956931	NC_021164.1	Ca_Kabuli_Chr05	9956931	CC	AA	AA	INTRON	101511665	probable WRKY transcription factor 2	
SNP_34049_A_9957447	NC_021164.1	Ca_Kabuli_Chr05	9957447	GG	AA	AA	NON_SYNONYMOUS_CODING	101511665	probable WRKY transcription factor 2	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34050_A_9957876	NC_021164.1	Ca_Kabuli_Chr05	9957876	TT	CC	CC	INTRON	101511665	probable WRKY transcription factor 2
SNP_34052_A_9961996	NC_021164.1	Ca_Kabuli_Chr05	9961996	GG	AA	AA	DRR	101511986	anthocyanidin 5,3-O-glucosyltransferase-like
SNP_34053_A_9962248	NC_021164.1	Ca_Kabuli_Chr05	9962248	GG	AA	AA	DRR	101511986	anthocyanidin 5,3-O-glucosyltransferase-like
SNP_34055_A_9965203	NC_021164.1	Ca_Kabuli_Chr05	9965203	AA	CC	CC	INTERGENIC		
SNP_34056_A_9965371	NC_021164.1	Ca_Kabuli_Chr05	9965371	AA	GG	GG	INTERGENIC		
SNP_34057_A_9965389	NC_021164.1	Ca_Kabuli_Chr05	9965389	CC	TT	TT	INTERGENIC		
SNP_34059_A_9965686	NC_021164.1	Ca_Kabuli_Chr05	9965686	AA	CC	CC	INTERGENIC		
SNP_34060_A_9965880	NC_021164.1	Ca_Kabuli_Chr05	9965880	GG	CC	CC	INTERGENIC		
SNP_34061_A_9965890	NC_021164.1	Ca_Kabuli_Chr05	9965890	TT	CC	CC	INTERGENIC		
SNP_34062_A_9977664	NC_021164.1	Ca_Kabuli_Chr05	9977664	TT	CC	CC	INTERGENIC		
SNP_34063_A_9978816	NC_021164.1	Ca_Kabuli_Chr05	9978816	TT	AA	AA	INTERGENIC		
SNP_34064_A_9981473	NC_021164.1	Ca_Kabuli_Chr05	9981473	TT	CC	CC	URR	101490930	anthocyanidin 5,3-O-glucosyltransferase
SNP_34066_A_9981614	NC_021164.1	Ca_Kabuli_Chr05	9981614	AA	GG	GG	URR	101490930	anthocyanidin 5,3-O-glucosyltransferase
SNP_34067_A_9981623	NC_021164.1	Ca_Kabuli_Chr05	9981623	TT	AA	AA	URR	101490930	anthocyanidin 5,3-O-glucosyltransferase
SNP_34068_A_9981638	NC_021164.1	Ca_Kabuli_Chr05	9981638	AA	CC	CC	URR	101490930	anthocyanidin 5,3-O-glucosyltransferase
SNP_34069_A_9981820	NC_021164.1	Ca_Kabuli_Chr05	9981820	TT	AA	AA	INTERGENIC		
SNP_34070_A_9981906	NC_021164.1	Ca_Kabuli_Chr05	9981906	GG	AA	AA	INTERGENIC		
SNP_34071_A_9983153	NC_021164.1	Ca_Kabuli_Chr05	9983153	GG	AA	AA	INTERGENIC		
SNP_34072_A_9983154	NC_021164.1	Ca_Kabuli_Chr05	9983154	CC	TT	TT	INTERGENIC		
SNP_34073_A_9983155	NC_021164.1	Ca_Kabuli_Chr05	9983155	TT	GG	GG	INTERGENIC		
SNP_34074_A_9983156	NC_021164.1	Ca_Kabuli_Chr05	9983156	TT	CC	CC	INTERGENIC		
SNP_34075_A_9983218	NC_021164.1	Ca_Kabuli_Chr05	9983218	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34076_A_9983288	NC_021164.1	Ca_Kabuli_Chr05	9983288	CC	AA	AA	INTERGENIC		
SNP_34077_A_9984128	NC_021164.1	Ca_Kabuli_Chr05	9984128	GG	AA	AA	INTERGENIC		
SNP_34078_A_9984141	NC_021164.1	Ca_Kabuli_Chr05	9984141	AA	TT	TT	INTERGENIC		
SNP_34079_A_9986198	NC_021164.1	Ca_Kabuli_Chr05	9986198	CC	AA	AA	INTRON	101512312	chloride channel protein CLC-f
SNP_34080_A_9986288	NC_021164.1	Ca_Kabuli_Chr05	9986288	CC	TT	TT	INTRON	101512312	chloride channel protein CLC-f
SNP_34081_A_9986414	NC_021164.1	Ca_Kabuli_Chr05	9986414	CC	TT	TT	INTRON	101512312	chloride channel protein CLC-f
SNP_34083_A_9986472	NC_021164.1	Ca_Kabuli_Chr05	9986472	GG	AA	AA	INTRON	101512312	chloride channel protein CLC-f
SNP_34084_A_9986818	NC_021164.1	Ca_Kabuli_Chr05	9986818	GG	AA	AA	INTRON	101512312	chloride channel protein CLC-f
SNP_34085_A_9993305	NC_021164.1	Ca_Kabuli_Chr05	9993305	CC	AA	AA	INTERGENIC		
SNP_34086_A_9993389	NC_021164.1	Ca_Kabuli_Chr05	9993389	CC	TT	TT	INTERGENIC		
SNP_34087_A_9995290	NC_021164.1	Ca_Kabuli_Chr05	9995290	GG	CC	CC	INTERGENIC		
SNP_34088_A_9995297	NC_021164.1	Ca_Kabuli_Chr05	9995297	AA	GG	GG	INTERGENIC		
SNP_34089_A_9995299	NC_021164.1	Ca_Kabuli_Chr05	9995299	AA	CC	CC	INTERGENIC		
SNP_34090_A_9995455	NC_021164.1	Ca_Kabuli_Chr05	9995455	CC	TT	TT	INTERGENIC		
SNP_34091_A_9995532	NC_021164.1	Ca_Kabuli_Chr05	9995532	TT	GG	GG	INTERGENIC		
SNP_34092_A_9995540	NC_021164.1	Ca_Kabuli_Chr05	9995540	GG	AA	AA	INTERGENIC		
SNP_34093_A_10001892	NC_021164.1	Ca_Kabuli_Chr05	10001892	TT	AA	AA	INTERGENIC		
SNP_34094_A_10002943	NC_021164.1	Ca_Kabuli_Chr05	10002943	CC	GG	GG	DRR	101512845	uncharacterized protein At4g26450
SNP_34095_A_10002956	NC_021164.1	Ca_Kabuli_Chr05	10002956	TT	CC	CC	DRR	101512845	uncharacterized protein At4g26450
SNP_34096_A_10002968	NC_021164.1	Ca_Kabuli_Chr05	10002968	CC	TT	TT	DRR	101512845	uncharacterized protein At4g26450
SNP_34098_A_10006269	NC_021164.1	Ca_Kabuli_Chr05	10006269	GG	AA	AA	INTRON	101512845	uncharacterized protein At4g26450
SNP_34099_A_10006702	NC_021164.1	Ca_Kabuli_Chr05	10006702	CC	GG	GG	INTRON	101512845	uncharacterized protein At4g26450

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34100_A_10012718	NC_021164.1	Ca_Kabuli_Chr05	10012718	AA	GG	GG	URR	101512845	uncharacterized protein At4g26450
SNP_34101_A_10019567	NC_021164.1	Ca_Kabuli_Chr05	10019567	GG	CC	CC	INTERGENIC		
SNP_34102_A_10020246	NC_021164.1	Ca_Kabuli_Chr05	10020246	CC	AA	AA	INTERGENIC		
SNP_34103_A_10020248	NC_021164.1	Ca_Kabuli_Chr05	10020248	AA	GG	GG	INTERGENIC		
SNP_34104_A_10020291	NC_021164.1	Ca_Kabuli_Chr05	10020291	TT	CC	CC	INTERGENIC		
SNP_34105_A_10021568	NC_021164.1	Ca_Kabuli_Chr05	10021568	CC	TT	TT	INTERGENIC		
SNP_34106_A_10022067	NC_021164.1	Ca_Kabuli_Chr05	10022067	CC	TT	TT	INTERGENIC		
SNP_34107_A_10022180	NC_021164.1	Ca_Kabuli_Chr05	10022180	TT	AA	AA	INTERGENIC		
SNP_34108_A_10022251	NC_021164.1	Ca_Kabuli_Chr05	10022251	TT	CC	CC	INTERGENIC		
SNP_34109_A_10022691	NC_021164.1	Ca_Kabuli_Chr05	10022691	TT	CC	CC	INTERGENIC		
SNP_34110_A_10022712	NC_021164.1	Ca_Kabuli_Chr05	10022712	GG	TT	TT	INTERGENIC		
SNP_34111_A_10024292	NC_021164.1	Ca_Kabuli_Chr05	10024292	CC	TT	TT	INTERGENIC		
SNP_34112_A_10024327	NC_021164.1	Ca_Kabuli_Chr05	10024327	CC	TT	TT	INTERGENIC		
SNP_34113_A_10024363	NC_021164.1	Ca_Kabuli_Chr05	10024363	TT	GG	GG	INTERGENIC		
SNP_34115_A_10025017	NC_021164.1	Ca_Kabuli_Chr05	10025017	CC	TT	TT	INTERGENIC		
SNP_34117_A_10047844	NC_021164.1	Ca_Kabuli_Chr05	10047844	TT	CC	CC	INTERGENIC		
SNP_34119_A_10050660	NC_021164.1	Ca_Kabuli_Chr05	10050660	AA	TT	TT	DRR	101513494	uncharacterized LOC101513494
SNP_34120_A_10051078	NC_021164.1	Ca_Kabuli_Chr05	10051078	TT	GG	GG	NON_SYNONYMOUS_CODING	101513494	uncharacterized LOC101513494
SNP_34122_A_10057164	NC_021164.1	Ca_Kabuli_Chr05	10057164	CC	TT	TT	URR	101513494	uncharacterized LOC101513494
SNP_34123_A_10057308	NC_021164.1	Ca_Kabuli_Chr05	10057308	CC	AA	AA	URR	101513494	uncharacterized LOC101513494
SNP_34124_A_10059936	NC_021164.1	Ca_Kabuli_Chr05	10059936	AA	GG	GG	INTERGENIC		
SNP_34125_A_10060813	NC_021164.1	Ca_Kabuli_Chr05	10060813	CC	TT	TT	DRR	101513797	choline/ethanolaminephosphotransferase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34126_A_10064380	NC_021164.1	Ca_Kabuli_Chr05	10064380	GG	AA	AA	INTRON	101513797	choline/ethanolaminephosphotransferase 1-like
SNP_34127_A_10076275	NC_021164.1	Ca_Kabuli_Chr05	10076275	GG	AA	AA	INTERGENIC		
SNP_34128_A_10077971	NC_021164.1	Ca_Kabuli_Chr05	10077971	TT	AA	AA	DRR	101514362	cyclin-D-binding Myb-like transcription factor 1
SNP_34130_A_10084767	NC_021164.1	Ca_Kabuli_Chr05	10084767	AA	TT	TT	DRR	101514917	hydroquinone glucosyltransferase-like
SNP_34131_A_10084891	NC_021164.1	Ca_Kabuli_Chr05	10084891	TT	AA	AA	DRR	101514917	hydroquinone glucosyltransferase-like
SNP_34132_A_10085113	NC_021164.1	Ca_Kabuli_Chr05	10085113	CC	GG	GG	DRR	101514917	hydroquinone glucosyltransferase-like
SNP_34133_A_10085146	NC_021164.1	Ca_Kabuli_Chr05	10085146	GG	CC	CC	DRR	101514917	hydroquinone glucosyltransferase-like
SNP_34134_A_10085436	NC_021164.1	Ca_Kabuli_Chr05	10085436	TT	CC	CC	INTERGENIC		
SNP_34135_A_10087685	NC_021164.1	Ca_Kabuli_Chr05	10087685	TT	CC	CC	URR	101514917	hydroquinone glucosyltransferase-like
SNP_34136_A_10093934	NC_021164.1	Ca_Kabuli_Chr05	10093934	GG	TT	TT	INTERGENIC		
SNP_34137_A_10094269	NC_021164.1	Ca_Kabuli_Chr05	10094269	GG	AA	AA	INTERGENIC		
SNP_34138_A_10097979	NC_021164.1	Ca_Kabuli_Chr05	10097979	AA	GG	GG	URR	101491569	uncharacterized LOC101491569
SNP_34139_A_10100715	NC_021164.1	Ca_Kabuli_Chr05	10100715	CC	TT	TT	INTERGENIC		
SNP_34140_A_10113755	NC_021164.1	Ca_Kabuli_Chr05	10113755	CC	TT	TT	INTERGENIC		
SNP_34141_A_10113764	NC_021164.1	Ca_Kabuli_Chr05	10113764	GG	AA	AA	INTERGENIC		
SNP_34142_A_10114060	NC_021164.1	Ca_Kabuli_Chr05	10114060	CC	TT	TT	INTERGENIC		
SNP_34143_A_10114329	NC_021164.1	Ca_Kabuli_Chr05	10114329	AA	CC	CC	INTERGENIC		
SNP_34144_A_10114362	NC_021164.1	Ca_Kabuli_Chr05	10114362	AA	GG	GG	INTERGENIC		
SNP_34145_A_10114367	NC_021164.1	Ca_Kabuli_Chr05	10114367	GG	AA	AA	INTERGENIC		
SNP_34146_A_10115471	NC_021164.1	Ca_Kabuli_Chr05	10115471	TT	CC	CC	INTERGENIC		
SNP_34147_A_10115509	NC_021164.1	Ca_Kabuli_Chr05	10115509	TT	AA	AA	INTERGENIC		
SNP_34148_A_10119455	NC_021164.1	Ca_Kabuli_Chr05	10119455	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34149_A_10119585	NC_021164.1	Ca_Kabuli_Chr05	10119585	GG	AA	AA	INTERGENIC		
SNP_34150_A_10124444	NC_021164.1	Ca_Kabuli_Chr05	10124444	TT	CC	CC	DRR	101491880	Unknown function
SNP_34151_A_10124494	NC_021164.1	Ca_Kabuli_Chr05	10124494	AA	GG	GG	DRR	101491880	Unknown function
SNP_34154_A_10132225	NC_021164.1	Ca_Kabuli_Chr05	10132225	GG	AA	AA	URR	101515240	WPP domain-interacting protein 2-like
SNP_34155_A_10140442	NC_021164.1	Ca_Kabuli_Chr05	10140442	GG	AA	AA	INTERGENIC		
SNP_34156_A_10141116	NC_021164.1	Ca_Kabuli_Chr05	10141116	GG	TT	TT	INTERGENIC		
SNP_34157_A_10141124	NC_021164.1	Ca_Kabuli_Chr05	10141124	TT	GG	GG	INTERGENIC		
SNP_34158_A_10141207	NC_021164.1	Ca_Kabuli_Chr05	10141207	TT	CC	CC	INTERGENIC		
SNP_34159_A_10141250	NC_021164.1	Ca_Kabuli_Chr05	10141250	TT	CC	CC	INTERGENIC		
SNP_34160_A_10141303	NC_021164.1	Ca_Kabuli_Chr05	10141303	AA	GG	GG	INTERGENIC		
SNP_34161_A_10141381	NC_021164.1	Ca_Kabuli_Chr05	10141381	CC	TT	TT	INTERGENIC		
SNP_34162_A_10141579	NC_021164.1	Ca_Kabuli_Chr05	10141579	TT	CC	CC	INTERGENIC		
SNP_34163_A_10141680	NC_021164.1	Ca_Kabuli_Chr05	10141680	CC	TT	TT	INTERGENIC		
SNP_34164_A_10141700	NC_021164.1	Ca_Kabuli_Chr05	10141700	CC	TT	TT	INTERGENIC		
SNP_34165_A_10141744	NC_021164.1	Ca_Kabuli_Chr05	10141744	AA	GG	GG	INTERGENIC		
SNP_34166_A_10141755	NC_021164.1	Ca_Kabuli_Chr05	10141755	TT	AA	AA	INTERGENIC		
SNP_34167_A_10142027	NC_021164.1	Ca_Kabuli_Chr05	10142027	TT	CC	CC	INTERGENIC		
SNP_34168_A_10142849	NC_021164.1	Ca_Kabuli_Chr05	10142849	GG	AA	AA	INTERGENIC		
SNP_34169_A_10142859	NC_021164.1	Ca_Kabuli_Chr05	10142859	TT	CC	CC	INTERGENIC		
SNP_34170_A_10143260	NC_021164.1	Ca_Kabuli_Chr05	10143260	TT	CC	CC	INTERGENIC		
SNP_34171_A_10143514	NC_021164.1	Ca_Kabuli_Chr05	10143514	GG	AA	AA	INTERGENIC		
SNP_34172_A_10143526	NC_021164.1	Ca_Kabuli_Chr05	10143526	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34173_A_10143565	NC_021164.1	Ca_Kabuli_Chr05	10143565	AA	GG	GG	INTERGENIC			
SNP_34174_A_10143600	NC_021164.1	Ca_Kabuli_Chr05	10143600	TT	GG	GG	INTERGENIC			
SNP_34175_A_10143633	NC_021164.1	Ca_Kabuli_Chr05	10143633	TT	GG	GG	INTERGENIC			
SNP_34176_A_10144875	NC_021164.1	Ca_Kabuli_Chr05	10144875	CC	GG	GG	INTERGENIC			
SNP_34177_A_10144906	NC_021164.1	Ca_Kabuli_Chr05	10144906	GG	AA	AA	INTERGENIC			
SNP_34178_A_10145126	NC_021164.1	Ca_Kabuli_Chr05	10145126	CC	GG	GG	INTERGENIC			
SNP_34179_A_10145156	NC_021164.1	Ca_Kabuli_Chr05	10145156	TT	CC	CC	INTERGENIC			
SNP_34180_A_10145567	NC_021164.1	Ca_Kabuli_Chr05	10145567	TT	GG	GG	INTERGENIC			
SNP_34181_A_10146030	NC_021164.1	Ca_Kabuli_Chr05	10146030	CC	TT	TT	INTERGENIC			
SNP_34182_A_10146828	NC_021164.1	Ca_Kabuli_Chr05	10146828	TT	CC	CC	INTERGENIC			
SNP_34183_A_10146874	NC_021164.1	Ca_Kabuli_Chr05	10146874	CC	TT	TT	INTERGENIC			
SNP_34184_A_10147275	NC_021164.1	Ca_Kabuli_Chr05	10147275	CC	TT	TT	INTERGENIC			
SNP_34185_A_10149044	NC_021164.1	Ca_Kabuli_Chr05	10149044	AA	GG	GG	INTERGENIC			
SNP_34186_A_10150239	NC_021164.1	Ca_Kabuli_Chr05	10150239	AA	GG	GG	INTERGENIC			
SNP_34187_A_10150353	NC_021164.1	Ca_Kabuli_Chr05	10150353	GG	AA	AA	INTERGENIC			
SNP_34188_A_10150363	NC_021164.1	Ca_Kabuli_Chr05	10150363	CC	TT	TT	INTERGENIC			
SNP_34189_A_10151746	NC_021164.1	Ca_Kabuli_Chr05	10151746	AA	GG	GG	DRR	101492215	tetrahydrocannabinolic acid synthase	
SNP_34191_A_10160362	NC_021164.1	Ca_Kabuli_Chr05	10160362	TT	CC	CC	INTERGENIC			
SNP_34192_A_10160440	NC_021164.1	Ca_Kabuli_Chr05	10160440	TT	AA	AA	INTERGENIC			
SNP_34193_A_10161989	NC_021164.1	Ca_Kabuli_Chr05	10161989	AA	TT	TT	DRR	101488760	uncharacterized WD repeat-containing protein C2A9.03	
SNP_34194_A_10162003	NC_021164.1	Ca_Kabuli_Chr05	10162003	TT	AA	AA	DRR	101488760	uncharacterized WD repeat-containing protein C2A9.03	
SNP_34195_A_10165801	NC_021164.1	Ca_Kabuli_Chr05	10165801	TT	CC	CC	INTRON	101488760	uncharacterized WD repeat-containing protein C2A9.03	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34196_A_10173122	NC_021164.1	Ca_Kabuli_Chr05	10173122	CC	TT	TT	INTERGENIC		
SNP_34198_A_10176771	NC_021164.1	Ca_Kabuli_Chr05	10176771	GG	AA	AA	DRR	101489308	actin-related protein 8
SNP_34199_A_10185171	NC_021164.1	Ca_Kabuli_Chr05	10185171	AA	TT	TT	INTERGENIC		
SNP_34200_A_10185172	NC_021164.1	Ca_Kabuli_Chr05	10185172	CC	TT	TT	INTERGENIC		
SNP_34201_A_10185686	NC_021164.1	Ca_Kabuli_Chr05	10185686	GG	AA	AA	DRR	101489632	GPI-anchored protein LORELEI-like
SNP_34202_A_10187624	NC_021164.1	Ca_Kabuli_Chr05	10187624	TT	GG	GG	URR	101489308	actin-related protein 8
SNP_34203_A_10187822	NC_021164.1	Ca_Kabuli_Chr05	10187822	GG	CC	CC	INTERGENIC		
SNP_34205_A_10194749	NC_021164.1	Ca_Kabuli_Chr05	10194749	GG	AA	AA	INTERGENIC		
SNP_34206_A_10223096	NC_021164.1	Ca_Kabuli_Chr05	10223096	AA	GG	GG	INTERGENIC		
SNP_34208_A_10223676	NC_021164.1	Ca_Kabuli_Chr05	10223676	AA	CC	CC	INTERGENIC		
SNP_34209_A_10223748	NC_021164.1	Ca_Kabuli_Chr05	10223748	TT	AA	AA	INTERGENIC		
SNP_34210_A_10224794	NC_021164.1	Ca_Kabuli_Chr05	10224794	AA	GG	GG	INTERGENIC		
SNP_34211_A_10225510	NC_021164.1	Ca_Kabuli_Chr05	10225510	TT	AA	AA	INTERGENIC		
SNP_34212_A_10227162	NC_021164.1	Ca_Kabuli_Chr05	10227162	AA	GG	GG	INTERGENIC		
SNP_34213_A_10234886	NC_021164.1	Ca_Kabuli_Chr05	10234886	GG	AA	AA	URR	101492552	phosphatidylinositol/phosphatidylcholine transfer protein SFH13
SNP_34214_A_10244571	NC_021164.1	Ca_Kabuli_Chr05	10244571	AA	CC	CC	INTERGENIC		
SNP_34215_A_10266507	NC_021164.1	Ca_Kabuli_Chr05	10266507	AA	CC	CC	URR	101493430	KH domain-containing protein At5g56140-like
SNP_34216_A_10266675	NC_021164.1	Ca_Kabuli_Chr05	10266675	GG	CC	CC	URR	101493430	KH domain-containing protein At5g56140-like
SNP_34217_A_10267750	NC_021164.1	Ca_Kabuli_Chr05	10267750	TT	CC	CC	INTERGENIC		
SNP_34218_A_10267766	NC_021164.1	Ca_Kabuli_Chr05	10267766	AA	GG	GG	INTERGENIC		
SNP_34219_A_10267827	NC_021164.1	Ca_Kabuli_Chr05	10267827	GG	AA	AA	INTERGENIC		
SNP_34220_A_10268649	NC_021164.1	Ca_Kabuli_Chr05	10268649	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34221_A_10268651	NC_021164.1	Ca_Kabuli_Chr05	10268651	TT	CC	CC	INTERGENIC		
SNP_34222_A_10270192	NC_021164.1	Ca_Kabuli_Chr05	10270192	GG	AA	AA	INTERGENIC		
SNP_34223_A_10270829	NC_021164.1	Ca_Kabuli_Chr05	10270829	AA	GG	GG	INTERGENIC		
SNP_34224_A_10270838	NC_021164.1	Ca_Kabuli_Chr05	10270838	TT	GG	GG	INTERGENIC		
SNP_34225_A_10275985	NC_021164.1	Ca_Kabuli_Chr05	10275985	TT	GG	GG	INTERGENIC		
SNP_34226_A_10275986	NC_021164.1	Ca_Kabuli_Chr05	10275986	CC	TT	TT	INTERGENIC		
SNP_34227_A_10275987	NC_021164.1	Ca_Kabuli_Chr05	10275987	TT	AA	AA	INTERGENIC		
SNP_34228_A_10279518	NC_021164.1	Ca_Kabuli_Chr05	10279518	CC	TT	TT	INTERGENIC		
SNP_34229_A_10283179	NC_021164.1	Ca_Kabuli_Chr05	10283179	GG	AA	AA	SYNONYMOUS_CODING	101499490	uncharacterized LOC101499490
SNP_34230_A_10283863	NC_021164.1	Ca_Kabuli_Chr05	10283863	AA	GG	GG	NON_SYNONYMOUS_CODING	101499490	uncharacterized LOC101499490
SNP_34231_A_10284583	NC_021164.1	Ca_Kabuli_Chr05	10284583	CC	TT	TT	URR	101499490	uncharacterized LOC101499490
SNP_34232_A_10284854	NC_021164.1	Ca_Kabuli_Chr05	10284854	GG	AA	AA	URR	101499490	uncharacterized LOC101499490
SNP_34233_A_10287059	NC_021164.1	Ca_Kabuli_Chr05	10287059	TT	AA	AA	INTERGENIC		
SNP_34234_A_10287069	NC_021164.1	Ca_Kabuli_Chr05	10287069	TT	CC	CC	INTERGENIC		
SNP_34235_A_10288891	NC_021164.1	Ca_Kabuli_Chr05	10288891	TT	AA	AA	INTERGENIC		
SNP_34237_A_10291732	NC_021164.1	Ca_Kabuli_Chr05	10291732	AA	GG	GG	INTERGENIC		
SNP_34238_A_10293128	NC_021164.1	Ca_Kabuli_Chr05	10293128	CC	TT	TT	DRR	101493750	serine/threonine-protein kinase D6PKL1-like
SNP_34241_A_10312222	NC_021164.1	Ca_Kabuli_Chr05	10312222	TT	AA	AA	URR	101494070	probable VAMP-like protein At1g33475
SNP_34242_A_10331643	NC_021164.1	Ca_Kabuli_Chr05	10331643	TT	GG	GG	INTRON	101495784	14-3-3-like protein
SNP_34244_A_10332054	NC_021164.1	Ca_Kabuli_Chr05	10332054	AA	GG	GG	INTRON	101495784	14-3-3-like protein
SNP_34245_A_10341379	NC_021164.1	Ca_Kabuli_Chr05	10341379	CC	TT	TT	URR	101495784	14-3-3-like protein
SNP_34246_A_10341384	NC_021164.1	Ca_Kabuli_Chr05	10341384	TT	CC	CC	URR	101495784	14-3-3-like protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34247_A_10343634	NC_021164.1	Ca_Kabuli_Chr05	10343634	AA	GG	GG	INTERGENIC			
SNP_34248_A_10343780	NC_021164.1	Ca_Kabuli_Chr05	10343780	GG	CC	CC	INTERGENIC			
SNP_34249_A_10348320	NC_021164.1	Ca_Kabuli_Chr05	10348320	AA	GG	GG	INTERGENIC			
SNP_34250_A_10348388	NC_021164.1	Ca_Kabuli_Chr05	10348388	AA	GG	GG	INTERGENIC			
SNP_34251_A_10348765	NC_021164.1	Ca_Kabuli_Chr05	10348765	CC	TT	TT	INTERGENIC			
SNP_34253_A_10348857	NC_021164.1	Ca_Kabuli_Chr05	10348857	GG	AA	AA	INTERGENIC			
SNP_34254_A_10349158	NC_021164.1	Ca_Kabuli_Chr05	10349158	GG	CC	CC	INTERGENIC			
SNP_34255_A_10349164	NC_021164.1	Ca_Kabuli_Chr05	10349164	AA	CC	CC	INTERGENIC			
SNP_34256_A_10349191	NC_021164.1	Ca_Kabuli_Chr05	10349191	AA	GG	GG	INTERGENIC			
SNP_34257_A_10349686	NC_021164.1	Ca_Kabuli_Chr05	10349686	AA	TT	TT	INTERGENIC			
SNP_34258_A_10349694	NC_021164.1	Ca_Kabuli_Chr05	10349694	TT	GG	GG	INTERGENIC			
SNP_34259_A_10363219	NC_021164.1	Ca_Kabuli_Chr05	10363219	GG	AA	AA	DRR	101496106		dual specificity protein phosphatase PHS1-like
SNP_34260_A_10363412	NC_021164.1	Ca_Kabuli_Chr05	10363412	CC	TT	TT	DRR	101496106		dual specificity protein phosphatase PHS1-like
SNP_34261_A_10363449	NC_021164.1	Ca_Kabuli_Chr05	10363449	AA	GG	GG	DRR	101496106		dual specificity protein phosphatase PHS1-like
SNP_34262_A_10366741	NC_021164.1	Ca_Kabuli_Chr05	10366741	AA	GG	GG	INTERGENIC			
SNP_34263_A_10374404	NC_021164.1	Ca_Kabuli_Chr05	10374404	CC	TT	TT	INTRON	101500113		zinc finger protein CONSTANS-LIKE 4-like
SNP_34264_A_10376091	NC_021164.1	Ca_Kabuli_Chr05	10376091	AA	CC	CC	INTERGENIC			
SNP_34266_A_10376341	NC_021164.1	Ca_Kabuli_Chr05	10376341	TT	CC	CC	INTERGENIC			
SNP_34267_A_10376353	NC_021164.1	Ca_Kabuli_Chr05	10376353	CC	TT	TT	INTERGENIC			
SNP_34268_A_10376428	NC_021164.1	Ca_Kabuli_Chr05	10376428	AA	GG	GG	INTERGENIC			
SNP_34269_A_10379347	NC_021164.1	Ca_Kabuli_Chr05	10379347	GG	AA	AA	URR	101500113		zinc finger protein CONSTANS-LIKE 4-like
SNP_34270_A_10381744	NC_021164.1	Ca_Kabuli_Chr05	10381744	AA	GG	GG	NON_SYNONYMOUS_CODING	101500443		Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34271_A_10381855	NC_021164.1	Ca_Kabuli_Chr05	10381855	GG	TT	TT	NON_SYNONYMOUS_CODING	101500443	Unknown function
SNP_34272_A_10382625	NC_021164.1	Ca_Kabuli_Chr05	10382625	GG	AA	AA	SYNONYMOUS_CODING	101500443	Unknown function
SNP_34273_A_10382665	NC_021164.1	Ca_Kabuli_Chr05	10382665	GG	AA	AA	NON_SYNONYMOUS_CODING	101500443	Unknown function
SNP_34274_A_10382815	NC_021164.1	Ca_Kabuli_Chr05	10382815	GG	AA	AA	NON_SYNONYMOUS_CODING	101500443	Unknown function
SNP_34275_A_10383226	NC_021164.1	Ca_Kabuli_Chr05	10383226	GG	AA	AA	NON_SYNONYMOUS_CODING	101500443	Unknown function
SNP_34276_A_10383276	NC_021164.1	Ca_Kabuli_Chr05	10383276	TT	GG	GG	SYNONYMOUS_CODING	101500443	Unknown function
SNP_34277_A_10383353	NC_021164.1	Ca_Kabuli_Chr05	10383353	GG	AA	AA	STOP_GAINED	101500443	Unknown function
SNP_34278_A_10383579	NC_021164.1	Ca_Kabuli_Chr05	10383579	AA	GG	GG	SYNONYMOUS_CODING	101500443	Unknown function
SNP_34279_A_10387086	NC_021164.1	Ca_Kabuli_Chr05	10387086	TT	AA	AA	URR	101500443	Unknown function
SNP_34280_A_10387700	NC_021164.1	Ca_Kabuli_Chr05	10387700	AA	TT	TT	URR	101500443	Unknown function
SNP_34282_A_10394194	NC_021164.1	Ca_Kabuli_Chr05	10394194	TT	GG	GG	INTERGENIC		
SNP_34283_A_10394241	NC_021164.1	Ca_Kabuli_Chr05	10394241	AA	TT	TT	INTERGENIC		
SNP_34284_A_10394249	NC_021164.1	Ca_Kabuli_Chr05	10394249	TT	CC	CC	INTERGENIC		
SNP_34285_A_10394325	NC_021164.1	Ca_Kabuli_Chr05	10394325	TT	CC	CC	INTERGENIC		
SNP_34286_A_10394435	NC_021164.1	Ca_Kabuli_Chr05	10394435	TT	CC	CC	INTERGENIC		
SNP_34287_A_10396651	NC_021164.1	Ca_Kabuli_Chr05	10396651	GG	AA	AA	INTERGENIC		
SNP_34288_A_10396652	NC_021164.1	Ca_Kabuli_Chr05	10396652	AA	GG	GG	INTERGENIC		
SNP_34290_A_10402348	NC_021164.1	Ca_Kabuli_Chr05	10402348	AA	TT	TT	INTERGENIC		
SNP_34291_A_10405040	NC_021164.1	Ca_Kabuli_Chr05	10405040	AA	GG	GG	INTERGENIC		
SNP_34293_A_10411308	NC_021164.1	Ca_Kabuli_Chr05	10411308	AA	GG	GG	INTERGENIC		
SNP_34294_A_10413739	NC_021164.1	Ca_Kabuli_Chr05	10413739	AA	GG	GG	URR	101497416	endoglucanase 9-like
SNP_34296_A_10413954	NC_021164.1	Ca_Kabuli_Chr05	10413954	AA	GG	GG	URR	101497416	endoglucanase 9-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34298_A_10414078	NC_021164.1	Ca_Kabuli_Chr05	10414078	CC	TT	TT	URR	101497416	endoglucanase 9-like
SNP_34299_A_10414094	NC_021164.1	Ca_Kabuli_Chr05	10414094	AA	TT	TT	URR	101497416	endoglucanase 9-like
SNP_34300_A_10414113	NC_021164.1	Ca_Kabuli_Chr05	10414113	AA	TT	TT	URR	101497416	endoglucanase 9-like
SNP_34301_A_10414125	NC_021164.1	Ca_Kabuli_Chr05	10414125	AA	TT	TT	URR	101497416	endoglucanase 9-like
SNP_34302_A_10414173	NC_021164.1	Ca_Kabuli_Chr05	10414173	CC	AA	AA	URR	101497416	endoglucanase 9-like
SNP_34303_A_10414513	NC_021164.1	Ca_Kabuli_Chr05	10414513	TT	CC	CC	URR	101497416	endoglucanase 9-like
SNP_34304_A_10414570	NC_021164.1	Ca_Kabuli_Chr05	10414570	TT	AA	AA	URR	101497416	endoglucanase 9-like
SNP_34305_A_10419055	NC_021164.1	Ca_Kabuli_Chr05	10419055	CC	TT	TT	INTERGENIC		
SNP_34306_A_10423615	NC_021164.1	Ca_Kabuli_Chr05	10423615	AA	GG	GG	INTERGENIC		
SNP_34307_A_10433844	NC_021164.1	Ca_Kabuli_Chr05	10433844	GG	AA	AA	INTERGENIC		
SNP_34308_A_10433945	NC_021164.1	Ca_Kabuli_Chr05	10433945	CC	AA	AA	INTERGENIC		
SNP_34309_A_10433946	NC_021164.1	Ca_Kabuli_Chr05	10433946	CC	TT	TT	INTERGENIC		
SNP_34310_A_10434040	NC_021164.1	Ca_Kabuli_Chr05	10434040	AA	GG	GG	INTERGENIC		
SNP_34311_A_10437120	NC_021164.1	Ca_Kabuli_Chr05	10437120	GG	AA	AA	INTERGENIC		
SNP_34312_A_10440331	NC_021164.1	Ca_Kabuli_Chr05	10440331	CC	TT	TT	INTERGENIC		
SNP_34313_A_10440916	NC_021164.1	Ca_Kabuli_Chr05	10440916	TT	AA	AA	INTERGENIC		
SNP_34314_A_10443692	NC_021164.1	Ca_Kabuli_Chr05	10443692	CC	TT	TT	INTERGENIC		
SNP_34315_A_10443758	NC_021164.1	Ca_Kabuli_Chr05	10443758	CC	GG	GG	INTERGENIC		
SNP_34316_A_10444061	NC_021164.1	Ca_Kabuli_Chr05	10444061	GG	AA	AA	INTERGENIC		
SNP_34317_A_10446169	NC_021164.1	Ca_Kabuli_Chr05	10446169	TT	CC	CC	URR	101500755	uncharacterized LOC101500755
SNP_34318_A_10446189	NC_021164.1	Ca_Kabuli_Chr05	10446189	TT	CC	CC	URR	101500755	uncharacterized LOC101500755
SNP_34319_A_10447817	NC_021164.1	Ca_Kabuli_Chr05	10447817	GG	AA	AA	URR	101500755	uncharacterized LOC101500755

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34320_A_10448454	NC_021164.1	Ca_Kabuli_Chr05	10448454	AA	GG	GG	INTERGENIC			
SNP_34321_A_10449851	NC_021164.1	Ca_Kabuli_Chr05	10449851	GG	TT	TT	INTERGENIC			
SNP_34322_A_10449852	NC_021164.1	Ca_Kabuli_Chr05	10449852	TT	GG	GG	INTERGENIC			
SNP_34323_A_10450651	NC_021164.1	Ca_Kabuli_Chr05	10450651	AA	GG	GG	INTERGENIC			
SNP_34324_A_10452721	NC_021164.1	Ca_Kabuli_Chr05	10452721	GG	AA	AA	INTERGENIC			
SNP_34325_A_10453513	NC_021164.1	Ca_Kabuli_Chr05	10453513	GG	AA	AA	INTERGENIC			
SNP_34327_A_10470703	NC_021164.1	Ca_Kabuli_Chr05	10470703	CC	AA	AA	INTERGENIC			
SNP_34328_A_10470992	NC_021164.1	Ca_Kabuli_Chr05	10470992	CC	TT	TT	INTERGENIC			
SNP_34329_A_10471842	NC_021164.1	Ca_Kabuli_Chr05	10471842	CC	GG	GG	INTERGENIC			
SNP_34330_A_10474365	NC_021164.1	Ca_Kabuli_Chr05	10474365	GG	AA	AA	INTERGENIC			
SNP_34331_A_10474577	NC_021164.1	Ca_Kabuli_Chr05	10474577	CC	GG	GG	INTERGENIC			
SNP_34332_A_10474591	NC_021164.1	Ca_Kabuli_Chr05	10474591	GG	AA	AA	INTERGENIC			
SNP_34333_A_10474594	NC_021164.1	Ca_Kabuli_Chr05	10474594	CC	TT	TT	INTERGENIC			
SNP_34334_A_10475743	NC_021164.1	Ca_Kabuli_Chr05	10475743	AA	CC	CC	INTERGENIC			
SNP_34335_A_10476100	NC_021164.1	Ca_Kabuli_Chr05	10476100	GG	AA	AA	INTERGENIC			
SNP_34336_A_10476235	NC_021164.1	Ca_Kabuli_Chr05	10476235	GG	AA	AA	INTERGENIC			
SNP_34337_A_10476250	NC_021164.1	Ca_Kabuli_Chr05	10476250	GG	AA	AA	INTERGENIC			
SNP_34338_A_10477999	NC_021164.1	Ca_Kabuli_Chr05	10477999	AA	GG	GG	INTERGENIC			
SNP_34339_A_10478204	NC_021164.1	Ca_Kabuli_Chr05	10478204	AA	CC	CC	INTERGENIC			
SNP_34340_A_10485904	NC_021164.1	Ca_Kabuli_Chr05	10485904	TT	GG	GG	INTERGENIC			
SNP_34341_A_10487489	NC_021164.1	Ca_Kabuli_Chr05	10487489	TT	CC	CC	INTERGENIC			
SNP_34342_A_10490577	NC_021164.1	Ca_Kabuli_Chr05	10490577	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34343_A_10491090	NC_021164.1	Ca_Kabuli_Chr05	10491090	CC	TT	TT	INTERGENIC		
SNP_34344_A_10494822	NC_021164.1	Ca_Kabuli_Chr05	10494822	AA	CC	CC	INTERGENIC		
SNP_34345_A_10495053	NC_021164.1	Ca_Kabuli_Chr05	10495053	CC	TT	TT	INTERGENIC		
SNP_34346_A_10495851	NC_021164.1	Ca_Kabuli_Chr05	10495851	GG	TT	TT	INTERGENIC		
SNP_34347_A_10496904	NC_021164.1	Ca_Kabuli_Chr05	10496904	CC	TT	TT	INTERGENIC		
SNP_34348_A_10496908	NC_021164.1	Ca_Kabuli_Chr05	10496908	AA	GG	GG	INTERGENIC		
SNP_34349_A_10497209	NC_021164.1	Ca_Kabuli_Chr05	10497209	AA	CC	CC	INTERGENIC		
SNP_34351_A_10499262	NC_021164.1	Ca_Kabuli_Chr05	10499262	GG	AA	AA	URR	101410557	transfer RNA isoleucine (anticodon UAU)
SNP_34352_A_10504811	NC_021164.1	Ca_Kabuli_Chr05	10504811	TT	AA	AA	INTERGENIC		
SNP_34353_A_10504817	NC_021164.1	Ca_Kabuli_Chr05	10504817	GG	AA	AA	INTERGENIC		
SNP_34354_A_10507057	NC_021164.1	Ca_Kabuli_Chr05	10507057	CC	AA	AA	DRR	101497750	uncharacterized LOC101497750
SNP_34355_A_10507236	NC_021164.1	Ca_Kabuli_Chr05	10507236	AA	TT	TT	DRR	101497750	uncharacterized LOC101497750
SNP_34357_A_10510378	NC_021164.1	Ca_Kabuli_Chr05	10510378	AA	GG	GG	INTRON	101497750	uncharacterized LOC101497750
SNP_34358_A_10513982	NC_021164.1	Ca_Kabuli_Chr05	10513982	AA	TT	TT	INTERGENIC		
SNP_34361_A_10516316	NC_021164.1	Ca_Kabuli_Chr05	10516316	TT	CC	CC	INTRON	101501697	SUN domain-containing ossification factor-like
SNP_34362_A_10519133	NC_021164.1	Ca_Kabuli_Chr05	10519133	AA	TT	TT	INTRON	101501697	SUN domain-containing ossification factor-like
SNP_34363_A_10521475	NC_021164.1	Ca_Kabuli_Chr05	10521475	CC	GG	GG	URR	101501697	SUN domain-containing ossification factor-like
SNP_34364_A_10521476	NC_021164.1	Ca_Kabuli_Chr05	10521476	AA	CC	CC	URR	101501697	SUN domain-containing ossification factor-like
SNP_34365_A_10523477	NC_021164.1	Ca_Kabuli_Chr05	10523477	TT	CC	CC	INTERGENIC		
SNP_34366_A_10524133	NC_021164.1	Ca_Kabuli_Chr05	10524133	AA	TT	TT	INTERGENIC		
SNP_34367_A_10527959	NC_021164.1	Ca_Kabuli_Chr05	10527959	TT	CC	CC	INTRON	101502023	uncharacterized LOC101502023
SNP_34368_A_10531040	NC_021164.1	Ca_Kabuli_Chr05	10531040	GG	CC	CC	INTRON	101502023	uncharacterized LOC101502023

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34370_A_10532921	NC_021164.1	Ca_Kabuli_Chr05	10532921	AA	GG	GG	INTERGENIC		
SNP_34371_A_10532923	NC_021164.1	Ca_Kabuli_Chr05	10532923	CC	TT	TT	INTERGENIC		
SNP_34372_A_10544643	NC_021164.1	Ca_Kabuli_Chr05	10544643	CC	TT	TT	SYNONYMOUS_CODING	101498072	glyoxylate/hydroxypyruvate reductase HPR3
SNP_34374_A_10550882	NC_021164.1	Ca_Kabuli_Chr05	10550882	GG	AA	AA	URR	101498072	glyoxylate/hydroxypyruvate reductase HPR3
SNP_34375_A_10551066	NC_021164.1	Ca_Kabuli_Chr05	10551066	GG	AA	AA	URR	101498072	glyoxylate/hydroxypyruvate reductase HPR3
SNP_34376_A_10554017	NC_021164.1	Ca_Kabuli_Chr05	10554017	GG	TT	TT	INTERGENIC		
SNP_34377_A_10555422	NC_021164.1	Ca_Kabuli_Chr05	10555422	CC	TT	TT	INTERGENIC		
SNP_34378_A_10555747	NC_021164.1	Ca_Kabuli_Chr05	10555747	AA	GG	GG	INTERGENIC		
SNP_34379_A_10558727	NC_021164.1	Ca_Kabuli_Chr05	10558727	CC	GG	GG	INTERGENIC		
SNP_34380_A_10558736	NC_021164.1	Ca_Kabuli_Chr05	10558736	AA	GG	GG	INTERGENIC		
SNP_34381_A_10559024	NC_021164.1	Ca_Kabuli_Chr05	10559024	AA	GG	GG	INTERGENIC		
SNP_34383_A_10560774	NC_021164.1	Ca_Kabuli_Chr05	10560774	GG	AA	AA	DRR	101498616	uncharacterized LOC101498616
SNP_34384_A_10564554	NC_021164.1	Ca_Kabuli_Chr05	10564554	TT	CC	CC	INTRON	101498616	uncharacterized LOC101498616
SNP_34386_A_10575420	NC_021164.1	Ca_Kabuli_Chr05	10575420	AA	GG	GG	INTERGENIC		
SNP_34387_A_10588406	NC_021164.1	Ca_Kabuli_Chr05	10588406	AA	GG	GG	INTERGENIC		
SNP_34388_A_10592033	NC_021164.1	Ca_Kabuli_Chr05	10592033	GG	AA	AA	INTERGENIC		
SNP_34389_A_10592057	NC_021164.1	Ca_Kabuli_Chr05	10592057	AA	TT	TT	INTERGENIC		
SNP_34390_A_10592058	NC_021164.1	Ca_Kabuli_Chr05	10592058	AA	GG	GG	INTERGENIC		
SNP_34391_A_10592978	NC_021164.1	Ca_Kabuli_Chr05	10592978	AA	GG	GG	INTERGENIC		
SNP_34392_A_10594591	NC_021164.1	Ca_Kabuli_Chr05	10594591	TT	AA	AA	INTERGENIC		
SNP_34393_A_10596949	NC_021164.1	Ca_Kabuli_Chr05	10596949	TT	AA	AA	INTERGENIC		
SNP_34394_A_10597085	NC_021164.1	Ca_Kabuli_Chr05	10597085	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34395_A_10598419	NC_021164.1	Ca_Kabuli_Chr05	10598419	AA	CC	CC	INTERGENIC			
SNP_34396_A_10598822	NC_021164.1	Ca_Kabuli_Chr05	10598822	TT	CC	CC	INTERGENIC			
SNP_34397_A_10600508	NC_021164.1	Ca_Kabuli_Chr05	10600508	AA	GG	GG	INTERGENIC			
SNP_34398_A_10603049	NC_021164.1	Ca_Kabuli_Chr05	10603049	AA	GG	GG	INTERGENIC			
SNP_34399_A_10604953	NC_021164.1	Ca_Kabuli_Chr05	10604953	AA	GG	GG	INTERGENIC			
SNP_34400_A_10605204	NC_021164.1	Ca_Kabuli_Chr05	10605204	GG	AA	AA	INTERGENIC			
SNP_34401_A_10605238	NC_021164.1	Ca_Kabuli_Chr05	10605238	CC	AA	AA	INTERGENIC			
SNP_34402_A_10605274	NC_021164.1	Ca_Kabuli_Chr05	10605274	CC	TT	TT	INTERGENIC			
SNP_34403_A_10605397	NC_021164.1	Ca_Kabuli_Chr05	10605397	TT	AA	AA	INTERGENIC			
SNP_34405_A_10605652	NC_021164.1	Ca_Kabuli_Chr05	10605652	TT	GG	GG	INTERGENIC			
SNP_34407_A_10634191	NC_021164.1	Ca_Kabuli_Chr05	10634191	CC	TT	TT	INTERGENIC			
SNP_34408_A_10647540	NC_021164.1	Ca_Kabuli_Chr05	10647540	GG	AA	AA	INTERGENIC			
SNP_34409_A_10659976	NC_021164.1	Ca_Kabuli_Chr05	10659976	AA	GG	GG	INTERGENIC			
SNP_34410_A_10668048	NC_021164.1	Ca_Kabuli_Chr05	10668048	GG	TT	TT	URR	101503627	uncharacterized LOC101503627	
SNP_34411_A_10671767	NC_021164.1	Ca_Kabuli_Chr05	10671767	TT	AA	AA	INTERGENIC			
SNP_34412_A_10672038	NC_021164.1	Ca_Kabuli_Chr05	10672038	CC	TT	TT	INTERGENIC			
SNP_34413_A_10672102	NC_021164.1	Ca_Kabuli_Chr05	10672102	CC	TT	TT	INTERGENIC			
SNP_34414_A_10672108	NC_021164.1	Ca_Kabuli_Chr05	10672108	TT	CC	CC	INTERGENIC			
SNP_34415_A_10672242	NC_021164.1	Ca_Kabuli_Chr05	10672242	GG	TT	TT	INTERGENIC			
SNP_34416_A_10672246	NC_021164.1	Ca_Kabuli_Chr05	10672246	CC	AA	AA	INTERGENIC			
SNP_34417_A_10672313	NC_021164.1	Ca_Kabuli_Chr05	10672313	AA	GG	GG	INTERGENIC			
SNP_34418_A_10672325	NC_021164.1	Ca_Kabuli_Chr05	10672325	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34419_A_10672377	NC_021164.1	Ca_Kabuli_Chr05	10672377	GG	CC	CC	INTERGENIC			
SNP_34420_A_10672390	NC_021164.1	Ca_Kabuli_Chr05	10672390	GG	AA	AA	INTERGENIC			
SNP_34421_A_10672510	NC_021164.1	Ca_Kabuli_Chr05	10672510	CC	TT	TT	INTERGENIC			
SNP_34422_A_10672635	NC_021164.1	Ca_Kabuli_Chr05	10672635	GG	AA	AA	INTERGENIC			
SNP_34423_A_10672969	NC_021164.1	Ca_Kabuli_Chr05	10672969	TT	CC	CC	INTERGENIC			
SNP_34424_A_10673009	NC_021164.1	Ca_Kabuli_Chr05	10673009	TT	CC	CC	INTERGENIC			
SNP_34425_A_10673520	NC_021164.1	Ca_Kabuli_Chr05	10673520	GG	AA	AA	INTERGENIC			
SNP_34426_A_10673524	NC_021164.1	Ca_Kabuli_Chr05	10673524	GG	AA	AA	INTERGENIC			
SNP_34427_A_10673542	NC_021164.1	Ca_Kabuli_Chr05	10673542	GG	AA	AA	INTERGENIC			
SNP_34428_A_10673602	NC_021164.1	Ca_Kabuli_Chr05	10673602	TT	AA	AA	INTERGENIC			
SNP_34429_A_10673605	NC_021164.1	Ca_Kabuli_Chr05	10673605	TT	CC	CC	INTERGENIC			
SNP_34430_A_10673619	NC_021164.1	Ca_Kabuli_Chr05	10673619	GG	CC	CC	INTERGENIC			
SNP_34431_A_10673831	NC_021164.1	Ca_Kabuli_Chr05	10673831	GG	TT	TT	INTERGENIC			
SNP_34432_A_10673882	NC_021164.1	Ca_Kabuli_Chr05	10673882	TT	AA	AA	INTERGENIC			
SNP_34433_A_10674211	NC_021164.1	Ca_Kabuli_Chr05	10674211	CC	TT	TT	INTERGENIC			
SNP_34434_A_10674303	NC_021164.1	Ca_Kabuli_Chr05	10674303	AA	TT	TT	INTERGENIC			
SNP_34435_A_10674506	NC_021164.1	Ca_Kabuli_Chr05	10674506	GG	TT	TT	INTERGENIC			
SNP_34436_A_10674546	NC_021164.1	Ca_Kabuli_Chr05	10674546	AA	GG	GG	INTERGENIC			
SNP_34437_A_10674718	NC_021164.1	Ca_Kabuli_Chr05	10674718	AA	GG	GG	INTERGENIC			
SNP_34438_A_10674731	NC_021164.1	Ca_Kabuli_Chr05	10674731	CC	TT	TT	INTERGENIC			
SNP_34439_A_10674732	NC_021164.1	Ca_Kabuli_Chr05	10674732	TT	CC	CC	INTERGENIC			
SNP_34440_A_10674884	NC_021164.1	Ca_Kabuli_Chr05	10674884	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34441_A_10675863	NC_021164.1	Ca_Kabuli_Chr05	10675863	GG	AA	AA	INTERGENIC			
SNP_34442_A_10676063	NC_021164.1	Ca_Kabuli_Chr05	10676063	GG	CC	CC	INTERGENIC			
SNP_34443_A_10676093	NC_021164.1	Ca_Kabuli_Chr05	10676093	CC	TT	TT	INTERGENIC			
SNP_34444_A_10676159	NC_021164.1	Ca_Kabuli_Chr05	10676159	GG	AA	AA	INTERGENIC			
SNP_34445_A_10676416	NC_021164.1	Ca_Kabuli_Chr05	10676416	GG	AA	AA	INTERGENIC			
SNP_34446_A_10676548	NC_021164.1	Ca_Kabuli_Chr05	10676548	AA	TT	TT	INTERGENIC			
SNP_34447_A_10676603	NC_021164.1	Ca_Kabuli_Chr05	10676603	TT	CC	CC	INTERGENIC			
SNP_34448_A_10676608	NC_021164.1	Ca_Kabuli_Chr05	10676608	AA	GG	GG	INTERGENIC			
SNP_34449_A_10676623	NC_021164.1	Ca_Kabuli_Chr05	10676623	GG	AA	AA	INTERGENIC			
SNP_34450_A_10676630	NC_021164.1	Ca_Kabuli_Chr05	10676630	CC	TT	TT	INTERGENIC			
SNP_34451_A_10676638	NC_021164.1	Ca_Kabuli_Chr05	10676638	CC	AA	AA	INTERGENIC			
SNP_34452_A_10676761	NC_021164.1	Ca_Kabuli_Chr05	10676761	TT	GG	GG	INTERGENIC			
SNP_34453_A_10677209	NC_021164.1	Ca_Kabuli_Chr05	10677209	TT	CC	CC	INTERGENIC			
SNP_34454_A_10677868	NC_021164.1	Ca_Kabuli_Chr05	10677868	GG	AA	AA	INTERGENIC			
SNP_34455_A_10678033	NC_021164.1	Ca_Kabuli_Chr05	10678033	CC	TT	TT	INTERGENIC			
SNP_34456_A_10678076	NC_021164.1	Ca_Kabuli_Chr05	10678076	GG	CC	CC	INTERGENIC			
SNP_34457_A_10678206	NC_021164.1	Ca_Kabuli_Chr05	10678206	AA	GG	GG	INTERGENIC			
SNP_34458_A_10678331	NC_021164.1	Ca_Kabuli_Chr05	10678331	GG	AA	AA	INTERGENIC			
SNP_34460_A_10679884	NC_021164.1	Ca_Kabuli_Chr05	10679884	TT	AA	AA	INTERGENIC			
SNP_34461_A_10679910	NC_021164.1	Ca_Kabuli_Chr05	10679910	CC	TT	TT	INTERGENIC			
SNP_34462_A_10679919	NC_021164.1	Ca_Kabuli_Chr05	10679919	TT	CC	CC	INTERGENIC			
SNP_34463_A_10679967	NC_021164.1	Ca_Kabuli_Chr05	10679967	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34464_A_10679989	NC_021164.1	Ca_Kabuli_Chr05	10679989	GG	CC	CC	INTERGENIC			
SNP_34465_A_10680016	NC_021164.1	Ca_Kabuli_Chr05	10680016	CC	TT	TT	INTERGENIC			
SNP_34466_A_10680056	NC_021164.1	Ca_Kabuli_Chr05	10680056	GG	AA	AA	INTERGENIC			
SNP_34467_A_10680152	NC_021164.1	Ca_Kabuli_Chr05	10680152	AA	TT	TT	INTERGENIC			
SNP_34468_A_10680168	NC_021164.1	Ca_Kabuli_Chr05	10680168	AA	TT	TT	INTERGENIC			
SNP_34469_A_10680170	NC_021164.1	Ca_Kabuli_Chr05	10680170	GG	AA	AA	INTERGENIC			
SNP_34470_A_10680185	NC_021164.1	Ca_Kabuli_Chr05	10680185	CC	TT	TT	INTERGENIC			
SNP_34471_A_10680193	NC_021164.1	Ca_Kabuli_Chr05	10680193	TT	GG	GG	INTERGENIC			
SNP_34472_A_10686889	NC_021164.1	Ca_Kabuli_Chr05	10686889	AA	GG	GG	INTERGENIC			
SNP_34473_A_10686922	NC_021164.1	Ca_Kabuli_Chr05	10686922	CC	TT	TT	INTERGENIC			
SNP_34474_A_10686942	NC_021164.1	Ca_Kabuli_Chr05	10686942	TT	GG	GG	INTERGENIC			
SNP_34475_A_10686975	NC_021164.1	Ca_Kabuli_Chr05	10686975	TT	CC	CC	INTERGENIC			
SNP_34477_A_10687100	NC_021164.1	Ca_Kabuli_Chr05	10687100	TT	GG	GG	INTERGENIC			
SNP_34478_A_10687251	NC_021164.1	Ca_Kabuli_Chr05	10687251	GG	AA	AA	INTERGENIC			
SNP_34479_A_10687281	NC_021164.1	Ca_Kabuli_Chr05	10687281	GG	TT	TT	INTERGENIC			
SNP_34480_A_10687320	NC_021164.1	Ca_Kabuli_Chr05	10687320	GG	TT	TT	INTERGENIC			
SNP_34481_A_10687375	NC_021164.1	Ca_Kabuli_Chr05	10687375	TT	GG	GG	INTERGENIC			
SNP_34482_A_10687455	NC_021164.1	Ca_Kabuli_Chr05	10687455	AA	CC	CC	INTERGENIC			
SNP_34483_A_10687490	NC_021164.1	Ca_Kabuli_Chr05	10687490	TT	CC	CC	INTERGENIC			
SNP_34484_A_10687500	NC_021164.1	Ca_Kabuli_Chr05	10687500	TT	AA	AA	INTERGENIC			
SNP_34485_A_10687502	NC_021164.1	Ca_Kabuli_Chr05	10687502	CC	TT	TT	INTERGENIC			
SNP_34486_A_10687823	NC_021164.1	Ca_Kabuli_Chr05	10687823	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34487_A_10687859	NC_021164.1	Ca_Kabuli_Chr05	10687859	AA	GG	GG	INTERGENIC			
SNP_34488_A_10688106	NC_021164.1	Ca_Kabuli_Chr05	10688106	CC	TT	TT	INTERGENIC			
SNP_34489_A_10688368	NC_021164.1	Ca_Kabuli_Chr05	10688368	TT	GG	GG	INTERGENIC			
SNP_34490_A_10688549	NC_021164.1	Ca_Kabuli_Chr05	10688549	GG	CC	CC	INTERGENIC			
SNP_34491_A_10688585	NC_021164.1	Ca_Kabuli_Chr05	10688585	CC	TT	TT	INTERGENIC			
SNP_34492_A_10688847	NC_021164.1	Ca_Kabuli_Chr05	10688847	GG	TT	TT	INTERGENIC			
SNP_34493_A_10688886	NC_021164.1	Ca_Kabuli_Chr05	10688886	CC	TT	TT	INTERGENIC			
SNP_34494_A_10688896	NC_021164.1	Ca_Kabuli_Chr05	10688896	TT	AA	AA	INTERGENIC			
SNP_34495_A_10688907	NC_021164.1	Ca_Kabuli_Chr05	10688907	AA	CC	CC	INTERGENIC			
SNP_34497_A_10689167	NC_021164.1	Ca_Kabuli_Chr05	10689167	TT	CC	CC	INTERGENIC			
SNP_34498_A_10689239	NC_021164.1	Ca_Kabuli_Chr05	10689239	CC	TT	TT	INTERGENIC			
SNP_34499_A_10689433	NC_021164.1	Ca_Kabuli_Chr05	10689433	TT	CC	CC	INTERGENIC			
SNP_34501_A_10689693	NC_021164.1	Ca_Kabuli_Chr05	10689693	GG	CC	CC	INTERGENIC			
SNP_34502_A_10690076	NC_021164.1	Ca_Kabuli_Chr05	10690076	TT	AA	AA	INTERGENIC			
SNP_34503_A_10690942	NC_021164.1	Ca_Kabuli_Chr05	10690942	TT	CC	CC	INTERGENIC			
SNP_34504_A_10692068	NC_021164.1	Ca_Kabuli_Chr05	10692068	AA	GG	GG	INTERGENIC			
SNP_34506_A_10704670	NC_021164.1	Ca_Kabuli_Chr05	10704670	AA	CC	CC	INTERGENIC			
SNP_34507_A_10759700	NC_021164.1	Ca_Kabuli_Chr05	10759700	TT	CC	CC	URR	101507718		uncharacterized LOC101507718
SNP_34508_A_10759855	NC_021164.1	Ca_Kabuli_Chr05	10759855	GG	TT	TT	URR	101507718		uncharacterized LOC101507718
SNP_34509_A_10953802	NC_021164.1	Ca_Kabuli_Chr05	10953802	GG	AA	AA	INTERGENIC			
SNP_34510_A_10954884	NC_021164.1	Ca_Kabuli_Chr05	10954884	TT	CC	CC	INTERGENIC			
SNP_34512_A_11075430	NC_021164.1	Ca_Kabuli_Chr05	11075430	AA	GG	GG	URR	101506422		putative pectinesterase/pectinesterase inhibitor 24

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34513_A_11075442	NC_021164.1	Ca_Kabuli_Chr05	11075442	AA	GG	GG	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34514_A_11075448	NC_021164.1	Ca_Kabuli_Chr05	11075448	AA	GG	GG	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34515_A_11075471	NC_021164.1	Ca_Kabuli_Chr05	11075471	AA	GG	GG	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34516_A_11075490	NC_021164.1	Ca_Kabuli_Chr05	11075490	AA	GG	GG	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34517_A_11075517	NC_021164.1	Ca_Kabuli_Chr05	11075517	AA	CC	CC	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34518_A_11075547	NC_021164.1	Ca_Kabuli_Chr05	11075547	CC	TT	TT	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34519_A_11075567	NC_021164.1	Ca_Kabuli_Chr05	11075567	TT	AA	AA	URR	101506422	putative pectinesterase/pectinesterase inhibitor 24
SNP_34520_A_11117178	NC_021164.1	Ca_Kabuli_Chr05	11117178	TT	CC	CC	INTERGENIC		
SNP_34522_A_11131266	NC_021164.1	Ca_Kabuli_Chr05	11131266	GG	TT	TT	INTERGENIC		
SNP_34523_A_11131356	NC_021164.1	Ca_Kabuli_Chr05	11131356	TT	CC	CC	INTERGENIC		
SNP_34524_A_11131592	NC_021164.1	Ca_Kabuli_Chr05	11131592	GG	AA	AA	INTERGENIC		
SNP_34525_A_11132450	NC_021164.1	Ca_Kabuli_Chr05	11132450	AA	TT	TT	INTERGENIC		
SNP_34527_A_11132559	NC_021164.1	Ca_Kabuli_Chr05	11132559	TT	AA	AA	INTERGENIC		
SNP_34528_A_11132567	NC_021164.1	Ca_Kabuli_Chr05	11132567	TT	CC	CC	INTERGENIC		
SNP_34529_A_11132616	NC_021164.1	Ca_Kabuli_Chr05	11132616	AA	TT	TT	INTERGENIC		
SNP_34530_A_11132747	NC_021164.1	Ca_Kabuli_Chr05	11132747	TT	CC	CC	INTERGENIC		
SNP_34531_A_11132768	NC_021164.1	Ca_Kabuli_Chr05	11132768	AA	GG	GG	INTERGENIC		
SNP_34532_A_11132778	NC_021164.1	Ca_Kabuli_Chr05	11132778	CC	TT	TT	INTERGENIC		
SNP_34533_A_11132876	NC_021164.1	Ca_Kabuli_Chr05	11132876	AA	TT	TT	INTERGENIC		
SNP_34534_A_11132945	NC_021164.1	Ca_Kabuli_Chr05	11132945	GG	TT	TT	INTERGENIC		
SNP_34535_A_11167551	NC_021164.1	Ca_Kabuli_Chr05	11167551	TT	AA	AA	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34536_A_11167607	NC_021164.1	Ca_Kabuli_Chr05	11167607	AA	GG	GG	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34537_A_11167756	NC_021164.1	Ca_Kabuli_Chr05	11167756	GG	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34538_A_11167766	NC_021164.1	Ca_Kabuli_Chr05	11167766	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34539_A_11167791	NC_021164.1	Ca_Kabuli_Chr05	11167791	AA	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34540_A_11167841	NC_021164.1	Ca_Kabuli_Chr05	11167841	TT	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34541_A_11167868	NC_021164.1	Ca_Kabuli_Chr05	11167868	GG	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34542_A_11167878	NC_021164.1	Ca_Kabuli_Chr05	11167878	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34543_A_11167883	NC_021164.1	Ca_Kabuli_Chr05	11167883	AA	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34544_A_11167887	NC_021164.1	Ca_Kabuli_Chr05	11167887	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34545_A_11167891	NC_021164.1	Ca_Kabuli_Chr05	11167891	GG	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34546_A_11167892	NC_021164.1	Ca_Kabuli_Chr05	11167892	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34547_A_11167898	NC_021164.1	Ca_Kabuli_Chr05	11167898	AA	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34548_A_11167900	NC_021164.1	Ca_Kabuli_Chr05	11167900	TT	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34549_A_11167944	NC_021164.1	Ca_Kabuli_Chr05	11167944	GG	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34550_A_11167948	NC_021164.1	Ca_Kabuli_Chr05	11167948	CC	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34551_A_11167975	NC_021164.1	Ca_Kabuli_Chr05	11167975	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34552_A_11167977	NC_021164.1	Ca_Kabuli_Chr05	11167977	CC	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34553_A_11167986	NC_021164.1	Ca_Kabuli_Chr05	11167986	TT	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34554_A_11167997	NC_021164.1	Ca_Kabuli_Chr05	11167997	CC	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34555_A_11168012	NC_021164.1	Ca_Kabuli_Chr05	11168012	GG	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34556_A_11168022	NC_021164.1	Ca_Kabuli_Chr05	11168022	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34557_A_11168046	NC_021164.1	Ca_Kabuli_Chr05	11168046	TT	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34558_A_11168052	NC_021164.1	Ca_Kabuli_Chr05	11168052	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34559_A_11168112	NC_021164.1	Ca_Kabuli_Chr05	11168112	CC	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34560_A_11168115	NC_021164.1	Ca_Kabuli_Chr05	11168115	CC	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34561_A_11168142	NC_021164.1	Ca_Kabuli_Chr05	11168142	AA	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34562_A_11168165	NC_021164.1	Ca_Kabuli_Chr05	11168165	GG	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34563_A_11168237	NC_021164.1	Ca_Kabuli_Chr05	11168237	AA	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34564_A_11168238	NC_021164.1	Ca_Kabuli_Chr05	11168238	AA	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34566_A_11168454	NC_021164.1	Ca_Kabuli_Chr05	11168454	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34567_A_11168644	NC_021164.1	Ca_Kabuli_Chr05	11168644	TT	CC	CC	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34568_A_11168669	NC_021164.1	Ca_Kabuli_Chr05	11168669	AA	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34569_A_11168754	NC_021164.1	Ca_Kabuli_Chr05	11168754	AA	GG	GG	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34571_A_11168861	NC_021164.1	Ca_Kabuli_Chr05	11168861	GG	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34572_A_11168864	NC_021164.1	Ca_Kabuli_Chr05	11168864	TT	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34573_A_11168881	NC_021164.1	Ca_Kabuli_Chr05	11168881	CC	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34574_A_11168882	NC_021164.1	Ca_Kabuli_Chr05	11168882	CC	TT	TT	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34576_A_11168986	NC_021164.1	Ca_Kabuli_Chr05	11168986	CC	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34578_A_11169069	NC_021164.1	Ca_Kabuli_Chr05	11169069	GG	AA	AA	INTRON	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34579_A_11169094	NC_021164.1	Ca_Kabuli_Chr05	11169094	GG	TT	TT	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34580_A_11169151	NC_021164.1	Ca_Kabuli_Chr05	11169151	AA	GG	GG	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34581_A_11169198	NC_021164.1	Ca_Kabuli_Chr05	11169198	CC	AA	AA	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34582_A_11169218	NC_021164.1	Ca_Kabuli_Chr05	11169218	TT	CC	CC	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34583_A_11169228	NC_021164.1	Ca_Kabuli_Chr05	11169228	CC	TT	TT	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34584_A_11169234	NC_021164.1	Ca_Kabuli_Chr05	11169234	AA	CC	CC	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34585_A_11169282	NC_021164.1	Ca_Kabuli_Chr05	11169282	GG	AA	AA	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34586_A_11169372	NC_021164.1	Ca_Kabuli_Chr05	11169372	TT	CC	CC	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34587_A_11169396	NC_021164.1	Ca_Kabuli_Chr05	11169396	CC	AA	AA	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34588_A_11169409	NC_021164.1	Ca_Kabuli_Chr05	11169409	AA	GG	GG	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34589_A_11169531	NC_021164.1	Ca_Kabuli_Chr05	11169531	TT	GG	GG	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34591_A_11169550	NC_021164.1	Ca_Kabuli_Chr05	11169550	GG	TT	TT	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34592_A_11169552	NC_021164.1	Ca_Kabuli_Chr05	11169552	AA	GG	GG	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34593_A_11169578	NC_021164.1	Ca_Kabuli_Chr05	11169578	CC	GG	GG	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34594_A_11169588	NC_021164.1	Ca_Kabuli_Chr05	11169588	CC	TT	TT	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34595_A_11169627	NC_021164.1	Ca_Kabuli_Chr05	11169627	AA	CC	CC	SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34596_A_11169638	NC_021164.1	Ca_Kabuli_Chr05	11169638	AA	GG	GG	NON_SYNONYMOUS_CODING	101509622	probable CCR4-associated factor 1 homolog 11
SNP_34597_A_11181865	NC_021164.1	Ca_Kabuli_Chr05	11181865	TT	CC	CC	INTERGENIC		
SNP_34598_A_11181896	NC_021164.1	Ca_Kabuli_Chr05	11181896	GG	CC	CC	INTERGENIC		
SNP_34599_A_11181899	NC_021164.1	Ca_Kabuli_Chr05	11181899	GG	AA	AA	INTERGENIC		
SNP_34600_A_11181963	NC_021164.1	Ca_Kabuli_Chr05	11181963	CC	TT	TT	INTERGENIC		
SNP_34601_A_11181988	NC_021164.1	Ca_Kabuli_Chr05	11181988	TT	CC	CC	INTERGENIC		
SNP_34602_A_11182020	NC_021164.1	Ca_Kabuli_Chr05	11182020	AA	GG	GG	INTERGENIC		
SNP_34603_A_11182140	NC_021164.1	Ca_Kabuli_Chr05	11182140	GG	TT	TT	INTERGENIC		
SNP_34604_A_11182235	NC_021164.1	Ca_Kabuli_Chr05	11182235	CC	AA	AA	INTERGENIC		
SNP_34605_A_11182292	NC_021164.1	Ca_Kabuli_Chr05	11182292	CC	TT	TT	INTERGENIC		
SNP_34606_A_11182506	NC_021164.1	Ca_Kabuli_Chr05	11182506	AA	TT	TT	INTERGENIC		
SNP_34607_A_11182561	NC_021164.1	Ca_Kabuli_Chr05	11182561	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34608_A_11182617	NC_021164.1	Ca_Kabuli_Chr05	11182617	CC	GG	GG	INTERGENIC			
SNP_34609_A_11230713	NC_021164.1	Ca_Kabuli_Chr05	11230713	TT	CC	CC	INTERGENIC			
SNP_34610_A_11230777	NC_021164.1	Ca_Kabuli_Chr05	11230777	CC	TT	TT	INTERGENIC			
SNP_34611_A_11232966	NC_021164.1	Ca_Kabuli_Chr05	11232966	GG	AA	AA	INTERGENIC			
SNP_34612_A_11232984	NC_021164.1	Ca_Kabuli_Chr05	11232984	CC	AA	AA	INTERGENIC			
SNP_34614_A_11233259	NC_021164.1	Ca_Kabuli_Chr05	11233259	CC	TT	TT	INTERGENIC			
SNP_34615_A_11243728	NC_021164.1	Ca_Kabuli_Chr05	11243728	TT	CC	CC	INTERGENIC			
SNP_34616_A_11244028	NC_021164.1	Ca_Kabuli_Chr05	11244028	AA	CC	CC	INTERGENIC			
SNP_34617_A_11244064	NC_021164.1	Ca_Kabuli_Chr05	11244064	GG	TT	TT	INTERGENIC			
SNP_34618_A_11244084	NC_021164.1	Ca_Kabuli_Chr05	11244084	TT	CC	CC	INTERGENIC			
SNP_34619_A_11244182	NC_021164.1	Ca_Kabuli_Chr05	11244182	AA	TT	TT	INTERGENIC			
SNP_34620_A_11244241	NC_021164.1	Ca_Kabuli_Chr05	11244241	TT	GG	GG	INTERGENIC			
SNP_34621_A_11258644	NC_021164.1	Ca_Kabuli_Chr05	11258644	TT	CC	CC	INTERGENIC			
SNP_34622_A_11271174	NC_021164.1	Ca_Kabuli_Chr05	11271174	GG	TT	TT	INTERGENIC			
SNP_34623_A_11291199	NC_021164.1	Ca_Kabuli_Chr05	11291199	TT	AA	AA	URR	101510808	pentatricopeptide repeat-containing protein At4g18975, chloroplastic	
SNP_34624_A_11321238	NC_021164.1	Ca_Kabuli_Chr05	11321238	AA	CC	CC	INTERGENIC			
SNP_34625_A_11321267	NC_021164.1	Ca_Kabuli_Chr05	11321267	TT	GG	GG	INTERGENIC			
SNP_34626_A_11324605	NC_021164.1	Ca_Kabuli_Chr05	11324605	GG	AA	AA	INTERGENIC			
SNP_34628_A_11324668	NC_021164.1	Ca_Kabuli_Chr05	11324668	CC	TT	TT	INTERGENIC			
SNP_34629_A_11346317	NC_021164.1	Ca_Kabuli_Chr05	11346317	TT	GG	GG	INTERGENIC			
SNP_34630_A_11346407	NC_021164.1	Ca_Kabuli_Chr05	11346407	CC	AA	AA	INTERGENIC			
SNP_34631_A_11346428	NC_021164.1	Ca_Kabuli_Chr05	11346428	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34632_A_11346441	NC_021164.1	Ca_Kabuli_Chr05	11346441	TT	CC	CC	INTERGENIC			
SNP_34633_A_11346647	NC_021164.1	Ca_Kabuli_Chr05	11346647	TT	CC	CC	INTERGENIC			
SNP_34634_A_11346677	NC_021164.1	Ca_Kabuli_Chr05	11346677	AA	CC	CC	INTERGENIC			
SNP_34635_A_11346683	NC_021164.1	Ca_Kabuli_Chr05	11346683	TT	CC	CC	INTERGENIC			
SNP_34636_A_11346704	NC_021164.1	Ca_Kabuli_Chr05	11346704	GG	AA	AA	INTERGENIC			
SNP_34637_A_11346760	NC_021164.1	Ca_Kabuli_Chr05	11346760	GG	TT	TT	INTERGENIC			
SNP_34638_A_11346766	NC_021164.1	Ca_Kabuli_Chr05	11346766	AA	GG	GG	INTERGENIC			
SNP_34639_A_11346825	NC_021164.1	Ca_Kabuli_Chr05	11346825	TT	CC	CC	INTERGENIC			
SNP_34640_A_11346864	NC_021164.1	Ca_Kabuli_Chr05	11346864	CC	GG	GG	INTERGENIC			
SNP_34641_A_11346866	NC_021164.1	Ca_Kabuli_Chr05	11346866	TT	CC	CC	INTERGENIC			
SNP_34642_A_11360170	NC_021164.1	Ca_Kabuli_Chr05	11360170	CC	GG	GG	INTERGENIC			
SNP_34643_A_11420751	NC_021164.1	Ca_Kabuli_Chr05	11420751	AA	CC	CC	INTERGENIC			
SNP_34645_A_11427806	NC_021164.1	Ca_Kabuli_Chr05	11427806	AA	GG	GG	INTERGENIC			
SNP_34646_A_11435128	NC_021164.1	Ca_Kabuli_Chr05	11435128	TT	CC	CC	INTERGENIC			
SNP_34647_A_11447965	NC_021164.1	Ca_Kabuli_Chr05	11447965	CC	TT	TT	INTERGENIC			
SNP_34648_A_11476552	NC_021164.1	Ca_Kabuli_Chr05	11476552	GG	AA	AA	URR	101513495	uncharacterized LOC101513495	
SNP_34649_A_11483531	NC_021164.1	Ca_Kabuli_Chr05	11483531	TT	CC	CC	NON_SYNONYMOUS_CODING	101514036	protein NRT1/ PTR FAMILY 5.10-like	
SNP_34651_A_11512157	NC_021164.1	Ca_Kabuli_Chr05	11512157	TT	CC	CC	INTERGENIC			
SNP_34652_A_11512269	NC_021164.1	Ca_Kabuli_Chr05	11512269	GG	AA	AA	INTERGENIC			
SNP_34653_A_11512541	NC_021164.1	Ca_Kabuli_Chr05	11512541	TT	CC	CC	INTERGENIC			
SNP_34654_A_11512560	NC_021164.1	Ca_Kabuli_Chr05	11512560	AA	GG	GG	INTERGENIC			
SNP_34655_A_11512593	NC_021164.1	Ca_Kabuli_Chr05	11512593	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34656_A_11512617	NC_021164.1	Ca_Kabuli_Chr05	11512617	TT	CC	CC	INTERGENIC			
SNP_34657_A_11512686	NC_021164.1	Ca_Kabuli_Chr05	11512686	TT	CC	CC	INTERGENIC			
SNP_34658_A_11512703	NC_021164.1	Ca_Kabuli_Chr05	11512703	TT	GG	GG	INTERGENIC			
SNP_34659_A_11512706	NC_021164.1	Ca_Kabuli_Chr05	11512706	AA	GG	GG	INTERGENIC			
SNP_34660_A_11512715	NC_021164.1	Ca_Kabuli_Chr05	11512715	GG	TT	TT	INTERGENIC			
SNP_34661_A_11512739	NC_021164.1	Ca_Kabuli_Chr05	11512739	TT	AA	AA	INTERGENIC			
SNP_34662_A_11512774	NC_021164.1	Ca_Kabuli_Chr05	11512774	GG	AA	AA	INTERGENIC			
SNP_34663_A_11512801	NC_021164.1	Ca_Kabuli_Chr05	11512801	AA	GG	GG	INTERGENIC			
SNP_34664_A_11512806	NC_021164.1	Ca_Kabuli_Chr05	11512806	CC	TT	TT	INTERGENIC			
SNP_34665_A_11516472	NC_021164.1	Ca_Kabuli_Chr05	11516472	GG	AA	AA	INTERGENIC			
SNP_34666_A_11535406	NC_021164.1	Ca_Kabuli_Chr05	11535406	GG	TT	TT	INTERGENIC			
SNP_34667_A_11535714	NC_021164.1	Ca_Kabuli_Chr05	11535714	GG	AA	AA	INTERGENIC			
SNP_34668_A_11535716	NC_021164.1	Ca_Kabuli_Chr05	11535716	TT	CC	CC	INTERGENIC			
SNP_34669_A_11584531	NC_021164.1	Ca_Kabuli_Chr05	11584531	GG	AA	AA	INTERGENIC			
SNP_34670_A_11584534	NC_021164.1	Ca_Kabuli_Chr05	11584534	CC	TT	TT	INTERGENIC			
SNP_34672_A_11648799	NC_021164.1	Ca_Kabuli_Chr05	11648799	GG	AA	AA	INTERGENIC			
SNP_34673_A_11667517	NC_021164.1	Ca_Kabuli_Chr05	11667517	TT	CC	CC	INTERGENIC			
SNP_34674_A_11667531	NC_021164.1	Ca_Kabuli_Chr05	11667531	AA	GG	GG	INTERGENIC			
SNP_34675_A_11667574	NC_021164.1	Ca_Kabuli_Chr05	11667574	TT	CC	CC	INTERGENIC			
SNP_34676_A_11703777	NC_021164.1	Ca_Kabuli_Chr05	11703777	TT	GG	GG	INTERGENIC			
SNP_34677_A_11703790	NC_021164.1	Ca_Kabuli_Chr05	11703790	AA	GG	GG	INTERGENIC			
SNP_34678_A_11703849	NC_021164.1	Ca_Kabuli_Chr05	11703849	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34679_A_11703852	NC_021164.1	Ca_Kabuli_Chr05	11703852	AA	GG	GG	INTERGENIC			
SNP_34680_A_11703872	NC_021164.1	Ca_Kabuli_Chr05	11703872	AA	GG	GG	INTERGENIC			
SNP_34681_A_11703923	NC_021164.1	Ca_Kabuli_Chr05	11703923	GG	AA	AA	INTERGENIC			
SNP_34682_A_11703947	NC_021164.1	Ca_Kabuli_Chr05	11703947	AA	TT	TT	INTERGENIC			
SNP_34683_A_11703953	NC_021164.1	Ca_Kabuli_Chr05	11703953	GG	TT	TT	INTERGENIC			
SNP_34684_A_11704218	NC_021164.1	Ca_Kabuli_Chr05	11704218	GG	AA	AA	INTERGENIC			
SNP_34685_A_11704287	NC_021164.1	Ca_Kabuli_Chr05	11704287	TT	CC	CC	INTERGENIC			
SNP_34686_A_11704294	NC_021164.1	Ca_Kabuli_Chr05	11704294	CC	TT	TT	INTERGENIC			
SNP_34687_A_11704315	NC_021164.1	Ca_Kabuli_Chr05	11704315	CC	TT	TT	INTERGENIC			
SNP_34688_A_11713305	NC_021164.1	Ca_Kabuli_Chr05	11713305	TT	GG	GG	INTERGENIC			
SNP_34689_A_11722285	NC_021164.1	Ca_Kabuli_Chr05	11722285	TT	AA	AA	INTERGENIC			
SNP_34690_A_11722474	NC_021164.1	Ca_Kabuli_Chr05	11722474	CC	TT	TT	INTERGENIC			
SNP_34691_A_11727515	NC_021164.1	Ca_Kabuli_Chr05	11727515	TT	GG	GG	INTERGENIC			
SNP_34692_A_11727588	NC_021164.1	Ca_Kabuli_Chr05	11727588	AA	GG	GG	INTERGENIC			
SNP_34693_A_11729289	NC_021164.1	Ca_Kabuli_Chr05	11729289	CC	AA	AA	INTERGENIC			
SNP_34694_A_11729551	NC_021164.1	Ca_Kabuli_Chr05	11729551	AA	GG	GG	INTERGENIC			
SNP_34695_A_11729556	NC_021164.1	Ca_Kabuli_Chr05	11729556	AA	TT	TT	INTERGENIC			
SNP_34697_A_11729745	NC_021164.1	Ca_Kabuli_Chr05	11729745	AA	GG	GG	INTERGENIC			
SNP_34698_A_11729839	NC_021164.1	Ca_Kabuli_Chr05	11729839	AA	GG	GG	INTERGENIC			
SNP_34699_A_11730834	NC_021164.1	Ca_Kabuli_Chr05	11730834	CC	AA	AA	INTERGENIC			
SNP_34700_A_11730839	NC_021164.1	Ca_Kabuli_Chr05	11730839	CC	TT	TT	INTERGENIC			
SNP_34701_A_11762982	NC_021164.1	Ca_Kabuli_Chr05	11762982	AA	CC	CC	DRR	101489523	ABC transporter C family member 12-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34702_A_11823098	NC_021164.1	Ca_Kabuli_Chr05	11823098	GG	AA	AA	URR	101489523	ABC transporter C family member 12-like
SNP_34703_A_11829850	NC_021164.1	Ca_Kabuli_Chr05	11829850	TT	CC	CC	INTERGENIC		
SNP_34704_A_11830140	NC_021164.1	Ca_Kabuli_Chr05	11830140	CC	AA	AA	INTERGENIC		
SNP_34705_A_11830155	NC_021164.1	Ca_Kabuli_Chr05	11830155	TT	CC	CC	INTERGENIC		
SNP_34708_A_11879333	NC_021164.1	Ca_Kabuli_Chr05	11879333	TT	CC	CC	INTERGENIC		
SNP_34711_A_11896232	NC_021164.1	Ca_Kabuli_Chr05	11896232	AA	GG	GG	NON_SYNONYMOUS_CODING	101503402	uncharacterized LOC101503402
SNP_34712_A_11900472	NC_021164.1	Ca_Kabuli_Chr05	11900472	TT	CC	CC	INTERGENIC		
SNP_34713_A_11913352	NC_021164.1	Ca_Kabuli_Chr05	11913352	TT	CC	CC	INTERGENIC		
SNP_34714_A_11913362	NC_021164.1	Ca_Kabuli_Chr05	11913362	TT	GG	GG	INTERGENIC		
SNP_34715_A_11913390	NC_021164.1	Ca_Kabuli_Chr05	11913390	AA	GG	GG	INTERGENIC		
SNP_34716_A_11913391	NC_021164.1	Ca_Kabuli_Chr05	11913391	GG	CC	CC	INTERGENIC		
SNP_34717_A_11913408	NC_021164.1	Ca_Kabuli_Chr05	11913408	CC	TT	TT	INTERGENIC		
SNP_34718_A_11927562	NC_021164.1	Ca_Kabuli_Chr05	11927562	CC	TT	TT	INTERGENIC		
SNP_34719_A_11927570	NC_021164.1	Ca_Kabuli_Chr05	11927570	TT	CC	CC	INTERGENIC		
SNP_34721_A_12010232	NC_021164.1	Ca_Kabuli_Chr05	12010232	AA	TT	TT	INTERGENIC		
SNP_34722_A_12010468	NC_021164.1	Ca_Kabuli_Chr05	12010468	AA	GG	GG	INTERGENIC		
SNP_34723_A_12010580	NC_021164.1	Ca_Kabuli_Chr05	12010580	CC	TT	TT	INTERGENIC		
SNP_34726_A_12079099	NC_021164.1	Ca_Kabuli_Chr05	12079099	GG	AA	AA	INTERGENIC		
SNP_34727_A_12091099	NC_021164.1	Ca_Kabuli_Chr05	12091099	AA	GG	GG	INTERGENIC		
SNP_34728_A_12091100	NC_021164.1	Ca_Kabuli_Chr05	12091100	CC	TT	TT	INTERGENIC		
SNP_34729_A_12091153	NC_021164.1	Ca_Kabuli_Chr05	12091153	GG	AA	AA	INTERGENIC		
SNP_34730_A_12091332	NC_021164.1	Ca_Kabuli_Chr05	12091332	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34731_A_12093404	NC_021164.1	Ca_Kabuli_Chr05	12093404	TT	CC	CC	INTERGENIC		
SNP_34732_A_12093637	NC_021164.1	Ca_Kabuli_Chr05	12093637	TT	CC	CC	INTERGENIC		
SNP_34733_A_12093639	NC_021164.1	Ca_Kabuli_Chr05	12093639	GG	AA	AA	INTERGENIC		
SNP_34734_A_12093643	NC_021164.1	Ca_Kabuli_Chr05	12093643	TT	GG	GG	INTERGENIC		
SNP_34735_A_12093649	NC_021164.1	Ca_Kabuli_Chr05	12093649	AA	CC	GG	INTERGENIC		
SNP_34736_A_12093706	NC_021164.1	Ca_Kabuli_Chr05	12093706	TT	CC	CC	INTERGENIC		
SNP_34737_A_12093747	NC_021164.1	Ca_Kabuli_Chr05	12093747	GG	AA	AA	INTERGENIC		
SNP_34738_A_12093764	NC_021164.1	Ca_Kabuli_Chr05	12093764	GG	TT	TT	INTERGENIC		
SNP_34739_A_12093793	NC_021164.1	Ca_Kabuli_Chr05	12093793	TT	CC	CC	INTERGENIC		
SNP_34740_A_12095764	NC_021164.1	Ca_Kabuli_Chr05	12095764	CC	TT	TT	INTERGENIC		
SNP_34741_A_12095768	NC_021164.1	Ca_Kabuli_Chr05	12095768	AA	GG	GG	INTERGENIC		
SNP_34742_A_12095769	NC_021164.1	Ca_Kabuli_Chr05	12095769	TT	CC	CC	INTERGENIC		
SNP_34743_A_12096238	NC_021164.1	Ca_Kabuli_Chr05	12096238	AA	GG	GG	INTERGENIC		
SNP_34744_A_12101420	NC_021164.1	Ca_Kabuli_Chr05	12101420	AA	GG	GG	URR	101505030	uncharacterized LOC101505030
SNP_34746_A_12146898	NC_021164.1	Ca_Kabuli_Chr05	12146898	AA	GG	GG	INTERGENIC		
SNP_34747_A_12157014	NC_021164.1	Ca_Kabuli_Chr05	12157014	GG	AA	AA	INTERGENIC		
SNP_34748_A_12161660	NC_021164.1	Ca_Kabuli_Chr05	12161660	CC	TT	TT	INTERGENIC		
SNP_34749_A_12161802	NC_021164.1	Ca_Kabuli_Chr05	12161802	GG	AA	AA	INTERGENIC		
SNP_34750_A_12161871	NC_021164.1	Ca_Kabuli_Chr05	12161871	AA	GG	GG	INTERGENIC		
SNP_34751_A_12161933	NC_021164.1	Ca_Kabuli_Chr05	12161933	CC	GG	GG	INTERGENIC		
SNP_34752_A_12165921	NC_021164.1	Ca_Kabuli_Chr05	12165921	AA	CC	CC	URR	101494380	uncharacterized LOC101494380
SNP_34753_A_12165922	NC_021164.1	Ca_Kabuli_Chr05	12165922	GG	AA	AA	URR	101494380	uncharacterized LOC101494380

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34754_A_12272966	NC_021164.1	Ca_Kabuli_Chr05	12272966	TT	AA	AA	INTERGENIC		
SNP_34755_A_12273385	NC_021164.1	Ca_Kabuli_Chr05	12273385	AA	CC	CC	INTERGENIC		
SNP_34756_A_12273390	NC_021164.1	Ca_Kabuli_Chr05	12273390	CC	TT	TT	INTERGENIC		
SNP_34757_A_12273410	NC_021164.1	Ca_Kabuli_Chr05	12273410	TT	GG	GG	INTERGENIC		
SNP_34758_A_12302273	NC_021164.1	Ca_Kabuli_Chr05	12302273	TT	CC	CC	INTERGENIC		
SNP_34759_A_12343114	NC_021164.1	Ca_Kabuli_Chr05	12343114	TT	CC	CC	INTERGENIC		
SNP_34760_A_12360829	NC_021164.1	Ca_Kabuli_Chr05	12360829	GG	AA	AA	INTERGENIC		
SNP_34762_A_12532763	NC_021164.1	Ca_Kabuli_Chr05	12532763	AA	CC	CC	INTRON	101509844	Unknown function
SNP_34763_A_12532785	NC_021164.1	Ca_Kabuli_Chr05	12532785	AA	CC	CC	INTRON	101509844	Unknown function
SNP_34764_A_12535216	NC_021164.1	Ca_Kabuli_Chr05	12535216	AA	GG	GG	INTERGENIC		
SNP_34765_A_12561356	NC_021164.1	Ca_Kabuli_Chr05	12561356	TT	CC	CC	INTERGENIC		
SNP_34766_A_12588306	NC_021164.1	Ca_Kabuli_Chr05	12588306	GG	AA	AA	STOP_GAINED	101500543	glycerophosphodiester phosphodiesterase GDPDL3-like
SNP_34767_A_12588682	NC_021164.1	Ca_Kabuli_Chr05	12588682	AA	CC	CC	INTRON	101500543	glycerophosphodiester phosphodiesterase GDPDL3-like
SNP_34768_A_12590676	NC_021164.1	Ca_Kabuli_Chr05	12590676	CC	GG	GG	NON_SYNONYMOUS_CODING	101500543	glycerophosphodiester phosphodiesterase GDPDL3-like
SNP_34769_A_12591170	NC_021164.1	Ca_Kabuli_Chr05	12591170	CC	GG	GG	DRR	101500543	glycerophosphodiester phosphodiesterase GDPDL3-like
SNP_34770_A_12606302	NC_021164.1	Ca_Kabuli_Chr05	12606302	TT	CC	CC	NON_SYNONYMOUS_CODING	101500858	bifunctional protein FoID 2-like
SNP_34771_A_12606303	NC_021164.1	Ca_Kabuli_Chr05	12606303	CC	AA	AA	STOP_GAINED	101500858	bifunctional protein FoID 2-like
SNP_34773_A_12628453	NC_021164.1	Ca_Kabuli_Chr05	12628453	CC	TT	TT	DRR	101510809	receptor-like protein kinase FERONIA
SNP_34775_A_12634177	NC_021164.1	Ca_Kabuli_Chr05	12634177	GG	TT	TT	URR	101510809	receptor-like protein kinase FERONIA
SNP_34776_A_12658868	NC_021164.1	Ca_Kabuli_Chr05	12658868	AA	TT	TT	URR	101511439	receptor-like protein kinase FERONIA
SNP_34777_A_12658882	NC_021164.1	Ca_Kabuli_Chr05	12658882	CC	TT	TT	URR	101511439	receptor-like protein kinase FERONIA
SNP_34778_A_12659040	NC_021164.1	Ca_Kabuli_Chr05	12659040	GG	AA	AA	URR	101511439	receptor-like protein kinase FERONIA

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34779_A_12659142	NC_021164.1	Ca_Kabuli_Chr05	12659142	TT	GG	GG	URR	101511439	receptor-like protein kinase FERONIA
SNP_34780_A_12659210	NC_021164.1	Ca_Kabuli_Chr05	12659210	TT	CC	CC	URR	101511439	receptor-like protein kinase FERONIA
SNP_34781_A_12659218	NC_021164.1	Ca_Kabuli_Chr05	12659218	CC	AA	AA	URR	101511439	receptor-like protein kinase FERONIA
SNP_34782_A_12672401	NC_021164.1	Ca_Kabuli_Chr05	12672401	AA	TT	TT	INTERGENIC		
SNP_34783_A_12672873	NC_021164.1	Ca_Kabuli_Chr05	12672873	GG	AA	AA	INTERGENIC		
SNP_34784_A_12672886	NC_021164.1	Ca_Kabuli_Chr05	12672886	CC	TT	TT	INTERGENIC		
SNP_34785_A_12673242	NC_021164.1	Ca_Kabuli_Chr05	12673242	TT	CC	CC	INTERGENIC		
SNP_34786_A_12673256	NC_021164.1	Ca_Kabuli_Chr05	12673256	AA	GG	GG	INTERGENIC		
SNP_34787_A_12673284	NC_021164.1	Ca_Kabuli_Chr05	12673284	CC	TT	TT	INTERGENIC		
SNP_34788_A_12673305	NC_021164.1	Ca_Kabuli_Chr05	12673305	AA	CC	CC	INTERGENIC		
SNP_34789_A_13581723	NC_021164.1	Ca_Kabuli_Chr05	13581723	TT	CC	CC	INTERGENIC		
SNP_34790_A_13581784	NC_021164.1	Ca_Kabuli_Chr05	13581784	TT	AA	AA	INTERGENIC		
SNP_34791_A_13610999	NC_021164.1	Ca_Kabuli_Chr05	13610999	AA	GG	GG	INTERGENIC		
SNP_34792_A_13611853	NC_021164.1	Ca_Kabuli_Chr05	13611853	AA	TT	TT	INTERGENIC		
SNP_34793_A_13611905	NC_021164.1	Ca_Kabuli_Chr05	13611905	GG	AA	AA	INTERGENIC		
SNP_34794_A_13612084	NC_021164.1	Ca_Kabuli_Chr05	13612084	CC	GG	GG	INTERGENIC		
SNP_34795_A_13612107	NC_021164.1	Ca_Kabuli_Chr05	13612107	CC	TT	TT	INTERGENIC		
SNP_34796_A_13612188	NC_021164.1	Ca_Kabuli_Chr05	13612188	TT	CC	CC	INTERGENIC		
SNP_34797_A_13612192	NC_021164.1	Ca_Kabuli_Chr05	13612192	GG	AA	AA	INTERGENIC		
SNP_34798_A_13612196	NC_021164.1	Ca_Kabuli_Chr05	13612196	GG	AA	AA	INTERGENIC		
SNP_34799_A_13612212	NC_021164.1	Ca_Kabuli_Chr05	13612212	TT	CC	CC	INTERGENIC		
SNP_34800_A_13612221	NC_021164.1	Ca_Kabuli_Chr05	13612221	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34801_A_13620679	NC_021164.1	Ca_Kabuli_Chr05	13620679	AA	CC	CC	INTERGENIC			
SNP_34802_A_13623833	NC_021164.1	Ca_Kabuli_Chr05	13623833	GG	AA	AA	INTERGENIC			
SNP_34803_A_13623877	NC_021164.1	Ca_Kabuli_Chr05	13623877	AA	GG	GG	INTERGENIC			
SNP_34804_A_13623898	NC_021164.1	Ca_Kabuli_Chr05	13623898	TT	GG	GG	INTERGENIC			
SNP_34805_A_13623978	NC_021164.1	Ca_Kabuli_Chr05	13623978	GG	AA	AA	INTERGENIC			
SNP_34806_A_13623983	NC_021164.1	Ca_Kabuli_Chr05	13623983	GG	AA	AA	INTERGENIC			
SNP_34807_A_13623989	NC_021164.1	Ca_Kabuli_Chr05	13623989	GG	CC	CC	INTERGENIC			
SNP_34808_A_13624047	NC_021164.1	Ca_Kabuli_Chr05	13624047	AA	GG	GG	INTERGENIC			
SNP_34809_A_13624077	NC_021164.1	Ca_Kabuli_Chr05	13624077	GG	AA	AA	INTERGENIC			
SNP_34810_A_13624275	NC_021164.1	Ca_Kabuli_Chr05	13624275	TT	CC	CC	INTERGENIC			
SNP_34811_A_13624305	NC_021164.1	Ca_Kabuli_Chr05	13624305	TT	CC	CC	INTERGENIC			
SNP_34812_A_13624307	NC_021164.1	Ca_Kabuli_Chr05	13624307	TT	AA	AA	INTERGENIC			
SNP_34813_A_13624388	NC_021164.1	Ca_Kabuli_Chr05	13624388	AA	GG	GG	INTERGENIC			
SNP_34814_A_13628491	NC_021164.1	Ca_Kabuli_Chr05	13628491	TT	GG	GG	INTERGENIC			
SNP_34815_A_13628512	NC_021164.1	Ca_Kabuli_Chr05	13628512	GG	TT	TT	INTERGENIC			
SNP_34816_A_13628536	NC_021164.1	Ca_Kabuli_Chr05	13628536	GG	TT	TT	INTERGENIC			
SNP_34817_A_13628593	NC_021164.1	Ca_Kabuli_Chr05	13628593	TT	GG	GG	INTERGENIC			
SNP_34818_A_13628598	NC_021164.1	Ca_Kabuli_Chr05	13628598	TT	CC	CC	INTERGENIC			
SNP_34819_A_13628660	NC_021164.1	Ca_Kabuli_Chr05	13628660	AA	CC	CC	INTERGENIC			
SNP_34820_A_13628697	NC_021164.1	Ca_Kabuli_Chr05	13628697	TT	CC	CC	INTERGENIC			
SNP_34821_A_13628746	NC_021164.1	Ca_Kabuli_Chr05	13628746	CC	AA	AA	INTERGENIC			
SNP_34822_A_13628773	NC_021164.1	Ca_Kabuli_Chr05	13628773	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34823_A_13628789	NC_021164.1	Ca_Kabuli_Chr05	13628789	TT	GG	GG	INTERGENIC			
SNP_34824_A_13629051	NC_021164.1	Ca_Kabuli_Chr05	13629051	CC	GG	GG	INTERGENIC			
SNP_34825_A_13629066	NC_021164.1	Ca_Kabuli_Chr05	13629066	TT	AA	AA	INTERGENIC			
SNP_34826_A_13629100	NC_021164.1	Ca_Kabuli_Chr05	13629100	TT	AA	AA	INTERGENIC			
SNP_34828_A_13636558	NC_021164.1	Ca_Kabuli_Chr05	13636558	AA	CC	CC	INTERGENIC			
SNP_34829_A_13636663	NC_021164.1	Ca_Kabuli_Chr05	13636663	TT	CC	CC	INTERGENIC			
SNP_34830_A_13636815	NC_021164.1	Ca_Kabuli_Chr05	13636815	TT	CC	CC	INTERGENIC			
SNP_34831_A_13636852	NC_021164.1	Ca_Kabuli_Chr05	13636852	AA	TT	TT	INTERGENIC			
SNP_34832_A_13636910	NC_021164.1	Ca_Kabuli_Chr05	13636910	CC	GG	GG	INTERGENIC			
SNP_34834_A_13637142	NC_021164.1	Ca_Kabuli_Chr05	13637142	AA	GG	GG	INTERGENIC			
SNP_34835_A_13637167	NC_021164.1	Ca_Kabuli_Chr05	13637167	AA	GG	GG	INTERGENIC			
SNP_34836_A_13650792	NC_021164.1	Ca_Kabuli_Chr05	13650792	CC	GG	GG	INTERGENIC			
SNP_34837_A_13651001	NC_021164.1	Ca_Kabuli_Chr05	13651001	CC	AA	AA	INTERGENIC			
SNP_34838_A_13651287	NC_021164.1	Ca_Kabuli_Chr05	13651287	GG	AA	AA	INTERGENIC			
SNP_34839_A_13651299	NC_021164.1	Ca_Kabuli_Chr05	13651299	AA	GG	GG	INTERGENIC			
SNP_34840_A_13695831	NC_021164.1	Ca_Kabuli_Chr05	13695831	GG	AA	AA	INTERGENIC			
SNP_34841_A_13712581	NC_021164.1	Ca_Kabuli_Chr05	13712581	CC	TT	TT	INTERGENIC			
SNP_34843_A_13737116	NC_021164.1	Ca_Kabuli_Chr05	13737116	CC	TT	TT	INTERGENIC			
SNP_34844_A_13811722	NC_021164.1	Ca_Kabuli_Chr05	13811722	TT	GG	GG	INTRON	id99707	Unknown function	
SNP_34846_A_13821961	NC_021164.1	Ca_Kabuli_Chr05	13821961	AA	GG	GG	INTERGENIC			
SNP_34847_A_13821979	NC_021164.1	Ca_Kabuli_Chr05	13821979	AA	TT	TT	INTERGENIC			
SNP_34848_A_13822002	NC_021164.1	Ca_Kabuli_Chr05	13822002	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34849_A_13822003	NC_021164.1	Ca_Kabuli_Chr05	13822003	GG	CC	CC	INTERGENIC		
SNP_34850_A_13822022	NC_021164.1	Ca_Kabuli_Chr05	13822022	TT	GG	GG	INTERGENIC		
SNP_34851_A_13823669	NC_021164.1	Ca_Kabuli_Chr05	13823669	TT	AA	AA	INTERGENIC		
SNP_34852_A_13823670	NC_021164.1	Ca_Kabuli_Chr05	13823670	TT	AA	AA	INTERGENIC		
SNP_34854_A_13834304	NC_021164.1	Ca_Kabuli_Chr05	13834304	CC	AA	AA	DRR	101513386	uncharacterized LOC101513386
SNP_34855_A_13834404	NC_021164.1	Ca_Kabuli_Chr05	13834404	CC	TT	TT	DRR	101513386	uncharacterized LOC101513386
SNP_34856_A_13837457	NC_021164.1	Ca_Kabuli_Chr05	13837457	TT	CC	CC	URR	101513386	uncharacterized LOC101513386
SNP_34857_A_13850015	NC_021164.1	Ca_Kabuli_Chr05	13850015	AA	GG	GG	INTERGENIC		
SNP_34858_A_13854216	NC_021164.1	Ca_Kabuli_Chr05	13854216	CC	TT	TT	INTERGENIC		
SNP_34859_A_13854362	NC_021164.1	Ca_Kabuli_Chr05	13854362	TT	CC	CC	INTERGENIC		
SNP_34860_A_13854614	NC_021164.1	Ca_Kabuli_Chr05	13854614	AA	GG	GG	INTERGENIC		
SNP_34861_A_13854627	NC_021164.1	Ca_Kabuli_Chr05	13854627	AA	GG	GG	INTERGENIC		
SNP_34862_A_13854631	NC_021164.1	Ca_Kabuli_Chr05	13854631	GG	AA	AA	INTERGENIC		
SNP_34863_A_13854652	NC_021164.1	Ca_Kabuli_Chr05	13854652	GG	AA	AA	INTERGENIC		
SNP_34864_A_13854655	NC_021164.1	Ca_Kabuli_Chr05	13854655	TT	CC	CC	INTERGENIC		
SNP_34865_A_13854663	NC_021164.1	Ca_Kabuli_Chr05	13854663	TT	GG	GG	INTERGENIC		
SNP_34866_A_13854677	NC_021164.1	Ca_Kabuli_Chr05	13854677	CC	TT	TT	INTERGENIC		
SNP_34867_A_13854694	NC_021164.1	Ca_Kabuli_Chr05	13854694	CC	AA	AA	INTERGENIC		
SNP_34868_A_13854730	NC_021164.1	Ca_Kabuli_Chr05	13854730	GG	AA	AA	INTERGENIC		
SNP_34869_A_13854739	NC_021164.1	Ca_Kabuli_Chr05	13854739	TT	CC	CC	INTERGENIC		
SNP_34870_A_13854751	NC_021164.1	Ca_Kabuli_Chr05	13854751	CC	AA	AA	INTERGENIC		
SNP_34871_A_13854757	NC_021164.1	Ca_Kabuli_Chr05	13854757	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34872_A_13854775	NC_021164.1	Ca_Kabuli_Chr05	13854775	TT	AA	AA	INTERGENIC			
SNP_34873_A_13855449	NC_021164.1	Ca_Kabuli_Chr05	13855449	CC	AA	AA	INTERGENIC			
SNP_34874_A_13855459	NC_021164.1	Ca_Kabuli_Chr05	13855459	GG	AA	AA	INTERGENIC			
SNP_34875_A_13855484	NC_021164.1	Ca_Kabuli_Chr05	13855484	AA	GG	GG	INTERGENIC			
SNP_34876_A_13855569	NC_021164.1	Ca_Kabuli_Chr05	13855569	TT	AA	AA	INTERGENIC			
SNP_34877_A_13855650	NC_021164.1	Ca_Kabuli_Chr05	13855650	TT	CC	CC	INTERGENIC			
SNP_34879_A_13855736	NC_021164.1	Ca_Kabuli_Chr05	13855736	AA	TT	TT	INTERGENIC			
SNP_34880_A_13855777	NC_021164.1	Ca_Kabuli_Chr05	13855777	TT	CC	CC	INTERGENIC			
SNP_34881_A_13855841	NC_021164.1	Ca_Kabuli_Chr05	13855841	GG	AA	AA	INTERGENIC			
SNP_34882_A_13855892	NC_021164.1	Ca_Kabuli_Chr05	13855892	TT	CC	CC	INTERGENIC			
SNP_34883_A_13856002	NC_021164.1	Ca_Kabuli_Chr05	13856002	GG	TT	TT	INTERGENIC			
SNP_34884_A_13856038	NC_021164.1	Ca_Kabuli_Chr05	13856038	TT	GG	GG	INTERGENIC			
SNP_34885_A_13856113	NC_021164.1	Ca_Kabuli_Chr05	13856113	AA	GG	GG	INTERGENIC			
SNP_34886_A_13856307	NC_021164.1	Ca_Kabuli_Chr05	13856307	TT	CC	CC	INTERGENIC			
SNP_34887_A_13858135	NC_021164.1	Ca_Kabuli_Chr05	13858135	TT	CC	CC	INTERGENIC			
SNP_34888_A_13858149	NC_021164.1	Ca_Kabuli_Chr05	13858149	GG	AA	AA	INTERGENIC			
SNP_34889_A_13858475	NC_021164.1	Ca_Kabuli_Chr05	13858475	GG	AA	AA	INTERGENIC			
SNP_34890_A_13858924	NC_021164.1	Ca_Kabuli_Chr05	13858924	AA	CC	CC	INTERGENIC			
SNP_34892_A_13877854	NC_021164.1	Ca_Kabuli_Chr05	13877854	GG	AA	AA	INTERGENIC			
SNP_34893_A_13892549	NC_021164.1	Ca_Kabuli_Chr05	13892549	CC	TT	TT	INTERGENIC			
SNP_34894_A_13892575	NC_021164.1	Ca_Kabuli_Chr05	13892575	AA	GG	GG	INTERGENIC			
SNP_34895_A_13892590	NC_021164.1	Ca_Kabuli_Chr05	13892590	AA	GG	GG	INTERGENIC			

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SNP_34896_A_13892637	NC_021164.1	Ca_Kabuli_Chr05	13892637	TT	CC	CC	INTERGENIC		
SNP_34897_A_13892648	NC_021164.1	Ca_Kabuli_Chr05	13892648	GG	TT	TT	INTERGENIC		
SNP_34898_A_13892670	NC_021164.1	Ca_Kabuli_Chr05	13892670	CC	TT	TT	INTERGENIC		
SNP_34899_A_13892679	NC_021164.1	Ca_Kabuli_Chr05	13892679	CC	TT	TT	INTERGENIC		
SNP_34900_A_13892699	NC_021164.1	Ca_Kabuli_Chr05	13892699	AA	GG	GG	INTERGENIC		
SNP_34901_A_13892711	NC_021164.1	Ca_Kabuli_Chr05	13892711	AA	GG	GG	INTERGENIC		
SNP_34902_A_13892799	NC_021164.1	Ca_Kabuli_Chr05	13892799	CC	TT	TT	INTERGENIC		
SNP_34903_A_13892969	NC_021164.1	Ca_Kabuli_Chr05	13892969	CC	TT	TT	INTERGENIC		
SNP_34904_A_13893013	NC_021164.1	Ca_Kabuli_Chr05	13893013	TT	CC	CC	INTERGENIC		
SNP_34905_A_13893036	NC_021164.1	Ca_Kabuli_Chr05	13893036	TT	CC	CC	INTERGENIC		
SNP_34906_A_13893112	NC_021164.1	Ca_Kabuli_Chr05	13893112	GG	AA	AA	INTERGENIC		
SNP_34907_A_13893148	NC_021164.1	Ca_Kabuli_Chr05	13893148	TT	GG	GG	INTERGENIC		
SNP_34908_A_13893161	NC_021164.1	Ca_Kabuli_Chr05	13893161	AA	CC	CC	INTERGENIC		
SNP_34909_A_13893173	NC_021164.1	Ca_Kabuli_Chr05	13893173	TT	CC	CC	INTERGENIC		
SNP_34910_A_13936232	NC_021164.1	Ca_Kabuli_Chr05	13936232	AA	CC	CC	INTERGENIC		
SNP_34911_A_13936250	NC_021164.1	Ca_Kabuli_Chr05	13936250	AA	GG	GG	INTERGENIC		
SNP_34912_A_13936923	NC_021164.1	Ca_Kabuli_Chr05	13936923	GG	AA	AA	INTERGENIC		
SNP_34913_A_13939251	NC_021164.1	Ca_Kabuli_Chr05	13939251	GG	CC	CC	INTERGENIC		
SNP_34914_A_13939270	NC_021164.1	Ca_Kabuli_Chr05	13939270	AA	GG	GG	INTERGENIC		
SNP_34915_A_13939286	NC_021164.1	Ca_Kabuli_Chr05	13939286	CC	TT	TT	INTERGENIC		
SNP_34916_A_13939465	NC_021164.1	Ca_Kabuli_Chr05	13939465	AA	CC	CC	INTERGENIC		
SNP_34917_A_13971986	NC_021164.1	Ca_Kabuli_Chr05	13971986	CC	AA	AA	INTRON	101513699	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34918_A_13972029	NC_021164.1	Ca_Kabuli_Chr05	13972029	TT	CC	CC	INTRON	101513699	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-1
SNP_34919_A_13972686	NC_021164.1	Ca_Kabuli_Chr05	13972686	AA	GG	GG	INTRON	101513699	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-1
SNP_34920_A_13980494	NC_021164.1	Ca_Kabuli_Chr05	13980494	GG	AA	AA	INTRON	101513699	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-1
SNP_34921_A_14004922	NC_021164.1	Ca_Kabuli_Chr05	14004922	CC	TT	TT	INTERGENIC		
SNP_34922_A_14018190	NC_021164.1	Ca_Kabuli_Chr05	14018190	AA	GG	GG	INTERGENIC		
SNP_34923_A_14018512	NC_021164.1	Ca_Kabuli_Chr05	14018512	TT	CC	CC	INTERGENIC		
SNP_34924_A_14020378	NC_021164.1	Ca_Kabuli_Chr05	14020378	AA	GG	GG	INTERGENIC		
SNP_34926_A_14022512	NC_021164.1	Ca_Kabuli_Chr05	14022512	AA	TT	TT	INTERGENIC		
SNP_34927_A_14022577	NC_021164.1	Ca_Kabuli_Chr05	14022577	TT	CC	CC	INTERGENIC		
SNP_34928_A_14022688	NC_021164.1	Ca_Kabuli_Chr05	14022688	GG	AA	AA	INTERGENIC		
SNP_34929_A_14022690	NC_021164.1	Ca_Kabuli_Chr05	14022690	TT	CC	CC	INTERGENIC		
SNP_34930_A_14022846	NC_021164.1	Ca_Kabuli_Chr05	14022846	AA	GG	GG	INTERGENIC		
SNP_34931_A_14022857	NC_021164.1	Ca_Kabuli_Chr05	14022857	GG	CC	CC	INTERGENIC		
SNP_34932_A_14022863	NC_021164.1	Ca_Kabuli_Chr05	14022863	AA	GG	GG	INTERGENIC		
SNP_34933_A_14022888	NC_021164.1	Ca_Kabuli_Chr05	14022888	TT	CC	CC	INTERGENIC		
SNP_34934_A_14022906	NC_021164.1	Ca_Kabuli_Chr05	14022906	AA	GG	GG	INTERGENIC		
SNP_34935_A_14031286	NC_021164.1	Ca_Kabuli_Chr05	14031286	AA	TT	TT	INTERGENIC		
SNP_34936_A_14058218	NC_021164.1	Ca_Kabuli_Chr05	14058218	AA	GG	GG	INTERGENIC		
SNP_34937_A_14058224	NC_021164.1	Ca_Kabuli_Chr05	14058224	CC	TT	TT	INTERGENIC		
SNP_34938_A_14058233	NC_021164.1	Ca_Kabuli_Chr05	14058233	CC	TT	TT	INTERGENIC		
SNP_34939_A_14058275	NC_021164.1	Ca_Kabuli_Chr05	14058275	TT	AA	AA	INTERGENIC		
SNP_34940_A_14058299	NC_021164.1	Ca_Kabuli_Chr05	14058299	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34941_A_14058315	NC_021164.1	Ca_Kabuli_Chr05	14058315	CC	TT	TT	INTERGENIC			
SNP_34942_A_14058329	NC_021164.1	Ca_Kabuli_Chr05	14058329	GG	AA	AA	INTERGENIC			
SNP_34943_A_14058360	NC_021164.1	Ca_Kabuli_Chr05	14058360	GG	AA	AA	INTERGENIC			
SNP_34944_A_14058363	NC_021164.1	Ca_Kabuli_Chr05	14058363	TT	CC	CC	INTERGENIC			
SNP_34945_A_14058380	NC_021164.1	Ca_Kabuli_Chr05	14058380	TT	AA	AA	INTERGENIC			
SNP_34946_A_14058384	NC_021164.1	Ca_Kabuli_Chr05	14058384	CC	AA	AA	INTERGENIC			
SNP_34947_A_14058395	NC_021164.1	Ca_Kabuli_Chr05	14058395	TT	CC	CC	INTERGENIC			
SNP_34948_A_14058398	NC_021164.1	Ca_Kabuli_Chr05	14058398	CC	TT	TT	INTERGENIC			
SNP_34949_A_14058633	NC_021164.1	Ca_Kabuli_Chr05	14058633	AA	GG	GG	INTERGENIC			
SNP_34950_A_14059159	NC_021164.1	Ca_Kabuli_Chr05	14059159	TT	GG	GG	INTERGENIC			
SNP_34952_A_14115827	NC_021164.1	Ca_Kabuli_Chr05	14115827	TT	AA	AA	DRR	101495668	Unknown function	
SNP_34953_A_14115845	NC_021164.1	Ca_Kabuli_Chr05	14115845	AA	GG	GG	DRR	101495668	Unknown function	
SNP_34955_A_14194808	NC_021164.1	Ca_Kabuli_Chr05	14194808	AA	GG	GG	INTERGENIC			
SNP_34956_A_14229363	NC_021164.1	Ca_Kabuli_Chr05	14229363	GG	TT	TT	INTERGENIC			
SNP_34957_A_14229379	NC_021164.1	Ca_Kabuli_Chr05	14229379	CC	TT	TT	INTERGENIC			
SNP_34958_A_14272964	NC_021164.1	Ca_Kabuli_Chr05	14272964	GG	AA	AA	INTERGENIC			
SNP_34959_A_14273342	NC_021164.1	Ca_Kabuli_Chr05	14273342	CC	TT	TT	INTERGENIC			
SNP_34960_A_14273343	NC_021164.1	Ca_Kabuli_Chr05	14273343	AA	GG	GG	INTERGENIC			
SNP_34961_A_14273411	NC_021164.1	Ca_Kabuli_Chr05	14273411	TT	CC	CC	INTERGENIC			
SNP_34964_A_14336764	NC_021164.1	Ca_Kabuli_Chr05	14336764	TT	AA	AA	INTERGENIC			
SNP_34965_A_14339530	NC_021164.1	Ca_Kabuli_Chr05	14339530	AA	GG	GG	INTERGENIC			
SNP_34966_A_14339533	NC_021164.1	Ca_Kabuli_Chr05	14339533	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_34967_A_14371475	NC_021164.1	Ca_Kabuli_Chr05	14371475	CC	TT	TT	INTERGENIC			
SNP_34968_A_14394741	NC_021164.1	Ca_Kabuli_Chr05	14394741	CC	TT	TT	INTERGENIC			
SNP_34969_A_14394802	NC_021164.1	Ca_Kabuli_Chr05	14394802	CC	GG	GG	INTERGENIC			
SNP_34971_A_14395026	NC_021164.1	Ca_Kabuli_Chr05	14395026	TT	CC	CC	INTERGENIC			
SNP_34972_A_14395028	NC_021164.1	Ca_Kabuli_Chr05	14395028	TT	CC	CC	INTERGENIC			
SNP_34973_A_14395043	NC_021164.1	Ca_Kabuli_Chr05	14395043	AA	CC	CC	INTERGENIC			
SNP_34974_A_14395108	NC_021164.1	Ca_Kabuli_Chr05	14395108	AA	CC	CC	INTERGENIC			
SNP_34975_A_14395132	NC_021164.1	Ca_Kabuli_Chr05	14395132	TT	CC	CC	INTERGENIC			
SNP_34976_A_14395139	NC_021164.1	Ca_Kabuli_Chr05	14395139	TT	CC	CC	INTERGENIC			
SNP_34977_A_14395272	NC_021164.1	Ca_Kabuli_Chr05	14395272	TT	CC	CC	INTERGENIC			
SNP_34978_A_14395286	NC_021164.1	Ca_Kabuli_Chr05	14395286	CC	TT	TT	INTERGENIC			
SNP_34979_A_14395299	NC_021164.1	Ca_Kabuli_Chr05	14395299	GG	TT	TT	INTERGENIC			
SNP_34980_A_14395319	NC_021164.1	Ca_Kabuli_Chr05	14395319	AA	GG	GG	INTERGENIC			
SNP_34981_A_14395322	NC_021164.1	Ca_Kabuli_Chr05	14395322	AA	GG	GG	INTERGENIC			
SNP_34982_A_14395347	NC_021164.1	Ca_Kabuli_Chr05	14395347	AA	TT	TT	INTERGENIC			
SNP_34983_A_14395372	NC_021164.1	Ca_Kabuli_Chr05	14395372	CC	GG	GG	INTERGENIC			
SNP_34984_A_14403755	NC_021164.1	Ca_Kabuli_Chr05	14403755	AA	CC	CC	INTERGENIC			
SNP_34985_A_15126573	NC_021164.1	Ca_Kabuli_Chr05	15126573	TT	AA	AA	INTERGENIC			
SNP_34986_A_15132122	NC_021164.1	Ca_Kabuli_Chr05	15132122	TT	CC	CC	INTERGENIC			
SNP_34987_A_15158049	NC_021164.1	Ca_Kabuli_Chr05	15158049	GG	TT	TT	INTERGENIC			
SNP_34988_A_15162884	NC_021164.1	Ca_Kabuli_Chr05	15162884	GG	AA	AA	INTERGENIC			
SNP_34989_A_15166269	NC_021164.1	Ca_Kabuli_Chr05	15166269	CC	TT	TT	DRR	101501284	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_34990_A_15166327	NC_021164.1	Ca_Kabuli_Chr05	15166327	TT	CC	CC	DRR	101501284	Unknown function
SNP_34991_A_15166359	NC_021164.1	Ca_Kabuli_Chr05	15166359	TT	CC	CC	DRR	101501284	Unknown function
SNP_34992_A_15166405	NC_021164.1	Ca_Kabuli_Chr05	15166405	GG	AA	AA	DRR	101501284	Unknown function
SNP_34993_A_15166422	NC_021164.1	Ca_Kabuli_Chr05	15166422	GG	AA	AA	DRR	101501284	Unknown function
SNP_34994_A_15166439	NC_021164.1	Ca_Kabuli_Chr05	15166439	AA	GG	GG	DRR	101501284	Unknown function
SNP_34995_A_15166456	NC_021164.1	Ca_Kabuli_Chr05	15166456	CC	AA	AA	DRR	101501284	Unknown function
SNP_34996_A_15166612	NC_021164.1	Ca_Kabuli_Chr05	15166612	TT	CC	CC	DRR	101501284	Unknown function
SNP_34997_A_15166626	NC_021164.1	Ca_Kabuli_Chr05	15166626	AA	CC	CC	DRR	101501284	Unknown function
SNP_34998_A_15166718	NC_021164.1	Ca_Kabuli_Chr05	15166718	AA	CC	CC	NON_SYNONYMOUS_CODING	101501284	Unknown function
SNP_34999_A_15166750	NC_021164.1	Ca_Kabuli_Chr05	15166750	TT	CC	CC	NON_SYNONYMOUS_CODING	101501284	Unknown function
SNP_35000_A_15169997	NC_021164.1	Ca_Kabuli_Chr05	15169997	CC	TT	TT	URR	101501284	Unknown function
SNP_35001_A_15170912	NC_021164.1	Ca_Kabuli_Chr05	15170912	GG	AA	AA	URR	101501284	Unknown function
SNP_35002_A_15171026	NC_021164.1	Ca_Kabuli_Chr05	15171026	TT	CC	CC	URR	101501284	Unknown function
SNP_35005_A_15199085	NC_021164.1	Ca_Kabuli_Chr05	15199085	CC	TT	TT	INTERGENIC		
SNP_35006_A_15199155	NC_021164.1	Ca_Kabuli_Chr05	15199155	AA	TT	TT	INTERGENIC		
SNP_35007_A_15199156	NC_021164.1	Ca_Kabuli_Chr05	15199156	GG	AA	AA	INTERGENIC		
SNP_35008_A_15205030	NC_021164.1	Ca_Kabuli_Chr05	15205030	AA	GG	GG	INTERGENIC		
SNP_35009_A_15205033	NC_021164.1	Ca_Kabuli_Chr05	15205033	AA	CC	CC	INTERGENIC		
SNP_35010_A_15205070	NC_021164.1	Ca_Kabuli_Chr05	15205070	AA	GG	GG	INTERGENIC		
SNP_35011_A_15205076	NC_021164.1	Ca_Kabuli_Chr05	15205076	GG	TT	TT	INTERGENIC		
SNP_35012_A_15205145	NC_021164.1	Ca_Kabuli_Chr05	15205145	GG	AA	AA	INTERGENIC		
SNP_35013_A_15205166	NC_021164.1	Ca_Kabuli_Chr05	15205166	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35014_A_15205180	NC_021164.1	Ca_Kabuli_Chr05	15205180	CC	TT	TT	INTERGENIC			
SNP_35015_A_15205486	NC_021164.1	Ca_Kabuli_Chr05	15205486	TT	GG	GG	INTERGENIC			
SNP_35016_A_15205493	NC_021164.1	Ca_Kabuli_Chr05	15205493	AA	GG	GG	INTERGENIC			
SNP_35017_A_15205659	NC_021164.1	Ca_Kabuli_Chr05	15205659	GG	CC	CC	INTERGENIC			
SNP_35018_A_15205679	NC_021164.1	Ca_Kabuli_Chr05	15205679	CC	AA	AA	INTERGENIC			
SNP_35019_A_15205706	NC_021164.1	Ca_Kabuli_Chr05	15205706	CC	TT	TT	INTERGENIC			
SNP_35020_A_15205767	NC_021164.1	Ca_Kabuli_Chr05	15205767	GG	TT	TT	INTERGENIC			
SNP_35021_A_15232671	NC_021164.1	Ca_Kabuli_Chr05	15232671	CC	AA	AA	INTERGENIC			
SNP_35022_A_15241564	NC_021164.1	Ca_Kabuli_Chr05	15241564	AA	TT	TT	INTERGENIC			
SNP_35024_A_15362485	NC_021164.1	Ca_Kabuli_Chr05	15362485	TT	AA	AA	INTERGENIC			
SNP_35025_A_15362508	NC_021164.1	Ca_Kabuli_Chr05	15362508	GG	AA	AA	INTERGENIC			
SNP_35026_A_15362529	NC_021164.1	Ca_Kabuli_Chr05	15362529	GG	AA	AA	INTERGENIC			
SNP_35027_A_15363023	NC_021164.1	Ca_Kabuli_Chr05	15363023	CC	TT	TT	INTERGENIC			
SNP_35028_A_15363031	NC_021164.1	Ca_Kabuli_Chr05	15363031	TT	CC	CC	INTERGENIC			
SNP_35029_A_15381577	NC_021164.1	Ca_Kabuli_Chr05	15381577	GG	AA	AA	INTERGENIC			
SNP_35030_A_15408665	NC_021164.1	Ca_Kabuli_Chr05	15408665	TT	GG	GG	INTERGENIC			
SNP_35031_A_15415022	NC_021164.1	Ca_Kabuli_Chr05	15415022	AA	TT	TT	INTERGENIC			
SNP_35032_A_15417246	NC_021164.1	Ca_Kabuli_Chr05	15417246	CC	GG	GG	INTERGENIC			
SNP_35033_A_15417248	NC_021164.1	Ca_Kabuli_Chr05	15417248	GG	TT	TT	INTERGENIC			
SNP_35034_A_15417251	NC_021164.1	Ca_Kabuli_Chr05	15417251	AA	CC	CC	INTERGENIC			
SNP_35035_A_15417266	NC_021164.1	Ca_Kabuli_Chr05	15417266	TT	CC	CC	INTERGENIC			
SNP_35036_A_15417274	NC_021164.1	Ca_Kabuli_Chr05	15417274	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35037_A_15417286	NC_021164.1	Ca_Kabuli_Chr05	15417286	TT	CC	CC	INTERGENIC		
SNP_35038_A_15417313	NC_021164.1	Ca_Kabuli_Chr05	15417313	GG	AA	AA	INTERGENIC		
SNP_35039_A_15417315	NC_021164.1	Ca_Kabuli_Chr05	15417315	TT	AA	AA	INTERGENIC		
SNP_35040_A_15417363	NC_021164.1	Ca_Kabuli_Chr05	15417363	TT	CC	CC	INTERGENIC		
SNP_35041_A_15417396	NC_021164.1	Ca_Kabuli_Chr05	15417396	AA	TT	TT	INTERGENIC		
SNP_35042_A_15417397	NC_021164.1	Ca_Kabuli_Chr05	15417397	CC	TT	TT	INTERGENIC		
SNP_35043_A_15417398	NC_021164.1	Ca_Kabuli_Chr05	15417398	AA	TT	TT	INTERGENIC		
SNP_35044_A_15417544	NC_021164.1	Ca_Kabuli_Chr05	15417544	CC	TT	TT	INTERGENIC		
SNP_35045_A_15417550	NC_021164.1	Ca_Kabuli_Chr05	15417550	AA	GG	GG	INTERGENIC		
SNP_35046_A_15417605	NC_021164.1	Ca_Kabuli_Chr05	15417605	TT	GG	GG	INTERGENIC		
SNP_35047_A_15417608	NC_021164.1	Ca_Kabuli_Chr05	15417608	CC	AA	AA	INTERGENIC		
SNP_35048_A_15417626	NC_021164.1	Ca_Kabuli_Chr05	15417626	AA	GG	GG	INTERGENIC		
SNP_35049_A_15417723	NC_021164.1	Ca_Kabuli_Chr05	15417723	GG	AA	AA	INTERGENIC		
SNP_35050_A_15417740	NC_021164.1	Ca_Kabuli_Chr05	15417740	CC	TT	TT	INTERGENIC		
SNP_35051_A_15417752	NC_021164.1	Ca_Kabuli_Chr05	15417752	GG	AA	AA	INTERGENIC		
SNP_35052_A_15417822	NC_021164.1	Ca_Kabuli_Chr05	15417822	GG	AA	AA	INTERGENIC		
SNP_35053_A_15424446	NC_021164.1	Ca_Kabuli_Chr05	15424446	TT	CC	CC	DRR	101498617	Unknown function
SNP_35054_A_15424560	NC_021164.1	Ca_Kabuli_Chr05	15424560	CC	TT	TT	DRR	101498617	Unknown function
SNP_35055_A_15424561	NC_021164.1	Ca_Kabuli_Chr05	15424561	AA	GG	GG	DRR	101498617	Unknown function
SNP_35056_A_15424586	NC_021164.1	Ca_Kabuli_Chr05	15424586	GG	CC	CC	DRR	101498617	Unknown function
SNP_35057_A_15424626	NC_021164.1	Ca_Kabuli_Chr05	15424626	AA	GG	GG	DRR	101498617	Unknown function
SNP_35058_A_15424649	NC_021164.1	Ca_Kabuli_Chr05	15424649	AA	GG	GG	DRR	101498617	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35059_A_15424705	NC_021164.1	Ca_Kabuli_Chr05	15424705	TT	GG	GG	DRR	101498617	Unknown function
SNP_35060_A_15424974	NC_021164.1	Ca_Kabuli_Chr05	15424974	AA	GG	GG	DRR	101498617	Unknown function
SNP_35061_A_15424997	NC_021164.1	Ca_Kabuli_Chr05	15424997	CC	AA	AA	DRR	101498617	Unknown function
SNP_35062_A_15444218	NC_021164.1	Ca_Kabuli_Chr05	15444218	GG	AA	AA	INTERGENIC		
SNP_35063_A_15448131	NC_021164.1	Ca_Kabuli_Chr05	15448131	GG	AA	AA	INTERGENIC		
SNP_35064_A_15448328	NC_021164.1	Ca_Kabuli_Chr05	15448328	GG	AA	AA	INTERGENIC		
SNP_35065_A_15488126	NC_021164.1	Ca_Kabuli_Chr05	15488126	TT	AA	AA	INTERGENIC		
SNP_35066_A_15488849	NC_021164.1	Ca_Kabuli_Chr05	15488849	TT	GG	GG	INTERGENIC		
SNP_35067_A_15511389	NC_021164.1	Ca_Kabuli_Chr05	15511389	TT	AA	AA	INTERGENIC		
SNP_35068_A_15526431	NC_021164.1	Ca_Kabuli_Chr05	15526431	TT	AA	AA	INTERGENIC		
SNP_35069_A_15526483	NC_021164.1	Ca_Kabuli_Chr05	15526483	TT	CC	CC	INTERGENIC		
SNP_35070_A_15535289	NC_021164.1	Ca_Kabuli_Chr05	15535289	TT	GG	GG	INTERGENIC		
SNP_35071_A_15535303	NC_021164.1	Ca_Kabuli_Chr05	15535303	AA	CC	CC	INTERGENIC		
SNP_35072_A_15570853	NC_021164.1	Ca_Kabuli_Chr05	15570853	AA	GG	GG	INTERGENIC		
SNP_35073_A_15604004	NC_021164.1	Ca_Kabuli_Chr05	15604004	CC	TT	TT	INTERGENIC		
SNP_35074_A_15604502	NC_021164.1	Ca_Kabuli_Chr05	15604502	GG	TT	TT	INTERGENIC		
SNP_35075_A_15611629	NC_021164.1	Ca_Kabuli_Chr05	15611629	AA	GG	GG	INTERGENIC		
SNP_35076_A_15640857	NC_021164.1	Ca_Kabuli_Chr05	15640857	GG	TT	TT	INTERGENIC		
SNP_35077_A_15716864	NC_021164.1	Ca_Kabuli_Chr05	15716864	AA	TT	TT	INTERGENIC		
SNP_35078_A_15746506	NC_021164.1	Ca_Kabuli_Chr05	15746506	GG	TT	TT	INTERGENIC		
SNP_35079_A_15754804	NC_021164.1	Ca_Kabuli_Chr05	15754804	CC	AA	AA	INTERGENIC		
SNP_35082_A_15834892	NC_021164.1	Ca_Kabuli_Chr05	15834892	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35083_A_15834987	NC_021164.1	Ca_Kabuli_Chr05	15834987	GG	AA	AA	INTERGENIC			
SNP_35084_A_15835203	NC_021164.1	Ca_Kabuli_Chr05	15835203	CC	AA	AA	INTERGENIC			
SNP_35085_A_15835242	NC_021164.1	Ca_Kabuli_Chr05	15835242	TT	AA	AA	INTERGENIC			
SNP_35086_A_15835278	NC_021164.1	Ca_Kabuli_Chr05	15835278	TT	CC	CC	INTERGENIC			
SNP_35087_A_15835338	NC_021164.1	Ca_Kabuli_Chr05	15835338	AA	GG	GG	INTERGENIC			
SNP_35088_A_15835371	NC_021164.1	Ca_Kabuli_Chr05	15835371	GG	AA	AA	INTERGENIC			
SNP_35089_A_15835401	NC_021164.1	Ca_Kabuli_Chr05	15835401	CC	TT	TT	INTERGENIC			
SNP_35091_A_15875910	NC_021164.1	Ca_Kabuli_Chr05	15875910	AA	CC	CC	INTERGENIC			
SNP_35092_A_15876888	NC_021164.1	Ca_Kabuli_Chr05	15876888	AA	TT	TT	INTERGENIC			
SNP_35093_A_15876897	NC_021164.1	Ca_Kabuli_Chr05	15876897	AA	CC	CC	INTERGENIC			
SNP_35094_A_15876930	NC_021164.1	Ca_Kabuli_Chr05	15876930	GG	AA	AA	INTERGENIC			
SNP_35095_A_15876969	NC_021164.1	Ca_Kabuli_Chr05	15876969	GG	TT	TT	INTERGENIC			
SNP_35096_A_15876973	NC_021164.1	Ca_Kabuli_Chr05	15876973	TT	AA	AA	INTERGENIC			
SNP_35097_A_15877053	NC_021164.1	Ca_Kabuli_Chr05	15877053	GG	CC	CC	INTERGENIC			
SNP_35098_A_15877056	NC_021164.1	Ca_Kabuli_Chr05	15877056	GG	CC	CC	INTERGENIC			
SNP_35099_A_15877077	NC_021164.1	Ca_Kabuli_Chr05	15877077	AA	GG	GG	INTERGENIC			
SNP_35100_A_15877179	NC_021164.1	Ca_Kabuli_Chr05	15877179	GG	AA	AA	INTERGENIC			
SNP_35101_A_15877242	NC_021164.1	Ca_Kabuli_Chr05	15877242	TT	AA	AA	INTERGENIC			
SNP_35102_A_15877335	NC_021164.1	Ca_Kabuli_Chr05	15877335	TT	CC	CC	INTERGENIC			
SNP_35104_A_15894842	NC_021164.1	Ca_Kabuli_Chr05	15894842	TT	AA	AA	INTERGENIC			
SNP_35105_A_15894906	NC_021164.1	Ca_Kabuli_Chr05	15894906	AA	GG	GG	INTERGENIC			
SNP_35106_A_15897835	NC_021164.1	Ca_Kabuli_Chr05	15897835	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35107_A_15908497	NC_021164.1	Ca_Kabuli_Chr05	15908497	AA	GG	GG	INTERGENIC			
SNP_35108_A_15908509	NC_021164.1	Ca_Kabuli_Chr05	15908509	AA	GG	GG	INTERGENIC			
SNP_35109_A_15910607	NC_021164.1	Ca_Kabuli_Chr05	15910607	TT	CC	CC	INTERGENIC			
SNP_35110_A_15910620	NC_021164.1	Ca_Kabuli_Chr05	15910620	GG	AA	AA	INTERGENIC			
SNP_35111_A_15910628	NC_021164.1	Ca_Kabuli_Chr05	15910628	GG	AA	AA	INTERGENIC			
SNP_35112_A_15910634	NC_021164.1	Ca_Kabuli_Chr05	15910634	TT	CC	CC	INTERGENIC			
SNP_35113_A_15910636	NC_021164.1	Ca_Kabuli_Chr05	15910636	GG	AA	AA	INTERGENIC			
SNP_35114_A_15910869	NC_021164.1	Ca_Kabuli_Chr05	15910869	CC	AA	AA	INTERGENIC			
SNP_35115_A_15910947	NC_021164.1	Ca_Kabuli_Chr05	15910947	GG	AA	AA	INTERGENIC			
SNP_35117_A_15923733	NC_021164.1	Ca_Kabuli_Chr05	15923733	TT	CC	CC	INTERGENIC			
SNP_35118_A_15929189	NC_021164.1	Ca_Kabuli_Chr05	15929189	TT	GG	GG	INTERGENIC			
SNP_35119_A_15929288	NC_021164.1	Ca_Kabuli_Chr05	15929288	TT	AA	AA	INTERGENIC			
SNP_35121_A_15929617	NC_021164.1	Ca_Kabuli_Chr05	15929617	AA	CC	CC	INTERGENIC			
SNP_35122_A_15929658	NC_021164.1	Ca_Kabuli_Chr05	15929658	AA	TT	TT	INTERGENIC			
SNP_35123_A_15929716	NC_021164.1	Ca_Kabuli_Chr05	15929716	AA	CC	CC	INTERGENIC			
SNP_35124_A_15931178	NC_021164.1	Ca_Kabuli_Chr05	15931178	AA	GG	GG	INTERGENIC			
SNP_35125_A_15931556	NC_021164.1	Ca_Kabuli_Chr05	15931556	TT	AA	AA	INTERGENIC			
SNP_35126_A_15948315	NC_021164.1	Ca_Kabuli_Chr05	15948315	AA	CC	CC	URR	101515019	Unknown function	
SNP_35127_A_15957391	NC_021164.1	Ca_Kabuli_Chr05	15957391	CC	TT	TT	INTERGENIC			
SNP_35128_A_16002048	NC_021164.1	Ca_Kabuli_Chr05	16002048	TT	CC	CC	INTERGENIC			
SNP_35129_A_16004439	NC_021164.1	Ca_Kabuli_Chr05	16004439	CC	TT	TT	INTERGENIC			
SNP_35130_A_16005498	NC_021164.1	Ca_Kabuli_Chr05	16005498	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35131_A_16005551	NC_021164.1	Ca_Kabuli_Chr05	16005551	TT	CC	CC	INTERGENIC			
SNP_35132_A_16022067	NC_021164.1	Ca_Kabuli_Chr05	16022067	TT	CC	CC	INTERGENIC			
SNP_35133_A_16022350	NC_021164.1	Ca_Kabuli_Chr05	16022350	GG	TT	TT	INTERGENIC			
SNP_35134_A_16022728	NC_021164.1	Ca_Kabuli_Chr05	16022728	TT	CC	CC	INTERGENIC			
SNP_35135_A_16083241	NC_021164.1	Ca_Kabuli_Chr05	16083241	AA	GG	GG	INTERGENIC			
SNP_35136_A_16083267	NC_021164.1	Ca_Kabuli_Chr05	16083267	GG	AA	AA	INTERGENIC			
SNP_35137_A_16083503	NC_021164.1	Ca_Kabuli_Chr05	16083503	TT	GG	GG	INTERGENIC			
SNP_35138_A_16083504	NC_021164.1	Ca_Kabuli_Chr05	16083504	TT	CC	CC	INTERGENIC			
SNP_35139_A_16083549	NC_021164.1	Ca_Kabuli_Chr05	16083549	TT	AA	AA	INTERGENIC			
SNP_35140_A_16089552	NC_021164.1	Ca_Kabuli_Chr05	16089552	AA	GG	GG	INTERGENIC			
SNP_35141_A_16108587	NC_021164.1	Ca_Kabuli_Chr05	16108587	GG	AA	AA	INTERGENIC			
SNP_35142_A_16113656	NC_021164.1	Ca_Kabuli_Chr05	16113656	AA	GG	GG	INTERGENIC			
SNP_35143_A_16113664	NC_021164.1	Ca_Kabuli_Chr05	16113664	TT	CC	CC	INTERGENIC			
SNP_35144_A_16129917	NC_021164.1	Ca_Kabuli_Chr05	16129917	TT	AA	AA	INTERGENIC			
SNP_35145_A_16129939	NC_021164.1	Ca_Kabuli_Chr05	16129939	TT	CC	CC	INTERGENIC			
SNP_35146_A_16152144	NC_021164.1	Ca_Kabuli_Chr05	16152144	GG	TT	TT	INTERGENIC			
SNP_35147_A_16152239	NC_021164.1	Ca_Kabuli_Chr05	16152239	GG	AA	AA	INTERGENIC			
SNP_35148_A_16152299	NC_021164.1	Ca_Kabuli_Chr05	16152299	AA	TT	TT	INTERGENIC			
SNP_35149_A_16152304	NC_021164.1	Ca_Kabuli_Chr05	16152304	GG	TT	TT	INTERGENIC			
SNP_35150_A_16152340	NC_021164.1	Ca_Kabuli_Chr05	16152340	AA	GG	GG	INTERGENIC			
SNP_35151_A_16152444	NC_021164.1	Ca_Kabuli_Chr05	16152444	TT	CC	CC	INTERGENIC			
SNP_35152_A_16203602	NC_021164.1	Ca_Kabuli_Chr05	16203602	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35153_A_16203643	NC_021164.1	Ca_Kabuli_Chr05	16203643	GG	AA	AA	INTERGENIC		
SNP_35154_A_16230576	NC_021164.1	Ca_Kabuli_Chr05	16230576	AA	CC	CC	INTERGENIC		
SNP_35155_A_16230633	NC_021164.1	Ca_Kabuli_Chr05	16230633	CC	AA	AA	INTERGENIC		
SNP_35156_A_16256210	NC_021164.1	Ca_Kabuli_Chr05	16256210	GG	AA	AA	INTERGENIC		
SNP_35157_A_16298078	NC_021164.1	Ca_Kabuli_Chr05	16298078	GG	TT	TT	DRR	101507509	uncharacterized LOC101507509
SNP_35158_A_16319742	NC_021164.1	Ca_Kabuli_Chr05	16319742	TT	CC	CC	INTERGENIC		
SNP_35159_A_16319793	NC_021164.1	Ca_Kabuli_Chr05	16319793	TT	CC	CC	INTERGENIC		
SNP_35160_A_16319801	NC_021164.1	Ca_Kabuli_Chr05	16319801	GG	CC	CC	INTERGENIC		
SNP_35161_A_16319897	NC_021164.1	Ca_Kabuli_Chr05	16319897	GG	CC	CC	INTERGENIC		
SNP_35163_A_16320013	NC_021164.1	Ca_Kabuli_Chr05	16320013	CC	TT	TT	INTERGENIC		
SNP_35164_A_16320045	NC_021164.1	Ca_Kabuli_Chr05	16320045	CC	TT	TT	INTERGENIC		
SNP_35165_A_16322082	NC_021164.1	Ca_Kabuli_Chr05	16322082	TT	CC	CC	INTERGENIC		
SNP_35167_A_16387704	NC_021164.1	Ca_Kabuli_Chr05	16387704	GG	AA	AA	INTERGENIC		
SNP_35171_A_16417762	NC_021164.1	Ca_Kabuli_Chr05	16417762	CC	TT	TT	INTERGENIC		
SNP_35172_A_16429702	NC_021164.1	Ca_Kabuli_Chr05	16429702	AA	TT	TT	INTRON	101492324	Unknown function
SNP_35173_A_16441489	NC_021164.1	Ca_Kabuli_Chr05	16441489	GG	AA	AA	INTRON	101492324	Unknown function
SNP_35174_A_16487834	NC_021164.1	Ca_Kabuli_Chr05	16487834	AA	CC	CC	INTERGENIC		
SNP_35175_A_16487836	NC_021164.1	Ca_Kabuli_Chr05	16487836	AA	TT	TT	INTERGENIC		
SNP_35176_A_16493893	NC_021164.1	Ca_Kabuli_Chr05	16493893	AA	TT	TT	INTERGENIC		
SNP_35177_A_16493894	NC_021164.1	Ca_Kabuli_Chr05	16493894	TT	CC	CC	INTERGENIC		
SNP_35178_A_16556430	NC_021164.1	Ca_Kabuli_Chr05	16556430	TT	AA	AA	INTERGENIC		
SNP_35179_A_16556466	NC_021164.1	Ca_Kabuli_Chr05	16556466	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35180_A_16556578	NC_021164.1	Ca_Kabuli_Chr05	16556578	GG	AA	AA	INTERGENIC			
SNP_35181_A_16650646	NC_021164.1	Ca_Kabuli_Chr05	16650646	AA	GG	GG	INTERGENIC			
SNP_35182_A_16650737	NC_021164.1	Ca_Kabuli_Chr05	16650737	GG	AA	AA	INTERGENIC			
SNP_35183_A_16650783	NC_021164.1	Ca_Kabuli_Chr05	16650783	TT	CC	CC	INTERGENIC			
SNP_35184_A_16651514	NC_021164.1	Ca_Kabuli_Chr05	16651514	TT	GG	GG	INTERGENIC			
SNP_35185_A_16651521	NC_021164.1	Ca_Kabuli_Chr05	16651521	TT	CC	CC	INTERGENIC			
SNP_35186_A_16703465	NC_021164.1	Ca_Kabuli_Chr05	16703465	AA	GG	GG	INTERGENIC			
SNP_35187_A_16703469	NC_021164.1	Ca_Kabuli_Chr05	16703469	AA	GG	GG	INTERGENIC			
SNP_35188_A_16703494	NC_021164.1	Ca_Kabuli_Chr05	16703494	TT	CC	CC	INTERGENIC			
SNP_35189_A_16703529	NC_021164.1	Ca_Kabuli_Chr05	16703529	TT	GG	GG	INTERGENIC			
SNP_35190_A_16703531	NC_021164.1	Ca_Kabuli_Chr05	16703531	AA	CC	CC	INTERGENIC			
SNP_35191_A_16703701	NC_021164.1	Ca_Kabuli_Chr05	16703701	TT	CC	CC	INTERGENIC			
SNP_35192_A_16744662	NC_021164.1	Ca_Kabuli_Chr05	16744662	TT	AA	AA	INTRON		101510480	pentatricopeptide repeat-containing protein At1g80270, mitochondrial-like
SNP_35194_A_16765983	NC_021164.1	Ca_Kabuli_Chr05	16765983	CC	TT	TT	URR		101493641	pentatricopeptide repeat-containing protein At1g80270, mitochondrial-like
SNP_35195_A_16766060	NC_021164.1	Ca_Kabuli_Chr05	16766060	GG	TT	TT	URR		101493641	pentatricopeptide repeat-containing protein At1g80270, mitochondrial-like
SNP_35196_A_16766167	NC_021164.1	Ca_Kabuli_Chr05	16766167	CC	GG	GG	INTERGENIC			
SNP_35197_A_16766290	NC_021164.1	Ca_Kabuli_Chr05	16766290	GG	AA	AA	INTERGENIC			
SNP_35198_A_16766978	NC_021164.1	Ca_Kabuli_Chr05	16766978	AA	TT	TT	INTERGENIC			
SNP_35199_A_16814475	NC_021164.1	Ca_Kabuli_Chr05	16814475	AA	CC	CC	INTERGENIC			
SNP_35200_A_16828085	NC_021164.1	Ca_Kabuli_Chr05	16828085	GG	TT	TT	INTERGENIC			
SNP_35201_A_16863646	NC_021164.1	Ca_Kabuli_Chr05	16863646	TT	CC	CC	INTERGENIC			
SNP_35202_A_16863986	NC_021164.1	Ca_Kabuli_Chr05	16863986	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35203_A_16878790	NC_021164.1	Ca_Kabuli_Chr05	16878790	AA	CC	CC	INTERGENIC			
SNP_35205_A_16942251	NC_021164.1	Ca_Kabuli_Chr05	16942251	GG	AA	AA	INTERGENIC			
SNP_35206_A_16957693	NC_021164.1	Ca_Kabuli_Chr05	16957693	TT	AA	AA	INTERGENIC			
SNP_35207_A_16957697	NC_021164.1	Ca_Kabuli_Chr05	16957697	GG	TT	TT	INTERGENIC			
SNP_35208_A_16957706	NC_021164.1	Ca_Kabuli_Chr05	16957706	GG	AA	AA	INTERGENIC			
SNP_35209_A_16957721	NC_021164.1	Ca_Kabuli_Chr05	16957721	GG	CC	CC	INTERGENIC			
SNP_35210_A_16957739	NC_021164.1	Ca_Kabuli_Chr05	16957739	CC	TT	TT	INTERGENIC			
SNP_35211_A_16958048	NC_021164.1	Ca_Kabuli_Chr05	16958048	GG	AA	AA	INTERGENIC			
SNP_35212_A_16958100	NC_021164.1	Ca_Kabuli_Chr05	16958100	GG	AA	AA	INTERGENIC			
SNP_35214_A_17012320	NC_021164.1	Ca_Kabuli_Chr05	17012320	TT	CC	CC	INTERGENIC			
SNP_35215_A_17012608	NC_021164.1	Ca_Kabuli_Chr05	17012608	GG	AA	AA	INTERGENIC			
SNP_35216_A_17012635	NC_021164.1	Ca_Kabuli_Chr05	17012635	TT	CC	CC	INTERGENIC			
SNP_35217_A_17012653	NC_021164.1	Ca_Kabuli_Chr05	17012653	AA	GG	GG	INTERGENIC			
SNP_35218_A_17012686	NC_021164.1	Ca_Kabuli_Chr05	17012686	TT	AA	AA	INTERGENIC			
SNP_35219_A_17012701	NC_021164.1	Ca_Kabuli_Chr05	17012701	CC	TT	TT	INTERGENIC			
SNP_35220_A_17012740	NC_021164.1	Ca_Kabuli_Chr05	17012740	AA	GG	GG	INTERGENIC			
SNP_35221_A_17012751	NC_021164.1	Ca_Kabuli_Chr05	17012751	AA	GG	GG	INTERGENIC			
SNP_35222_A_17013708	NC_021164.1	Ca_Kabuli_Chr05	17013708	AA	CC	CC	INTERGENIC			
SNP_35223_A_17062990	NC_021164.1	Ca_Kabuli_Chr05	17062990	CC	TT	TT	INTERGENIC			
SNP_35224_A_17063013	NC_021164.1	Ca_Kabuli_Chr05	17063013	AA	GG	GG	INTERGENIC			
SNP_35225_A_17063047	NC_021164.1	Ca_Kabuli_Chr05	17063047	AA	GG	GG	INTERGENIC			
SNP_35226_A_17063048	NC_021164.1	Ca_Kabuli_Chr05	17063048	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35227_A_17063068	NC_021164.1	Ca_Kabuli_Chr05	17063068	AA	GG	GG	INTERGENIC			
SNP_35228_A_17063074	NC_021164.1	Ca_Kabuli_Chr05	17063074	GG	AA	AA	INTERGENIC			
SNP_35229_A_17063092	NC_021164.1	Ca_Kabuli_Chr05	17063092	TT	CC	CC	INTERGENIC			
SNP_35230_A_17063121	NC_021164.1	Ca_Kabuli_Chr05	17063121	AA	GG	GG	INTERGENIC			
SNP_35231_A_17063129	NC_021164.1	Ca_Kabuli_Chr05	17063129	TT	AA	AA	INTERGENIC			
SNP_35232_A_17063150	NC_021164.1	Ca_Kabuli_Chr05	17063150	AA	GG	GG	INTERGENIC			
SNP_35233_A_17127298	NC_021164.1	Ca_Kabuli_Chr05	17127298	AA	GG	GG	INTERGENIC			
SNP_35234_A_17163637	NC_021164.1	Ca_Kabuli_Chr05	17163637	TT	AA	AA	INTERGENIC			
SNP_35235_A_17208508	NC_021164.1	Ca_Kabuli_Chr05	17208508	GG	AA	AA	INTERGENIC			
SNP_35236_A_17233854	NC_021164.1	Ca_Kabuli_Chr05	17233854	AA	TT	TT	INTERGENIC			
SNP_35237_A_17233872	NC_021164.1	Ca_Kabuli_Chr05	17233872	CC	TT	TT	INTERGENIC			
SNP_35238_A_17233881	NC_021164.1	Ca_Kabuli_Chr05	17233881	CC	TT	TT	INTERGENIC			
SNP_35239_A_17233897	NC_021164.1	Ca_Kabuli_Chr05	17233897	AA	GG	GG	INTERGENIC			
SNP_35240_A_17233907	NC_021164.1	Ca_Kabuli_Chr05	17233907	GG	AA	AA	INTERGENIC			
SNP_35241_A_17233968	NC_021164.1	Ca_Kabuli_Chr05	17233968	AA	GG	GG	INTERGENIC			
SNP_35242_A_17233976	NC_021164.1	Ca_Kabuli_Chr05	17233976	GG	AA	AA	INTERGENIC			
SNP_35243_A_17233989	NC_021164.1	Ca_Kabuli_Chr05	17233989	TT	CC	CC	INTERGENIC			
SNP_35244_A_17233995	NC_021164.1	Ca_Kabuli_Chr05	17233995	AA	GG	GG	INTERGENIC			
SNP_35245_A_17234235	NC_021164.1	Ca_Kabuli_Chr05	17234235	CC	TT	TT	INTERGENIC			
SNP_35246_A_17234361	NC_021164.1	Ca_Kabuli_Chr05	17234361	CC	AA	AA	INTERGENIC			
SNP_35247_A_17234362	NC_021164.1	Ca_Kabuli_Chr05	17234362	AA	GG	GG	INTERGENIC			
SNP_35248_A_17234704	NC_021164.1	Ca_Kabuli_Chr05	17234704	GG	AA	AA	INTERGENIC			

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SNP_35249_A_17239539	NC_021164.1	Ca_Kabuli_Chr05	17239539	CC	TT	TT	INTERGENIC			
SNP_35250_A_17239623	NC_021164.1	Ca_Kabuli_Chr05	17239623	GG	AA	AA	INTERGENIC			
SNP_35251_A_17241041	NC_021164.1	Ca_Kabuli_Chr05	17241041	GG	AA	AA	INTERGENIC			
SNP_35252_A_17244321	NC_021164.1	Ca_Kabuli_Chr05	17244321	AA	TT	TT	INTERGENIC			
SNP_35253_A_17249461	NC_021164.1	Ca_Kabuli_Chr05	17249461	AA	CC	CC	INTERGENIC			
SNP_35254_A_17254721	NC_021164.1	Ca_Kabuli_Chr05	17254721	TT	GG	GG	INTERGENIC			
SNP_35255_A_17254722	NC_021164.1	Ca_Kabuli_Chr05	17254722	TT	CC	CC	INTERGENIC			
SNP_35256_A_17254742	NC_021164.1	Ca_Kabuli_Chr05	17254742	TT	GG	GG	INTERGENIC			
SNP_35257_A_17254825	NC_021164.1	Ca_Kabuli_Chr05	17254825	TT	AA	AA	INTERGENIC			
SNP_35258_A_17255078	NC_021164.1	Ca_Kabuli_Chr05	17255078	TT	CC	CC	INTERGENIC			
SNP_35259_A_17301378	NC_021164.1	Ca_Kabuli_Chr05	17301378	GG	AA	AA	INTERGENIC			
SNP_35260_A_17323827	NC_021164.1	Ca_Kabuli_Chr05	17323827	AA	GG	GG	INTERGENIC			
SNP_35261_A_17324019	NC_021164.1	Ca_Kabuli_Chr05	17324019	AA	TT	TT	INTERGENIC			
SNP_35262_A_17324040	NC_021164.1	Ca_Kabuli_Chr05	17324040	TT	CC	CC	INTERGENIC			
SNP_35263_A_17324080	NC_021164.1	Ca_Kabuli_Chr05	17324080	AA	GG	GG	INTERGENIC			
SNP_35264_A_17324102	NC_021164.1	Ca_Kabuli_Chr05	17324102	TT	GG	GG	INTERGENIC			
SNP_35265_A_17324168	NC_021164.1	Ca_Kabuli_Chr05	17324168	GG	TT	TT	INTERGENIC			
SNP_35266_A_17324224	NC_021164.1	Ca_Kabuli_Chr05	17324224	TT	CC	CC	INTERGENIC			
SNP_35267_A_17324251	NC_021164.1	Ca_Kabuli_Chr05	17324251	CC	AA	AA	INTERGENIC			
SNP_35268_A_17369906	NC_021164.1	Ca_Kabuli_Chr05	17369906	CC	TT	TT	INTERGENIC			
SNP_35269_A_17369908	NC_021164.1	Ca_Kabuli_Chr05	17369908	AA	TT	TT	INTERGENIC			
SNP_35270_A_17369931	NC_021164.1	Ca_Kabuli_Chr05	17369931	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35271_A_17369954	NC_021164.1	Ca_Kabuli_Chr05	17369954	GG	AA	AA	INTERGENIC			
SNP_35272_A_17371043	NC_021164.1	Ca_Kabuli_Chr05	17371043	TT	GG	GG	INTERGENIC			
SNP_35273_A_17395559	NC_021164.1	Ca_Kabuli_Chr05	17395559	TT	CC	CC	INTERGENIC			
SNP_35274_A_17463174	NC_021164.1	Ca_Kabuli_Chr05	17463174	AA	GG	GG	INTERGENIC			
SNP_35276_A_17474270	NC_021164.1	Ca_Kabuli_Chr05	17474270	AA	GG	GG	INTERGENIC			
SNP_35277_A_17494731	NC_021164.1	Ca_Kabuli_Chr05	17494731	AA	CC	CC	INTERGENIC			
SNP_35278_A_17494742	NC_021164.1	Ca_Kabuli_Chr05	17494742	TT	GG	GG	INTERGENIC			
SNP_35279_A_17494750	NC_021164.1	Ca_Kabuli_Chr05	17494750	GG	AA	AA	INTERGENIC			
SNP_35280_A_17494840	NC_021164.1	Ca_Kabuli_Chr05	17494840	AA	GG	GG	INTERGENIC			
SNP_35282_A_17494898	NC_021164.1	Ca_Kabuli_Chr05	17494898	AA	GG	GG	INTERGENIC			
SNP_35283_A_17495060	NC_021164.1	Ca_Kabuli_Chr05	17495060	AA	GG	GG	INTERGENIC			
SNP_35284_A_17512978	NC_021164.1	Ca_Kabuli_Chr05	17512978	TT	AA	AA	INTERGENIC			
SNP_35285_A_17512982	NC_021164.1	Ca_Kabuli_Chr05	17512982	AA	TT	TT	INTERGENIC			
SNP_35286_A_17537066	NC_021164.1	Ca_Kabuli_Chr05	17537066	AA	GG	GG	INTERGENIC			
SNP_35287_A_17542796	NC_021164.1	Ca_Kabuli_Chr05	17542796	AA	GG	GG	INTERGENIC			
SNP_35288_A_17542853	NC_021164.1	Ca_Kabuli_Chr05	17542853	AA	TT	TT	INTERGENIC			
SNP_35289_A_17543066	NC_021164.1	Ca_Kabuli_Chr05	17543066	GG	AA	AA	INTERGENIC			
SNP_35290_A_17543069	NC_021164.1	Ca_Kabuli_Chr05	17543069	AA	TT	TT	INTERGENIC			
SNP_35291_A_17570491	NC_021164.1	Ca_Kabuli_Chr05	17570491	TT	CC	CC	INTERGENIC			
SNP_35292_A_17575344	NC_021164.1	Ca_Kabuli_Chr05	17575344	TT	CC	CC	INTERGENIC			
SNP_35293_A_17575508	NC_021164.1	Ca_Kabuli_Chr05	17575508	CC	TT	TT	INTERGENIC			
SNP_35294_A_17595567	NC_021164.1	Ca_Kabuli_Chr05	17595567	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35295_A_17595576	NC_021164.1	Ca_Kabuli_Chr05	17595576	TT	GG	GG	INTERGENIC			
SNP_35296_A_17606759	NC_021164.1	Ca_Kabuli_Chr05	17606759	TT	GG	GG	INTERGENIC			
SNP_35297_A_17610535	NC_021164.1	Ca_Kabuli_Chr05	17610535	CC	TT	TT	INTERGENIC			
SNP_35298_A_17612346	NC_021164.1	Ca_Kabuli_Chr05	17612346	GG	AA	AA	INTERGENIC			
SNP_35299_A_17612347	NC_021164.1	Ca_Kabuli_Chr05	17612347	TT	AA	AA	INTERGENIC			
SNP_35300_A_17612381	NC_021164.1	Ca_Kabuli_Chr05	17612381	AA	GG	GG	INTERGENIC			
SNP_35301_A_17612405	NC_021164.1	Ca_Kabuli_Chr05	17612405	CC	AA	AA	INTERGENIC			
SNP_35302_A_17612495	NC_021164.1	Ca_Kabuli_Chr05	17612495	CC	TT	TT	INTERGENIC			
SNP_35303_A_17612521	NC_021164.1	Ca_Kabuli_Chr05	17612521	CC	TT	TT	INTERGENIC			
SNP_35304_A_17612559	NC_021164.1	Ca_Kabuli_Chr05	17612559	GG	AA	AA	INTERGENIC			
SNP_35306_A_17612680	NC_021164.1	Ca_Kabuli_Chr05	17612680	TT	AA	AA	INTERGENIC			
SNP_35307_A_17612718	NC_021164.1	Ca_Kabuli_Chr05	17612718	TT	AA	AA	INTERGENIC			
SNP_35308_A_17612758	NC_021164.1	Ca_Kabuli_Chr05	17612758	AA	GG	GG	INTERGENIC			
SNP_35309_A_17612770	NC_021164.1	Ca_Kabuli_Chr05	17612770	AA	CC	CC	INTERGENIC			
SNP_35311_A_17672076	NC_021164.1	Ca_Kabuli_Chr05	17672076	CC	GG	GG	URR		101498503	pentatricopeptide repeat-containing protein At3g53170-like
SNP_35312_A_17672092	NC_021164.1	Ca_Kabuli_Chr05	17672092	GG	AA	AA	URR		101498503	pentatricopeptide repeat-containing protein At3g53170-like
SNP_35313_A_17672137	NC_021164.1	Ca_Kabuli_Chr05	17672137	AA	GG	GG	URR		101498503	pentatricopeptide repeat-containing protein At3g53170-like
SNP_35314_A_17672313	NC_021164.1	Ca_Kabuli_Chr05	17672313	GG	CC	CC	URR		101498503	pentatricopeptide repeat-containing protein At3g53170-like
SNP_35315_A_17672406	NC_021164.1	Ca_Kabuli_Chr05	17672406	GG	AA	AA	INTERGENIC			
SNP_35316_A_17672420	NC_021164.1	Ca_Kabuli_Chr05	17672420	TT	CC	CC	INTERGENIC			
SNP_35317_A_17693909	NC_021164.1	Ca_Kabuli_Chr05	17693909	CC	TT	TT	INTERGENIC			
SNP_35318_A_17693922	NC_021164.1	Ca_Kabuli_Chr05	17693922	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35319_A_17694337	NC_021164.1	Ca_Kabuli_Chr05	17694337	AA	CC	CC	INTERGENIC		
SNP_35320_A_17694346	NC_021164.1	Ca_Kabuli_Chr05	17694346	TT	AA	AA	INTERGENIC		
SNP_35323_A_17848749	NC_021164.1	Ca_Kabuli_Chr05	17848749	AA	CC	CC	INTERGENIC		
SNP_35324_A_17848957	NC_021164.1	Ca_Kabuli_Chr05	17848957	TT	AA	AA	INTERGENIC		
SNP_35325_A_17858371	NC_021164.1	Ca_Kabuli_Chr05	17858371	GG	AA	AA	DRR	101508763	aquaporin NIP6-1-like
SNP_35326_A_17861020	NC_021164.1	Ca_Kabuli_Chr05	17861020	CC	AA	AA	INTERGENIC		
SNP_35327_A_17867094	NC_021164.1	Ca_Kabuli_Chr05	17867094	GG	AA	AA	INTRON	id100317	Unknown function
SNP_35328_A_17867151	NC_021164.1	Ca_Kabuli_Chr05	17867151	AA	CC	CC	INTRON	id100317	Unknown function
SNP_35329_A_17867397	NC_021164.1	Ca_Kabuli_Chr05	17867397	CC	TT	TT	INTRON	id100317	Unknown function
SNP_35330_A_17867556	NC_021164.1	Ca_Kabuli_Chr05	17867556	TT	CC	AA	INTRON	id100317	Unknown function
SNP_35331_A_17867844	NC_021164.1	Ca_Kabuli_Chr05	17867844	TT	GG	GG	INTRON	id100317	Unknown function
SNP_35332_A_17868148	NC_021164.1	Ca_Kabuli_Chr05	17868148	GG	CC	CC	INTRON	id100317	Unknown function
SNP_35333_A_17868162	NC_021164.1	Ca_Kabuli_Chr05	17868162	TT	CC	CC	INTRON	id100317	Unknown function
SNP_35334_A_17868190	NC_021164.1	Ca_Kabuli_Chr05	17868190	AA	CC	CC	INTRON	id100317	Unknown function
SNP_35335_A_17868231	NC_021164.1	Ca_Kabuli_Chr05	17868231	CC	AA	AA	INTRON	id100317	Unknown function
SNP_35336_A_17868931	NC_021164.1	Ca_Kabuli_Chr05	17868931	AA	GG	GG	INTRON	id100317	Unknown function
SNP_35337_A_17874796	NC_021164.1	Ca_Kabuli_Chr05	17874796	CC	GG	GG	INTRON	id100317	Unknown function
SNP_35338_A_17876433	NC_021164.1	Ca_Kabuli_Chr05	17876433	GG	AA	AA	SYNONYMOUS_CODING	id100317	Unknown function
SNP_35340_A_17876580	NC_021164.1	Ca_Kabuli_Chr05	17876580	GG	TT	TT	URR	101504268	Unknown function
SNP_35341_A_17876611	NC_021164.1	Ca_Kabuli_Chr05	17876611	TT	AA	AA	URR	101504268	Unknown function
SNP_35343_A_17899727	NC_021164.1	Ca_Kabuli_Chr05	17899727	AA	TT	TT	INTERGENIC		
SNP_35344_A_17899737	NC_021164.1	Ca_Kabuli_Chr05	17899737	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35345_A_17900074	NC_021164.1	Ca_Kabuli_Chr05	17900074	AA	TT	TT	INTERGENIC		
SNP_35346_A_17900091	NC_021164.1	Ca_Kabuli_Chr05	17900091	CC	TT	TT	INTERGENIC		
SNP_35347_A_17987711	NC_021164.1	Ca_Kabuli_Chr05	17987711	AA	CC	CC	INTERGENIC		
SNP_35348_A_18003629	NC_021164.1	Ca_Kabuli_Chr05	18003629	GG	AA	AA	INTERGENIC		
SNP_35350_A_18062620	NC_021164.1	Ca_Kabuli_Chr05	18062620	CC	TT	TT	DRR	101509081	uncharacterized LOC101509081
SNP_35351_A_18078809	NC_021164.1	Ca_Kabuli_Chr05	18078809	AA	CC	CC	INTERGENIC		
SNP_35352_A_18078976	NC_021164.1	Ca_Kabuli_Chr05	18078976	GG	TT	TT	INTERGENIC		
SNP_35353_A_18079120	NC_021164.1	Ca_Kabuli_Chr05	18079120	CC	TT	TT	INTERGENIC		
SNP_35354_A_18079206	NC_021164.1	Ca_Kabuli_Chr05	18079206	GG	AA	AA	INTERGENIC		
SNP_35355_A_18111420	NC_021164.1	Ca_Kabuli_Chr05	18111420	AA	GG	GG	INTERGENIC		
SNP_35356_A_18111431	NC_021164.1	Ca_Kabuli_Chr05	18111431	AA	GG	GG	INTERGENIC		
SNP_35357_A_18111447	NC_021164.1	Ca_Kabuli_Chr05	18111447	AA	CC	CC	INTERGENIC		
SNP_35358_A_18111697	NC_021164.1	Ca_Kabuli_Chr05	18111697	AA	GG	GG	INTERGENIC		
SNP_35360_A_18126697	NC_021164.1	Ca_Kabuli_Chr05	18126697	GG	CC	CC	INTERGENIC		
SNP_35361_A_18127054	NC_021164.1	Ca_Kabuli_Chr05	18127054	AA	GG	GG	INTERGENIC		
SNP_35362_A_18127075	NC_021164.1	Ca_Kabuli_Chr05	18127075	TT	CC	CC	INTERGENIC		
SNP_35363_A_18127091	NC_021164.1	Ca_Kabuli_Chr05	18127091	TT	GG	GG	INTERGENIC		
SNP_35364_A_18136075	NC_021164.1	Ca_Kabuli_Chr05	18136075	TT	CC	CC	INTERGENIC		
SNP_35366_A_18167755	NC_021164.1	Ca_Kabuli_Chr05	18167755	AA	CC	CC	INTRON	101505882	structural maintenance of chromosomes protein 5
SNP_35367_A_18167757	NC_021164.1	Ca_Kabuli_Chr05	18167757	AA	CC	CC	INTRON	101505882	structural maintenance of chromosomes protein 5
SNP_35370_A_18201657	NC_021164.1	Ca_Kabuli_Chr05	18201657	CC	TT	TT	INTERGENIC		
SNP_35371_A_18209981	NC_021164.1	Ca_Kabuli_Chr05	18209981	AA	GG	GG	NON_SYNONYMOUS_CODING	101510382	proline-rich receptor-like protein kinase PERK9

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35372_A_18210001	NC_021164.1	Ca_Kabuli_Chr05	18210001	AA	GG	GG	NON_SYNONYMOUS_CODING	101510382	proline-rich receptor-like protein kinase PERK9
SNP_35373_A_18233194	NC_021164.1	Ca_Kabuli_Chr05	18233194	TT	CC	CC	INTRON	101510710	uncharacterized LOC101510710
SNP_35374_A_18280514	NC_021164.1	Ca_Kabuli_Chr05	18280514	AA	TT	TT	INTERGENIC		
SNP_35375_A_18280655	NC_021164.1	Ca_Kabuli_Chr05	18280655	GG	AA	AA	INTERGENIC		
SNP_35376_A_18282835	NC_021164.1	Ca_Kabuli_Chr05	18282835	TT	CC	CC	INTERGENIC		
SNP_35377_A_18282849	NC_021164.1	Ca_Kabuli_Chr05	18282849	TT	CC	CC	INTERGENIC		
SNP_35378_A_18282873	NC_021164.1	Ca_Kabuli_Chr05	18282873	AA	CC	CC	INTERGENIC		
SNP_35379_A_18282875	NC_021164.1	Ca_Kabuli_Chr05	18282875	TT	GG	GG	INTERGENIC		
SNP_35380_A_18282916	NC_021164.1	Ca_Kabuli_Chr05	18282916	TT	CC	CC	INTERGENIC		
SNP_35381_A_18282944	NC_021164.1	Ca_Kabuli_Chr05	18282944	TT	CC	CC	INTERGENIC		
SNP_35382_A_18282952	NC_021164.1	Ca_Kabuli_Chr05	18282952	CC	TT	TT	INTERGENIC		
SNP_35383_A_18282985	NC_021164.1	Ca_Kabuli_Chr05	18282985	CC	TT	TT	INTERGENIC		
SNP_35384_A_18282988	NC_021164.1	Ca_Kabuli_Chr05	18282988	GG	AA	AA	INTERGENIC		
SNP_35385_A_18282997	NC_021164.1	Ca_Kabuli_Chr05	18282997	TT	CC	CC	INTERGENIC		
SNP_35386_A_18283009	NC_021164.1	Ca_Kabuli_Chr05	18283009	GG	AA	AA	INTERGENIC		
SNP_35387_A_18283197	NC_021164.1	Ca_Kabuli_Chr05	18283197	TT	CC	CC	INTERGENIC		
SNP_35388_A_18283237	NC_021164.1	Ca_Kabuli_Chr05	18283237	AA	GG	GG	INTERGENIC		
SNP_35389_A_18285826	NC_021164.1	Ca_Kabuli_Chr05	18285826	CC	TT	TT	INTERGENIC		
SNP_35390_A_18286181	NC_021164.1	Ca_Kabuli_Chr05	18286181	TT	CC	CC	INTERGENIC		
SNP_35391_A_18290490	NC_021164.1	Ca_Kabuli_Chr05	18290490	TT	AA	AA	INTERGENIC		
SNP_35393_A_18314132	NC_021164.1	Ca_Kabuli_Chr05	18314132	CC	TT	TT	INTERGENIC		
SNP_35394_A_18318680	NC_021164.1	Ca_Kabuli_Chr05	18318680	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35395_A_18318702	NC_021164.1	Ca_Kabuli_Chr05	18318702	TT	CC	CC	INTERGENIC			
SNP_35396_A_18318709	NC_021164.1	Ca_Kabuli_Chr05	18318709	AA	GG	GG	INTERGENIC			
SNP_35397_A_18319890	NC_021164.1	Ca_Kabuli_Chr05	18319890	AA	GG	GG	INTERGENIC			
SNP_35398_A_18320214	NC_021164.1	Ca_Kabuli_Chr05	18320214	GG	AA	AA	INTERGENIC			
SNP_35399_A_18320280	NC_021164.1	Ca_Kabuli_Chr05	18320280	AA	GG	GG	INTERGENIC			
SNP_35400_A_18320355	NC_021164.1	Ca_Kabuli_Chr05	18320355	TT	GG	GG	INTERGENIC			
SNP_35401_A_18325448	NC_021164.1	Ca_Kabuli_Chr05	18325448	TT	CC	CC	INTERGENIC			
SNP_35402_A_18365592	NC_021164.1	Ca_Kabuli_Chr05	18365592	AA	GG	GG	INTRON	101508141		alpha-N-acetylglucosaminidase
SNP_35404_A_18531745	NC_021164.1	Ca_Kabuli_Chr05	18531745	CC	AA	AA	INTERGENIC			
SNP_35406_A_18590368	NC_021164.1	Ca_Kabuli_Chr05	18590368	TT	AA	AA	INTERGENIC			
SNP_35407_A_18590395	NC_021164.1	Ca_Kabuli_Chr05	18590395	TT	AA	AA	INTERGENIC			
SNP_35408_A_18590692	NC_021164.1	Ca_Kabuli_Chr05	18590692	CC	TT	TT	INTERGENIC			
SNP_35409_A_18590738	NC_021164.1	Ca_Kabuli_Chr05	18590738	AA	GG	GG	INTERGENIC			
SNP_35410_A_18590750	NC_021164.1	Ca_Kabuli_Chr05	18590750	TT	CC	CC	INTERGENIC			
SNP_35411_A_18592979	NC_021164.1	Ca_Kabuli_Chr05	18592979	AA	GG	GG	INTERGENIC			
SNP_35412_A_18593104	NC_021164.1	Ca_Kabuli_Chr05	18593104	AA	GG	GG	INTERGENIC			
SNP_35413_A_18593110	NC_021164.1	Ca_Kabuli_Chr05	18593110	AA	GG	GG	INTERGENIC			
SNP_35414_A_18593141	NC_021164.1	Ca_Kabuli_Chr05	18593141	AA	GG	GG	INTERGENIC			
SNP_35415_A_18593146	NC_021164.1	Ca_Kabuli_Chr05	18593146	AA	GG	GG	INTERGENIC			
SNP_35416_A_18593178	NC_021164.1	Ca_Kabuli_Chr05	18593178	TT	GG	GG	INTERGENIC			
SNP_35417_A_18593202	NC_021164.1	Ca_Kabuli_Chr05	18593202	AA	GG	GG	INTERGENIC			
SNP_35418_A_18593223	NC_021164.1	Ca_Kabuli_Chr05	18593223	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35419_A_18593365	NC_021164.1	Ca_Kabuli_Chr05	18593365	GG	AA	AA	INTERGENIC			
SNP_35420_A_18593383	NC_021164.1	Ca_Kabuli_Chr05	18593383	GG	TT	TT	INTERGENIC			
SNP_35421_A_18593642	NC_021164.1	Ca_Kabuli_Chr05	18593642	GG	AA	AA	INTERGENIC			
SNP_35422_A_18593649	NC_021164.1	Ca_Kabuli_Chr05	18593649	GG	CC	CC	INTERGENIC			
SNP_35423_A_18593830	NC_021164.1	Ca_Kabuli_Chr05	18593830	GG	AA	AA	INTERGENIC			
SNP_35424_A_18593932	NC_021164.1	Ca_Kabuli_Chr05	18593932	AA	GG	GG	INTERGENIC			
SNP_35425_A_18593958	NC_021164.1	Ca_Kabuli_Chr05	18593958	AA	GG	GG	INTERGENIC			
SNP_35426_A_18593960	NC_021164.1	Ca_Kabuli_Chr05	18593960	GG	TT	TT	INTERGENIC			
SNP_35427_A_18594132	NC_021164.1	Ca_Kabuli_Chr05	18594132	GG	TT	TT	INTERGENIC			
SNP_35428_A_18594303	NC_021164.1	Ca_Kabuli_Chr05	18594303	AA	TT	TT	INTERGENIC			
SNP_35429_A_18678592	NC_021164.1	Ca_Kabuli_Chr05	18678592	TT	GG	GG	URR	101489841	Unknown function	
SNP_35430_A_18678615	NC_021164.1	Ca_Kabuli_Chr05	18678615	TT	CC	CC	URR	101489841	Unknown function	
SNP_35431_A_18678649	NC_021164.1	Ca_Kabuli_Chr05	18678649	AA	GG	GG	URR	101489841	Unknown function	
SNP_35432_A_18678701	NC_021164.1	Ca_Kabuli_Chr05	18678701	AA	CC	CC	URR	101489841	Unknown function	
SNP_35433_A_18678703	NC_021164.1	Ca_Kabuli_Chr05	18678703	GG	CC	CC	URR	101489841	Unknown function	
SNP_35434_A_18678736	NC_021164.1	Ca_Kabuli_Chr05	18678736	AA	CC	CC	URR	101489841	Unknown function	
SNP_35435_A_18679655	NC_021164.1	Ca_Kabuli_Chr05	18679655	AA	GG	GG	URR	101489841	Unknown function	
SNP_35436_A_18679660	NC_021164.1	Ca_Kabuli_Chr05	18679660	GG	CC	CC	URR	101489841	Unknown function	
SNP_35437_A_18679730	NC_021164.1	Ca_Kabuli_Chr05	18679730	TT	CC	CC	URR	101489841	Unknown function	
SNP_35438_A_18679734	NC_021164.1	Ca_Kabuli_Chr05	18679734	AA	CC	CC	URR	101489841	Unknown function	
SNP_35439_A_18683047	NC_021164.1	Ca_Kabuli_Chr05	18683047	GG	CC	CC	INTERGENIC			
SNP_35440_A_18683064	NC_021164.1	Ca_Kabuli_Chr05	18683064	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35441_A_18683067	NC_021164.1	Ca_Kabuli_Chr05	18683067	AA	GG	GG	INTERGENIC		
SNP_35442_A_18683174	NC_021164.1	Ca_Kabuli_Chr05	18683174	AA	GG	GG	NON_SYNONYMOUS_CODING	id100502	Unknown function
SNP_35444_A_18683922	NC_021164.1	Ca_Kabuli_Chr05	18683922	AA	TT	TT	NON_SYNONYMOUS_CODING	id100502	Unknown function
SNP_35445_A_18683950	NC_021164.1	Ca_Kabuli_Chr05	18683950	TT	CC	CC	NON_SYNONYMOUS_CODING	id100502	Unknown function
SNP_35446_A_18694562	NC_021164.1	Ca_Kabuli_Chr05	18694562	AA	GG	GG	INTERGENIC		
SNP_35447_A_18694592	NC_021164.1	Ca_Kabuli_Chr05	18694592	CC	TT	TT	INTERGENIC		
SNP_35448_A_18694638	NC_021164.1	Ca_Kabuli_Chr05	18694638	CC	TT	TT	INTERGENIC		
SNP_35449_A_18794060	NC_021164.1	Ca_Kabuli_Chr05	18794060	AA	GG	GG	INTERGENIC		
SNP_35450_A_18794069	NC_021164.1	Ca_Kabuli_Chr05	18794069	AA	GG	GG	INTERGENIC		
SNP_35451_A_18794114	NC_021164.1	Ca_Kabuli_Chr05	18794114	GG	AA	AA	INTERGENIC		
SNP_35452_A_18794162	NC_021164.1	Ca_Kabuli_Chr05	18794162	TT	CC	CC	INTERGENIC		
SNP_35453_A_18820952	NC_021164.1	Ca_Kabuli_Chr05	18820952	TT	AA	AA	URR	101490170	uncharacterized LOC101490170
SNP_35454_A_18831778	NC_021164.1	Ca_Kabuli_Chr05	18831778	AA	CC	CC	INTERGENIC		
SNP_35455_A_18831787	NC_021164.1	Ca_Kabuli_Chr05	18831787	GG	AA	AA	INTERGENIC		
SNP_35456_A_18834783	NC_021164.1	Ca_Kabuli_Chr05	18834783	TT	GG	GG	INTERGENIC		
SNP_35457_A_18834908	NC_021164.1	Ca_Kabuli_Chr05	18834908	CC	AA	AA	INTERGENIC		
SNP_35458_A_18846053	NC_021164.1	Ca_Kabuli_Chr05	18846053	AA	GG	GG	INTERGENIC		
SNP_35459_A_18846111	NC_021164.1	Ca_Kabuli_Chr05	18846111	AA	GG	GG	INTERGENIC		
SNP_35460_A_18846112	NC_021164.1	Ca_Kabuli_Chr05	18846112	AA	GG	GG	INTERGENIC		
SNP_35461_A_18869478	NC_021164.1	Ca_Kabuli_Chr05	18869478	TT	GG	GG	INTERGENIC		
SNP_35462_A_18923780	NC_021164.1	Ca_Kabuli_Chr05	18923780	AA	GG	GG	INTERGENIC		
SNP_35463_A_18923834	NC_021164.1	Ca_Kabuli_Chr05	18923834	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35464_A_18944209	NC_021164.1	Ca_Kabuli_Chr05	18944209	CC	TT	TT	INTERGENIC			
SNP_35465_A_18944273	NC_021164.1	Ca_Kabuli_Chr05	18944273	GG	AA	AA	INTERGENIC			
SNP_35466_A_18944292	NC_021164.1	Ca_Kabuli_Chr05	18944292	AA	TT	TT	INTERGENIC			
SNP_35467_A_18944547	NC_021164.1	Ca_Kabuli_Chr05	18944547	GG	CC	CC	INTERGENIC			
SNP_35468_A_18944571	NC_021164.1	Ca_Kabuli_Chr05	18944571	AA	TT	TT	INTERGENIC			
SNP_35470_A_18945599	NC_021164.1	Ca_Kabuli_Chr05	18945599	GG	AA	AA	INTERGENIC			
SNP_35471_A_19306189	NC_021164.1	Ca_Kabuli_Chr05	19306189	CC	AA	AA	INTERGENIC			
SNP_35472_A_19331809	NC_021164.1	Ca_Kabuli_Chr05	19331809	TT	CC	CC	INTERGENIC			
SNP_35474_A_19375029	NC_021164.1	Ca_Kabuli_Chr05	19375029	CC	TT	TT	INTERGENIC			
SNP_35475_A_19375034	NC_021164.1	Ca_Kabuli_Chr05	19375034	GG	AA	AA	INTERGENIC			
SNP_35476_A_19375035	NC_021164.1	Ca_Kabuli_Chr05	19375035	CC	TT	TT	INTERGENIC			
SNP_35477_A_19375042	NC_021164.1	Ca_Kabuli_Chr05	19375042	CC	AA	AA	INTERGENIC			
SNP_35478_A_19375062	NC_021164.1	Ca_Kabuli_Chr05	19375062	CC	TT	TT	INTERGENIC			
SNP_35479_A_19375063	NC_021164.1	Ca_Kabuli_Chr05	19375063	AA	CC	CC	INTERGENIC			
SNP_35480_A_19385951	NC_021164.1	Ca_Kabuli_Chr05	19385951	CC	TT	TT	INTERGENIC			
SNP_35481_A_19386391	NC_021164.1	Ca_Kabuli_Chr05	19386391	CC	AA	TT	INTERGENIC			
SNP_35482_A_19386493	NC_021164.1	Ca_Kabuli_Chr05	19386493	TT	CC	CC	INTERGENIC			
SNP_35483_A_19386643	NC_021164.1	Ca_Kabuli_Chr05	19386643	AA	GG	GG	INTERGENIC			
SNP_35484_A_19386704	NC_021164.1	Ca_Kabuli_Chr05	19386704	TT	GG	GG	INTERGENIC			
SNP_35485_A_19386920	NC_021164.1	Ca_Kabuli_Chr05	19386920	CC	TT	TT	INTERGENIC			
SNP_35487_A_19399641	NC_021164.1	Ca_Kabuli_Chr05	19399641	GG	AA	AA	INTERGENIC			
SNP_35488_A_19442031	NC_021164.1	Ca_Kabuli_Chr05	19442031	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35489_A_19477902	NC_021164.1	Ca_Kabuli_Chr05	19477902	AA	GG	GG	INTERGENIC		
SNP_35490_A_19478219	NC_021164.1	Ca_Kabuli_Chr05	19478219	TT	AA	AA	INTERGENIC		
SNP_35491_A_19478393	NC_021164.1	Ca_Kabuli_Chr05	19478393	AA	GG	GG	INTERGENIC		
SNP_35493_A_19482511	NC_021164.1	Ca_Kabuli_Chr05	19482511	AA	GG	GG	INTERGENIC		
SNP_35494_A_19497458	NC_021164.1	Ca_Kabuli_Chr05	19497458	AA	GG	GG	INTERGENIC		
SNP_35495_A_19498200	NC_021164.1	Ca_Kabuli_Chr05	19498200	CC	AA	AA	INTERGENIC		
SNP_35496_A_19498331	NC_021164.1	Ca_Kabuli_Chr05	19498331	GG	TT	TT	INTERGENIC		
SNP_35497_A_19498692	NC_021164.1	Ca_Kabuli_Chr05	19498692	AA	GG	GG	INTERGENIC		
SNP_35498_A_19531083	NC_021164.1	Ca_Kabuli_Chr05	19531083	AA	GG	GG	INTERGENIC		
SNP_35499_A_19531091	NC_021164.1	Ca_Kabuli_Chr05	19531091	GG	AA	AA	INTERGENIC		
SNP_35500_A_19533871	NC_021164.1	Ca_Kabuli_Chr05	19533871	TT	CC	CC	INTERGENIC		
SNP_35501_A_19533911	NC_021164.1	Ca_Kabuli_Chr05	19533911	CC	GG	GG	INTERGENIC		
SNP_35502_A_19533955	NC_021164.1	Ca_Kabuli_Chr05	19533955	TT	CC	CC	INTERGENIC		
SNP_35503_A_19533992	NC_021164.1	Ca_Kabuli_Chr05	19533992	CC	TT	TT	INTERGENIC		
SNP_35504_A_19534218	NC_021164.1	Ca_Kabuli_Chr05	19534218	CC	TT	TT	INTERGENIC		
SNP_35505_A_19536081	NC_021164.1	Ca_Kabuli_Chr05	19536081	TT	CC	CC	INTERGENIC		
SNP_35506_A_19538882	NC_021164.1	Ca_Kabuli_Chr05	19538882	TT	GG	GG	INTERGENIC		
SNP_35507_A_19544987	NC_021164.1	Ca_Kabuli_Chr05	19544987	GG	TT	TT	NON_SYNONYMOUS_CODING	101494801	Unknown function
SNP_35508_A_19545111	NC_021164.1	Ca_Kabuli_Chr05	19545111	TT	CC	CC	URR	101494801	Unknown function
SNP_35509_A_19545167	NC_021164.1	Ca_Kabuli_Chr05	19545167	AA	CC	CC	URR	101494801	Unknown function
SNP_35510_A_19545177	NC_021164.1	Ca_Kabuli_Chr05	19545177	AA	GG	GG	URR	101494801	Unknown function
SNP_35511_A_19545525	NC_021164.1	Ca_Kabuli_Chr05	19545525	TT	CC	CC	URR	101494801	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35513_A_19590084	NC_021164.1	Ca_Kabuli_Chr05	19590084	TT	CC	CC	INTERGENIC			
SNP_35514_A_19590149	NC_021164.1	Ca_Kabuli_Chr05	19590149	GG	TT	TT	INTERGENIC			
SNP_35515_A_19590673	NC_021164.1	Ca_Kabuli_Chr05	19590673	TT	CC	CC	INTERGENIC			
SNP_35516_A_19590750	NC_021164.1	Ca_Kabuli_Chr05	19590750	GG	TT	TT	INTERGENIC			
SNP_35517_A_19590759	NC_021164.1	Ca_Kabuli_Chr05	19590759	TT	CC	CC	INTERGENIC			
SNP_35518_A_19590856	NC_021164.1	Ca_Kabuli_Chr05	19590856	AA	TT	TT	INTERGENIC			
SNP_35519_A_19591054	NC_021164.1	Ca_Kabuli_Chr05	19591054	TT	AA	AA	INTERGENIC			
SNP_35520_A_19591147	NC_021164.1	Ca_Kabuli_Chr05	19591147	TT	CC	CC	INTERGENIC			
SNP_35521_A_19591156	NC_021164.1	Ca_Kabuli_Chr05	19591156	TT	AA	AA	INTERGENIC			
SNP_35523_A_19610964	NC_021164.1	Ca_Kabuli_Chr05	19610964	AA	CC	CC	INTERGENIC			
SNP_35524_A_19667587	NC_021164.1	Ca_Kabuli_Chr05	19667587	GG	TT	TT	INTERGENIC			
SNP_35525_A_19667626	NC_021164.1	Ca_Kabuli_Chr05	19667626	AA	GG	GG	INTERGENIC			
SNP_35526_A_19668690	NC_021164.1	Ca_Kabuli_Chr05	19668690	CC	TT	TT	INTERGENIC			
SNP_35527_A_19702828	NC_021164.1	Ca_Kabuli_Chr05	19702828	GG	AA	AA	INTERGENIC			
SNP_35528_A_19703017	NC_021164.1	Ca_Kabuli_Chr05	19703017	GG	AA	AA	INTERGENIC			
SNP_35529_A_19725589	NC_021164.1	Ca_Kabuli_Chr05	19725589	AA	GG	GG	INTERGENIC			
SNP_35530_A_19725685	NC_021164.1	Ca_Kabuli_Chr05	19725685	CC	TT	TT	INTERGENIC			
SNP_35531_A_19725706	NC_021164.1	Ca_Kabuli_Chr05	19725706	TT	CC	CC	INTERGENIC			
SNP_35532_A_19725708	NC_021164.1	Ca_Kabuli_Chr05	19725708	AA	GG	GG	INTERGENIC			
SNP_35533_A_19725742	NC_021164.1	Ca_Kabuli_Chr05	19725742	TT	GG	GG	INTERGENIC			
SNP_35534_A_19725958	NC_021164.1	Ca_Kabuli_Chr05	19725958	GG	TT	TT	INTERGENIC			
SNP_35535_A_19725982	NC_021164.1	Ca_Kabuli_Chr05	19725982	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35536_A_19726114	NC_021164.1	Ca_Kabuli_Chr05	19726114	GG	AA	AA	INTERGENIC			
SNP_35537_A_19726832	NC_021164.1	Ca_Kabuli_Chr05	19726832	AA	GG	GG	INTERGENIC			
SNP_35538_A_19727203	NC_021164.1	Ca_Kabuli_Chr05	19727203	CC	TT	TT	INTERGENIC			
SNP_35539_A_19729692	NC_021164.1	Ca_Kabuli_Chr05	19729692	GG	AA	AA	INTERGENIC			
SNP_35540_A_19729737	NC_021164.1	Ca_Kabuli_Chr05	19729737	AA	TT	TT	INTERGENIC			
SNP_35541_A_19729740	NC_021164.1	Ca_Kabuli_Chr05	19729740	TT	CC	CC	INTERGENIC			
SNP_35542_A_19729743	NC_021164.1	Ca_Kabuli_Chr05	19729743	GG	AA	AA	INTERGENIC			
SNP_35543_A_19729747	NC_021164.1	Ca_Kabuli_Chr05	19729747	CC	TT	TT	INTERGENIC			
SNP_35544_A_19729749	NC_021164.1	Ca_Kabuli_Chr05	19729749	GG	AA	AA	INTERGENIC			
SNP_35545_A_19729785	NC_021164.1	Ca_Kabuli_Chr05	19729785	CC	TT	TT	INTERGENIC			
SNP_35546_A_19740875	NC_021164.1	Ca_Kabuli_Chr05	19740875	GG	CC	CC	INTERGENIC			
SNP_35547_A_19740877	NC_021164.1	Ca_Kabuli_Chr05	19740877	TT	GG	GG	INTERGENIC			
SNP_35548_A_19740945	NC_021164.1	Ca_Kabuli_Chr05	19740945	AA	CC	CC	INTERGENIC			
SNP_35550_A_19777085	NC_021164.1	Ca_Kabuli_Chr05	19777085	AA	CC	CC	INTERGENIC			
SNP_35551_A_19814550	NC_021164.1	Ca_Kabuli_Chr05	19814550	CC	AA	AA	INTERGENIC			
SNP_35553_A_19824306	NC_021164.1	Ca_Kabuli_Chr05	19824306	TT	CC	CC	INTERGENIC			
SNP_35554_A_19830784	NC_021164.1	Ca_Kabuli_Chr05	19830784	GG	AA	AA	INTERGENIC			
SNP_35555_A_19830806	NC_021164.1	Ca_Kabuli_Chr05	19830806	TT	CC	CC	INTERGENIC			
SNP_35556_A_19830985	NC_021164.1	Ca_Kabuli_Chr05	19830985	GG	AA	AA	INTERGENIC			
SNP_35557_A_19830997	NC_021164.1	Ca_Kabuli_Chr05	19830997	GG	AA	AA	INTERGENIC			
SNP_35559_A_19908926	NC_021164.1	Ca_Kabuli_Chr05	19908926	AA	CC	CC	INTERGENIC			
SNP_35560_A_19908957	NC_021164.1	Ca_Kabuli_Chr05	19908957	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35561_A_19910123	NC_021164.1	Ca_Kabuli_Chr05	19910123	AA	CC	CC	INTERGENIC		
SNP_35562_A_19914314	NC_021164.1	Ca_Kabuli_Chr05	19914314	AA	GG	GG	INTERGENIC		
SNP_35563_A_19914397	NC_021164.1	Ca_Kabuli_Chr05	19914397	AA	GG	GG	INTERGENIC		
SNP_35564_A_19914504	NC_021164.1	Ca_Kabuli_Chr05	19914504	GG	CC	CC	INTERGENIC		
SNP_35565_A_19914536	NC_021164.1	Ca_Kabuli_Chr05	19914536	TT	CC	CC	INTERGENIC		
SNP_35568_A_19914599	NC_021164.1	Ca_Kabuli_Chr05	19914599	CC	TT	TT	INTERGENIC		
SNP_35569_A_19914602	NC_021164.1	Ca_Kabuli_Chr05	19914602	GG	AA	AA	INTERGENIC		
SNP_35570_A_19914604	NC_021164.1	Ca_Kabuli_Chr05	19914604	CC	TT	TT	INTERGENIC		
SNP_35571_A_19914611	NC_021164.1	Ca_Kabuli_Chr05	19914611	TT	AA	AA	INTERGENIC		
SNP_35572_A_19922129	NC_021164.1	Ca_Kabuli_Chr05	19922129	AA	GG	GG	INTERGENIC		
SNP_35573_A_19922157	NC_021164.1	Ca_Kabuli_Chr05	19922157	TT	CC	CC	INTERGENIC		
SNP_35574_A_19922292	NC_021164.1	Ca_Kabuli_Chr05	19922292	TT	CC	CC	INTERGENIC		
SNP_35576_A_19922350	NC_021164.1	Ca_Kabuli_Chr05	19922350	GG	TT	TT	INTERGENIC		
SNP_35577_A_19922486	NC_021164.1	Ca_Kabuli_Chr05	19922486	AA	GG	GG	INTERGENIC		
SNP_35578_A_19922498	NC_021164.1	Ca_Kabuli_Chr05	19922498	TT	AA	AA	INTERGENIC		
SNP_35579_A_19922550	NC_021164.1	Ca_Kabuli_Chr05	19922550	TT	CC	CC	INTERGENIC		
SNP_35580_A_19945887	NC_021164.1	Ca_Kabuli_Chr05	19945887	GG	TT	TT	INTERGENIC		
SNP_35581_A_19957218	NC_021164.1	Ca_Kabuli_Chr05	19957218	TT	AA	AA	INTRON	101498948	cytochrome b561 domain-containing protein At2g30890-like
SNP_35582_A_19961222	NC_021164.1	Ca_Kabuli_Chr05	19961222	TT	AA	AA	URR	101498948	cytochrome b561 domain-containing protein At2g30890-like
SNP_35583_A_19998061	NC_021164.1	Ca_Kabuli_Chr05	19998061	CC	TT	TT	DRR	101503075	uncharacterized LOC101503075
SNP_35584_A_19998317	NC_021164.1	Ca_Kabuli_Chr05	19998317	TT	CC	CC	DRR	101503075	uncharacterized LOC101503075
SNP_35585_A_20017774	NC_021164.1	Ca_Kabuli_Chr05	20017774	GG	AA	AA	DRR	101500232	callose synthase 7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35586_A_20064854	NC_021164.1	Ca_Kabuli_Chr05	20064854	GG	AA	AA	INTERGENIC		
SNP_35587_A_20072763	NC_021164.1	Ca_Kabuli_Chr05	20072763	AA	GG	GG	INTERGENIC		
SNP_35588_A_20072765	NC_021164.1	Ca_Kabuli_Chr05	20072765	TT	CC	CC	INTERGENIC		
SNP_35589_A_20074004	NC_021164.1	Ca_Kabuli_Chr05	20074004	TT	CC	CC	INTERGENIC		
SNP_35590_A_20074263	NC_021164.1	Ca_Kabuli_Chr05	20074263	CC	AA	AA	INTERGENIC		
SNP_35591_A_20074517	NC_021164.1	Ca_Kabuli_Chr05	20074517	GG	AA	AA	INTERGENIC		
SNP_35592_A_20074622	NC_021164.1	Ca_Kabuli_Chr05	20074622	TT	CC	CC	INTERGENIC		
SNP_35594_A_20305040	NC_021164.1	Ca_Kabuli_Chr05	20305040	GG	AA	AA	INTERGENIC		
SNP_35595_A_20373417	NC_021164.1	Ca_Kabuli_Chr05	20373417	CC	AA	AA	INTERGENIC		
SNP_35596_A_20373608	NC_021164.1	Ca_Kabuli_Chr05	20373608	CC	AA	AA	INTERGENIC		
SNP_35597_A_20374583	NC_021164.1	Ca_Kabuli_Chr05	20374583	AA	CC	CC	DRR	101505681	uncharacterized LOC101505681
SNP_35598_A_20374586	NC_021164.1	Ca_Kabuli_Chr05	20374586	TT	CC	CC	DRR	101505681	uncharacterized LOC101505681
SNP_35599_A_20374601	NC_021164.1	Ca_Kabuli_Chr05	20374601	TT	CC	CC	DRR	101505681	uncharacterized LOC101505681
SNP_35600_A_20374674	NC_021164.1	Ca_Kabuli_Chr05	20374674	TT	CC	CC	DRR	101505681	uncharacterized LOC101505681
SNP_35601_A_20374678	NC_021164.1	Ca_Kabuli_Chr05	20374678	CC	TT	TT	DRR	101505681	uncharacterized LOC101505681
SNP_35602_A_20374936	NC_021164.1	Ca_Kabuli_Chr05	20374936	TT	GG	GG	DRR	101505681	uncharacterized LOC101505681
SNP_35603_A_20374944	NC_021164.1	Ca_Kabuli_Chr05	20374944	GG	AA	AA	DRR	101505681	uncharacterized LOC101505681
SNP_35604_A_20378406	NC_021164.1	Ca_Kabuli_Chr05	20378406	GG	TT	TT	INTERGENIC		
SNP_35605_A_20378461	NC_021164.1	Ca_Kabuli_Chr05	20378461	GG	TT	TT	INTERGENIC		
SNP_35606_A_20392750	NC_021164.1	Ca_Kabuli_Chr05	20392750	CC	TT	TT	INTERGENIC		
SNP_35607_A_20394342	NC_021164.1	Ca_Kabuli_Chr05	20394342	TT	GG	GG	INTERGENIC		
SNP_35608_A_20394374	NC_021164.1	Ca_Kabuli_Chr05	20394374	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35609_A_20394377	NC_021164.1	Ca_Kabuli_Chr05	20394377	AA	GG	GG	INTERGENIC			
SNP_35610_A_20394386	NC_021164.1	Ca_Kabuli_Chr05	20394386	AA	CC	CC	INTERGENIC			
SNP_35611_A_20394645	NC_021164.1	Ca_Kabuli_Chr05	20394645	AA	GG	GG	INTERGENIC			
SNP_35612_A_20394651	NC_021164.1	Ca_Kabuli_Chr05	20394651	GG	CC	CC	INTERGENIC			
SNP_35613_A_20394662	NC_021164.1	Ca_Kabuli_Chr05	20394662	TT	AA	AA	INTERGENIC			
SNP_35614_A_20394674	NC_021164.1	Ca_Kabuli_Chr05	20394674	TT	GG	GG	INTERGENIC			
SNP_35615_A_20394694	NC_021164.1	Ca_Kabuli_Chr05	20394694	CC	TT	TT	INTERGENIC			
SNP_35616_A_20394717	NC_021164.1	Ca_Kabuli_Chr05	20394717	TT	CC	CC	INTERGENIC			
SNP_35617_A_20398248	NC_021164.1	Ca_Kabuli_Chr05	20398248	CC	AA	AA	INTERGENIC			
SNP_35618_A_20398261	NC_021164.1	Ca_Kabuli_Chr05	20398261	TT	AA	AA	INTERGENIC			
SNP_35619_A_20398289	NC_021164.1	Ca_Kabuli_Chr05	20398289	GG	AA	AA	INTERGENIC			
SNP_35620_A_20406334	NC_021164.1	Ca_Kabuli_Chr05	20406334	GG	TT	TT	INTERGENIC			
SNP_35621_A_20406364	NC_021164.1	Ca_Kabuli_Chr05	20406364	TT	GG	GG	INTERGENIC			
SNP_35622_A_20406370	NC_021164.1	Ca_Kabuli_Chr05	20406370	TT	GG	GG	INTERGENIC			
SNP_35623_A_20411012	NC_021164.1	Ca_Kabuli_Chr05	20411012	AA	TT	TT	INTERGENIC			
SNP_35625_A_20433138	NC_021164.1	Ca_Kabuli_Chr05	20433138	TT	CC	CC	INTERGENIC			
SNP_35626_A_20433227	NC_021164.1	Ca_Kabuli_Chr05	20433227	TT	AA	AA	INTERGENIC			
SNP_35627_A_20433559	NC_021164.1	Ca_Kabuli_Chr05	20433559	AA	GG	GG	INTERGENIC			
SNP_35628_A_20433864	NC_021164.1	Ca_Kabuli_Chr05	20433864	AA	CC	CC	INTERGENIC			
SNP_35629_A_20433926	NC_021164.1	Ca_Kabuli_Chr05	20433926	AA	GG	GG	INTERGENIC			
SNP_35630_A_20434667	NC_021164.1	Ca_Kabuli_Chr05	20434667	CC	AA	AA	INTERGENIC			
SNP_35631_A_20439812	NC_021164.1	Ca_Kabuli_Chr05	20439812	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35632_A_20453168	NC_021164.1	Ca_Kabuli_Chr05	20453168	CC	TT	TT	INTERGENIC			
SNP_35633_A_20454320	NC_021164.1	Ca_Kabuli_Chr05	20454320	TT	CC	CC	INTERGENIC			
SNP_35634_A_20454329	NC_021164.1	Ca_Kabuli_Chr05	20454329	AA	GG	GG	INTERGENIC			
SNP_35635_A_20454386	NC_021164.1	Ca_Kabuli_Chr05	20454386	CC	TT	TT	INTERGENIC			
SNP_35636_A_20454388	NC_021164.1	Ca_Kabuli_Chr05	20454388	CC	TT	TT	INTERGENIC			
SNP_35638_A_20520638	NC_021164.1	Ca_Kabuli_Chr05	20520638	AA	GG	GG	INTERGENIC			
SNP_35639_A_20520673	NC_021164.1	Ca_Kabuli_Chr05	20520673	CC	TT	TT	INTERGENIC			
SNP_35640_A_20547265	NC_021164.1	Ca_Kabuli_Chr05	20547265	GG	TT	TT	INTERGENIC			
SNP_35642_A_20547373	NC_021164.1	Ca_Kabuli_Chr05	20547373	GG	AA	AA	INTERGENIC			
SNP_35643_A_20547724	NC_021164.1	Ca_Kabuli_Chr05	20547724	AA	GG	GG	INTERGENIC			
SNP_35644_A_20547725	NC_021164.1	Ca_Kabuli_Chr05	20547725	GG	AA	AA	INTERGENIC			
SNP_35645_A_20547781	NC_021164.1	Ca_Kabuli_Chr05	20547781	CC	AA	AA	INTERGENIC			
SNP_35646_A_20548242	NC_021164.1	Ca_Kabuli_Chr05	20548242	TT	GG	GG	INTERGENIC			
SNP_35647_A_20554208	NC_021164.1	Ca_Kabuli_Chr05	20554208	CC	TT	TT	INTERGENIC			
SNP_35648_A_20562922	NC_021164.1	Ca_Kabuli_Chr05	20562922	GG	AA	AA	INTERGENIC			
SNP_35649_A_20572378	NC_021164.1	Ca_Kabuli_Chr05	20572378	CC	TT	TT	INTERGENIC			
SNP_35650_A_20623962	NC_021164.1	Ca_Kabuli_Chr05	20623962	GG	AA	AA	INTERGENIC			
SNP_35651_A_20627266	NC_021164.1	Ca_Kabuli_Chr05	20627266	TT	CC	CC	INTERGENIC			
SNP_35652_A_20654590	NC_021164.1	Ca_Kabuli_Chr05	20654590	GG	AA	AA	INTERGENIC			
SNP_35653_A_20701061	NC_021164.1	Ca_Kabuli_Chr05	20701061	GG	TT	TT	INTERGENIC			
SNP_35654_A_20701118	NC_021164.1	Ca_Kabuli_Chr05	20701118	TT	GG	GG	INTERGENIC			
SNP_35656_A_20701157	NC_021164.1	Ca_Kabuli_Chr05	20701157	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35657_A_20735568	NC_021164.1	Ca_Kabuli_Chr05	20735568	CC	GG	GG	INTERGENIC		
SNP_35658_A_20738471	NC_021164.1	Ca_Kabuli_Chr05	20738471	GG	AA	AA	INTERGENIC		
SNP_35659_A_20743456	NC_021164.1	Ca_Kabuli_Chr05	20743456	AA	TT	TT	INTERGENIC		
SNP_35662_A_20777377	NC_021164.1	Ca_Kabuli_Chr05	20777377	TT	CC	CC	DRR	101510481	spermidine hydroxycinnamoyl transferase-like
SNP_35663_A_20791653	NC_021164.1	Ca_Kabuli_Chr05	20791653	CC	GG	GG	INTRON	101492216	threonine-tRNA ligase, cytoplasmic-like
SNP_35664_A_20791695	NC_021164.1	Ca_Kabuli_Chr05	20791695	AA	GG	GG	INTRON	101492216	threonine-tRNA ligase, cytoplasmic-like
SNP_35665_A_20814302	NC_021164.1	Ca_Kabuli_Chr05	20814302	TT	GG	GG	NON_SYNONYMOUS_CODING	101510811	protein trichome birefringence-like 43
SNP_35667_A_20856693	NC_021164.1	Ca_Kabuli_Chr05	20856693	TT	CC	CC	INTERGENIC		
SNP_35668_A_20856696	NC_021164.1	Ca_Kabuli_Chr05	20856696	TT	AA	AA	INTERGENIC		
SNP_35669_A_20856701	NC_021164.1	Ca_Kabuli_Chr05	20856701	TT	CC	CC	INTERGENIC		
SNP_35670_A_20856775	NC_021164.1	Ca_Kabuli_Chr05	20856775	TT	CC	CC	INTERGENIC		
SNP_35671_A_20856826	NC_021164.1	Ca_Kabuli_Chr05	20856826	CC	TT	TT	INTERGENIC		
SNP_35672_A_20857019	NC_021164.1	Ca_Kabuli_Chr05	20857019	GG	AA	AA	INTERGENIC		
SNP_35673_A_20857028	NC_021164.1	Ca_Kabuli_Chr05	20857028	TT	GG	GG	INTERGENIC		
SNP_35674_A_20971337	NC_021164.1	Ca_Kabuli_Chr05	20971337	CC	GG	GG	INTERGENIC		
SNP_35675_A_20971389	NC_021164.1	Ca_Kabuli_Chr05	20971389	AA	GG	GG	INTERGENIC		
SNP_35676_A_20971552	NC_021164.1	Ca_Kabuli_Chr05	20971552	AA	CC	CC	INTERGENIC		
SNP_35677_A_20976943	NC_021164.1	Ca_Kabuli_Chr05	20976943	TT	CC	CC	SYNONYMOUS_CODING	Gene_ma15463	Unknown function
SNP_35678_A_20976957	NC_021164.1	Ca_Kabuli_Chr05	20976957	GG	TT	TT	NON_SYNONYMOUS_CODING	Gene_ma15463	Unknown function
SNP_35679_A_21066307	NC_021164.1	Ca_Kabuli_Chr05	21066307	AA	GG	GG	INTERGENIC		
SNP_35680_A_21066317	NC_021164.1	Ca_Kabuli_Chr05	21066317	AA	GG	GG	INTERGENIC		
SNP_35681_A_21066334	NC_021164.1	Ca_Kabuli_Chr05	21066334	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35682_A_21072470	NC_021164.1	Ca_Kabuli_Chr05	21072470	CC	TT	TT	INTERGENIC		
SNP_35684_A_21100438	NC_021164.1	Ca_Kabuli_Chr05	21100438	CC	TT	TT	DRR	101495786	uncharacterized LOC101495786
SNP_35686_A_21116527	NC_021164.1	Ca_Kabuli_Chr05	21116527	GG	AA	AA	INTRON	101496438	uncharacterized LOC101496438
SNP_35687_A_21117105	NC_021164.1	Ca_Kabuli_Chr05	21117105	AA	GG	GG	INTRON	101496438	uncharacterized LOC101496438
SNP_35689_A_21127290	NC_021164.1	Ca_Kabuli_Chr05	21127290	TT	CC	CC	INTERGENIC		
SNP_35690_A_21141391	NC_021164.1	Ca_Kabuli_Chr05	21141391	CC	TT	TT	INTERGENIC		
SNP_35693_A_21224751	NC_021164.1	Ca_Kabuli_Chr05	21224751	AA	CC	CC	INTERGENIC		
SNP_35694_A_21258545	NC_021164.1	Ca_Kabuli_Chr05	21258545	GG	AA	AA	INTERGENIC		
SNP_35695_A_21267551	NC_021164.1	Ca_Kabuli_Chr05	21267551	TT	AA	AA	INTERGENIC		
SNP_35697_A_21284103	NC_021164.1	Ca_Kabuli_Chr05	21284103	CC	TT	TT	INTERGENIC		
SNP_35698_A_21345443	NC_021164.1	Ca_Kabuli_Chr05	21345443	TT	GG	GG	INTERGENIC		
SNP_35700_A_21448692	NC_021164.1	Ca_Kabuli_Chr05	21448692	TT	CC	CC	INTERGENIC		
SNP_35701_A_21498128	NC_021164.1	Ca_Kabuli_Chr05	21498128	TT	AA	AA	URR	101499381	serine/threonine-protein phosphatase 7 long form homolog
SNP_35702_A_21498142	NC_021164.1	Ca_Kabuli_Chr05	21498142	TT	CC	CC	URR	101499381	serine/threonine-protein phosphatase 7 long form homolog
SNP_35703_A_21498147	NC_021164.1	Ca_Kabuli_Chr05	21498147	GG	TT	TT	URR	101499381	serine/threonine-protein phosphatase 7 long form homolog
SNP_35704_A_21498206	NC_021164.1	Ca_Kabuli_Chr05	21498206	AA	TT	TT	URR	101499381	serine/threonine-protein phosphatase 7 long form homolog
SNP_35705_A_21526772	NC_021164.1	Ca_Kabuli_Chr05	21526772	CC	TT	TT	INTERGENIC		
SNP_35706_A_21557498	NC_021164.1	Ca_Kabuli_Chr05	21557498	AA	GG	GG	INTERGENIC		
SNP_35707_A_21559517	NC_021164.1	Ca_Kabuli_Chr05	21559517	CC	GG	GG	INTERGENIC		
SNP_35708_A_21559585	NC_021164.1	Ca_Kabuli_Chr05	21559585	CC	TT	TT	INTERGENIC		
SNP_35709_A_21570025	NC_021164.1	Ca_Kabuli_Chr05	21570025	GG	TT	TT	INTERGENIC		
SNP_35710_A_21577325	NC_021164.1	Ca_Kabuli_Chr05	21577325	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35711_A_21577337	NC_021164.1	Ca_Kabuli_Chr05	21577337	TT	AA	AA	INTERGENIC			
SNP_35712_A_21597910	NC_021164.1	Ca_Kabuli_Chr05	21597910	CC	TT	TT	INTERGENIC			
SNP_35713_A_21623168	NC_021164.1	Ca_Kabuli_Chr05	21623168	CC	TT	TT	INTERGENIC			
SNP_35714_A_21623397	NC_021164.1	Ca_Kabuli_Chr05	21623397	AA	TT	TT	INTERGENIC			
SNP_35716_A_21623579	NC_021164.1	Ca_Kabuli_Chr05	21623579	CC	TT	TT	INTERGENIC			
SNP_35717_A_21623842	NC_021164.1	Ca_Kabuli_Chr05	21623842	AA	TT	TT	INTERGENIC			
SNP_35718_A_21623847	NC_021164.1	Ca_Kabuli_Chr05	21623847	TT	GG	GG	INTERGENIC			
SNP_35719_A_21623986	NC_021164.1	Ca_Kabuli_Chr05	21623986	AA	GG	GG	INTERGENIC			
SNP_35720_A_21624086	NC_021164.1	Ca_Kabuli_Chr05	21624086	GG	CC	CC	INTERGENIC			
SNP_35721_A_21624281	NC_021164.1	Ca_Kabuli_Chr05	21624281	AA	CC	CC	INTERGENIC			
SNP_35722_A_21658704	NC_021164.1	Ca_Kabuli_Chr05	21658704	GG	TT	TT	INTERGENIC			
SNP_35723_A_21658904	NC_021164.1	Ca_Kabuli_Chr05	21658904	CC	TT	TT	INTERGENIC			
SNP_35724_A_21658905	NC_021164.1	Ca_Kabuli_Chr05	21658905	TT	GG	GG	INTERGENIC			
SNP_35725_A_21661572	NC_021164.1	Ca_Kabuli_Chr05	21661572	AA	TT	TT	INTERGENIC			
SNP_35726_A_21663762	NC_021164.1	Ca_Kabuli_Chr05	21663762	GG	AA	AA	INTERGENIC			
SNP_35727_A_21663806	NC_021164.1	Ca_Kabuli_Chr05	21663806	AA	GG	GG	INTERGENIC			
SNP_35728_A_21665906	NC_021164.1	Ca_Kabuli_Chr05	21665906	GG	AA	AA	INTERGENIC			
SNP_35729_A_21665931	NC_021164.1	Ca_Kabuli_Chr05	21665931	GG	TT	TT	INTERGENIC			
SNP_35730_A_21666258	NC_021164.1	Ca_Kabuli_Chr05	21666258	TT	CC	CC	INTERGENIC			
SNP_35731_A_21670974	NC_021164.1	Ca_Kabuli_Chr05	21670974	CC	TT	TT	INTERGENIC			
SNP_35732_A_21670976	NC_021164.1	Ca_Kabuli_Chr05	21670976	AA	GG	GG	INTERGENIC			
SNP_35733_A_21675813	NC_021164.1	Ca_Kabuli_Chr05	21675813	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35734_A_21677793	NC_021164.1	Ca_Kabuli_Chr05	21677793	CC	AA	AA	INTERGENIC			
SNP_35735_A_21681648	NC_021164.1	Ca_Kabuli_Chr05	21681648	GG	TT	TT	INTERGENIC			
SNP_35736_A_21681649	NC_021164.1	Ca_Kabuli_Chr05	21681649	TT	GG	GG	INTERGENIC			
SNP_35737_A_21681655	NC_021164.1	Ca_Kabuli_Chr05	21681655	CC	TT	TT	INTERGENIC			
SNP_35738_A_21683445	NC_021164.1	Ca_Kabuli_Chr05	21683445	CC	TT	TT	INTERGENIC			
SNP_35739_A_21683461	NC_021164.1	Ca_Kabuli_Chr05	21683461	GG	TT	TT	INTERGENIC			
SNP_35740_A_21684225	NC_021164.1	Ca_Kabuli_Chr05	21684225	AA	TT	TT	INTERGENIC			
SNP_35741_A_21684245	NC_021164.1	Ca_Kabuli_Chr05	21684245	AA	GG	GG	INTERGENIC			
SNP_35742_A_21684529	NC_021164.1	Ca_Kabuli_Chr05	21684529	AA	GG	GG	INTERGENIC			
SNP_35743_A_21684537	NC_021164.1	Ca_Kabuli_Chr05	21684537	TT	CC	CC	INTERGENIC			
SNP_35744_A_21684553	NC_021164.1	Ca_Kabuli_Chr05	21684553	CC	AA	AA	INTERGENIC			
SNP_35745_A_21684906	NC_021164.1	Ca_Kabuli_Chr05	21684906	GG	CC	CC	INTERGENIC			
SNP_35746_A_21684929	NC_021164.1	Ca_Kabuli_Chr05	21684929	CC	TT	TT	INTERGENIC			
SNP_35747_A_21692423	NC_021164.1	Ca_Kabuli_Chr05	21692423	TT	AA	AA	INTERGENIC			
SNP_35748_A_21692447	NC_021164.1	Ca_Kabuli_Chr05	21692447	CC	GG	GG	INTERGENIC			
SNP_35749_A_21692488	NC_021164.1	Ca_Kabuli_Chr05	21692488	TT	GG	GG	INTERGENIC			
SNP_35750_A_21692530	NC_021164.1	Ca_Kabuli_Chr05	21692530	AA	GG	GG	INTERGENIC			
SNP_35751_A_21692548	NC_021164.1	Ca_Kabuli_Chr05	21692548	AA	TT	TT	INTERGENIC			
SNP_35752_A_21692570	NC_021164.1	Ca_Kabuli_Chr05	21692570	GG	AA	AA	INTERGENIC			
SNP_35753_A_21692581	NC_021164.1	Ca_Kabuli_Chr05	21692581	TT	CC	CC	INTERGENIC			
SNP_35754_A_21692711	NC_021164.1	Ca_Kabuli_Chr05	21692711	AA	GG	GG	INTERGENIC			
SNP_35755_A_21692816	NC_021164.1	Ca_Kabuli_Chr05	21692816	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35756_A_21693382	NC_021164.1	Ca_Kabuli_Chr05	21693382	AA	GG	GG	INTERGENIC			
SNP_35757_A_21693530	NC_021164.1	Ca_Kabuli_Chr05	21693530	TT	GG	GG	INTERGENIC			
SNP_35758_A_21693671	NC_021164.1	Ca_Kabuli_Chr05	21693671	GG	AA	AA	INTERGENIC			
SNP_35759_A_21693672	NC_021164.1	Ca_Kabuli_Chr05	21693672	TT	GG	GG	INTERGENIC			
SNP_35760_A_21699154	NC_021164.1	Ca_Kabuli_Chr05	21699154	GG	TT	TT	INTERGENIC			
SNP_35761_A_21699491	NC_021164.1	Ca_Kabuli_Chr05	21699491	CC	AA	AA	INTERGENIC			
SNP_35762_A_21714135	NC_021164.1	Ca_Kabuli_Chr05	21714135	AA	GG	GG	INTERGENIC			
SNP_35763_A_21714136	NC_021164.1	Ca_Kabuli_Chr05	21714136	AA	GG	GG	INTERGENIC			
SNP_35764_A_21720516	NC_021164.1	Ca_Kabuli_Chr05	21720516	GG	TT	TT	INTERGENIC			
SNP_35765_A_21720786	NC_021164.1	Ca_Kabuli_Chr05	21720786	CC	TT	TT	INTERGENIC			
SNP_35766_A_21720826	NC_021164.1	Ca_Kabuli_Chr05	21720826	AA	CC	CC	INTERGENIC			
SNP_35767_A_21720909	NC_021164.1	Ca_Kabuli_Chr05	21720909	CC	TT	TT	INTERGENIC			
SNP_35768_A_21721001	NC_021164.1	Ca_Kabuli_Chr05	21721001	CC	TT	TT	INTERGENIC			
SNP_35769_A_21723302	NC_021164.1	Ca_Kabuli_Chr05	21723302	TT	CC	CC	INTERGENIC			
SNP_35770_A_21740939	NC_021164.1	Ca_Kabuli_Chr05	21740939	TT	CC	CC	INTERGENIC			
SNP_35771_A_21740948	NC_021164.1	Ca_Kabuli_Chr05	21740948	CC	TT	TT	INTERGENIC			
SNP_35772_A_21740970	NC_021164.1	Ca_Kabuli_Chr05	21740970	TT	CC	CC	INTERGENIC			
SNP_35773_A_21740972	NC_021164.1	Ca_Kabuli_Chr05	21740972	TT	AA	AA	INTERGENIC			
SNP_35774_A_21740990	NC_021164.1	Ca_Kabuli_Chr05	21740990	CC	TT	TT	INTERGENIC			
SNP_35775_A_21741001	NC_021164.1	Ca_Kabuli_Chr05	21741001	AA	CC	CC	INTERGENIC			
SNP_35776_A_21741063	NC_021164.1	Ca_Kabuli_Chr05	21741063	CC	TT	TT	INTERGENIC			
SNP_35777_A_21741339	NC_021164.1	Ca_Kabuli_Chr05	21741339	GG	AA	AA	INTERGENIC			

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SNP_35778_A_21745782	NC_021164.1	Ca_Kabuli_Chr05	21745782	AA	TT	TT	INTERGENIC			
SNP_35779_A_21745884	NC_021164.1	Ca_Kabuli_Chr05	21745884	AA	CC	CC	INTERGENIC			
SNP_35780_A_21746170	NC_021164.1	Ca_Kabuli_Chr05	21746170	TT	CC	CC	INTERGENIC			
SNP_35781_A_21746172	NC_021164.1	Ca_Kabuli_Chr05	21746172	TT	CC	CC	INTERGENIC			
SNP_35782_A_21746181	NC_021164.1	Ca_Kabuli_Chr05	21746181	TT	CC	CC	INTERGENIC			
SNP_35783_A_21746241	NC_021164.1	Ca_Kabuli_Chr05	21746241	TT	GG	GG	INTERGENIC			
SNP_35784_A_21746247	NC_021164.1	Ca_Kabuli_Chr05	21746247	CC	GG	GG	INTERGENIC			
SNP_35785_A_21746262	NC_021164.1	Ca_Kabuli_Chr05	21746262	TT	CC	CC	INTERGENIC			
SNP_35787_A_21777860	NC_021164.1	Ca_Kabuli_Chr05	21777860	AA	GG	GG	INTERGENIC			
SNP_35788_A_21845225	NC_021164.1	Ca_Kabuli_Chr05	21845225	TT	CC	CC	INTERGENIC			
SNP_35789_A_21846444	NC_021164.1	Ca_Kabuli_Chr05	21846444	TT	AA	AA	INTERGENIC			
SNP_35790_A_21846449	NC_021164.1	Ca_Kabuli_Chr05	21846449	AA	GG	GG	INTERGENIC			
SNP_35791_A_21846567	NC_021164.1	Ca_Kabuli_Chr05	21846567	AA	TT	TT	INTERGENIC			
SNP_35792_A_21846662	NC_021164.1	Ca_Kabuli_Chr05	21846662	TT	GG	GG	INTERGENIC			
SNP_35793_A_21846677	NC_021164.1	Ca_Kabuli_Chr05	21846677	TT	CC	CC	INTERGENIC			
SNP_35794_A_21846685	NC_021164.1	Ca_Kabuli_Chr05	21846685	AA	GG	GG	INTERGENIC			
SNP_35795_A_21846725	NC_021164.1	Ca_Kabuli_Chr05	21846725	AA	CC	CC	INTERGENIC			
SNP_35796_A_21846743	NC_021164.1	Ca_Kabuli_Chr05	21846743	GG	TT	TT	INTERGENIC			
SNP_35797_A_21846807	NC_021164.1	Ca_Kabuli_Chr05	21846807	AA	TT	TT	INTERGENIC			
SNP_35798_A_21846832	NC_021164.1	Ca_Kabuli_Chr05	21846832	AA	GG	GG	INTERGENIC			
SNP_35799_A_21846876	NC_021164.1	Ca_Kabuli_Chr05	21846876	AA	GG	GG	INTERGENIC			
SNP_35800_A_21851286	NC_021164.1	Ca_Kabuli_Chr05	21851286	GG	TT	TT	DRR	101503629		Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35801_A_21851290	NC_021164.1	Ca_Kabuli_Chr05	21851290	GG	AA	AA	DRR	101503629	Unknown function
SNP_35802_A_21851369	NC_021164.1	Ca_Kabuli_Chr05	21851369	TT	GG	GG	NON_SYNONYMOUS_CODING	101503629	Unknown function
SNP_35803_A_21853701	NC_021164.1	Ca_Kabuli_Chr05	21853701	TT	CC	CC	INTRON	101503629	Unknown function
SNP_35804_A_21865444	NC_021164.1	Ca_Kabuli_Chr05	21865444	TT	CC	CC	INTERGENIC		
SNP_35805_A_21865490	NC_021164.1	Ca_Kabuli_Chr05	21865490	TT	CC	CC	INTERGENIC		
SNP_35806_A_21865540	NC_021164.1	Ca_Kabuli_Chr05	21865540	AA	GG	GG	INTERGENIC		
SNP_35807_A_21865543	NC_021164.1	Ca_Kabuli_Chr05	21865543	AA	GG	GG	INTERGENIC		
SNP_35809_A_21867725	NC_021164.1	Ca_Kabuli_Chr05	21867725	TT	CC	CC	INTERGENIC		
SNP_35810_A_21867734	NC_021164.1	Ca_Kabuli_Chr05	21867734	AA	GG	GG	INTERGENIC		
SNP_35811_A_21867781	NC_021164.1	Ca_Kabuli_Chr05	21867781	TT	AA	AA	INTERGENIC		
SNP_35812_A_21867902	NC_021164.1	Ca_Kabuli_Chr05	21867902	TT	GG	GG	INTERGENIC		
SNP_35813_A_21867963	NC_021164.1	Ca_Kabuli_Chr05	21867963	AA	GG	GG	INTERGENIC		
SNP_35814_A_21867965	NC_021164.1	Ca_Kabuli_Chr05	21867965	AA	GG	GG	INTERGENIC		
SNP_35815_A_21867967	NC_021164.1	Ca_Kabuli_Chr05	21867967	TT	CC	CC	INTERGENIC		
SNP_35817_A_21892004	NC_021164.1	Ca_Kabuli_Chr05	21892004	AA	GG	GG	INTERGENIC		
SNP_35818_A_21898491	NC_021164.1	Ca_Kabuli_Chr05	21898491	GG	CC	CC	INTERGENIC		
SNP_35819_A_21898552	NC_021164.1	Ca_Kabuli_Chr05	21898552	GG	AA	AA	INTERGENIC		
SNP_35820_A_21899296	NC_021164.1	Ca_Kabuli_Chr05	21899296	AA	GG	GG	INTERGENIC		
SNP_35822_A_21901046	NC_021164.1	Ca_Kabuli_Chr05	21901046	AA	TT	TT	INTERGENIC		
SNP_35823_A_21901049	NC_021164.1	Ca_Kabuli_Chr05	21901049	TT	AA	AA	INTERGENIC		
SNP_35824_A_21901069	NC_021164.1	Ca_Kabuli_Chr05	21901069	TT	CC	CC	INTERGENIC		
SNP_35825_A_21901094	NC_021164.1	Ca_Kabuli_Chr05	21901094	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35826_A_21901113	NC_021164.1	Ca_Kabuli_Chr05	21901113	TT	CC	CC	INTERGENIC		
SNP_35827_A_21901124	NC_021164.1	Ca_Kabuli_Chr05	21901124	GG	TT	TT	INTERGENIC		
SNP_35828_A_21901149	NC_021164.1	Ca_Kabuli_Chr05	21901149	AA	CC	CC	INTERGENIC		
SNP_35829_A_21908929	NC_021164.1	Ca_Kabuli_Chr05	21908929	GG	TT	TT	INTERGENIC		
SNP_35830_A_21909350	NC_021164.1	Ca_Kabuli_Chr05	21909350	TT	CC	CC	INTERGENIC		
SNP_35831_A_21917379	NC_021164.1	Ca_Kabuli_Chr05	21917379	AA	GG	GG	INTERGENIC		
SNP_35832_A_21917422	NC_021164.1	Ca_Kabuli_Chr05	21917422	TT	CC	CC	INTERGENIC		
SNP_35833_A_21918719	NC_021164.1	Ca_Kabuli_Chr05	21918719	TT	CC	CC	INTERGENIC		
SNP_35834_A_21918804	NC_021164.1	Ca_Kabuli_Chr05	21918804	AA	CC	CC	INTERGENIC		
SNP_35835_A_21918813	NC_021164.1	Ca_Kabuli_Chr05	21918813	AA	GG	GG	INTERGENIC		
SNP_35836_A_21918846	NC_021164.1	Ca_Kabuli_Chr05	21918846	TT	CC	CC	INTERGENIC		
SNP_35837_A_21918863	NC_021164.1	Ca_Kabuli_Chr05	21918863	CC	GG	GG	INTERGENIC		
SNP_35838_A_21918870	NC_021164.1	Ca_Kabuli_Chr05	21918870	CC	TT	TT	INTERGENIC		
SNP_35839_A_21918876	NC_021164.1	Ca_Kabuli_Chr05	21918876	AA	GG	GG	INTERGENIC		
SNP_35840_A_21921362	NC_021164.1	Ca_Kabuli_Chr05	21921362	TT	GG	GG	DRR	101504921	probable polygalacturonase At3g15720
SNP_35841_A_21921387	NC_021164.1	Ca_Kabuli_Chr05	21921387	GG	AA	AA	NON_SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35842_A_21921388	NC_021164.1	Ca_Kabuli_Chr05	21921388	TT	GG	GG	NON_SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35843_A_21921409	NC_021164.1	Ca_Kabuli_Chr05	21921409	TT	AA	AA	SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35844_A_21921463	NC_021164.1	Ca_Kabuli_Chr05	21921463	AA	GG	GG	SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35845_A_21921472	NC_021164.1	Ca_Kabuli_Chr05	21921472	TT	AA	AA	SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35846_A_21921528	NC_021164.1	Ca_Kabuli_Chr05	21921528	AA	TT	TT	NON_SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720
SNP_35847_A_21921543	NC_021164.1	Ca_Kabuli_Chr05	21921543	TT	AA	AA	NON_SYNONYMOUS_CODING	101504921	probable polygalacturonase At3g15720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35848_A_21921590	NC_021164.1	Ca_Kabuli_Chr05	21921590	TT	GG	GG	INTRON	101504921	probable polygalacturonase At3g15720
SNP_35849_A_21921609	NC_021164.1	Ca_Kabuli_Chr05	21921609	TT	CC	CC	INTRON	101504921	probable polygalacturonase At3g15720
SNP_35850_A_21921783	NC_021164.1	Ca_Kabuli_Chr05	21921783	TT	AA	AA	INTRON	101504921	probable polygalacturonase At3g15720
SNP_35851_A_21921803	NC_021164.1	Ca_Kabuli_Chr05	21921803	TT	AA	AA	INTRON	101504921	probable polygalacturonase At3g15720
SNP_35852_A_21944872	NC_021164.1	Ca_Kabuli_Chr05	21944872	GG	AA	AA	INTERGENIC		
SNP_35854_A_21998824	NC_021164.1	Ca_Kabuli_Chr05	21998824	TT	CC	CC	INTERGENIC		
SNP_35855_A_21998825	NC_021164.1	Ca_Kabuli_Chr05	21998825	TT	CC	CC	INTERGENIC		
SNP_35856_A_22058575	NC_021164.1	Ca_Kabuli_Chr05	22058575	AA	GG	GG	INTERGENIC		
SNP_35857_A_22139095	NC_021164.1	Ca_Kabuli_Chr05	22139095	GG	TT	TT	INTERGENIC		
SNP_35858_A_22189432	NC_021164.1	Ca_Kabuli_Chr05	22189432	GG	AA	AA	URR	101509845	peptide methionine sulfoxide reductase-like
SNP_35859_A_22189433	NC_021164.1	Ca_Kabuli_Chr05	22189433	TT	CC	CC	URR	101509845	peptide methionine sulfoxide reductase-like
SNP_35860_A_22205883	NC_021164.1	Ca_Kabuli_Chr05	22205883	AA	TT	TT	INTERGENIC		
SNP_35861_A_22205901	NC_021164.1	Ca_Kabuli_Chr05	22205901	CC	TT	TT	INTERGENIC		
SNP_35862_A_22205934	NC_021164.1	Ca_Kabuli_Chr05	22205934	TT	GG	GG	INTERGENIC		
SNP_35863_A_22210180	NC_021164.1	Ca_Kabuli_Chr05	22210180	TT	CC	CC	INTERGENIC		
SNP_35864_A_22210532	NC_021164.1	Ca_Kabuli_Chr05	22210532	CC	TT	TT	INTERGENIC		
SNP_35866_A_22255850	NC_021164.1	Ca_Kabuli_Chr05	22255850	AA	GG	GG	INTERGENIC		
SNP_35867_A_22290931	NC_021164.1	Ca_Kabuli_Chr05	22290931	AA	CC	CC	INTERGENIC		
SNP_35868_A_22290935	NC_021164.1	Ca_Kabuli_Chr05	22290935	GG	TT	TT	INTERGENIC		
SNP_35869_A_22291211	NC_021164.1	Ca_Kabuli_Chr05	22291211	TT	CC	CC	INTERGENIC		
SNP_35870_A_22293745	NC_021164.1	Ca_Kabuli_Chr05	22293745	AA	GG	GG	INTERGENIC		
SNP_35871_A_22293768	NC_021164.1	Ca_Kabuli_Chr05	22293768	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35872_A_22293778	NC_021164.1	Ca_Kabuli_Chr05	22293778	TT	CC	CC	INTERGENIC		
SNP_35873_A_22293826	NC_021164.1	Ca_Kabuli_Chr05	22293826	TT	CC	CC	INTERGENIC		
SNP_35874_A_22294110	NC_021164.1	Ca_Kabuli_Chr05	22294110	AA	GG	GG	INTERGENIC		
SNP_35875_A_22294142	NC_021164.1	Ca_Kabuli_Chr05	22294142	GG	AA	AA	INTERGENIC		
SNP_35876_A_22294157	NC_021164.1	Ca_Kabuli_Chr05	22294157	TT	CC	CC	INTERGENIC		
SNP_35877_A_22294175	NC_021164.1	Ca_Kabuli_Chr05	22294175	GG	AA	AA	INTERGENIC		
SNP_35878_A_22294247	NC_021164.1	Ca_Kabuli_Chr05	22294247	CC	TT	TT	INTERGENIC		
SNP_35879_A_22294329	NC_021164.1	Ca_Kabuli_Chr05	22294329	AA	GG	GG	INTERGENIC		
SNP_35880_A_22359694	NC_021164.1	Ca_Kabuli_Chr05	22359694	TT	AA	AA	INTERGENIC		
SNP_35881_A_22393071	NC_021164.1	Ca_Kabuli_Chr05	22393071	TT	CC	CC	INTERGENIC		
SNP_35882_A_22401676	NC_021164.1	Ca_Kabuli_Chr05	22401676	TT	CC	CC	INTERGENIC		
SNP_35883_A_22413301	NC_021164.1	Ca_Kabuli_Chr05	22413301	GG	AA	AA	INTERGENIC		
SNP_35884_A_22419092	NC_021164.1	Ca_Kabuli_Chr05	22419092	GG	AA	AA	NON_SYNONYMOUS_CODING	101512087	protein translation factor SUI1 homolog 2
SNP_35885_A_22465662	NC_021164.1	Ca_Kabuli_Chr05	22465662	CC	TT	TT	INTERGENIC		
SNP_35886_A_22615555	NC_021164.1	Ca_Kabuli_Chr05	22615555	CC	TT	TT	DRR	101497533	uncharacterized LOC101497533
SNP_35887_A_22615803	NC_021164.1	Ca_Kabuli_Chr05	22615803	TT	CC	CC	DRR	101497533	uncharacterized LOC101497533
SNP_35888_A_22616048	NC_021164.1	Ca_Kabuli_Chr05	22616048	TT	AA	AA	INTERGENIC		
SNP_35890_A_22649731	NC_021164.1	Ca_Kabuli_Chr05	22649731	AA	GG	GG	INTERGENIC		
SNP_35891_A_22649742	NC_021164.1	Ca_Kabuli_Chr05	22649742	CC	TT	TT	INTERGENIC		
SNP_35892_A_22649749	NC_021164.1	Ca_Kabuli_Chr05	22649749	CC	AA	AA	INTERGENIC		
SNP_35893_A_22649772	NC_021164.1	Ca_Kabuli_Chr05	22649772	TT	CC	CC	INTERGENIC		
SNP_35894_A_22649779	NC_021164.1	Ca_Kabuli_Chr05	22649779	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35895_A_22650321	NC_021164.1	Ca_Kabuli_Chr05	22650321	AA	TT	TT	DRR	101498181	Unknown function
SNP_35896_A_22650327	NC_021164.1	Ca_Kabuli_Chr05	22650327	TT	AA	AA	DRR	101498181	Unknown function
SNP_35897_A_22650333	NC_021164.1	Ca_Kabuli_Chr05	22650333	CC	TT	TT	DRR	101498181	Unknown function
SNP_35898_A_22654918	NC_021164.1	Ca_Kabuli_Chr05	22654918	AA	GG	GG	URR	101498181	Unknown function
SNP_35899_A_22654925	NC_021164.1	Ca_Kabuli_Chr05	22654925	AA	CC	CC	URR	101498181	Unknown function
SNP_35900_A_22654939	NC_021164.1	Ca_Kabuli_Chr05	22654939	TT	CC	CC	URR	101498181	Unknown function
SNP_35901_A_22659218	NC_021164.1	Ca_Kabuli_Chr05	22659218	CC	GG	GG	INTERGENIC		
SNP_35902_A_22659403	NC_021164.1	Ca_Kabuli_Chr05	22659403	AA	TT	TT	INTERGENIC		
SNP_35903_A_22668920	NC_021164.1	Ca_Kabuli_Chr05	22668920	CC	AA	AA	INTERGENIC		
SNP_35904_A_22691819	NC_021164.1	Ca_Kabuli_Chr05	22691819	GG	TT	TT	DRR	101491144	Unknown function
SNP_35905_A_22691820	NC_021164.1	Ca_Kabuli_Chr05	22691820	AA	TT	TT	DRR	101491144	Unknown function
SNP_35906_A_22691831	NC_021164.1	Ca_Kabuli_Chr05	22691831	TT	GG	GG	DRR	101491144	Unknown function
SNP_35907_A_22691832	NC_021164.1	Ca_Kabuli_Chr05	22691832	GG	CC	CC	DRR	101491144	Unknown function
SNP_35908_A_22691841	NC_021164.1	Ca_Kabuli_Chr05	22691841	CC	AA	AA	DRR	101491144	Unknown function
SNP_35909_A_22691844	NC_021164.1	Ca_Kabuli_Chr05	22691844	CC	GG	GG	DRR	101491144	Unknown function
SNP_35910_A_22691874	NC_021164.1	Ca_Kabuli_Chr05	22691874	CC	AA	AA	DRR	101491144	Unknown function
SNP_35911_A_22691876	NC_021164.1	Ca_Kabuli_Chr05	22691876	TT	GG	GG	DRR	101491144	Unknown function
SNP_35912_A_22691880	NC_021164.1	Ca_Kabuli_Chr05	22691880	GG	AA	AA	DRR	101491144	Unknown function
SNP_35913_A_22691910	NC_021164.1	Ca_Kabuli_Chr05	22691910	TT	CC	CC	DRR	101491144	Unknown function
SNP_35914_A_22691957	NC_021164.1	Ca_Kabuli_Chr05	22691957	CC	GG	GG	DRR	101491144	Unknown function
SNP_35915_A_22691958	NC_021164.1	Ca_Kabuli_Chr05	22691958	AA	GG	GG	DRR	101491144	Unknown function
SNP_35916_A_22692002	NC_021164.1	Ca_Kabuli_Chr05	22692002	TT	CC	CC	DRR	101491144	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_35917_A_22692075	NC_021164.1	Ca_Kabuli_Chr05	22692075	CC	TT	TT	DRR	101491144	Unknown function
SNP_35918_A_22693505	NC_021164.1	Ca_Kabuli_Chr05	22693505	AA	TT	TT	DRR	101490819	NADH-ubiquinone oxidoreductase chain 1
SNP_35919_A_22693788	NC_021164.1	Ca_Kabuli_Chr05	22693788	GG	TT	TT	URR	101491144	Unknown function
SNP_35920_A_22693789	NC_021164.1	Ca_Kabuli_Chr05	22693789	AA	CC	CC	URR	101491144	Unknown function
SNP_35921_A_22693936	NC_021164.1	Ca_Kabuli_Chr05	22693936	CC	AA	AA	URR	101491144	Unknown function
SNP_35922_A_22694037	NC_021164.1	Ca_Kabuli_Chr05	22694037	CC	AA	AA	URR	101491144	Unknown function
SNP_35923_A_22694063	NC_021164.1	Ca_Kabuli_Chr05	22694063	AA	GG	GG	URR	101491144	Unknown function
SNP_35924_A_22751653	NC_021164.1	Ca_Kabuli_Chr05	22751653	TT	CC	CC	INTERGENIC		
SNP_35925_A_22751661	NC_021164.1	Ca_Kabuli_Chr05	22751661	AA	CC	CC	INTERGENIC		
SNP_35926_A_22752118	NC_021164.1	Ca_Kabuli_Chr05	22752118	GG	AA	AA	INTERGENIC		
SNP_35927_A_22781176	NC_021164.1	Ca_Kabuli_Chr05	22781176	AA	GG	GG	INTERGENIC		
SNP_35928_A_22864574	NC_021164.1	Ca_Kabuli_Chr05	22864574	GG	TT	TT	INTRON	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35929_A_22864595	NC_021164.1	Ca_Kabuli_Chr05	22864595	TT	CC	CC	INTRON	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35930_A_22864602	NC_021164.1	Ca_Kabuli_Chr05	22864602	CC	TT	TT	INTRON	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35931_A_22864635	NC_021164.1	Ca_Kabuli_Chr05	22864635	TT	CC	CC	NON_SYNONYMOUS_CODING	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35932_A_22864643	NC_021164.1	Ca_Kabuli_Chr05	22864643	AA	GG	GG	NON_SYNONYMOUS_CODING	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35933_A_22865487	NC_021164.1	Ca_Kabuli_Chr05	22865487	GG	CC	CC	URR	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35934_A_22865575	NC_021164.1	Ca_Kabuli_Chr05	22865575	TT	CC	CC	URR	101499492	serine/threonine-protein phosphatase 7 long form homolog
SNP_35935_A_22867509	NC_021164.1	Ca_Kabuli_Chr05	22867509	TT	CC	CC	INTERGENIC		
SNP_35936_A_22867936	NC_021164.1	Ca_Kabuli_Chr05	22867936	TT	CC	CC	INTERGENIC		
SNP_35937_A_22867956	NC_021164.1	Ca_Kabuli_Chr05	22867956	AA	GG	GG	INTERGENIC		
SNP_35938_A_22879856	NC_021164.1	Ca_Kabuli_Chr05	22879856	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35939_A_22880160	NC_021164.1	Ca_Kabuli_Chr05	22880160	CC	AA	AA	INTERGENIC			
SNP_35940_A_22880346	NC_021164.1	Ca_Kabuli_Chr05	22880346	CC	TT	TT	INTERGENIC			
SNP_35941_A_22884337	NC_021164.1	Ca_Kabuli_Chr05	22884337	TT	CC	CC	INTERGENIC			
SNP_35942_A_22896066	NC_021164.1	Ca_Kabuli_Chr05	22896066	TT	CC	CC	INTERGENIC			
SNP_35943_A_22896139	NC_021164.1	Ca_Kabuli_Chr05	22896139	CC	TT	TT	INTERGENIC			
SNP_35944_A_22896259	NC_021164.1	Ca_Kabuli_Chr05	22896259	GG	AA	AA	INTERGENIC			
SNP_35945_A_22896273	NC_021164.1	Ca_Kabuli_Chr05	22896273	TT	CC	CC	INTERGENIC			
SNP_35946_A_22915970	NC_021164.1	Ca_Kabuli_Chr05	22915970	TT	AA	AA	INTERGENIC			
SNP_35947_A_22918209	NC_021164.1	Ca_Kabuli_Chr05	22918209	AA	GG	GG	INTERGENIC			
SNP_35948_A_22918293	NC_021164.1	Ca_Kabuli_Chr05	22918293	AA	TT	TT	INTERGENIC			
SNP_35949_A_22918353	NC_021164.1	Ca_Kabuli_Chr05	22918353	TT	CC	CC	INTERGENIC			
SNP_35950_A_22918357	NC_021164.1	Ca_Kabuli_Chr05	22918357	CC	TT	TT	INTERGENIC			
SNP_35951_A_22918439	NC_021164.1	Ca_Kabuli_Chr05	22918439	CC	GG	GG	INTERGENIC			
SNP_35954_A_22918579	NC_021164.1	Ca_Kabuli_Chr05	22918579	AA	TT	TT	INTERGENIC			
SNP_35955_A_22918580	NC_021164.1	Ca_Kabuli_Chr05	22918580	TT	GG	GG	INTERGENIC			
SNP_35956_A_22918582	NC_021164.1	Ca_Kabuli_Chr05	22918582	AA	GG	GG	INTERGENIC			
SNP_35957_A_22918600	NC_021164.1	Ca_Kabuli_Chr05	22918600	CC	GG	GG	INTERGENIC			
SNP_35958_A_22918622	NC_021164.1	Ca_Kabuli_Chr05	22918622	CC	TT	TT	INTERGENIC			
SNP_35959_A_22918640	NC_021164.1	Ca_Kabuli_Chr05	22918640	AA	TT	TT	INTERGENIC			
SNP_35960_A_22918677	NC_021164.1	Ca_Kabuli_Chr05	22918677	AA	GG	GG	INTERGENIC			
SNP_35961_A_22918684	NC_021164.1	Ca_Kabuli_Chr05	22918684	TT	CC	CC	INTERGENIC			
SNP_35962_A_22918685	NC_021164.1	Ca_Kabuli_Chr05	22918685	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35963_A_22918694	NC_021164.1	Ca_Kabuli_Chr05	22918694	TT	CC	CC	INTERGENIC			
SNP_35964_A_22919298	NC_021164.1	Ca_Kabuli_Chr05	22919298	GG	AA	AA	INTERGENIC			
SNP_35965_A_22919314	NC_021164.1	Ca_Kabuli_Chr05	22919314	TT	AA	AA	INTERGENIC			
SNP_35966_A_22919387	NC_021164.1	Ca_Kabuli_Chr05	22919387	AA	GG	GG	INTERGENIC			
SNP_35967_A_22919393	NC_021164.1	Ca_Kabuli_Chr05	22919393	TT	AA	AA	INTERGENIC			
SNP_35968_A_22919430	NC_021164.1	Ca_Kabuli_Chr05	22919430	AA	GG	GG	INTERGENIC			
SNP_35969_A_22919484	NC_021164.1	Ca_Kabuli_Chr05	22919484	TT	CC	CC	INTERGENIC			
SNP_35971_A_22919703	NC_021164.1	Ca_Kabuli_Chr05	22919703	GG	AA	AA	INTERGENIC			
SNP_35973_A_22919734	NC_021164.1	Ca_Kabuli_Chr05	22919734	GG	AA	AA	INTERGENIC			
SNP_35974_A_22919760	NC_021164.1	Ca_Kabuli_Chr05	22919760	TT	CC	CC	INTERGENIC			
SNP_35975_A_22932556	NC_021164.1	Ca_Kabuli_Chr05	22932556	TT	CC	CC	INTERGENIC			
SNP_35976_A_22952012	NC_021164.1	Ca_Kabuli_Chr05	22952012	CC	GG	GG	URR		101500115	upstream activation factor subunit UAF30
SNP_35978_A_23085223	NC_021164.1	Ca_Kabuli_Chr05	23085223	AA	GG	GG	INTERGENIC			
SNP_35980_A_23096622	NC_021164.1	Ca_Kabuli_Chr05	23096622	TT	CC	CC	INTERGENIC			
SNP_35981_A_23096939	NC_021164.1	Ca_Kabuli_Chr05	23096939	CC	TT	TT	INTERGENIC			
SNP_35982_A_23099260	NC_021164.1	Ca_Kabuli_Chr05	23099260	GG	TT	TT	INTERGENIC			
SNP_35984_A_23117235	NC_021164.1	Ca_Kabuli_Chr05	23117235	TT	CC	CC	INTERGENIC			
SNP_35985_A_23165902	NC_021164.1	Ca_Kabuli_Chr05	23165902	TT	GG	GG	INTERGENIC			
SNP_35986_A_23179158	NC_021164.1	Ca_Kabuli_Chr05	23179158	CC	TT	TT	INTERGENIC			
SNP_35987_A_23258353	NC_021164.1	Ca_Kabuli_Chr05	23258353	GG	AA	AA	INTERGENIC			
SNP_35988_A_23313684	NC_021164.1	Ca_Kabuli_Chr05	23313684	TT	CC	CC	URR		101507410	beta-(1,2)-xylosyltransferase
SNP_35989_A_23313686	NC_021164.1	Ca_Kabuli_Chr05	23313686	TT	GG	GG	URR		101507410	beta-(1,2)-xylosyltransferase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_35990_A_23336129	NC_021164.1	Ca_Kabuli_Chr05	23336129	TT	AA	AA	INTERGENIC			
SNP_35991_A_23336130	NC_021164.1	Ca_Kabuli_Chr05	23336130	AA	TT	TT	INTERGENIC			
SNP_35992_A_23336151	NC_021164.1	Ca_Kabuli_Chr05	23336151	CC	TT	TT	INTERGENIC			
SNP_35993_A_23336212	NC_021164.1	Ca_Kabuli_Chr05	23336212	AA	CC	CC	INTERGENIC			
SNP_35994_A_23336547	NC_021164.1	Ca_Kabuli_Chr05	23336547	TT	AA	AA	INTERGENIC			
SNP_35995_A_23336556	NC_021164.1	Ca_Kabuli_Chr05	23336556	AA	GG	GG	INTERGENIC			
SNP_35996_A_23336615	NC_021164.1	Ca_Kabuli_Chr05	23336615	AA	GG	GG	INTERGENIC			
SNP_35997_A_23338134	NC_021164.1	Ca_Kabuli_Chr05	23338134	CC	TT	TT	INTERGENIC			
SNP_35998_A_23355099	NC_021164.1	Ca_Kabuli_Chr05	23355099	TT	CC	CC	INTERGENIC			
SNP_35999_A_23355106	NC_021164.1	Ca_Kabuli_Chr05	23355106	CC	TT	TT	INTERGENIC			
SNP_36000_A_23355112	NC_021164.1	Ca_Kabuli_Chr05	23355112	AA	GG	GG	INTERGENIC			
SNP_36001_A_23378176	NC_021164.1	Ca_Kabuli_Chr05	23378176	GG	AA	AA	INTERGENIC			
SNP_36002_A_23394759	NC_021164.1	Ca_Kabuli_Chr05	23394759	TT	CC	CC	INTERGENIC			
SNP_36003_A_23394760	NC_021164.1	Ca_Kabuli_Chr05	23394760	TT	AA	AA	INTERGENIC			
SNP_36004_A_23437164	NC_021164.1	Ca_Kabuli_Chr05	23437164	GG	CC	CC	INTERGENIC			
SNP_36005_A_23462452	NC_021164.1	Ca_Kabuli_Chr05	23462452	GG	TT	TT	URR	101510274	DNA polymerase I B, chloroplastic/mitochondrial-like	
SNP_36006_A_23462461	NC_021164.1	Ca_Kabuli_Chr05	23462461	TT	CC	CC	URR	101510274	DNA polymerase I B, chloroplastic/mitochondrial-like	
SNP_36007_A_23464636	NC_021164.1	Ca_Kabuli_Chr05	23464636	AA	GG	GG	INTERGENIC			
SNP_36008_A_23471798	NC_021164.1	Ca_Kabuli_Chr05	23471798	TT	GG	GG	INTRON	101495787	beta-glucosidase 13-like	
SNP_36009_A_23487805	NC_021164.1	Ca_Kabuli_Chr05	23487805	GG	AA	AA	INTRON	101495787	beta-glucosidase 13-like	
SNP_36010_A_23487809	NC_021164.1	Ca_Kabuli_Chr05	23487809	AA	TT	TT	INTRON	101495787	beta-glucosidase 13-like	
SNP_36011_A_23487904	NC_021164.1	Ca_Kabuli_Chr05	23487904	AA	GG	GG	INTRON	101495787	beta-glucosidase 13-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36012_A_23488076	NC_021164.1	Ca_Kabuli_Chr05	23488076	AA	CC	CC	INTRON	101495787	beta-glucosidase 13-like
SNP_36013_A_23508982	NC_021164.1	Ca_Kabuli_Chr05	23508982	TT	CC	CC	INTERGENIC		
SNP_36014_A_23544470	NC_021164.1	Ca_Kabuli_Chr05	23544470	AA	GG	GG	INTERGENIC		
SNP_36015_A_23557505	NC_021164.1	Ca_Kabuli_Chr05	23557505	AA	GG	GG	DRR	101496108	Unknown function
SNP_36016_A_23557661	NC_021164.1	Ca_Kabuli_Chr05	23557661	CC	AA	AA	DRR	101496108	Unknown function
SNP_36017_A_23557662	NC_021164.1	Ca_Kabuli_Chr05	23557662	GG	TT	TT	DRR	101496108	Unknown function
SNP_36018_A_23557666	NC_021164.1	Ca_Kabuli_Chr05	23557666	AA	GG	GG	DRR	101496108	Unknown function
SNP_36019_A_23557703	NC_021164.1	Ca_Kabuli_Chr05	23557703	TT	CC	CC	DRR	101496108	Unknown function
SNP_36020_A_23557735	NC_021164.1	Ca_Kabuli_Chr05	23557735	TT	AA	AA	DRR	101496108	Unknown function
SNP_36021_A_23557754	NC_021164.1	Ca_Kabuli_Chr05	23557754	TT	CC	CC	DRR	101496108	Unknown function
SNP_36022_A_23558076	NC_021164.1	Ca_Kabuli_Chr05	23558076	TT	CC	CC	INTERGENIC		
SNP_36023_A_23558112	NC_021164.1	Ca_Kabuli_Chr05	23558112	TT	CC	CC	INTERGENIC		
SNP_36024_A_23559200	NC_021164.1	Ca_Kabuli_Chr05	23559200	TT	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36025_A_23559208	NC_021164.1	Ca_Kabuli_Chr05	23559208	TT	AA	AA	DRR	101513061	uncharacterized LOC101513061
SNP_36026_A_23559219	NC_021164.1	Ca_Kabuli_Chr05	23559219	TT	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36027_A_23559226	NC_021164.1	Ca_Kabuli_Chr05	23559226	TT	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36028_A_23559237	NC_021164.1	Ca_Kabuli_Chr05	23559237	TT	AA	AA	DRR	101513061	uncharacterized LOC101513061
SNP_36029_A_23559271	NC_021164.1	Ca_Kabuli_Chr05	23559271	CC	GG	GG	DRR	101513061	uncharacterized LOC101513061
SNP_36030_A_23559280	NC_021164.1	Ca_Kabuli_Chr05	23559280	TT	AA	AA	DRR	101513061	uncharacterized LOC101513061
SNP_36031_A_23559292	NC_021164.1	Ca_Kabuli_Chr05	23559292	TT	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36032_A_23559294	NC_021164.1	Ca_Kabuli_Chr05	23559294	AA	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36033_A_23559296	NC_021164.1	Ca_Kabuli_Chr05	23559296	GG	CC	CC	DRR	101513061	uncharacterized LOC101513061

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36034_A_23559302	NC_021164.1	Ca_Kabuli_Chr05	23559302	GG	AA	AA	DRR	101513061	uncharacterized LOC101513061
SNP_36035_A_23559310	NC_021164.1	Ca_Kabuli_Chr05	23559310	AA	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36036_A_23559311	NC_021164.1	Ca_Kabuli_Chr05	23559311	TT	CC	CC	DRR	101513061	uncharacterized LOC101513061
SNP_36037_A_23567091	NC_021164.1	Ca_Kabuli_Chr05	23567091	AA	CC	CC	URR	101512416	Unknown function
SNP_36038_A_23567114	NC_021164.1	Ca_Kabuli_Chr05	23567114	TT	GG	GG	URR	101512416	Unknown function
SNP_36039_A_23583692	NC_021164.1	Ca_Kabuli_Chr05	23583692	AA	GG	GG	URR	101496769	uncharacterized LOC101496769
SNP_36040_A_23585048	NC_021164.1	Ca_Kabuli_Chr05	23585048	CC	AA	AA	INTERGENIC		
SNP_36041_A_23585118	NC_021164.1	Ca_Kabuli_Chr05	23585118	TT	CC	CC	INTERGENIC		
SNP_36042_A_23585130	NC_021164.1	Ca_Kabuli_Chr05	23585130	GG	TT	TT	INTERGENIC		
SNP_36043_A_23585491	NC_021164.1	Ca_Kabuli_Chr05	23585491	TT	CC	CC	INTERGENIC		
SNP_36044_A_23588479	NC_021164.1	Ca_Kabuli_Chr05	23588479	TT	CC	CC	INTERGENIC		
SNP_36045_A_23593955	NC_021164.1	Ca_Kabuli_Chr05	23593955	CC	AA	AA	INTERGENIC		
SNP_36046_A_23595400	NC_021164.1	Ca_Kabuli_Chr05	23595400	GG	TT	TT	INTERGENIC		
SNP_36047_A_23595435	NC_021164.1	Ca_Kabuli_Chr05	23595435	TT	GG	GG	INTERGENIC		
SNP_36048_A_23595484	NC_021164.1	Ca_Kabuli_Chr05	23595484	CC	TT	TT	INTERGENIC		
SNP_36049_A_23595666	NC_021164.1	Ca_Kabuli_Chr05	23595666	AA	TT	TT	INTERGENIC		
SNP_36050_A_23596430	NC_021164.1	Ca_Kabuli_Chr05	23596430	GG	AA	AA	INTERGENIC		
SNP_36051_A_23596643	NC_021164.1	Ca_Kabuli_Chr05	23596643	AA	GG	GG	INTERGENIC		
SNP_36052_A_23596690	NC_021164.1	Ca_Kabuli_Chr05	23596690	TT	CC	CC	INTERGENIC		
SNP_36053_A_23596784	NC_021164.1	Ca_Kabuli_Chr05	23596784	GG	AA	AA	INTERGENIC		
SNP_36054_A_23606244	NC_021164.1	Ca_Kabuli_Chr05	23606244	GG	AA	AA	INTERGENIC		
SNP_36055_A_23606472	NC_021164.1	Ca_Kabuli_Chr05	23606472	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36056_A_23606509	NC_021164.1	Ca_Kabuli_Chr05	23606509	AA	CC	CC	DRR	101497085	Unknown function
SNP_36057_A_23606527	NC_021164.1	Ca_Kabuli_Chr05	23606527	TT	CC	CC	DRR	101497085	Unknown function
SNP_36058_A_23643158	NC_021164.1	Ca_Kabuli_Chr05	23643158	TT	GG	GG	INTERGENIC		
SNP_36059_A_23644704	NC_021164.1	Ca_Kabuli_Chr05	23644704	TT	CC	CC	DRR	101497752	Unknown function
SNP_36060_A_23644770	NC_021164.1	Ca_Kabuli_Chr05	23644770	TT	CC	CC	DRR	101497752	Unknown function
SNP_36061_A_23645021	NC_021164.1	Ca_Kabuli_Chr05	23645021	GG	TT	TT	DRR	101497752	Unknown function
SNP_36062_A_23645153	NC_021164.1	Ca_Kabuli_Chr05	23645153	GG	AA	AA	DRR	101497752	Unknown function
SNP_36063_A_23645186	NC_021164.1	Ca_Kabuli_Chr05	23645186	AA	GG	GG	DRR	101497752	Unknown function
SNP_36064_A_23645206	NC_021164.1	Ca_Kabuli_Chr05	23645206	AA	TT	TT	DRR	101497752	Unknown function
SNP_36065_A_23645213	NC_021164.1	Ca_Kabuli_Chr05	23645213	AA	GG	GG	DRR	101497752	Unknown function
SNP_36066_A_23645228	NC_021164.1	Ca_Kabuli_Chr05	23645228	AA	GG	GG	DRR	101497752	Unknown function
SNP_36067_A_23645241	NC_021164.1	Ca_Kabuli_Chr05	23645241	TT	CC	CC	DRR	101497752	Unknown function
SNP_36068_A_23645243	NC_021164.1	Ca_Kabuli_Chr05	23645243	TT	GG	GG	DRR	101497752	Unknown function
SNP_36069_A_23645295	NC_021164.1	Ca_Kabuli_Chr05	23645295	GG	AA	AA	DRR	101497752	Unknown function
SNP_36070_A_23645380	NC_021164.1	Ca_Kabuli_Chr05	23645380	TT	CC	CC	NON_SYNONYMOUS_CODING	101497752	Unknown function
SNP_36071_A_23646400	NC_021164.1	Ca_Kabuli_Chr05	23646400	TT	CC	CC	INTRON	101497752	Unknown function
SNP_36073_A_23646559	NC_021164.1	Ca_Kabuli_Chr05	23646559	AA	TT	TT	INTRON	101497752	Unknown function
SNP_36074_A_23646560	NC_021164.1	Ca_Kabuli_Chr05	23646560	GG	TT	TT	INTRON	101497752	Unknown function
SNP_36075_A_23663069	NC_021164.1	Ca_Kabuli_Chr05	23663069	TT	GG	GG	INTERGENIC		
SNP_36076_A_23663093	NC_021164.1	Ca_Kabuli_Chr05	23663093	AA	CC	CC	INTERGENIC		
SNP_36078_A_23663168	NC_021164.1	Ca_Kabuli_Chr05	23663168	AA	GG	GG	INTERGENIC		
SNP_36079_A_23663195	NC_021164.1	Ca_Kabuli_Chr05	23663195	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36080_A_23664201	NC_021164.1	Ca_Kabuli_Chr05	23664201	AA	GG	GG	INTERGENIC			
SNP_36081_A_23664245	NC_021164.1	Ca_Kabuli_Chr05	23664245	TT	CC	CC	INTERGENIC			
SNP_36082_A_23664292	NC_021164.1	Ca_Kabuli_Chr05	23664292	AA	CC	CC	INTERGENIC			
SNP_36083_A_23664301	NC_021164.1	Ca_Kabuli_Chr05	23664301	AA	GG	GG	INTERGENIC			
SNP_36084_A_23664373	NC_021164.1	Ca_Kabuli_Chr05	23664373	AA	CC	CC	INTERGENIC			
SNP_36085_A_23664483	NC_021164.1	Ca_Kabuli_Chr05	23664483	AA	GG	GG	INTERGENIC			
SNP_36086_A_23664514	NC_021164.1	Ca_Kabuli_Chr05	23664514	AA	GG	GG	INTERGENIC			
SNP_36087_A_23664561	NC_021164.1	Ca_Kabuli_Chr05	23664561	TT	CC	CC	INTERGENIC			
SNP_36089_A_23668830	NC_021164.1	Ca_Kabuli_Chr05	23668830	GG	TT	TT	INTERGENIC			
SNP_36090_A_23668919	NC_021164.1	Ca_Kabuli_Chr05	23668919	GG	TT	TT	INTERGENIC			
SNP_36091_A_23668943	NC_021164.1	Ca_Kabuli_Chr05	23668943	GG	AA	AA	INTERGENIC			
SNP_36092_A_23669358	NC_021164.1	Ca_Kabuli_Chr05	23669358	TT	CC	CC	INTERGENIC			
SNP_36093_A_23669370	NC_021164.1	Ca_Kabuli_Chr05	23669370	TT	CC	CC	INTERGENIC			
SNP_36094_A_23670085	NC_021164.1	Ca_Kabuli_Chr05	23670085	TT	CC	CC	INTERGENIC			
SNP_36095_A_23670111	NC_021164.1	Ca_Kabuli_Chr05	23670111	AA	GG	GG	INTERGENIC			
SNP_36096_A_23670171	NC_021164.1	Ca_Kabuli_Chr05	23670171	AA	CC	CC	INTERGENIC			
SNP_36097_A_23670548	NC_021164.1	Ca_Kabuli_Chr05	23670548	AA	GG	GG	INTERGENIC			
SNP_36098_A_23670567	NC_021164.1	Ca_Kabuli_Chr05	23670567	AA	GG	GG	INTERGENIC			
SNP_36099_A_23670617	NC_021164.1	Ca_Kabuli_Chr05	23670617	CC	TT	TT	INTERGENIC			
SNP_36100_A_23670762	NC_021164.1	Ca_Kabuli_Chr05	23670762	AA	GG	GG	INTERGENIC			
SNP_36101_A_23670780	NC_021164.1	Ca_Kabuli_Chr05	23670780	TT	CC	CC	INTERGENIC			
SNP_36102_A_23670875	NC_021164.1	Ca_Kabuli_Chr05	23670875	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36103_A_23670919	NC_021164.1	Ca_Kabuli_Chr05	23670919	TT	AA	AA	INTERGENIC		
SNP_36104_A_23670932	NC_021164.1	Ca_Kabuli_Chr05	23670932	AA	CC	CC	INTERGENIC		
SNP_36105_A_23671224	NC_021164.1	Ca_Kabuli_Chr05	23671224	TT	CC	CC	DRR	101514146	Unknown function
SNP_36106_A_23671250	NC_021164.1	Ca_Kabuli_Chr05	23671250	AA	GG	GG	DRR	101514146	Unknown function
SNP_36107_A_23671278	NC_021164.1	Ca_Kabuli_Chr05	23671278	TT	CC	CC	DRR	101514146	Unknown function
SNP_36108_A_23671337	NC_021164.1	Ca_Kabuli_Chr05	23671337	TT	CC	CC	DRR	101514146	Unknown function
SNP_36109_A_23671356	NC_021164.1	Ca_Kabuli_Chr05	23671356	CC	AA	AA	DRR	101514146	Unknown function
SNP_36110_A_23671386	NC_021164.1	Ca_Kabuli_Chr05	23671386	TT	CC	CC	DRR	101514146	Unknown function
SNP_36112_A_23674026	NC_021164.1	Ca_Kabuli_Chr05	23674026	CC	TT	TT	URR	101514146	Unknown function
SNP_36113_A_23674057	NC_021164.1	Ca_Kabuli_Chr05	23674057	AA	GG	GG	URR	101514146	Unknown function
SNP_36114_A_23674065	NC_021164.1	Ca_Kabuli_Chr05	23674065	AA	CC	CC	URR	101514146	Unknown function
SNP_36115_A_23674462	NC_021164.1	Ca_Kabuli_Chr05	23674462	TT	CC	CC	URR	101514146	Unknown function
SNP_36116_A_23674485	NC_021164.1	Ca_Kabuli_Chr05	23674485	AA	GG	GG	URR	101514146	Unknown function
SNP_36117_A_23674525	NC_021164.1	Ca_Kabuli_Chr05	23674525	TT	CC	CC	URR	101514146	Unknown function
SNP_36118_A_23674586	NC_021164.1	Ca_Kabuli_Chr05	23674586	TT	CC	CC	URR	101514146	Unknown function
SNP_36119_A_23674595	NC_021164.1	Ca_Kabuli_Chr05	23674595	TT	CC	CC	URR	101514146	Unknown function
SNP_36120_A_23674758	NC_021164.1	Ca_Kabuli_Chr05	23674758	TT	CC	CC	URR	101514146	Unknown function
SNP_36121_A_23674768	NC_021164.1	Ca_Kabuli_Chr05	23674768	CC	TT	TT	URR	101514146	Unknown function
SNP_36122_A_23674846	NC_021164.1	Ca_Kabuli_Chr05	23674846	TT	CC	CC	URR	101514146	Unknown function
SNP_36123_A_23674893	NC_021164.1	Ca_Kabuli_Chr05	23674893	AA	GG	GG	URR	101514146	Unknown function
SNP_36127_A_24007395	NC_021164.1	Ca_Kabuli_Chr05	24007395	CC	TT	TT	INTERGENIC		
SNP_36128_A_24007396	NC_021164.1	Ca_Kabuli_Chr05	24007396	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36129_A_24007434	NC_021164.1	Ca_Kabuli_Chr05	24007434	GG	AA	AA	INTERGENIC			
SNP_36130_A_24008088	NC_021164.1	Ca_Kabuli_Chr05	24008088	CC	AA	AA	INTERGENIC			
SNP_36131_A_24032275	NC_021164.1	Ca_Kabuli_Chr05	24032275	TT	CC	CC	INTERGENIC			
SNP_36132_A_24095818	NC_021164.1	Ca_Kabuli_Chr05	24095818	AA	TT	TT	INTERGENIC			
SNP_36133_A_24097291	NC_021164.1	Ca_Kabuli_Chr05	24097291	TT	CC	CC	INTERGENIC			
SNP_36135_A_24124147	NC_021164.1	Ca_Kabuli_Chr05	24124147	TT	CC	CC	INTERGENIC			
SNP_36136_A_24124148	NC_021164.1	Ca_Kabuli_Chr05	24124148	CC	AA	AA	INTERGENIC			
SNP_36137_A_24124239	NC_021164.1	Ca_Kabuli_Chr05	24124239	AA	GG	GG	INTERGENIC			
SNP_36138_A_24124499	NC_021164.1	Ca_Kabuli_Chr05	24124499	AA	GG	GG	INTERGENIC			
SNP_36139_A_24124520	NC_021164.1	Ca_Kabuli_Chr05	24124520	AA	GG	GG	INTERGENIC			
SNP_36140_A_24147920	NC_021164.1	Ca_Kabuli_Chr05	24147920	GG	TT	TT	INTERGENIC			
SNP_36141_A_24147951	NC_021164.1	Ca_Kabuli_Chr05	24147951	TT	GG	GG	INTERGENIC			
SNP_36142_A_24147960	NC_021164.1	Ca_Kabuli_Chr05	24147960	CC	AA	AA	INTERGENIC			
SNP_36143_A_24171391	NC_021164.1	Ca_Kabuli_Chr05	24171391	AA	GG	GG	INTRON	101494174	proteasome activator subunit 4-like	
SNP_36144_A_24235883	NC_021164.1	Ca_Kabuli_Chr05	24235883	CC	TT	TT	INTRON	id102153	Unknown function	
SNP_36145_A_24235923	NC_021164.1	Ca_Kabuli_Chr05	24235923	GG	AA	AA	INTRON	id102153	Unknown function	
SNP_36146_A_24270348	NC_021164.1	Ca_Kabuli_Chr05	24270348	TT	GG	GG	INTERGENIC			
SNP_36147_A_24270727	NC_021164.1	Ca_Kabuli_Chr05	24270727	AA	GG	GG	INTERGENIC			
SNP_36148_A_24270798	NC_021164.1	Ca_Kabuli_Chr05	24270798	TT	GG	GG	INTERGENIC			
SNP_36149_A_24270884	NC_021164.1	Ca_Kabuli_Chr05	24270884	TT	CC	CC	INTERGENIC			
SNP_36150_A_24277168	NC_021164.1	Ca_Kabuli_Chr05	24277168	AA	GG	GG	INTERGENIC			
SNP_36151_A_24297764	NC_021164.1	Ca_Kabuli_Chr05	24297764	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36152_A_24302427	NC_021164.1	Ca_Kabuli_Chr05	24302427	CC	AA	AA	INTERGENIC		
SNP_36153_A_24302479	NC_021164.1	Ca_Kabuli_Chr05	24302479	AA	TT	TT	INTERGENIC		
SNP_36154_A_24327693	NC_021164.1	Ca_Kabuli_Chr05	24327693	AA	CC	CC	NON_SYNONYMOUS_CODING	101495132	Unknown function
SNP_36155_A_24327708	NC_021164.1	Ca_Kabuli_Chr05	24327708	AA	GG	GG	NON_SYNONYMOUS_CODING	101495132	Unknown function
SNP_36156_A_24327903	NC_021164.1	Ca_Kabuli_Chr05	24327903	CC	TT	TT	NON_SYNONYMOUS_CODING	101495132	Unknown function
SNP_36157_A_24334434	NC_021164.1	Ca_Kabuli_Chr05	24334434	AA	GG	GG	INTERGENIC		
SNP_36158_A_24461225	NC_021164.1	Ca_Kabuli_Chr05	24461225	CC	GG	GG	INTRON	101506970	neutral ceramidase
SNP_36159_A_24488052	NC_021164.1	Ca_Kabuli_Chr05	24488052	TT	CC	CC	URR	101508142	probable sugar phosphate/phosphate translocator At3g11320
SNP_36160_A_24505774	NC_021164.1	Ca_Kabuli_Chr05	24505774	TT	GG	GG	INTERGENIC		
SNP_36161_A_24505821	NC_021164.1	Ca_Kabuli_Chr05	24505821	CC	TT	TT	INTERGENIC		
SNP_36162_A_24505836	NC_021164.1	Ca_Kabuli_Chr05	24505836	AA	GG	GG	INTERGENIC		
SNP_36164_A_24532449	NC_021164.1	Ca_Kabuli_Chr05	24532449	CC	TT	TT	INTERGENIC		
SNP_36165_A_24532530	NC_021164.1	Ca_Kabuli_Chr05	24532530	CC	TT	TT	INTERGENIC		
SNP_36166_A_24532540	NC_021164.1	Ca_Kabuli_Chr05	24532540	AA	GG	GG	INTERGENIC		
SNP_36167_A_24532548	NC_021164.1	Ca_Kabuli_Chr05	24532548	TT	CC	CC	INTERGENIC		
SNP_36168_A_24532604	NC_021164.1	Ca_Kabuli_Chr05	24532604	GG	AA	AA	INTERGENIC		
SNP_36169_A_24532819	NC_021164.1	Ca_Kabuli_Chr05	24532819	AA	TT	TT	INTERGENIC		
SNP_36170_A_24532823	NC_021164.1	Ca_Kabuli_Chr05	24532823	GG	TT	TT	INTERGENIC		
SNP_36171_A_24532855	NC_021164.1	Ca_Kabuli_Chr05	24532855	TT	CC	CC	INTERGENIC		
SNP_36172_A_24532904	NC_021164.1	Ca_Kabuli_Chr05	24532904	CC	TT	TT	INTERGENIC		
SNP_36174_A_24639135	NC_021164.1	Ca_Kabuli_Chr05	24639135	TT	GG	GG	INTRON	101497753	disease resistance protein At4g27190-like
SNP_36175_A_24639254	NC_021164.1	Ca_Kabuli_Chr05	24639254	TT	CC	CC	INTRON	101497753	disease resistance protein At4g27190-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36176_A_24688483	NC_021164.1	Ca_Kabuli_Chr05	24688483	CC	TT	TT	URR	101513932	laccase-4-like
SNP_36177_A_24712731	NC_021164.1	Ca_Kabuli_Chr05	24712731	AA	TT	TT	INTERGENIC		
SNP_36178_A_24743080	NC_021164.1	Ca_Kabuli_Chr05	24743080	TT	GG	GG	INTERGENIC		
SNP_36179_A_24755893	NC_021164.1	Ca_Kabuli_Chr05	24755893	GG	TT	TT	INTERGENIC		
SNP_36180_A_24761256	NC_021164.1	Ca_Kabuli_Chr05	24761256	TT	GG	GG	INTERGENIC		
SNP_36181_A_24761274	NC_021164.1	Ca_Kabuli_Chr05	24761274	GG	AA	AA	INTERGENIC		
SNP_36182_A_24764639	NC_021164.1	Ca_Kabuli_Chr05	24764639	CC	GG	GG	INTERGENIC		
SNP_36183_A_24764659	NC_021164.1	Ca_Kabuli_Chr05	24764659	AA	TT	TT	INTERGENIC		
SNP_36184_A_24764942	NC_021164.1	Ca_Kabuli_Chr05	24764942	TT	CC	CC	INTERGENIC		
SNP_36185_A_24764979	NC_021164.1	Ca_Kabuli_Chr05	24764979	CC	TT	TT	INTERGENIC		
SNP_36186_A_24764996	NC_021164.1	Ca_Kabuli_Chr05	24764996	CC	AA	AA	INTERGENIC		
SNP_36187_A_24764999	NC_021164.1	Ca_Kabuli_Chr05	24764999	GG	AA	AA	INTERGENIC		
SNP_36188_A_24862023	NC_021164.1	Ca_Kabuli_Chr05	24862023	TT	AA	AA	INTERGENIC		
SNP_36189_A_24862085	NC_021164.1	Ca_Kabuli_Chr05	24862085	TT	CC	CC	INTERGENIC		
SNP_36190_A_24862734	NC_021164.1	Ca_Kabuli_Chr05	24862734	TT	AA	AA	INTERGENIC		
SNP_36191_A_24863175	NC_021164.1	Ca_Kabuli_Chr05	24863175	AA	GG	GG	INTERGENIC		
SNP_36192_A_24863994	NC_021164.1	Ca_Kabuli_Chr05	24863994	AA	CC	CC	INTERGENIC		
SNP_36194_A_24910390	NC_021164.1	Ca_Kabuli_Chr05	24910390	AA	GG	GG	INTERGENIC		
SNP_36195_A_24910412	NC_021164.1	Ca_Kabuli_Chr05	24910412	AA	GG	GG	INTERGENIC		
SNP_36196_A_24922969	NC_021164.1	Ca_Kabuli_Chr05	24922969	TT	GG	GG	INTERGENIC		
SNP_36197_A_24922987	NC_021164.1	Ca_Kabuli_Chr05	24922987	CC	AA	AA	INTERGENIC		
SNP_36198_A_24923142	NC_021164.1	Ca_Kabuli_Chr05	24923142	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36199_A_24923333	NC_021164.1	Ca_Kabuli_Chr05	24923333	GG	AA	AA	INTERGENIC			
SNP_36200_A_24923377	NC_021164.1	Ca_Kabuli_Chr05	24923377	CC	TT	TT	INTERGENIC			
SNP_36201_A_24923424	NC_021164.1	Ca_Kabuli_Chr05	24923424	AA	GG	GG	INTERGENIC			
SNP_36202_A_24928850	NC_021164.1	Ca_Kabuli_Chr05	24928850	GG	AA	AA	INTERGENIC			
SNP_36204_A_24981772	NC_021164.1	Ca_Kabuli_Chr05	24981772	TT	AA	AA	INTERGENIC			
SNP_36205_A_24982143	NC_021164.1	Ca_Kabuli_Chr05	24982143	GG	AA	AA	INTERGENIC			
SNP_36207_A_24983287	NC_021164.1	Ca_Kabuli_Chr05	24983287	TT	CC	CC	INTERGENIC			
SNP_36208_A_24983327	NC_021164.1	Ca_Kabuli_Chr05	24983327	AA	CC	CC	INTERGENIC			
SNP_36209_A_24983566	NC_021164.1	Ca_Kabuli_Chr05	24983566	TT	CC	CC	INTERGENIC			
SNP_36210_A_24994915	NC_021164.1	Ca_Kabuli_Chr05	24994915	AA	GG	GG	INTERGENIC			
SNP_36211_A_24998254	NC_021164.1	Ca_Kabuli_Chr05	24998254	GG	AA	AA	INTERGENIC			
SNP_36213_A_25055499	NC_021164.1	Ca_Kabuli_Chr05	25055499	CC	TT	TT	DRR	101491045	cell division control protein 6 homolog B-like	
SNP_36214_A_25106662	NC_021164.1	Ca_Kabuli_Chr05	25106662	AA	GG	GG	INTERGENIC			
SNP_36215_A_25107702	NC_021164.1	Ca_Kabuli_Chr05	25107702	CC	TT	TT	INTERGENIC			
SNP_36216_A_25124326	NC_021164.1	Ca_Kabuli_Chr05	25124326	TT	CC	CC	INTERGENIC			
SNP_36219_A_25230933	NC_021164.1	Ca_Kabuli_Chr05	25230933	GG	TT	TT	INTERGENIC			
SNP_36220_A_25232440	NC_021164.1	Ca_Kabuli_Chr05	25232440	TT	CC	CC	INTERGENIC			
SNP_36221_A_25232455	NC_021164.1	Ca_Kabuli_Chr05	25232455	GG	CC	CC	INTERGENIC			
SNP_36222_A_25232466	NC_021164.1	Ca_Kabuli_Chr05	25232466	AA	CC	CC	INTERGENIC			
SNP_36223_A_25232512	NC_021164.1	Ca_Kabuli_Chr05	25232512	AA	CC	CC	INTERGENIC			
SNP_36224_A_25232520	NC_021164.1	Ca_Kabuli_Chr05	25232520	TT	CC	CC	INTERGENIC			
SNP_36225_A_25232530	NC_021164.1	Ca_Kabuli_Chr05	25232530	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36226_A_25232566	NC_021164.1	Ca_Kabuli_Chr05	25232566	AA	TT	TT	INTERGENIC		
SNP_36227_A_25232566	NC_021164.1	Ca_Kabuli_Chr05	25232566	TT	AA	AA	INTERGENIC		
SNP_36228_A_25232711	NC_021164.1	Ca_Kabuli_Chr05	25232711	AA	TT	TT	INTERGENIC		
SNP_36229_A_25240259	NC_021164.1	Ca_Kabuli_Chr05	25240259	AA	GG	GG	INTERGENIC		
SNP_36230_A_25242183	NC_021164.1	Ca_Kabuli_Chr05	25242183	CC	GG	GG	INTERGENIC		
SNP_36231_A_25242488	NC_021164.1	Ca_Kabuli_Chr05	25242488	TT	AA	AA	DRR	101500342	uncharacterized LOC101500342
SNP_36232_A_25246214	NC_021164.1	Ca_Kabuli_Chr05	25246214	TT	CC	CC	NON_SYNONYMOUS_CODING	101500342	uncharacterized LOC101500342
SNP_36233_A_25246248	NC_021164.1	Ca_Kabuli_Chr05	25246248	AA	CC	CC	NON_SYNONYMOUS_CODING	101500342	uncharacterized LOC101500342
SNP_36235_A_25287534	NC_021164.1	Ca_Kabuli_Chr05	25287534	GG	TT	TT	INTERGENIC		
SNP_36237_A_25298833	NC_021164.1	Ca_Kabuli_Chr05	25298833	AA	TT	TT	INTERGENIC		
SNP_36238_A_25298888	NC_021164.1	Ca_Kabuli_Chr05	25298888	TT	AA	AA	INTERGENIC		
SNP_36239_A_25298890	NC_021164.1	Ca_Kabuli_Chr05	25298890	CC	TT	TT	INTERGENIC		
SNP_36240_A_25298896	NC_021164.1	Ca_Kabuli_Chr05	25298896	TT	CC	CC	INTERGENIC		
SNP_36241_A_25298901	NC_021164.1	Ca_Kabuli_Chr05	25298901	CC	AA	AA	INTERGENIC		
SNP_36242_A_25299038	NC_021164.1	Ca_Kabuli_Chr05	25299038	GG	AA	TT	INTERGENIC		
SNP_36243_A_25299069	NC_021164.1	Ca_Kabuli_Chr05	25299069	CC	TT	TT	INTERGENIC		
SNP_36244_A_25301448	NC_021164.1	Ca_Kabuli_Chr05	25301448	CC	TT	TT	INTERGENIC		
SNP_36245_A_25304307	NC_021164.1	Ca_Kabuli_Chr05	25304307	TT	CC	CC	INTERGENIC		
SNP_36246_A_25304311	NC_021164.1	Ca_Kabuli_Chr05	25304311	GG	TT	TT	INTERGENIC		
SNP_36247_A_25308653	NC_021164.1	Ca_Kabuli_Chr05	25308653	CC	TT	TT	INTERGENIC		
SNP_36248_A_25424017	NC_021164.1	Ca_Kabuli_Chr05	25424017	AA	CC	CC	INTERGENIC		
SNP_36249_A_25424032	NC_021164.1	Ca_Kabuli_Chr05	25424032	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36250_A_25440599	NC_021164.1	Ca_Kabuli_Chr05	25440599	CC	TT	TT	INTERGENIC		
SNP_36251_A_25461866	NC_021164.1	Ca_Kabuli_Chr05	25461866	TT	CC	CC	INTERGENIC		
SNP_36252_A_25464920	NC_021164.1	Ca_Kabuli_Chr05	25464920	AA	GG	GG	INTERGENIC		
SNP_36253_A_25534738	NC_021164.1	Ca_Kabuli_Chr05	25534738	AA	GG	GG	INTERGENIC		
SNP_36254_A_25534789	NC_021164.1	Ca_Kabuli_Chr05	25534789	GG	AA	AA	INTERGENIC		
SNP_36255_A_25566173	NC_021164.1	Ca_Kabuli_Chr05	25566173	TT	GG	GG	INTRON	101504070	gibberellin 2-beta-dioxygenase 8
SNP_36258_A_25690627	NC_021164.1	Ca_Kabuli_Chr05	25690627	TT	AA	AA	URR	101505351	clathrin heavy chain 1-like
SNP_36259_A_25690880	NC_021164.1	Ca_Kabuli_Chr05	25690880	AA	GG	GG	URR	101505351	clathrin heavy chain 1-like
SNP_36260_A_25690882	NC_021164.1	Ca_Kabuli_Chr05	25690882	TT	GG	GG	URR	101505351	clathrin heavy chain 1-like
SNP_36261_A_25719053	NC_021164.1	Ca_Kabuli_Chr05	25719053	AA	GG	GG	INTERGENIC		
SNP_36263_A_25733650	NC_021164.1	Ca_Kabuli_Chr05	25733650	AA	GG	GG	INTERGENIC		
SNP_36264_A_25733677	NC_021164.1	Ca_Kabuli_Chr05	25733677	TT	CC	CC	INTERGENIC		
SNP_36265_A_25733686	NC_021164.1	Ca_Kabuli_Chr05	25733686	AA	CC	CC	INTERGENIC		
SNP_36266_A_25756745	NC_021164.1	Ca_Kabuli_Chr05	25756745	AA	GG	GG	INTERGENIC		
SNP_36268_A_25791477	NC_021164.1	Ca_Kabuli_Chr05	25791477	AA	GG	GG	DRR	101410592	transfer RNA glutamic acid (anticodon CUC)
SNP_36269_A_25803726	NC_021164.1	Ca_Kabuli_Chr05	25803726	CC	GG	GG	INTERGENIC		
SNP_36270_A_25803731	NC_021164.1	Ca_Kabuli_Chr05	25803731	CC	TT	TT	INTERGENIC		
SNP_36272_A_25803883	NC_021164.1	Ca_Kabuli_Chr05	25803883	TT	GG	GG	INTERGENIC		
SNP_36273_A_25803912	NC_021164.1	Ca_Kabuli_Chr05	25803912	TT	CC	CC	INTERGENIC		
SNP_36275_A_25804029	NC_021164.1	Ca_Kabuli_Chr05	25804029	GG	AA	AA	INTERGENIC		
SNP_36276_A_25804038	NC_021164.1	Ca_Kabuli_Chr05	25804038	TT	AA	AA	INTERGENIC		
SNP_36277_A_25804149	NC_021164.1	Ca_Kabuli_Chr05	25804149	GG	AA	AA	INTERGENIC		

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SNP_36278_A_25804151	NC_021164.1	Ca_Kabuli_Chr05	25804151	AA	GG	GG	INTERGENIC			
SNP_36279_A_25804156	NC_021164.1	Ca_Kabuli_Chr05	25804156	AA	CC	CC	INTERGENIC			
SNP_36280_A_25804159	NC_021164.1	Ca_Kabuli_Chr05	25804159	GG	CC	CC	INTERGENIC			
SNP_36281_A_25804165	NC_021164.1	Ca_Kabuli_Chr05	25804165	CC	GG	GG	INTERGENIC			
SNP_36282_A_25804190	NC_021164.1	Ca_Kabuli_Chr05	25804190	CC	TT	TT	INTERGENIC			
SNP_36283_A_25804195	NC_021164.1	Ca_Kabuli_Chr05	25804195	TT	AA	AA	INTERGENIC			
SNP_36284_A_25804256	NC_021164.1	Ca_Kabuli_Chr05	25804256	AA	TT	TT	INTERGENIC			
SNP_36285_A_25804289	NC_021164.1	Ca_Kabuli_Chr05	25804289	TT	CC	CC	INTERGENIC			
SNP_36286_A_25836446	NC_021164.1	Ca_Kabuli_Chr05	25836446	CC	AA	AA	INTERGENIC			
SNP_36288_A_25836538	NC_021164.1	Ca_Kabuli_Chr05	25836538	TT	AA	AA	INTERGENIC			
SNP_36289_A_25836682	NC_021164.1	Ca_Kabuli_Chr05	25836682	AA	GG	GG	INTERGENIC			
SNP_36290_A_25836690	NC_021164.1	Ca_Kabuli_Chr05	25836690	AA	CC	CC	INTERGENIC			
SNP_36291_A_25836706	NC_021164.1	Ca_Kabuli_Chr05	25836706	TT	CC	CC	INTERGENIC			
SNP_36292_A_25840256	NC_021164.1	Ca_Kabuli_Chr05	25840256	AA	GG	GG	INTERGENIC			
SNP_36293_A_25847880	NC_021164.1	Ca_Kabuli_Chr05	25847880	AA	CC	CC	INTERGENIC			
SNP_36294_A_25848101	NC_021164.1	Ca_Kabuli_Chr05	25848101	TT	CC	CC	INTERGENIC			
SNP_36295_A_25861494	NC_021164.1	Ca_Kabuli_Chr05	25861494	TT	CC	CC	INTERGENIC			
SNP_36296_A_25861512	NC_021164.1	Ca_Kabuli_Chr05	25861512	TT	AA	AA	INTERGENIC			
SNP_36297_A_25861617	NC_021164.1	Ca_Kabuli_Chr05	25861617	TT	CC	CC	INTERGENIC			
SNP_36298_A_25861960	NC_021164.1	Ca_Kabuli_Chr05	25861960	GG	AA	AA	INTERGENIC			
SNP_36299_A_25861967	NC_021164.1	Ca_Kabuli_Chr05	25861967	AA	TT	TT	INTERGENIC			
SNP_36300_A_25863687	NC_021164.1	Ca_Kabuli_Chr05	25863687	CC	TT	TT	INTERGENIC			

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SNP_36301_A_25878933	NC_021164.1	Ca_Kabuli_Chr05	25878933	GG	AA	AA	INTERGENIC		
SNP_36303_A_25948263	NC_021164.1	Ca_Kabuli_Chr05	25948263	TT	GG	GG	INTRON	101502562	uncharacterized LOC101502562
SNP_36304_A_25967565	NC_021164.1	Ca_Kabuli_Chr05	25967565	CC	TT	TT	INTRON	101502878	isoleucine N-monooxygenase 2-like
SNP_36305_A_26046181	NC_021164.1	Ca_Kabuli_Chr05	26046181	GG	CC	CC	INTERGENIC		
SNP_36306_A_26077393	NC_021164.1	Ca_Kabuli_Chr05	26077393	AA	GG	GG	INTERGENIC		
SNP_36307_A_26077524	NC_021164.1	Ca_Kabuli_Chr05	26077524	CC	AA	AA	INTERGENIC		
SNP_36308_A_26077754	NC_021164.1	Ca_Kabuli_Chr05	26077754	GG	TT	TT	INTERGENIC		
SNP_36309_A_26077808	NC_021164.1	Ca_Kabuli_Chr05	26077808	CC	TT	TT	INTERGENIC		
SNP_36310_A_26077864	NC_021164.1	Ca_Kabuli_Chr05	26077864	TT	GG	GG	INTERGENIC		
SNP_36311_A_26077896	NC_021164.1	Ca_Kabuli_Chr05	26077896	AA	CC	CC	INTERGENIC		
SNP_36312_A_26107247	NC_021164.1	Ca_Kabuli_Chr05	26107247	AA	CC	CC	URR	101512315	mitogen-activated protein kinase kinase kinase 10
SNP_36313_A_26141735	NC_021164.1	Ca_Kabuli_Chr05	26141735	TT	CC	CC	INTERGENIC		
SNP_36314_A_26151521	NC_021164.1	Ca_Kabuli_Chr05	26151521	CC	TT	TT	INTERGENIC		
SNP_36315_A_26156981	NC_021164.1	Ca_Kabuli_Chr05	26156981	AA	TT	TT	INTERGENIC		
SNP_36316_A_26160149	NC_021164.1	Ca_Kabuli_Chr05	26160149	AA	GG	GG	INTERGENIC		
SNP_36317_A_26240544	NC_021164.1	Ca_Kabuli_Chr05	26240544	TT	GG	GG	INTERGENIC		
SNP_36318_A_26263298	NC_021164.1	Ca_Kabuli_Chr05	26263298	TT	CC	CC	INTERGENIC		
SNP_36319_A_26285349	NC_021164.1	Ca_Kabuli_Chr05	26285349	AA	GG	GG	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36320_A_26285352	NC_021164.1	Ca_Kabuli_Chr05	26285352	GG	AA	AA	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36321_A_26285356	NC_021164.1	Ca_Kabuli_Chr05	26285356	CC	TT	TT	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36322_A_26285357	NC_021164.1	Ca_Kabuli_Chr05	26285357	AA	CC	CC	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36323_A_26285369	NC_021164.1	Ca_Kabuli_Chr05	26285369	TT	AA	AA	URR	101488643	UDP-glycosyltransferase 87A1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36324_A_26285370	NC_021164.1	Ca_Kabuli_Chr05	26285370	TT	CC	CC	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36325_A_26285400	NC_021164.1	Ca_Kabuli_Chr05	26285400	TT	AA	AA	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36326_A_26285409	NC_021164.1	Ca_Kabuli_Chr05	26285409	CC	TT	TT	URR	101488643	UDP-glycosyltransferase 87A1-like
SNP_36327_A_26308258	NC_021164.1	Ca_Kabuli_Chr05	26308258	CC	TT	TT	DRR	101505129	triosephosphate isomerase, cytosolic-like
SNP_36328_A_26327343	NC_021164.1	Ca_Kabuli_Chr05	26327343	TT	CC	CC	INTERGENIC		
SNP_36329_A_26327344	NC_021164.1	Ca_Kabuli_Chr05	26327344	TT	CC	CC	INTERGENIC		
SNP_36330_A_26330011	NC_021164.1	Ca_Kabuli_Chr05	26330011	TT	AA	AA	INTERGENIC		
SNP_36331_A_26435982	NC_021164.1	Ca_Kabuli_Chr05	26435982	GG	AA	AA	INTERGENIC		
SNP_36332_A_26449326	NC_021164.1	Ca_Kabuli_Chr05	26449326	CC	TT	TT	INTERGENIC		
SNP_36333_A_26454172	NC_021164.1	Ca_Kabuli_Chr05	26454172	GG	AA	AA	INTERGENIC		
SNP_36334_A_26454469	NC_021164.1	Ca_Kabuli_Chr05	26454469	AA	TT	TT	INTERGENIC		
SNP_36335_A_26454475	NC_021164.1	Ca_Kabuli_Chr05	26454475	TT	GG	GG	INTERGENIC		
SNP_36336_A_26454480	NC_021164.1	Ca_Kabuli_Chr05	26454480	TT	CC	CC	INTERGENIC		
SNP_36337_A_26454499	NC_021164.1	Ca_Kabuli_Chr05	26454499	AA	GG	GG	INTERGENIC		
SNP_36339_A_26457121	NC_021164.1	Ca_Kabuli_Chr05	26457121	TT	CC	CC	INTERGENIC		
SNP_36340_A_26457135	NC_021164.1	Ca_Kabuli_Chr05	26457135	TT	GG	GG	INTERGENIC		
SNP_36342_A_26457176	NC_021164.1	Ca_Kabuli_Chr05	26457176	AA	CC	CC	INTERGENIC		
SNP_36343_A_26457181	NC_021164.1	Ca_Kabuli_Chr05	26457181	TT	CC	CC	INTERGENIC		
SNP_36344_A_26457198	NC_021164.1	Ca_Kabuli_Chr05	26457198	TT	CC	CC	INTERGENIC		
SNP_36345_A_26457219	NC_021164.1	Ca_Kabuli_Chr05	26457219	AA	GG	GG	INTERGENIC		
SNP_36346_A_26461676	NC_021164.1	Ca_Kabuli_Chr05	26461676	CC	TT	TT	INTERGENIC		
SNP_36347_A_26512780	NC_021164.1	Ca_Kabuli_Chr05	26512780	TT	CC	CC	DRR	101507411	serine/threonine-protein phosphatase 7 long form homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36348_A_26514204	NC_021164.1	Ca_Kabuli_Chr05	26514204	CC	TT	TT	URR	101507090	uncharacterized LOC101507090
SNP_36349_A_26522992	NC_021164.1	Ca_Kabuli_Chr05	26522992	TT	CC	CC	INTERGENIC		
SNP_36350_A_26523392	NC_021164.1	Ca_Kabuli_Chr05	26523392	AA	GG	GG	INTERGENIC		
SNP_36351_A_26523419	NC_021164.1	Ca_Kabuli_Chr05	26523419	TT	CC	CC	INTERGENIC		
SNP_36352_A_26541490	NC_021164.1	Ca_Kabuli_Chr05	26541490	GG	AA	AA	INTERGENIC		
SNP_36353_A_26614787	NC_021164.1	Ca_Kabuli_Chr05	26614787	AA	GG	GG	DRR	101497086	U-box domain-containing protein 4
SNP_36354_A_26629572	NC_021164.1	Ca_Kabuli_Chr05	26629572	TT	AA	AA	INTERGENIC		
SNP_36355_A_26706705	NC_021164.1	Ca_Kabuli_Chr05	26706705	AA	GG	GG	INTERGENIC		
SNP_36356_A_26706708	NC_021164.1	Ca_Kabuli_Chr05	26706708	TT	GG	GG	INTERGENIC		
SNP_36359_A_26889308	NC_021164.1	Ca_Kabuli_Chr05	26889308	CC	TT	TT	INTERGENIC		
SNP_36360_A_26889327	NC_021164.1	Ca_Kabuli_Chr05	26889327	TT	AA	AA	INTERGENIC		
SNP_36361_A_26889404	NC_021164.1	Ca_Kabuli_Chr05	26889404	CC	TT	TT	INTERGENIC		
SNP_36362_A_26889407	NC_021164.1	Ca_Kabuli_Chr05	26889407	TT	GG	GG	INTERGENIC		
SNP_36364_A_26889538	NC_021164.1	Ca_Kabuli_Chr05	26889538	GG	AA	AA	INTERGENIC		
SNP_36365_A_26889539	NC_021164.1	Ca_Kabuli_Chr05	26889539	TT	CC	CC	INTERGENIC		
SNP_36366_A_26889555	NC_021164.1	Ca_Kabuli_Chr05	26889555	GG	AA	AA	INTERGENIC		
SNP_36367_A_26889557	NC_021164.1	Ca_Kabuli_Chr05	26889557	TT	CC	CC	INTERGENIC		
SNP_36369_A_26987528	NC_021164.1	Ca_Kabuli_Chr05	26987528	AA	CC	CC	NON_SYNONYMOUS_CODING	101513174	uncharacterized LOC101513174
SNP_36370_A_26987645	NC_021164.1	Ca_Kabuli_Chr05	26987645	TT	AA	AA	SYNONYMOUS_CODING	101513174	uncharacterized LOC101513174
SNP_36371_A_26987679	NC_021164.1	Ca_Kabuli_Chr05	26987679	AA	GG	GG	NON_SYNONYMOUS_CODING	101513174	uncharacterized LOC101513174
SNP_36372_A_26987707	NC_021164.1	Ca_Kabuli_Chr05	26987707	TT	CC	CC	NON_SYNONYMOUS_CODING	101513174	uncharacterized LOC101513174
SNP_36373_A_26987788	NC_021164.1	Ca_Kabuli_Chr05	26987788	AA	GG	GG	STOP_LOST	101513174	uncharacterized LOC101513174

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36374_A_26988136	NC_021164.1	Ca_Kabuli_Chr05	26988136	GG	TT	TT	URR	101513174	uncharacterized LOC101513174
SNP_36375_A_26988162	NC_021164.1	Ca_Kabuli_Chr05	26988162	TT	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36376_A_26988206	NC_021164.1	Ca_Kabuli_Chr05	26988206	CC	TT	TT	URR	101513174	uncharacterized LOC101513174
SNP_36377_A_26988211	NC_021164.1	Ca_Kabuli_Chr05	26988211	CC	TT	TT	URR	101513174	uncharacterized LOC101513174
SNP_36378_A_26988271	NC_021164.1	Ca_Kabuli_Chr05	26988271	TT	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36379_A_26988367	NC_021164.1	Ca_Kabuli_Chr05	26988367	TT	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36380_A_26988417	NC_021164.1	Ca_Kabuli_Chr05	26988417	TT	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36381_A_26988445	NC_021164.1	Ca_Kabuli_Chr05	26988445	TT	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36382_A_26988967	NC_021164.1	Ca_Kabuli_Chr05	26988967	AA	GG	GG	URR	101513174	uncharacterized LOC101513174
SNP_36383_A_26989268	NC_021164.1	Ca_Kabuli_Chr05	26989268	TT	AA	AA	URR	101513174	uncharacterized LOC101513174
SNP_36384_A_26989282	NC_021164.1	Ca_Kabuli_Chr05	26989282	AA	CC	CC	URR	101513174	uncharacterized LOC101513174
SNP_36385_A_26989457	NC_021164.1	Ca_Kabuli_Chr05	26989457	GG	AA	AA	URR	101513174	uncharacterized LOC101513174
SNP_36386_A_26991431	NC_021164.1	Ca_Kabuli_Chr05	26991431	AA	GG	GG	INTERGENIC		
SNP_36387_A_26994821	NC_021164.1	Ca_Kabuli_Chr05	26994821	TT	GG	GG	INTERGENIC		
SNP_36388_A_26994864	NC_021164.1	Ca_Kabuli_Chr05	26994864	TT	CC	CC	INTERGENIC		
SNP_36389_A_26994930	NC_021164.1	Ca_Kabuli_Chr05	26994930	TT	CC	CC	INTERGENIC		
SNP_36390_A_26994958	NC_021164.1	Ca_Kabuli_Chr05	26994958	TT	CC	CC	INTERGENIC		
SNP_36391_A_26994986	NC_021164.1	Ca_Kabuli_Chr05	26994986	TT	CC	CC	INTERGENIC		
SNP_36392_A_26995062	NC_021164.1	Ca_Kabuli_Chr05	26995062	AA	GG	GG	INTERGENIC		
SNP_36393_A_26995118	NC_021164.1	Ca_Kabuli_Chr05	26995118	GG	AA	AA	INTERGENIC		
SNP_36394_A_26995132	NC_021164.1	Ca_Kabuli_Chr05	26995132	AA	TT	TT	INTERGENIC		
SNP_36396_A_26996013	NC_021164.1	Ca_Kabuli_Chr05	26996013	TT	CC	CC	DRR	101503208	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36397_A_26996045	NC_021164.1	Ca_Kabuli_Chr05	26996045	CC	AA	AA	DRR	101503208	Unknown function
SNP_36398_A_26996074	NC_021164.1	Ca_Kabuli_Chr05	26996074	TT	CC	CC	DRR	101503208	Unknown function
SNP_36399_A_26996096	NC_021164.1	Ca_Kabuli_Chr05	26996096	AA	GG	GG	DRR	101503208	Unknown function
SNP_36400_A_26996104	NC_021164.1	Ca_Kabuli_Chr05	26996104	TT	CC	CC	DRR	101503208	Unknown function
SNP_36401_A_26996105	NC_021164.1	Ca_Kabuli_Chr05	26996105	TT	CC	CC	DRR	101503208	Unknown function
SNP_36402_A_26996106	NC_021164.1	Ca_Kabuli_Chr05	26996106	AA	GG	GG	DRR	101503208	Unknown function
SNP_36403_A_26996197	NC_021164.1	Ca_Kabuli_Chr05	26996197	AA	GG	GG	DRR	101503208	Unknown function
SNP_36404_A_26996207	NC_021164.1	Ca_Kabuli_Chr05	26996207	TT	CC	CC	DRR	101503208	Unknown function
SNP_36405_A_26996218	NC_021164.1	Ca_Kabuli_Chr05	26996218	TT	GG	GG	DRR	101503208	Unknown function
SNP_36406_A_26996236	NC_021164.1	Ca_Kabuli_Chr05	26996236	AA	GG	GG	DRR	101503208	Unknown function
SNP_36407_A_26996283	NC_021164.1	Ca_Kabuli_Chr05	26996283	TT	CC	CC	DRR	101503208	Unknown function
SNP_36408_A_26996286	NC_021164.1	Ca_Kabuli_Chr05	26996286	TT	CC	CC	INTERGENIC		
SNP_36409_A_26996289	NC_021164.1	Ca_Kabuli_Chr05	26996289	AA	GG	GG	INTERGENIC		
SNP_36410_A_26996293	NC_021164.1	Ca_Kabuli_Chr05	26996293	TT	CC	CC	INTERGENIC		
SNP_36411_A_26996302	NC_021164.1	Ca_Kabuli_Chr05	26996302	TT	GG	GG	INTERGENIC		
SNP_36412_A_26996347	NC_021164.1	Ca_Kabuli_Chr05	26996347	AA	GG	GG	INTERGENIC		
SNP_36413_A_26996352	NC_021164.1	Ca_Kabuli_Chr05	26996352	TT	CC	CC	INTERGENIC		
SNP_36414_A_26996382	NC_021164.1	Ca_Kabuli_Chr05	26996382	AA	GG	GG	INTERGENIC		
SNP_36415_A_26996391	NC_021164.1	Ca_Kabuli_Chr05	26996391	TT	GG	GG	INTERGENIC		
SNP_36416_A_26996409	NC_021164.1	Ca_Kabuli_Chr05	26996409	AA	CC	CC	INTERGENIC		
SNP_36417_A_26996436	NC_021164.1	Ca_Kabuli_Chr05	26996436	AA	GG	GG	INTERGENIC		
SNP_36418_A_26996475	NC_021164.1	Ca_Kabuli_Chr05	26996475	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36419_A_26996485	NC_021164.1	Ca_Kabuli_Chr05	26996485	AA	GG	GG	INTERGENIC			
SNP_36420_A_26996515	NC_021164.1	Ca_Kabuli_Chr05	26996515	TT	CC	CC	INTERGENIC			
SNP_36421_A_26996536	NC_021164.1	Ca_Kabuli_Chr05	26996536	TT	GG	GG	INTERGENIC			
SNP_36422_A_26996555	NC_021164.1	Ca_Kabuli_Chr05	26996555	TT	CC	CC	INTERGENIC			
SNP_36423_A_26996764	NC_021164.1	Ca_Kabuli_Chr05	26996764	AA	GG	GG	INTERGENIC			
SNP_36424_A_26996793	NC_021164.1	Ca_Kabuli_Chr05	26996793	AA	GG	GG	INTERGENIC			
SNP_36426_A_26996819	NC_021164.1	Ca_Kabuli_Chr05	26996819	CC	TT	TT	INTERGENIC			
SNP_36427_A_26996903	NC_021164.1	Ca_Kabuli_Chr05	26996903	GG	AA	AA	INTERGENIC			
SNP_36428_A_26996912	NC_021164.1	Ca_Kabuli_Chr05	26996912	GG	AA	AA	INTERGENIC			
SNP_36429_A_26996927	NC_021164.1	Ca_Kabuli_Chr05	26996927	AA	GG	GG	INTERGENIC			
SNP_36430_A_26997057	NC_021164.1	Ca_Kabuli_Chr05	26997057	TT	CC	CC	INTERGENIC			
SNP_36431_A_26997067	NC_021164.1	Ca_Kabuli_Chr05	26997067	AA	GG	GG	INTERGENIC			
SNP_36432_A_26997209	NC_021164.1	Ca_Kabuli_Chr05	26997209	TT	CC	CC	INTERGENIC			
SNP_36433_A_26997245	NC_021164.1	Ca_Kabuli_Chr05	26997245	TT	CC	CC	INTERGENIC			
SNP_36434_A_26997263	NC_021164.1	Ca_Kabuli_Chr05	26997263	AA	CC	CC	INTERGENIC			
SNP_36435_A_26997489	NC_021164.1	Ca_Kabuli_Chr05	26997489	AA	GG	GG	INTERGENIC			
SNP_36436_A_26997512	NC_021164.1	Ca_Kabuli_Chr05	26997512	TT	CC	CC	INTERGENIC			
SNP_36437_A_26997632	NC_021164.1	Ca_Kabuli_Chr05	26997632	TT	GG	GG	INTERGENIC			
SNP_36438_A_26997647	NC_021164.1	Ca_Kabuli_Chr05	26997647	TT	CC	CC	INTERGENIC			
SNP_36439_A_26997826	NC_021164.1	Ca_Kabuli_Chr05	26997826	TT	CC	CC	DRR		101502877	Unknown function
SNP_36440_A_26997832	NC_021164.1	Ca_Kabuli_Chr05	26997832	TT	CC	CC	DRR		101502877	Unknown function
SNP_36441_A_26997868	NC_021164.1	Ca_Kabuli_Chr05	26997868	AA	CC	CC	DRR		101502877	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36442_A_26997927	NC_021164.1	Ca_Kabuli_Chr05	26997927	AA	CC	CC	DRR	101502877	Unknown function
SNP_36443_A_26997937	NC_021164.1	Ca_Kabuli_Chr05	26997937	TT	CC	CC	DRR	101502877	Unknown function
SNP_36444_A_26997968	NC_021164.1	Ca_Kabuli_Chr05	26997968	AA	GG	GG	DRR	101502877	Unknown function
SNP_36445_A_26997987	NC_021164.1	Ca_Kabuli_Chr05	26997987	TT	CC	CC	DRR	101502877	Unknown function
SNP_36446_A_26997997	NC_021164.1	Ca_Kabuli_Chr05	26997997	TT	GG	GG	DRR	101502877	Unknown function
SNP_36447_A_26998004	NC_021164.1	Ca_Kabuli_Chr05	26998004	TT	CC	CC	DRR	101502877	Unknown function
SNP_36448_A_26998028	NC_021164.1	Ca_Kabuli_Chr05	26998028	TT	CC	CC	DRR	101502877	Unknown function
SNP_36449_A_26998036	NC_021164.1	Ca_Kabuli_Chr05	26998036	AA	CC	CC	DRR	101502877	Unknown function
SNP_36450_A_26998051	NC_021164.1	Ca_Kabuli_Chr05	26998051	AA	GG	GG	DRR	101502877	Unknown function
SNP_36451_A_26998141	NC_021164.1	Ca_Kabuli_Chr05	26998141	AA	GG	GG	DRR	101502877	Unknown function
SNP_36452_A_26998172	NC_021164.1	Ca_Kabuli_Chr05	26998172	AA	CC	CC	DRR	101502877	Unknown function
SNP_36453_A_26998219	NC_021164.1	Ca_Kabuli_Chr05	26998219	TT	CC	CC	DRR	101502877	Unknown function
SNP_36454_A_26998354	NC_021164.1	Ca_Kabuli_Chr05	26998354	TT	CC	CC	DRR	101502877	Unknown function
SNP_36455_A_26998414	NC_021164.1	Ca_Kabuli_Chr05	26998414	TT	CC	CC	DRR	101502877	Unknown function
SNP_36456_A_26998429	NC_021164.1	Ca_Kabuli_Chr05	26998429	TT	CC	CC	DRR	101502877	Unknown function
SNP_36457_A_26998483	NC_021164.1	Ca_Kabuli_Chr05	26998483	TT	CC	CC	DRR	101502877	Unknown function
SNP_36458_A_26998558	NC_021164.1	Ca_Kabuli_Chr05	26998558	GG	CC	CC	DRR	101502877	Unknown function
SNP_36459_A_26998599	NC_021164.1	Ca_Kabuli_Chr05	26998599	TT	CC	CC	DRR	101502877	Unknown function
SNP_36460_A_26998614	NC_021164.1	Ca_Kabuli_Chr05	26998614	CC	GG	GG	DRR	101502877	Unknown function
SNP_36461_A_26998624	NC_021164.1	Ca_Kabuli_Chr05	26998624	TT	CC	CC	DRR	101502877	Unknown function
SNP_36462_A_26998653	NC_021164.1	Ca_Kabuli_Chr05	26998653	AA	GG	GG	DRR	101502877	Unknown function
SNP_36463_A_26998683	NC_021164.1	Ca_Kabuli_Chr05	26998683	TT	CC	CC	DRR	101502877	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36464_A_26998848	NC_021164.1	Ca_Kabuli_Chr05	26998848	AA	CC	CC	INTERGENIC		
SNP_36465_A_26998866	NC_021164.1	Ca_Kabuli_Chr05	26998866	AA	GG	GG	INTERGENIC		
SNP_36466_A_26998891	NC_021164.1	Ca_Kabuli_Chr05	26998891	AA	GG	GG	INTERGENIC		
SNP_36467_A_26998900	NC_021164.1	Ca_Kabuli_Chr05	26998900	AA	GG	GG	INTERGENIC		
SNP_36468_A_26998937	NC_021164.1	Ca_Kabuli_Chr05	26998937	GG	TT	TT	INTERGENIC		
SNP_36469_A_26999584	NC_021164.1	Ca_Kabuli_Chr05	26999584	TT	CC	CC	URR	101503208	Unknown function
SNP_36470_A_26999645	NC_021164.1	Ca_Kabuli_Chr05	26999645	GG	TT	TT	URR	101503208	Unknown function
SNP_36471_A_26999681	NC_021164.1	Ca_Kabuli_Chr05	26999681	AA	CC	CC	URR	101503208	Unknown function
SNP_36472_A_26999797	NC_021164.1	Ca_Kabuli_Chr05	26999797	AA	GG	GG	URR	101503208	Unknown function
SNP_36473_A_26999813	NC_021164.1	Ca_Kabuli_Chr05	26999813	TT	GG	GG	URR	101503208	Unknown function
SNP_36474_A_26999851	NC_021164.1	Ca_Kabuli_Chr05	26999851	CC	AA	AA	URR	101503208	Unknown function
SNP_36475_A_26999898	NC_021164.1	Ca_Kabuli_Chr05	26999898	AA	GG	GG	URR	101503208	Unknown function
SNP_36476_A_26999903	NC_021164.1	Ca_Kabuli_Chr05	26999903	TT	AA	AA	URR	101503208	Unknown function
SNP_36477_A_26999950	NC_021164.1	Ca_Kabuli_Chr05	26999950	AA	TT	TT	URR	101503208	Unknown function
SNP_36479_A_27000104	NC_021164.1	Ca_Kabuli_Chr05	27000104	AA	CC	CC	URR	101503208	Unknown function
SNP_36481_A_27000280	NC_021164.1	Ca_Kabuli_Chr05	27000280	TT	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36482_A_27000295	NC_021164.1	Ca_Kabuli_Chr05	27000295	AA	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36483_A_27000343	NC_021164.1	Ca_Kabuli_Chr05	27000343	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36484_A_27000385	NC_021164.1	Ca_Kabuli_Chr05	27000385	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36486_A_27000545	NC_021164.1	Ca_Kabuli_Chr05	27000545	GG	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36487_A_27000550	NC_021164.1	Ca_Kabuli_Chr05	27000550	CC	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_36488_A_27000627	NC_021164.1	Ca_Kabuli_Chr05	27000627	AA	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36489_A_27000630	NC_021164.1	Ca_Kabuli_Chr05	27000630	AA	GG	GG	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36490_A_27000723	NC_021164.1	Ca_Kabuli_Chr05	27000723	CC	TT	TT	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36492_A_27000810	NC_021164.1	Ca_Kabuli_Chr05	27000810	CC	TT	TT	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36494_A_27000878	NC_021164.1	Ca_Kabuli_Chr05	27000878	TT	AA	AA	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36495_A_27000886	NC_021164.1	Ca_Kabuli_Chr05	27000886	AA	CC	CC	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36496_A_27000994	NC_021164.1	Ca_Kabuli_Chr05	27000994	AA	CC	CC	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36497_A_27001020	NC_021164.1	Ca_Kabuli_Chr05	27001020	AA	CC	CC	DRR		101410558	transfer RNA methionine (anticodon CAU)
SNP_36498_A_27089812	NC_021164.1	Ca_Kabuli_Chr05	27089812	CC	GG	GG	INTERGENIC			
SNP_36499_A_27090240	NC_021164.1	Ca_Kabuli_Chr05	27090240	GG	AA	AA	INTERGENIC			
SNP_36500_A_27099221	NC_021164.1	Ca_Kabuli_Chr05	27099221	GG	AA	AA	INTERGENIC			
SNP_36502_A_27099232	NC_021164.1	Ca_Kabuli_Chr05	27099232	TT	AA	AA	INTERGENIC			
SNP_36503_A_27107256	NC_021164.1	Ca_Kabuli_Chr05	27107256	TT	CC	CC	INTERGENIC			
SNP_36504_A_27107343	NC_021164.1	Ca_Kabuli_Chr05	27107343	AA	TT	TT	INTERGENIC			
SNP_36505_A_27107349	NC_021164.1	Ca_Kabuli_Chr05	27107349	TT	CC	CC	INTERGENIC			
SNP_36506_A_27107383	NC_021164.1	Ca_Kabuli_Chr05	27107383	AA	TT	TT	INTERGENIC			
SNP_36507_A_27107639	NC_021164.1	Ca_Kabuli_Chr05	27107639	CC	TT	TT	INTERGENIC			
SNP_36508_A_27107725	NC_021164.1	Ca_Kabuli_Chr05	27107725	TT	AA	AA	INTERGENIC			
SNP_36509_A_27183668	NC_021164.1	Ca_Kabuli_Chr05	27183668	GG	AA	AA	URR		101506096	uncharacterized LOC101506096
SNP_36510_A_27245485	NC_021164.1	Ca_Kabuli_Chr05	27245485	GG	AA	AA	INTERGENIC			
SNP_36511_A_27269651	NC_021164.1	Ca_Kabuli_Chr05	27269651	CC	TT	TT	INTERGENIC			
SNP_36512_A_27276804	NC_021164.1	Ca_Kabuli_Chr05	27276804	AA	GG	GG	INTERGENIC			
SNP_36514_A_27367607	NC_021164.1	Ca_Kabuli_Chr05	27367607	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36516_A_27392954	NC_021164.1	Ca_Kabuli_Chr05	27392954	TT	CC	CC	INTERGENIC			
SNP_36518_A_27401836	NC_021164.1	Ca_Kabuli_Chr05	27401836	TT	CC	CC	INTERGENIC			
SNP_36519_A_27427468	NC_021164.1	Ca_Kabuli_Chr05	27427468	AA	TT	TT	INTERGENIC			
SNP_36520_A_27427473	NC_021164.1	Ca_Kabuli_Chr05	27427473	TT	CC	CC	INTERGENIC			
SNP_36521_A_27427508	NC_021164.1	Ca_Kabuli_Chr05	27427508	AA	GG	GG	INTERGENIC			
SNP_36522_A_27427515	NC_021164.1	Ca_Kabuli_Chr05	27427515	CC	AA	AA	INTERGENIC			
SNP_36523_A_27427530	NC_021164.1	Ca_Kabuli_Chr05	27427530	AA	CC	CC	INTERGENIC			
SNP_36524_A_27427533	NC_021164.1	Ca_Kabuli_Chr05	27427533	GG	TT	TT	INTERGENIC			
SNP_36525_A_27427534	NC_021164.1	Ca_Kabuli_Chr05	27427534	AA	TT	TT	INTERGENIC			
SNP_36526_A_27427556	NC_021164.1	Ca_Kabuli_Chr05	27427556	AA	CC	CC	INTERGENIC			
SNP_36527_A_27427557	NC_021164.1	Ca_Kabuli_Chr05	27427557	CC	AA	AA	INTERGENIC			
SNP_36528_A_27427565	NC_021164.1	Ca_Kabuli_Chr05	27427565	TT	AA	AA	INTERGENIC			
SNP_36529_A_27427608	NC_021164.1	Ca_Kabuli_Chr05	27427608	AA	GG	GG	INTERGENIC			
SNP_36530_A_27427622	NC_021164.1	Ca_Kabuli_Chr05	27427622	AA	CC	CC	INTERGENIC			
SNP_36531_A_27433779	NC_021164.1	Ca_Kabuli_Chr05	27433779	TT	CC	CC	INTERGENIC			
SNP_36532_A_27458394	NC_021164.1	Ca_Kabuli_Chr05	27458394	AA	TT	TT	INTERGENIC			
SNP_36533_A_27458395	NC_021164.1	Ca_Kabuli_Chr05	27458395	TT	CC	CC	INTERGENIC			
SNP_36536_A_27469165	NC_021164.1	Ca_Kabuli_Chr05	27469165	AA	GG	GG	INTERGENIC			
SNP_36539_A_27558093	NC_021164.1	Ca_Kabuli_Chr05	27558093	TT	CC	CC	URR	101515342	uncharacterized LOC101515342	
SNP_36540_A_27558302	NC_021164.1	Ca_Kabuli_Chr05	27558302	AA	GG	GG	INTERGENIC			
SNP_36541_A_27563077	NC_021164.1	Ca_Kabuli_Chr05	27563077	TT	AA	AA	INTERGENIC			
SNP_36542_A_27564998	NC_021164.1	Ca_Kabuli_Chr05	27564998	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36543_A_27567171	NC_021164.1	Ca_Kabuli_Chr05	27567171	AA	GG	GG	INTERGENIC		
SNP_36544_A_27567197	NC_021164.1	Ca_Kabuli_Chr05	27567197	AA	CC	CC	INTERGENIC		
SNP_36545_A_27567200	NC_021164.1	Ca_Kabuli_Chr05	27567200	CC	AA	AA	INTERGENIC		
SNP_36546_A_27567237	NC_021164.1	Ca_Kabuli_Chr05	27567237	TT	GG	GG	INTERGENIC		
SNP_36547_A_27567254	NC_021164.1	Ca_Kabuli_Chr05	27567254	AA	CC	CC	INTERGENIC		
SNP_36548_A_27567545	NC_021164.1	Ca_Kabuli_Chr05	27567545	GG	AA	AA	INTERGENIC		
SNP_36549_A_27567659	NC_021164.1	Ca_Kabuli_Chr05	27567659	TT	GG	GG	INTERGENIC		
SNP_36550_A_27567675	NC_021164.1	Ca_Kabuli_Chr05	27567675	TT	CC	CC	INTERGENIC		
SNP_36551_A_27567681	NC_021164.1	Ca_Kabuli_Chr05	27567681	TT	CC	CC	INTERGENIC		
SNP_36552_A_27567710	NC_021164.1	Ca_Kabuli_Chr05	27567710	AA	GG	GG	INTERGENIC		
SNP_36553_A_27567730	NC_021164.1	Ca_Kabuli_Chr05	27567730	GG	AA	AA	INTERGENIC		
SNP_36554_A_27567731	NC_021164.1	Ca_Kabuli_Chr05	27567731	TT	CC	CC	INTERGENIC		
SNP_36556_A_27662506	NC_021164.1	Ca_Kabuli_Chr05	27662506	GG	TT	TT	URR	101491570	transmembrane protein 56-B
SNP_36557_A_27673125	NC_021164.1	Ca_Kabuli_Chr05	27673125	AA	GG	GG	INTERGENIC		
SNP_36558_A_27674402	NC_021164.1	Ca_Kabuli_Chr05	27674402	TT	CC	CC	DRR	101492096	deoxyuridine 5-triphosphate nucleotidohydrolase-like
SNP_36560_A_27694847	NC_021164.1	Ca_Kabuli_Chr05	27694847	CC	TT	TT	INTERGENIC		
SNP_36561_A_27723398	NC_021164.1	Ca_Kabuli_Chr05	27723398	CC	TT	TT	INTERGENIC		
SNP_36562_A_27723692	NC_021164.1	Ca_Kabuli_Chr05	27723692	AA	GG	GG	INTERGENIC		
SNP_36563_A_27723695	NC_021164.1	Ca_Kabuli_Chr05	27723695	TT	GG	GG	INTERGENIC		
SNP_36564_A_27724342	NC_021164.1	Ca_Kabuli_Chr05	27724342	GG	CC	CC	URR	101494805	uncharacterized LOC101494805
SNP_36565_A_27724367	NC_021164.1	Ca_Kabuli_Chr05	27724367	AA	CC	CC	URR	101494805	uncharacterized LOC101494805
SNP_36567_A_27737309	NC_021164.1	Ca_Kabuli_Chr05	27737309	AA	GG	GG	SYNONYMOUS_CODING	101495459	uncharacterized LOC101495459

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36568_A_27761086	NC_021164.1	Ca_Kabuli_Chr05	27761086	CC	AA	AA	INTERGENIC		
SNP_36570_A_27775301	NC_021164.1	Ca_Kabuli_Chr05	27775301	AA	GG	GG	INTERGENIC		
SNP_36571_A_27782370	NC_021164.1	Ca_Kabuli_Chr05	27782370	AA	CC	CC	INTERGENIC		
SNP_36572_A_27783132	NC_021164.1	Ca_Kabuli_Chr05	27783132	AA	GG	GG	INTERGENIC		
SNP_36573_A_27800772	NC_021164.1	Ca_Kabuli_Chr05	27800772	TT	CC	CC	URR	101496771	chloroplastic group IIA intron splicing facilitator CRS1, chloroplastic-like
SNP_36574_A_27811474	NC_021164.1	Ca_Kabuli_Chr05	27811474	CC	GG	GG	INTERGENIC		
SNP_36575_A_27811625	NC_021164.1	Ca_Kabuli_Chr05	27811625	CC	TT	TT	INTERGENIC		
SNP_36576_A_27812035	NC_021164.1	Ca_Kabuli_Chr05	27812035	GG	AA	AA	INTERGENIC		
SNP_36577_A_27813905	NC_021164.1	Ca_Kabuli_Chr05	27813905	GG	AA	AA	INTERGENIC		
SNP_36578_A_27814278	NC_021164.1	Ca_Kabuli_Chr05	27814278	CC	TT	TT	INTERGENIC		
SNP_36579_A_27835228	NC_021164.1	Ca_Kabuli_Chr05	27835228	AA	GG	GG	URR	101493322	deoxyuridine 5'-triphosphate nucleotidohydrolase-like
SNP_36580_A_27835250	NC_021164.1	Ca_Kabuli_Chr05	27835250	CC	AA	AA	URR	101493322	deoxyuridine 5'-triphosphate nucleotidohydrolase-like
SNP_36581_A_27835545	NC_021164.1	Ca_Kabuli_Chr05	27835545	CC	TT	TT	URR	101493322	deoxyuridine 5'-triphosphate nucleotidohydrolase-like
SNP_36582_A_27835663	NC_021164.1	Ca_Kabuli_Chr05	27835663	TT	CC	CC	URR	101493322	deoxyuridine 5'-triphosphate nucleotidohydrolase-like
SNP_36583_A_27835701	NC_021164.1	Ca_Kabuli_Chr05	27835701	CC	TT	TT	URR	101493322	deoxyuridine 5'-triphosphate nucleotidohydrolase-like
SNP_36585_A_27883626	NC_021164.1	Ca_Kabuli_Chr05	27883626	GG	AA	AA	DRR	101495134	beta-catenin-like protein 1
SNP_36586_A_27923211	NC_021164.1	Ca_Kabuli_Chr05	27923211	AA	GG	GG	URR	101495791	nuclear pore complex protein NUP88
SNP_36587_A_27925621	NC_021164.1	Ca_Kabuli_Chr05	27925621	GG	AA	AA	DRR	101496112	uncharacterized LOC101496112
SNP_36589_A_27945137	NC_021164.1	Ca_Kabuli_Chr05	27945137	AA	TT	TT	INTRON	101496972	probable amino acid permease 7
SNP_36590_A_27950052	NC_021164.1	Ca_Kabuli_Chr05	27950052	AA	TT	TT	INTRON	101496972	probable amino acid permease 7
SNP_36591_A_27953475	NC_021164.1	Ca_Kabuli_Chr05	27953475	GG	CC	CC	INTRON	101496972	probable amino acid permease 7
SNP_36592_A_27953505	NC_021164.1	Ca_Kabuli_Chr05	27953505	CC	GG	GG	INTRON	101496972	probable amino acid permease 7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36593_A_27953650	NC_021164.1	Ca_Kabuli_Chr05	27953650	TT	CC	CC	INTRON	101496972	probable amino acid permease 7
SNP_36594_A_27953654	NC_021164.1	Ca_Kabuli_Chr05	27953654	AA	GG	GG	INTRON	101496972	probable amino acid permease 7
SNP_36595_A_27954333	NC_021164.1	Ca_Kabuli_Chr05	27954333	GG	CC	CC	INTRON	101496972	probable amino acid permease 7
SNP_36596_A_27954369	NC_021164.1	Ca_Kabuli_Chr05	27954369	AA	TT	TT	INTRON	101496972	probable amino acid permease 7
SNP_36597_A_27954692	NC_021164.1	Ca_Kabuli_Chr05	27954692	GG	AA	AA	INTRON	101496972	probable amino acid permease 7
SNP_36598_A_27954712	NC_021164.1	Ca_Kabuli_Chr05	27954712	GG	AA	AA	INTRON	101496972	probable amino acid permease 7
SNP_36599_A_27954714	NC_021164.1	Ca_Kabuli_Chr05	27954714	AA	TT	TT	INTRON	101496972	probable amino acid permease 7
SNP_36600_A_27954722	NC_021164.1	Ca_Kabuli_Chr05	27954722	TT	AA	AA	INTRON	101496972	probable amino acid permease 7
SNP_36601_A_27954723	NC_021164.1	Ca_Kabuli_Chr05	27954723	TT	AA	AA	INTRON	101496972	probable amino acid permease 7
SNP_36602_A_27954801	NC_021164.1	Ca_Kabuli_Chr05	27954801	AA	GG	GG	INTRON	101496972	probable amino acid permease 7
SNP_36603_A_27954850	NC_021164.1	Ca_Kabuli_Chr05	27954850	TT	GG	GG	INTRON	101496972	probable amino acid permease 7
SNP_36604_A_28010050	NC_021164.1	Ca_Kabuli_Chr05	28010050	CC	GG	GG	INTERGENIC		
SNP_36606_A_28025975	NC_021164.1	Ca_Kabuli_Chr05	28025975	CC	TT	TT	DRR	101499385	phosphoinositide phospholipase C 2
SNP_36607_A_28056188	NC_021164.1	Ca_Kabuli_Chr05	28056188	GG	AA	AA	NON_SYNONYMOUS_CODING	101497951	Unknown function
SNP_36608_A_28058213	NC_021164.1	Ca_Kabuli_Chr05	28058213	TT	CC	AA	URR	101497951	Unknown function
SNP_36610_A_28088515	NC_021164.1	Ca_Kabuli_Chr05	28088515	CC	TT	TT	INTERGENIC		
SNP_36611_A_28106519	NC_021164.1	Ca_Kabuli_Chr05	28106519	CC	TT	TT	INTERGENIC		
SNP_36615_A_28251301	NC_021164.1	Ca_Kabuli_Chr05	28251301	CC	TT	TT	INTERGENIC		
SNP_36616_A_28341927	NC_021164.1	Ca_Kabuli_Chr05	28341927	TT	AA	AA	URR	101507608	multiple inositol polyphosphate phosphatase 1
SNP_36618_A_28391729	NC_021164.1	Ca_Kabuli_Chr05	28391729	CC	TT	TT	INTERGENIC		
SNP_36619_A_28391780	NC_021164.1	Ca_Kabuli_Chr05	28391780	TT	CC	CC	INTERGENIC		
SNP_36620_A_28392189	NC_021164.1	Ca_Kabuli_Chr05	28392189	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36621_A_28409782	NC_021164.1	Ca_Kabuli_Chr05	28409782	TT	CC	CC	URR	101499592	serine/threonine-protein phosphatase 7 long form homolog
SNP_36623_A_28413409	NC_021164.1	Ca_Kabuli_Chr05	28413409	CC	AA	AA	INTERGENIC		
SNP_36624_A_28435124	NC_021164.1	Ca_Kabuli_Chr05	28435124	TT	AA	AA	INTERGENIC		
SNP_36625_A_28466907	NC_021164.1	Ca_Kabuli_Chr05	28466907	TT	CC	CC	INTERGENIC		
SNP_36626_A_28466923	NC_021164.1	Ca_Kabuli_Chr05	28466923	CC	TT	TT	INTERGENIC		
SNP_36627_A_28466940	NC_021164.1	Ca_Kabuli_Chr05	28466940	GG	AA	AA	INTERGENIC		
SNP_36628_A_28480505	NC_021164.1	Ca_Kabuli_Chr05	28480505	TT	CC	CC	NON_SYNONYMOUS_CODING	101500861	uncharacterized LOC101500861
SNP_36629_A_28480511	NC_021164.1	Ca_Kabuli_Chr05	28480511	TT	GG	GG	NON_SYNONYMOUS_CODING	101500861	uncharacterized LOC101500861
SNP_36630_A_28480574	NC_021164.1	Ca_Kabuli_Chr05	28480574	TT	CC	CC	NON_SYNONYMOUS_CODING	101500861	uncharacterized LOC101500861
SNP_36631_A_28502705	NC_021164.1	Ca_Kabuli_Chr05	28502705	AA	CC	CC	INTERGENIC		
SNP_36632_A_28515721	NC_021164.1	Ca_Kabuli_Chr05	28515721	AA	TT	TT	INTERGENIC		
SNP_36633_A_28515723	NC_021164.1	Ca_Kabuli_Chr05	28515723	TT	AA	AA	INTERGENIC		
SNP_36634_A_28520791	NC_021164.1	Ca_Kabuli_Chr05	28520791	AA	GG	GG	INTERGENIC		
SNP_36635_A_28525088	NC_021164.1	Ca_Kabuli_Chr05	28525088	TT	CC	CC	INTERGENIC		
SNP_36636_A_28525162	NC_021164.1	Ca_Kabuli_Chr05	28525162	AA	GG	GG	INTERGENIC		
SNP_36637_A_28525200	NC_021164.1	Ca_Kabuli_Chr05	28525200	AA	GG	GG	INTERGENIC		
SNP_36638_A_28525309	NC_021164.1	Ca_Kabuli_Chr05	28525309	GG	AA	AA	INTERGENIC		
SNP_36639_A_28525383	NC_021164.1	Ca_Kabuli_Chr05	28525383	AA	GG	GG	INTERGENIC		
SNP_36640_A_28525415	NC_021164.1	Ca_Kabuli_Chr05	28525415	GG	AA	AA	INTERGENIC		
SNP_36641_A_28525437	NC_021164.1	Ca_Kabuli_Chr05	28525437	TT	CC	CC	INTERGENIC		
SNP_36642_A_28525444	NC_021164.1	Ca_Kabuli_Chr05	28525444	AA	GG	GG	INTERGENIC		
SNP_36643_A_28525478	NC_021164.1	Ca_Kabuli_Chr05	28525478	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_36644_A_28525514	NC_021164.1	Ca_Kabuli_Chr05	28525514	GG	CC	CC	INTERGENIC			
SNP_36645_A_28525547	NC_021164.1	Ca_Kabuli_Chr05	28525547	AA	TT	TT	INTERGENIC			
SNP_36646_A_28525586	NC_021164.1	Ca_Kabuli_Chr05	28525586	CC	TT	TT	INTERGENIC			
SNP_36647_A_28525622	NC_021164.1	Ca_Kabuli_Chr05	28525622	TT	CC	CC	INTERGENIC			
SNP_36648_A_28525630	NC_021164.1	Ca_Kabuli_Chr05	28525630	AA	TT	TT	INTERGENIC			
SNP_36649_A_28525635	NC_021164.1	Ca_Kabuli_Chr05	28525635	AA	GG	GG	INTERGENIC			
SNP_36650_A_28525662	NC_021164.1	Ca_Kabuli_Chr05	28525662	TT	CC	CC	INTERGENIC			
SNP_36651_A_28525687	NC_021164.1	Ca_Kabuli_Chr05	28525687	TT	CC	CC	INTERGENIC			
SNP_36652_A_28569583	NC_021164.1	Ca_Kabuli_Chr05	28569583	GG	CC	CC	INTERGENIC			
SNP_36653_A_28569873	NC_021164.1	Ca_Kabuli_Chr05	28569873	TT	CC	CC	INTERGENIC			
SNP_36654_A_28569962	NC_021164.1	Ca_Kabuli_Chr05	28569962	AA	CC	CC	INTERGENIC			
SNP_36656_A_28616955	NC_021164.1	Ca_Kabuli_Chr05	28616955	CC	TT	TT	INTERGENIC			
SNP_36657_A_28651625	NC_021164.1	Ca_Kabuli_Chr05	28651625	CC	GG	GG	INTERGENIC			
SNP_36658_A_28651771	NC_021164.1	Ca_Kabuli_Chr05	28651771	AA	GG	GG	INTERGENIC			
SNP_36659_A_28651907	NC_021164.1	Ca_Kabuli_Chr05	28651907	GG	TT	TT	INTERGENIC			
SNP_36660_A_28689697	NC_021164.1	Ca_Kabuli_Chr05	28689697	AA	GG	GG	INTERGENIC			
SNP_36661_A_28750365	NC_021164.1	Ca_Kabuli_Chr05	28750365	TT	AA	AA	URR	101490400	uncharacterized LOC101490400	
SNP_36662_A_28750614	NC_021164.1	Ca_Kabuli_Chr05	28750614	CC	AA	AA	URR	101490400	uncharacterized LOC101490400	
SNP_36663_A_28766391	NC_021164.1	Ca_Kabuli_Chr05	28766391	GG	AA	AA	INTERGENIC			
SNP_36664_A_28767700	NC_021164.1	Ca_Kabuli_Chr05	28767700	TT	GG	GG	INTERGENIC			
SNP_36665_A_28800271	NC_021164.1	Ca_Kabuli_Chr05	28800271	CC	TT	TT	INTERGENIC			
SNP_36666_A_28809387	NC_021164.1	Ca_Kabuli_Chr05	28809387	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36667_A_28842159	NC_021164.1	Ca_Kabuli_Chr05	28842159	AA	TT	TT	NON_SYNONYMOUS_CODING	101492990	lysM domain-containing GPI-anchored protein 1-like
SNP_36669_A_28864402	NC_021164.1	Ca_Kabuli_Chr05	28864402	CC	AA	AA	URR	101494073	DNA ligase 1
SNP_36671_A_28895474	NC_021164.1	Ca_Kabuli_Chr05	28895474	AA	GG	GG	INTERGENIC		
SNP_36673_A_28978002	NC_021164.1	Ca_Kabuli_Chr05	28978002	AA	GG	GG	URR	101503405	activating signal cointegrator 1 complex subunit 2 homolog
SNP_36674_A_28999129	NC_021164.1	Ca_Kabuli_Chr05	28999129	GG	TT	TT	URR	101504271	G-type lectin S-receptor-like serine/threonine-protein kinase At5g35370
SNP_36675_A_29046172	NC_021164.1	Ca_Kabuli_Chr05	29046172	CC	TT	TT	URR	101505554	auxin transporter-like protein 3
SNP_36677_A_29298206	NC_021164.1	Ca_Kabuli_Chr05	29298206	TT	GG	GG	INTERGENIC		
SNP_36679_A_29504537	NC_021164.1	Ca_Kabuli_Chr05	29504537	AA	TT	TT	INTERGENIC		
SNP_36680_A_29536303	NC_021164.1	Ca_Kabuli_Chr05	29536303	TT	CC	CC	DRR	101503631	Unknown function
SNP_36683_A_29670495	NC_021164.1	Ca_Kabuli_Chr05	29670495	CC	TT	TT	INTERGENIC		
SNP_36684_A_29706447	NC_021164.1	Ca_Kabuli_Chr05	29706447	TT	CC	CC	INTERGENIC		
SNP_36685_A_29739368	NC_021164.1	Ca_Kabuli_Chr05	29739368	TT	CC	CC	INTERGENIC		
SNP_36686_A_29759720	NC_021164.1	Ca_Kabuli_Chr05	29759720	TT	AA	AA	URR	101505555	nucleotide pyrophosphatase/phosphodiesterase
SNP_36687_A_29759752	NC_021164.1	Ca_Kabuli_Chr05	29759752	AA	GG	GG	URR	101505555	nucleotide pyrophosphatase/phosphodiesterase
SNP_36691_A_29902979	NC_021164.1	Ca_Kabuli_Chr05	29902979	GG	AA	AA	INTERGENIC		
SNP_36692_A_29904792	NC_021164.1	Ca_Kabuli_Chr05	29904792	CC	TT	TT	INTERGENIC		
SNP_36693_A_29917613	NC_021164.1	Ca_Kabuli_Chr05	29917613	CC	TT	TT	DRR	101506201	uncharacterized LOC101506201
SNP_36694_A_29917651	NC_021164.1	Ca_Kabuli_Chr05	29917651	TT	GG	GG	DRR	101506201	uncharacterized LOC101506201
SNP_36695_A_29917680	NC_021164.1	Ca_Kabuli_Chr05	29917680	TT	AA	AA	DRR	101506201	uncharacterized LOC101506201
SNP_36696_A_29920999	NC_021164.1	Ca_Kabuli_Chr05	29920999	AA	CC	CC	INTRON	101506201	uncharacterized LOC101506201
SNP_36697_A_29921043	NC_021164.1	Ca_Kabuli_Chr05	29921043	CC	TT	TT	INTRON	101506201	uncharacterized LOC101506201
SNP_36698_A_29921081	NC_021164.1	Ca_Kabuli_Chr05	29921081	AA	TT	TT	INTRON	101506201	uncharacterized LOC101506201

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36699_A_29921082	NC_021164.1	Ca_Kabuli_Chr05	29921082	AA	GG	GG	INTRON	101506201	uncharacterized LOC101506201
SNP_36700_A_29921320	NC_021164.1	Ca_Kabuli_Chr05	29921320	TT	CC	CC	INTRON	101506201	uncharacterized LOC101506201
SNP_36701_A_29921326	NC_021164.1	Ca_Kabuli_Chr05	29921326	CC	TT	TT	INTRON	101506201	uncharacterized LOC101506201
SNP_36702_A_29929369	NC_021164.1	Ca_Kabuli_Chr05	29929369	AA	TT	TT	INTRON	101506530	uncharacterized LOC101506530
SNP_36703_A_29929408	NC_021164.1	Ca_Kabuli_Chr05	29929408	CC	TT	TT	NON_SYNONYMOUS_CODING	101506530	uncharacterized LOC101506530
SNP_36704_A_29932064	NC_021164.1	Ca_Kabuli_Chr05	29932064	TT	CC	CC	URR	101506530	uncharacterized LOC101506530
SNP_36705_A_29932135	NC_021164.1	Ca_Kabuli_Chr05	29932135	GG	TT	TT	URR	101506530	uncharacterized LOC101506530
SNP_36706_A_29932159	NC_021164.1	Ca_Kabuli_Chr05	29932159	CC	TT	TT	URR	101506530	uncharacterized LOC101506530
SNP_36707_A_29932160	NC_021164.1	Ca_Kabuli_Chr05	29932160	CC	GG	GG	URR	101506530	uncharacterized LOC101506530
SNP_36708_A_29932161	NC_021164.1	Ca_Kabuli_Chr05	29932161	TT	AA	AA	URR	101506530	uncharacterized LOC101506530
SNP_36709_A_29932355	NC_021164.1	Ca_Kabuli_Chr05	29932355	GG	AA	AA	INTERGENIC		
SNP_36710_A_29932374	NC_021164.1	Ca_Kabuli_Chr05	29932374	GG	AA	AA	INTERGENIC		
SNP_36711_A_29933084	NC_021164.1	Ca_Kabuli_Chr05	29933084	CC	GG	GG	INTERGENIC		
SNP_36715_A_29934615	NC_021164.1	Ca_Kabuli_Chr05	29934615	CC	TT	TT	INTERGENIC		
SNP_36716_A_29938136	NC_021164.1	Ca_Kabuli_Chr05	29938136	GG	AA	AA	DRR	101502463	Unknown function
SNP_36718_A_29938497	NC_021164.1	Ca_Kabuli_Chr05	29938497	TT	GG	GG	URR	101506863	uncharacterized LOC101506863
SNP_36720_A_29999476	NC_021164.1	Ca_Kabuli_Chr05	29999476	AA	GG	GG	INTERGENIC		
SNP_36721_A_30028536	NC_021164.1	Ca_Kabuli_Chr05	30028536	CC	TT	TT	INTERGENIC		
SNP_36722_A_30040605	NC_021164.1	Ca_Kabuli_Chr05	30040605	TT	AA	AA	INTERGENIC		
SNP_36724_A_30106187	NC_021164.1	Ca_Kabuli_Chr05	30106187	AA	GG	GG	INTERGENIC		
SNP_36725_A_30107037	NC_021164.1	Ca_Kabuli_Chr05	30107037	GG	AA	AA	DRR	101513800	uncharacterized LOC101513800
SNP_36726_A_30107041	NC_021164.1	Ca_Kabuli_Chr05	30107041	CC	TT	TT	DRR	101513800	uncharacterized LOC101513800

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36727_A_30107049	NC_021164.1	Ca_Kabuli_Chr05	30107049	TT	CC	CC	DRR	101513800	uncharacterized LOC101513800
SNP_36728_A_30107279	NC_021164.1	Ca_Kabuli_Chr05	30107279	AA	GG	GG	DRR	101513800	uncharacterized LOC101513800
SNP_36729_A_30107307	NC_021164.1	Ca_Kabuli_Chr05	30107307	TT	AA	AA	DRR	101513800	uncharacterized LOC101513800
SNP_36730_A_30107315	NC_021164.1	Ca_Kabuli_Chr05	30107315	CC	TT	TT	DRR	101513800	uncharacterized LOC101513800
SNP_36732_A_30107448	NC_021164.1	Ca_Kabuli_Chr05	30107448	AA	GG	GG	DRR	101513800	uncharacterized LOC101513800
SNP_36733_A_30107550	NC_021164.1	Ca_Kabuli_Chr05	30107550	TT	CC	CC	DRR	101513800	uncharacterized LOC101513800
SNP_36734_A_30107576	NC_021164.1	Ca_Kabuli_Chr05	30107576	AA	CC	CC	DRR	101513800	uncharacterized LOC101513800
SNP_36735_A_30107661	NC_021164.1	Ca_Kabuli_Chr05	30107661	AA	GG	GG	DRR	101513800	uncharacterized LOC101513800
SNP_36736_A_30108652	NC_021164.1	Ca_Kabuli_Chr05	30108652	TT	GG	GG	NON_SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36737_A_30108824	NC_021164.1	Ca_Kabuli_Chr05	30108824	CC	GG	GG	NON_SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36738_A_30108829	NC_021164.1	Ca_Kabuli_Chr05	30108829	CC	TT	TT	NON_SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36739_A_30109040	NC_021164.1	Ca_Kabuli_Chr05	30109040	TT	CC	CC	NON_SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36740_A_30109116	NC_021164.1	Ca_Kabuli_Chr05	30109116	TT	AA	AA	SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36741_A_30109197	NC_021164.1	Ca_Kabuli_Chr05	30109197	GG	AA	AA	SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36742_A_30109266	NC_021164.1	Ca_Kabuli_Chr05	30109266	AA	GG	GG	SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36743_A_30109382	NC_021164.1	Ca_Kabuli_Chr05	30109382	TT	CC	CC	NON_SYNONYMOUS_CODING	101513800	uncharacterized LOC101513800
SNP_36744_A_30111927	NC_021164.1	Ca_Kabuli_Chr05	30111927	CC	GG	GG	INTRON	101513800	uncharacterized LOC101513800
SNP_36745_A_30111943	NC_021164.1	Ca_Kabuli_Chr05	30111943	AA	TT	TT	INTRON	101513800	uncharacterized LOC101513800
SNP_36746_A_30112051	NC_021164.1	Ca_Kabuli_Chr05	30112051	CC	GG	GG	INTRON	101513800	uncharacterized LOC101513800
SNP_36747_A_30112210	NC_021164.1	Ca_Kabuli_Chr05	30112210	TT	CC	CC	INTRON	101513800	uncharacterized LOC101513800
SNP_36748_A_30112270	NC_021164.1	Ca_Kabuli_Chr05	30112270	CC	TT	TT	INTRON	101513800	uncharacterized LOC101513800
SNP_36750_A_30119135	NC_021164.1	Ca_Kabuli_Chr05	30119135	CC	TT	TT	URR	101513497	endochitinase A2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36751_A_30119743	NC_021164.1	Ca_Kabuli_Chr05	30119743	TT	GG	GG	URR	101513497	endochitinase A2-like
SNP_36752_A_30119775	NC_021164.1	Ca_Kabuli_Chr05	30119775	TT	CC	CC	URR	101513497	endochitinase A2-like
SNP_36753_A_30120257	NC_021164.1	Ca_Kabuli_Chr05	30120257	AA	GG	GG	INTERGENIC		
SNP_36754_A_30120264	NC_021164.1	Ca_Kabuli_Chr05	30120264	GG	AA	AA	INTERGENIC		
SNP_36755_A_30123327	NC_021164.1	Ca_Kabuli_Chr05	30123327	CC	TT	TT	NON_SYNONYMOUS_CODING	101512317	uncharacterized LOC101512317
SNP_36756_A_30123407	NC_021164.1	Ca_Kabuli_Chr05	30123407	GG	CC	CC	NON_SYNONYMOUS_CODING	101512317	uncharacterized LOC101512317
SNP_36757_A_30123675	NC_021164.1	Ca_Kabuli_Chr05	30123675	GG	CC	CC	NON_SYNONYMOUS_CODING	101512317	uncharacterized LOC101512317
SNP_36758_A_30123687	NC_021164.1	Ca_Kabuli_Chr05	30123687	CC	AA	AA	NON_SYNONYMOUS_CODING	101512317	uncharacterized LOC101512317
SNP_36759_A_30125552	NC_021164.1	Ca_Kabuli_Chr05	30125552	AA	TT	TT	INTRON	101512317	uncharacterized LOC101512317
SNP_36761_A_30127094	NC_021164.1	Ca_Kabuli_Chr05	30127094	TT	AA	AA	URR	101512317	uncharacterized LOC101512317
SNP_36762_A_30127852	NC_021164.1	Ca_Kabuli_Chr05	30127852	CC	TT	TT	URR	101512317	uncharacterized LOC101512317
SNP_36763_A_30128630	NC_021164.1	Ca_Kabuli_Chr05	30128630	GG	TT	TT	URR	101512317	uncharacterized LOC101512317
SNP_36764_A_30128762	NC_021164.1	Ca_Kabuli_Chr05	30128762	CC	TT	TT	URR	101512317	uncharacterized LOC101512317
SNP_36766_A_30129022	NC_021164.1	Ca_Kabuli_Chr05	30129022	AA	TT	TT	INTERGENIC		
SNP_36767_A_30129094	NC_021164.1	Ca_Kabuli_Chr05	30129094	CC	TT	TT	INTERGENIC		
SNP_36769_A_30131107	NC_021164.1	Ca_Kabuli_Chr05	30131107	TT	GG	GG	INTERGENIC		
SNP_36770_A_30132470	NC_021164.1	Ca_Kabuli_Chr05	30132470	TT	CC	CC	INTERGENIC		
SNP_36772_A_30240429	NC_021164.1	Ca_Kabuli_Chr05	30240429	CC	TT	TT	DRR	101492097	DEAD-box ATP-dependent RNA helicase 50
SNP_36774_A_30381419	NC_021164.1	Ca_Kabuli_Chr05	30381419	CC	TT	TT	URR	101496442	E3 ubiquitin-protein ligase UPL3
SNP_36776_A_30396428	NC_021164.1	Ca_Kabuli_Chr05	30396428	CC	GG	GG	INTERGENIC		
SNP_36777_A_30396495	NC_021164.1	Ca_Kabuli_Chr05	30396495	AA	GG	GG	INTERGENIC		
SNP_36778_A_30396786	NC_021164.1	Ca_Kabuli_Chr05	30396786	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36779_A_30396821	NC_021164.1	Ca_Kabuli_Chr05	30396821	AA	TT	TT	INTERGENIC		
SNP_36780_A_30397101	NC_021164.1	Ca_Kabuli_Chr05	30397101	GG	TT	TT	INTERGENIC		
SNP_36781_A_30398522	NC_021164.1	Ca_Kabuli_Chr05	30398522	AA	TT	TT	INTERGENIC		
SNP_36782_A_30547556	NC_021164.1	Ca_Kabuli_Chr05	30547556	AA	TT	TT	DRR	101506864	tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like
SNP_36783_A_30547557	NC_021164.1	Ca_Kabuli_Chr05	30547557	CC	TT	TT	DRR	101506864	tRNA-dihydrouridine(47) synthase [NAD(P)(+)]-like
SNP_36784_A_30614560	NC_021164.1	Ca_Kabuli_Chr05	30614560	TT	CC	CC	DRR	101509846	GATA transcription factor 7
SNP_36785_A_30621409	NC_021164.1	Ca_Kabuli_Chr05	30621409	CC	TT	TT	INTERGENIC		
SNP_36786_A_30644437	NC_021164.1	Ca_Kabuli_Chr05	30644437	AA	TT	TT	INTERGENIC		
SNP_36787_A_30670011	NC_021164.1	Ca_Kabuli_Chr05	30670011	CC	TT	TT	INTERGENIC		
SNP_36788_A_30672490	NC_021164.1	Ca_Kabuli_Chr05	30672490	TT	AA	AA	INTERGENIC		
SNP_36789_A_30703102	NC_021164.1	Ca_Kabuli_Chr05	30703102	TT	AA	AA	INTERGENIC		
SNP_36790_A_30710575	NC_021164.1	Ca_Kabuli_Chr05	30710575	GG	AA	AA	INTERGENIC		
SNP_36792_A_30737668	NC_021164.1	Ca_Kabuli_Chr05	30737668	GG	TT	TT	INTERGENIC		
SNP_36793_A_30764928	NC_021164.1	Ca_Kabuli_Chr05	30764928	TT	AA	AA	URR	101490611	theobromine synthase 2-like
SNP_36794_A_30767299	NC_021164.1	Ca_Kabuli_Chr05	30767299	TT	AA	AA	INTERGENIC		
SNP_36795_A_30777712	NC_021164.1	Ca_Kabuli_Chr05	30777712	GG	AA	AA	DRR	101491250	uncharacterized LOC101491250
SNP_36796_A_30777735	NC_021164.1	Ca_Kabuli_Chr05	30777735	GG	AA	AA	DRR	101491250	uncharacterized LOC101491250
SNP_36797_A_30818525	NC_021164.1	Ca_Kabuli_Chr05	30818525	AA	CC	CC	URR	101493214	transcription factor bHLH63-like
SNP_36798_A_30828276	NC_021164.1	Ca_Kabuli_Chr05	30828276	AA	GG	GG	DRR	101493531	protein RADIALIS-like 6
SNP_36799_A_30828536	NC_021164.1	Ca_Kabuli_Chr05	30828536	GG	AA	AA	DRR	101493531	protein RADIALIS-like 6
SNP_36800_A_30829996	NC_021164.1	Ca_Kabuli_Chr05	30829996	GG	CC	CC	URR	101493531	protein RADIALIS-like 6
SNP_36801_A_30830020	NC_021164.1	Ca_Kabuli_Chr05	30830020	GG	AA	AA	URR	101493531	protein RADIALIS-like 6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36802_A_30830084	NC_021164.1	Ca_Kabuli_Chr05	30830084	AA	TT	TT	URR	101493531	protein RADIALIS-like 6
SNP_36803_A_30830483	NC_021164.1	Ca_Kabuli_Chr05	30830483	TT	GG	GG	URR	101493531	protein RADIALIS-like 6
SNP_36804_A_30830895	NC_021164.1	Ca_Kabuli_Chr05	30830895	CC	TT	TT	URR	101493531	protein RADIALIS-like 6
SNP_36805_A_30835037	NC_021164.1	Ca_Kabuli_Chr05	30835037	CC	TT	TT	URR	101493850	glycine-rich RNA-binding protein-like
SNP_36807_A_30836003	NC_021164.1	Ca_Kabuli_Chr05	30836003	CC	AA	AA	URR	101493850	glycine-rich RNA-binding protein-like
SNP_36808_A_30836757	NC_021164.1	Ca_Kabuli_Chr05	30836757	AA	GG	GG	INTERGENIC		
SNP_36809_A_30838205	NC_021164.1	Ca_Kabuli_Chr05	30838205	GG	AA	AA	INTERGENIC		
SNP_36810_A_30838564	NC_021164.1	Ca_Kabuli_Chr05	30838564	TT	AA	AA	INTERGENIC		
SNP_36811_A_30840962	NC_021164.1	Ca_Kabuli_Chr05	30840962	AA	GG	GG	INTERGENIC		
SNP_36812_A_30840963	NC_021164.1	Ca_Kabuli_Chr05	30840963	CC	AA	AA	INTERGENIC		
SNP_36813_A_30840967	NC_021164.1	Ca_Kabuli_Chr05	30840967	CC	TT	TT	INTERGENIC		
SNP_36814_A_30840996	NC_021164.1	Ca_Kabuli_Chr05	30840996	CC	TT	TT	INTERGENIC		
SNP_36815_A_30841174	NC_021164.1	Ca_Kabuli_Chr05	30841174	TT	CC	CC	INTERGENIC		
SNP_36816_A_30841184	NC_021164.1	Ca_Kabuli_Chr05	30841184	TT	AA	AA	INTERGENIC		
SNP_36817_A_30844742	NC_021164.1	Ca_Kabuli_Chr05	30844742	GG	TT	TT	INTERGENIC		
SNP_36818_A_30844924	NC_021164.1	Ca_Kabuli_Chr05	30844924	TT	CC	CC	INTERGENIC		
SNP_36819_A_30845161	NC_021164.1	Ca_Kabuli_Chr05	30845161	TT	CC	CC	INTERGENIC		
SNP_36820_A_30846382	NC_021164.1	Ca_Kabuli_Chr05	30846382	AA	TT	TT	INTERGENIC		
SNP_36821_A_30847690	NC_021164.1	Ca_Kabuli_Chr05	30847690	TT	CC	CC	INTERGENIC		
SNP_36822_A_30849509	NC_021164.1	Ca_Kabuli_Chr05	30849509	AA	TT	TT	INTERGENIC		
SNP_36823_A_30849575	NC_021164.1	Ca_Kabuli_Chr05	30849575	CC	AA	AA	INTERGENIC		
SNP_36824_A_30851075	NC_021164.1	Ca_Kabuli_Chr05	30851075	GG	AA	AA	DRR	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36825_A_30851076	NC_021164.1	Ca_Kabuli_Chr05	30851076	TT	CC	CC	DRR	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250
SNP_36826_A_30851087	NC_021164.1	Ca_Kabuli_Chr05	30851087	TT	CC	CC	DRR	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250
SNP_36827_A_30853152	NC_021164.1	Ca_Kabuli_Chr05	30853152	TT	CC	CC	NON_SYNONYMOUS_CODING	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250
SNP_36828_A_30858980	NC_021164.1	Ca_Kabuli_Chr05	30858980	TT	CC	CC	URR	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250
SNP_36830_A_30859189	NC_021164.1	Ca_Kabuli_Chr05	30859189	TT	CC	CC	URR	101494178	probable LRR receptor-like serine/threonine-protein kinase At2g16250
SNP_36831_A_30860154	NC_021164.1	Ca_Kabuli_Chr05	30860154	TT	CC	CC	URR	101410584	transfer RNA glutamine (anticodon CUG)
SNP_36832_A_30860486	NC_021164.1	Ca_Kabuli_Chr05	30860486	GG	AA	AA	INTERGENIC		
SNP_36834_A_30860804	NC_021164.1	Ca_Kabuli_Chr05	30860804	CC	TT	TT	INTERGENIC		
SNP_36836_A_30864200	NC_021164.1	Ca_Kabuli_Chr05	30864200	AA	TT	TT	NON_SYNONYMOUS_CODING	101494487	probable receptor-like serine/threonine-protein kinase At4g34500
SNP_36838_A_30866323	NC_021164.1	Ca_Kabuli_Chr05	30866323	AA	GG	GG	INTRON	101494487	probable receptor-like serine/threonine-protein kinase At4g34500
SNP_36840_A_30872890	NC_021164.1	Ca_Kabuli_Chr05	30872890	GG	CC	CC	INTRON	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36841_A_30872898	NC_021164.1	Ca_Kabuli_Chr05	30872898	CC	AA	AA	INTRON	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36842_A_30873165	NC_021164.1	Ca_Kabuli_Chr05	30873165	GG	TT	TT	INTRON	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36843_A_30873377	NC_021164.1	Ca_Kabuli_Chr05	30873377	AA	TT	TT	INTRON	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36844_A_30874279	NC_021164.1	Ca_Kabuli_Chr05	30874279	AA	TT	TT	INTRON	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36845_A_30874608	NC_021164.1	Ca_Kabuli_Chr05	30874608	GG	AA	AA	UPSTREAM	Gene_ma16320	Unknown function
SNP_36847_A_30875927	NC_021164.1	Ca_Kabuli_Chr05	30875927	AA	TT	TT	URR	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36848_A_30876254	NC_021164.1	Ca_Kabuli_Chr05	30876254	GG	TT	TT	URR	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36849_A_30876277	NC_021164.1	Ca_Kabuli_Chr05	30876277	CC	AA	AA	URR	101494808	glucan endo-1,3-beta-D-glucosidase-like
SNP_36850_A_30876596	NC_021164.1	Ca_Kabuli_Chr05	30876596	CC	TT	TT	DRR	101495136	guanine nucleotide-binding protein subunit beta-2
SNP_36851_A_30876599	NC_021164.1	Ca_Kabuli_Chr05	30876599	GG	AA	AA	DRR	101495136	guanine nucleotide-binding protein subunit beta-2
SNP_36852_A_30876882	NC_021164.1	Ca_Kabuli_Chr05	30876882	TT	AA	AA	DRR	101495136	guanine nucleotide-binding protein subunit beta-2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36853_A_30885546	NC_021164.1	Ca_Kabuli_Chr05	30885546	TT	CC	CC	INTERGENIC		
SNP_36854_A_30886160	NC_021164.1	Ca_Kabuli_Chr05	30886160	GG	CC	CC	INTERGENIC		
SNP_36856_A_30888794	NC_021164.1	Ca_Kabuli_Chr05	30888794	TT	GG	GG	DRR	101495461	coatomer subunit gamma-like
SNP_36857_A_30889089	NC_021164.1	Ca_Kabuli_Chr05	30889089	AA	TT	TT	DRR	101495461	coatomer subunit gamma-like
SNP_36858_A_30890285	NC_021164.1	Ca_Kabuli_Chr05	30890285	CC	AA	AA	INTERGENIC		
SNP_36859_A_30892589	NC_021164.1	Ca_Kabuli_Chr05	30892589	GG	CC	CC	INTRON	101495461	coatomer subunit gamma-like
SNP_36860_A_30896693	NC_021164.1	Ca_Kabuli_Chr05	30896693	AA	CC	CC	INTERGENIC		
SNP_36861_A_30896801	NC_021164.1	Ca_Kabuli_Chr05	30896801	CC	TT	TT	INTERGENIC		
SNP_36862_A_30897982	NC_021164.1	Ca_Kabuli_Chr05	30897982	CC	AA	AA	URR	101495461	coatomer subunit gamma-like
SNP_36863_A_30899468	NC_021164.1	Ca_Kabuli_Chr05	30899468	TT	AA	AA	INTERGENIC		
SNP_36865_A_30900965	NC_021164.1	Ca_Kabuli_Chr05	30900965	GG	CC	CC	DRR	101505888	putative proline-rich receptor-like protein kinase PERK6
SNP_36866_A_30907076	NC_021164.1	Ca_Kabuli_Chr05	30907076	GG	TT	TT	INTRON	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36867_A_30907129	NC_021164.1	Ca_Kabuli_Chr05	30907129	CC	TT	TT	INTRON	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36868_A_30907425	NC_021164.1	Ca_Kabuli_Chr05	30907425	AA	GG	GG	INTRON	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36869_A_30907963	NC_021164.1	Ca_Kabuli_Chr05	30907963	AA	GG	GG	URR	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36870_A_30909282	NC_021164.1	Ca_Kabuli_Chr05	30909282	CC	TT	TT	URR	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36871_A_30909284	NC_021164.1	Ca_Kabuli_Chr05	30909284	AA	GG	GG	URR	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36872_A_30909412	NC_021164.1	Ca_Kabuli_Chr05	30909412	TT	CC	CC	URR	101495793	MATH and LRR domain-containing protein PFE0570w
SNP_36873_A_30910476	NC_021164.1	Ca_Kabuli_Chr05	30910476	AA	GG	GG	INTERGENIC		
SNP_36874_A_30912231	NC_021164.1	Ca_Kabuli_Chr05	30912231	TT	AA	AA	INTERGENIC		
SNP_36875_A_30912259	NC_021164.1	Ca_Kabuli_Chr05	30912259	CC	TT	TT	INTERGENIC		
SNP_36876_A_30912263	NC_021164.1	Ca_Kabuli_Chr05	30912263	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36877_A_30924520	NC_021164.1	Ca_Kabuli_Chr05	30924520	CC	AA	AA	INTERGENIC		
SNP_36878_A_30925236	NC_021164.1	Ca_Kabuli_Chr05	30925236	CC	TT	TT	INTERGENIC		
SNP_36879_A_30925709	NC_021164.1	Ca_Kabuli_Chr05	30925709	TT	CC	CC	INTERGENIC		
SNP_36880_A_30925934	NC_021164.1	Ca_Kabuli_Chr05	30925934	CC	AA	AA	INTERGENIC		
SNP_36881_A_30925966	NC_021164.1	Ca_Kabuli_Chr05	30925966	CC	GG	GG	INTERGENIC		
SNP_36882_A_30933247	NC_021164.1	Ca_Kabuli_Chr05	30933247	GG	TT	TT	NON_SYNONYMOUS_CODING	101496874	dehydration-responsive protein RD22-like
SNP_36883_A_30933277	NC_021164.1	Ca_Kabuli_Chr05	30933277	CC	AA	AA	NON_SYNONYMOUS_CODING	101496874	dehydration-responsive protein RD22-like
SNP_36884_A_30935504	NC_021164.1	Ca_Kabuli_Chr05	30935504	AA	CC	CC	URR	101496874	dehydration-responsive protein RD22-like
SNP_36885_A_30939569	NC_021164.1	Ca_Kabuli_Chr05	30939569	GG	TT	TT	URR	101506202	BURP domain-containing protein 17-like
SNP_36886_A_30940316	NC_021164.1	Ca_Kabuli_Chr05	30940316	TT	CC	CC	URR	101497203	mediator of RNA polymerase II transcription subunit 32
SNP_36887_A_30940335	NC_021164.1	Ca_Kabuli_Chr05	30940335	AA	GG	GG	URR	101497203	mediator of RNA polymerase II transcription subunit 32
SNP_36888_A_30940340	NC_021164.1	Ca_Kabuli_Chr05	30940340	CC	TT	TT	URR	101497203	mediator of RNA polymerase II transcription subunit 32
SNP_36889_A_30941350	NC_021164.1	Ca_Kabuli_Chr05	30941350	CC	TT	TT	URR	101497203	mediator of RNA polymerase II transcription subunit 32
SNP_36890_A_30942053	NC_021164.1	Ca_Kabuli_Chr05	30942053	CC	TT	TT	INTERGENIC		
SNP_36891_A_30944055	NC_021164.1	Ca_Kabuli_Chr05	30944055	AA	CC	CC	NON_SYNONYMOUS_CODING	101506532	Unknown function
SNP_36892_A_30947140	NC_021164.1	Ca_Kabuli_Chr05	30947140	GG	CC	CC	INTRON	101506532	Unknown function
SNP_36893_A_30947408	NC_021164.1	Ca_Kabuli_Chr05	30947408	TT	AA	AA	INTRON	101506532	Unknown function
SNP_36895_A_30949006	NC_021164.1	Ca_Kabuli_Chr05	30949006	CC	AA	AA	INTRON	101506532	Unknown function
SNP_36896_A_30949060	NC_021164.1	Ca_Kabuli_Chr05	30949060	AA	GG	GG	INTRON	101506532	Unknown function
SNP_36898_A_30950281	NC_021164.1	Ca_Kabuli_Chr05	30950281	AA	TT	TT	INTRON	101506532	Unknown function
SNP_36899_A_30950291	NC_021164.1	Ca_Kabuli_Chr05	30950291	CC	AA	AA	INTRON	101506532	Unknown function
SNP_36900_A_30950551	NC_021164.1	Ca_Kabuli_Chr05	30950551	TT	AA	AA	INTRON	101506532	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36901_A_30953432	NC_021164.1	Ca_Kabuli_Chr05	30953432	CC	TT	TT	INTERGENIC		
SNP_36902_A_30953433	NC_021164.1	Ca_Kabuli_Chr05	30953433	TT	AA	AA	INTERGENIC		
SNP_36903_A_30954390	NC_021164.1	Ca_Kabuli_Chr05	30954390	CC	TT	TT	INTERGENIC		
SNP_36904_A_30954926	NC_021164.1	Ca_Kabuli_Chr05	30954926	GG	AA	AA	INTERGENIC		
SNP_36905_A_30958709	NC_021164.1	Ca_Kabuli_Chr05	30958709	AA	GG	GG	INTERGENIC		
SNP_36906_A_30958766	NC_021164.1	Ca_Kabuli_Chr05	30958766	TT	CC	CC	INTERGENIC		
SNP_36909_A_30960669	NC_021164.1	Ca_Kabuli_Chr05	30960669	TT	GG	GG	DRR	101497534	polyol transporter 5-like
SNP_36910_A_30960716	NC_021164.1	Ca_Kabuli_Chr05	30960716	AA	GG	GG	DRR	101497534	polyol transporter 5-like
SNP_36911_A_30961637	NC_021164.1	Ca_Kabuli_Chr05	30961637	CC	GG	GG	INTERGENIC		
SNP_36912_A_30961648	NC_021164.1	Ca_Kabuli_Chr05	30961648	TT	AA	AA	INTERGENIC		
SNP_36914_A_30965228	NC_021164.1	Ca_Kabuli_Chr05	30965228	AA	TT	TT	URR	101497534	polyol transporter 5-like
SNP_36915_A_30966855	NC_021164.1	Ca_Kabuli_Chr05	30966855	CC	GG	GG	INTERGENIC		
SNP_36916_A_30967660	NC_021164.1	Ca_Kabuli_Chr05	30967660	GG	TT	TT	INTERGENIC		
SNP_36917_A_30970426	NC_021164.1	Ca_Kabuli_Chr05	30970426	GG	AA	AA	INTRON	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36918_A_30972080	NC_021164.1	Ca_Kabuli_Chr05	30972080	CC	TT	TT	INTRON	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36919_A_30981970	NC_021164.1	Ca_Kabuli_Chr05	30981970	CC	TT	TT	INTRON	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36920_A_30981982	NC_021164.1	Ca_Kabuli_Chr05	30981982	AA	TT	TT	INTRON	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36921_A_30981983	NC_021164.1	Ca_Kabuli_Chr05	30981983	GG	AA	AA	INTRON	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36922_A_30986470	NC_021164.1	Ca_Kabuli_Chr05	30986470	AA	GG	GG	URR	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36923_A_30986685	NC_021164.1	Ca_Kabuli_Chr05	30986685	CC	TT	TT	URR	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36925_A_30986876	NC_021164.1	Ca_Kabuli_Chr05	30986876	GG	AA	AA	URR	101497866	phosphatidylinositol 4-kinase alpha 1
SNP_36926_A_30986932	NC_021164.1	Ca_Kabuli_Chr05	30986932	AA	GG	GG	URR	101497866	phosphatidylinositol 4-kinase alpha 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_36927_A_30992909	NC_021164.1	Ca_Kabuli_Chr05	30992909	GG	AA	AA	INTRON	101498413	AT-rich interactive domain-containing protein 5-like
SNP_36929_A_30997375	NC_021164.1	Ca_Kabuli_Chr05	30997375	TT	AA	AA	URR	101498413	AT-rich interactive domain-containing protein 5-like
SNP_36930_A_30998503	NC_021164.1	Ca_Kabuli_Chr05	30998503	GG	AA	AA	URR	101498413	AT-rich interactive domain-containing protein 5-like
SNP_36931_A_31000350	NC_021164.1	Ca_Kabuli_Chr05	31000350	AA	TT	TT	DRR	101506865	AT-hook motif nuclear-localized protein 20-like
SNP_36932_A_31000357	NC_021164.1	Ca_Kabuli_Chr05	31000357	AA	GG	GG	DRR	101506865	AT-hook motif nuclear-localized protein 20-like
SNP_36933_A_31001519	NC_021164.1	Ca_Kabuli_Chr05	31001519	GG	AA	AA	NON_SYNONYMOUS_CODING	101506865	AT-hook motif nuclear-localized protein 20-like
SNP_36935_A_31003522	NC_021164.1	Ca_Kabuli_Chr05	31003522	GG	CC	CC	URR	101506865	AT-hook motif nuclear-localized protein 20-like
SNP_36936_A_31003860	NC_021164.1	Ca_Kabuli_Chr05	31003860	TT	CC	CC	INTERGENIC		
SNP_36937_A_31007528	NC_021164.1	Ca_Kabuli_Chr05	31007528	TT	CC	CC	INTERGENIC		
SNP_36938_A_31007839	NC_021164.1	Ca_Kabuli_Chr05	31007839	AA	TT	TT	INTERGENIC		
SNP_36939_A_31008252	NC_021164.1	Ca_Kabuli_Chr05	31008252	AA	TT	TT	DRR	101498951	uncharacterized LOC101498951
SNP_36940_A_31009492	NC_021164.1	Ca_Kabuli_Chr05	31009492	GG	TT	TT	DRR	101498951	uncharacterized LOC101498951
SNP_36941_A_31011542	NC_021164.1	Ca_Kabuli_Chr05	31011542	TT	CC	CC	INTRON	101498951	uncharacterized LOC101498951
SNP_36942_A_31011576	NC_021164.1	Ca_Kabuli_Chr05	31011576	TT	CC	CC	INTRON	101498951	uncharacterized LOC101498951
SNP_36943_A_31011822	NC_021164.1	Ca_Kabuli_Chr05	31011822	CC	TT	TT	INTRON	101498951	uncharacterized LOC101498951
SNP_36944_A_31012656	NC_021164.1	Ca_Kabuli_Chr05	31012656	CC	TT	TT	URR	101498951	uncharacterized LOC101498951
SNP_36945_A_31013422	NC_021164.1	Ca_Kabuli_Chr05	31013422	AA	GG	GG	URR	101498951	uncharacterized LOC101498951
SNP_36946_A_31013429	NC_021164.1	Ca_Kabuli_Chr05	31013429	AA	GG	GG	URR	101498951	uncharacterized LOC101498951
SNP_36947_A_31016215	NC_021164.1	Ca_Kabuli_Chr05	31016215	CC	TT	TT	INTERGENIC		
SNP_36948_A_31022790	NC_021164.1	Ca_Kabuli_Chr05	31022790	CC	TT	TT	INTERGENIC		
SNP_36949_A_31027925	NC_021164.1	Ca_Kabuli_Chr05	31027925	AA	CC	CC	URR	101499275	RNA-binding protein 24-A
SNP_36950_A_31027943	NC_021164.1	Ca_Kabuli_Chr05	31027943	CC	TT	TT	URR	101499275	RNA-binding protein 24-A

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SNP_36951_A_31028175	NC_021164.1	Ca_Kabuli_Chr05	31028175	GG	AA	AA	URR	101499275	RNA-binding protein 24-A
SNP_36952_A_31029164	NC_021164.1	Ca_Kabuli_Chr05	31029164	CC	TT	TT	URR	101499275	RNA-binding protein 24-A
SNP_36953_A_31033246	NC_021164.1	Ca_Kabuli_Chr05	31033246	TT	GG	GG	DRR	101499898	psbP domain-containing protein 3, chloroplastic
SNP_36954_A_31037729	NC_021164.1	Ca_Kabuli_Chr05	31037729	GG	AA	AA	URR	101499898	psbP domain-containing protein 3, chloroplastic
SNP_36955_A_31037779	NC_021164.1	Ca_Kabuli_Chr05	31037779	CC	TT	TT	URR	101499898	psbP domain-containing protein 3, chloroplastic
SNP_36956_A_31038089	NC_021164.1	Ca_Kabuli_Chr05	31038089	GG	AA	AA	URR	101499898	psbP domain-containing protein 3, chloroplastic
SNP_36958_A_31038825	NC_021164.1	Ca_Kabuli_Chr05	31038825	CC	GG	GG	URR	101499898	psbP domain-containing protein 3, chloroplastic
SNP_36959_A_31039652	NC_021164.1	Ca_Kabuli_Chr05	31039652	CC	TT	TT	DRR	101507512	AT-hook motif nuclear-localized protein 10-like
SNP_36960_A_31039661	NC_021164.1	Ca_Kabuli_Chr05	31039661	CC	TT	TT	DRR	101507512	AT-hook motif nuclear-localized protein 10-like
SNP_36961_A_31042040	NC_021164.1	Ca_Kabuli_Chr05	31042040	GG	CC	CC	INTERGENIC		
SNP_36962_A_31044689	NC_021164.1	Ca_Kabuli_Chr05	31044689	GG	AA	AA	DRR	101500447	xylem cysteine proteinase 2
SNP_36963_A_31044731	NC_021164.1	Ca_Kabuli_Chr05	31044731	TT	CC	CC	DRR	101500447	xylem cysteine proteinase 2
SNP_36964_A_31044869	NC_021164.1	Ca_Kabuli_Chr05	31044869	TT	CC	CC	DRR	101500447	xylem cysteine proteinase 2
SNP_36965_A_31045511	NC_021164.1	Ca_Kabuli_Chr05	31045511	AA	CC	CC	URR	101507512	AT-hook motif nuclear-localized protein 10-like
SNP_36966_A_31045540	NC_021164.1	Ca_Kabuli_Chr05	31045540	TT	CC	CC	URR	101507512	AT-hook motif nuclear-localized protein 10-like
SNP_36968_A_31052387	NC_021164.1	Ca_Kabuli_Chr05	31052387	AA	TT	TT	DRR	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36970_A_31052475	NC_021164.1	Ca_Kabuli_Chr05	31052475	CC	TT	TT	DRR	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36971_A_31054293	NC_021164.1	Ca_Kabuli_Chr05	31054293	CC	TT	TT	INTRON	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36972_A_31054554	NC_021164.1	Ca_Kabuli_Chr05	31054554	CC	AA	AA	INTRON	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36973_A_31054571	NC_021164.1	Ca_Kabuli_Chr05	31054571	TT	CC	CC	INTRON	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36974_A_31055251	NC_021164.1	Ca_Kabuli_Chr05	31055251	CC	GG	GG	URR	101500759	protein CUP-SHAPED COTYLEDON 3
SNP_36975_A_31061099	NC_021164.1	Ca_Kabuli_Chr05	31061099	AA	GG	GG	DRR	101501071	monosaccharide-sensing protein 2-like

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SNP_36976_A_31061300	NC_021164.1	Ca_Kabuli_Chr05	31061300	TT	AA	AA	DRR	101501071	monosaccharide-sensing protein 2-like
SNP_36977_A_31061340	NC_021164.1	Ca_Kabuli_Chr05	31061340	CC	TT	TT	DRR	101501071	monosaccharide-sensing protein 2-like
SNP_36978_A_31063612	NC_021164.1	Ca_Kabuli_Chr05	31063612	GG	AA	AA	INTRON	101501071	monosaccharide-sensing protein 2-like
SNP_36980_A_31066402	NC_021164.1	Ca_Kabuli_Chr05	31066402	CC	GG	GG	URR	101501071	monosaccharide-sensing protein 2-like
SNP_36981_A_31068700	NC_021164.1	Ca_Kabuli_Chr05	31068700	CC	TT	TT	INTERGENIC		
SNP_36982_A_31068751	NC_021164.1	Ca_Kabuli_Chr05	31068751	AA	GG	GG	INTERGENIC		
SNP_36984_A_31072848	NC_021164.1	Ca_Kabuli_Chr05	31072848	CC	GG	GG	URR	101501604	uncharacterized LOC101501604
SNP_36985_A_31072861	NC_021164.1	Ca_Kabuli_Chr05	31072861	AA	GG	GG	URR	101501604	uncharacterized LOC101501604
SNP_36986_A_31076227	NC_021164.1	Ca_Kabuli_Chr05	31076227	TT	AA	AA	INTERGENIC		
SNP_36987_A_31077219	NC_021164.1	Ca_Kabuli_Chr05	31077219	GG	AA	AA	INTERGENIC		
SNP_36988_A_31077220	NC_021164.1	Ca_Kabuli_Chr05	31077220	CC	AA	AA	INTERGENIC		
SNP_36989_A_31077704	NC_021164.1	Ca_Kabuli_Chr05	31077704	AA	GG	GG	INTERGENIC		
SNP_36990_A_31078723	NC_021164.1	Ca_Kabuli_Chr05	31078723	TT	AA	AA	INTERGENIC		
SNP_36991_A_31080455	NC_021164.1	Ca_Kabuli_Chr05	31080455	TT	CC	CC	DRR	101501916	RING-H2 finger protein ATL80-like
SNP_36992_A_31080484	NC_021164.1	Ca_Kabuli_Chr05	31080484	AA	GG	GG	DRR	101501916	RING-H2 finger protein ATL80-like
SNP_36993_A_31083370	NC_021164.1	Ca_Kabuli_Chr05	31083370	AA	CC	CC	URR	101501916	RING-H2 finger protein ATL80-like
SNP_36994_A_31084228	NC_021164.1	Ca_Kabuli_Chr05	31084228	TT	CC	CC	DRR	101502247	outer envelope pore protein 21, chloroplastic
SNP_36995_A_31084237	NC_021164.1	Ca_Kabuli_Chr05	31084237	AA	TT	TT	DRR	101502247	outer envelope pore protein 21, chloroplastic
SNP_36997_A_31084430	NC_021164.1	Ca_Kabuli_Chr05	31084430	GG	TT	TT	URR	101501916	RING-H2 finger protein ATL80-like
SNP_36998_A_31084431	NC_021164.1	Ca_Kabuli_Chr05	31084431	GG	TT	TT	URR	101501916	RING-H2 finger protein ATL80-like
SNP_36999_A_31084754	NC_021164.1	Ca_Kabuli_Chr05	31084754	CC	TT	TT	INTERGENIC		
SNP_37000_A_31087265	NC_021164.1	Ca_Kabuli_Chr05	31087265	AA	TT	TT	URR	101502247	outer envelope pore protein 21, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37001_A_31087291	NC_021164.1	Ca_Kabuli_Chr05	31087291	CC	AA	AA	URR	101502247	outer envelope pore protein 21, chloroplastic
SNP_37002_A_31087486	NC_021164.1	Ca_Kabuli_Chr05	31087486	TT	CC	CC	DRR	101502563	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1A
SNP_37003_A_31089953	NC_021164.1	Ca_Kabuli_Chr05	31089953	GG	TT	TT	INTERGENIC		
SNP_37005_A_31094177	NC_021164.1	Ca_Kabuli_Chr05	31094177	TT	AA	AA	DRR	101502879	peptidyl-prolyl cis-trans isomerase FKBP18, chloroplastic
SNP_37006_A_31096753	NC_021164.1	Ca_Kabuli_Chr05	31096753	TT	CC	CC	DRR	101503406	MLO-like protein 9
SNP_37007_A_31096766	NC_021164.1	Ca_Kabuli_Chr05	31096766	AA	CC	CC	DRR	101503406	MLO-like protein 9
SNP_37008_A_31100792	NC_021164.1	Ca_Kabuli_Chr05	31100792	AA	TT	TT	INTERGENIC		
SNP_37009_A_31103133	NC_021164.1	Ca_Kabuli_Chr05	31103133	TT	AA	AA	INTERGENIC		
SNP_37010_A_31104155	NC_021164.1	Ca_Kabuli_Chr05	31104155	AA	TT	TT	DRR	101503956	protein S-acyltransferase 21
SNP_37011_A_31110257	NC_021164.1	Ca_Kabuli_Chr05	31110257	CC	TT	TT	URR	101503956	protein S-acyltransferase 21
SNP_37013_A_31111799	NC_021164.1	Ca_Kabuli_Chr05	31111799	TT	CC	CC	URR	101503956	protein S-acyltransferase 21
SNP_37014_A_31111800	NC_021164.1	Ca_Kabuli_Chr05	31111800	CC	AA	AA	URR	101503956	protein S-acyltransferase 21
SNP_37015_A_31111836	NC_021164.1	Ca_Kabuli_Chr05	31111836	GG	AA	AA	URR	101503956	protein S-acyltransferase 21
SNP_37016_A_31111865	NC_021164.1	Ca_Kabuli_Chr05	31111865	CC	TT	TT	URR	101503956	protein S-acyltransferase 21
SNP_37017_A_31113502	NC_021164.1	Ca_Kabuli_Chr05	31113502	GG	TT	TT	INTERGENIC		
SNP_37018_A_31113552	NC_021164.1	Ca_Kabuli_Chr05	31113552	GG	CC	CC	INTERGENIC		
SNP_37019_A_31114681	NC_021164.1	Ca_Kabuli_Chr05	31114681	TT	CC	CC	INTERGENIC		
SNP_37020_A_31114797	NC_021164.1	Ca_Kabuli_Chr05	31114797	GG	AA	AA	INTERGENIC		
SNP_37021_A_31114878	NC_021164.1	Ca_Kabuli_Chr05	31114878	AA	GG	GG	INTERGENIC		
SNP_37022_A_31114986	NC_021164.1	Ca_Kabuli_Chr05	31114986	AA	TT	TT	INTERGENIC		
SNP_37023_A_31118940	NC_021164.1	Ca_Kabuli_Chr05	31118940	TT	CC	CC	DRR	101504273	MLO protein homolog 1-like
SNP_37025_A_31122426	NC_021164.1	Ca_Kabuli_Chr05	31122426	TT	CC	CC	URR	101504273	MLO protein homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37026_A_31122630	NC_021164.1	Ca_Kabuli_Chr05	31122630	CC	AA	AA	URR	101504273	MLO protein homolog 1-like
SNP_37027_A_31128860	NC_021164.1	Ca_Kabuli_Chr05	31128860	AA	GG	GG	INTERGENIC		
SNP_37028_A_31129471	NC_021164.1	Ca_Kabuli_Chr05	31129471	AA	GG	GG	DRR	101504606	uncharacterized LOC101504606
SNP_37029_A_31129668	NC_021164.1	Ca_Kabuli_Chr05	31129668	TT	CC	CC	DRR	101504606	uncharacterized LOC101504606
SNP_37030_A_31129679	NC_021164.1	Ca_Kabuli_Chr05	31129679	GG	AA	AA	DRR	101504606	uncharacterized LOC101504606
SNP_37031_A_31129694	NC_021164.1	Ca_Kabuli_Chr05	31129694	CC	GG	GG	DRR	101504606	uncharacterized LOC101504606
SNP_37032_A_31129724	NC_021164.1	Ca_Kabuli_Chr05	31129724	CC	TT	TT	DRR	101504606	uncharacterized LOC101504606
SNP_37033_A_31129979	NC_021164.1	Ca_Kabuli_Chr05	31129979	AA	GG	GG	DRR	101504606	uncharacterized LOC101504606
SNP_37034_A_31130186	NC_021164.1	Ca_Kabuli_Chr05	31130186	AA	CC	CC	DRR	101504606	uncharacterized LOC101504606
SNP_37035_A_31130187	NC_021164.1	Ca_Kabuli_Chr05	31130187	GG	AA	AA	DRR	101504606	uncharacterized LOC101504606
SNP_37036_A_31136680	NC_021164.1	Ca_Kabuli_Chr05	31136680	GG	AA	AA	INTERGENIC		
SNP_37037_A_31148684	NC_021164.1	Ca_Kabuli_Chr05	31148684	AA	GG	GG	INTRON	101506006	protein canopy-1
SNP_37038_A_31153276	NC_021164.1	Ca_Kabuli_Chr05	31153276	GG	AA	AA	INTERGENIC		
SNP_37039_A_31154284	NC_021164.1	Ca_Kabuli_Chr05	31154284	AA	CC	CC	INTERGENIC		
SNP_37040_A_31165225	NC_021164.1	Ca_Kabuli_Chr05	31165225	AA	GG	GG	SYNONYMOUS_CODING	101507091	U-box domain-containing protein 44-like
SNP_37041_A_31170202	NC_021164.1	Ca_Kabuli_Chr05	31170202	GG	TT	TT	DRR	101508239	epidermal growth factor receptor substrate 15
SNP_37042_A_31170497	NC_021164.1	Ca_Kabuli_Chr05	31170497	AA	GG	GG	DRR	101508239	epidermal growth factor receptor substrate 15
SNP_37043_A_31173589	NC_021164.1	Ca_Kabuli_Chr05	31173589	GG	AA	AA	INTERGENIC		
SNP_37044_A_31178705	NC_021164.1	Ca_Kabuli_Chr05	31178705	AA	CC	CC	INTRON	101508239	epidermal growth factor receptor substrate 15
SNP_37045_A_31182495	NC_021164.1	Ca_Kabuli_Chr05	31182495	AA	TT	TT	INTERGENIC		
SNP_37046_A_31182760	NC_021164.1	Ca_Kabuli_Chr05	31182760	AA	TT	TT	INTERGENIC		
SNP_37047_A_31182796	NC_021164.1	Ca_Kabuli_Chr05	31182796	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37048_A_31182822	NC_021164.1	Ca_Kabuli_Chr05	31182822	AA	GG	GG	INTERGENIC		
SNP_37049_A_31182826	NC_021164.1	Ca_Kabuli_Chr05	31182826	CC	TT	TT	INTERGENIC		
SNP_37050_A_31182828	NC_021164.1	Ca_Kabuli_Chr05	31182828	AA	GG	GG	INTERGENIC		
SNP_37051_A_31183352	NC_021164.1	Ca_Kabuli_Chr05	31183352	CC	AA	AA	INTERGENIC		
SNP_37052_A_31185410	NC_021164.1	Ca_Kabuli_Chr05	31185410	AA	GG	GG	INTRON	101507722	WUSCHEL-related homeobox 8-like
SNP_37053_A_31185981	NC_021164.1	Ca_Kabuli_Chr05	31185981	AA	CC	CC	INTRON	101507722	WUSCHEL-related homeobox 8-like
SNP_37054_A_31187062	NC_021164.1	Ca_Kabuli_Chr05	31187062	GG	AA	AA	URR	101507722	WUSCHEL-related homeobox 8-like
SNP_37055_A_31187069	NC_021164.1	Ca_Kabuli_Chr05	31187069	TT	AA	AA	URR	101507722	WUSCHEL-related homeobox 8-like
SNP_37057_A_31189330	NC_021164.1	Ca_Kabuli_Chr05	31189330	CC	AA	AA	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37058_A_31189568	NC_021164.1	Ca_Kabuli_Chr05	31189568	TT	CC	CC	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37059_A_31189625	NC_021164.1	Ca_Kabuli_Chr05	31189625	CC	TT	TT	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37060_A_31189915	NC_021164.1	Ca_Kabuli_Chr05	31189915	CC	TT	TT	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37061_A_31189947	NC_021164.1	Ca_Kabuli_Chr05	31189947	TT	AA	AA	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37062_A_31189951	NC_021164.1	Ca_Kabuli_Chr05	31189951	TT	AA	AA	DRR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37063_A_31190807	NC_021164.1	Ca_Kabuli_Chr05	31190807	GG	CC	CC	URR	101508239	epidermal growth factor receptor substrate 15
SNP_37064_A_31191348	NC_021164.1	Ca_Kabuli_Chr05	31191348	CC	TT	TT	URR	101508239	epidermal growth factor receptor substrate 15
SNP_37065_A_31191629	NC_021164.1	Ca_Kabuli_Chr05	31191629	TT	AA	AA	INTERGENIC		
SNP_37066_A_31191741	NC_021164.1	Ca_Kabuli_Chr05	31191741	AA	TT	TT	INTERGENIC		
SNP_37067_A_31191749	NC_021164.1	Ca_Kabuli_Chr05	31191749	GG	AA	AA	INTERGENIC		
SNP_37068_A_31191766	NC_021164.1	Ca_Kabuli_Chr05	31191766	AA	GG	GG	INTERGENIC		
SNP_37069_A_31191770	NC_021164.1	Ca_Kabuli_Chr05	31191770	AA	GG	GG	INTERGENIC		
SNP_37070_A_31191792	NC_021164.1	Ca_Kabuli_Chr05	31191792	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37071_A_31192068	NC_021164.1	Ca_Kabuli_Chr05	31192068	AA	GG	GG	INTERGENIC		
SNP_37073_A_31193852	NC_021164.1	Ca_Kabuli_Chr05	31193852	AA	TT	TT	DRR	101509084	HMG1/2-like protein
SNP_37074_A_31195437	NC_021164.1	Ca_Kabuli_Chr05	31195437	AA	CC	CC	URR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37075_A_31195477	NC_021164.1	Ca_Kabuli_Chr05	31195477	CC	GG	GG	URR	101510057	putative 12-oxophytodienoate reductase 11
SNP_37076_A_31196857	NC_021164.1	Ca_Kabuli_Chr05	31196857	CC	AA	AA	URR	101509084	HMG1/2-like protein
SNP_37077_A_31197107	NC_021164.1	Ca_Kabuli_Chr05	31197107	AA	CC	CC	URR	101509084	HMG1/2-like protein
SNP_37078_A_31197142	NC_021164.1	Ca_Kabuli_Chr05	31197142	TT	AA	AA	URR	101509084	HMG1/2-like protein
SNP_37080_A_31197207	NC_021164.1	Ca_Kabuli_Chr05	31197207	AA	GG	GG	URR	101509084	HMG1/2-like protein
SNP_37081_A_31228848	NC_021164.1	Ca_Kabuli_Chr05	31228848	TT	CC	CC	INTERGENIC		
SNP_37082_A_31228849	NC_021164.1	Ca_Kabuli_Chr05	31228849	CC	TT	TT	INTERGENIC		
SNP_37083_A_31229556	NC_021164.1	Ca_Kabuli_Chr05	31229556	CC	TT	TT	INTERGENIC		
SNP_37084_A_31229561	NC_021164.1	Ca_Kabuli_Chr05	31229561	CC	TT	TT	INTERGENIC		
SNP_37085_A_31229599	NC_021164.1	Ca_Kabuli_Chr05	31229599	GG	AA	AA	INTERGENIC		
SNP_37086_A_31229729	NC_021164.1	Ca_Kabuli_Chr05	31229729	AA	GG	GG	INTERGENIC		
SNP_37088_A_31229894	NC_021164.1	Ca_Kabuli_Chr05	31229894	GG	AA	AA	INTERGENIC		
SNP_37089_A_31229938	NC_021164.1	Ca_Kabuli_Chr05	31229938	GG	AA	AA	INTERGENIC		
SNP_37090_A_31229943	NC_021164.1	Ca_Kabuli_Chr05	31229943	GG	AA	AA	INTERGENIC		
SNP_37091_A_31230091	NC_021164.1	Ca_Kabuli_Chr05	31230091	TT	GG	GG	INTERGENIC		
SNP_37092_A_31230161	NC_021164.1	Ca_Kabuli_Chr05	31230161	AA	CC	CC	INTERGENIC		
SNP_37093_A_31230192	NC_021164.1	Ca_Kabuli_Chr05	31230192	CC	TT	TT	INTERGENIC		
SNP_37094_A_31230202	NC_021164.1	Ca_Kabuli_Chr05	31230202	TT	CC	CC	INTERGENIC		
SNP_37095_A_31230204	NC_021164.1	Ca_Kabuli_Chr05	31230204	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37096_A_31238626	NC_021164.1	Ca_Kabuli_Chr05	31238626	TT	CC	CC	INTERGENIC		
SNP_37097_A_31241512	NC_021164.1	Ca_Kabuli_Chr05	31241512	AA	GG	GG	INTRON	101510814	uncharacterized LOC101510814
SNP_37099_A_31242998	NC_021164.1	Ca_Kabuli_Chr05	31242998	CC	TT	TT	INTRON	101510814	uncharacterized LOC101510814
SNP_37100_A_31242999	NC_021164.1	Ca_Kabuli_Chr05	31242999	AA	GG	GG	INTRON	101510814	uncharacterized LOC101510814
SNP_37101_A_31244299	NC_021164.1	Ca_Kabuli_Chr05	31244299	TT	GG	GG	INTERGENIC		
SNP_37102_A_31245713	NC_021164.1	Ca_Kabuli_Chr05	31245713	TT	CC	CC	INTERGENIC		
SNP_37103_A_31248758	NC_021164.1	Ca_Kabuli_Chr05	31248758	TT	AA	AA	DRR	101508768	UPF0392 protein At1g27200
SNP_37104_A_31249031	NC_021164.1	Ca_Kabuli_Chr05	31249031	TT	CC	CC	DRR	101508768	UPF0392 protein At1g27200
SNP_37105_A_31254814	NC_021164.1	Ca_Kabuli_Chr05	31254814	TT	CC	CC	URR	101508768	UPF0392 protein At1g27200
SNP_37106_A_31255439	NC_021164.1	Ca_Kabuli_Chr05	31255439	AA	GG	GG	INTERGENIC		
SNP_37110_A_31266191	NC_021164.1	Ca_Kabuli_Chr05	31266191	GG	AA	AA	URR	101511134	serine/threonine-protein kinase CDL1-like
SNP_37111_A_31266194	NC_021164.1	Ca_Kabuli_Chr05	31266194	TT	GG	GG	URR	101511134	serine/threonine-protein kinase CDL1-like
SNP_37112_A_31272103	NC_021164.1	Ca_Kabuli_Chr05	31272103	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37113_A_31272119	NC_021164.1	Ca_Kabuli_Chr05	31272119	CC	TT	TT	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37114_A_31272177	NC_021164.1	Ca_Kabuli_Chr05	31272177	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37115_A_31272183	NC_021164.1	Ca_Kabuli_Chr05	31272183	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37116_A_31272185	NC_021164.1	Ca_Kabuli_Chr05	31272185	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37117_A_31272204	NC_021164.1	Ca_Kabuli_Chr05	31272204	GG	TT	TT	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37118_A_31272286	NC_021164.1	Ca_Kabuli_Chr05	31272286	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37119_A_31272317	NC_021164.1	Ca_Kabuli_Chr05	31272317	GG	TT	TT	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37120_A_31272601	NC_021164.1	Ca_Kabuli_Chr05	31272601	TT	CC	CC	INTRON	101511443	probable serine/threonine-protein kinase Cx32, chloroplastic
SNP_37121_A_31282581	NC_021164.1	Ca_Kabuli_Chr05	31282581	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37122_A_31282877	NC_021164.1	Ca_Kabuli_Chr05	31282877	GG	AA	AA	INTERGENIC		
SNP_37125_A_31283401	NC_021164.1	Ca_Kabuli_Chr05	31283401	AA	GG	GG	INTERGENIC		
SNP_37126_A_31286463	NC_021164.1	Ca_Kabuli_Chr05	31286463	CC	TT	TT	INTERGENIC		
SNP_37127_A_31290133	NC_021164.1	Ca_Kabuli_Chr05	31290133	TT	CC	CC	INTERGENIC		
SNP_37128_A_31292009	NC_021164.1	Ca_Kabuli_Chr05	31292009	TT	AA	AA	DRR	101512418	Niemann-Pick C1 protein
SNP_37129_A_31292050	NC_021164.1	Ca_Kabuli_Chr05	31292050	AA	GG	GG	DRR	101512418	Niemann-Pick C1 protein
SNP_37130_A_31292397	NC_021164.1	Ca_Kabuli_Chr05	31292397	GG	AA	AA	DRR	101512418	Niemann-Pick C1 protein
SNP_37131_A_31298582	NC_021164.1	Ca_Kabuli_Chr05	31298582	GG	AA	AA	NON_SYNONYMOUS_CODING	101512418	Niemann-Pick C1 protein
SNP_37132_A_31299553	NC_021164.1	Ca_Kabuli_Chr05	31299553	CC	AA	AA	INTRON	101512418	Niemann-Pick C1 protein
SNP_37133_A_31305079	NC_021164.1	Ca_Kabuli_Chr05	31305079	TT	CC	CC	INTRON	101512418	Niemann-Pick C1 protein
SNP_37134_A_31306493	NC_021164.1	Ca_Kabuli_Chr05	31306493	AA	GG	GG	INTRON	101512418	Niemann-Pick C1 protein
SNP_37135_A_31308752	NC_021164.1	Ca_Kabuli_Chr05	31308752	CC	AA	AA	INTERGENIC		
SNP_37137_A_31311438	NC_021164.1	Ca_Kabuli_Chr05	31311438	GG	AA	AA	DRR	101512737	protein NLP4
SNP_37138_A_31314396	NC_021164.1	Ca_Kabuli_Chr05	31314396	AA	GG	GG	SYNONYMOUS_CODING	101512737	protein NLP4
SNP_37139_A_31314569	NC_021164.1	Ca_Kabuli_Chr05	31314569	AA	GG	GG	NON_SYNONYMOUS_CODING	101512737	protein NLP4
SNP_37140_A_31319947	NC_021164.1	Ca_Kabuli_Chr05	31319947	AA	TT	TT	INTERGENIC		
SNP_37141_A_31320144	NC_021164.1	Ca_Kabuli_Chr05	31320144	CC	TT	TT	INTERGENIC		
SNP_37142_A_31320185	NC_021164.1	Ca_Kabuli_Chr05	31320185	TT	GG	GG	INTERGENIC		
SNP_37143_A_31322120	NC_021164.1	Ca_Kabuli_Chr05	31322120	CC	GG	GG	INTERGENIC		
SNP_37144_A_31322842	NC_021164.1	Ca_Kabuli_Chr05	31322842	TT	CC	CC	INTERGENIC		
SNP_37145_A_31325430	NC_021164.1	Ca_Kabuli_Chr05	31325430	GG	TT	TT	INTERGENIC		
SNP_37146_A_31325693	NC_021164.1	Ca_Kabuli_Chr05	31325693	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37147_A_31325713	NC_021164.1	Ca_Kabuli_Chr05	31325713	CC	AA	AA	INTERGENIC		
SNP_37148_A_31327038	NC_021164.1	Ca_Kabuli_Chr05	31327038	TT	CC	CC	INTERGENIC		
SNP_37149_A_31327047	NC_021164.1	Ca_Kabuli_Chr05	31327047	TT	CC	CC	INTERGENIC		
SNP_37150_A_31328151	NC_021164.1	Ca_Kabuli_Chr05	31328151	TT	CC	CC	INTERGENIC		
SNP_37151_A_31329109	NC_021164.1	Ca_Kabuli_Chr05	31329109	GG	AA	AA	DRR	101513499	catalase-4
SNP_37152_A_31329157	NC_021164.1	Ca_Kabuli_Chr05	31329157	TT	CC	CC	DRR	101513499	catalase-4
SNP_37153_A_31329237	NC_021164.1	Ca_Kabuli_Chr05	31329237	TT	CC	CC	DRR	101513499	catalase-4
SNP_37154_A_31330565	NC_021164.1	Ca_Kabuli_Chr05	31330565	CC	TT	TT	INTRON	101513499	catalase-4
SNP_37155_A_31330627	NC_021164.1	Ca_Kabuli_Chr05	31330627	CC	TT	TT	INTRON	101513499	catalase-4
SNP_37156_A_31332316	NC_021164.1	Ca_Kabuli_Chr05	31332316	TT	CC	CC	INTRON	101513499	catalase-4
SNP_37157_A_31332318	NC_021164.1	Ca_Kabuli_Chr05	31332318	TT	AA	AA	INTRON	101513499	catalase-4
SNP_37159_A_31334233	NC_021164.1	Ca_Kabuli_Chr05	31334233	AA	TT	TT	INTERGENIC		
SNP_37160_A_31334580	NC_021164.1	Ca_Kabuli_Chr05	31334580	TT	CC	CC	URR	101513499	catalase-4
SNP_37161_A_31334756	NC_021164.1	Ca_Kabuli_Chr05	31334756	GG	AA	AA	URR	101513499	catalase-4
SNP_37162_A_31334824	NC_021164.1	Ca_Kabuli_Chr05	31334824	GG	AA	AA	URR	101513499	catalase-4
SNP_37164_A_31334928	NC_021164.1	Ca_Kabuli_Chr05	31334928	AA	CC	CC	URR	101513499	catalase-4
SNP_37165_A_31335067	NC_021164.1	Ca_Kabuli_Chr05	31335067	TT	AA	AA	URR	101513499	catalase-4
SNP_37166_A_31335074	NC_021164.1	Ca_Kabuli_Chr05	31335074	GG	AA	AA	URR	101513499	catalase-4
SNP_37167_A_31335132	NC_021164.1	Ca_Kabuli_Chr05	31335132	GG	AA	AA	URR	101513499	catalase-4
SNP_37168_A_31336428	NC_021164.1	Ca_Kabuli_Chr05	31336428	CC	TT	TT	INTERGENIC		
SNP_37169_A_31337167	NC_021164.1	Ca_Kabuli_Chr05	31337167	CC	GG	GG	INTERGENIC		
SNP_37170_A_31337178	NC_021164.1	Ca_Kabuli_Chr05	31337178	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37171_A_31337180	NC_021164.1	Ca_Kabuli_Chr05	31337180	GG	TT	TT	INTERGENIC		
SNP_37172_A_31337211	NC_021164.1	Ca_Kabuli_Chr05	31337211	TT	CC	CC	INTERGENIC		
SNP_37173_A_31337213	NC_021164.1	Ca_Kabuli_Chr05	31337213	GG	AA	AA	INTERGENIC		
SNP_37174_A_31337438	NC_021164.1	Ca_Kabuli_Chr05	31337438	CC	TT	TT	INTERGENIC		
SNP_37175_A_31338771	NC_021164.1	Ca_Kabuli_Chr05	31338771	GG	CC	CC	INTERGENIC		
SNP_37176_A_31341276	NC_021164.1	Ca_Kabuli_Chr05	31341276	GG	AA	AA	INTERGENIC		
SNP_37177_A_31341297	NC_021164.1	Ca_Kabuli_Chr05	31341297	TT	GG	GG	INTERGENIC		
SNP_37178_A_31344652	NC_021164.1	Ca_Kabuli_Chr05	31344652	AA	CC	CC	INTRON	101514040	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_37179_A_31346495	NC_021164.1	Ca_Kabuli_Chr05	31346495	TT	AA	AA	INTRON	101514040	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_37180_A_31346496	NC_021164.1	Ca_Kabuli_Chr05	31346496	GG	TT	TT	INTRON	101514040	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_37181_A_31353118	NC_021164.1	Ca_Kabuli_Chr05	31353118	AA	TT	TT	URR	101514040	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_37182_A_31353157	NC_021164.1	Ca_Kabuli_Chr05	31353157	CC	TT	TT	URR	101514040	1,4-alpha-glucan-branching chloroplastic/amyloplastic enzyme 1,
SNP_37183_A_31355391	NC_021164.1	Ca_Kabuli_Chr05	31355391	AA	GG	GG	INTERGENIC		
SNP_37184_A_31355538	NC_021164.1	Ca_Kabuli_Chr05	31355538	TT	GG	GG	INTERGENIC		
SNP_37185_A_31357509	NC_021164.1	Ca_Kabuli_Chr05	31357509	GG	CC	CC	INTERGENIC		
SNP_37186_A_31360025	NC_021164.1	Ca_Kabuli_Chr05	31360025	TT	GG	GG	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37187_A_31361262	NC_021164.1	Ca_Kabuli_Chr05	31361262	GG	TT	TT	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37188_A_31361295	NC_021164.1	Ca_Kabuli_Chr05	31361295	AA	CC	CC	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37189_A_31361362	NC_021164.1	Ca_Kabuli_Chr05	31361362	GG	AA	AA	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37190_A_31361366	NC_021164.1	Ca_Kabuli_Chr05	31361366	AA	GG	GG	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37191_A_31361538	NC_021164.1	Ca_Kabuli_Chr05	31361538	TT	CC	CC	DRR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37192_A_31362990	NC_021164.1	Ca_Kabuli_Chr05	31362990	CC	GG	GG	URR	101410588	transfer RNA lysine (anticodon CUU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37193_A_31363008	NC_021164.1	Ca_Kabuli_Chr05	31363008	CC	TT	TT	URR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37194_A_31363009	NC_021164.1	Ca_Kabuli_Chr05	31363009	CC	TT	TT	URR	101410588	transfer RNA lysine (anticodon CUU)
SNP_37195_A_31365418	NC_021164.1	Ca_Kabuli_Chr05	31365418	CC	AA	AA	DRR	101514921	carboxypeptidase A6
SNP_37196_A_31365913	NC_021164.1	Ca_Kabuli_Chr05	31365913	AA	GG	GG	DRR	101514921	carboxypeptidase A6
SNP_37197_A_31367525	NC_021164.1	Ca_Kabuli_Chr05	31367525	CC	TT	TT	INTERGENIC		
SNP_37198_A_31368647	NC_021164.1	Ca_Kabuli_Chr05	31368647	TT	CC	CC	INTERGENIC		
SNP_37199_A_31371482	NC_021164.1	Ca_Kabuli_Chr05	31371482	CC	AA	AA	URR	101514921	carboxypeptidase A6
SNP_37200_A_31371834	NC_021164.1	Ca_Kabuli_Chr05	31371834	AA	CC	CC	URR	101514921	carboxypeptidase A6
SNP_37201_A_31375146	NC_021164.1	Ca_Kabuli_Chr05	31375146	GG	TT	TT	URR	101515244	pentatricopeptide repeat-containing protein At5g42310, mitochondrial
SNP_37203_A_31377661	NC_021164.1	Ca_Kabuli_Chr05	31377661	AA	TT	TT	INTRON	101488430	pre-rRNA-processing protein TSR1 homolog
SNP_37204_A_31378325	NC_021164.1	Ca_Kabuli_Chr05	31378325	TT	CC	CC	INTRON	101488430	pre-rRNA-processing protein TSR1 homolog
SNP_37205_A_31379141	NC_021164.1	Ca_Kabuli_Chr05	31379141	GG	CC	CC	INTRON	101488430	pre-rRNA-processing protein TSR1 homolog
SNP_37206_A_31392553	NC_021164.1	Ca_Kabuli_Chr05	31392553	GG	AA	AA	URR	101488766	uncharacterized LOC101488766
SNP_37207_A_31392725	NC_021164.1	Ca_Kabuli_Chr05	31392725	GG	TT	TT	URR	101488766	uncharacterized LOC101488766
SNP_37208_A_31393002	NC_021164.1	Ca_Kabuli_Chr05	31393002	TT	CC	CC	URR	101488766	uncharacterized LOC101488766
SNP_37209_A_31396811	NC_021164.1	Ca_Kabuli_Chr05	31396811	CC	TT	TT	INTRON	101489097	uncharacterized protein At1g04910-like
SNP_37211_A_31412603	NC_021164.1	Ca_Kabuli_Chr05	31412603	CC	TT	TT	INTERGENIC		
SNP_37212_A_31412605	NC_021164.1	Ca_Kabuli_Chr05	31412605	CC	TT	TT	INTERGENIC		
SNP_37213_A_31412613	NC_021164.1	Ca_Kabuli_Chr05	31412613	CC	TT	TT	INTERGENIC		
SNP_37214_A_31418172	NC_021164.1	Ca_Kabuli_Chr05	31418172	GG	AA	AA	INTRON	101489752	WD repeat-containing protein DWA2-like
SNP_37215_A_31420355	NC_021164.1	Ca_Kabuli_Chr05	31420355	CC	TT	TT	URR	101489752	WD repeat-containing protein DWA2-like
SNP_37216_A_31420365	NC_021164.1	Ca_Kabuli_Chr05	31420365	AA	TT	TT	URR	101489752	WD repeat-containing protein DWA2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37217_A_31420366	NC_021164.1	Ca_Kabuli_Chr05	31420366	AA	TT	TT	URR	101489752	WD repeat-containing protein DWA2-like
SNP_37218_A_31420627	NC_021164.1	Ca_Kabuli_Chr05	31420627	AA	TT	TT	URR	101489752	WD repeat-containing protein DWA2-like
SNP_37219_A_31421696	NC_021164.1	Ca_Kabuli_Chr05	31421696	TT	CC	CC	URR	101489752	WD repeat-containing protein DWA2-like
SNP_37220_A_31421697	NC_021164.1	Ca_Kabuli_Chr05	31421697	CC	TT	TT	URR	101489752	WD repeat-containing protein DWA2-like
SNP_37222_A_31425944	NC_021164.1	Ca_Kabuli_Chr05	31425944	TT	CC	CC	INTERGENIC		
SNP_37223_A_31429430	NC_021164.1	Ca_Kabuli_Chr05	31429430	TT	GG	GG	URR	101490069	uncharacterized LOC101490069
SNP_37224_A_31429558	NC_021164.1	Ca_Kabuli_Chr05	31429558	CC	TT	TT	URR	101490401	uncharacterized LOC101490401
SNP_37225_A_31429601	NC_021164.1	Ca_Kabuli_Chr05	31429601	GG	AA	AA	URR	101490401	uncharacterized LOC101490401
SNP_37226_A_31429603	NC_021164.1	Ca_Kabuli_Chr05	31429603	TT	AA	AA	URR	101490401	uncharacterized LOC101490401
SNP_37227_A_31429612	NC_021164.1	Ca_Kabuli_Chr05	31429612	GG	AA	AA	URR	101490401	uncharacterized LOC101490401
SNP_37228_A_31429638	NC_021164.1	Ca_Kabuli_Chr05	31429638	AA	CC	CC	URR	101490401	uncharacterized LOC101490401
SNP_37229_A_31434913	NC_021164.1	Ca_Kabuli_Chr05	31434913	CC	GG	GG	INTERGENIC		
SNP_37230_A_31434937	NC_021164.1	Ca_Kabuli_Chr05	31434937	CC	TT	TT	INTERGENIC		
SNP_37231_A_31435010	NC_021164.1	Ca_Kabuli_Chr05	31435010	GG	AA	AA	INTERGENIC		
SNP_37232_A_31435023	NC_021164.1	Ca_Kabuli_Chr05	31435023	AA	GG	GG	INTERGENIC		
SNP_37233_A_31435077	NC_021164.1	Ca_Kabuli_Chr05	31435077	AA	GG	GG	INTERGENIC		
SNP_37234_A_31435094	NC_021164.1	Ca_Kabuli_Chr05	31435094	CC	TT	TT	INTERGENIC		
SNP_37236_A_31435229	NC_021164.1	Ca_Kabuli_Chr05	31435229	TT	CC	CC	INTERGENIC		
SNP_37237_A_31435419	NC_021164.1	Ca_Kabuli_Chr05	31435419	TT	CC	CC	INTERGENIC		
SNP_37238_A_31435426	NC_021164.1	Ca_Kabuli_Chr05	31435426	CC	TT	TT	INTERGENIC		
SNP_37239_A_31435430	NC_021164.1	Ca_Kabuli_Chr05	31435430	CC	TT	TT	INTERGENIC		
SNP_37240_A_31436584	NC_021164.1	Ca_Kabuli_Chr05	31436584	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_37241_A_31436634	NC_021164.1	Ca_Kabuli_Chr05	31436634	CC	AA	AA	INTERGENIC			
SNP_37242_A_31437011	NC_021164.1	Ca_Kabuli_Chr05	31437011	CC	TT	TT	INTERGENIC			
SNP_37243_A_31440235	NC_021164.1	Ca_Kabuli_Chr05	31440235	GG	AA	AA	INTERGENIC			
SNP_37244_A_31440365	NC_021164.1	Ca_Kabuli_Chr05	31440365	CC	AA	AA	INTERGENIC			
SNP_37245_A_31440395	NC_021164.1	Ca_Kabuli_Chr05	31440395	CC	GG	GG	INTERGENIC			
SNP_37246_A_31440578	NC_021164.1	Ca_Kabuli_Chr05	31440578	GG	AA	AA	INTERGENIC			
SNP_37247_A_31440793	NC_021164.1	Ca_Kabuli_Chr05	31440793	GG	CC	CC	INTERGENIC			
SNP_37248_A_31440876	NC_021164.1	Ca_Kabuli_Chr05	31440876	TT	AA	AA	INTERGENIC			
SNP_37249_A_31440923	NC_021164.1	Ca_Kabuli_Chr05	31440923	CC	GG	GG	INTERGENIC			
SNP_37250_A_31440932	NC_021164.1	Ca_Kabuli_Chr05	31440932	TT	CC	CC	INTERGENIC			
SNP_37251_A_31440959	NC_021164.1	Ca_Kabuli_Chr05	31440959	GG	TT	TT	INTERGENIC			
SNP_37252_A_31440962	NC_021164.1	Ca_Kabuli_Chr05	31440962	AA	TT	TT	INTERGENIC			
SNP_37253_A_31440974	NC_021164.1	Ca_Kabuli_Chr05	31440974	GG	TT	TT	INTERGENIC			
SNP_37254_A_31440989	NC_021164.1	Ca_Kabuli_Chr05	31440989	TT	AA	AA	INTERGENIC			
SNP_37255_A_31441007	NC_021164.1	Ca_Kabuli_Chr05	31441007	AA	GG	GG	INTERGENIC			
SNP_37256_A_31441104	NC_021164.1	Ca_Kabuli_Chr05	31441104	GG	CC	CC	INTERGENIC			
SNP_37257_A_31441114	NC_021164.1	Ca_Kabuli_Chr05	31441114	AA	TT	TT	INTERGENIC			
SNP_37258_A_31441143	NC_021164.1	Ca_Kabuli_Chr05	31441143	AA	GG	GG	INTERGENIC			
SNP_37259_A_31441171	NC_021164.1	Ca_Kabuli_Chr05	31441171	GG	TT	TT	INTERGENIC			
SNP_37260_A_31441215	NC_021164.1	Ca_Kabuli_Chr05	31441215	TT	AA	AA	INTERGENIC			
SNP_37261_A_31442393	NC_021164.1	Ca_Kabuli_Chr05	31442393	GG	AA	AA	INTERGENIC			
SNP_37262_A_31442777	NC_021164.1	Ca_Kabuli_Chr05	31442777	AA	TT	TT	INTERGENIC			

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SNP_37263_A_31446136	NC_021164.1	Ca_Kabuli_Chr05	31446136	GG	AA	AA	INTERGENIC		
SNP_37264_A_31451854	NC_021164.1	Ca_Kabuli_Chr05	31451854	CC	AA	AA	INTERGENIC		
SNP_37265_A_31451939	NC_021164.1	Ca_Kabuli_Chr05	31451939	GG	AA	AA	INTERGENIC		
SNP_37266_A_31455373	NC_021164.1	Ca_Kabuli_Chr05	31455373	GG	TT	TT	INTERGENIC		
SNP_37267_A_31456559	NC_021164.1	Ca_Kabuli_Chr05	31456559	GG	TT	TT	INTERGENIC		
SNP_37268_A_31456663	NC_021164.1	Ca_Kabuli_Chr05	31456663	TT	GG	GG	INTERGENIC		
SNP_37269_A_31457752	NC_021164.1	Ca_Kabuli_Chr05	31457752	AA	GG	GG	INTERGENIC		
SNP_37270_A_31457753	NC_021164.1	Ca_Kabuli_Chr05	31457753	AA	CC	CC	INTERGENIC		
SNP_37271_A_31457771	NC_021164.1	Ca_Kabuli_Chr05	31457771	CC	TT	TT	INTERGENIC		
SNP_37272_A_31457950	NC_021164.1	Ca_Kabuli_Chr05	31457950	CC	TT	TT	DRR	101490725	uncharacterized LOC101490725
SNP_37273_A_31457970	NC_021164.1	Ca_Kabuli_Chr05	31457970	CC	AA	AA	DRR	101490725	uncharacterized LOC101490725
SNP_37274_A_31458033	NC_021164.1	Ca_Kabuli_Chr05	31458033	CC	GG	GG	DRR	101490725	uncharacterized LOC101490725
SNP_37275_A_31458038	NC_021164.1	Ca_Kabuli_Chr05	31458038	CC	AA	AA	DRR	101490725	uncharacterized LOC101490725
SNP_37276_A_31459557	NC_021164.1	Ca_Kabuli_Chr05	31459557	TT	CC	CC	SYNONYMOUS_CODING	101490725	uncharacterized LOC101490725
SNP_37277_A_31460408	NC_021164.1	Ca_Kabuli_Chr05	31460408	GG	CC	CC	URR	101490725	uncharacterized LOC101490725
SNP_37278_A_31463009	NC_021164.1	Ca_Kabuli_Chr05	31463009	AA	GG	GG	INTERGENIC		
SNP_37279_A_31471084	NC_021164.1	Ca_Kabuli_Chr05	31471084	TT	GG	GG	DRR	101491047	uncharacterized LOC101491047
SNP_37280_A_31474797	NC_021164.1	Ca_Kabuli_Chr05	31474797	AA	GG	GG	INTERGENIC		
SNP_37281_A_31474922	NC_021164.1	Ca_Kabuli_Chr05	31474922	GG	TT	TT	INTERGENIC		
SNP_37282_A_31475720	NC_021164.1	Ca_Kabuli_Chr05	31475720	AA	TT	TT	INTERGENIC		
SNP_37284_A_31482238	NC_021164.1	Ca_Kabuli_Chr05	31482238	GG	AA	AA	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37285_A_31482242	NC_021164.1	Ca_Kabuli_Chr05	31482242	TT	CC	CC	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic

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SNP_37286_A_31482536	NC_021164.1	Ca_Kabuli_Chr05	31482536	AA	GG	GG	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37287_A_31483245	NC_021164.1	Ca_Kabuli_Chr05	31483245	AA	TT	TT	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37288_A_31483465	NC_021164.1	Ca_Kabuli_Chr05	31483465	CC	TT	TT	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37289_A_31483466	NC_021164.1	Ca_Kabuli_Chr05	31483466	GG	AA	AA	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37290_A_31483475	NC_021164.1	Ca_Kabuli_Chr05	31483475	AA	GG	GG	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37291_A_31483767	NC_021164.1	Ca_Kabuli_Chr05	31483767	GG	AA	AA	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37292_A_31483803	NC_021164.1	Ca_Kabuli_Chr05	31483803	GG	AA	AA	URR	101491362	ATP-dependent zinc metalloprotease FTSH, chloroplastic
SNP_37293_A_31487315	NC_021164.1	Ca_Kabuli_Chr05	31487315	TT	AA	AA	DRR	101491992	lysine histidine transporter-like 8
SNP_37294_A_31489240	NC_021164.1	Ca_Kabuli_Chr05	31489240	CC	TT	TT	INTERGENIC		
SNP_37295_A_31494807	NC_021164.1	Ca_Kabuli_Chr05	31494807	CC	GG	GG	URR	101491681	uncharacterized LOC101491681
SNP_37296_A_31495607	NC_021164.1	Ca_Kabuli_Chr05	31495607	CC	AA	AA	URR	101491681	uncharacterized LOC101491681
SNP_37297_A_31498359	NC_021164.1	Ca_Kabuli_Chr05	31498359	AA	CC	CC	URR	101492657	uncharacterized LOC101492657
SNP_37298_A_31499634	NC_021164.1	Ca_Kabuli_Chr05	31499634	AA	TT	TT	URR	101492657	uncharacterized LOC101492657
SNP_37299_A_31501302	NC_021164.1	Ca_Kabuli_Chr05	31501302	AA	CC	CC	INTERGENIC		
SNP_37300_A_31506208	NC_021164.1	Ca_Kabuli_Chr05	31506208	CC	TT	TT	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37301_A_31506420	NC_021164.1	Ca_Kabuli_Chr05	31506420	GG	AA	AA	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37302_A_31506424	NC_021164.1	Ca_Kabuli_Chr05	31506424	TT	GG	GG	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37303_A_31506430	NC_021164.1	Ca_Kabuli_Chr05	31506430	AA	GG	GG	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37304_A_31508335	NC_021164.1	Ca_Kabuli_Chr05	31508335	GG	TT	TT	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37305_A_31508374	NC_021164.1	Ca_Kabuli_Chr05	31508374	TT	CC	CC	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37306_A_31508702	NC_021164.1	Ca_Kabuli_Chr05	31508702	TT	GG	GG	INTRON	101492328	L-ascorbate oxidase homolog
SNP_37307_A_31515589	NC_021164.1	Ca_Kabuli_Chr05	31515589	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_37308_A_31515847	NC_021164.1	Ca_Kabuli_Chr05	31515847	TT	CC	CC	INTERGENIC			
SNP_37310_A_31531880	NC_021164.1	Ca_Kabuli_Chr05	31531880	AA	CC	CC	INTERGENIC			
SNP_37311_A_31531909	NC_021164.1	Ca_Kabuli_Chr05	31531909	TT	CC	CC	INTERGENIC			
SNP_37312_A_31532158	NC_021164.1	Ca_Kabuli_Chr05	31532158	AA	TT	TT	INTERGENIC			
SNP_37313_A_31532228	NC_021164.1	Ca_Kabuli_Chr05	31532228	AA	GG	GG	INTERGENIC			
SNP_37315_A_31533725	NC_021164.1	Ca_Kabuli_Chr05	31533725	CC	GG	GG	INTERGENIC			
SNP_37316_A_31538949	NC_021164.1	Ca_Kabuli_Chr05	31538949	GG	CC	CC	INTERGENIC			
SNP_37317_A_31538968	NC_021164.1	Ca_Kabuli_Chr05	31538968	TT	AA	AA	INTERGENIC			
SNP_37318_A_31539311	NC_021164.1	Ca_Kabuli_Chr05	31539311	GG	AA	AA	INTERGENIC			
SNP_37319_A_31539329	NC_021164.1	Ca_Kabuli_Chr05	31539329	GG	TT	TT	INTERGENIC			
SNP_37320_A_31539357	NC_021164.1	Ca_Kabuli_Chr05	31539357	TT	CC	CC	INTERGENIC			
SNP_37322_A_31559057	NC_021164.1	Ca_Kabuli_Chr05	31559057	CC	AA	AA	INTERGENIC			
SNP_37323_A_31559060	NC_021164.1	Ca_Kabuli_Chr05	31559060	GG	AA	AA	INTERGENIC			
SNP_37324_A_31559071	NC_021164.1	Ca_Kabuli_Chr05	31559071	TT	AA	AA	INTERGENIC			
SNP_37325_A_31559139	NC_021164.1	Ca_Kabuli_Chr05	31559139	TT	CC	CC	INTERGENIC			
SNP_37326_A_31559141	NC_021164.1	Ca_Kabuli_Chr05	31559141	AA	CC	CC	INTERGENIC			
SNP_37327_A_31560896	NC_021164.1	Ca_Kabuli_Chr05	31560896	TT	CC	CC	INTERGENIC			
SNP_37328_A_31561317	NC_021164.1	Ca_Kabuli_Chr05	31561317	TT	CC	CC	INTERGENIC			
SNP_37329_A_31561601	NC_021164.1	Ca_Kabuli_Chr05	31561601	TT	CC	CC	INTERGENIC			
SNP_37330_A_31561610	NC_021164.1	Ca_Kabuli_Chr05	31561610	CC	AA	AA	INTERGENIC			
SNP_37331_A_31561612	NC_021164.1	Ca_Kabuli_Chr05	31561612	AA	CC	CC	INTERGENIC			
SNP_37332_A_31570610	NC_021164.1	Ca_Kabuli_Chr05	31570610	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37333_A_31584253	NC_021164.1	Ca_Kabuli_Chr05	31584253	GG	AA	AA	URR	101494596	phospholipase D delta-like
SNP_37334_A_31585599	NC_021164.1	Ca_Kabuli_Chr05	31585599	CC	TT	TT	DRR	101495462	hippocampus abundant transcript-like protein 1
SNP_37335_A_31585622	NC_021164.1	Ca_Kabuli_Chr05	31585622	TT	CC	CC	DRR	101495462	hippocampus abundant transcript-like protein 1
SNP_37336_A_31585628	NC_021164.1	Ca_Kabuli_Chr05	31585628	CC	GG	GG	DRR	101495462	hippocampus abundant transcript-like protein 1
SNP_37338_A_31585806	NC_021164.1	Ca_Kabuli_Chr05	31585806	AA	GG	GG	DRR	101495462	hippocampus abundant transcript-like protein 1
SNP_37339_A_31586241	NC_021164.1	Ca_Kabuli_Chr05	31586241	GG	AA	AA	DRR	101495462	hippocampus abundant transcript-like protein 1
SNP_37340_A_31587139	NC_021164.1	Ca_Kabuli_Chr05	31587139	CC	AA	AA	INTERGENIC		
SNP_37341_A_31587976	NC_021164.1	Ca_Kabuli_Chr05	31587976	AA	GG	GG	INTRON	101495462	hippocampus abundant transcript-like protein 1
SNP_37342_A_31595258	NC_021164.1	Ca_Kabuli_Chr05	31595258	AA	GG	GG	INTRON	101495462	hippocampus abundant transcript-like protein 1
SNP_37343_A_31595315	NC_021164.1	Ca_Kabuli_Chr05	31595315	TT	GG	GG	INTRON	101495462	hippocampus abundant transcript-like protein 1
SNP_37344_A_31596286	NC_021164.1	Ca_Kabuli_Chr05	31596286	AA	TT	TT	START_LOST	id107289	Unknown function
SNP_37345_A_31596287	NC_021164.1	Ca_Kabuli_Chr05	31596287	AA	CC	CC	URR	101495462	hippocampus abundant transcript-like protein 1
SNP_37346_A_31597044	NC_021164.1	Ca_Kabuli_Chr05	31597044	AA	GG	GG	URR	101495462	hippocampus abundant transcript-like protein 1
SNP_37347_A_31597385	NC_021164.1	Ca_Kabuli_Chr05	31597385	GG	AA	AA	URR	101495462	hippocampus abundant transcript-like protein 1
SNP_37348_A_31597389	NC_021164.1	Ca_Kabuli_Chr05	31597389	CC	GG	GG	URR	101495462	hippocampus abundant transcript-like protein 1
SNP_37349_A_31599474	NC_021164.1	Ca_Kabuli_Chr05	31599474	GG	AA	AA	INTERGENIC		
SNP_37350_A_31599846	NC_021164.1	Ca_Kabuli_Chr05	31599846	GG	AA	AA	INTERGENIC		
SNP_37351_A_31600019	NC_021164.1	Ca_Kabuli_Chr05	31600019	CC	GG	GG	INTERGENIC		
SNP_37352_A_31604326	NC_021164.1	Ca_Kabuli_Chr05	31604326	TT	CC	CC	INTERGENIC		
SNP_37353_A_31604368	NC_021164.1	Ca_Kabuli_Chr05	31604368	TT	CC	CC	INTERGENIC		
SNP_37354_A_31604613	NC_021164.1	Ca_Kabuli_Chr05	31604613	GG	AA	AA	DRR	101496973	24-methylenesterol C-methyltransferase 2
SNP_37355_A_31604633	NC_021164.1	Ca_Kabuli_Chr05	31604633	TT	GG	GG	DRR	101496973	24-methylenesterol C-methyltransferase 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37356_A_31606850	NC_021164.1	Ca_Kabuli_Chr05	31606850	TT	CC	CC	INTERGENIC		
SNP_37357_A_31606851	NC_021164.1	Ca_Kabuli_Chr05	31606851	CC	TT	TT	INTERGENIC		
SNP_37359_A_31609924	NC_021164.1	Ca_Kabuli_Chr05	31609924	CC	GG	GG	DRR	101497303	uncharacterized protein At1g76070-like
SNP_37360_A_31609992	NC_021164.1	Ca_Kabuli_Chr05	31609992	TT	AA	AA	DRR	101497303	uncharacterized protein At1g76070-like
SNP_37361_A_31609994	NC_021164.1	Ca_Kabuli_Chr05	31609994	TT	CC	CC	DRR	101497303	uncharacterized protein At1g76070-like
SNP_37362_A_31610378	NC_021164.1	Ca_Kabuli_Chr05	31610378	TT	AA	AA	DRR	101497303	uncharacterized protein At1g76070-like
SNP_37363_A_31610685	NC_021164.1	Ca_Kabuli_Chr05	31610685	TT	CC	CC	INTERGENIC		
SNP_37365_A_31619486	NC_021164.1	Ca_Kabuli_Chr05	31619486	GG	AA	AA	INTERGENIC		
SNP_37367_A_31623379	NC_021164.1	Ca_Kabuli_Chr05	31623379	AA	TT	TT	INTRON	101497954	proline-tRNA ligase-like
SNP_37368_A_31623687	NC_021164.1	Ca_Kabuli_Chr05	31623687	CC	AA	AA	NON_SYNONYMOUS_CODING	101497954	proline-tRNA ligase-like
SNP_37369_A_31626362	NC_021164.1	Ca_Kabuli_Chr05	31626362	GG	AA	AA	INTRON	101497954	proline-tRNA ligase-like
SNP_37370_A_31626368	NC_021164.1	Ca_Kabuli_Chr05	31626368	TT	AA	AA	INTRON	101497954	proline-tRNA ligase-like
SNP_37371_A_31630316	NC_021164.1	Ca_Kabuli_Chr05	31630316	CC	TT	TT	INTERGENIC		
SNP_37372_A_31630473	NC_021164.1	Ca_Kabuli_Chr05	31630473	CC	AA	AA	INTERGENIC		
SNP_37373_A_31630588	NC_021164.1	Ca_Kabuli_Chr05	31630588	CC	TT	TT	INTERGENIC		
SNP_37374_A_31632641	NC_021164.1	Ca_Kabuli_Chr05	31632641	CC	TT	TT	INTERGENIC		
SNP_37375_A_31632681	NC_021164.1	Ca_Kabuli_Chr05	31632681	GG	CC	CC	INTERGENIC		
SNP_37376_A_31632857	NC_021164.1	Ca_Kabuli_Chr05	31632857	CC	GG	GG	INTERGENIC		
SNP_37377_A_31633027	NC_021164.1	Ca_Kabuli_Chr05	31633027	TT	CC	CC	INTERGENIC		
SNP_37378_A_31633867	NC_021164.1	Ca_Kabuli_Chr05	31633867	GG	CC	CC	INTERGENIC		
SNP_37379_A_31636515	NC_021164.1	Ca_Kabuli_Chr05	31636515	AA	TT	TT	INTERGENIC		
SNP_37380_A_31637505	NC_021164.1	Ca_Kabuli_Chr05	31637505	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37381_A_31639410	NC_021164.1	Ca_Kabuli_Chr05	31639410	GG	AA	AA	INTERGENIC		
SNP_37382_A_31639464	NC_021164.1	Ca_Kabuli_Chr05	31639464	CC	GG	GG	INTERGENIC		
SNP_37383_A_31639793	NC_021164.1	Ca_Kabuli_Chr05	31639793	AA	GG	GG	INTERGENIC		
SNP_37384_A_31639845	NC_021164.1	Ca_Kabuli_Chr05	31639845	TT	CC	CC	INTERGENIC		
SNP_37385_A_31649079	NC_021164.1	Ca_Kabuli_Chr05	31649079	TT	CC	CC	DRR	101499072	RNA pseudouridine synthase 2, chloroplastic
SNP_37386_A_31649103	NC_021164.1	Ca_Kabuli_Chr05	31649103	GG	AA	AA	DRR	101499072	RNA pseudouridine synthase 2, chloroplastic
SNP_37387_A_31650214	NC_021164.1	Ca_Kabuli_Chr05	31650214	CC	AA	AA	INTERGENIC		
SNP_37388_A_31650875	NC_021164.1	Ca_Kabuli_Chr05	31650875	GG	TT	TT	INTERGENIC		
SNP_37389_A_31651009	NC_021164.1	Ca_Kabuli_Chr05	31651009	TT	CC	CC	INTERGENIC		
SNP_37390_A_31656163	NC_021164.1	Ca_Kabuli_Chr05	31656163	TT	GG	GG	URR	101499072	RNA pseudouridine synthase 2, chloroplastic
SNP_37391_A_31656544	NC_021164.1	Ca_Kabuli_Chr05	31656544	GG	AA	AA	INTRON	101498505	probable nucleoredoxin 2
SNP_37392_A_31656649	NC_021164.1	Ca_Kabuli_Chr05	31656649	GG	AA	AA	INTRON	101498505	probable nucleoredoxin 2
SNP_37393_A_31658120	NC_021164.1	Ca_Kabuli_Chr05	31658120	GG	AA	AA	INTRON	101498505	probable nucleoredoxin 2
SNP_37394_A_31658157	NC_021164.1	Ca_Kabuli_Chr05	31658157	AA	GG	GG	INTRON	101498505	probable nucleoredoxin 2
SNP_37395_A_31659775	NC_021164.1	Ca_Kabuli_Chr05	31659775	AA	GG	GG	URR	101498505	probable nucleoredoxin 2
SNP_37396_A_31659978	NC_021164.1	Ca_Kabuli_Chr05	31659978	TT	CC	CC	URR	101498505	probable nucleoredoxin 2
SNP_37397_A_31667271	NC_021164.1	Ca_Kabuli_Chr05	31667271	AA	TT	TT	URR	101499386	E3 ubiquitin-protein ligase ATL23-like
SNP_37398_A_31669911	NC_021164.1	Ca_Kabuli_Chr05	31669911	TT	AA	AA	INTERGENIC		
SNP_37399_A_31670578	NC_021164.1	Ca_Kabuli_Chr05	31670578	AA	CC	CC	INTERGENIC		
SNP_37400_A_31671932	NC_021164.1	Ca_Kabuli_Chr05	31671932	AA	TT	TT	DRR	101499693	probable 26S proteasome non-ATPase regulatory subunit 3
SNP_37401_A_31672112	NC_021164.1	Ca_Kabuli_Chr05	31672112	GG	AA	AA	DRR	101499693	probable 26S proteasome non-ATPase regulatory subunit 3
SNP_37402_A_31672142	NC_021164.1	Ca_Kabuli_Chr05	31672142	CC	TT	TT	DRR	101499693	probable 26S proteasome non-ATPase regulatory subunit 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37403_A_31676371	NC_021164.1	Ca_Kabuli_Chr05	31676371	GG	AA	AA	SYNONYMOUS_CODING	101499693	probable 26S proteasome non-ATPase regulatory subunit 3
SNP_37404_A_31680020	NC_021164.1	Ca_Kabuli_Chr05	31680020	AA	TT	TT	INTERGENIC		
SNP_37405_A_31681520	NC_021164.1	Ca_Kabuli_Chr05	31681520	GG	AA	AA	INTERGENIC		
SNP_37406_A_31681527	NC_021164.1	Ca_Kabuli_Chr05	31681527	GG	AA	AA	INTERGENIC		
SNP_37407_A_31682635	NC_021164.1	Ca_Kabuli_Chr05	31682635	GG	AA	AA	DRR	101500344	UPF0496 protein At1g20180
SNP_37408_A_31682636	NC_021164.1	Ca_Kabuli_Chr05	31682636	GG	AA	AA	DRR	101500344	UPF0496 protein At1g20180
SNP_37409_A_31684959	NC_021164.1	Ca_Kabuli_Chr05	31684959	AA	GG	GG	URR	101500344	UPF0496 protein At1g20180
SNP_37410_A_31685235	NC_021164.1	Ca_Kabuli_Chr05	31685235	CC	TT	TT	URR	101500344	UPF0496 protein At1g20180
SNP_37411_A_31685584	NC_021164.1	Ca_Kabuli_Chr05	31685584	CC	AA	AA	URR	101500344	UPF0496 protein At1g20180
SNP_37412_A_31685764	NC_021164.1	Ca_Kabuli_Chr05	31685764	GG	CC	CC	URR	101500344	UPF0496 protein At1g20180
SNP_37413_A_31692219	NC_021164.1	Ca_Kabuli_Chr05	31692219	GG	AA	AA	URR	101500656	la-related protein 1C-like
SNP_37414_A_31692226	NC_021164.1	Ca_Kabuli_Chr05	31692226	TT	GG	GG	URR	101500656	la-related protein 1C-like
SNP_37415_A_31692537	NC_021164.1	Ca_Kabuli_Chr05	31692537	GG	AA	AA	URR	101500656	la-related protein 1C-like
SNP_37417_A_31694705	NC_021164.1	Ca_Kabuli_Chr05	31694705	AA	GG	GG	INTERGENIC		
SNP_37418_A_31699320	NC_021164.1	Ca_Kabuli_Chr05	31699320	CC	TT	TT	URR	101500970	CO(2)-response secreted protease-like
SNP_37419_A_31699628	NC_021164.1	Ca_Kabuli_Chr05	31699628	AA	GG	GG	INTERGENIC		
SNP_37420_A_31701199	NC_021164.1	Ca_Kabuli_Chr05	31701199	CC	TT	TT	INTERGENIC		
SNP_37421_A_31705110	NC_021164.1	Ca_Kabuli_Chr05	31705110	AA	CC	CC	INTERGENIC		
SNP_37422_A_31705167	NC_021164.1	Ca_Kabuli_Chr05	31705167	TT	GG	GG	INTERGENIC		
SNP_37423_A_31707111	NC_021164.1	Ca_Kabuli_Chr05	31707111	AA	TT	TT	INTERGENIC		
SNP_37424_A_31708091	NC_021164.1	Ca_Kabuli_Chr05	31708091	CC	TT	TT	INTERGENIC		
SNP_37426_A_31713563	NC_021164.1	Ca_Kabuli_Chr05	31713563	CC	TT	TT	DRR	101502248	GDSL esterase/lipase At3g14820-like

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SNP_37427_A_31713570	NC_021164.1	Ca_Kabuli_Chr05	31713570	AA	GG	GG	DRR	101502248	GDSL esterase/lipase At3g14820-like
SNP_37428_A_31714863	NC_021164.1	Ca_Kabuli_Chr05	31714863	AA	GG	GG	URR	101501605	uncharacterized LOC101501605
SNP_37429_A_31714877	NC_021164.1	Ca_Kabuli_Chr05	31714877	CC	GG	GG	URR	101501605	uncharacterized LOC101501605
SNP_37431_A_31716075	NC_021164.1	Ca_Kabuli_Chr05	31716075	TT	CC	CC	INTRON	101502248	GDSL esterase/lipase At3g14820-like
SNP_37432_A_31717906	NC_021164.1	Ca_Kabuli_Chr05	31717906	CC	TT	TT	INTRON	101502248	GDSL esterase/lipase At3g14820-like
SNP_37433_A_31717919	NC_021164.1	Ca_Kabuli_Chr05	31717919	TT	CC	CC	INTRON	101502248	GDSL esterase/lipase At3g14820-like
SNP_37434_A_31719545	NC_021164.1	Ca_Kabuli_Chr05	31719545	GG	AA	AA	INTERGENIC		
SNP_37435_A_31720072	NC_021164.1	Ca_Kabuli_Chr05	31720072	AA	TT	TT	INTERGENIC		
SNP_37436_A_31720073	NC_021164.1	Ca_Kabuli_Chr05	31720073	CC	TT	TT	INTERGENIC		
SNP_37437_A_31721088	NC_021164.1	Ca_Kabuli_Chr05	31721088	CC	AA	AA	INTERGENIC		
SNP_37438_A_31722379	NC_021164.1	Ca_Kabuli_Chr05	31722379	CC	GG	GG	DRR	101501917	pentatricopeptide repeat-containing protein At3g12770-like
SNP_37439_A_31722604	NC_021164.1	Ca_Kabuli_Chr05	31722604	CC	TT	TT	DRR	101501917	pentatricopeptide repeat-containing protein At3g12770-like
SNP_37440_A_31722866	NC_021164.1	Ca_Kabuli_Chr05	31722866	CC	AA	AA	DRR	101501917	pentatricopeptide repeat-containing protein At3g12770-like
SNP_37441_A_31722897	NC_021164.1	Ca_Kabuli_Chr05	31722897	TT	AA	AA	DRR	101501917	pentatricopeptide repeat-containing protein At3g12770-like
SNP_37442_A_31728118	NC_021164.1	Ca_Kabuli_Chr05	31728118	TT	CC	CC	INTRON	101502248	GDSL esterase/lipase At3g14820-like
SNP_37443_A_31728122	NC_021164.1	Ca_Kabuli_Chr05	31728122	TT	AA	AA	INTRON	101502248	GDSL esterase/lipase At3g14820-like
SNP_37445_A_31733922	NC_021164.1	Ca_Kabuli_Chr05	31733922	TT	CC	CC	URR	101502248	GDSL esterase/lipase At3g14820-like
SNP_37446_A_31735773	NC_021164.1	Ca_Kabuli_Chr05	31735773	TT	CC	CC	INTERGENIC		
SNP_37447_A_31735809	NC_021164.1	Ca_Kabuli_Chr05	31735809	CC	TT	TT	INTERGENIC		
SNP_37448_A_31746597	NC_021164.1	Ca_Kabuli_Chr05	31746597	GG	AA	AA	URR	101502880	uncharacterized LOC101502880
SNP_37449_A_31746612	NC_021164.1	Ca_Kabuli_Chr05	31746612	CC	AA	AA	URR	101502880	uncharacterized LOC101502880
SNP_37450_A_31746625	NC_021164.1	Ca_Kabuli_Chr05	31746625	CC	TT	TT	URR	101502880	uncharacterized LOC101502880

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37451_A_31746626	NC_021164.1	Ca_Kabuli_Chr05	31746626	AA	GG	GG	URR	101502880	uncharacterized LOC101502880
SNP_37455_A_31764513	NC_021164.1	Ca_Kabuli_Chr05	31764513	AA	GG	GG	URR	101503743	uncharacterized LOC101503743
SNP_37456_A_31765515	NC_021164.1	Ca_Kabuli_Chr05	31765515	CC	TT	TT	URR	101503743	uncharacterized LOC101503743
SNP_37457_A_31768372	NC_021164.1	Ca_Kabuli_Chr05	31768372	GG	AA	AA	INTERGENIC		
SNP_37458_A_31768418	NC_021164.1	Ca_Kabuli_Chr05	31768418	AA	GG	GG	INTERGENIC		
SNP_37459_A_31768759	NC_021164.1	Ca_Kabuli_Chr05	31768759	TT	AA	AA	INTERGENIC		
SNP_37460_A_31771485	NC_021164.1	Ca_Kabuli_Chr05	31771485	CC	TT	TT	DRR	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37461_A_31771647	NC_021164.1	Ca_Kabuli_Chr05	31771647	GG	AA	AA	DRR	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37462_A_31771651	NC_021164.1	Ca_Kabuli_Chr05	31771651	AA	GG	GG	DRR	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37464_A_31774608	NC_021164.1	Ca_Kabuli_Chr05	31774608	CC	TT	TT	INTRON	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37465_A_31779791	NC_021164.1	Ca_Kabuli_Chr05	31779791	TT	CC	CC	NON_SYNONYMOUS_CODING	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37466_A_31779909	NC_021164.1	Ca_Kabuli_Chr05	31779909	AA	CC	CC	INTRON	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37467_A_31782024	NC_021164.1	Ca_Kabuli_Chr05	31782024	TT	AA	AA	INTRON	101504071	armadillo repeat-containing kinesin-like protein 1
SNP_37469_A_31788691	NC_021164.1	Ca_Kabuli_Chr05	31788691	CC	AA	AA	URR	101504818	uncharacterized LOC101504818
SNP_37470_A_31790416	NC_021164.1	Ca_Kabuli_Chr05	31790416	AA	TT	TT	DRR	101410550	transfer RNA leucine (anticodon CAA)
SNP_37471_A_31790744	NC_021164.1	Ca_Kabuli_Chr05	31790744	AA	CC	CC	DRR	101410550	transfer RNA leucine (anticodon CAA)
SNP_37472_A_31790843	NC_021164.1	Ca_Kabuli_Chr05	31790843	TT	CC	CC	DRR	101410550	transfer RNA leucine (anticodon CAA)
SNP_37473_A_31792995	NC_021164.1	Ca_Kabuli_Chr05	31792995	TT	CC	CC	DRR	101505131	thaumatin-like protein 1b
SNP_37474_A_31795364	NC_021164.1	Ca_Kabuli_Chr05	31795364	GG	AA	AA	INTERGENIC		
SNP_37475_A_31798008	NC_021164.1	Ca_Kabuli_Chr05	31798008	TT	CC	CC	URR	101505131	thaumatin-like protein 1b
SNP_37477_A_31798137	NC_021164.1	Ca_Kabuli_Chr05	31798137	TT	CC	CC	URR	101505131	thaumatin-like protein 1b
SNP_37478_A_31800124	NC_021164.1	Ca_Kabuli_Chr05	31800124	CC	GG	GG	INTRON	101505557	uncharacterized LOC101505557

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37479_A_31800149	NC_021164.1	Ca_Kabuli_Chr05	31800149	TT	CC	CC	NON_SYNONYMOUS_CODING	101505557	uncharacterized LOC101505557
SNP_37480_A_31800201	NC_021164.1	Ca_Kabuli_Chr05	31800201	TT	CC	CC	NON_SYNONYMOUS_CODING	101505557	uncharacterized LOC101505557
SNP_37481_A_31800346	NC_021164.1	Ca_Kabuli_Chr05	31800346	GG	AA	AA	INTRON	101505557	uncharacterized LOC101505557
SNP_37482_A_31801560	NC_021164.1	Ca_Kabuli_Chr05	31801560	TT	CC	CC	NON_SYNONYMOUS_CODING	101505557	uncharacterized LOC101505557
SNP_37483_A_31802727	NC_021164.1	Ca_Kabuli_Chr05	31802727	GG	AA	AA	INTRON	101505557	uncharacterized LOC101505557
SNP_37484_A_31803255	NC_021164.1	Ca_Kabuli_Chr05	31803255	TT	GG	GG	SYNONYMOUS_CODING	101505557	uncharacterized LOC101505557
SNP_37485_A_31803619	NC_021164.1	Ca_Kabuli_Chr05	31803619	AA	GG	GG	INTRON	101505557	uncharacterized LOC101505557
SNP_37486_A_31803967	NC_021164.1	Ca_Kabuli_Chr05	31803967	TT	AA	AA	URR	101505557	uncharacterized LOC101505557
SNP_37487_A_31804242	NC_021164.1	Ca_Kabuli_Chr05	31804242	TT	CC	CC	URR	101505557	uncharacterized LOC101505557
SNP_37488_A_31804272	NC_021164.1	Ca_Kabuli_Chr05	31804272	TT	CC	CC	URR	101505557	uncharacterized LOC101505557
SNP_37490_A_31805157	NC_021164.1	Ca_Kabuli_Chr05	31805157	TT	CC	CC	URR	101505557	uncharacterized LOC101505557
SNP_37491_A_31807488	NC_021164.1	Ca_Kabuli_Chr05	31807488	AA	GG	GG	DRR	101506098	tubulin, beta class I
SNP_37492_A_31807537	NC_021164.1	Ca_Kabuli_Chr05	31807537	CC	GG	GG	DRR	101506098	tubulin, beta class I
SNP_37493_A_31807852	NC_021164.1	Ca_Kabuli_Chr05	31807852	CC	TT	TT	DRR	101506098	tubulin, beta class I
SNP_37495_A_31809282	NC_021164.1	Ca_Kabuli_Chr05	31809282	AA	TT	TT	INTRON	101506098	tubulin, beta class I
SNP_37497_A_31812154	NC_021164.1	Ca_Kabuli_Chr05	31812154	CC	GG	GG	URR	101506098	tubulin, beta class I
SNP_37498_A_31815542	NC_021164.1	Ca_Kabuli_Chr05	31815542	AA	GG	GG	DRR	101506427	nucleolar protein 58
SNP_37499_A_31815571	NC_021164.1	Ca_Kabuli_Chr05	31815571	TT	AA	AA	DRR	101506427	nucleolar protein 58
SNP_37500_A_31817821	NC_021164.1	Ca_Kabuli_Chr05	31817821	AA	TT	TT	INTRON	101506427	nucleolar protein 58
SNP_37501_A_31818819	NC_021164.1	Ca_Kabuli_Chr05	31818819	AA	TT	TT	INTRON	101506427	nucleolar protein 58
SNP_37502_A_31819008	NC_021164.1	Ca_Kabuli_Chr05	31819008	AA	CC	CC	INTRON	101506427	nucleolar protein 58
SNP_37503_A_31832682	NC_021164.1	Ca_Kabuli_Chr05	31832682	TT	CC	CC	URR	101507413	putative ER lumen protein-retaining receptor C28H8.4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37504_A_31832944	NC_021164.1	Ca_Kabuli_Chr05	31832944	CC	TT	TT	URR	101507413	putative ER lumen protein-retaining receptor C28H8.4
SNP_37505_A_31834684	NC_021164.1	Ca_Kabuli_Chr05	31834684	CC	TT	TT	INTERGENIC		
SNP_37506_A_31834943	NC_021164.1	Ca_Kabuli_Chr05	31834943	CC	AA	AA	INTERGENIC		
SNP_37508_A_31835218	NC_021164.1	Ca_Kabuli_Chr05	31835218	CC	TT	TT	INTERGENIC		
SNP_37509_A_31839087	NC_021164.1	Ca_Kabuli_Chr05	31839087	TT	CC	CC	INTERGENIC		
SNP_37510_A_31840722	NC_021164.1	Ca_Kabuli_Chr05	31840722	CC	AA	AA	URR	101507723	copper-transporting ATPase RAN1-like
SNP_37512_A_31847683	NC_021164.1	Ca_Kabuli_Chr05	31847683	GG	CC	CC	INTERGENIC		
SNP_37513_A_31853589	NC_021164.1	Ca_Kabuli_Chr05	31853589	TT	CC	CC	INTERGENIC		
SNP_37514_A_31858778	NC_021164.1	Ca_Kabuli_Chr05	31858778	GG	TT	TT	INTERGENIC		
SNP_37515_A_31860291	NC_021164.1	Ca_Kabuli_Chr05	31860291	CC	AA	AA	DRR	101508048	uncharacterized LOC101508048
SNP_37516_A_31860297	NC_021164.1	Ca_Kabuli_Chr05	31860297	CC	AA	AA	DRR	101508048	uncharacterized LOC101508048
SNP_37517_A_31860409	NC_021164.1	Ca_Kabuli_Chr05	31860409	CC	GG	GG	DRR	101508048	uncharacterized LOC101508048
SNP_37518_A_31860668	NC_021164.1	Ca_Kabuli_Chr05	31860668	TT	GG	GG	DRR	101508048	uncharacterized LOC101508048
SNP_37519_A_31860675	NC_021164.1	Ca_Kabuli_Chr05	31860675	AA	CC	CC	DRR	101508048	uncharacterized LOC101508048
SNP_37520_A_31860740	NC_021164.1	Ca_Kabuli_Chr05	31860740	TT	AA	AA	DRR	101508048	uncharacterized LOC101508048
SNP_37521_A_31867692	NC_021164.1	Ca_Kabuli_Chr05	31867692	AA	GG	GG	DRR	101508562	WEB family protein At1g75720
SNP_37523_A_31872893	NC_021164.1	Ca_Kabuli_Chr05	31872893	TT	CC	CC	INTERGENIC		
SNP_37524_A_31874436	NC_021164.1	Ca_Kabuli_Chr05	31874436	AA	CC	CC	INTRON	101508876	transcription factor E2FC
SNP_37525_A_31876300	NC_021164.1	Ca_Kabuli_Chr05	31876300	GG	CC	CC	URR	101508876	transcription factor E2FC
SNP_37526_A_31880411	NC_021164.1	Ca_Kabuli_Chr05	31880411	GG	AA	AA	INTERGENIC		
SNP_37527_A_31882314	NC_021164.1	Ca_Kabuli_Chr05	31882314	AA	GG	GG	INTRON	101509410	putative HVA22-like protein g
SNP_37528_A_31882633	NC_021164.1	Ca_Kabuli_Chr05	31882633	AA	TT	TT	URR	101509410	putative HVA22-like protein g

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37529_A_31883550	NC_021164.1	Ca_Kabuli_Chr05	31883550	TT	AA	AA	URR	101509410	putative HVA22-like protein g
SNP_37531_A_31884212	NC_021164.1	Ca_Kabuli_Chr05	31884212	TT	CC	CC	URR	101509410	putative HVA22-like protein g
SNP_37532_A_31886517	NC_021164.1	Ca_Kabuli_Chr05	31886517	TT	CC	CC	INTERGENIC		
SNP_37533_A_31886540	NC_021164.1	Ca_Kabuli_Chr05	31886540	CC	TT	TT	INTERGENIC		
SNP_37535_A_31886779	NC_021164.1	Ca_Kabuli_Chr05	31886779	AA	CC	CC	INTERGENIC		
SNP_37536_A_31887205	NC_021164.1	Ca_Kabuli_Chr05	31887205	CC	TT	TT	INTERGENIC		
SNP_37537_A_31887975	NC_021164.1	Ca_Kabuli_Chr05	31887975	TT	AA	AA	INTERGENIC		
SNP_37539_A_31897046	NC_021164.1	Ca_Kabuli_Chr05	31897046	CC	GG	GG	INTERGENIC		
SNP_37540_A_31897090	NC_021164.1	Ca_Kabuli_Chr05	31897090	AA	TT	TT	INTERGENIC		
SNP_37541_A_31897970	NC_021164.1	Ca_Kabuli_Chr05	31897970	GG	CC	CC	INTERGENIC		
SNP_37542_A_31898023	NC_021164.1	Ca_Kabuli_Chr05	31898023	AA	TT	TT	INTERGENIC		
SNP_37543_A_31900172	NC_021164.1	Ca_Kabuli_Chr05	31900172	CC	AA	AA	URR	101510058	cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG3-like
SNP_37545_A_31905179	NC_021164.1	Ca_Kabuli_Chr05	31905179	GG	CC	CC	INTERGENIC		
SNP_37546_A_31905645	NC_021164.1	Ca_Kabuli_Chr05	31905645	GG	AA	AA	INTERGENIC		
SNP_37547_A_31905962	NC_021164.1	Ca_Kabuli_Chr05	31905962	TT	CC	CC	INTERGENIC		
SNP_37548_A_31916153	NC_021164.1	Ca_Kabuli_Chr05	31916153	AA	TT	TT	INTERGENIC		
SNP_37549_A_31919438	NC_021164.1	Ca_Kabuli_Chr05	31919438	CC	TT	TT	INTERGENIC		
SNP_37550_A_31922051	NC_021164.1	Ca_Kabuli_Chr05	31922051	CC	GG	GG	INTERGENIC		
SNP_37551_A_31922077	NC_021164.1	Ca_Kabuli_Chr05	31922077	GG	TT	TT	INTERGENIC		
SNP_37552_A_31925427	NC_021164.1	Ca_Kabuli_Chr05	31925427	CC	TT	TT	URR	101510386	auxin-induced protein 15A
SNP_37553_A_31926468	NC_021164.1	Ca_Kabuli_Chr05	31926468	TT	CC	CC	URR	101510386	auxin-induced protein 15A
SNP_37554_A_31926861	NC_021164.1	Ca_Kabuli_Chr05	31926861	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_37555_A_31926889	NC_021164.1	Ca_Kabuli_Chr05	31926889	AA	CC	CC	INTERGENIC			
SNP_37556_A_31926893	NC_021164.1	Ca_Kabuli_Chr05	31926893	GG	AA	AA	INTERGENIC			
SNP_37557_A_31927193	NC_021164.1	Ca_Kabuli_Chr05	31927193	GG	AA	AA	INTERGENIC			
SNP_37558_A_31927723	NC_021164.1	Ca_Kabuli_Chr05	31927723	GG	AA	AA	INTERGENIC			
SNP_37559_A_31928133	NC_021164.1	Ca_Kabuli_Chr05	31928133	GG	AA	AA	INTERGENIC			
SNP_37560_A_31928136	NC_021164.1	Ca_Kabuli_Chr05	31928136	GG	AA	AA	INTERGENIC			
SNP_37561_A_31928149	NC_021164.1	Ca_Kabuli_Chr05	31928149	TT	CC	CC	INTERGENIC			
SNP_37562_A_31928158	NC_021164.1	Ca_Kabuli_Chr05	31928158	TT	CC	CC	INTERGENIC			
SNP_37563_A_31928236	NC_021164.1	Ca_Kabuli_Chr05	31928236	AA	GG	GG	INTERGENIC			
SNP_37564_A_31928581	NC_021164.1	Ca_Kabuli_Chr05	31928581	GG	AA	AA	INTERGENIC			
SNP_37565_A_31928842	NC_021164.1	Ca_Kabuli_Chr05	31928842	GG	CC	CC	INTERGENIC			
SNP_37566_A_31929158	NC_021164.1	Ca_Kabuli_Chr05	31929158	TT	AA	AA	INTERGENIC			
SNP_37567_A_31929841	NC_021164.1	Ca_Kabuli_Chr05	31929841	TT	CC	CC	INTERGENIC			
SNP_37569_A_31938710	NC_021164.1	Ca_Kabuli_Chr05	31938710	AA	CC	CC	URR	101510713	filament-like plant protein 4	
SNP_37571_A_31941383	NC_021164.1	Ca_Kabuli_Chr05	31941383	AA	GG	GG	INTERGENIC			
SNP_37572_A_31942991	NC_021164.1	Ca_Kabuli_Chr05	31942991	CC	TT	TT	INTERGENIC			
SNP_37573_A_31944973	NC_021164.1	Ca_Kabuli_Chr05	31944973	GG	AA	AA	INTERGENIC			
SNP_37574_A_31946938	NC_021164.1	Ca_Kabuli_Chr05	31946938	TT	CC	CC	INTERGENIC			
SNP_37575_A_31947020	NC_021164.1	Ca_Kabuli_Chr05	31947020	AA	GG	GG	INTERGENIC			
SNP_37576_A_31947039	NC_021164.1	Ca_Kabuli_Chr05	31947039	TT	CC	CC	INTERGENIC			
SNP_37577_A_31957558	NC_021164.1	Ca_Kabuli_Chr05	31957558	CC	TT	TT	URR	101511240	protein RCC2 homolog	
SNP_37578_A_31957722	NC_021164.1	Ca_Kabuli_Chr05	31957722	AA	GG	GG	URR	101511240	protein RCC2 homolog	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37579_A_31958962	NC_021164.1	Ca_Kabuli_Chr05	31958962	AA	TT	TT	INTERGENIC		
SNP_37580_A_31958991	NC_021164.1	Ca_Kabuli_Chr05	31958991	TT	CC	CC	INTERGENIC		
SNP_37581_A_31959012	NC_021164.1	Ca_Kabuli_Chr05	31959012	CC	TT	TT	INTERGENIC		
SNP_37582_A_31959310	NC_021164.1	Ca_Kabuli_Chr05	31959310	GG	CC	CC	INTERGENIC		
SNP_37583_A_31959331	NC_021164.1	Ca_Kabuli_Chr05	31959331	GG	AA	AA	INTERGENIC		
SNP_37584_A_31960581	NC_021164.1	Ca_Kabuli_Chr05	31960581	TT	CC	CC	INTERGENIC		
SNP_37585_A_31960582	NC_021164.1	Ca_Kabuli_Chr05	31960582	TT	CC	CC	INTERGENIC		
SNP_37586_A_31960620	NC_021164.1	Ca_Kabuli_Chr05	31960620	TT	CC	CC	INTERGENIC		
SNP_37587_A_31964277	NC_021164.1	Ca_Kabuli_Chr05	31964277	GG	AA	AA	INTERGENIC		
SNP_37588_A_31964321	NC_021164.1	Ca_Kabuli_Chr05	31964321	TT	CC	CC	INTERGENIC		
SNP_37589_A_31964600	NC_021164.1	Ca_Kabuli_Chr05	31964600	CC	GG	GG	INTERGENIC		
SNP_37590_A_31965992	NC_021164.1	Ca_Kabuli_Chr05	31965992	GG	AA	AA	INTERGENIC		
SNP_37591_A_31966895	NC_021164.1	Ca_Kabuli_Chr05	31966895	GG	TT	TT	DRR	101511561	uncharacterized LOC101511561
SNP_37592_A_31966922	NC_021164.1	Ca_Kabuli_Chr05	31966922	CC	AA	AA	DRR	101511561	uncharacterized LOC101511561
SNP_37594_A_31968397	NC_021164.1	Ca_Kabuli_Chr05	31968397	CC	TT	TT	SYNONYMOUS_CODING	101511561	uncharacterized LOC101511561
SNP_37595_A_31970051	NC_021164.1	Ca_Kabuli_Chr05	31970051	AA	TT	TT	URR	101511561	uncharacterized LOC101511561
SNP_37597_A_31972933	NC_021164.1	Ca_Kabuli_Chr05	31972933	GG	AA	AA	INTERGENIC		
SNP_37598_A_31972987	NC_021164.1	Ca_Kabuli_Chr05	31972987	CC	GG	GG	INTERGENIC		
SNP_37599_A_31972993	NC_021164.1	Ca_Kabuli_Chr05	31972993	GG	AA	AA	INTERGENIC		
SNP_37601_A_31974745	NC_021164.1	Ca_Kabuli_Chr05	31974745	TT	CC	CC	INTERGENIC		
SNP_37602_A_31975738	NC_021164.1	Ca_Kabuli_Chr05	31975738	AA	GG	GG	INTERGENIC		
SNP_37603_A_31975772	NC_021164.1	Ca_Kabuli_Chr05	31975772	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37604_A_31975787	NC_021164.1	Ca_Kabuli_Chr05	31975787	GG	AA	AA	INTERGENIC		
SNP_37605_A_31975790	NC_021164.1	Ca_Kabuli_Chr05	31975790	TT	CC	CC	INTERGENIC		
SNP_37606_A_31975796	NC_021164.1	Ca_Kabuli_Chr05	31975796	CC	TT	TT	INTERGENIC		
SNP_37607_A_31975814	NC_021164.1	Ca_Kabuli_Chr05	31975814	TT	CC	CC	INTERGENIC		
SNP_37608_A_31979372	NC_021164.1	Ca_Kabuli_Chr05	31979372	AA	GG	GG	INTERGENIC		
SNP_37609_A_31979405	NC_021164.1	Ca_Kabuli_Chr05	31979405	TT	CC	CC	INTERGENIC		
SNP_37610_A_31979406	NC_021164.1	Ca_Kabuli_Chr05	31979406	AA	GG	GG	INTERGENIC		
SNP_37611_A_31985921	NC_021164.1	Ca_Kabuli_Chr05	31985921	CC	TT	TT	INTRON	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37612_A_31986787	NC_021164.1	Ca_Kabuli_Chr05	31986787	TT	CC	CC	INTRON	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37613_A_31987019	NC_021164.1	Ca_Kabuli_Chr05	31987019	TT	CC	CC	INTRON	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37614_A_31987083	NC_021164.1	Ca_Kabuli_Chr05	31987083	AA	GG	GG	INTRON	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37615_A_31989180	NC_021164.1	Ca_Kabuli_Chr05	31989180	GG	AA	AA	URR	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37616_A_31989467	NC_021164.1	Ca_Kabuli_Chr05	31989467	GG	AA	AA	URR	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37617_A_31989503	NC_021164.1	Ca_Kabuli_Chr05	31989503	TT	CC	CC	URR	101511891	protein DECREASED SIZE EXCLUSION LIMIT 1
SNP_37618_A_31991188	NC_021164.1	Ca_Kabuli_Chr05	31991188	TT	CC	CC	INTERGENIC		
SNP_37619_A_31992715	NC_021164.1	Ca_Kabuli_Chr05	31992715	TT	CC	CC	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37620_A_31994677	NC_021164.1	Ca_Kabuli_Chr05	31994677	TT	AA	AA	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37621_A_31994707	NC_021164.1	Ca_Kabuli_Chr05	31994707	AA	TT	TT	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37622_A_31994794	NC_021164.1	Ca_Kabuli_Chr05	31994794	AA	GG	GG	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37623_A_31994804	NC_021164.1	Ca_Kabuli_Chr05	31994804	CC	TT	TT	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37624_A_31994914	NC_021164.1	Ca_Kabuli_Chr05	31994914	TT	CC	CC	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37625_A_31995588	NC_021164.1	Ca_Kabuli_Chr05	31995588	GG	AA	AA	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37626_A_31995600	NC_021164.1	Ca_Kabuli_Chr05	31995600	TT	CC	CC	INTRON	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37627_A_31997014	NC_021164.1	Ca_Kabuli_Chr05	31997014	AA	TT	TT	URR	101512215	probable 1-acylglycerol-3-phosphate O-acyltransferase
SNP_37629_A_31999621	NC_021164.1	Ca_Kabuli_Chr05	31999621	TT	CC	CC	INTERGENIC		
SNP_37630_A_32001449	NC_021164.1	Ca_Kabuli_Chr05	32001449	GG	AA	AA	INTERGENIC		
SNP_37631_A_32015211	NC_021164.1	Ca_Kabuli_Chr05	32015211	TT	AA	AA	URR	101513064	kinesin-like protein NACK1
SNP_37632_A_32015282	NC_021164.1	Ca_Kabuli_Chr05	32015282	TT	CC	CC	URR	101513064	kinesin-like protein NACK1
SNP_37633_A_32017930	NC_021164.1	Ca_Kabuli_Chr05	32017930	AA	GG	GG	DRR	101513392	transmembrane and coiled-coil domain-containing protein 4-like
SNP_37634_A_32021619	NC_021164.1	Ca_Kabuli_Chr05	32021619	AA	TT	TT	INTRON	101513392	transmembrane and coiled-coil domain-containing protein 4-like
SNP_37636_A_32023688	NC_021164.1	Ca_Kabuli_Chr05	32023688	TT	CC	CC	INTRON	101513392	transmembrane and coiled-coil domain-containing protein 4-like
SNP_37637_A_32024285	NC_021164.1	Ca_Kabuli_Chr05	32024285	TT	AA	AA	INTRON	101513392	transmembrane and coiled-coil domain-containing protein 4-like
SNP_37638_A_32029120	NC_021164.1	Ca_Kabuli_Chr05	32029120	GG	AA	AA	INTERGENIC		
SNP_37639_A_32032455	NC_021164.1	Ca_Kabuli_Chr05	32032455	AA	GG	GG	DRR	101513703	uncharacterized LOC101513703
SNP_37640_A_32040788	NC_021164.1	Ca_Kabuli_Chr05	32040788	GG	TT	TT	DRR	101514275	floral homeotic protein DEFICIENS
SNP_37641_A_32040800	NC_021164.1	Ca_Kabuli_Chr05	32040800	AA	GG	GG	DRR	101514275	floral homeotic protein DEFICIENS
SNP_37642_A_32041065	NC_021164.1	Ca_Kabuli_Chr05	32041065	AA	GG	GG	DRR	101514275	floral homeotic protein DEFICIENS
SNP_37643_A_32041116	NC_021164.1	Ca_Kabuli_Chr05	32041116	CC	GG	GG	DRR	101514275	floral homeotic protein DEFICIENS
SNP_37644_A_32041374	NC_021164.1	Ca_Kabuli_Chr05	32041374	GG	AA	AA	INTERGENIC		
SNP_37646_A_32041795	NC_021164.1	Ca_Kabuli_Chr05	32041795	CC	TT	TT	SYNONYMOUS_CODING	101514275	floral homeotic protein DEFICIENS
SNP_37648_A_32044913	NC_021164.1	Ca_Kabuli_Chr05	32044913	AA	CC	CC	URR	101514275	floral homeotic protein DEFICIENS
SNP_37649_A_32044932	NC_021164.1	Ca_Kabuli_Chr05	32044932	GG	TT	TT	URR	101514275	floral homeotic protein DEFICIENS
SNP_37650_A_32044960	NC_021164.1	Ca_Kabuli_Chr05	32044960	AA	GG	GG	URR	101514275	floral homeotic protein DEFICIENS
SNP_37651_A_32044964	NC_021164.1	Ca_Kabuli_Chr05	32044964	TT	AA	AA	URR	101514275	floral homeotic protein DEFICIENS

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37652_A_32047183	NC_021164.1	Ca_Kabuli_Chr05	32047183	GG	AA	AA	INTERGENIC		
SNP_37654_A_32063061	NC_021164.1	Ca_Kabuli_Chr05	32063061	AA	TT	TT	INTRON	101509738	S-type anion channel SLAH4-like
SNP_37655_A_32064916	NC_021164.1	Ca_Kabuli_Chr05	32064916	GG	AA	AA	URR	101509738	S-type anion channel SLAH4-like
SNP_37656_A_32064944	NC_021164.1	Ca_Kabuli_Chr05	32064944	TT	CC	CC	URR	101509738	S-type anion channel SLAH4-like
SNP_37657_A_32065596	NC_021164.1	Ca_Kabuli_Chr05	32065596	GG	AA	AA	URR	101509738	S-type anion channel SLAH4-like
SNP_37659_A_32069349	NC_021164.1	Ca_Kabuli_Chr05	32069349	AA	CC	CC	URR	101510059	protein SHORT INTERNODES-like
SNP_37660_A_32080772	NC_021164.1	Ca_Kabuli_Chr05	32080772	AA	GG	GG	DRR	101514922	transcription initiation factor IIF subunit beta
SNP_37661_A_32082503	NC_021164.1	Ca_Kabuli_Chr05	32082503	CC	AA	AA	INTERGENIC		
SNP_37662_A_32082877	NC_021164.1	Ca_Kabuli_Chr05	32082877	CC	TT	TT	INTERGENIC		
SNP_37663_A_32082878	NC_021164.1	Ca_Kabuli_Chr05	32082878	AA	GG	GG	INTERGENIC		
SNP_37664_A_32083701	NC_021164.1	Ca_Kabuli_Chr05	32083701	TT	CC	CC	INTERGENIC		
SNP_37665_A_32084287	NC_021164.1	Ca_Kabuli_Chr05	32084287	TT	AA	AA	INTRON	101514922	transcription initiation factor IIF subunit beta
SNP_37666_A_32085082	NC_021164.1	Ca_Kabuli_Chr05	32085082	GG	CC	CC	INTRON	101514922	transcription initiation factor IIF subunit beta
SNP_37668_A_32087317	NC_021164.1	Ca_Kabuli_Chr05	32087317	TT	AA	AA	URR	101514922	transcription initiation factor IIF subunit beta
SNP_37670_A_32094318	NC_021164.1	Ca_Kabuli_Chr05	32094318	AA	TT	TT	INTERGENIC		
SNP_37671_A_32096143	NC_021164.1	Ca_Kabuli_Chr05	32096143	CC	AA	AA	INTERGENIC		
SNP_37673_A_32096353	NC_021164.1	Ca_Kabuli_Chr05	32096353	TT	CC	CC	INTERGENIC		
SNP_37674_A_32096363	NC_021164.1	Ca_Kabuli_Chr05	32096363	GG	TT	TT	INTERGENIC		
SNP_37675_A_32097064	NC_021164.1	Ca_Kabuli_Chr05	32097064	TT	AA	AA	DRR	101515772	protein WALLS ARE THIN 1
SNP_37676_A_32097091	NC_021164.1	Ca_Kabuli_Chr05	32097091	AA	GG	GG	DRR	101515772	protein WALLS ARE THIN 1
SNP_37677_A_32097128	NC_021164.1	Ca_Kabuli_Chr05	32097128	GG	AA	AA	DRR	101515772	protein WALLS ARE THIN 1
SNP_37678_A_32097136	NC_021164.1	Ca_Kabuli_Chr05	32097136	CC	AA	AA	DRR	101515772	protein WALLS ARE THIN 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37680_A_32100226	NC_021164.1	Ca_Kabuli_Chr05	32100226	TT	AA	AA	INTRON	101515772	protein WALLS ARE THIN 1
SNP_37681_A_32112920	NC_021164.1	Ca_Kabuli_Chr05	32112920	CC	TT	TT	URR	101515245	protein NRT1/ PTR FAMILY 8.1-like
SNP_37682_A_32112998	NC_021164.1	Ca_Kabuli_Chr05	32112998	TT	CC	CC	URR	101515245	protein NRT1/ PTR FAMILY 8.1-like
SNP_37683_A_32113963	NC_021164.1	Ca_Kabuli_Chr05	32113963	AA	GG	GG	URR	101515245	protein NRT1/ PTR FAMILY 8.1-like
SNP_37684_A_32119211	NC_021164.1	Ca_Kabuli_Chr05	32119211	AA	TT	TT	INTERGENIC		
SNP_37685_A_32143000	NC_021164.1	Ca_Kabuli_Chr05	32143000	AA	GG	GG	INTERGENIC		
SNP_37686_A_32146934	NC_021164.1	Ca_Kabuli_Chr05	32146934	TT	CC	CC	DRR	101489753	thioredoxin H-type-like
SNP_37688_A_32156853	NC_021164.1	Ca_Kabuli_Chr05	32156853	AA	GG	GG	URR	101410575	transfer RNA alanine (anticodon AGC)
SNP_37689_A_32159777	NC_021164.1	Ca_Kabuli_Chr05	32159777	GG	AA	AA	INTERGENIC		
SNP_37690_A_32159811	NC_021164.1	Ca_Kabuli_Chr05	32159811	TT	CC	CC	INTERGENIC		
SNP_37691_A_32160033	NC_021164.1	Ca_Kabuli_Chr05	32160033	CC	TT	TT	INTERGENIC		
SNP_37692_A_32161584	NC_021164.1	Ca_Kabuli_Chr05	32161584	TT	AA	AA	INTERGENIC		
SNP_37693_A_32161595	NC_021164.1	Ca_Kabuli_Chr05	32161595	AA	GG	GG	INTERGENIC		
SNP_37695_A_32164269	NC_021164.1	Ca_Kabuli_Chr05	32164269	AA	CC	CC	INTERGENIC		
SNP_37696_A_32165620	NC_021164.1	Ca_Kabuli_Chr05	32165620	TT	CC	CC	INTERGENIC		
SNP_37697_A_32165668	NC_021164.1	Ca_Kabuli_Chr05	32165668	AA	CC	CC	INTERGENIC		
SNP_37698_A_32165987	NC_021164.1	Ca_Kabuli_Chr05	32165987	TT	CC	CC	INTERGENIC		
SNP_37699_A_32190432	NC_021164.1	Ca_Kabuli_Chr05	32190432	CC	TT	TT	URR	101491682	BEL1-like homeodomain protein 7
SNP_37700_A_32190866	NC_021164.1	Ca_Kabuli_Chr05	32190866	GG	AA	AA	URR	101491682	BEL1-like homeodomain protein 7
SNP_37702_A_32196986	NC_021164.1	Ca_Kabuli_Chr05	32196986	AA	GG	GG	URR	101491993	BEL1-like homeodomain protein 11
SNP_37703_A_32196987	NC_021164.1	Ca_Kabuli_Chr05	32196987	AA	GG	GG	URR	101491993	BEL1-like homeodomain protein 11
SNP_37704_A_32196992	NC_021164.1	Ca_Kabuli_Chr05	32196992	CC	TT	TT	URR	101491993	BEL1-like homeodomain protein 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37705_A_32197004	NC_021164.1	Ca_Kabuli_Chr05	32197004	TT	CC	CC	URR	101491993	BEL1-like homeodomain protein 11
SNP_37706_A_32197011	NC_021164.1	Ca_Kabuli_Chr05	32197011	AA	TT	TT	URR	101491993	BEL1-like homeodomain protein 11
SNP_37707_A_32200735	NC_021164.1	Ca_Kabuli_Chr05	32200735	AA	TT	TT	INTERGENIC		
SNP_37708_A_32200972	NC_021164.1	Ca_Kabuli_Chr05	32200972	GG	TT	TT	INTERGENIC		
SNP_37710_A_32206889	NC_021164.1	Ca_Kabuli_Chr05	32206889	GG	AA	AA	URR	101492329	uncharacterized LOC101492329
SNP_37711_A_32206960	NC_021164.1	Ca_Kabuli_Chr05	32206960	GG	CC	CC	URR	101492329	uncharacterized LOC101492329
SNP_37712_A_32207655	NC_021164.1	Ca_Kabuli_Chr05	32207655	GG	AA	AA	DRR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37713_A_32207727	NC_021164.1	Ca_Kabuli_Chr05	32207727	CC	TT	TT	DRR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37714_A_32207729	NC_021164.1	Ca_Kabuli_Chr05	32207729	AA	TT	TT	DRR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37715_A_32207764	NC_021164.1	Ca_Kabuli_Chr05	32207764	TT	CC	CC	DRR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37716_A_32208647	NC_021164.1	Ca_Kabuli_Chr05	32208647	AA	CC	CC	INTERGENIC		
SNP_37717_A_32212965	NC_021164.1	Ca_Kabuli_Chr05	32212965	TT	AA	AA	URR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37718_A_32212972	NC_021164.1	Ca_Kabuli_Chr05	32212972	CC	AA	AA	URR	101492658	26S protease regulatory subunit 10B homolog A
SNP_37719_A_32219318	NC_021164.1	Ca_Kabuli_Chr05	32219318	AA	GG	GG	URR	101492993	uncharacterized LOC101492993
SNP_37720_A_32221725	NC_021164.1	Ca_Kabuli_Chr05	32221725	AA	TT	TT	URR	101493647	uncharacterized LOC101493647
SNP_37721_A_32222796	NC_021164.1	Ca_Kabuli_Chr05	32222796	CC	TT	TT	URR	101493647	uncharacterized LOC101493647
SNP_37722_A_32222979	NC_021164.1	Ca_Kabuli_Chr05	32222979	CC	TT	TT	URR	101493647	uncharacterized LOC101493647
SNP_37723_A_32224435	NC_021164.1	Ca_Kabuli_Chr05	32224435	TT	CC	CC	INTERGENIC		
SNP_37724_A_32224445	NC_021164.1	Ca_Kabuli_Chr05	32224445	CC	GG	GG	INTERGENIC		
SNP_37725_A_32224713	NC_021164.1	Ca_Kabuli_Chr05	32224713	GG	AA	AA	INTERGENIC		
SNP_37726_A_32224764	NC_021164.1	Ca_Kabuli_Chr05	32224764	GG	TT	TT	INTERGENIC		
SNP_37727_A_32224776	NC_021164.1	Ca_Kabuli_Chr05	32224776	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37728_A_32225410	NC_021164.1	Ca_Kabuli_Chr05	32225410	TT	CC	CC	INTERGENIC		
SNP_37730_A_32226827	NC_021164.1	Ca_Kabuli_Chr05	32226827	GG	TT	TT	INTERGENIC		
SNP_37731_A_32232233	NC_021164.1	Ca_Kabuli_Chr05	32232233	CC	TT	TT	URR	101493960	mitogen-activated protein kinase homolog NTF3
SNP_37732_A_32235925	NC_021164.1	Ca_Kabuli_Chr05	32235925	GG	TT	TT	INTERGENIC		
SNP_37733_A_32235926	NC_021164.1	Ca_Kabuli_Chr05	32235926	AA	GG	GG	INTERGENIC		
SNP_37734_A_32238070	NC_021164.1	Ca_Kabuli_Chr05	32238070	TT	CC	CC	INTERGENIC		
SNP_37736_A_32243575	NC_021164.1	Ca_Kabuli_Chr05	32243575	GG	AA	AA	URR	101494488	uncharacterized LOC101494488
SNP_37737_A_32258038	NC_021164.1	Ca_Kabuli_Chr05	32258038	CC	TT	TT	INTERGENIC		
SNP_37738_A_32258044	NC_021164.1	Ca_Kabuli_Chr05	32258044	AA	CC	CC	INTERGENIC		
SNP_37739_A_32258946	NC_021164.1	Ca_Kabuli_Chr05	32258946	GG	TT	TT	INTERGENIC		
SNP_37740_A_32259298	NC_021164.1	Ca_Kabuli_Chr05	32259298	TT	AA	AA	INTERGENIC		
SNP_37741_A_32259464	NC_021164.1	Ca_Kabuli_Chr05	32259464	GG	AA	AA	INTERGENIC		
SNP_37742_A_32268446	NC_021164.1	Ca_Kabuli_Chr05	32268446	AA	GG	GG	URR	101495014	AP-4 complex subunit mu-like
SNP_37743_A_32273468	NC_021164.1	Ca_Kabuli_Chr05	32273468	AA	CC	CC	INTERGENIC		
SNP_37744_A_32279623	NC_021164.1	Ca_Kabuli_Chr05	32279623	GG	TT	TT	DRR	101495342	omega-hydroxypalmitate O-feruloyl transferase-like
SNP_37745_A_32279729	NC_021164.1	Ca_Kabuli_Chr05	32279729	GG	AA	AA	DRR	101495342	omega-hydroxypalmitate O-feruloyl transferase-like
SNP_37746_A_32292902	NC_021164.1	Ca_Kabuli_Chr05	32292902	GG	AA	AA	SYNONYMOUS_CODING	101510387	serine/threonine-protein phosphatase 7 long form homolog
SNP_37747_A_32293210	NC_021164.1	Ca_Kabuli_Chr05	32293210	GG	AA	AA	URR	101510387	serine/threonine-protein phosphatase 7 long form homolog
SNP_37748_A_32305961	NC_021164.1	Ca_Kabuli_Chr05	32305961	TT	AA	AA	INTERGENIC		
SNP_37749_A_32307012	NC_021164.1	Ca_Kabuli_Chr05	32307012	TT	CC	CC	DRR	101495671	transcription factor bHLH110
SNP_37750_A_32307069	NC_021164.1	Ca_Kabuli_Chr05	32307069	CC	TT	TT	DRR	101495671	transcription factor bHLH110
SNP_37751_A_32307073	NC_021164.1	Ca_Kabuli_Chr05	32307073	CC	TT	TT	DRR	101495671	transcription factor bHLH110

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37752_A_32307629	NC_021164.1	Ca_Kabuli_Chr05	32307629	AA	GG	GG	DRR	101495671	transcription factor bHLH110
SNP_37753_A_32317492	NC_021164.1	Ca_Kabuli_Chr05	32317492	TT	CC	CC	INTRON	101497091	bifunctional nuclease 1
SNP_37754_A_32317824	NC_021164.1	Ca_Kabuli_Chr05	32317824	CC	TT	TT	SPLICE_SITE_REGION	101497091	bifunctional nuclease 1
SNP_37755_A_32320354	NC_021164.1	Ca_Kabuli_Chr05	32320354	TT	AA	AA	URR	101497091	bifunctional nuclease 1
SNP_37756_A_32320453	NC_021164.1	Ca_Kabuli_Chr05	32320453	CC	TT	TT	INTERGENIC		
SNP_37757_A_32321942	NC_021164.1	Ca_Kabuli_Chr05	32321942	AA	CC	CC	INTERGENIC		
SNP_37759_A_32324712	NC_021164.1	Ca_Kabuli_Chr05	32324712	CC	TT	TT	URR	101496547	phosphatidylinositol/phosphatidylcholine transfer protein SFH6 like
SNP_37760_A_32324721	NC_021164.1	Ca_Kabuli_Chr05	32324721	CC	AA	AA	URR	101496547	phosphatidylinositol/phosphatidylcholine transfer protein SFH6 like
SNP_37761_A_32347572	NC_021164.1	Ca_Kabuli_Chr05	32347572	CC	GG	GG	INTERGENIC		
SNP_37762_A_32347573	NC_021164.1	Ca_Kabuli_Chr05	32347573	TT	GG	GG	INTERGENIC		
SNP_37763_A_32347608	NC_021164.1	Ca_Kabuli_Chr05	32347608	CC	TT	TT	INTERGENIC		
SNP_37764_A_32348476	NC_021164.1	Ca_Kabuli_Chr05	32348476	TT	CC	CC	URR	101511038	abscisic acid 8-hydroxylase 4
SNP_37766_A_32349779	NC_021164.1	Ca_Kabuli_Chr05	32349779	GG	AA	AA	INTERGENIC		
SNP_37767_A_32350157	NC_021164.1	Ca_Kabuli_Chr05	32350157	TT	CC	CC	INTERGENIC		
SNP_37768_A_32351429	NC_021164.1	Ca_Kabuli_Chr05	32351429	AA	GG	GG	INTERGENIC		
SNP_37769_A_32358086	NC_021164.1	Ca_Kabuli_Chr05	32358086	GG	AA	AA	URR	101497622	60S ribosome subunit biogenesis protein NIP7 homolog
SNP_37770_A_32361133	NC_021164.1	Ca_Kabuli_Chr05	32361133	AA	CC	CC	INTERGENIC		
SNP_37771_A_32380394	NC_021164.1	Ca_Kabuli_Chr05	32380394	CC	TT	TT	URR	101499276	Unknown function
SNP_37772_A_32380740	NC_021164.1	Ca_Kabuli_Chr05	32380740	AA	GG	GG	URR	101499276	Unknown function
SNP_37773_A_32385541	NC_021164.1	Ca_Kabuli_Chr05	32385541	GG	TT	TT	INTERGENIC		
SNP_37775_A_32478658	NC_021164.1	Ca_Kabuli_Chr05	32478658	AA	TT	TT	INTERGENIC		
SNP_37776_A_32521579	NC_021164.1	Ca_Kabuli_Chr05	32521579	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37777_A_32521580	NC_021164.1	Ca_Kabuli_Chr05	32521580	TT	CC	CC	INTERGENIC		
SNP_37779_A_32649556	NC_021164.1	Ca_Kabuli_Chr05	32649556	CC	TT	TT	INTERGENIC		
SNP_37780_A_32649557	NC_021164.1	Ca_Kabuli_Chr05	32649557	CC	TT	TT	INTERGENIC		
SNP_37782_A_32664231	NC_021164.1	Ca_Kabuli_Chr05	32664231	CC	TT	TT	DRR	101514149	pentatricopeptide repeat-containing protein At5g66520-like
SNP_37783_A_32688413	NC_021164.1	Ca_Kabuli_Chr05	32688413	AA	GG	GG	URR	101515673	probable rhamnogalacturonate lyase B
SNP_37784_A_32709727	NC_021164.1	Ca_Kabuli_Chr05	32709727	TT	AA	AA	URR	101488985	pentatricopeptide repeat-containing protein At1g09900
SNP_37785_A_32745696	NC_021164.1	Ca_Kabuli_Chr05	32745696	GG	AA	AA	INTERGENIC		
SNP_37787_A_32764330	NC_021164.1	Ca_Kabuli_Chr05	32764330	GG	CC	CC	INTERGENIC		
SNP_37790_A_33087711	NC_021164.1	Ca_Kabuli_Chr05	33087711	AA	GG	GG	INTRON	101497956	uncharacterized LOC101497956
SNP_37791_A_33097290	NC_021164.1	Ca_Kabuli_Chr05	33097290	CC	TT	TT	INTERGENIC		
SNP_37793_A_33166345	NC_021164.1	Ca_Kabuli_Chr05	33166345	CC	TT	TT	INTERGENIC		
SNP_37794_A_33166393	NC_021164.1	Ca_Kabuli_Chr05	33166393	TT	CC	CC	INTERGENIC		
SNP_37795_A_33225210	NC_021164.1	Ca_Kabuli_Chr05	33225210	CC	TT	TT	INTERGENIC		
SNP_37796_A_33225329	NC_021164.1	Ca_Kabuli_Chr05	33225329	CC	TT	TT	INTERGENIC		
SNP_37797_A_33225588	NC_021164.1	Ca_Kabuli_Chr05	33225588	CC	AA	AA	INTERGENIC		
SNP_37798_A_33225721	NC_021164.1	Ca_Kabuli_Chr05	33225721	TT	CC	CC	INTERGENIC		
SNP_37799_A_33225778	NC_021164.1	Ca_Kabuli_Chr05	33225778	GG	AA	AA	INTERGENIC		
SNP_37800_A_33390188	NC_021164.1	Ca_Kabuli_Chr05	33390188	CC	TT	TT	INTERGENIC		
SNP_37801_A_33390198	NC_021164.1	Ca_Kabuli_Chr05	33390198	CC	TT	TT	INTERGENIC		
SNP_37802_A_33413811	NC_021164.1	Ca_Kabuli_Chr05	33413811	AA	TT	TT	DRR	101495889	peptidyl-tRNA hydrolase 2, mitochondrial
SNP_37803_A_33441154	NC_021164.1	Ca_Kabuli_Chr05	33441154	TT	AA	AA	INTERGENIC		
SNP_37804_A_33441522	NC_021164.1	Ca_Kabuli_Chr05	33441522	TT	CC	CC	DRR	101496115	transcription factor DIVARICATA-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37805_A_33441585	NC_021164.1	Ca_Kabuli_Chr05	33441585	CC	GG	GG	DRR	101496115	transcription factor DIVARICATA-like
SNP_37807_A_33451021	NC_021164.1	Ca_Kabuli_Chr05	33451021	CC	AA	AA	INTERGENIC		
SNP_37808_A_33454577	NC_021164.1	Ca_Kabuli_Chr05	33454577	CC	TT	TT	DRR	101496444	Unknown function
SNP_37812_A_33457504	NC_021164.1	Ca_Kabuli_Chr05	33457504	CC	AA	AA	URR	101496444	Unknown function
SNP_37813_A_33457639	NC_021164.1	Ca_Kabuli_Chr05	33457639	TT	CC	CC	URR	101496444	Unknown function
SNP_37814_A_33457689	NC_021164.1	Ca_Kabuli_Chr05	33457689	CC	TT	TT	URR	101496444	Unknown function
SNP_37815_A_33457884	NC_021164.1	Ca_Kabuli_Chr05	33457884	GG	TT	TT	URR	101496444	Unknown function
SNP_37817_A_33457965	NC_021164.1	Ca_Kabuli_Chr05	33457965	GG	AA	AA	URR	101496444	Unknown function
SNP_37818_A_33457987	NC_021164.1	Ca_Kabuli_Chr05	33457987	TT	CC	CC	INTERGENIC		
SNP_37819_A_33465441	NC_021164.1	Ca_Kabuli_Chr05	33465441	AA	CC	CC	INTRON	101496774	probable transcriptional regulatory protein At2g25830
SNP_37820_A_33487219	NC_021164.1	Ca_Kabuli_Chr05	33487219	GG	CC	CC	INTERGENIC		
SNP_37821_A_33600032	NC_021164.1	Ca_Kabuli_Chr05	33600032	AA	CC	CC	DRR	101497756	Unknown function
SNP_37823_A_33652833	NC_021164.1	Ca_Kabuli_Chr05	33652833	AA	GG	GG	INTERGENIC		
SNP_37825_A_33693547	NC_021164.1	Ca_Kabuli_Chr05	33693547	GG	AA	AA	NON_SYNONYMOUS_CODING	101505889	eukaryotic translation initiation factor 3 subunit L-like
SNP_37826_A_33831109	NC_021164.1	Ca_Kabuli_Chr05	33831109	AA	GG	GG	DRR	101510277	uncharacterized LOC101510277
SNP_37827_A_33925646	NC_021164.1	Ca_Kabuli_Chr05	33925646	TT	CC	CC	DRR	101515123	beta-galactosidase 5-like
SNP_37828_A_33939131	NC_021164.1	Ca_Kabuli_Chr05	33939131	CC	TT	TT	URR	101515441	uncharacterized LOC101515441
SNP_37829_A_33939157	NC_021164.1	Ca_Kabuli_Chr05	33939157	AA	GG	GG	URR	101515441	uncharacterized LOC101515441
SNP_37830_A_33939185	NC_021164.1	Ca_Kabuli_Chr05	33939185	GG	AA	AA	URR	101515441	uncharacterized LOC101515441
SNP_37831_A_34001987	NC_021164.1	Ca_Kabuli_Chr05	34001987	GG	TT	TT	INTERGENIC		
SNP_37832_A_34039007	NC_021164.1	Ca_Kabuli_Chr05	34039007	TT	CC	CC	INTERGENIC		
SNP_37833_A_34066240	NC_021164.1	Ca_Kabuli_Chr05	34066240	CC	TT	TT	DRR	101495016	small ubiquitin-related modifier 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37835_A_34085893	NC_021164.1	Ca_Kabuli_Chr05	34085893	CC	TT	TT	INTERGENIC		
SNP_37836_A_34090958	NC_021164.1	Ca_Kabuli_Chr05	34090958	CC	TT	TT	URR	101496548	probable inactive protein kinase DDB_G0270444
SNP_37837_A_34096067	NC_021164.1	Ca_Kabuli_Chr05	34096067	TT	AA	AA	INTERGENIC		
SNP_37838_A_34096072	NC_021164.1	Ca_Kabuli_Chr05	34096072	AA	TT	TT	INTERGENIC		
SNP_37840_A_34226108	NC_021164.1	Ca_Kabuli_Chr05	34226108	GG	CC	CC	URR	101501291	uncharacterized LOC101501291
SNP_37841_A_34254736	NC_021164.1	Ca_Kabuli_Chr05	34254736	CC	TT	TT	INTERGENIC		
SNP_37842_A_34254739	NC_021164.1	Ca_Kabuli_Chr05	34254739	GG	AA	AA	INTERGENIC		
SNP_37843_A_34336411	NC_021164.1	Ca_Kabuli_Chr05	34336411	GG	AA	AA	INTERGENIC		
SNP_37844_A_34380931	NC_021164.1	Ca_Kabuli_Chr05	34380931	CC	AA	AA	DRR	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37845_A_34381022	NC_021164.1	Ca_Kabuli_Chr05	34381022	GG	AA	AA	NON_SYNONYMOUS_CODING	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37846_A_34381037	NC_021164.1	Ca_Kabuli_Chr05	34381037	AA	GG	GG	NON_SYNONYMOUS_CODING	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37847_A_34381049	NC_021164.1	Ca_Kabuli_Chr05	34381049	CC	AA	AA	NON_SYNONYMOUS_CODING	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37848_A_34381347	NC_021164.1	Ca_Kabuli_Chr05	34381347	CC	GG	GG	INTRON	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37849_A_34381394	NC_021164.1	Ca_Kabuli_Chr05	34381394	TT	CC	CC	INTRON	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37850_A_34381463	NC_021164.1	Ca_Kabuli_Chr05	34381463	TT	CC	CC	INTRON	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37851_A_34381516	NC_021164.1	Ca_Kabuli_Chr05	34381516	TT	CC	CC	NON_SYNONYMOUS_CODING	101499697	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_37852_A_34467633	NC_021164.1	Ca_Kabuli_Chr05	34467633	AA	GG	GG	INTERGENIC		
SNP_37853_A_34500239	NC_021164.1	Ca_Kabuli_Chr05	34500239	AA	CC	CC	URR	101511039	2-oxoglutarate-dependent dioxygenase AOP3-like
SNP_37854_A_34500242	NC_021164.1	Ca_Kabuli_Chr05	34500242	AA	TT	TT	URR	101511039	2-oxoglutarate-dependent dioxygenase AOP3-like
SNP_37855_A_34540152	NC_021164.1	Ca_Kabuli_Chr05	34540152	CC	TT	TT	URR	101410606	transfer RNA glycine (anticodon UCC)
SNP_37856_A_34569372	NC_021164.1	Ca_Kabuli_Chr05	34569372	GG	AA	AA	DRR	101514693	probable boron transporter 7
SNP_37857_A_34623790	NC_021164.1	Ca_Kabuli_Chr05	34623790	CC	TT	TT	INTERGENIC		

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SNP_37860_A_34728608	NC_021164.1	Ca_Kabuli_Chr05	34728608	AA	GG	GG	INTERGENIC		
SNP_37861_A_34777131	NC_021164.1	Ca_Kabuli_Chr05	34777131	AA	GG	GG	INTERGENIC		
SNP_37862_A_34802899	NC_021164.1	Ca_Kabuli_Chr05	34802899	AA	GG	GG	INTERGENIC		
SNP_37863_A_34825347	NC_021164.1	Ca_Kabuli_Chr05	34825347	AA	GG	GG	DRR	101498183	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5
SNP_37864_A_34830326	NC_021164.1	Ca_Kabuli_Chr05	34830326	AA	TT	TT	URR	101498183	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5
SNP_37865_A_34843148	NC_021164.1	Ca_Kabuli_Chr05	34843148	TT	CC	CC	URR	101502567	uncharacterized LOC101502567
SNP_37866_A_34863005	NC_021164.1	Ca_Kabuli_Chr05	34863005	TT	AA	AA	INTRON	101499177	UDP-sugar transporter sqv-7-like
SNP_37867_A_34863006	NC_021164.1	Ca_Kabuli_Chr05	34863006	TT	CC	CC	INTRON	101499177	UDP-sugar transporter sqv-7-like
SNP_37868_A_34868354	NC_021164.1	Ca_Kabuli_Chr05	34868354	AA	CC	CC	URR	101499177	UDP-sugar transporter sqv-7-like
SNP_37869_A_34868782	NC_021164.1	Ca_Kabuli_Chr05	34868782	CC	TT	TT	INTERGENIC		
SNP_37871_A_34875212	NC_021164.1	Ca_Kabuli_Chr05	34875212	AA	GG	GG	INTERGENIC		
SNP_37872_A_34883986	NC_021164.1	Ca_Kabuli_Chr05	34883986	AA	CC	CC	URR	101500760	ATP synthase subunit b', chloroplastic
SNP_37874_A_35075694	NC_021164.1	Ca_Kabuli_Chr05	35075694	AA	GG	GG	INTERGENIC		
SNP_37876_A_35113793	NC_021164.1	Ca_Kabuli_Chr05	35113793	AA	TT	TT	INTERGENIC		
SNP_37877_A_35139423	NC_021164.1	Ca_Kabuli_Chr05	35139423	AA	CC	CC	INTRON	101508564	CHD3-type chromatin-remodeling factor PICKLE
SNP_37878_A_35161362	NC_021164.1	Ca_Kabuli_Chr05	35161362	CC	TT	TT	INTERGENIC		
SNP_37880_A_35198529	NC_021164.1	Ca_Kabuli_Chr05	35198529	GG	AA	AA	INTERGENIC		
SNP_37881_A_35223870	NC_021164.1	Ca_Kabuli_Chr05	35223870	AA	GG	GG	INTERGENIC		
SNP_37884_A_35364092	NC_021164.1	Ca_Kabuli_Chr05	35364092	CC	TT	TT	INTERGENIC		
SNP_37886_A_35606571	NC_021164.1	Ca_Kabuli_Chr05	35606571	GG	AA	AA	INTERGENIC		
SNP_37888_A_35651148	NC_021164.1	Ca_Kabuli_Chr05	35651148	TT	GG	GG	URR	101500005	myosin-15-like
SNP_37889_A_35651152	NC_021164.1	Ca_Kabuli_Chr05	35651152	AA	CC	CC	URR	101500005	myosin-15-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37891_A_35876468	NC_021164.1	Ca_Kabuli_Chr05	35876468	CC	TT	TT	DRR	101511444	probable ADP,ATP carrier protein At5g56450
SNP_37892_A_35909424	NC_021164.1	Ca_Kabuli_Chr05	35909424	AA	TT	TT	INTERGENIC		
SNP_37893_A_36086209	NC_021164.1	Ca_Kabuli_Chr05	36086209	GG	AA	AA	DRR	101509000	uncharacterized LOC101509000
SNP_37895_A_36133831	NC_021164.1	Ca_Kabuli_Chr05	36133831	GG	AA	AA	URR	101493533	uncharacterized LOC101493533
SNP_37899_A_36254208	NC_021164.1	Ca_Kabuli_Chr05	36254208	CC	AA	AA	URR	101497959	calcium-transporting ATPase 3, endoplasmic reticulum-type
SNP_37901_A_36364328	NC_021164.1	Ca_Kabuli_Chr05	36364328	TT	CC	CC	INTERGENIC		
SNP_37902_A_36414153	NC_021164.1	Ca_Kabuli_Chr05	36414153	TT	AA	AA	DRR	101504819	uncharacterized LOC101504819
SNP_37903_A_36444572	NC_021164.1	Ca_Kabuli_Chr05	36444572	AA	TT	TT	DRR	101505787	peamaclelin-like
SNP_37904_A_36445217	NC_021164.1	Ca_Kabuli_Chr05	36445217	AA	GG	GG	INTERGENIC		
SNP_37905_A_36445229	NC_021164.1	Ca_Kabuli_Chr05	36445229	TT	AA	AA	INTERGENIC		
SNP_37906_A_36445324	NC_021164.1	Ca_Kabuli_Chr05	36445324	CC	TT	TT	INTERGENIC		
SNP_37907_A_36445326	NC_021164.1	Ca_Kabuli_Chr05	36445326	CC	TT	TT	INTERGENIC		
SNP_37908_A_36453515	NC_021164.1	Ca_Kabuli_Chr05	36453515	TT	GG	GG	INTERGENIC		
SNP_37910_A_36492371	NC_021164.1	Ca_Kabuli_Chr05	36492371	CC	TT	TT	INTERGENIC		
SNP_37911_A_36492376	NC_021164.1	Ca_Kabuli_Chr05	36492376	CC	TT	TT	INTERGENIC		
SNP_37912_A_36492381	NC_021164.1	Ca_Kabuli_Chr05	36492381	TT	AA	AA	INTERGENIC		
SNP_37913_A_36492389	NC_021164.1	Ca_Kabuli_Chr05	36492389	TT	AA	AA	INTERGENIC		
SNP_37914_A_36492416	NC_021164.1	Ca_Kabuli_Chr05	36492416	TT	CC	CC	INTERGENIC		
SNP_37915_A_36492417	NC_021164.1	Ca_Kabuli_Chr05	36492417	AA	GG	GG	INTERGENIC		
SNP_37916_A_36492453	NC_021164.1	Ca_Kabuli_Chr05	36492453	GG	TT	TT	INTERGENIC		
SNP_37917_A_36492747	NC_021164.1	Ca_Kabuli_Chr05	36492747	GG	AA	AA	INTERGENIC		
SNP_37918_A_36492753	NC_021164.1	Ca_Kabuli_Chr05	36492753	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37919_A_36492851	NC_021164.1	Ca_Kabuli_Chr05	36492851	AA	GG	GG	INTERGENIC		
SNP_37920_A_36521459	NC_021164.1	Ca_Kabuli_Chr05	36521459	AA	GG	GG	INTERGENIC		
SNP_37921_A_36564888	NC_021164.1	Ca_Kabuli_Chr05	36564888	TT	GG	GG	DRR	101510278	probable isoaspartyl peptidase/L-asparaginase 2
SNP_37922_A_36583849	NC_021164.1	Ca_Kabuli_Chr05	36583849	TT	AA	AA	INTERGENIC		
SNP_37923_A_36583851	NC_021164.1	Ca_Kabuli_Chr05	36583851	TT	GG	GG	INTERGENIC		
SNP_37925_A_36640449	NC_021164.1	Ca_Kabuli_Chr05	36640449	GG	AA	AA	INTERGENIC		
SNP_37926_A_36641779	NC_021164.1	Ca_Kabuli_Chr05	36641779	CC	TT	TT	INTERGENIC		
SNP_37927_A_36670844	NC_021164.1	Ca_Kabuli_Chr05	36670844	GG	AA	AA	INTRON	id112273	Unknown function
SNP_37928_A_36692246	NC_021164.1	Ca_Kabuli_Chr05	36692246	GG	AA	AA	INTERGENIC		
SNP_37929_A_36692250	NC_021164.1	Ca_Kabuli_Chr05	36692250	TT	AA	AA	INTERGENIC		
SNP_37931_A_36747984	NC_021164.1	Ca_Kabuli_Chr05	36747984	TT	CC	CC	INTERGENIC		
SNP_37932_A_36761077	NC_021164.1	Ca_Kabuli_Chr05	36761077	GG	AA	AA	INTERGENIC		
SNP_37934_A_36957774	NC_021164.1	Ca_Kabuli_Chr05	36957774	GG	AA	AA	URR	101513503	Unknown function
SNP_37935_A_36971146	NC_021164.1	Ca_Kabuli_Chr05	36971146	AA	GG	GG	URR	101497305	transcriptional activator Myb-like
SNP_37937_A_37048668	NC_021164.1	Ca_Kabuli_Chr05	37048668	AA	GG	GG	URR	101500974	DNA-directed RNA polymerase I subunit RPA12-like
SNP_37938_A_37081801	NC_021164.1	Ca_Kabuli_Chr05	37081801	TT	CC	CC	DRR	101502361	GEM-like protein 1
SNP_37939_A_37095870	NC_021164.1	Ca_Kabuli_Chr05	37095870	GG	AA	AA	INTERGENIC		
SNP_37940_A_37131732	NC_021164.1	Ca_Kabuli_Chr05	37131732	AA	GG	GG	URR	101503747	serine/threonine-protein kinase-like protein At1g28390
SNP_37941_A_37131735	NC_021164.1	Ca_Kabuli_Chr05	37131735	AA	TT	TT	URR	101503747	serine/threonine-protein kinase-like protein At1g28390
SNP_37942_A_37145036	NC_021164.1	Ca_Kabuli_Chr05	37145036	GG	AA	AA	INTERGENIC		
SNP_37943_A_37183684	NC_021164.1	Ca_Kabuli_Chr05	37183684	AA	CC	CC	URR	101506324	mitochondrial uncoupling protein 5-like
SNP_37944_A_37183686	NC_021164.1	Ca_Kabuli_Chr05	37183686	AA	CC	CC	URR	101506324	mitochondrial uncoupling protein 5-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37945_A_37223383	NC_021164.1	Ca_Kabuli_Chr05	37223383	CC	TT	TT	INTERGENIC		
SNP_37947_A_37252269	NC_021164.1	Ca_Kabuli_Chr05	37252269	AA	GG	GG	INTERGENIC		
SNP_37948_A_37285479	NC_021164.1	Ca_Kabuli_Chr05	37285479	TT	CC	CC	INTERGENIC		
SNP_37949_A_37285498	NC_021164.1	Ca_Kabuli_Chr05	37285498	TT	CC	CC	INTERGENIC		
SNP_37950_A_37285524	NC_021164.1	Ca_Kabuli_Chr05	37285524	CC	TT	TT	INTERGENIC		
SNP_37951_A_37285532	NC_021164.1	Ca_Kabuli_Chr05	37285532	AA	TT	TT	INTERGENIC		
SNP_37952_A_37285533	NC_021164.1	Ca_Kabuli_Chr05	37285533	TT	AA	AA	INTERGENIC		
SNP_37953_A_37285963	NC_021164.1	Ca_Kabuli_Chr05	37285963	TT	CC	CC	INTERGENIC		
SNP_37954_A_37474184	NC_021164.1	Ca_Kabuli_Chr05	37474184	CC	TT	TT	INTRON	101488879	BEACH domain-containing protein lvsC
SNP_37955_A_37541286	NC_021164.1	Ca_Kabuli_Chr05	37541286	CC	TT	TT	INTRON	101490938	protein SABRE
SNP_37956_A_37567325	NC_021164.1	Ca_Kabuli_Chr05	37567325	AA	GG	GG	INTERGENIC		
SNP_37957_A_37567418	NC_021164.1	Ca_Kabuli_Chr05	37567418	AA	GG	GG	INTERGENIC		
SNP_37958_A_37567436	NC_021164.1	Ca_Kabuli_Chr05	37567436	AA	CC	CC	INTERGENIC		
SNP_37959_A_37567495	NC_021164.1	Ca_Kabuli_Chr05	37567495	AA	GG	GG	INTERGENIC		
SNP_37960_A_37567498	NC_021164.1	Ca_Kabuli_Chr05	37567498	AA	GG	GG	INTERGENIC		
SNP_37961_A_37567532	NC_021164.1	Ca_Kabuli_Chr05	37567532	AA	GG	GG	INTERGENIC		
SNP_37962_A_37567561	NC_021164.1	Ca_Kabuli_Chr05	37567561	CC	TT	TT	INTERGENIC		
SNP_37963_A_37567689	NC_021164.1	Ca_Kabuli_Chr05	37567689	AA	GG	GG	INTERGENIC		
SNP_37964_A_37567806	NC_021164.1	Ca_Kabuli_Chr05	37567806	AA	CC	CC	INTERGENIC		
SNP_37965_A_37567913	NC_021164.1	Ca_Kabuli_Chr05	37567913	AA	CC	CC	INTERGENIC		
SNP_37966_A_37567915	NC_021164.1	Ca_Kabuli_Chr05	37567915	TT	CC	CC	INTERGENIC		
SNP_37967_A_37673369	NC_021164.1	Ca_Kabuli_Chr05	37673369	AA	GG	GG	INTERGENIC		

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SNP_37968_A_37686471	NC_021164.1	Ca_Kabuli_Chr05	37686471	GG	AA	AA	INTERGENIC		
SNP_37969_A_37699701	NC_021164.1	Ca_Kabuli_Chr05	37699701	AA	TT	TT	INTERGENIC		
SNP_37970_A_37701887	NC_021164.1	Ca_Kabuli_Chr05	37701887	AA	TT	TT	INTERGENIC		
SNP_37971_A_37715689	NC_021164.1	Ca_Kabuli_Chr05	37715689	GG	TT	TT	INTERGENIC		
SNP_37973_A_37826277	NC_021164.1	Ca_Kabuli_Chr05	37826277	TT	AA	AA	INTRON	101501074	uncharacterized LOC101501074
SNP_37974_A_37836556	NC_021164.1	Ca_Kabuli_Chr05	37836556	CC	GG	GG	NON_SYNONYMOUS_CODING	101501389	F-box protein At1g67340
SNP_37975_A_37839251	NC_021164.1	Ca_Kabuli_Chr05	37839251	GG	AA	AA	URR	101501389	F-box protein At1g67340
SNP_37976_A_37888337	NC_021164.1	Ca_Kabuli_Chr05	37888337	AA	GG	GG	URR	101502668	acetolactate synthase 2, chloroplastic-like
SNP_37977_A_37888343	NC_021164.1	Ca_Kabuli_Chr05	37888343	AA	CC	CC	URR	101502668	acetolactate synthase 2, chloroplastic-like
SNP_37978_A_37888347	NC_021164.1	Ca_Kabuli_Chr05	37888347	AA	GG	GG	URR	101502668	acetolactate synthase 2, chloroplastic-like
SNP_37979_A_37920655	NC_021164.1	Ca_Kabuli_Chr05	37920655	TT	CC	CC	DRR	101506429	CBS domain-containing protein CBSCBSPB5-like
SNP_37980_A_37981661	NC_021164.1	Ca_Kabuli_Chr05	37981661	AA	TT	TT	URR	101508243	HVA22-like protein e
SNP_37981_A_37981679	NC_021164.1	Ca_Kabuli_Chr05	37981679	AA	TT	TT	URR	101508243	HVA22-like protein e
SNP_37982_A_37982691	NC_021164.1	Ca_Kabuli_Chr05	37982691	GG	AA	AA	URR	101508243	HVA22-like protein e
SNP_37983_A_37984861	NC_021164.1	Ca_Kabuli_Chr05	37984861	TT	GG	GG	INTERGENIC		
SNP_37984_A_37986001	NC_021164.1	Ca_Kabuli_Chr05	37986001	TT	CC	CC	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37985_A_37986336	NC_021164.1	Ca_Kabuli_Chr05	37986336	CC	GG	GG	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37986_A_37986409	NC_021164.1	Ca_Kabuli_Chr05	37986409	TT	AA	AA	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37987_A_37986410	NC_021164.1	Ca_Kabuli_Chr05	37986410	TT	AA	AA	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37988_A_37986415	NC_021164.1	Ca_Kabuli_Chr05	37986415	TT	CC	CC	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37989_A_37986745	NC_021164.1	Ca_Kabuli_Chr05	37986745	TT	CC	CC	URR	101508771	SWI/SNF complex subunit SWI3A
SNP_37990_A_37988632	NC_021164.1	Ca_Kabuli_Chr05	37988632	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_37991_A_37988821	NC_021164.1	Ca_Kabuli_Chr05	37988821	CC	GG	GG	INTERGENIC		
SNP_37992_A_37989052	NC_021164.1	Ca_Kabuli_Chr05	37989052	AA	GG	GG	INTERGENIC		
SNP_37993_A_37989303	NC_021164.1	Ca_Kabuli_Chr05	37989303	CC	TT	TT	INTERGENIC		
SNP_37994_A_37995674	NC_021164.1	Ca_Kabuli_Chr05	37995674	TT	AA	AA	SPLICE_SITE_REGION	101509090	protein DEK
SNP_37995_A_38001112	NC_021164.1	Ca_Kabuli_Chr05	38001112	CC	TT	TT	DRR	101509958	uncharacterized LOC101509958
SNP_37996_A_38001475	NC_021164.1	Ca_Kabuli_Chr05	38001475	CC	TT	TT	DRR	101509958	uncharacterized LOC101509958
SNP_37997_A_38003094	NC_021164.1	Ca_Kabuli_Chr05	38003094	GG	AA	AA	URR	101509958	uncharacterized LOC101509958
SNP_37998_A_38003126	NC_021164.1	Ca_Kabuli_Chr05	38003126	CC	AA	AA	URR	101509958	uncharacterized LOC101509958
SNP_37999_A_38004397	NC_021164.1	Ca_Kabuli_Chr05	38004397	GG	CC	CC	INTERGENIC		
SNP_38000_A_38005109	NC_021164.1	Ca_Kabuli_Chr05	38005109	CC	AA	AA	INTERGENIC		
SNP_38002_A_38010773	NC_021164.1	Ca_Kabuli_Chr05	38010773	GG	CC	CC	INTRON	101509414	protein TAPETUM DETERMINANT 1-like
SNP_38003_A_38016422	NC_021164.1	Ca_Kabuli_Chr05	38016422	GG	TT	TT	INTERGENIC		
SNP_38005_A_38018634	NC_021164.1	Ca_Kabuli_Chr05	38018634	AA	CC	CC	INTERGENIC		
SNP_38007_A_38020606	NC_021164.1	Ca_Kabuli_Chr05	38020606	CC	AA	AA	URR	101510279	RNA pseudouridine synthase 7
SNP_38008_A_38020607	NC_021164.1	Ca_Kabuli_Chr05	38020607	AA	TT	TT	URR	101510279	RNA pseudouridine synthase 7
SNP_38009_A_38020764	NC_021164.1	Ca_Kabuli_Chr05	38020764	GG	AA	AA	INTERGENIC		
SNP_38010_A_38020785	NC_021164.1	Ca_Kabuli_Chr05	38020785	CC	AA	AA	INTERGENIC		
SNP_38011_A_38020801	NC_021164.1	Ca_Kabuli_Chr05	38020801	TT	AA	AA	INTERGENIC		
SNP_38012_A_38021056	NC_021164.1	Ca_Kabuli_Chr05	38021056	AA	GG	GG	INTERGENIC		
SNP_38013_A_38021238	NC_021164.1	Ca_Kabuli_Chr05	38021238	GG	TT	TT	INTERGENIC		
SNP_38015_A_38021380	NC_021164.1	Ca_Kabuli_Chr05	38021380	AA	TT	TT	INTERGENIC		
SNP_38016_A_38023934	NC_021164.1	Ca_Kabuli_Chr05	38023934	AA	TT	TT	INTRON	101488880	bidirectional sugar transporter SWEET10

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38018_A_38024145	NC_021164.1	Ca_Kabuli_Chr05	38024145	TT	CC	CC	INTRON	101488880	bidirectional sugar transporter SWEET10
SNP_38019_A_38024471	NC_021164.1	Ca_Kabuli_Chr05	38024471	GG	CC	CC	NON_SYNONYMOUS_CODING	101488880	bidirectional sugar transporter SWEET10
SNP_38020_A_38025739	NC_021164.1	Ca_Kabuli_Chr05	38025739	CC	TT	TT	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38021_A_38025753	NC_021164.1	Ca_Kabuli_Chr05	38025753	TT	GG	GG	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38022_A_38027131	NC_021164.1	Ca_Kabuli_Chr05	38027131	TT	AA	AA	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38023_A_38027133	NC_021164.1	Ca_Kabuli_Chr05	38027133	GG	AA	AA	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38024_A_38027379	NC_021164.1	Ca_Kabuli_Chr05	38027379	TT	AA	AA	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38025_A_38027705	NC_021164.1	Ca_Kabuli_Chr05	38027705	AA	CC	CC	URR	101488880	bidirectional sugar transporter SWEET10
SNP_38026_A_38027994	NC_021164.1	Ca_Kabuli_Chr05	38027994	CC	TT	TT	INTERGENIC		
SNP_38027_A_38028011	NC_021164.1	Ca_Kabuli_Chr05	38028011	CC	AA	AA	INTERGENIC		
SNP_38028_A_38029099	NC_021164.1	Ca_Kabuli_Chr05	38029099	CC	TT	TT	DRR	101510607	bidirectional sugar transporter N3
SNP_38029_A_38029465	NC_021164.1	Ca_Kabuli_Chr05	38029465	AA	CC	CC	DRR	101510607	bidirectional sugar transporter N3
SNP_38030_A_38029823	NC_021164.1	Ca_Kabuli_Chr05	38029823	TT	CC	CC	DRR	101510607	bidirectional sugar transporter N3
SNP_38031_A_38030042	NC_021164.1	Ca_Kabuli_Chr05	38030042	AA	TT	TT	INTERGENIC		
SNP_38033_A_38032068	NC_021164.1	Ca_Kabuli_Chr05	38032068	AA	GG	GG	URR	101510607	bidirectional sugar transporter N3
SNP_38034_A_38034572	NC_021164.1	Ca_Kabuli_Chr05	38034572	AA	GG	GG	INTERGENIC		
SNP_38037_A_38037088	NC_021164.1	Ca_Kabuli_Chr05	38037088	AA	GG	GG	INTERGENIC		
SNP_38040_A_38045838	NC_021164.1	Ca_Kabuli_Chr05	38045838	AA	TT	TT	INTERGENIC		
SNP_38041_A_38045955	NC_021164.1	Ca_Kabuli_Chr05	38045955	AA	GG	GG	INTERGENIC		
SNP_38043_A_38046020	NC_021164.1	Ca_Kabuli_Chr05	38046020	TT	AA	AA	INTERGENIC		
SNP_38044_A_38046034	NC_021164.1	Ca_Kabuli_Chr05	38046034	AA	GG	GG	INTERGENIC		
SNP_38045_A_38050022	NC_021164.1	Ca_Kabuli_Chr05	38050022	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38046_A_38050024	NC_021164.1	Ca_Kabuli_Chr05	38050024	TT	CC	CC	INTERGENIC		
SNP_38047_A_38050442	NC_021164.1	Ca_Kabuli_Chr05	38050442	GG	AA	AA	INTERGENIC		
SNP_38049_A_38052125	NC_021164.1	Ca_Kabuli_Chr05	38052125	TT	AA	AA	INTERGENIC		
SNP_38050_A_38053824	NC_021164.1	Ca_Kabuli_Chr05	38053824	TT	CC	CC	DRR	101510934	probable protein S-acyltransferase 6
SNP_38051_A_38053858	NC_021164.1	Ca_Kabuli_Chr05	38053858	AA	GG	GG	DRR	101510934	probable protein S-acyltransferase 6
SNP_38052_A_38055713	NC_021164.1	Ca_Kabuli_Chr05	38055713	AA	GG	GG	INTERGENIC		
SNP_38053_A_38059097	NC_021164.1	Ca_Kabuli_Chr05	38059097	TT	AA	AA	URR	101510934	probable protein S-acyltransferase 6
SNP_38054_A_38063448	NC_021164.1	Ca_Kabuli_Chr05	38063448	GG	AA	AA	DRR	101511564	NAC transcription factor 29
SNP_38055_A_38063522	NC_021164.1	Ca_Kabuli_Chr05	38063522	CC	TT	TT	DRR	101511564	NAC transcription factor 29
SNP_38056_A_38063531	NC_021164.1	Ca_Kabuli_Chr05	38063531	CC	TT	TT	DRR	101511564	NAC transcription factor 29
SNP_38057_A_38066224	NC_021164.1	Ca_Kabuli_Chr05	38066224	AA	GG	GG	URR	101511564	NAC transcription factor 29
SNP_38058_A_38067221	NC_021164.1	Ca_Kabuli_Chr05	38067221	GG	TT	TT	URR	101511564	NAC transcription factor 29
SNP_38059_A_38067249	NC_021164.1	Ca_Kabuli_Chr05	38067249	CC	GG	GG	URR	101511894	histone-lysine N-methyltransferase SETD1A
SNP_38060_A_38067355	NC_021164.1	Ca_Kabuli_Chr05	38067355	TT	CC	CC	URR	101511894	histone-lysine N-methyltransferase SETD1A
SNP_38061_A_38067399	NC_021164.1	Ca_Kabuli_Chr05	38067399	CC	TT	TT	URR	101511894	histone-lysine N-methyltransferase SETD1A
SNP_38064_A_38069326	NC_021164.1	Ca_Kabuli_Chr05	38069326	AA	GG	GG	INTERGENIC		
SNP_38065_A_38069360	NC_021164.1	Ca_Kabuli_Chr05	38069360	TT	AA	AA	INTERGENIC		
SNP_38066_A_38069372	NC_021164.1	Ca_Kabuli_Chr05	38069372	AA	GG	GG	INTERGENIC		
SNP_38067_A_38069503	NC_021164.1	Ca_Kabuli_Chr05	38069503	TT	AA	AA	INTERGENIC		
SNP_38068_A_38069504	NC_021164.1	Ca_Kabuli_Chr05	38069504	TT	AA	AA	INTERGENIC		
SNP_38069_A_38069544	NC_021164.1	Ca_Kabuli_Chr05	38069544	CC	TT	TT	INTERGENIC		
SNP_38070_A_38069549	NC_021164.1	Ca_Kabuli_Chr05	38069549	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38071_A_38069670	NC_021164.1	Ca_Kabuli_Chr05	38069670	AA	GG	GG	INTERGENIC		
SNP_38072_A_38069714	NC_021164.1	Ca_Kabuli_Chr05	38069714	GG	TT	TT	INTERGENIC		
SNP_38073_A_38069847	NC_021164.1	Ca_Kabuli_Chr05	38069847	AA	GG	GG	INTERGENIC		
SNP_38074_A_38069866	NC_021164.1	Ca_Kabuli_Chr05	38069866	CC	TT	TT	INTERGENIC		
SNP_38075_A_38069926	NC_021164.1	Ca_Kabuli_Chr05	38069926	CC	TT	TT	INTERGENIC		
SNP_38076_A_38069968	NC_021164.1	Ca_Kabuli_Chr05	38069968	CC	TT	TT	INTERGENIC		
SNP_38077_A_38070063	NC_021164.1	Ca_Kabuli_Chr05	38070063	AA	GG	GG	INTERGENIC		
SNP_38078_A_38070077	NC_021164.1	Ca_Kabuli_Chr05	38070077	GG	CC	CC	INTERGENIC		
SNP_38079_A_38070084	NC_021164.1	Ca_Kabuli_Chr05	38070084	GG	AA	AA	INTERGENIC		
SNP_38080_A_38070100	NC_021164.1	Ca_Kabuli_Chr05	38070100	GG	AA	AA	INTERGENIC		
SNP_38081_A_38070314	NC_021164.1	Ca_Kabuli_Chr05	38070314	GG	AA	AA	INTERGENIC		
SNP_38082_A_38070321	NC_021164.1	Ca_Kabuli_Chr05	38070321	TT	CC	CC	INTERGENIC		
SNP_38085_A_38078766	NC_021164.1	Ca_Kabuli_Chr05	38078766	AA	GG	GG	INTERGENIC		
SNP_38086_A_38078815	NC_021164.1	Ca_Kabuli_Chr05	38078815	TT	CC	CC	INTERGENIC		
SNP_38087_A_38081917	NC_021164.1	Ca_Kabuli_Chr05	38081917	GG	AA	AA	URR	101512741	probable serine/threonine-protein kinase At1g54610
SNP_38088_A_38087357	NC_021164.1	Ca_Kabuli_Chr05	38087357	CC	TT	TT	URR	101489204	uncharacterized LOC101489204
SNP_38089_A_38087417	NC_021164.1	Ca_Kabuli_Chr05	38087417	TT	CC	CC	URR	101489204	uncharacterized LOC101489204
SNP_38090_A_38087419	NC_021164.1	Ca_Kabuli_Chr05	38087419	CC	TT	TT	URR	101489204	uncharacterized LOC101489204
SNP_38091_A_38092889	NC_021164.1	Ca_Kabuli_Chr05	38092889	GG	AA	AA	URR	101513280	uncharacterized LOC101513280
SNP_38092_A_38093111	NC_021164.1	Ca_Kabuli_Chr05	38093111	AA	GG	GG	INTERGENIC		
SNP_38093_A_38094545	NC_021164.1	Ca_Kabuli_Chr05	38094545	GG	AA	AA	INTERGENIC		
SNP_38094_A_38094784	NC_021164.1	Ca_Kabuli_Chr05	38094784	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38095_A_38095630	NC_021164.1	Ca_Kabuli_Chr05	38095630	GG	AA	AA	INTERGENIC		
SNP_38096_A_38095851	NC_021164.1	Ca_Kabuli_Chr05	38095851	TT	AA	AA	INTERGENIC		
SNP_38097_A_38095889	NC_021164.1	Ca_Kabuli_Chr05	38095889	TT	AA	AA	INTERGENIC		
SNP_38098_A_38096365	NC_021164.1	Ca_Kabuli_Chr05	38096365	TT	CC	CC	INTERGENIC		
SNP_38099_A_38097204	NC_021164.1	Ca_Kabuli_Chr05	38097204	TT	CC	CC	DRR	101489528	Unknown function
SNP_38100_A_38098524	NC_021164.1	Ca_Kabuli_Chr05	38098524	AA	CC	CC	INTERGENIC		
SNP_38103_A_38110384	NC_021164.1	Ca_Kabuli_Chr05	38110384	TT	AA	AA	INTERGENIC		
SNP_38105_A_38115639	NC_021164.1	Ca_Kabuli_Chr05	38115639	TT	AA	AA	URR	101514475	vacuolar protein 8
SNP_38106_A_38116880	NC_021164.1	Ca_Kabuli_Chr05	38116880	TT	CC	CC	URR	101514475	vacuolar protein 8
SNP_38107_A_38116928	NC_021164.1	Ca_Kabuli_Chr05	38116928	CC	TT	TT	URR	101514475	vacuolar protein 8
SNP_38109_A_38119448	NC_021164.1	Ca_Kabuli_Chr05	38119448	AA	GG	GG	INTERGENIC		
SNP_38111_A_38122004	NC_021164.1	Ca_Kabuli_Chr05	38122004	TT	CC	CC	INTERGENIC		
SNP_38112_A_38122392	NC_021164.1	Ca_Kabuli_Chr05	38122392	AA	TT	TT	INTERGENIC		
SNP_38113_A_38127702	NC_021164.1	Ca_Kabuli_Chr05	38127702	AA	GG	GG	INTERGENIC		
SNP_38114_A_38132433	NC_021164.1	Ca_Kabuli_Chr05	38132433	AA	TT	TT	URR	101514801	uncharacterized LOC101514801
SNP_38115_A_38132456	NC_021164.1	Ca_Kabuli_Chr05	38132456	TT	AA	AA	URR	101514801	uncharacterized LOC101514801
SNP_38116_A_38132897	NC_021164.1	Ca_Kabuli_Chr05	38132897	TT	CC	CC	INTERGENIC		
SNP_38117_A_38132930	NC_021164.1	Ca_Kabuli_Chr05	38132930	CC	TT	TT	INTERGENIC		
SNP_38118_A_38132992	NC_021164.1	Ca_Kabuli_Chr05	38132992	TT	CC	CC	INTERGENIC		
SNP_38119_A_38137857	NC_021164.1	Ca_Kabuli_Chr05	38137857	AA	GG	GG	INTERGENIC		
SNP_38121_A_38137879	NC_021164.1	Ca_Kabuli_Chr05	38137879	CC	TT	TT	INTERGENIC		
SNP_38122_A_38137955	NC_021164.1	Ca_Kabuli_Chr05	38137955	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38123_A_38141126	NC_021164.1	Ca_Kabuli_Chr05	38141126	TT	AA	AA	INTERGENIC		
SNP_38124_A_38141204	NC_021164.1	Ca_Kabuli_Chr05	38141204	CC	TT	TT	INTERGENIC		
SNP_38125_A_38141228	NC_021164.1	Ca_Kabuli_Chr05	38141228	CC	TT	TT	INTERGENIC		
SNP_38126_A_38142165	NC_021164.1	Ca_Kabuli_Chr05	38142165	CC	TT	TT	INTERGENIC		
SNP_38127_A_38147051	NC_021164.1	Ca_Kabuli_Chr05	38147051	TT	CC	CC	INTERGENIC		
SNP_38128_A_38147500	NC_021164.1	Ca_Kabuli_Chr05	38147500	AA	TT	TT	INTERGENIC		
SNP_38129_A_38147886	NC_021164.1	Ca_Kabuli_Chr05	38147886	CC	TT	TT	INTERGENIC		
SNP_38130_A_38150992	NC_021164.1	Ca_Kabuli_Chr05	38150992	TT	CC	CC	INTRON	101515124	transcription factor bHLH137
SNP_38131_A_38151023	NC_021164.1	Ca_Kabuli_Chr05	38151023	GG	CC	CC	INTRON	101515124	transcription factor bHLH137
SNP_38132_A_38152124	NC_021164.1	Ca_Kabuli_Chr05	38152124	AA	GG	GG	INTRON	101515124	transcription factor bHLH137
SNP_38133_A_38152895	NC_021164.1	Ca_Kabuli_Chr05	38152895	CC	TT	TT	URR	101515124	transcription factor bHLH137
SNP_38134_A_38153143	NC_021164.1	Ca_Kabuli_Chr05	38153143	AA	CC	CC	URR	101515124	transcription factor bHLH137
SNP_38135_A_38155914	NC_021164.1	Ca_Kabuli_Chr05	38155914	GG	AA	AA	INTERGENIC		
SNP_38136_A_38155931	NC_021164.1	Ca_Kabuli_Chr05	38155931	AA	GG	GG	INTERGENIC		
SNP_38137_A_38156260	NC_021164.1	Ca_Kabuli_Chr05	38156260	TT	CC	CC	INTERGENIC		
SNP_38138_A_38157238	NC_021164.1	Ca_Kabuli_Chr05	38157238	GG	TT	TT	INTERGENIC		
SNP_38139_A_38159830	NC_021164.1	Ca_Kabuli_Chr05	38159830	AA	CC	CC	INTERGENIC		
SNP_38140_A_38159889	NC_021164.1	Ca_Kabuli_Chr05	38159889	AA	GG	GG	INTERGENIC		
SNP_38141_A_38159890	NC_021164.1	Ca_Kabuli_Chr05	38159890	CC	TT	TT	INTERGENIC		
SNP_38142_A_38160352	NC_021164.1	Ca_Kabuli_Chr05	38160352	TT	GG	GG	INTERGENIC		
SNP_38143_A_38160671	NC_021164.1	Ca_Kabuli_Chr05	38160671	TT	AA	AA	INTERGENIC		
SNP_38144_A_38160679	NC_021164.1	Ca_Kabuli_Chr05	38160679	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38145_A_38160730	NC_021164.1	Ca_Kabuli_Chr05	38160730	AA	CC	CC	INTERGENIC		
SNP_38146_A_38165057	NC_021164.1	Ca_Kabuli_Chr05	38165057	GG	CC	CC	INTERGENIC		
SNP_38147_A_38165299	NC_021164.1	Ca_Kabuli_Chr05	38165299	TT	CC	CC	INTERGENIC		
SNP_38148_A_38165335	NC_021164.1	Ca_Kabuli_Chr05	38165335	AA	TT	TT	INTERGENIC		
SNP_38149_A_38224129	NC_021164.1	Ca_Kabuli_Chr05	38224129	GG	AA	AA	INTERGENIC		
SNP_38150_A_38228918	NC_021164.1	Ca_Kabuli_Chr05	38228918	TT	CC	CC	INTERGENIC		
SNP_38151_A_38228977	NC_021164.1	Ca_Kabuli_Chr05	38228977	TT	CC	CC	INTERGENIC		
SNP_38152_A_38229012	NC_021164.1	Ca_Kabuli_Chr05	38229012	TT	CC	CC	INTERGENIC		
SNP_38153_A_38261213	NC_021164.1	Ca_Kabuli_Chr05	38261213	AA	GG	GG	DRR	101490179	dual specificity protein phosphatase PHS1-like
SNP_38155_A_38366468	NC_021164.1	Ca_Kabuli_Chr05	38366468	AA	TT	TT	DRR	101493329	ethylene-responsive transcription factor ERF114-like
SNP_38158_A_38407290	NC_021164.1	Ca_Kabuli_Chr05	38407290	GG	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38159_A_38407291	NC_021164.1	Ca_Kabuli_Chr05	38407291	GG	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38160_A_38407302	NC_021164.1	Ca_Kabuli_Chr05	38407302	AA	GG	GG	URR	101495140	uncharacterized protein At4g14100-like
SNP_38161_A_38407316	NC_021164.1	Ca_Kabuli_Chr05	38407316	CC	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38162_A_38407331	NC_021164.1	Ca_Kabuli_Chr05	38407331	GG	TT	TT	URR	101495140	uncharacterized protein At4g14100-like
SNP_38163_A_38407349	NC_021164.1	Ca_Kabuli_Chr05	38407349	TT	CC	CC	URR	101495140	uncharacterized protein At4g14100-like
SNP_38164_A_38407362	NC_021164.1	Ca_Kabuli_Chr05	38407362	AA	GG	GG	URR	101495140	uncharacterized protein At4g14100-like
SNP_38165_A_38407397	NC_021164.1	Ca_Kabuli_Chr05	38407397	TT	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38166_A_38407399	NC_021164.1	Ca_Kabuli_Chr05	38407399	GG	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38167_A_38407420	NC_021164.1	Ca_Kabuli_Chr05	38407420	GG	AA	AA	URR	101495140	uncharacterized protein At4g14100-like
SNP_38168_A_38407428	NC_021164.1	Ca_Kabuli_Chr05	38407428	TT	CC	CC	URR	101495140	uncharacterized protein At4g14100-like
SNP_38169_A_38407439	NC_021164.1	Ca_Kabuli_Chr05	38407439	GG	AA	AA	URR	101495140	uncharacterized protein At4g14100-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38170_A_38407532	NC_021164.1	Ca_Kabuli_Chr05	38407532	CC	TT	TT	URR	101495140	uncharacterized protein At4g14100-like
SNP_38171_A_38407630	NC_021164.1	Ca_Kabuli_Chr05	38407630	AA	GG	GG	INTERGENIC		
SNP_38172_A_38425553	NC_021164.1	Ca_Kabuli_Chr05	38425553	CC	TT	TT	INTRON	101500452	uncharacterized LOC101500452
SNP_38173_A_38432411	NC_021164.1	Ca_Kabuli_Chr05	38432411	AA	TT	TT	INTERGENIC		
SNP_38174_A_38432466	NC_021164.1	Ca_Kabuli_Chr05	38432466	TT	GG	GG	INTERGENIC		
SNP_38175_A_38432585	NC_021164.1	Ca_Kabuli_Chr05	38432585	CC	GG	GG	INTERGENIC		
SNP_38176_A_38432627	NC_021164.1	Ca_Kabuli_Chr05	38432627	TT	AA	AA	INTERGENIC		
SNP_38177_A_38432763	NC_021164.1	Ca_Kabuli_Chr05	38432763	TT	CC	CC	INTERGENIC		
SNP_38178_A_38432881	NC_021164.1	Ca_Kabuli_Chr05	38432881	AA	GG	GG	INTERGENIC		
SNP_38179_A_38432936	NC_021164.1	Ca_Kabuli_Chr05	38432936	AA	CC	CC	INTERGENIC		
SNP_38180_A_38432991	NC_021164.1	Ca_Kabuli_Chr05	38432991	CC	TT	TT	INTERGENIC		
SNP_38181_A_38433089	NC_021164.1	Ca_Kabuli_Chr05	38433089	AA	GG	GG	INTERGENIC		
SNP_38182_A_38433195	NC_021164.1	Ca_Kabuli_Chr05	38433195	AA	GG	GG	INTERGENIC		
SNP_38183_A_38433296	NC_021164.1	Ca_Kabuli_Chr05	38433296	TT	CC	CC	INTERGENIC		
SNP_38184_A_38438221	NC_021164.1	Ca_Kabuli_Chr05	38438221	GG	AA	AA	URR	101493219	uncharacterized LOC101493219
SNP_38185_A_38463613	NC_021164.1	Ca_Kabuli_Chr05	38463613	TT	CC	CC	URR	101493854	telomere length regulation protein TEL2 homolog
SNP_38186_A_38465797	NC_021164.1	Ca_Kabuli_Chr05	38465797	TT	CC	CC	DRR	101494384	elongator complex protein 3
SNP_38187_A_38476431	NC_021164.1	Ca_Kabuli_Chr05	38476431	GG	AA	AA	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38188_A_38476563	NC_021164.1	Ca_Kabuli_Chr05	38476563	GG	AA	AA	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38189_A_38476621	NC_021164.1	Ca_Kabuli_Chr05	38476621	GG	TT	TT	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38190_A_38476789	NC_021164.1	Ca_Kabuli_Chr05	38476789	AA	GG	GG	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38191_A_38476801	NC_021164.1	Ca_Kabuli_Chr05	38476801	TT	CC	CC	DRR	101501076	ATP-dependent DNA helicase PIF6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38192_A_38476869	NC_021164.1	Ca_Kabuli_Chr05	38476869	AA	GG	GG	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38193_A_38476879	NC_021164.1	Ca_Kabuli_Chr05	38476879	TT	CC	CC	DRR	101501076	ATP-dependent DNA helicase PIF6-like
SNP_38195_A_38708714	NC_021164.1	Ca_Kabuli_Chr05	38708714	TT	CC	CC	INTERGENIC		
SNP_38197_A_38746928	NC_021164.1	Ca_Kabuli_Chr05	38746928	TT	GG	GG	URR	101500763	alpha/beta hydrolase domain-containing protein 17B
SNP_38198_A_38754040	NC_021164.1	Ca_Kabuli_Chr05	38754040	CC	TT	TT	INTERGENIC		
SNP_38201_A_38755907	NC_021164.1	Ca_Kabuli_Chr05	38755907	TT	CC	CC	INTERGENIC		
SNP_38203_A_38815282	NC_021164.1	Ca_Kabuli_Chr05	38815282	GG	CC	CC	INTERGENIC		
SNP_38204_A_38849197	NC_021164.1	Ca_Kabuli_Chr05	38849197	AA	GG	GG	INTERGENIC		
SNP_38205_A_38853980	NC_021164.1	Ca_Kabuli_Chr05	38853980	TT	CC	CC	DRR	101504821	cytochrome P450 71A1-like
SNP_38207_A_38887857	NC_021164.1	Ca_Kabuli_Chr05	38887857	AA	TT	TT	INTERGENIC		
SNP_38209_A_39040491	NC_021164.1	Ca_Kabuli_Chr05	39040491	TT	CC	CC	URR	101512220	general transcription factor 3C polypeptide 3-like
SNP_38210_A_39055630	NC_021164.1	Ca_Kabuli_Chr05	39055630	AA	GG	GG	INTERGENIC		
SNP_38211_A_39056026	NC_021164.1	Ca_Kabuli_Chr05	39056026	GG	AA	AA	INTERGENIC		
SNP_38212_A_39056134	NC_021164.1	Ca_Kabuli_Chr05	39056134	TT	AA	AA	INTERGENIC		
SNP_38213_A_39056187	NC_021164.1	Ca_Kabuli_Chr05	39056187	TT	CC	CC	INTERGENIC		
SNP_38214_A_39056208	NC_021164.1	Ca_Kabuli_Chr05	39056208	CC	GG	GG	INTERGENIC		
SNP_38215_A_39091905	NC_021164.1	Ca_Kabuli_Chr05	39091905	GG	AA	AA	INTERGENIC		
SNP_38216_A_39118865	NC_021164.1	Ca_Kabuli_Chr05	39118865	AA	CC	CC	INTERGENIC		
SNP_38217_A_39150847	NC_021164.1	Ca_Kabuli_Chr05	39150847	TT	CC	CC	INTERGENIC		
SNP_38218_A_39209713	NC_021164.1	Ca_Kabuli_Chr05	39209713	GG	AA	AA	URR	101515348	FKBP12-interacting protein of 37 kDa-like
SNP_38219_A_39287696	NC_021164.1	Ca_Kabuli_Chr05	39287696	CC	GG	GG	INTERGENIC		
SNP_38220_A_39292578	NC_021164.1	Ca_Kabuli_Chr05	39292578	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38221_A_39327116	NC_021164.1	Ca_Kabuli_Chr05	39327116	CC	TT	TT	INTERGENIC			
SNP_38222_A_39327154	NC_021164.1	Ca_Kabuli_Chr05	39327154	AA	GG	GG	INTERGENIC			
SNP_38223_A_39327180	NC_021164.1	Ca_Kabuli_Chr05	39327180	AA	GG	GG	INTERGENIC			
SNP_38224_A_39327224	NC_021164.1	Ca_Kabuli_Chr05	39327224	TT	CC	CC	INTERGENIC			
SNP_38225_A_39327431	NC_021164.1	Ca_Kabuli_Chr05	39327431	GG	AA	AA	INTERGENIC			
SNP_38226_A_39331732	NC_021164.1	Ca_Kabuli_Chr05	39331732	TT	CC	CC	INTERGENIC			
SNP_38227_A_39335802	NC_021164.1	Ca_Kabuli_Chr05	39335802	CC	TT	TT	INTERGENIC			
SNP_38228_A_39335879	NC_021164.1	Ca_Kabuli_Chr05	39335879	GG	AA	AA	INTERGENIC			
SNP_38229_A_39360190	NC_021164.1	Ca_Kabuli_Chr05	39360190	AA	GG	GG	INTERGENIC			
SNP_38230_A_39369661	NC_021164.1	Ca_Kabuli_Chr05	39369661	GG	AA	AA	INTERGENIC			
SNP_38231_A_39369686	NC_021164.1	Ca_Kabuli_Chr05	39369686	GG	AA	AA	INTERGENIC			
SNP_38232_A_39369937	NC_021164.1	Ca_Kabuli_Chr05	39369937	AA	CC	CC	INTERGENIC			
SNP_38233_A_39370020	NC_021164.1	Ca_Kabuli_Chr05	39370020	GG	AA	AA	INTERGENIC			
SNP_38234_A_39399486	NC_021164.1	Ca_Kabuli_Chr05	39399486	CC	TT	TT	INTERGENIC			
SNP_38235_A_39468566	NC_021164.1	Ca_Kabuli_Chr05	39468566	CC	GG	GG	SYNONYMOUS_CODING	101503635	transcription factor MYB98-like	
SNP_38238_A_39525289	NC_021164.1	Ca_Kabuli_Chr05	39525289	CC	TT	TT	URR	101497757	dof zinc finger protein DOF5.6	
SNP_38239_A_39529379	NC_021164.1	Ca_Kabuli_Chr05	39529379	GG	AA	AA	INTERGENIC			
SNP_38240_A_39530192	NC_021164.1	Ca_Kabuli_Chr05	39530192	AA	GG	GG	INTERGENIC			
SNP_38241_A_39530200	NC_021164.1	Ca_Kabuli_Chr05	39530200	GG	CC	CC	INTERGENIC			
SNP_38242_A_39530251	NC_021164.1	Ca_Kabuli_Chr05	39530251	AA	CC	CC	INTERGENIC			
SNP_38243_A_39530323	NC_021164.1	Ca_Kabuli_Chr05	39530323	TT	CC	CC	INTERGENIC			
SNP_38244_A_39530658	NC_021164.1	Ca_Kabuli_Chr05	39530658	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38245_A_39530670	NC_021164.1	Ca_Kabuli_Chr05	39530670	TT	CC	CC	INTERGENIC		
SNP_38247_A_39576384	NC_021164.1	Ca_Kabuli_Chr05	39576384	AA	GG	GG	INTRON	101498080	serine/threonine-protein kinase ATM
SNP_38248_A_39611887	NC_021164.1	Ca_Kabuli_Chr05	39611887	CC	TT	TT	INTRON	101498080	serine/threonine-protein kinase ATM
SNP_38249_A_39707201	NC_021164.1	Ca_Kabuli_Chr05	39707201	AA	GG	GG	DRR	101500349	CASP-like protein 4A3
SNP_38250_A_39724546	NC_021164.1	Ca_Kabuli_Chr05	39724546	GG	AA	AA	DRR	101505561	cation channel sperm-associated protein 2-like
SNP_38251_A_39742030	NC_021164.1	Ca_Kabuli_Chr05	39742030	CC	TT	TT	INTERGENIC		
SNP_38252_A_39749057	NC_021164.1	Ca_Kabuli_Chr05	39749057	CC	TT	TT	INTERGENIC		
SNP_38254_A_39832617	NC_021164.1	Ca_Kabuli_Chr05	39832617	TT	CC	CC	URR	101502983	probable alpha,alpha-trehalose-phosphate synthase [UDP-forming] 9
SNP_38255_A_39835336	NC_021164.1	Ca_Kabuli_Chr05	39835336	CC	TT	TT	INTERGENIC		
SNP_38257_A_39872859	NC_021164.1	Ca_Kabuli_Chr05	39872859	TT	CC	CC	URR	101504609	nucleobase-ascorbate transporter 6
SNP_38258_A_39873433	NC_021164.1	Ca_Kabuli_Chr05	39873433	TT	CC	CC	URR	101504609	nucleobase-ascorbate transporter 6
SNP_38259_A_39873456	NC_021164.1	Ca_Kabuli_Chr05	39873456	AA	GG	GG	URR	101504609	nucleobase-ascorbate transporter 6
SNP_38260_A_39873513	NC_021164.1	Ca_Kabuli_Chr05	39873513	AA	TT	TT	URR	101504609	nucleobase-ascorbate transporter 6
SNP_38261_A_39884387	NC_021164.1	Ca_Kabuli_Chr05	39884387	CC	TT	TT	URR	101505135	uncharacterized LOC101505135
SNP_38262_A_39919266	NC_021164.1	Ca_Kabuli_Chr05	39919266	GG	AA	AA	INTERGENIC		
SNP_38264_A_39943298	NC_021164.1	Ca_Kabuli_Chr05	39943298	TT	CC	CC	INTERGENIC		
SNP_38266_A_40053325	NC_021164.1	Ca_Kabuli_Chr05	40053325	AA	GG	GG	INTERGENIC		
SNP_38267_A_40057933	NC_021164.1	Ca_Kabuli_Chr05	40057933	TT	GG	GG	INTRON	101511136	L-ascorbate oxidase
SNP_38268_A_40063078	NC_021164.1	Ca_Kabuli_Chr05	40063078	AA	CC	CC	URR	101511136	L-ascorbate oxidase
SNP_38269_A_40090170	NC_021164.1	Ca_Kabuli_Chr05	40090170	GG	CC	CC	INTERGENIC		
SNP_38271_A_40129873	NC_021164.1	Ca_Kabuli_Chr05	40129873	TT	CC	CC	INTERGENIC		
SNP_38274_A_40256857	NC_021164.1	Ca_Kabuli_Chr05	40256857	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38276_A_40290436	NC_021164.1	Ca_Kabuli_Chr05	40290436	TT	CC	CC	DRR	101491255	Unknown function
SNP_38277_A_40308948	NC_021164.1	Ca_Kabuli_Chr05	40308948	TT	CC	CC	INTERGENIC		
SNP_38278_A_40308989	NC_021164.1	Ca_Kabuli_Chr05	40308989	AA	GG	GG	INTERGENIC		
SNP_38279_A_40316348	NC_021164.1	Ca_Kabuli_Chr05	40316348	AA	GG	GG	INTRON	101491883	linoleate 13S-lipoxygenase 2-1, chloroplastic-like
SNP_38280_A_40318198	NC_021164.1	Ca_Kabuli_Chr05	40318198	TT	CC	CC	INTRON	101491883	linoleate 13S-lipoxygenase 2-1, chloroplastic-like
SNP_38281_A_40328636	NC_021164.1	Ca_Kabuli_Chr05	40328636	AA	TT	TT	INTERGENIC		
SNP_38282_A_40328951	NC_021164.1	Ca_Kabuli_Chr05	40328951	CC	TT	TT	INTERGENIC		
SNP_38283_A_40329282	NC_021164.1	Ca_Kabuli_Chr05	40329282	AA	CC	CC	INTERGENIC		
SNP_38284_A_40329311	NC_021164.1	Ca_Kabuli_Chr05	40329311	CC	TT	TT	INTERGENIC		
SNP_38285_A_40330533	NC_021164.1	Ca_Kabuli_Chr05	40330533	GG	AA	AA	INTERGENIC		
SNP_38286_A_40330948	NC_021164.1	Ca_Kabuli_Chr05	40330948	GG	TT	TT	INTERGENIC		
SNP_38287_A_40330958	NC_021164.1	Ca_Kabuli_Chr05	40330958	CC	GG	GG	INTERGENIC		
SNP_38288_A_40332092	NC_021164.1	Ca_Kabuli_Chr05	40332092	AA	GG	GG	INTERGENIC		
SNP_38289_A_40332104	NC_021164.1	Ca_Kabuli_Chr05	40332104	AA	GG	GG	INTERGENIC		
SNP_38290_A_40332106	NC_021164.1	Ca_Kabuli_Chr05	40332106	AA	CC	CC	INTERGENIC		
SNP_38291_A_40332449	NC_021164.1	Ca_Kabuli_Chr05	40332449	TT	CC	CC	INTERGENIC		
SNP_38292_A_40354299	NC_021164.1	Ca_Kabuli_Chr05	40354299	CC	TT	TT	INTERGENIC		
SNP_38293_A_40354335	NC_021164.1	Ca_Kabuli_Chr05	40354335	AA	GG	GG	INTERGENIC		
SNP_38295_A_40436116	NC_021164.1	Ca_Kabuli_Chr05	40436116	TT	CC	CC	INTERGENIC		
SNP_38298_A_40545281	NC_021164.1	Ca_Kabuli_Chr05	40545281	CC	TT	TT	INTRON	101511350	ribonuclease 3-like protein 3
SNP_38299_A_40600636	NC_021164.1	Ca_Kabuli_Chr05	40600636	AA	GG	GG	INTERGENIC		
SNP_38300_A_40600651	NC_021164.1	Ca_Kabuli_Chr05	40600651	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38301_A_40604084	NC_021164.1	Ca_Kabuli_Chr05	40604084	AA	GG	GG	INTERGENIC		
SNP_38302_A_40604086	NC_021164.1	Ca_Kabuli_Chr05	40604086	CC	GG	GG	INTERGENIC		
SNP_38303_A_40652461	NC_021164.1	Ca_Kabuli_Chr05	40652461	TT	CC	CC	URR	101503532	endoglucanase 11
SNP_38305_A_40780343	NC_021164.1	Ca_Kabuli_Chr05	40780343	GG	AA	AA	INTRON	101508773	HEAT repeat-containing protein 6
SNP_38306_A_40780652	NC_021164.1	Ca_Kabuli_Chr05	40780652	GG	AA	AA	INTRON	101508773	HEAT repeat-containing protein 6
SNP_38307_A_40789368	NC_021164.1	Ca_Kabuli_Chr05	40789368	TT	GG	GG	INTRON	101508773	HEAT repeat-containing protein 6
SNP_38308_A_40819925	NC_021164.1	Ca_Kabuli_Chr05	40819925	GG	AA	AA	INTERGENIC		
SNP_38309_A_40858034	NC_021164.1	Ca_Kabuli_Chr05	40858034	GG	AA	AA	INTERGENIC		
SNP_38310_A_40858046	NC_021164.1	Ca_Kabuli_Chr05	40858046	AA	GG	GG	INTERGENIC		
SNP_38311_A_40858054	NC_021164.1	Ca_Kabuli_Chr05	40858054	GG	AA	AA	INTERGENIC		
SNP_38312_A_40858055	NC_021164.1	Ca_Kabuli_Chr05	40858055	TT	AA	AA	INTERGENIC		
SNP_38313_A_40858062	NC_021164.1	Ca_Kabuli_Chr05	40858062	AA	CC	CC	INTERGENIC		
SNP_38314_A_40907708	NC_021164.1	Ca_Kabuli_Chr05	40907708	AA	TT	TT	DRR	101512545	bidirectional sugar transporter SWEET7-like
SNP_38315_A_40907709	NC_021164.1	Ca_Kabuli_Chr05	40907709	AA	CC	CC	DRR	101512545	bidirectional sugar transporter SWEET7-like
SNP_38316_A_40929783	NC_021164.1	Ca_Kabuli_Chr05	40929783	TT	AA	AA	INTERGENIC		
SNP_38317_A_40935240	NC_021164.1	Ca_Kabuli_Chr05	40935240	TT	CC	CC	INTERGENIC		
SNP_38321_A_40991313	NC_021164.1	Ca_Kabuli_Chr05	40991313	CC	TT	TT	INTERGENIC		
SNP_38322_A_40991918	NC_021164.1	Ca_Kabuli_Chr05	40991918	GG	AA	AA	INTERGENIC		
SNP_38323_A_41063749	NC_021164.1	Ca_Kabuli_Chr05	41063749	AA	GG	GG	INTERGENIC		
SNP_38327_A_41191083	NC_021164.1	Ca_Kabuli_Chr05	41191083	AA	CC	CC	INTERGENIC		
SNP_38328_A_41191126	NC_021164.1	Ca_Kabuli_Chr05	41191126	GG	AA	AA	INTERGENIC		
SNP_38329_A_41191129	NC_021164.1	Ca_Kabuli_Chr05	41191129	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38330_A_41191153	NC_021164.1	Ca_Kabuli_Chr05	41191153	GG	CC	CC	INTERGENIC		
SNP_38331_A_41191156	NC_021164.1	Ca_Kabuli_Chr05	41191156	AA	GG	GG	INTERGENIC		
SNP_38332_A_41191469	NC_021164.1	Ca_Kabuli_Chr05	41191469	AA	CC	CC	INTERGENIC		
SNP_38334_A_41227201	NC_021164.1	Ca_Kabuli_Chr05	41227201	TT	CC	CC	DRR	101496664	uncharacterized LOC101496664
SNP_38335_A_41227203	NC_021164.1	Ca_Kabuli_Chr05	41227203	AA	CC	CC	DRR	101496664	uncharacterized LOC101496664
SNP_38337_A_41279896	NC_021164.1	Ca_Kabuli_Chr05	41279896	GG	AA	AA	INTERGENIC		
SNP_38338_A_41319216	NC_021164.1	Ca_Kabuli_Chr05	41319216	CC	TT	TT	INTERGENIC		
SNP_38339_A_41334027	NC_021164.1	Ca_Kabuli_Chr05	41334027	GG	CC	CC	INTERGENIC		
SNP_38340_A_41358333	NC_021164.1	Ca_Kabuli_Chr05	41358333	CC	TT	TT	INTERGENIC		
SNP_38341_A_41422942	NC_021164.1	Ca_Kabuli_Chr05	41422942	CC	TT	TT	URR	101490072	Unknown function
SNP_38342_A_41423192	NC_021164.1	Ca_Kabuli_Chr05	41423192	GG	AA	AA	URR	101490072	Unknown function
SNP_38343_A_41423210	NC_021164.1	Ca_Kabuli_Chr05	41423210	TT	CC	CC	URR	101490072	Unknown function
SNP_38344_A_41428708	NC_021164.1	Ca_Kabuli_Chr05	41428708	CC	TT	TT	INTERGENIC		
SNP_38345_A_41428757	NC_021164.1	Ca_Kabuli_Chr05	41428757	AA	TT	TT	INTERGENIC		
SNP_38346_A_41428873	NC_021164.1	Ca_Kabuli_Chr05	41428873	AA	GG	GG	INTERGENIC		
SNP_38347_A_41428877	NC_021164.1	Ca_Kabuli_Chr05	41428877	TT	AA	AA	INTERGENIC		
SNP_38348_A_41428996	NC_021164.1	Ca_Kabuli_Chr05	41428996	AA	GG	GG	INTERGENIC		
SNP_38349_A_41429016	NC_021164.1	Ca_Kabuli_Chr05	41429016	TT	AA	AA	INTERGENIC		
SNP_38350_A_41429097	NC_021164.1	Ca_Kabuli_Chr05	41429097	AA	GG	GG	INTERGENIC		
SNP_38351_A_41436544	NC_021164.1	Ca_Kabuli_Chr05	41436544	AA	GG	GG	INTERGENIC		
SNP_38352_A_41438070	NC_021164.1	Ca_Kabuli_Chr05	41438070	GG	CC	CC	INTERGENIC		
SNP_38353_A_41438099	NC_021164.1	Ca_Kabuli_Chr05	41438099	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38356_A_41463557	NC_021164.1	Ca_Kabuli_Chr05	41463557	TT	CC	CC	INTRON	101501610	transcriptional adapter ADA2
SNP_38357_A_41463574	NC_021164.1	Ca_Kabuli_Chr05	41463574	TT	CC	CC	INTRON	101501610	transcriptional adapter ADA2
SNP_38358_A_41463600	NC_021164.1	Ca_Kabuli_Chr05	41463600	CC	AA	AA	INTRON	101501610	transcriptional adapter ADA2
SNP_38359_A_41463788	NC_021164.1	Ca_Kabuli_Chr05	41463788	TT	GG	GG	INTRON	101501610	transcriptional adapter ADA2
SNP_38361_A_41467616	NC_021164.1	Ca_Kabuli_Chr05	41467616	CC	AA	AA	INTRON	101501610	transcriptional adapter ADA2
SNP_38364_A_41467933	NC_021164.1	Ca_Kabuli_Chr05	41467933	TT	AA	AA	INTRON	101501610	transcriptional adapter ADA2
SNP_38365_A_41467937	NC_021164.1	Ca_Kabuli_Chr05	41467937	CC	TT	TT	INTRON	101501610	transcriptional adapter ADA2
SNP_38366_A_41468132	NC_021164.1	Ca_Kabuli_Chr05	41468132	AA	GG	GG	INTRON	101501610	transcriptional adapter ADA2
SNP_38367_A_41468583	NC_021164.1	Ca_Kabuli_Chr05	41468583	AA	TT	TT	INTRON	101501610	transcriptional adapter ADA2
SNP_38368_A_41468871	NC_021164.1	Ca_Kabuli_Chr05	41468871	GG	AA	AA	INTRON	101501610	transcriptional adapter ADA2
SNP_38369_A_41477660	NC_021164.1	Ca_Kabuli_Chr05	41477660	TT	CC	CC	INTRON	101501610	transcriptional adapter ADA2
SNP_38370_A_41477692	NC_021164.1	Ca_Kabuli_Chr05	41477692	TT	GG	GG	INTRON	101501610	transcriptional adapter ADA2
SNP_38372_A_41586247	NC_021164.1	Ca_Kabuli_Chr05	41586247	TT	CC	CC	URR	101494184	uncharacterized LOC101494184
SNP_38373_A_41591868	NC_021164.1	Ca_Kabuli_Chr05	41591868	AA	GG	GG	INTERGENIC		
SNP_38375_A_41613728	NC_021164.1	Ca_Kabuli_Chr05	41613728	CC	GG	GG	INTERGENIC		
SNP_38377_A_41643697	NC_021164.1	Ca_Kabuli_Chr05	41643697	TT	AA	AA	INTERGENIC		
SNP_38378_A_41644340	NC_021164.1	Ca_Kabuli_Chr05	41644340	AA	GG	GG	INTERGENIC		
SNP_38379_A_41677966	NC_021164.1	Ca_Kabuli_Chr05	41677966	TT	GG	GG	INTRON	101496222	protein argonaute 16-like
SNP_38380_A_41677967	NC_021164.1	Ca_Kabuli_Chr05	41677967	AA	TT	TT	INTRON	101496222	protein argonaute 16-like
SNP_38381_A_41677979	NC_021164.1	Ca_Kabuli_Chr05	41677979	CC	AA	AA	NON_SYNONYMOUS_CODING	101496222	protein argonaute 16-like
SNP_38383_A_41708896	NC_021164.1	Ca_Kabuli_Chr05	41708896	GG	AA	AA	DRR	101498291	protein BREAST CANCER SUSCEPTIBILITY 2 homolog B-like
SNP_38384_A_41727574	NC_021164.1	Ca_Kabuli_Chr05	41727574	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38385_A_41778523	NC_021164.1	Ca_Kabuli_Chr05	41778523	AA	GG	GG	INTERGENIC		
SNP_38386_A_41794813	NC_021164.1	Ca_Kabuli_Chr05	41794813	TT	GG	GG	INTERGENIC		
SNP_38387_A_41795075	NC_021164.1	Ca_Kabuli_Chr05	41795075	CC	TT	TT	INTERGENIC		
SNP_38388_A_41795326	NC_021164.1	Ca_Kabuli_Chr05	41795326	AA	GG	GG	INTERGENIC		
SNP_38389_A_41795560	NC_021164.1	Ca_Kabuli_Chr05	41795560	CC	GG	GG	INTERGENIC		
SNP_38390_A_41795694	NC_021164.1	Ca_Kabuli_Chr05	41795694	GG	AA	AA	INTERGENIC		
SNP_38392_A_41797922	NC_021164.1	Ca_Kabuli_Chr05	41797922	GG	AA	AA	DRR	101500350	titin-like
SNP_38393_A_41800062	NC_021164.1	Ca_Kabuli_Chr05	41800062	AA	GG	GG	URR	101500350	titin-like
SNP_38394_A_41801270	NC_021164.1	Ca_Kabuli_Chr05	41801270	TT	CC	CC	URR	101500350	titin-like
SNP_38395_A_41812775	NC_021164.1	Ca_Kabuli_Chr05	41812775	GG	TT	TT	INTERGENIC		
SNP_38396_A_41813446	NC_021164.1	Ca_Kabuli_Chr05	41813446	AA	TT	TT	DRR	101505136	uncharacterized LOC101505136
SNP_38399_A_41896537	NC_021164.1	Ca_Kabuli_Chr05	41896537	CC	TT	TT	URR	101507827	glucan endo-1,3-beta-glucosidase 4-like
SNP_38400_A_41953245	NC_021164.1	Ca_Kabuli_Chr05	41953245	AA	GG	GG	INTERGENIC		
SNP_38401_A_41953253	NC_021164.1	Ca_Kabuli_Chr05	41953253	TT	CC	CC	INTERGENIC		
SNP_38402_A_41992570	NC_021164.1	Ca_Kabuli_Chr05	41992570	GG	AA	AA	INTERGENIC		
SNP_38403_A_42006680	NC_021164.1	Ca_Kabuli_Chr05	42006680	AA	GG	GG	URR	101512321	TBC1 domain family member 13-like
SNP_38404_A_42014869	NC_021164.1	Ca_Kabuli_Chr05	42014869	AA	TT	TT	DRR	101514155	uncharacterized LOC101514155
SNP_38405_A_42071808	NC_021164.1	Ca_Kabuli_Chr05	42071808	CC	TT	TT	INTERGENIC		
SNP_38406_A_42096054	NC_021164.1	Ca_Kabuli_Chr05	42096054	TT	AA	AA	INTERGENIC		
SNP_38408_A_42241279	NC_021164.1	Ca_Kabuli_Chr05	42241279	AA	TT	TT	INTERGENIC		
SNP_38409_A_42241290	NC_021164.1	Ca_Kabuli_Chr05	42241290	TT	CC	CC	INTERGENIC		
SNP_38410_A_42315059	NC_021164.1	Ca_Kabuli_Chr05	42315059	TT	CC	CC	URR	101495466	bifunctional aspartokinase/homoserine dehydrogenase 2, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38411_A_42326427	NC_021164.1	Ca_Kabuli_Chr05	42326427	AA	GG	GG	INTERGENIC		
SNP_38412_A_42342052	NC_021164.1	Ca_Kabuli_Chr05	42342052	AA	TT	TT	INTERGENIC		
SNP_38413_A_42392616	NC_021164.1	Ca_Kabuli_Chr05	42392616	AA	GG	GG	INTERGENIC		
SNP_38414_A_42392768	NC_021164.1	Ca_Kabuli_Chr05	42392768	AA	TT	TT	INTERGENIC		
SNP_38415_A_42407559	NC_021164.1	Ca_Kabuli_Chr05	42407559	AA	GG	GG	INTERGENIC		
SNP_38418_A_42584544	NC_021164.1	Ca_Kabuli_Chr05	42584544	TT	CC	CC	DRR	101505791	ranBP2-type zinc finger protein At1g67325
SNP_38420_A_42894438	NC_021164.1	Ca_Kabuli_Chr05	42894438	TT	AA	AA	URR	101491257	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_38421_A_42917204	NC_021164.1	Ca_Kabuli_Chr05	42917204	AA	GG	GG	INTERGENIC		
SNP_38423_A_43050871	NC_021164.1	Ca_Kabuli_Chr05	43050871	AA	GG	GG	DRR	101497963	telomere-associated protein RIF1-like
SNP_38425_A_43074539	NC_021164.1	Ca_Kabuli_Chr05	43074539	GG	AA	AA	INTERGENIC		
SNP_38428_A_43367091	NC_021164.1	Ca_Kabuli_Chr05	43367091	AA	CC	CC	INTRON	101490943	uncharacterized LOC101490943
SNP_38429_A_43426338	NC_021164.1	Ca_Kabuli_Chr05	43426338	GG	AA	AA	URR	101488989	tRNA (cytosine(34)-C(5))-methyltransferase-like
SNP_38430_A_43481046	NC_021164.1	Ca_Kabuli_Chr05	43481046	GG	AA	AA	URR	101491778	ubiquitin carboxyl-terminal hydrolase 4-like
SNP_38431_A_43481069	NC_021164.1	Ca_Kabuli_Chr05	43481069	TT	CC	CC	URR	101491778	ubiquitin carboxyl-terminal hydrolase 4-like
SNP_38432_A_43481098	NC_021164.1	Ca_Kabuli_Chr05	43481098	AA	CC	CC	URR	101491778	ubiquitin carboxyl-terminal hydrolase 4-like
SNP_38433_A_43481263	NC_021164.1	Ca_Kabuli_Chr05	43481263	CC	AA	AA	URR	101491778	ubiquitin carboxyl-terminal hydrolase 4-like
SNP_38434_A_43489120	NC_021164.1	Ca_Kabuli_Chr05	43489120	GG	AA	AA	URR	101492100	ubiquitin carboxyl-terminal hydrolase 4-like
SNP_38435_A_43574420	NC_021164.1	Ca_Kabuli_Chr05	43574420	TT	AA	AA	INTERGENIC		
SNP_38436_A_43599709	NC_021164.1	Ca_Kabuli_Chr05	43599709	CC	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_38437_A_43614121	NC_021164.1	Ca_Kabuli_Chr05	43614121	AA	TT	TT	INTERGENIC		
SNP_38438_A_43614878	NC_021164.1	Ca_Kabuli_Chr05	43614878	TT	GG	GG	INTERGENIC		
SNP_38439_A_43628991	NC_021164.1	Ca_Kabuli_Chr05	43628991	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38440_A_43655801	NC_021164.1	Ca_Kabuli_Chr05	43655801	AA	TT	TT	INTERGENIC		
SNP_38441_A_43664938	NC_021164.1	Ca_Kabuli_Chr05	43664938	CC	AA	AA	INTERGENIC		
SNP_38442_A_43706343	NC_021164.1	Ca_Kabuli_Chr05	43706343	AA	GG	GG	INTRON	101491887	early nodulin-70-like
SNP_38444_A_43734272	NC_021164.1	Ca_Kabuli_Chr05	43734272	GG	TT	TT	INTERGENIC		
SNP_38445_A_43871751	NC_021164.1	Ca_Kabuli_Chr05	43871751	AA	TT	TT	URR	101506327	uncharacterized LOC101506327
SNP_38446_A_43871752	NC_021164.1	Ca_Kabuli_Chr05	43871752	AA	CC	CC	URR	101506327	uncharacterized LOC101506327
SNP_38447_A_43904726	NC_021164.1	Ca_Kabuli_Chr05	43904726	TT	CC	CC	INTERGENIC		
SNP_38448_A_43904849	NC_021164.1	Ca_Kabuli_Chr05	43904849	TT	CC	CC	INTERGENIC		
SNP_38449_A_43904871	NC_021164.1	Ca_Kabuli_Chr05	43904871	TT	CC	CC	INTERGENIC		
SNP_38450_A_43904941	NC_021164.1	Ca_Kabuli_Chr05	43904941	TT	GG	GG	INTERGENIC		
SNP_38451_A_43905103	NC_021164.1	Ca_Kabuli_Chr05	43905103	TT	CC	CC	INTERGENIC		
SNP_38452_A_43905233	NC_021164.1	Ca_Kabuli_Chr05	43905233	TT	CC	CC	URR	101507932	Unknown function
SNP_38453_A_43905274	NC_021164.1	Ca_Kabuli_Chr05	43905274	TT	AA	AA	URR	101507932	Unknown function
SNP_38454_A_43905358	NC_021164.1	Ca_Kabuli_Chr05	43905358	AA	GG	GG	URR	101507932	Unknown function
SNP_38455_A_43918801	NC_021164.1	Ca_Kabuli_Chr05	43918801	AA	CC	CC	INTERGENIC		
SNP_38456_A_43918828	NC_021164.1	Ca_Kabuli_Chr05	43918828	GG	TT	TT	INTERGENIC		
SNP_38457_A_43918840	NC_021164.1	Ca_Kabuli_Chr05	43918840	TT	AA	AA	INTERGENIC		
SNP_38458_A_43918865	NC_021164.1	Ca_Kabuli_Chr05	43918865	AA	TT	TT	INTERGENIC		
SNP_38459_A_43918874	NC_021164.1	Ca_Kabuli_Chr05	43918874	GG	AA	AA	INTERGENIC		
SNP_38460_A_43919009	NC_021164.1	Ca_Kabuli_Chr05	43919009	CC	TT	TT	INTERGENIC		
SNP_38461_A_43919028	NC_021164.1	Ca_Kabuli_Chr05	43919028	AA	GG	GG	INTERGENIC		
SNP_38462_A_43919760	NC_021164.1	Ca_Kabuli_Chr05	43919760	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38463_A_43920706	NC_021164.1	Ca_Kabuli_Chr05	43920706	TT	CC	CC	INTERGENIC			
SNP_38464_A_43920732	NC_021164.1	Ca_Kabuli_Chr05	43920732	TT	CC	CC	INTERGENIC			
SNP_38465_A_43920808	NC_021164.1	Ca_Kabuli_Chr05	43920808	AA	CC	CC	INTERGENIC			
SNP_38466_A_43920809	NC_021164.1	Ca_Kabuli_Chr05	43920809	CC	TT	TT	INTERGENIC			
SNP_38467_A_43920853	NC_021164.1	Ca_Kabuli_Chr05	43920853	TT	CC	CC	INTERGENIC			
SNP_38468_A_43920890	NC_021164.1	Ca_Kabuli_Chr05	43920890	TT	AA	AA	INTERGENIC			
SNP_38469_A_43921026	NC_021164.1	Ca_Kabuli_Chr05	43921026	CC	TT	TT	INTERGENIC			
SNP_38470_A_43921030	NC_021164.1	Ca_Kabuli_Chr05	43921030	CC	AA	AA	INTERGENIC			
SNP_38471_A_43921062	NC_021164.1	Ca_Kabuli_Chr05	43921062	TT	AA	AA	INTERGENIC			
SNP_38472_A_43921068	NC_021164.1	Ca_Kabuli_Chr05	43921068	TT	CC	CC	INTERGENIC			
SNP_38474_A_43921172	NC_021164.1	Ca_Kabuli_Chr05	43921172	CC	TT	TT	INTERGENIC			
SNP_38475_A_44091932	NC_021164.1	Ca_Kabuli_Chr05	44091932	GG	AA	AA	INTERGENIC			
SNP_38476_A_44170131	NC_021164.1	Ca_Kabuli_Chr05	44170131	AA	TT	TT	URR	101489317	metal transporter Nramp5-like	
SNP_38477_A_44177885	NC_021164.1	Ca_Kabuli_Chr05	44177885	TT	CC	CC	INTERGENIC			
SNP_38478_A_44211628	NC_021164.1	Ca_Kabuli_Chr05	44211628	CC	AA	AA	INTERGENIC			
SNP_38479_A_44211645	NC_021164.1	Ca_Kabuli_Chr05	44211645	TT	CC	CC	INTERGENIC			
SNP_38480_A_44211648	NC_021164.1	Ca_Kabuli_Chr05	44211648	CC	TT	TT	INTERGENIC			
SNP_38481_A_44211667	NC_021164.1	Ca_Kabuli_Chr05	44211667	GG	AA	AA	INTERGENIC			
SNP_38482_A_44211673	NC_021164.1	Ca_Kabuli_Chr05	44211673	AA	GG	GG	INTERGENIC			
SNP_38483_A_44211701	NC_021164.1	Ca_Kabuli_Chr05	44211701	TT	GG	GG	INTERGENIC			
SNP_38484_A_44211706	NC_021164.1	Ca_Kabuli_Chr05	44211706	AA	GG	GG	INTERGENIC			
SNP_38486_A_44592006	NC_021164.1	Ca_Kabuli_Chr05	44592006	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38487_A_44592007	NC_021164.1	Ca_Kabuli_Chr05	44592007	AA	GG	GG	INTERGENIC			
SNP_38488_A_44592012	NC_021164.1	Ca_Kabuli_Chr05	44592012	TT	AA	AA	INTERGENIC			
SNP_38489_A_44592021	NC_021164.1	Ca_Kabuli_Chr05	44592021	GG	AA	AA	INTERGENIC			
SNP_38490_A_44592097	NC_021164.1	Ca_Kabuli_Chr05	44592097	CC	AA	AA	INTERGENIC			
SNP_38491_A_44592121	NC_021164.1	Ca_Kabuli_Chr05	44592121	TT	GG	GG	INTERGENIC			
SNP_38492_A_44596762	NC_021164.1	Ca_Kabuli_Chr05	44596762	TT	AA	AA	INTERGENIC			
SNP_38493_A_44596763	NC_021164.1	Ca_Kabuli_Chr05	44596763	TT	AA	AA	INTERGENIC			
SNP_38495_A_44596823	NC_021164.1	Ca_Kabuli_Chr05	44596823	TT	CC	CC	INTERGENIC			
SNP_38496_A_44597003	NC_021164.1	Ca_Kabuli_Chr05	44597003	CC	TT	TT	INTERGENIC			
SNP_38498_A_44597163	NC_021164.1	Ca_Kabuli_Chr05	44597163	TT	AA	AA	INTERGENIC			
SNP_38499_A_44597168	NC_021164.1	Ca_Kabuli_Chr05	44597168	CC	TT	TT	INTERGENIC			
SNP_38500_A_44597207	NC_021164.1	Ca_Kabuli_Chr05	44597207	TT	CC	CC	INTERGENIC			
SNP_38501_A_44597222	NC_021164.1	Ca_Kabuli_Chr05	44597222	TT	CC	CC	INTERGENIC			
SNP_38502_A_44728487	NC_021164.1	Ca_Kabuli_Chr05	44728487	AA	TT	TT	INTERGENIC			
SNP_38503_A_44744513	NC_021164.1	Ca_Kabuli_Chr05	44744513	AA	TT	TT	INTRON	101513069	transcription factor MYB44-like	
SNP_38504_A_44775282	NC_021164.1	Ca_Kabuli_Chr05	44775282	TT	CC	CC	URR	101513937	transcriptional corepressor SEUSS-like	
SNP_38505_A_44844309	NC_021164.1	Ca_Kabuli_Chr05	44844309	AA	GG	GG	DRR	101488883	alcohol dehydrogenase 1	
SNP_38506_A_44906511	NC_021164.1	Ca_Kabuli_Chr05	44906511	TT	CC	CC	URR	101491888	WAT1-related protein At3g28050-like	
SNP_38507_A_44947416	NC_021164.1	Ca_Kabuli_Chr05	44947416	CC	TT	TT	DRR	101494912	dof zinc finger protein DOF5.1	
SNP_38508_A_45000614	NC_021164.1	Ca_Kabuli_Chr05	45000614	CC	AA	AA	INTERGENIC			
SNP_38509_A_45086457	NC_021164.1	Ca_Kabuli_Chr05	45086457	AA	GG	GG	INTERGENIC			
SNP_38510_A_45086611	NC_021164.1	Ca_Kabuli_Chr05	45086611	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38511_A_45086818	NC_021164.1	Ca_Kabuli_Chr05	45086818	CC	TT	TT	INTERGENIC			
SNP_38513_A_45087028	NC_021164.1	Ca_Kabuli_Chr05	45087028	CC	TT	TT	INTERGENIC			
SNP_38514_A_45094142	NC_021164.1	Ca_Kabuli_Chr05	45094142	GG	AA	AA	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38515_A_45094172	NC_021164.1	Ca_Kabuli_Chr05	45094172	AA	GG	GG	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38516_A_45094175	NC_021164.1	Ca_Kabuli_Chr05	45094175	AA	CC	CC	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38517_A_45094248	NC_021164.1	Ca_Kabuli_Chr05	45094248	AA	GG	GG	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38518_A_45094324	NC_021164.1	Ca_Kabuli_Chr05	45094324	TT	AA	AA	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38519_A_45094365	NC_021164.1	Ca_Kabuli_Chr05	45094365	CC	TT	TT	URR	101499800		bidirectional sugar transporter SWEET3-like
SNP_38520_A_45096025	NC_021164.1	Ca_Kabuli_Chr05	45096025	GG	AA	AA	INTERGENIC			
SNP_38521_A_45096272	NC_021164.1	Ca_Kabuli_Chr05	45096272	GG	AA	AA	INTERGENIC			
SNP_38522_A_45097448	NC_021164.1	Ca_Kabuli_Chr05	45097448	GG	AA	AA	INTERGENIC			
SNP_38523_A_45097741	NC_021164.1	Ca_Kabuli_Chr05	45097741	AA	CC	CC	INTERGENIC			
SNP_38524_A_45097789	NC_021164.1	Ca_Kabuli_Chr05	45097789	TT	AA	AA	INTERGENIC			
SNP_38526_A_45103103	NC_021164.1	Ca_Kabuli_Chr05	45103103	GG	AA	AA	INTERGENIC			
SNP_38527_A_45140212	NC_021164.1	Ca_Kabuli_Chr05	45140212	TT	CC	CC	INTERGENIC			
SNP_38528_A_45235849	NC_021164.1	Ca_Kabuli_Chr05	45235849	CC	TT	TT	DRR	101505237		uncharacterized LOC101505237
SNP_38529_A_45257316	NC_021164.1	Ca_Kabuli_Chr05	45257316	GG	TT	TT	INTRON	101506103		splicing factor 3A subunit 3
SNP_38530_A_45338485	NC_021164.1	Ca_Kabuli_Chr05	45338485	TT	AA	AA	INTRON	101508247		probable pectinesterase/pectinesterase inhibitor 34
SNP_38531_A_45401902	NC_021164.1	Ca_Kabuli_Chr05	45401902	TT	GG	GG	URR	101510819		ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
SNP_38533_A_45471185	NC_021164.1	Ca_Kabuli_Chr05	45471185	TT	CC	CC	URR	101515573		protein RKD4
SNP_38535_A_45530867	NC_021164.1	Ca_Kabuli_Chr05	45530867	TT	CC	CC	URR	101491684		importin subunit beta-1
SNP_38536_A_45574965	NC_021164.1	Ca_Kabuli_Chr05	45574965	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38537_A_45584558	NC_021164.1	Ca_Kabuli_Chr05	45584558	TT	CC	CC	INTERGENIC		
SNP_38538_A_45612646	NC_021164.1	Ca_Kabuli_Chr05	45612646	TT	CC	CC	INTERGENIC		
SNP_38539_A_45750181	NC_021164.1	Ca_Kabuli_Chr05	45750181	CC	GG	GG	INTRON	101501393	probable 6-phosphogluconolactonase 5, chloroplastic
SNP_38540_A_45750222	NC_021164.1	Ca_Kabuli_Chr05	45750222	AA	GG	GG	INTRON	101501393	probable 6-phosphogluconolactonase 5, chloroplastic
SNP_38541_A_45750360	NC_021164.1	Ca_Kabuli_Chr05	45750360	TT	CC	CC	INTRON	101501393	probable 6-phosphogluconolactonase 5, chloroplastic
SNP_38542_A_45778248	NC_021164.1	Ca_Kabuli_Chr05	45778248	AA	GG	GG	INTERGENIC		
SNP_38543_A_45801199	NC_021164.1	Ca_Kabuli_Chr05	45801199	AA	CC	CC	INTERGENIC		
SNP_38544_A_45821193	NC_021164.1	Ca_Kabuli_Chr05	45821193	AA	TT	TT	INTERGENIC		
SNP_38545_A_45929658	NC_021164.1	Ca_Kabuli_Chr05	45929658	GG	AA	AA	URR	101507727	uncharacterized LOC101507727
SNP_38547_A_46033980	NC_021164.1	Ca_Kabuli_Chr05	46033980	AA	CC	CC	URR	101512423	Unknown function
SNP_38548_A_46034261	NC_021164.1	Ca_Kabuli_Chr05	46034261	AA	TT	TT	URR	101512423	Unknown function
SNP_38551_A_46079851	NC_021164.1	Ca_Kabuli_Chr05	46079851	GG	AA	AA	INTERGENIC		
SNP_38552_A_46122923	NC_021164.1	Ca_Kabuli_Chr05	46122923	CC	TT	TT	INTERGENIC		
SNP_38555_A_46212055	NC_021164.1	Ca_Kabuli_Chr05	46212055	CC	AA	AA	INTERGENIC		
SNP_38556_A_46212126	NC_021164.1	Ca_Kabuli_Chr05	46212126	CC	AA	AA	INTERGENIC		
SNP_38559_A_46267474	NC_021164.1	Ca_Kabuli_Chr05	46267474	GG	AA	AA	INTERGENIC		
SNP_38561_A_46304727	NC_021164.1	Ca_Kabuli_Chr05	46304727	AA	GG	GG	URR	101500011	uncharacterized LOC101500011
SNP_38562_A_46333649	NC_021164.1	Ca_Kabuli_Chr05	46333649	AA	CC	CC	URR	101499394	bifunctional epoxide hydrolase 2
SNP_38563_A_46333651	NC_021164.1	Ca_Kabuli_Chr05	46333651	AA	CC	CC	URR	101499394	bifunctional epoxide hydrolase 2
SNP_38564_A_46371306	NC_021164.1	Ca_Kabuli_Chr05	46371306	AA	CC	CC	INTERGENIC		
SNP_38565_A_46394752	NC_021164.1	Ca_Kabuli_Chr05	46394752	AA	TT	TT	INTERGENIC		
SNP_38568_A_46430706	NC_021164.1	Ca_Kabuli_Chr05	46430706	CC	TT	TT	DRR	101506010	putative F-box protein At3g16210

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38570_A_46566358	NC_021164.1	Ca_Kabuli_Chr05	46566358	TT	CC	CC	INTERGENIC		
SNP_38571_A_46611721	NC_021164.1	Ca_Kabuli_Chr05	46611721	AA	TT	TT	URR	101514373	superoxide dismutase [Mn], mitochondrial
SNP_38572_A_46619279	NC_021164.1	Ca_Kabuli_Chr05	46619279	TT	GG	GG	DRR	101515252	uncharacterized membrane protein At1g06890-like
SNP_38573_A_46619288	NC_021164.1	Ca_Kabuli_Chr05	46619288	TT	CC	CC	DRR	101515252	uncharacterized membrane protein At1g06890-like
SNP_38575_A_46650179	NC_021164.1	Ca_Kabuli_Chr05	46650179	TT	GG	GG	INTERGENIC		
SNP_38577_A_46655029	NC_021164.1	Ca_Kabuli_Chr05	46655029	AA	TT	TT	INTERGENIC		
SNP_38579_A_46689108	NC_021164.1	Ca_Kabuli_Chr05	46689108	AA	TT	TT	INTERGENIC		
SNP_38580_A_46718482	NC_021164.1	Ca_Kabuli_Chr05	46718482	CC	TT	TT	INTERGENIC		
SNP_38581_A_46870629	NC_021164.1	Ca_Kabuli_Chr05	46870629	CC	TT	TT	INTERGENIC		
SNP_38582_A_46874829	NC_021164.1	Ca_Kabuli_Chr05	46874829	CC	TT	TT	INTERGENIC		
SNP_38583_A_46880556	NC_021164.1	Ca_Kabuli_Chr05	46880556	GG	CC	CC	INTERGENIC		
SNP_38584_A_46886426	NC_021164.1	Ca_Kabuli_Chr05	46886426	AA	CC	CC	INTERGENIC		
SNP_38586_A_47075997	NC_021164.1	Ca_Kabuli_Chr05	47075997	CC	TT	TT	INTERGENIC		
SNP_38587_A_47112330	NC_021164.1	Ca_Kabuli_Chr05	47112330	AA	GG	GG	INTERGENIC		
SNP_38592_A_47272578	NC_021164.1	Ca_Kabuli_Chr05	47272578	GG	AA	AA	URR	101511139	flavone 3'-O-methyltransferase 1-like
SNP_38593_A_47349213	NC_021164.1	Ca_Kabuli_Chr05	47349213	AA	TT	TT	INTERGENIC		
SNP_38594_A_47349216	NC_021164.1	Ca_Kabuli_Chr05	47349216	GG	AA	AA	INTERGENIC		
SNP_38595_A_47351544	NC_021164.1	Ca_Kabuli_Chr05	47351544	GG	AA	AA	INTERGENIC		
SNP_38596_A_47452668	NC_021164.1	Ca_Kabuli_Chr05	47452668	CC	TT	TT	DRR	101504511	flocculation protein FLO11-like
SNP_38598_A_47453675	NC_021164.1	Ca_Kabuli_Chr05	47453675	TT	CC	CC	NON_SYNONYMOUS_CODING	101504511	flocculation protein FLO11-like
SNP_38599_A_47455240	NC_021164.1	Ca_Kabuli_Chr05	47455240	AA	CC	CC	URR	101504511	flocculation protein FLO11-like
SNP_38600_A_47455403	NC_021164.1	Ca_Kabuli_Chr05	47455403	AA	GG	GG	URR	101504511	flocculation protein FLO11-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38601_A_47455417	NC_021164.1	Ca_Kabuli_Chr05	47455417	GG	AA	AA	URR	101504511	flocculation protein FLO11-like
SNP_38602_A_47455422	NC_021164.1	Ca_Kabuli_Chr05	47455422	GG	AA	AA	URR	101504511	flocculation protein FLO11-like
SNP_38603_A_47455494	NC_021164.1	Ca_Kabuli_Chr05	47455494	GG	CC	CC	URR	101504511	flocculation protein FLO11-like
SNP_38604_A_47455509	NC_021164.1	Ca_Kabuli_Chr05	47455509	CC	TT	TT	URR	101504511	flocculation protein FLO11-like
SNP_38605_A_47507628	NC_021164.1	Ca_Kabuli_Chr05	47507628	AA	GG	GG	INTERGENIC		
SNP_38607_A_47553700	NC_021164.1	Ca_Kabuli_Chr05	47553700	TT	CC	CC	INTERGENIC		
SNP_38608_A_47553702	NC_021164.1	Ca_Kabuli_Chr05	47553702	AA	TT	TT	INTERGENIC		
SNP_38612_A_47881254	NC_021164.1	Ca_Kabuli_Chr05	47881254	CC	TT	TT	INTERGENIC		
SNP_38617_A_48068976	NC_021164.1	Ca_Kabuli_Chr05	48068976	TT	GG	GG	INTRON	101507419	GDSL esterase/lipase At5g08460
SNP_38619_A_48130369	NC_021164.1	Ca_Kabuli_Chr05	48130369	TT	CC	CC	INTERGENIC		
SNP_38620_A_48153219	NC_021164.1	Ca_Kabuli_Chr05	48153219	GG	TT	TT	INTERGENIC		
SNP_38622_A_23737	NC_021165.1	Ca_Kabuli_Chr06	23737	CC	TT	TT	URR	101512549	putative cysteine proteinase inhibitor 7
SNP_38624_A_38603	NC_021165.1	Ca_Kabuli_Chr06	38603	GG	TT	TT	INTERGENIC		
SNP_38625_A_59447	NC_021165.1	Ca_Kabuli_Chr06	59447	TT	GG	GG	INTERGENIC		
SNP_38626_A_88004	NC_021165.1	Ca_Kabuli_Chr06	88004	CC	TT	TT	INTERGENIC		
SNP_38627_A_96613	NC_021165.1	Ca_Kabuli_Chr06	96613	GG	AA	AA	INTERGENIC		
SNP_38628_A_112807	NC_021165.1	Ca_Kabuli_Chr06	112807	AA	GG	GG	INTERGENIC		
SNP_38629_A_112843	NC_021165.1	Ca_Kabuli_Chr06	112843	TT	GG	GG	INTERGENIC		
SNP_38630_A_112866	NC_021165.1	Ca_Kabuli_Chr06	112866	CC	AA	AA	INTERGENIC		
SNP_38632_A_113047	NC_021165.1	Ca_Kabuli_Chr06	113047	CC	TT	TT	INTERGENIC		
SNP_38633_A_113115	NC_021165.1	Ca_Kabuli_Chr06	113115	AA	GG	GG	INTERGENIC		
SNP_38634_A_113128	NC_021165.1	Ca_Kabuli_Chr06	113128	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38635_A_113186	NC_021165.1	Ca_Kabuli_Chr06	113186	AA	GG	GG	INTERGENIC		
SNP_38636_A_113213	NC_021165.1	Ca_Kabuli_Chr06	113213	GG	AA	AA	INTERGENIC		
SNP_38637_A_113222	NC_021165.1	Ca_Kabuli_Chr06	113222	TT	CC	CC	INTERGENIC		
SNP_38638_A_113245	NC_021165.1	Ca_Kabuli_Chr06	113245	CC	TT	TT	INTERGENIC		
SNP_38639_A_113251	NC_021165.1	Ca_Kabuli_Chr06	113251	AA	GG	GG	INTERGENIC		
SNP_38640_A_113252	NC_021165.1	Ca_Kabuli_Chr06	113252	AA	GG	GG	INTERGENIC		
SNP_38641_A_120303	NC_021165.1	Ca_Kabuli_Chr06	120303	GG	TT	TT	INTERGENIC		
SNP_38642_A_120556	NC_021165.1	Ca_Kabuli_Chr06	120556	CC	TT	TT	INTERGENIC		
SNP_38643_A_127806	NC_021165.1	Ca_Kabuli_Chr06	127806	GG	AA	AA	INTERGENIC		
SNP_38644_A_141212	NC_021165.1	Ca_Kabuli_Chr06	141212	AA	TT	TT	URR	101492103	type I inositol 1,4,5-trisphosphate 5-phosphatase 12-like
SNP_38645_A_141213	NC_021165.1	Ca_Kabuli_Chr06	141213	AA	CC	CC	URR	101492103	type I inositol 1,4,5-trisphosphate 5-phosphatase 12-like
SNP_38646_A_141230	NC_021165.1	Ca_Kabuli_Chr06	141230	GG	AA	AA	URR	101492103	type I inositol 1,4,5-trisphosphate 5-phosphatase 12-like
SNP_38647_A_141242	NC_021165.1	Ca_Kabuli_Chr06	141242	AA	TT	TT	URR	101492103	type I inositol 1,4,5-trisphosphate 5-phosphatase 12-like
SNP_38648_A_145629	NC_021165.1	Ca_Kabuli_Chr06	145629	CC	TT	TT	URR	101492443	endoglucanase 25-like
SNP_38649_A_145678	NC_021165.1	Ca_Kabuli_Chr06	145678	AA	TT	TT	URR	101492443	endoglucanase 25-like
SNP_38650_A_146049	NC_021165.1	Ca_Kabuli_Chr06	146049	AA	GG	GG	URR	101492443	endoglucanase 25-like
SNP_38651_A_167979	NC_021165.1	Ca_Kabuli_Chr06	167979	CC	GG	GG	INTRON	101515680	CASP-like protein 2A2
SNP_38652_A_167996	NC_021165.1	Ca_Kabuli_Chr06	167996	GG	AA	AA	INTRON	101515680	CASP-like protein 2A2
SNP_38653_A_168291	NC_021165.1	Ca_Kabuli_Chr06	168291	TT	CC	CC	INTRON	101515680	CASP-like protein 2A2
SNP_38654_A_168304	NC_021165.1	Ca_Kabuli_Chr06	168304	CC	GG	GG	INTRON	101515680	CASP-like protein 2A2
SNP_38655_A_168333	NC_021165.1	Ca_Kabuli_Chr06	168333	AA	CC	CC	INTRON	101515680	CASP-like protein 2A2
SNP_38656_A_189530	NC_021165.1	Ca_Kabuli_Chr06	189530	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38660_A_720573	NC_021165.1	Ca_Kabuli_Chr06	720573	AA	CC	CC	INTERGENIC		
SNP_38661_A_829879	NC_021165.1	Ca_Kabuli_Chr06	829879	AA	TT	TT	INTRON	101504933	probable ADP-ribosylation factor GTPase-activating protein AGD11
SNP_38662_A_924401	NC_021165.1	Ca_Kabuli_Chr06	924401	TT	GG	GG	INTERGENIC		
SNP_38663_A_974372	NC_021165.1	Ca_Kabuli_Chr06	974372	GG	AA	AA	INTERGENIC		
SNP_38664_A_982553	NC_021165.1	Ca_Kabuli_Chr06	982553	AA	GG	GG	INTERGENIC		
SNP_38665_A_982557	NC_021165.1	Ca_Kabuli_Chr06	982557	TT	GG	GG	INTERGENIC		
SNP_38666_A_1070954	NC_021165.1	Ca_Kabuli_Chr06	1070954	AA	GG	GG	URR	101509745	E3 ubiquitin-protein ligase SDIR1
SNP_38667_A_1137659	NC_021165.1	Ca_Kabuli_Chr06	1137659	AA	CC	CC	INTERGENIC		
SNP_38668_A_1175605	NC_021165.1	Ca_Kabuli_Chr06	1175605	TT	CC	CC	INTERGENIC		
SNP_38669_A_1175626	NC_021165.1	Ca_Kabuli_Chr06	1175626	TT	GG	GG	INTERGENIC		
SNP_38670_A_1175719	NC_021165.1	Ca_Kabuli_Chr06	1175719	AA	CC	CC	INTERGENIC		
SNP_38671_A_1175753	NC_021165.1	Ca_Kabuli_Chr06	1175753	AA	TT	TT	INTERGENIC		
SNP_38672_A_1175754	NC_021165.1	Ca_Kabuli_Chr06	1175754	TT	AA	AA	INTERGENIC		
SNP_38673_A_1175775	NC_021165.1	Ca_Kabuli_Chr06	1175775	CC	TT	TT	INTERGENIC		
SNP_38674_A_1176009	NC_021165.1	Ca_Kabuli_Chr06	1176009	CC	TT	TT	INTERGENIC		
SNP_38675_A_1190105	NC_021165.1	Ca_Kabuli_Chr06	1190105	GG	AA	AA	DRR	101514159	ARF guanine-nucleotide exchange factor GNOM-like
SNP_38676_A_1233711	NC_021165.1	Ca_Kabuli_Chr06	1233711	CC	TT	TT	INTERGENIC		
SNP_38678_A_1337230	NC_021165.1	Ca_Kabuli_Chr06	1337230	TT	CC	CC	INTERGENIC		
SNP_38680_A_1338910	NC_021165.1	Ca_Kabuli_Chr06	1338910	CC	AA	AA	INTERGENIC		
SNP_38681_A_1338986	NC_021165.1	Ca_Kabuli_Chr06	1338986	TT	CC	CC	INTERGENIC		
SNP_38682_A_1338999	NC_021165.1	Ca_Kabuli_Chr06	1338999	TT	GG	GG	INTERGENIC		
SNP_38683_A_1339002	NC_021165.1	Ca_Kabuli_Chr06	1339002	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38684_A_1339024	NC_021165.1	Ca_Kabuli_Chr06	1339024	CC	TT	TT	INTERGENIC			
SNP_38685_A_1339034	NC_021165.1	Ca_Kabuli_Chr06	1339034	AA	CC	CC	INTERGENIC			
SNP_38686_A_1339083	NC_021165.1	Ca_Kabuli_Chr06	1339083	AA	GG	GG	INTERGENIC			
SNP_38687_A_1339108	NC_021165.1	Ca_Kabuli_Chr06	1339108	TT	CC	CC	INTERGENIC			
SNP_38688_A_1339112	NC_021165.1	Ca_Kabuli_Chr06	1339112	CC	TT	TT	INTERGENIC			
SNP_38689_A_1339270	NC_021165.1	Ca_Kabuli_Chr06	1339270	AA	CC	CC	INTERGENIC			
SNP_38690_A_1339273	NC_021165.1	Ca_Kabuli_Chr06	1339273	GG	TT	TT	INTERGENIC			
SNP_38691_A_1339274	NC_021165.1	Ca_Kabuli_Chr06	1339274	TT	GG	GG	INTERGENIC			
SNP_38692_A_1339528	NC_021165.1	Ca_Kabuli_Chr06	1339528	CC	TT	TT	INTERGENIC			
SNP_38693_A_1339563	NC_021165.1	Ca_Kabuli_Chr06	1339563	GG	AA	AA	INTERGENIC			
SNP_38694_A_1343521	NC_021165.1	Ca_Kabuli_Chr06	1343521	AA	GG	GG	INTERGENIC			
SNP_38696_A_1348922	NC_021165.1	Ca_Kabuli_Chr06	1348922	AA	GG	GG	INTERGENIC			
SNP_38697_A_1348954	NC_021165.1	Ca_Kabuli_Chr06	1348954	TT	CC	CC	INTERGENIC			
SNP_38698_A_1349069	NC_021165.1	Ca_Kabuli_Chr06	1349069	GG	CC	CC	INTERGENIC			
SNP_38699_A_1349310	NC_021165.1	Ca_Kabuli_Chr06	1349310	CC	TT	TT	INTERGENIC			
SNP_38700_A_1349335	NC_021165.1	Ca_Kabuli_Chr06	1349335	TT	CC	CC	INTERGENIC			
SNP_38701_A_1349389	NC_021165.1	Ca_Kabuli_Chr06	1349389	GG	CC	CC	INTERGENIC			
SNP_38702_A_1349463	NC_021165.1	Ca_Kabuli_Chr06	1349463	TT	GG	GG	INTERGENIC			
SNP_38703_A_1349471	NC_021165.1	Ca_Kabuli_Chr06	1349471	AA	CC	CC	INTERGENIC			
SNP_38704_A_1350103	NC_021165.1	Ca_Kabuli_Chr06	1350103	TT	AA	AA	INTERGENIC			
SNP_38705_A_1350310	NC_021165.1	Ca_Kabuli_Chr06	1350310	AA	TT	TT	INTERGENIC			
SNP_38706_A_1350790	NC_021165.1	Ca_Kabuli_Chr06	1350790	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38707_A_1350830	NC_021165.1	Ca_Kabuli_Chr06	1350830	AA	GG	GG	INTERGENIC			
SNP_38709_A_1350965	NC_021165.1	Ca_Kabuli_Chr06	1350965	GG	AA	AA	INTERGENIC			
SNP_38710_A_1351149	NC_021165.1	Ca_Kabuli_Chr06	1351149	TT	GG	GG	INTERGENIC			
SNP_38711_A_1351254	NC_021165.1	Ca_Kabuli_Chr06	1351254	CC	GG	GG	INTERGENIC			
SNP_38712_A_1351545	NC_021165.1	Ca_Kabuli_Chr06	1351545	CC	GG	GG	INTERGENIC			
SNP_38713_A_1351748	NC_021165.1	Ca_Kabuli_Chr06	1351748	GG	CC	CC	INTERGENIC			
SNP_38715_A_1353981	NC_021165.1	Ca_Kabuli_Chr06	1353981	CC	TT	TT	INTERGENIC			
SNP_38716_A_1353990	NC_021165.1	Ca_Kabuli_Chr06	1353990	CC	TT	TT	INTERGENIC			
SNP_38717_A_1354003	NC_021165.1	Ca_Kabuli_Chr06	1354003	TT	AA	AA	INTERGENIC			
SNP_38718_A_1354127	NC_021165.1	Ca_Kabuli_Chr06	1354127	GG	AA	AA	INTERGENIC			
SNP_38719_A_1354306	NC_021165.1	Ca_Kabuli_Chr06	1354306	AA	GG	GG	INTERGENIC			
SNP_38721_A_1354328	NC_021165.1	Ca_Kabuli_Chr06	1354328	CC	TT	TT	INTERGENIC			
SNP_38722_A_1354347	NC_021165.1	Ca_Kabuli_Chr06	1354347	GG	AA	AA	INTERGENIC			
SNP_38723_A_1354351	NC_021165.1	Ca_Kabuli_Chr06	1354351	CC	TT	TT	INTERGENIC			
SNP_38724_A_1354378	NC_021165.1	Ca_Kabuli_Chr06	1354378	AA	TT	TT	INTERGENIC			
SNP_38725_A_1354424	NC_021165.1	Ca_Kabuli_Chr06	1354424	CC	TT	TT	INTERGENIC			
SNP_38726_A_1354467	NC_021165.1	Ca_Kabuli_Chr06	1354467	AA	TT	TT	INTERGENIC			
SNP_38727_A_1354473	NC_021165.1	Ca_Kabuli_Chr06	1354473	GG	AA	AA	INTERGENIC			
SNP_38728_A_1359038	NC_021165.1	Ca_Kabuli_Chr06	1359038	TT	AA	AA	INTERGENIC			
SNP_38729_A_1360619	NC_021165.1	Ca_Kabuli_Chr06	1360619	AA	GG	GG	INTERGENIC			
SNP_38730_A_1361976	NC_021165.1	Ca_Kabuli_Chr06	1361976	TT	CC	CC	INTERGENIC			
SNP_38731_A_1362145	NC_021165.1	Ca_Kabuli_Chr06	1362145	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38732_A_1362178	NC_021165.1	Ca_Kabuli_Chr06	1362178	AA	GG	GG	INTERGENIC		
SNP_38733_A_1362188	NC_021165.1	Ca_Kabuli_Chr06	1362188	TT	CC	CC	INTERGENIC		
SNP_38734_A_1362233	NC_021165.1	Ca_Kabuli_Chr06	1362233	TT	CC	CC	INTERGENIC		
SNP_38735_A_1362261	NC_021165.1	Ca_Kabuli_Chr06	1362261	AA	CC	CC	INTERGENIC		
SNP_38736_A_1362309	NC_021165.1	Ca_Kabuli_Chr06	1362309	TT	GG	GG	INTERGENIC		
SNP_38737_A_1362354	NC_021165.1	Ca_Kabuli_Chr06	1362354	GG	AA	AA	INTERGENIC		
SNP_38738_A_1362379	NC_021165.1	Ca_Kabuli_Chr06	1362379	AA	GG	GG	INTERGENIC		
SNP_38739_A_1369403	NC_021165.1	Ca_Kabuli_Chr06	1369403	AA	CC	CC	INTERGENIC		
SNP_38740_A_1369651	NC_021165.1	Ca_Kabuli_Chr06	1369651	AA	TT	TT	INTERGENIC		
SNP_38741_A_1369669	NC_021165.1	Ca_Kabuli_Chr06	1369669	GG	TT	TT	INTERGENIC		
SNP_38742_A_1369758	NC_021165.1	Ca_Kabuli_Chr06	1369758	TT	CC	CC	INTERGENIC		
SNP_38743_A_1369955	NC_021165.1	Ca_Kabuli_Chr06	1369955	AA	GG	GG	INTERGENIC		
SNP_38744_A_1369959	NC_021165.1	Ca_Kabuli_Chr06	1369959	CC	TT	TT	INTERGENIC		
SNP_38745_A_1369962	NC_021165.1	Ca_Kabuli_Chr06	1369962	TT	CC	CC	INTERGENIC		
SNP_38746_A_1376353	NC_021165.1	Ca_Kabuli_Chr06	1376353	CC	TT	TT	DRR	101498187	uncharacterized LOC101498187
SNP_38747_A_1377886	NC_021165.1	Ca_Kabuli_Chr06	1377886	CC	TT	TT	URR	101498187	uncharacterized LOC101498187
SNP_38748_A_1384524	NC_021165.1	Ca_Kabuli_Chr06	1384524	GG	AA	AA	INTERGENIC		
SNP_38749_A_1396874	NC_021165.1	Ca_Kabuli_Chr06	1396874	TT	CC	CC	URR	101499498	Unknown function
SNP_38750_A_1410138	NC_021165.1	Ca_Kabuli_Chr06	1410138	GG	AA	AA	INTERGENIC		
SNP_38751_A_1434486	NC_021165.1	Ca_Kabuli_Chr06	1434486	AA	GG	GG	INTERGENIC		
SNP_38753_A_1491398	NC_021165.1	Ca_Kabuli_Chr06	1491398	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38754_A_1491403	NC_021165.1	Ca_Kabuli_Chr06	1491403	AA	GG	GG	INTRON	101500456	folypolyglutamate synthase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38755_A_1491472	NC_021165.1	Ca_Kabuli_Chr06	1491472	AA	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38756_A_1491501	NC_021165.1	Ca_Kabuli_Chr06	1491501	TT	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38757_A_1491597	NC_021165.1	Ca_Kabuli_Chr06	1491597	TT	CC	CC	NON_SYNONYMOUS_CODING	101500456	folypolyglutamate synthase
SNP_38758_A_1491610	NC_021165.1	Ca_Kabuli_Chr06	1491610	GG	AA	AA	NON_SYNONYMOUS_CODING	101500456	folypolyglutamate synthase
SNP_38759_A_1491673	NC_021165.1	Ca_Kabuli_Chr06	1491673	GG	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38760_A_1491729	NC_021165.1	Ca_Kabuli_Chr06	1491729	GG	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38761_A_1491748	NC_021165.1	Ca_Kabuli_Chr06	1491748	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38762_A_1491780	NC_021165.1	Ca_Kabuli_Chr06	1491780	AA	GG	GG	INTRON	101500456	folypolyglutamate synthase
SNP_38763_A_1491810	NC_021165.1	Ca_Kabuli_Chr06	1491810	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38764_A_1491856	NC_021165.1	Ca_Kabuli_Chr06	1491856	GG	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38765_A_1491865	NC_021165.1	Ca_Kabuli_Chr06	1491865	GG	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38766_A_1491885	NC_021165.1	Ca_Kabuli_Chr06	1491885	AA	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38768_A_1491957	NC_021165.1	Ca_Kabuli_Chr06	1491957	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38769_A_1491999	NC_021165.1	Ca_Kabuli_Chr06	1491999	CC	AA	AA	NON_SYNONYMOUS_CODING	101500456	folypolyglutamate synthase
SNP_38770_A_1492011	NC_021165.1	Ca_Kabuli_Chr06	1492011	GG	AA	AA	NON_SYNONYMOUS_CODING	101500456	folypolyglutamate synthase
SNP_38771_A_1492061	NC_021165.1	Ca_Kabuli_Chr06	1492061	GG	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38772_A_1492064	NC_021165.1	Ca_Kabuli_Chr06	1492064	CC	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38773_A_1492142	NC_021165.1	Ca_Kabuli_Chr06	1492142	GG	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38774_A_1492144	NC_021165.1	Ca_Kabuli_Chr06	1492144	TT	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38776_A_1492246	NC_021165.1	Ca_Kabuli_Chr06	1492246	AA	GG	GG	INTRON	101500456	folypolyglutamate synthase
SNP_38777_A_1492272	NC_021165.1	Ca_Kabuli_Chr06	1492272	TT	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38778_A_1492280	NC_021165.1	Ca_Kabuli_Chr06	1492280	TT	AA	AA	INTRON	101500456	folypolyglutamate synthase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38779_A_1492289	NC_021165.1	Ca_Kabuli_Chr06	1492289	AA	GG	GG	INTRON	101500456	folypolyglutamate synthase
SNP_38780_A_1492310	NC_021165.1	Ca_Kabuli_Chr06	1492310	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38781_A_1492341	NC_021165.1	Ca_Kabuli_Chr06	1492341	CC	GG	GG	INTRON	101500456	folypolyglutamate synthase
SNP_38783_A_1492388	NC_021165.1	Ca_Kabuli_Chr06	1492388	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38784_A_1492423	NC_021165.1	Ca_Kabuli_Chr06	1492423	GG	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38785_A_1492432	NC_021165.1	Ca_Kabuli_Chr06	1492432	CC	AA	AA	INTRON	101500456	folypolyglutamate synthase
SNP_38786_A_1492443	NC_021165.1	Ca_Kabuli_Chr06	1492443	GG	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38787_A_1492545	NC_021165.1	Ca_Kabuli_Chr06	1492545	TT	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38788_A_1492620	NC_021165.1	Ca_Kabuli_Chr06	1492620	AA	CC	CC	SYNONYMOUS_CODING	101500456	folypolyglutamate synthase
SNP_38789_A_1492681	NC_021165.1	Ca_Kabuli_Chr06	1492681	AA	GG	GG	INTRON	101500456	folypolyglutamate synthase
SNP_38790_A_1492682	NC_021165.1	Ca_Kabuli_Chr06	1492682	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38791_A_1492721	NC_021165.1	Ca_Kabuli_Chr06	1492721	AA	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38793_A_1492822	NC_021165.1	Ca_Kabuli_Chr06	1492822	GG	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38794_A_1492844	NC_021165.1	Ca_Kabuli_Chr06	1492844	CC	TT	TT	INTRON	101500456	folypolyglutamate synthase
SNP_38795_A_1492939	NC_021165.1	Ca_Kabuli_Chr06	1492939	TT	CC	CC	INTRON	101500456	folypolyglutamate synthase
SNP_38796_A_1505916	NC_021165.1	Ca_Kabuli_Chr06	1505916	AA	TT	TT	INTERGENIC		
SNP_38798_A_1540000	NC_021165.1	Ca_Kabuli_Chr06	1540000	TT	CC	CC	INTERGENIC		
SNP_38799_A_1540006	NC_021165.1	Ca_Kabuli_Chr06	1540006	GG	TT	TT	INTERGENIC		
SNP_38800_A_1540094	NC_021165.1	Ca_Kabuli_Chr06	1540094	TT	CC	CC	INTERGENIC		
SNP_38801_A_1540110	NC_021165.1	Ca_Kabuli_Chr06	1540110	AA	GG	GG	INTERGENIC		
SNP_38802_A_1540170	NC_021165.1	Ca_Kabuli_Chr06	1540170	AA	TT	TT	INTERGENIC		
SNP_38803_A_1540298	NC_021165.1	Ca_Kabuli_Chr06	1540298	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38804_A_1541788	NC_021165.1	Ca_Kabuli_Chr06	1541788	TT	AA	AA	INTERGENIC			
SNP_38805_A_1541813	NC_021165.1	Ca_Kabuli_Chr06	1541813	AA	GG	GG	INTERGENIC			
SNP_38806_A_1541888	NC_021165.1	Ca_Kabuli_Chr06	1541888	GG	AA	AA	INTERGENIC			
SNP_38807_A_1542030	NC_021165.1	Ca_Kabuli_Chr06	1542030	AA	CC	CC	INTERGENIC			
SNP_38809_A_1542219	NC_021165.1	Ca_Kabuli_Chr06	1542219	TT	AA	AA	INTERGENIC			
SNP_38810_A_1542255	NC_021165.1	Ca_Kabuli_Chr06	1542255	AA	CC	CC	INTERGENIC			
SNP_38811_A_1542284	NC_021165.1	Ca_Kabuli_Chr06	1542284	CC	TT	TT	INTERGENIC			
SNP_38812_A_1542302	NC_021165.1	Ca_Kabuli_Chr06	1542302	TT	AA	AA	INTERGENIC			
SNP_38813_A_1542375	NC_021165.1	Ca_Kabuli_Chr06	1542375	TT	CC	CC	INTERGENIC			
SNP_38814_A_1542396	NC_021165.1	Ca_Kabuli_Chr06	1542396	TT	AA	AA	INTERGENIC			
SNP_38815_A_1542456	NC_021165.1	Ca_Kabuli_Chr06	1542456	TT	CC	CC	INTERGENIC			
SNP_38816_A_1542606	NC_021165.1	Ca_Kabuli_Chr06	1542606	TT	CC	CC	INTERGENIC			
SNP_38817_A_1542620	NC_021165.1	Ca_Kabuli_Chr06	1542620	AA	TT	TT	INTERGENIC			
SNP_38818_A_1542665	NC_021165.1	Ca_Kabuli_Chr06	1542665	TT	AA	AA	INTERGENIC			
SNP_38819_A_1543726	NC_021165.1	Ca_Kabuli_Chr06	1543726	CC	TT	TT	INTERGENIC			
SNP_38820_A_1543767	NC_021165.1	Ca_Kabuli_Chr06	1543767	GG	AA	AA	INTERGENIC			
SNP_38821_A_1543768	NC_021165.1	Ca_Kabuli_Chr06	1543768	AA	GG	GG	INTERGENIC			
SNP_38822_A_1543785	NC_021165.1	Ca_Kabuli_Chr06	1543785	GG	AA	AA	INTERGENIC			
SNP_38823_A_1543802	NC_021165.1	Ca_Kabuli_Chr06	1543802	GG	AA	AA	INTERGENIC			
SNP_38824_A_1543831	NC_021165.1	Ca_Kabuli_Chr06	1543831	CC	TT	TT	INTERGENIC			
SNP_38825_A_1543865	NC_021165.1	Ca_Kabuli_Chr06	1543865	CC	TT	TT	INTERGENIC			
SNP_38826_A_1543943	NC_021165.1	Ca_Kabuli_Chr06	1543943	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_38827_A_1544021	NC_021165.1	Ca_Kabuli_Chr06	1544021	TT	GG	GG	INTERGENIC			
SNP_38828_A_1544036	NC_021165.1	Ca_Kabuli_Chr06	1544036	AA	TT	TT	INTERGENIC			
SNP_38829_A_1544283	NC_021165.1	Ca_Kabuli_Chr06	1544283	AA	TT	TT	INTERGENIC			
SNP_38830_A_1544395	NC_021165.1	Ca_Kabuli_Chr06	1544395	AA	CC	CC	INTERGENIC			
SNP_38831_A_1546034	NC_021165.1	Ca_Kabuli_Chr06	1546034	GG	AA	AA	INTERGENIC			
SNP_38832_A_1546056	NC_021165.1	Ca_Kabuli_Chr06	1546056	AA	TT	TT	INTERGENIC			
SNP_38833_A_1546108	NC_021165.1	Ca_Kabuli_Chr06	1546108	AA	TT	TT	INTERGENIC			
SNP_38834_A_1546563	NC_021165.1	Ca_Kabuli_Chr06	1546563	CC	TT	TT	INTERGENIC			
SNP_38835_A_1547355	NC_021165.1	Ca_Kabuli_Chr06	1547355	AA	GG	GG	INTERGENIC			
SNP_38836_A_1547377	NC_021165.1	Ca_Kabuli_Chr06	1547377	CC	TT	TT	INTERGENIC			
SNP_38837_A_1547758	NC_021165.1	Ca_Kabuli_Chr06	1547758	AA	GG	GG	INTERGENIC			
SNP_38838_A_1547764	NC_021165.1	Ca_Kabuli_Chr06	1547764	TT	CC	CC	INTERGENIC			
SNP_38839_A_1547784	NC_021165.1	Ca_Kabuli_Chr06	1547784	CC	TT	TT	INTERGENIC			
SNP_38840_A_1548667	NC_021165.1	Ca_Kabuli_Chr06	1548667	CC	TT	TT	INTERGENIC			
SNP_38841_A_1548685	NC_021165.1	Ca_Kabuli_Chr06	1548685	GG	AA	AA	INTERGENIC			
SNP_38842_A_1548907	NC_021165.1	Ca_Kabuli_Chr06	1548907	GG	TT	TT	INTERGENIC			
SNP_38843_A_1556050	NC_021165.1	Ca_Kabuli_Chr06	1556050	CC	AA	AA	INTERGENIC			
SNP_38844_A_1556067	NC_021165.1	Ca_Kabuli_Chr06	1556067	GG	AA	AA	INTERGENIC			
SNP_38846_A_1556407	NC_021165.1	Ca_Kabuli_Chr06	1556407	TT	CC	CC	INTERGENIC			
SNP_38847_A_1556427	NC_021165.1	Ca_Kabuli_Chr06	1556427	AA	CC	CC	INTERGENIC			
SNP_38848_A_1556434	NC_021165.1	Ca_Kabuli_Chr06	1556434	CC	TT	TT	INTERGENIC			
SNP_38849_A_1556538	NC_021165.1	Ca_Kabuli_Chr06	1556538	AA	GG	GG	INTERGENIC			

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SNP_38850_A_1556565	NC_021165.1	Ca_Kabuli_Chr06	1556565	GG	AA	AA	INTERGENIC			
SNP_38851_A_1556677	NC_021165.1	Ca_Kabuli_Chr06	1556677	TT	CC	CC	INTERGENIC			
SNP_38853_A_1556885	NC_021165.1	Ca_Kabuli_Chr06	1556885	AA	TT	TT	INTERGENIC			
SNP_38854_A_1556938	NC_021165.1	Ca_Kabuli_Chr06	1556938	CC	TT	TT	INTERGENIC			
SNP_38855_A_1556939	NC_021165.1	Ca_Kabuli_Chr06	1556939	TT	AA	AA	INTERGENIC			
SNP_38856_A_1556972	NC_021165.1	Ca_Kabuli_Chr06	1556972	AA	GG	GG	INTERGENIC			
SNP_38858_A_1557141	NC_021165.1	Ca_Kabuli_Chr06	1557141	AA	GG	GG	INTERGENIC			
SNP_38859_A_1557358	NC_021165.1	Ca_Kabuli_Chr06	1557358	GG	TT	TT	INTERGENIC			
SNP_38860_A_1557513	NC_021165.1	Ca_Kabuli_Chr06	1557513	CC	TT	TT	INTERGENIC			
SNP_38861_A_1557559	NC_021165.1	Ca_Kabuli_Chr06	1557559	TT	GG	GG	INTERGENIC			
SNP_38862_A_1557565	NC_021165.1	Ca_Kabuli_Chr06	1557565	CC	AA	AA	INTERGENIC			
SNP_38863_A_1557567	NC_021165.1	Ca_Kabuli_Chr06	1557567	CC	AA	AA	INTERGENIC			
SNP_38864_A_1557588	NC_021165.1	Ca_Kabuli_Chr06	1557588	AA	GG	GG	INTERGENIC			
SNP_38866_A_1557610	NC_021165.1	Ca_Kabuli_Chr06	1557610	TT	GG	GG	INTERGENIC			
SNP_38867_A_1557611	NC_021165.1	Ca_Kabuli_Chr06	1557611	CC	TT	TT	INTERGENIC			
SNP_38868_A_1557632	NC_021165.1	Ca_Kabuli_Chr06	1557632	AA	GG	GG	INTERGENIC			
SNP_38869_A_1557637	NC_021165.1	Ca_Kabuli_Chr06	1557637	GG	AA	AA	INTERGENIC			
SNP_38870_A_1557655	NC_021165.1	Ca_Kabuli_Chr06	1557655	AA	CC	CC	INTERGENIC			
SNP_38871_A_1557658	NC_021165.1	Ca_Kabuli_Chr06	1557658	CC	GG	GG	INTERGENIC			
SNP_38872_A_1559161	NC_021165.1	Ca_Kabuli_Chr06	1559161	TT	CC	CC	INTERGENIC			
SNP_38873_A_1559267	NC_021165.1	Ca_Kabuli_Chr06	1559267	CC	AA	AA	INTERGENIC			
SNP_38875_A_1559396	NC_021165.1	Ca_Kabuli_Chr06	1559396	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38876_A_1559398	NC_021165.1	Ca_Kabuli_Chr06	1559398	AA	TT	TT	INTERGENIC		
SNP_38877_A_1559485	NC_021165.1	Ca_Kabuli_Chr06	1559485	TT	AA	AA	INTERGENIC		
SNP_38879_A_1559515	NC_021165.1	Ca_Kabuli_Chr06	1559515	CC	TT	TT	INTERGENIC		
SNP_38880_A_1559555	NC_021165.1	Ca_Kabuli_Chr06	1559555	GG	AA	AA	INTERGENIC		
SNP_38882_A_1559632	NC_021165.1	Ca_Kabuli_Chr06	1559632	AA	CC	CC	INTERGENIC		
SNP_38883_A_1559664	NC_021165.1	Ca_Kabuli_Chr06	1559664	AA	TT	TT	INTERGENIC		
SNP_38884_A_1559836	NC_021165.1	Ca_Kabuli_Chr06	1559836	GG	AA	AA	INTERGENIC		
SNP_38885_A_1559924	NC_021165.1	Ca_Kabuli_Chr06	1559924	GG	TT	TT	INTERGENIC		
SNP_38887_A_1596305	NC_021165.1	Ca_Kabuli_Chr06	1596305	TT	CC	CC	INTERGENIC		
SNP_38888_A_1644851	NC_021165.1	Ca_Kabuli_Chr06	1644851	TT	CC	CC	INTRON	101503217	protein NRT1/ PTR FAMILY 5.6-like
SNP_38889_A_1664884	NC_021165.1	Ca_Kabuli_Chr06	1664884	AA	GG	GG	INTERGENIC		
SNP_38890_A_1682018	NC_021165.1	Ca_Kabuli_Chr06	1682018	GG	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38891_A_1682060	NC_021165.1	Ca_Kabuli_Chr06	1682060	CC	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38892_A_1682076	NC_021165.1	Ca_Kabuli_Chr06	1682076	CC	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38893_A_1682101	NC_021165.1	Ca_Kabuli_Chr06	1682101	TT	CC	CC	URR	101504080	uncharacterized LOC101504080
SNP_38894_A_1682105	NC_021165.1	Ca_Kabuli_Chr06	1682105	CC	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38895_A_1682193	NC_021165.1	Ca_Kabuli_Chr06	1682193	GG	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38896_A_1682198	NC_021165.1	Ca_Kabuli_Chr06	1682198	GG	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38897_A_1682219	NC_021165.1	Ca_Kabuli_Chr06	1682219	TT	CC	CC	URR	101504080	uncharacterized LOC101504080
SNP_38898_A_1682227	NC_021165.1	Ca_Kabuli_Chr06	1682227	AA	CC	CC	URR	101504080	uncharacterized LOC101504080
SNP_38899_A_1682289	NC_021165.1	Ca_Kabuli_Chr06	1682289	GG	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38900_A_1682390	NC_021165.1	Ca_Kabuli_Chr06	1682390	GG	TT	TT	URR	101504080	uncharacterized LOC101504080

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38901_A_1682439	NC_021165.1	Ca_Kabuli_Chr06	1682439	GG	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38902_A_1682491	NC_021165.1	Ca_Kabuli_Chr06	1682491	AA	CC	CC	URR	101504080	uncharacterized LOC101504080
SNP_38903_A_1682560	NC_021165.1	Ca_Kabuli_Chr06	1682560	CC	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38904_A_1682576	NC_021165.1	Ca_Kabuli_Chr06	1682576	AA	GG	GG	URR	101504080	uncharacterized LOC101504080
SNP_38905_A_1682599	NC_021165.1	Ca_Kabuli_Chr06	1682599	TT	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38906_A_1682602	NC_021165.1	Ca_Kabuli_Chr06	1682602	CC	TT	TT	URR	101504080	uncharacterized LOC101504080
SNP_38907_A_1682622	NC_021165.1	Ca_Kabuli_Chr06	1682622	GG	AA	AA	URR	101504080	uncharacterized LOC101504080
SNP_38909_A_1682756	NC_021165.1	Ca_Kabuli_Chr06	1682756	AA	GG	GG	DRR	101504387	uncharacterized LOC101504387
SNP_38910_A_1682769	NC_021165.1	Ca_Kabuli_Chr06	1682769	CC	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38911_A_1682790	NC_021165.1	Ca_Kabuli_Chr06	1682790	AA	GG	GG	DRR	101504387	uncharacterized LOC101504387
SNP_38912_A_1682807	NC_021165.1	Ca_Kabuli_Chr06	1682807	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38913_A_1682836	NC_021165.1	Ca_Kabuli_Chr06	1682836	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38914_A_1682862	NC_021165.1	Ca_Kabuli_Chr06	1682862	CC	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38915_A_1682920	NC_021165.1	Ca_Kabuli_Chr06	1682920	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38916_A_1682921	NC_021165.1	Ca_Kabuli_Chr06	1682921	GG	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38917_A_1683003	NC_021165.1	Ca_Kabuli_Chr06	1683003	CC	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38918_A_1683033	NC_021165.1	Ca_Kabuli_Chr06	1683033	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38919_A_1683045	NC_021165.1	Ca_Kabuli_Chr06	1683045	AA	GG	GG	DRR	101504387	uncharacterized LOC101504387
SNP_38920_A_1683046	NC_021165.1	Ca_Kabuli_Chr06	1683046	AA	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38922_A_1683118	NC_021165.1	Ca_Kabuli_Chr06	1683118	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38923_A_1683190	NC_021165.1	Ca_Kabuli_Chr06	1683190	CC	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38924_A_1683221	NC_021165.1	Ca_Kabuli_Chr06	1683221	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38926_A_1683243	NC_021165.1	Ca_Kabuli_Chr06	1683243	GG	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38928_A_1683348	NC_021165.1	Ca_Kabuli_Chr06	1683348	GG	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38929_A_1683365	NC_021165.1	Ca_Kabuli_Chr06	1683365	TT	CC	CC	DRR	101504387	uncharacterized LOC101504387
SNP_38930_A_1683401	NC_021165.1	Ca_Kabuli_Chr06	1683401	CC	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38931_A_1683452	NC_021165.1	Ca_Kabuli_Chr06	1683452	CC	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38932_A_1683520	NC_021165.1	Ca_Kabuli_Chr06	1683520	TT	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38933_A_1683528	NC_021165.1	Ca_Kabuli_Chr06	1683528	AA	TT	TT	DRR	101504387	uncharacterized LOC101504387
SNP_38934_A_1683531	NC_021165.1	Ca_Kabuli_Chr06	1683531	GG	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38935_A_1683536	NC_021165.1	Ca_Kabuli_Chr06	1683536	CC	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38936_A_1683617	NC_021165.1	Ca_Kabuli_Chr06	1683617	GG	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38937_A_1683629	NC_021165.1	Ca_Kabuli_Chr06	1683629	GG	AA	AA	DRR	101504387	uncharacterized LOC101504387
SNP_38938_A_1683653	NC_021165.1	Ca_Kabuli_Chr06	1683653	AA	GG	GG	DRR	101410567	transfer RNA proline (anticodon AGG)
SNP_38939_A_1683676	NC_021165.1	Ca_Kabuli_Chr06	1683676	TT	GG	GG	DRR	101410567	transfer RNA proline (anticodon AGG)
SNP_38940_A_1697930	NC_021165.1	Ca_Kabuli_Chr06	1697930	TT	CC	CC	INTERGENIC		
SNP_38942_A_1747393	NC_021165.1	Ca_Kabuli_Chr06	1747393	CC	TT	TT	INTERGENIC		
SNP_38943_A_1773438	NC_021165.1	Ca_Kabuli_Chr06	1773438	CC	TT	TT	INTERGENIC		
SNP_38944_A_1780020	NC_021165.1	Ca_Kabuli_Chr06	1780020	TT	CC	CC	URR	101506870	lectin-like protein At1g53070
SNP_38945_A_1780417	NC_021165.1	Ca_Kabuli_Chr06	1780417	CC	AA	AA	INTERGENIC		
SNP_38947_A_1795071	NC_021165.1	Ca_Kabuli_Chr06	1795071	CC	AA	AA	URR	101507200	proline transporter 1-like
SNP_38948_A_1808485	NC_021165.1	Ca_Kabuli_Chr06	1808485	TT	CC	CC	URR	101507517	probable sugar phosphate/phosphate translocator At3g11320
SNP_38949_A_1809940	NC_021165.1	Ca_Kabuli_Chr06	1809940	TT	CC	CC	INTERGENIC		
SNP_38950_A_1814037	NC_021165.1	Ca_Kabuli_Chr06	1814037	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38951_A_1814356	NC_021165.1	Ca_Kabuli_Chr06	1814356	CC	TT	TT	INTERGENIC		
SNP_38952_A_1814384	NC_021165.1	Ca_Kabuli_Chr06	1814384	AA	GG	GG	INTERGENIC		
SNP_38953_A_1814606	NC_021165.1	Ca_Kabuli_Chr06	1814606	CC	AA	AA	INTERGENIC		
SNP_38954_A_1814893	NC_021165.1	Ca_Kabuli_Chr06	1814893	CC	TT	TT	DRR	101507830	LIM domain-containing protein WLIM2b-like
SNP_38956_A_1820927	NC_021165.1	Ca_Kabuli_Chr06	1820927	TT	CC	CC	DRR	101508884	uncharacterized protein At2g39920
SNP_38957_A_1820966	NC_021165.1	Ca_Kabuli_Chr06	1820966	AA	GG	GG	DRR	101508884	uncharacterized protein At2g39920
SNP_38958_A_1820991	NC_021165.1	Ca_Kabuli_Chr06	1820991	TT	CC	CC	DRR	101508884	uncharacterized protein At2g39920
SNP_38959_A_1821009	NC_021165.1	Ca_Kabuli_Chr06	1821009	TT	CC	CC	DRR	101508884	uncharacterized protein At2g39920
SNP_38960_A_1821037	NC_021165.1	Ca_Kabuli_Chr06	1821037	AA	GG	GG	DRR	101508884	uncharacterized protein At2g39920
SNP_38961_A_1824006	NC_021165.1	Ca_Kabuli_Chr06	1824006	GG	AA	AA	URR	101508884	uncharacterized protein At2g39920
SNP_38962_A_1824026	NC_021165.1	Ca_Kabuli_Chr06	1824026	TT	GG	GG	URR	101508884	uncharacterized protein At2g39920
SNP_38964_A_1824167	NC_021165.1	Ca_Kabuli_Chr06	1824167	TT	CC	CC	URR	101508884	uncharacterized protein At2g39920
SNP_38965_A_1824261	NC_021165.1	Ca_Kabuli_Chr06	1824261	AA	GG	GG	URR	101508884	uncharacterized protein At2g39920
SNP_38966_A_1824305	NC_021165.1	Ca_Kabuli_Chr06	1824305	AA	GG	GG	URR	101508884	uncharacterized protein At2g39920
SNP_38967_A_1824306	NC_021165.1	Ca_Kabuli_Chr06	1824306	TT	CC	CC	URR	101508884	uncharacterized protein At2g39920
SNP_38969_A_1824365	NC_021165.1	Ca_Kabuli_Chr06	1824365	CC	TT	TT	URR	101508884	uncharacterized protein At2g39920
SNP_38970_A_1825662	NC_021165.1	Ca_Kabuli_Chr06	1825662	AA	TT	TT	URR	101508884	uncharacterized protein At2g39920
SNP_38971_A_1825668	NC_021165.1	Ca_Kabuli_Chr06	1825668	GG	AA	AA	URR	101508884	uncharacterized protein At2g39920
SNP_38972_A_1825685	NC_021165.1	Ca_Kabuli_Chr06	1825685	AA	GG	GG	URR	101508884	uncharacterized protein At2g39920
SNP_38974_A_1831214	NC_021165.1	Ca_Kabuli_Chr06	1831214	AA	TT	TT	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic
SNP_38975_A_1831215	NC_021165.1	Ca_Kabuli_Chr06	1831215	AA	TT	TT	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic
SNP_38976_A_1831256	NC_021165.1	Ca_Kabuli_Chr06	1831256	GG	AA	AA	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_38977_A_1831276	NC_021165.1	Ca_Kabuli_Chr06	1831276	AA	TT	TT	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic
SNP_38978_A_1831710	NC_021165.1	Ca_Kabuli_Chr06	1831710	TT	GG	GG	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic
SNP_38979_A_1832082	NC_021165.1	Ca_Kabuli_Chr06	1832082	GG	AA	AA	URR	101509633	sedoheptulose-1,7-bisphosphatase, chloroplastic
SNP_38981_A_1842924	NC_021165.1	Ca_Kabuli_Chr06	1842924	GG	AA	AA	INTERGENIC		
SNP_38983_A_1843922	NC_021165.1	Ca_Kabuli_Chr06	1843922	AA	GG	GG	URR	101509961	mediator-associated protein 1-like
SNP_38984_A_1843949	NC_021165.1	Ca_Kabuli_Chr06	1843949	TT	CC	CC	URR	101509961	mediator-associated protein 1-like
SNP_38985_A_1843960	NC_021165.1	Ca_Kabuli_Chr06	1843960	TT	CC	CC	URR	101509961	mediator-associated protein 1-like
SNP_38987_A_1846539	NC_021165.1	Ca_Kabuli_Chr06	1846539	GG	CC	CC	DRR	101510282	coronatine-insensitive protein 1
SNP_38990_A_1854398	NC_021165.1	Ca_Kabuli_Chr06	1854398	TT	AA	AA	INTERGENIC		
SNP_38991_A_1859412	NC_021165.1	Ca_Kabuli_Chr06	1859412	AA	GG	GG	INTERGENIC		
SNP_38992_A_1863785	NC_021165.1	Ca_Kabuli_Chr06	1863785	CC	AA	AA	INTERGENIC		
SNP_38993_A_1863789	NC_021165.1	Ca_Kabuli_Chr06	1863789	CC	TT	TT	INTERGENIC		
SNP_38994_A_1864871	NC_021165.1	Ca_Kabuli_Chr06	1864871	GG	AA	AA	INTERGENIC		
SNP_38995_A_1864916	NC_021165.1	Ca_Kabuli_Chr06	1864916	AA	GG	GG	INTERGENIC		
SNP_38996_A_1865330	NC_021165.1	Ca_Kabuli_Chr06	1865330	AA	GG	GG	INTERGENIC		
SNP_38997_A_1867328	NC_021165.1	Ca_Kabuli_Chr06	1867328	AA	GG	GG	INTRON	101506108	uncharacterized LOC101506108
SNP_38998_A_1884444	NC_021165.1	Ca_Kabuli_Chr06	1884444	GG	AA	AA	INTRON	101510610	26S proteasome non-ATPase regulatory subunit 7 homolog A
SNP_38999_A_1925114	NC_021165.1	Ca_Kabuli_Chr06	1925114	TT	CC	CC	URR	101511247	eukaryotic translation initiation factor 3 subunit F
SNP_39000_A_1943184	NC_021165.1	Ca_Kabuli_Chr06	1943184	AA	GG	GG	INTERGENIC		
SNP_39004_A_1976884	NC_021165.1	Ca_Kabuli_Chr06	1976884	GG	AA	AA	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39005_A_1976911	NC_021165.1	Ca_Kabuli_Chr06	1976911	AA	GG	GG	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39006_A_1977015	NC_021165.1	Ca_Kabuli_Chr06	1977015	AA	TT	TT	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39007_A_1977026	NC_021165.1	Ca_Kabuli_Chr06	1977026	TT	AA	AA	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39009_A_1977439	NC_021165.1	Ca_Kabuli_Chr06	1977439	TT	GG	GG	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39010_A_1977482	NC_021165.1	Ca_Kabuli_Chr06	1977482	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39011_A_1977604	NC_021165.1	Ca_Kabuli_Chr06	1977604	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39012_A_1977620	NC_021165.1	Ca_Kabuli_Chr06	1977620	GG	AA	AA	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39014_A_1978383	NC_021165.1	Ca_Kabuli_Chr06	1978383	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39015_A_1978421	NC_021165.1	Ca_Kabuli_Chr06	1978421	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39016_A_1978444	NC_021165.1	Ca_Kabuli_Chr06	1978444	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39018_A_1978557	NC_021165.1	Ca_Kabuli_Chr06	1978557	AA	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39019_A_1978629	NC_021165.1	Ca_Kabuli_Chr06	1978629	AA	GG	GG	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39020_A_1978642	NC_021165.1	Ca_Kabuli_Chr06	1978642	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39021_A_1978750	NC_021165.1	Ca_Kabuli_Chr06	1978750	TT	CC	CC	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39022_A_1978792	NC_021165.1	Ca_Kabuli_Chr06	1978792	CC	GG	GG	INTRON	101512424	rhodanese-like domain-containing protein 8, chloroplastic
SNP_39023_A_2011861	NC_021165.1	Ca_Kabuli_Chr06	2011861	TT	GG	GG	INTRON	101512959	probable ADP-ribosylation factor GTPase-activating protein AGD15
SNP_39024_A_2111166	NC_021165.1	Ca_Kabuli_Chr06	2111166	TT	AA	AA	DRR	101490505	nudix hydrolase 18, mitochondrial
SNP_39026_A_2194081	NC_021165.1	Ca_Kabuli_Chr06	2194081	CC	GG	GG	INTRON	101495470	probable auxin efflux carrier component 1c
SNP_39027_A_2212113	NC_021165.1	Ca_Kabuli_Chr06	2212113	AA	TT	TT	INTRON	101496450	translocon at the outer membrane of chloroplasts 64
SNP_39028_A_2234089	NC_021165.1	Ca_Kabuli_Chr06	2234089	AA	TT	TT	INTRON	101498420	WUSCHEL-related homeobox 1
SNP_39029_A_2247242	NC_021165.1	Ca_Kabuli_Chr06	2247242	AA	CC	CC	URR	101499398	thaumatin-like protein
SNP_39030_A_2250872	NC_021165.1	Ca_Kabuli_Chr06	2250872	AA	TT	TT	INTERGENIC		
SNP_39031_A_2272251	NC_021165.1	Ca_Kabuli_Chr06	2272251	AA	GG	GG	INTRON	101500012	ras-related protein RABA6a
SNP_39032_A_2272734	NC_021165.1	Ca_Kabuli_Chr06	2272734	AA	GG	GG	INTRON	101500012	ras-related protein RABA6a

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39033_A_2307816	NC_021165.1	Ca_Kabuli_Chr06	2307816	AA	TT	TT	INTERGENIC		
SNP_39034_A_2336769	NC_021165.1	Ca_Kabuli_Chr06	2336769	CC	TT	TT	INTERGENIC		
SNP_39035_A_2352507	NC_021165.1	Ca_Kabuli_Chr06	2352507	TT	CC	CC	URR	101504081	protein MOTHER of FT and TF 1
SNP_39036_A_2354442	NC_021165.1	Ca_Kabuli_Chr06	2354442	GG	TT	TT	INTERGENIC		
SNP_39037_A_2354443	NC_021165.1	Ca_Kabuli_Chr06	2354443	TT	GG	GG	INTERGENIC		
SNP_39038_A_2374098	NC_021165.1	Ca_Kabuli_Chr06	2374098	TT	CC	CC	INTERGENIC		
SNP_39039_A_2374199	NC_021165.1	Ca_Kabuli_Chr06	2374199	TT	CC	CC	INTERGENIC		
SNP_39040_A_2374498	NC_021165.1	Ca_Kabuli_Chr06	2374498	AA	GG	GG	INTERGENIC		
SNP_39041_A_2374503	NC_021165.1	Ca_Kabuli_Chr06	2374503	TT	CC	CC	INTERGENIC		
SNP_39042_A_2374547	NC_021165.1	Ca_Kabuli_Chr06	2374547	TT	GG	GG	INTERGENIC		
SNP_39043_A_2436073	NC_021165.1	Ca_Kabuli_Chr06	2436073	AA	TT	TT	INTERGENIC		
SNP_39044_A_2441105	NC_021165.1	Ca_Kabuli_Chr06	2441105	AA	CC	CC	INTERGENIC		
SNP_39045_A_2441131	NC_021165.1	Ca_Kabuli_Chr06	2441131	GG	AA	AA	INTERGENIC		
SNP_39046_A_2472977	NC_021165.1	Ca_Kabuli_Chr06	2472977	CC	TT	TT	INTRON	101507730	Unknown function
SNP_39047_A_2472991	NC_021165.1	Ca_Kabuli_Chr06	2472991	AA	GG	GG	INTRON	101507730	Unknown function
SNP_39048_A_2473536	NC_021165.1	Ca_Kabuli_Chr06	2473536	TT	CC	CC	INTRON	101507730	Unknown function
SNP_39050_A_2512860	NC_021165.1	Ca_Kabuli_Chr06	2512860	TT	AA	AA	INTRON	101509200	nuclear poly(A) polymerase 1-like
SNP_39051_A_2512875	NC_021165.1	Ca_Kabuli_Chr06	2512875	GG	AA	AA	INTRON	101509200	nuclear poly(A) polymerase 1-like
SNP_39053_A_2518573	NC_021165.1	Ca_Kabuli_Chr06	2518573	CC	TT	TT	URR	101509529	uncharacterized LOC101509529
SNP_39055_A_2518816	NC_021165.1	Ca_Kabuli_Chr06	2518816	GG	TT	TT	URR	101509529	uncharacterized LOC101509529
SNP_39056_A_2518885	NC_021165.1	Ca_Kabuli_Chr06	2518885	TT	AA	AA	URR	101509529	uncharacterized LOC101509529
SNP_39057_A_2519041	NC_021165.1	Ca_Kabuli_Chr06	2519041	AA	CC	CC	URR	101509529	uncharacterized LOC101509529

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39058_A_2519042	NC_021165.1	Ca_Kabuli_Chr06	2519042	GG	AA	AA	URR	101509529	uncharacterized LOC101509529
SNP_39059_A_2521142	NC_021165.1	Ca_Kabuli_Chr06	2521142	CC	TT	TT	DRR	101509852	uncharacterized LOC101509852
SNP_39060_A_2522601	NC_021165.1	Ca_Kabuli_Chr06	2522601	CC	TT	TT	INTERGENIC		
SNP_39061_A_2523028	NC_021165.1	Ca_Kabuli_Chr06	2523028	TT	GG	GG	URR	101509852	uncharacterized LOC101509852
SNP_39062_A_2523780	NC_021165.1	Ca_Kabuli_Chr06	2523780	TT	AA	AA	URR	101509852	uncharacterized LOC101509852
SNP_39063_A_2524114	NC_021165.1	Ca_Kabuli_Chr06	2524114	GG	AA	AA	URR	101509852	uncharacterized LOC101509852
SNP_39064_A_2524211	NC_021165.1	Ca_Kabuli_Chr06	2524211	TT	CC	CC	URR	101509852	uncharacterized LOC101509852
SNP_39065_A_2524236	NC_021165.1	Ca_Kabuli_Chr06	2524236	TT	GG	GG	URR	101509852	uncharacterized LOC101509852
SNP_39066_A_2524240	NC_021165.1	Ca_Kabuli_Chr06	2524240	AA	GG	GG	URR	101509852	uncharacterized LOC101509852
SNP_39067_A_2524256	NC_021165.1	Ca_Kabuli_Chr06	2524256	AA	GG	GG	URR	101509852	uncharacterized LOC101509852
SNP_39068_A_2524275	NC_021165.1	Ca_Kabuli_Chr06	2524275	GG	TT	TT	URR	101509852	uncharacterized LOC101509852
SNP_39069_A_2524281	NC_021165.1	Ca_Kabuli_Chr06	2524281	AA	TT	TT	URR	101509852	uncharacterized LOC101509852
SNP_39071_A_2528181	NC_021165.1	Ca_Kabuli_Chr06	2528181	AA	GG	GG	INTERGENIC		
SNP_39072_A_2528211	NC_021165.1	Ca_Kabuli_Chr06	2528211	AA	GG	GG	INTERGENIC		
SNP_39073_A_2528218	NC_021165.1	Ca_Kabuli_Chr06	2528218	GG	TT	TT	INTERGENIC		
SNP_39074_A_2528609	NC_021165.1	Ca_Kabuli_Chr06	2528609	TT	AA	AA	INTERGENIC		
SNP_39076_A_2529350	NC_021165.1	Ca_Kabuli_Chr06	2529350	CC	TT	TT	INTERGENIC		
SNP_39077_A_2529500	NC_021165.1	Ca_Kabuli_Chr06	2529500	TT	AA	AA	INTERGENIC		
SNP_39078_A_2529510	NC_021165.1	Ca_Kabuli_Chr06	2529510	CC	AA	AA	INTERGENIC		
SNP_39080_A_2533629	NC_021165.1	Ca_Kabuli_Chr06	2533629	TT	CC	CC	INTERGENIC		
SNP_39081_A_2533653	NC_021165.1	Ca_Kabuli_Chr06	2533653	GG	CC	CC	INTERGENIC		
SNP_39082_A_2541915	NC_021165.1	Ca_Kabuli_Chr06	2541915	CC	GG	GG	URR	101509962	uncharacterized LOC101509962

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39083_A_2542282	NC_021165.1	Ca_Kabuli_Chr06	2542282	GG	CC	CC	URR	101509962	uncharacterized LOC101509962
SNP_39084_A_2542351	NC_021165.1	Ca_Kabuli_Chr06	2542351	AA	CC	CC	URR	101509962	uncharacterized LOC101509962
SNP_39085_A_2543393	NC_021165.1	Ca_Kabuli_Chr06	2543393	CC	TT	TT	URR	101509962	uncharacterized LOC101509962
SNP_39086_A_2543420	NC_021165.1	Ca_Kabuli_Chr06	2543420	AA	GG	GG	URR	101509962	uncharacterized LOC101509962
SNP_39087_A_2543431	NC_021165.1	Ca_Kabuli_Chr06	2543431	TT	AA	AA	URR	101509962	uncharacterized LOC101509962
SNP_39088_A_2543477	NC_021165.1	Ca_Kabuli_Chr06	2543477	GG	TT	TT	URR	101509962	uncharacterized LOC101509962
SNP_39089_A_2543759	NC_021165.1	Ca_Kabuli_Chr06	2543759	CC	GG	GG	URR	101509962	uncharacterized LOC101509962
SNP_39090_A_2543972	NC_021165.1	Ca_Kabuli_Chr06	2543972	CC	TT	TT	INTERGENIC		
SNP_39091_A_2544024	NC_021165.1	Ca_Kabuli_Chr06	2544024	CC	AA	AA	INTERGENIC		
SNP_39092_A_2544416	NC_021165.1	Ca_Kabuli_Chr06	2544416	CC	TT	TT	INTERGENIC		
SNP_39093_A_2544417	NC_021165.1	Ca_Kabuli_Chr06	2544417	AA	TT	TT	INTERGENIC		
SNP_39094_A_2544419	NC_021165.1	Ca_Kabuli_Chr06	2544419	GG	AA	AA	INTERGENIC		
SNP_39095_A_2544429	NC_021165.1	Ca_Kabuli_Chr06	2544429	CC	GG	GG	INTERGENIC		
SNP_39096_A_2549497	NC_021165.1	Ca_Kabuli_Chr06	2549497	CC	TT	TT	INTRON	101510167	putative RING-H2 finger protein ATL71
SNP_39098_A_2565762	NC_021165.1	Ca_Kabuli_Chr06	2565762	TT	AA	AA	URR	101510724	protein SUPPRESSOR OF FRI 4
SNP_39099_A_2574692	NC_021165.1	Ca_Kabuli_Chr06	2574692	CC	TT	TT	INTERGENIC		
SNP_39100_A_2574911	NC_021165.1	Ca_Kabuli_Chr06	2574911	GG	AA	AA	INTERGENIC		
SNP_39102_A_2667543	NC_021165.1	Ca_Kabuli_Chr06	2667543	CC	AA	AA	INTERGENIC		
SNP_39104_A_2675039	NC_021165.1	Ca_Kabuli_Chr06	2675039	TT	CC	CC	INTERGENIC		
SNP_39105_A_2675068	NC_021165.1	Ca_Kabuli_Chr06	2675068	AA	GG	GG	INTERGENIC		
SNP_39106_A_2727043	NC_021165.1	Ca_Kabuli_Chr06	2727043	TT	CC	CC	INTERGENIC		
SNP_39107_A_2753369	NC_021165.1	Ca_Kabuli_Chr06	2753369	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39109_A_2979643	NC_021165.1	Ca_Kabuli_Chr06	2979643	GG	AA	AA	INTERGENIC		
SNP_39110_A_3091334	NC_021165.1	Ca_Kabuli_Chr06	3091334	TT	CC	CC	DRR	101514700	uncharacterized LOC101514700
SNP_39111_A_3096293	NC_021165.1	Ca_Kabuli_Chr06	3096293	AA	GG	GG	INTERGENIC		
SNP_39112_A_3097631	NC_021165.1	Ca_Kabuli_Chr06	3097631	AA	GG	GG	INTERGENIC		
SNP_39113_A_3103939	NC_021165.1	Ca_Kabuli_Chr06	3103939	CC	TT	TT	INTERGENIC		
SNP_39114_A_3106978	NC_021165.1	Ca_Kabuli_Chr06	3106978	AA	CC	CC	INTERGENIC		
SNP_39116_A_3111776	NC_021165.1	Ca_Kabuli_Chr06	3111776	GG	AA	AA	INTERGENIC		
SNP_39117_A_3115709	NC_021165.1	Ca_Kabuli_Chr06	3115709	CC	TT	TT	INTERGENIC		
SNP_39118_A_3133237	NC_021165.1	Ca_Kabuli_Chr06	3133237	CC	AA	AA	DRR	101515351	uncharacterized LOC101515351
SNP_39119_A_3133253	NC_021165.1	Ca_Kabuli_Chr06	3133253	TT	GG	GG	DRR	101515351	uncharacterized LOC101515351
SNP_39120_A_3133298	NC_021165.1	Ca_Kabuli_Chr06	3133298	CC	GG	GG	DRR	101515351	uncharacterized LOC101515351
SNP_39121_A_3133876	NC_021165.1	Ca_Kabuli_Chr06	3133876	GG	AA	AA	NON_SYNONYMOUS_CODING	101515351	uncharacterized LOC101515351
SNP_39122_A_3134224	NC_021165.1	Ca_Kabuli_Chr06	3134224	GG	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39123_A_3134251	NC_021165.1	Ca_Kabuli_Chr06	3134251	TT	CC	CC	INTRON	101515351	uncharacterized LOC101515351
SNP_39124_A_3134295	NC_021165.1	Ca_Kabuli_Chr06	3134295	CC	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39125_A_3134310	NC_021165.1	Ca_Kabuli_Chr06	3134310	GG	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39126_A_3134311	NC_021165.1	Ca_Kabuli_Chr06	3134311	GG	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39127_A_3134353	NC_021165.1	Ca_Kabuli_Chr06	3134353	CC	GG	GG	INTRON	101515351	uncharacterized LOC101515351
SNP_39128_A_3134383	NC_021165.1	Ca_Kabuli_Chr06	3134383	GG	TT	TT	INTRON	101515351	uncharacterized LOC101515351
SNP_39129_A_3134384	NC_021165.1	Ca_Kabuli_Chr06	3134384	TT	GG	GG	INTRON	101515351	uncharacterized LOC101515351
SNP_39130_A_3134405	NC_021165.1	Ca_Kabuli_Chr06	3134405	GG	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39131_A_3134416	NC_021165.1	Ca_Kabuli_Chr06	3134416	TT	CC	CC	INTRON	101515351	uncharacterized LOC101515351

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39132_A_3134501	NC_021165.1	Ca_Kabuli_Chr06	3134501	GG	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39133_A_3134507	NC_021165.1	Ca_Kabuli_Chr06	3134507	TT	AA	AA	INTRON	101515351	uncharacterized LOC101515351
SNP_39134_A_3158919	NC_021165.1	Ca_Kabuli_Chr06	3158919	TT	GG	GG	INTRON	101488774	uncharacterized LOC101488774
SNP_39135_A_3160548	NC_021165.1	Ca_Kabuli_Chr06	3160548	CC	GG	GG	INTRON	101488774	uncharacterized LOC101488774
SNP_39136_A_3162421	NC_021165.1	Ca_Kabuli_Chr06	3162421	AA	CC	CC	INTRON	101488774	uncharacterized LOC101488774
SNP_39137_A_3162424	NC_021165.1	Ca_Kabuli_Chr06	3162424	TT	GG	GG	INTRON	101488774	uncharacterized LOC101488774
SNP_39138_A_3162446	NC_021165.1	Ca_Kabuli_Chr06	3162446	GG	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39139_A_3164467	NC_021165.1	Ca_Kabuli_Chr06	3164467	TT	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39140_A_3164558	NC_021165.1	Ca_Kabuli_Chr06	3164558	AA	CC	CC	INTRON	101488774	uncharacterized LOC101488774
SNP_39141_A_3165404	NC_021165.1	Ca_Kabuli_Chr06	3165404	GG	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39142_A_3166264	NC_021165.1	Ca_Kabuli_Chr06	3166264	GG	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39143_A_3167493	NC_021165.1	Ca_Kabuli_Chr06	3167493	AA	GG	GG	INTRON	101488774	uncharacterized LOC101488774
SNP_39144_A_3170181	NC_021165.1	Ca_Kabuli_Chr06	3170181	TT	CC	CC	INTRON	101488774	uncharacterized LOC101488774
SNP_39145_A_3175668	NC_021165.1	Ca_Kabuli_Chr06	3175668	CC	TT	TT	INTRON	101488774	uncharacterized LOC101488774
SNP_39146_A_3175694	NC_021165.1	Ca_Kabuli_Chr06	3175694	TT	CC	CC	INTRON	101488774	uncharacterized LOC101488774
SNP_39147_A_3175728	NC_021165.1	Ca_Kabuli_Chr06	3175728	TT	CC	CC	INTRON	101488774	uncharacterized LOC101488774
SNP_39148_A_3175780	NC_021165.1	Ca_Kabuli_Chr06	3175780	CC	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39149_A_3175788	NC_021165.1	Ca_Kabuli_Chr06	3175788	TT	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39151_A_3176058	NC_021165.1	Ca_Kabuli_Chr06	3176058	GG	TT	TT	INTRON	101488774	uncharacterized LOC101488774
SNP_39152_A_3183181	NC_021165.1	Ca_Kabuli_Chr06	3183181	GG	AA	AA	INTRON	101488774	uncharacterized LOC101488774
SNP_39153_A_3195869	NC_021165.1	Ca_Kabuli_Chr06	3195869	GG	TT	TT	DRR	101513183	AMSH-like ubiquitin thioesterase 1
SNP_39155_A_3250130	NC_021165.1	Ca_Kabuli_Chr06	3250130	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39156_A_3250138	NC_021165.1	Ca_Kabuli_Chr06	3250138	AA	GG	GG	INTERGENIC		
SNP_39157_A_3250227	NC_021165.1	Ca_Kabuli_Chr06	3250227	GG	AA	AA	INTERGENIC		
SNP_39158_A_3250363	NC_021165.1	Ca_Kabuli_Chr06	3250363	CC	AA	AA	INTERGENIC		
SNP_39159_A_3250388	NC_021165.1	Ca_Kabuli_Chr06	3250388	CC	AA	AA	INTERGENIC		
SNP_39160_A_3250429	NC_021165.1	Ca_Kabuli_Chr06	3250429	CC	AA	AA	INTERGENIC		
SNP_39161_A_3250445	NC_021165.1	Ca_Kabuli_Chr06	3250445	TT	CC	CC	INTERGENIC		
SNP_39162_A_3250448	NC_021165.1	Ca_Kabuli_Chr06	3250448	GG	AA	AA	INTERGENIC		
SNP_39163_A_3250482	NC_021165.1	Ca_Kabuli_Chr06	3250482	CC	TT	TT	INTERGENIC		
SNP_39164_A_3250529	NC_021165.1	Ca_Kabuli_Chr06	3250529	AA	TT	TT	INTERGENIC		
SNP_39165_A_3250552	NC_021165.1	Ca_Kabuli_Chr06	3250552	GG	AA	AA	INTERGENIC		
SNP_39166_A_3250564	NC_021165.1	Ca_Kabuli_Chr06	3250564	GG	AA	AA	INTERGENIC		
SNP_39168_A_3259816	NC_021165.1	Ca_Kabuli_Chr06	3259816	CC	TT	TT	INTERGENIC		
SNP_39169_A_3267585	NC_021165.1	Ca_Kabuli_Chr06	3267585	AA	TT	TT	URR	101489439	uncharacterized LOC101489439
SNP_39170_A_3289066	NC_021165.1	Ca_Kabuli_Chr06	3289066	GG	AA	AA	DRR	101490077	aldehyde dehydrogenase family 2 member C4-like
SNP_39172_A_3346590	NC_021165.1	Ca_Kabuli_Chr06	3346590	GG	AA	AA	INTERGENIC		
SNP_39173_A_3347279	NC_021165.1	Ca_Kabuli_Chr06	3347279	AA	TT	TT	INTERGENIC		
SNP_39174_A_3347280	NC_021165.1	Ca_Kabuli_Chr06	3347280	AA	TT	TT	INTERGENIC		
SNP_39175_A_3347283	NC_021165.1	Ca_Kabuli_Chr06	3347283	TT	CC	CC	INTERGENIC		
SNP_39176_A_3347304	NC_021165.1	Ca_Kabuli_Chr06	3347304	GG	TT	TT	INTERGENIC		
SNP_39177_A_3347709	NC_021165.1	Ca_Kabuli_Chr06	3347709	AA	GG	GG	INTERGENIC		
SNP_39178_A_3348760	NC_021165.1	Ca_Kabuli_Chr06	3348760	TT	GG	GG	INTERGENIC		
SNP_39179_A_3348780	NC_021165.1	Ca_Kabuli_Chr06	3348780	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39180_A_3348847	NC_021165.1	Ca_Kabuli_Chr06	3348847	GG	AA	AA	INTERGENIC		
SNP_39181_A_3348891	NC_021165.1	Ca_Kabuli_Chr06	3348891	AA	GG	GG	INTERGENIC		
SNP_39182_A_3349145	NC_021165.1	Ca_Kabuli_Chr06	3349145	TT	GG	GG	DRR	101493433	uncharacterized LOC101493433
SNP_39183_A_3349276	NC_021165.1	Ca_Kabuli_Chr06	3349276	CC	TT	TT	DRR	101493433	uncharacterized LOC101493433
SNP_39185_A_3351594	NC_021165.1	Ca_Kabuli_Chr06	3351594	GG	TT	TT	URR	101493433	uncharacterized LOC101493433
SNP_39186_A_3351645	NC_021165.1	Ca_Kabuli_Chr06	3351645	GG	CC	CC	URR	101493433	uncharacterized LOC101493433
SNP_39188_A_3351689	NC_021165.1	Ca_Kabuli_Chr06	3351689	AA	GG	GG	URR	101493433	uncharacterized LOC101493433
SNP_39189_A_3351690	NC_021165.1	Ca_Kabuli_Chr06	3351690	AA	GG	GG	URR	101493433	uncharacterized LOC101493433
SNP_39191_A_3351812	NC_021165.1	Ca_Kabuli_Chr06	3351812	AA	GG	GG	URR	101493433	uncharacterized LOC101493433
SNP_39192_A_3351841	NC_021165.1	Ca_Kabuli_Chr06	3351841	TT	CC	CC	URR	101493433	uncharacterized LOC101493433
SNP_39193_A_3351889	NC_021165.1	Ca_Kabuli_Chr06	3351889	AA	GG	GG	URR	101493433	uncharacterized LOC101493433
SNP_39195_A_3353060	NC_021165.1	Ca_Kabuli_Chr06	3353060	GG	AA	AA	INTERGENIC		
SNP_39196_A_3353065	NC_021165.1	Ca_Kabuli_Chr06	3353065	TT	CC	CC	INTERGENIC		
SNP_39197_A_3353066	NC_021165.1	Ca_Kabuli_Chr06	3353066	GG	AA	AA	INTERGENIC		
SNP_39198_A_3353108	NC_021165.1	Ca_Kabuli_Chr06	3353108	TT	AA	AA	INTERGENIC		
SNP_39199_A_3353142	NC_021165.1	Ca_Kabuli_Chr06	3353142	GG	TT	TT	INTERGENIC		
SNP_39200_A_3353160	NC_021165.1	Ca_Kabuli_Chr06	3353160	TT	AA	AA	INTERGENIC		
SNP_39201_A_3353202	NC_021165.1	Ca_Kabuli_Chr06	3353202	AA	CC	CC	INTERGENIC		
SNP_39202_A_3353420	NC_021165.1	Ca_Kabuli_Chr06	3353420	AA	CC	CC	INTERGENIC		
SNP_39203_A_3353475	NC_021165.1	Ca_Kabuli_Chr06	3353475	TT	AA	AA	INTERGENIC		
SNP_39204_A_3353859	NC_021165.1	Ca_Kabuli_Chr06	3353859	CC	AA	AA	INTERGENIC		
SNP_39205_A_3353990	NC_021165.1	Ca_Kabuli_Chr06	3353990	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_39206_A_3354029	NC_021165.1	Ca_Kabuli_Chr06	3354029	TT	AA	AA	INTERGENIC			
SNP_39207_A_3354042	NC_021165.1	Ca_Kabuli_Chr06	3354042	CC	TT	TT	INTERGENIC			
SNP_39208_A_3354090	NC_021165.1	Ca_Kabuli_Chr06	3354090	TT	CC	CC	INTERGENIC			
SNP_39209_A_3354164	NC_021165.1	Ca_Kabuli_Chr06	3354164	TT	CC	CC	INTERGENIC			
SNP_39210_A_3354179	NC_021165.1	Ca_Kabuli_Chr06	3354179	GG	AA	AA	INTERGENIC			
SNP_39212_A_3355372	NC_021165.1	Ca_Kabuli_Chr06	3355372	GG	TT	TT	INTERGENIC			
SNP_39213_A_3355386	NC_021165.1	Ca_Kabuli_Chr06	3355386	CC	AA	AA	INTERGENIC			
SNP_39214_A_3355644	NC_021165.1	Ca_Kabuli_Chr06	3355644	AA	GG	GG	INTERGENIC			
SNP_39215_A_3355680	NC_021165.1	Ca_Kabuli_Chr06	3355680	AA	TT	TT	INTERGENIC			
SNP_39216_A_3355726	NC_021165.1	Ca_Kabuli_Chr06	3355726	CC	AA	AA	INTERGENIC			
SNP_39217_A_3355753	NC_021165.1	Ca_Kabuli_Chr06	3355753	AA	GG	GG	INTERGENIC			
SNP_39219_A_3355898	NC_021165.1	Ca_Kabuli_Chr06	3355898	AA	TT	TT	INTERGENIC			
SNP_39220_A_3355954	NC_021165.1	Ca_Kabuli_Chr06	3355954	CC	TT	TT	INTERGENIC			
SNP_39221_A_3355961	NC_021165.1	Ca_Kabuli_Chr06	3355961	AA	GG	GG	INTERGENIC			
SNP_39222_A_3356057	NC_021165.1	Ca_Kabuli_Chr06	3356057	TT	CC	CC	INTERGENIC			
SNP_39223_A_3356083	NC_021165.1	Ca_Kabuli_Chr06	3356083	AA	GG	GG	INTERGENIC			
SNP_39224_A_3356120	NC_021165.1	Ca_Kabuli_Chr06	3356120	TT	AA	AA	INTERGENIC			
SNP_39225_A_3356150	NC_021165.1	Ca_Kabuli_Chr06	3356150	CC	AA	AA	INTERGENIC			
SNP_39226_A_3356152	NC_021165.1	Ca_Kabuli_Chr06	3356152	GG	AA	AA	INTERGENIC			
SNP_39227_A_3356222	NC_021165.1	Ca_Kabuli_Chr06	3356222	GG	TT	TT	INTERGENIC			
SNP_39228_A_3356250	NC_021165.1	Ca_Kabuli_Chr06	3356250	CC	AA	AA	INTERGENIC			
SNP_39229_A_3356260	NC_021165.1	Ca_Kabuli_Chr06	3356260	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_39230_A_3356425	NC_021165.1	Ca_Kabuli_Chr06	3356425	GG	AA	AA	INTERGENIC			
SNP_39231_A_3356473	NC_021165.1	Ca_Kabuli_Chr06	3356473	TT	CC	CC	INTERGENIC			
SNP_39232_A_3374657	NC_021165.1	Ca_Kabuli_Chr06	3374657	AA	TT	TT	INTERGENIC			
SNP_39233_A_3374707	NC_021165.1	Ca_Kabuli_Chr06	3374707	AA	GG	GG	INTERGENIC			
SNP_39234_A_3374806	NC_021165.1	Ca_Kabuli_Chr06	3374806	AA	GG	GG	INTERGENIC			
SNP_39235_A_3374986	NC_021165.1	Ca_Kabuli_Chr06	3374986	AA	GG	GG	INTERGENIC			
SNP_39236_A_3375015	NC_021165.1	Ca_Kabuli_Chr06	3375015	TT	CC	CC	INTERGENIC			
SNP_39237_A_3375089	NC_021165.1	Ca_Kabuli_Chr06	3375089	AA	TT	TT	INTERGENIC			
SNP_39238_A_3375209	NC_021165.1	Ca_Kabuli_Chr06	3375209	CC	TT	TT	INTERGENIC			
SNP_39240_A_3376348	NC_021165.1	Ca_Kabuli_Chr06	3376348	CC	AA	AA	INTERGENIC			
SNP_39241_A_3376424	NC_021165.1	Ca_Kabuli_Chr06	3376424	AA	GG	GG	INTERGENIC			
SNP_39242_A_3377575	NC_021165.1	Ca_Kabuli_Chr06	3377575	CC	AA	AA	INTERGENIC			
SNP_39244_A_3377604	NC_021165.1	Ca_Kabuli_Chr06	3377604	CC	GG	GG	INTERGENIC			
SNP_39245_A_3377612	NC_021165.1	Ca_Kabuli_Chr06	3377612	TT	CC	CC	INTERGENIC			
SNP_39246_A_3377644	NC_021165.1	Ca_Kabuli_Chr06	3377644	CC	GG	GG	INTERGENIC			
SNP_39247_A_3377675	NC_021165.1	Ca_Kabuli_Chr06	3377675	GG	AA	AA	INTERGENIC			
SNP_39248_A_3378086	NC_021165.1	Ca_Kabuli_Chr06	3378086	AA	CC	CC	INTERGENIC			
SNP_39249_A_3378096	NC_021165.1	Ca_Kabuli_Chr06	3378096	TT	CC	CC	INTERGENIC			
SNP_39250_A_3378114	NC_021165.1	Ca_Kabuli_Chr06	3378114	GG	AA	AA	INTERGENIC			
SNP_39251_A_3378765	NC_021165.1	Ca_Kabuli_Chr06	3378765	CC	TT	TT	INTERGENIC			
SNP_39252_A_3378773	NC_021165.1	Ca_Kabuli_Chr06	3378773	CC	TT	TT	INTERGENIC			
SNP_39253_A_3378989	NC_021165.1	Ca_Kabuli_Chr06	3378989	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39254_A_3378992	NC_021165.1	Ca_Kabuli_Chr06	3378992	GG	AA	AA	INTERGENIC		
SNP_39255_A_3379033	NC_021165.1	Ca_Kabuli_Chr06	3379033	AA	GG	GG	INTERGENIC		
SNP_39256_A_3379217	NC_021165.1	Ca_Kabuli_Chr06	3379217	AA	GG	GG	INTERGENIC		
SNP_39257_A_3380832	NC_021165.1	Ca_Kabuli_Chr06	3380832	AA	GG	GG	INTERGENIC		
SNP_39259_A_3382747	NC_021165.1	Ca_Kabuli_Chr06	3382747	GG	AA	AA	INTERGENIC		
SNP_39260_A_3382770	NC_021165.1	Ca_Kabuli_Chr06	3382770	AA	GG	GG	INTERGENIC		
SNP_39261_A_3382771	NC_021165.1	Ca_Kabuli_Chr06	3382771	TT	AA	AA	INTERGENIC		
SNP_39263_A_3382848	NC_021165.1	Ca_Kabuli_Chr06	3382848	GG	TT	TT	INTERGENIC		
SNP_39264_A_3382890	NC_021165.1	Ca_Kabuli_Chr06	3382890	AA	CC	CC	INTERGENIC		
SNP_39266_A_3383066	NC_021165.1	Ca_Kabuli_Chr06	3383066	AA	GG	GG	INTERGENIC		
SNP_39267_A_3387473	NC_021165.1	Ca_Kabuli_Chr06	3387473	TT	AA	AA	URR	101494502	Unknown function
SNP_39268_A_3387540	NC_021165.1	Ca_Kabuli_Chr06	3387540	AA	GG	GG	URR	101494502	Unknown function
SNP_39269_A_3387610	NC_021165.1	Ca_Kabuli_Chr06	3387610	CC	TT	TT	URR	101494502	Unknown function
SNP_39273_A_3392869	NC_021165.1	Ca_Kabuli_Chr06	3392869	AA	GG	GG	INTERGENIC		
SNP_39274_A_3393169	NC_021165.1	Ca_Kabuli_Chr06	3393169	GG	AA	AA	INTERGENIC		
SNP_39275_A_3393223	NC_021165.1	Ca_Kabuli_Chr06	3393223	CC	TT	TT	INTERGENIC		
SNP_39276_A_3393236	NC_021165.1	Ca_Kabuli_Chr06	3393236	AA	TT	TT	INTERGENIC		
SNP_39277_A_3393426	NC_021165.1	Ca_Kabuli_Chr06	3393426	GG	AA	AA	INTERGENIC		
SNP_39278_A_3393462	NC_021165.1	Ca_Kabuli_Chr06	3393462	TT	CC	CC	INTERGENIC		
SNP_39279_A_3393463	NC_021165.1	Ca_Kabuli_Chr06	3393463	TT	GG	GG	INTERGENIC		
SNP_39280_A_3393465	NC_021165.1	Ca_Kabuli_Chr06	3393465	CC	TT	TT	INTERGENIC		
SNP_39281_A_3393497	NC_021165.1	Ca_Kabuli_Chr06	3393497	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39282_A_3393513	NC_021165.1	Ca_Kabuli_Chr06	3393513	TT	GG	GG	INTERGENIC		
SNP_39283_A_3393539	NC_021165.1	Ca_Kabuli_Chr06	3393539	CC	GG	GG	INTERGENIC		
SNP_39284_A_3393549	NC_021165.1	Ca_Kabuli_Chr06	3393549	AA	TT	TT	INTERGENIC		
SNP_39285_A_3393562	NC_021165.1	Ca_Kabuli_Chr06	3393562	CC	TT	TT	INTERGENIC		
SNP_39286_A_3393593	NC_021165.1	Ca_Kabuli_Chr06	3393593	GG	AA	AA	INTERGENIC		
SNP_39287_A_3393691	NC_021165.1	Ca_Kabuli_Chr06	3393691	AA	GG	GG	INTERGENIC		
SNP_39288_A_3393740	NC_021165.1	Ca_Kabuli_Chr06	3393740	TT	GG	GG	INTERGENIC		
SNP_39289_A_3393753	NC_021165.1	Ca_Kabuli_Chr06	3393753	AA	GG	GG	INTERGENIC		
SNP_39290_A_3393761	NC_021165.1	Ca_Kabuli_Chr06	3393761	AA	TT	TT	INTERGENIC		
SNP_39291_A_3393782	NC_021165.1	Ca_Kabuli_Chr06	3393782	CC	TT	TT	INTERGENIC		
SNP_39292_A_3393784	NC_021165.1	Ca_Kabuli_Chr06	3393784	TT	CC	CC	INTERGENIC		
SNP_39293_A_3393792	NC_021165.1	Ca_Kabuli_Chr06	3393792	AA	CC	CC	INTERGENIC		
SNP_39294_A_3393817	NC_021165.1	Ca_Kabuli_Chr06	3393817	GG	TT	TT	INTERGENIC		
SNP_39295_A_3393831	NC_021165.1	Ca_Kabuli_Chr06	3393831	TT	GG	GG	INTERGENIC		
SNP_39296_A_3393843	NC_021165.1	Ca_Kabuli_Chr06	3393843	AA	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39297_A_3393850	NC_021165.1	Ca_Kabuli_Chr06	3393850	TT	CC	CC	DRR	101494819	ras-related protein RHN1-like
SNP_39298_A_3393923	NC_021165.1	Ca_Kabuli_Chr06	3393923	AA	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39299_A_3393933	NC_021165.1	Ca_Kabuli_Chr06	3393933	CC	TT	TT	DRR	101494819	ras-related protein RHN1-like
SNP_39300_A_3394013	NC_021165.1	Ca_Kabuli_Chr06	3394013	AA	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39301_A_3394025	NC_021165.1	Ca_Kabuli_Chr06	3394025	TT	CC	CC	DRR	101494819	ras-related protein RHN1-like
SNP_39302_A_3394034	NC_021165.1	Ca_Kabuli_Chr06	3394034	AA	TT	TT	DRR	101494819	ras-related protein RHN1-like
SNP_39303_A_3394044	NC_021165.1	Ca_Kabuli_Chr06	3394044	GG	AA	AA	DRR	101494819	ras-related protein RHN1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39304_A_3394064	NC_021165.1	Ca_Kabuli_Chr06	3394064	CC	TT	TT	DRR	101494819	ras-related protein RHN1-like
SNP_39305_A_3394244	NC_021165.1	Ca_Kabuli_Chr06	3394244	AA	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39306_A_3394257	NC_021165.1	Ca_Kabuli_Chr06	3394257	TT	CC	CC	DRR	101494819	ras-related protein RHN1-like
SNP_39307_A_3394293	NC_021165.1	Ca_Kabuli_Chr06	3394293	CC	TT	TT	DRR	101494819	ras-related protein RHN1-like
SNP_39308_A_3394322	NC_021165.1	Ca_Kabuli_Chr06	3394322	TT	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39309_A_3394327	NC_021165.1	Ca_Kabuli_Chr06	3394327	AA	GG	GG	DRR	101494819	ras-related protein RHN1-like
SNP_39310_A_3394383	NC_021165.1	Ca_Kabuli_Chr06	3394383	TT	CC	CC	DRR	101494819	ras-related protein RHN1-like
SNP_39311_A_3394481	NC_021165.1	Ca_Kabuli_Chr06	3394481	TT	AA	AA	DRR	101494819	ras-related protein RHN1-like
SNP_39312_A_3394604	NC_021165.1	Ca_Kabuli_Chr06	3394604	CC	AA	AA	DRR	101494819	ras-related protein RHN1-like
SNP_39313_A_3394656	NC_021165.1	Ca_Kabuli_Chr06	3394656	TT	CC	CC	DRR	101494819	ras-related protein RHN1-like
SNP_39314_A_3394747	NC_021165.1	Ca_Kabuli_Chr06	3394747	CC	TT	TT	DRR	101494819	ras-related protein RHN1-like
SNP_39315_A_3394898	NC_021165.1	Ca_Kabuli_Chr06	3394898	AA	TT	TT	INTERGENIC		
SNP_39316_A_3394908	NC_021165.1	Ca_Kabuli_Chr06	3394908	GG	TT	TT	INTERGENIC		
SNP_39317_A_3394921	NC_021165.1	Ca_Kabuli_Chr06	3394921	AA	GG	GG	INTERGENIC		
SNP_39318_A_3395024	NC_021165.1	Ca_Kabuli_Chr06	3395024	GG	AA	AA	INTERGENIC		
SNP_39319_A_3395253	NC_021165.1	Ca_Kabuli_Chr06	3395253	GG	AA	AA	INTERGENIC		
SNP_39320_A_3395440	NC_021165.1	Ca_Kabuli_Chr06	3395440	AA	GG	GG	INTERGENIC		
SNP_39321_A_3395467	NC_021165.1	Ca_Kabuli_Chr06	3395467	TT	GG	GG	INTERGENIC		
SNP_39322_A_3395491	NC_021165.1	Ca_Kabuli_Chr06	3395491	TT	CC	CC	INTERGENIC		
SNP_39323_A_3395492	NC_021165.1	Ca_Kabuli_Chr06	3395492	GG	AA	AA	INTERGENIC		
SNP_39324_A_3395508	NC_021165.1	Ca_Kabuli_Chr06	3395508	AA	GG	GG	INTERGENIC		
SNP_39325_A_3395512	NC_021165.1	Ca_Kabuli_Chr06	3395512	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39326_A_3395528	NC_021165.1	Ca_Kabuli_Chr06	3395528	CC	TT	TT	INTERGENIC		
SNP_39327_A_3395546	NC_021165.1	Ca_Kabuli_Chr06	3395546	TT	CC	CC	INTERGENIC		
SNP_39328_A_3395590	NC_021165.1	Ca_Kabuli_Chr06	3395590	TT	CC	CC	INTERGENIC		
SNP_39329_A_3395651	NC_021165.1	Ca_Kabuli_Chr06	3395651	CC	GG	AA	INTERGENIC		
SNP_39330_A_3395654	NC_021165.1	Ca_Kabuli_Chr06	3395654	CC	TT	TT	INTERGENIC		
SNP_39331_A_3395676	NC_021165.1	Ca_Kabuli_Chr06	3395676	GG	AA	AA	INTERGENIC		
SNP_39332_A_3395698	NC_021165.1	Ca_Kabuli_Chr06	3395698	CC	AA	AA	INTERGENIC		
SNP_39333_A_3395700	NC_021165.1	Ca_Kabuli_Chr06	3395700	GG	AA	AA	INTERGENIC		
SNP_39334_A_3395715	NC_021165.1	Ca_Kabuli_Chr06	3395715	AA	GG	GG	INTERGENIC		
SNP_39335_A_3395769	NC_021165.1	Ca_Kabuli_Chr06	3395769	GG	AA	AA	INTERGENIC		
SNP_39336_A_3395782	NC_021165.1	Ca_Kabuli_Chr06	3395782	TT	AA	AA	INTERGENIC		
SNP_39338_A_3453525	NC_021165.1	Ca_Kabuli_Chr06	3453525	TT	CC	CC	INTERGENIC		
SNP_39341_A_3553527	NC_021165.1	Ca_Kabuli_Chr06	3553527	TT	AA	AA	URR	101504283	probable inactive tRNA-specific adenosine deaminase-like protein 3
SNP_39342_A_3591461	NC_021165.1	Ca_Kabuli_Chr06	3591461	AA	GG	GG	URR	101503755	probable RNA methyltransferase At5g51130
SNP_39343_A_3591533	NC_021165.1	Ca_Kabuli_Chr06	3591533	AA	CC	CC	URR	101503755	probable RNA methyltransferase At5g51130
SNP_39344_A_3591539	NC_021165.1	Ca_Kabuli_Chr06	3591539	GG	TT	TT	URR	101503755	probable RNA methyltransferase At5g51130
SNP_39345_A_3591935	NC_021165.1	Ca_Kabuli_Chr06	3591935	GG	AA	AA	URR	101503755	probable RNA methyltransferase At5g51130
SNP_39346_A_3591949	NC_021165.1	Ca_Kabuli_Chr06	3591949	CC	TT	TT	URR	101503755	probable RNA methyltransferase At5g51130
SNP_39347_A_3648098	NC_021165.1	Ca_Kabuli_Chr06	3648098	TT	AA	AA	INTERGENIC		
SNP_39348_A_3672364	NC_021165.1	Ca_Kabuli_Chr06	3672364	GG	AA	AA	URR	101505897	uncharacterized LOC101505897
SNP_39349_A_3672637	NC_021165.1	Ca_Kabuli_Chr06	3672637	AA	GG	GG	URR	101505897	uncharacterized LOC101505897
SNP_39351_A_3751672	NC_021165.1	Ca_Kabuli_Chr06	3751672	CC	GG	GG	URR	101510725	probable protein phosphatase 2C 6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39352_A_3753183	NC_021165.1	Ca_Kabuli_Chr06	3753183	CC	AA	AA	INTERGENIC		
SNP_39355_A_3807012	NC_021165.1	Ca_Kabuli_Chr06	3807012	TT	CC	CC	URR	101513942	protein IQ-DOMAIN 14
SNP_39356_A_3819798	NC_021165.1	Ca_Kabuli_Chr06	3819798	GG	AA	AA	URR	101515256	uncharacterized LOC101515256
SNP_39358_A_3947639	NC_021165.1	Ca_Kabuli_Chr06	3947639	TT	AA	AA	INTERGENIC		
SNP_39359_A_4058556	NC_021165.1	Ca_Kabuli_Chr06	4058556	TT	CC	CC	INTERGENIC		
SNP_39360_A_4064879	NC_021165.1	Ca_Kabuli_Chr06	4064879	TT	AA	AA	DRR	101499599	inactive protein kinase SELMODRAFT_444075-like
SNP_39361_A_4064881	NC_021165.1	Ca_Kabuli_Chr06	4064881	TT	AA	AA	DRR	101499599	inactive protein kinase SELMODRAFT_444075-like
SNP_39362_A_4080202	NC_021165.1	Ca_Kabuli_Chr06	4080202	CC	TT	TT	INTERGENIC		
SNP_39363_A_4249280	NC_021165.1	Ca_Kabuli_Chr06	4249280	AA	GG	GG	INTERGENIC		
SNP_39364_A_4249297	NC_021165.1	Ca_Kabuli_Chr06	4249297	CC	TT	TT	INTERGENIC		
SNP_39365_A_4249556	NC_021165.1	Ca_Kabuli_Chr06	4249556	AA	GG	GG	INTERGENIC		
SNP_39367_A_4290648	NC_021165.1	Ca_Kabuli_Chr06	4290648	AA	CC	CC	INTERGENIC		
SNP_39368_A_4291065	NC_021165.1	Ca_Kabuli_Chr06	4291065	GG	AA	AA	INTERGENIC		
SNP_39369_A_4304951	NC_021165.1	Ca_Kabuli_Chr06	4304951	TT	CC	CC	DRR	101506765	uncharacterized LOC101506765
SNP_39370_A_4323605	NC_021165.1	Ca_Kabuli_Chr06	4323605	AA	GG	GG	INTERGENIC		
SNP_39372_A_4388531	NC_021165.1	Ca_Kabuli_Chr06	4388531	GG	AA	AA	URR	101509419	putative GEM-like protein 8
SNP_39374_A_4465138	NC_021165.1	Ca_Kabuli_Chr06	4465138	TT	AA	AA	INTERGENIC		
SNP_39375_A_4465294	NC_021165.1	Ca_Kabuli_Chr06	4465294	TT	CC	CC	INTERGENIC		
SNP_39377_A_4638586	NC_021165.1	Ca_Kabuli_Chr06	4638586	AA	GG	GG	URR	101495023	phosphatidylinositol 4-kinase gamma 2-like
SNP_39379_A_4658183	NC_021165.1	Ca_Kabuli_Chr06	4658183	AA	GG	GG	INTRON	101496451	dynammin-related protein 5A
SNP_39381_A_4692848	NC_021165.1	Ca_Kabuli_Chr06	4692848	TT	GG	GG	URR	101497634	RING-H2 finger protein ATL20-like
SNP_39382_A_4699319	NC_021165.1	Ca_Kabuli_Chr06	4699319	TT	GG	GG	INTRON	101508778	uncharacterized LOC101508778

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39383_A_4699503	NC_021165.1	Ca_Kabuli_Chr06	4699503	GG	AA	AA	NON_SYNONYMOUS_CODING	101508778	uncharacterized LOC101508778
SNP_39384_A_4699509	NC_021165.1	Ca_Kabuli_Chr06	4699509	TT	GG	GG	SYNONYMOUS_CODING	101508778	uncharacterized LOC101508778
SNP_39385_A_4699725	NC_021165.1	Ca_Kabuli_Chr06	4699725	TT	AA	AA	URR	101508778	uncharacterized LOC101508778
SNP_39386_A_4706159	NC_021165.1	Ca_Kabuli_Chr06	4706159	GG	TT	TT	INTERGENIC		
SNP_39387_A_4712912	NC_021165.1	Ca_Kabuli_Chr06	4712912	AA	GG	GG	DRR	101498634	uncharacterized LOC101498634
SNP_39388_A_4713000	NC_021165.1	Ca_Kabuli_Chr06	4713000	AA	GG	GG	DRR	101498634	uncharacterized LOC101498634
SNP_39389_A_4713103	NC_021165.1	Ca_Kabuli_Chr06	4713103	TT	CC	CC	DRR	101498634	uncharacterized LOC101498634
SNP_39390_A_4713164	NC_021165.1	Ca_Kabuli_Chr06	4713164	AA	TT	TT	DRR	101498634	uncharacterized LOC101498634
SNP_39391_A_4713260	NC_021165.1	Ca_Kabuli_Chr06	4713260	TT	AA	AA	DRR	101498634	uncharacterized LOC101498634
SNP_39392_A_4713325	NC_021165.1	Ca_Kabuli_Chr06	4713325	AA	TT	TT	DRR	101498634	uncharacterized LOC101498634
SNP_39395_A_4823123	NC_021165.1	Ca_Kabuli_Chr06	4823123	AA	CC	CC	URR	101503220	uncharacterized LOC101503220
SNP_39397_A_4849363	NC_021165.1	Ca_Kabuli_Chr06	4849363	GG	AA	AA	URR	101504184	protein trichome birefringence-like 24
SNP_39398_A_4856361	NC_021165.1	Ca_Kabuli_Chr06	4856361	TT	CC	CC	INTRON	101509420	centromere-associated protein E
SNP_39399_A_4868386	NC_021165.1	Ca_Kabuli_Chr06	4868386	AA	GG	GG	INTERGENIC		
SNP_39400_A_4928168	NC_021165.1	Ca_Kabuli_Chr06	4928168	GG	AA	AA	INTERGENIC		
SNP_39401_A_4933393	NC_021165.1	Ca_Kabuli_Chr06	4933393	TT	AA	AA	INTERGENIC		
SNP_39402_A_4983135	NC_021165.1	Ca_Kabuli_Chr06	4983135	AA	GG	GG	DRR	101509201	calcium-dependent protein kinase 3-like
SNP_39403_A_4983138	NC_021165.1	Ca_Kabuli_Chr06	4983138	AA	GG	GG	DRR	101509201	calcium-dependent protein kinase 3-like
SNP_39404_A_5017334	NC_021165.1	Ca_Kabuli_Chr06	5017334	CC	TT	TT	INTRON	101510168	fidgetin-like protein 1
SNP_39405_A_5070132	NC_021165.1	Ca_Kabuli_Chr06	5070132	CC	TT	TT	INTERGENIC		
SNP_39406_A_5070138	NC_021165.1	Ca_Kabuli_Chr06	5070138	CC	TT	TT	INTERGENIC		
SNP_39407_A_5070171	NC_021165.1	Ca_Kabuli_Chr06	5070171	CC	TT	TT	INTERGENIC		

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SNP_39408_A_5087041	NC_021165.1	Ca_Kabuli_Chr06	5087041	TT	GG	GG	INTERGENIC		
SNP_39409_A_5087042	NC_021165.1	Ca_Kabuli_Chr06	5087042	TT	GG	GG	INTERGENIC		
SNP_39410_A_5100138	NC_021165.1	Ca_Kabuli_Chr06	5100138	TT	CC	CC	DRR	101512654	serine/threonine-protein kinase Aurora-3-like
SNP_39411_A_5241162	NC_021165.1	Ca_Kabuli_Chr06	5241162	AA	GG	GG	INTERGENIC		
SNP_39412_A_5287617	NC_021165.1	Ca_Kabuli_Chr06	5287617	GG	AA	AA	INTERGENIC		
SNP_39413_A_5287636	NC_021165.1	Ca_Kabuli_Chr06	5287636	GG	AA	AA	INTERGENIC		
SNP_39414_A_5287885	NC_021165.1	Ca_Kabuli_Chr06	5287885	AA	GG	GG	INTERGENIC		
SNP_39415_A_5287955	NC_021165.1	Ca_Kabuli_Chr06	5287955	TT	GG	GG	INTERGENIC		
SNP_39417_A_5329527	NC_021165.1	Ca_Kabuli_Chr06	5329527	TT	CC	CC	INTERGENIC		
SNP_39418_A_5329528	NC_021165.1	Ca_Kabuli_Chr06	5329528	TT	CC	CC	INTERGENIC		
SNP_39419_A_5335020	NC_021165.1	Ca_Kabuli_Chr06	5335020	TT	CC	CC	INTERGENIC		
SNP_39420_A_5335088	NC_021165.1	Ca_Kabuli_Chr06	5335088	CC	TT	TT	INTERGENIC		
SNP_39421_A_5335382	NC_021165.1	Ca_Kabuli_Chr06	5335382	TT	AA	AA	INTERGENIC		
SNP_39422_A_5335435	NC_021165.1	Ca_Kabuli_Chr06	5335435	TT	CC	CC	INTERGENIC		
SNP_39423_A_5335473	NC_021165.1	Ca_Kabuli_Chr06	5335473	CC	TT	TT	INTERGENIC		
SNP_39424_A_5382071	NC_021165.1	Ca_Kabuli_Chr06	5382071	CC	TT	TT	DRR	101494078	cytochrome P450 89A2-like
SNP_39425_A_5475973	NC_021165.1	Ca_Kabuli_Chr06	5475973	AA	TT	TT	INTERGENIC		
SNP_39426_A_5499011	NC_021165.1	Ca_Kabuli_Chr06	5499011	GG	TT	TT	INTRON	101498297	GMP synthase [glutamine-hydrolyzing]
SNP_39427_A_5539652	NC_021165.1	Ca_Kabuli_Chr06	5539652	AA	GG	GG	URR	101500769	Unknown function
SNP_39428_A_5539653	NC_021165.1	Ca_Kabuli_Chr06	5539653	TT	GG	GG	URR	101500769	Unknown function
SNP_39429_A_5549210	NC_021165.1	Ca_Kabuli_Chr06	5549210	GG	CC	CC	URR	101511049	uncharacterized LOC101511049
SNP_39430_A_5573443	NC_021165.1	Ca_Kabuli_Chr06	5573443	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39431_A_5668002	NC_021165.1	Ca_Kabuli_Chr06	5668002	AA	GG	GG	URR	101513615	myosin-11-like
SNP_39432_A_5668006	NC_021165.1	Ca_Kabuli_Chr06	5668006	TT	GG	GG	URR	101513615	myosin-11-like
SNP_39433_A_5669873	NC_021165.1	Ca_Kabuli_Chr06	5669873	AA	GG	GG	INTRON	101504828	tRNA 2'-phosphotransferase 1-like
SNP_39434_A_5739187	NC_021165.1	Ca_Kabuli_Chr06	5739187	AA	GG	GG	INTRON	101504828	tRNA 2'-phosphotransferase 1-like
SNP_39435_A_5795764	NC_021165.1	Ca_Kabuli_Chr06	5795764	TT	AA	AA	INTRON	101504828	tRNA 2'-phosphotransferase 1-like
SNP_39437_A_5864710	NC_021165.1	Ca_Kabuli_Chr06	5864710	TT	AA	AA	INTRON	101504828	tRNA 2'-phosphotransferase 1-like
SNP_39439_A_6012386	NC_021165.1	Ca_Kabuli_Chr06	6012386	AA	GG	GG	INTERGENIC		
SNP_39440_A_6036204	NC_021165.1	Ca_Kabuli_Chr06	6036204	AA	GG	GG	INTERGENIC		
SNP_39441_A_6036910	NC_021165.1	Ca_Kabuli_Chr06	6036910	GG	AA	AA	INTERGENIC		
SNP_39442_A_6150510	NC_021165.1	Ca_Kabuli_Chr06	6150510	TT	CC	CC	INTERGENIC		
SNP_39444_A_6204091	NC_021165.1	Ca_Kabuli_Chr06	6204091	TT	CC	CC	URR	101513291	uncharacterized LOC101513291
SNP_39445_A_6224698	NC_021165.1	Ca_Kabuli_Chr06	6224698	AA	TT	TT	DRR	101500555	uncharacterized LOC101500555
SNP_39446_A_6304962	NC_021165.1	Ca_Kabuli_Chr06	6304962	TT	CC	CC	INTERGENIC		
SNP_39447_A_6305905	NC_021165.1	Ca_Kabuli_Chr06	6305905	AA	GG	GG	DRR	101489440	random slug protein 5-like
SNP_39449_A_6320938	NC_021165.1	Ca_Kabuli_Chr06	6320938	TT	CC	CC	INTERGENIC		
SNP_39450_A_6320940	NC_021165.1	Ca_Kabuli_Chr06	6320940	AA	GG	GG	INTERGENIC		
SNP_39451_A_6321248	NC_021165.1	Ca_Kabuli_Chr06	6321248	AA	CC	CC	INTERGENIC		
SNP_39452_A_6409563	NC_021165.1	Ca_Kabuli_Chr06	6409563	CC	TT	TT	INTERGENIC		
SNP_39454_A_6409977	NC_021165.1	Ca_Kabuli_Chr06	6409977	GG	CC	CC	INTERGENIC		
SNP_39455_A_6410507	NC_021165.1	Ca_Kabuli_Chr06	6410507	GG	AA	AA	INTERGENIC		
SNP_39456_A_6410534	NC_021165.1	Ca_Kabuli_Chr06	6410534	CC	AA	AA	INTERGENIC		
SNP_39457_A_6410715	NC_021165.1	Ca_Kabuli_Chr06	6410715	AA	CC	CC	INTERGENIC		

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SNP_39458_A_6411115	NC_021165.1	Ca_Kabuli_Chr06	6411115	CC	TT	TT	INTERGENIC		
SNP_39461_A_6417589	NC_021165.1	Ca_Kabuli_Chr06	6417589	CC	TT	TT	INTERGENIC		
SNP_39462_A_6432304	NC_021165.1	Ca_Kabuli_Chr06	6432304	TT	CC	CC	DRR	101493435	E3 ubiquitin-protein ligase CHFR
SNP_39464_A_6495623	NC_021165.1	Ca_Kabuli_Chr06	6495623	CC	TT	TT	INTERGENIC		
SNP_39465_A_6535371	NC_021165.1	Ca_Kabuli_Chr06	6535371	AA	TT	TT	INTERGENIC		
SNP_39467_A_6622539	NC_021165.1	Ca_Kabuli_Chr06	6622539	AA	CC	CC	URR	101497969	MACPF domain-containing protein A14g24290-like
SNP_39468_A_6635561	NC_021165.1	Ca_Kabuli_Chr06	6635561	CC	TT	TT	INTERGENIC		
SNP_39469_A_6645607	NC_021165.1	Ca_Kabuli_Chr06	6645607	AA	TT	TT	URR	101410582	transfer RNA histidine(anticodon GUG)
SNP_39471_A_6749281	NC_021165.1	Ca_Kabuli_Chr06	6749281	AA	GG	GG	URR	101511141	uncharacterized LOC101511141
SNP_39472_A_6749299	NC_021165.1	Ca_Kabuli_Chr06	6749299	TT	CC	CC	URR	101511141	uncharacterized LOC101511141
SNP_39473_A_6760396	NC_021165.1	Ca_Kabuli_Chr06	6760396	TT	AA	AA	DRR	101501397	uncharacterized LOC101501397
SNP_39474_A_6785943	NC_021165.1	Ca_Kabuli_Chr06	6785943	GG	TT	TT	INTERGENIC		
SNP_39475_A_6797181	NC_021165.1	Ca_Kabuli_Chr06	6797181	AA	GG	GG	URR	101503221	fatty acid amide hydrolase-like
SNP_39478_A_6922421	NC_021165.1	Ca_Kabuli_Chr06	6922421	AA	TT	TT	URR	101508886	uncharacterized LOC101508886
SNP_39479_A_6922873	NC_021165.1	Ca_Kabuli_Chr06	6922873	CC	AA	AA	URR	101508886	uncharacterized LOC101508886
SNP_39480_A_6922928	NC_021165.1	Ca_Kabuli_Chr06	6922928	CC	TT	TT	URR	101508886	uncharacterized LOC101508886
SNP_39481_A_6922950	NC_021165.1	Ca_Kabuli_Chr06	6922950	TT	AA	AA	URR	101508886	uncharacterized LOC101508886
SNP_39483_A_6945020	NC_021165.1	Ca_Kabuli_Chr06	6945020	CC	AA	AA	URR	101512746	nuclear transcription factor Y subunit B-7-like
SNP_39484_A_6945023	NC_021165.1	Ca_Kabuli_Chr06	6945023	AA	TT	TT	URR	101512746	nuclear transcription factor Y subunit B-7-like
SNP_39486_A_7015468	NC_021165.1	Ca_Kabuli_Chr06	7015468	GG	AA	AA	INTERGENIC		
SNP_39487_A_7015483	NC_021165.1	Ca_Kabuli_Chr06	7015483	AA	GG	GG	INTERGENIC		
SNP_39488_A_7125932	NC_021165.1	Ca_Kabuli_Chr06	7125932	TT	CC	CC	INTRON	101493229	uncharacterized LOC101493229

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39489_A_7151352	NC_021165.1	Ca_Kabuli_Chr06	7151352	TT	GG	GG	URR	101493230	transcription factor HEC3-like
SNP_39490_A_7192204	NC_021165.1	Ca_Kabuli_Chr06	7192204	CC	TT	TT	INTERGENIC		
SNP_39491_A_7192206	NC_021165.1	Ca_Kabuli_Chr06	7192206	CC	TT	TT	INTERGENIC		
SNP_39492_A_7192215	NC_021165.1	Ca_Kabuli_Chr06	7192215	AA	CC	CC	INTERGENIC		
SNP_39494_A_7331668	NC_021165.1	Ca_Kabuli_Chr06	7331668	TT	CC	CC	URR	101502470	histone H3.2
SNP_39495_A_7342005	NC_021165.1	Ca_Kabuli_Chr06	7342005	GG	AA	AA	DRR	101503418	uncharacterized LOC101503418
SNP_39496_A_7364300	NC_021165.1	Ca_Kabuli_Chr06	7364300	GG	AA	AA	INTERGENIC		
SNP_39498_A_7537746	NC_021165.1	Ca_Kabuli_Chr06	7537746	TT	CC	CC	INTERGENIC		
SNP_39500_A_7552797	NC_021165.1	Ca_Kabuli_Chr06	7552797	GG	AA	AA	NON_SYNONYMOUS_CODING	101511453	uncharacterized LOC101511453
SNP_39502_A_7555855	NC_021165.1	Ca_Kabuli_Chr06	7555855	TT	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39503_A_7555877	NC_021165.1	Ca_Kabuli_Chr06	7555877	TT	CC	CC	INTRON	101511453	uncharacterized LOC101511453
SNP_39504_A_7556706	NC_021165.1	Ca_Kabuli_Chr06	7556706	AA	TT	TT	INTRON	101511453	uncharacterized LOC101511453
SNP_39505_A_7557831	NC_021165.1	Ca_Kabuli_Chr06	7557831	AA	GG	GG	INTRON	101511453	uncharacterized LOC101511453
SNP_39506_A_7558096	NC_021165.1	Ca_Kabuli_Chr06	7558096	TT	CC	CC	INTRON	101511453	uncharacterized LOC101511453
SNP_39507_A_7558542	NC_021165.1	Ca_Kabuli_Chr06	7558542	AA	GG	GG	INTRON	101511453	uncharacterized LOC101511453
SNP_39508_A_7560714	NC_021165.1	Ca_Kabuli_Chr06	7560714	GG	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39509_A_7560780	NC_021165.1	Ca_Kabuli_Chr06	7560780	GG	TT	TT	INTRON	101511453	uncharacterized LOC101511453
SNP_39510_A_7561782	NC_021165.1	Ca_Kabuli_Chr06	7561782	TT	CC	CC	INTRON	101511453	uncharacterized LOC101511453
SNP_39511_A_7561865	NC_021165.1	Ca_Kabuli_Chr06	7561865	CC	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39512_A_7561902	NC_021165.1	Ca_Kabuli_Chr06	7561902	AA	GG	GG	INTRON	101511453	uncharacterized LOC101511453
SNP_39513_A_7563436	NC_021165.1	Ca_Kabuli_Chr06	7563436	AA	GG	GG	SYNONYMOUS_CODING	101511453	uncharacterized LOC101511453
SNP_39514_A_7563983	NC_021165.1	Ca_Kabuli_Chr06	7563983	TT	CC	CC	SYNONYMOUS_CODING	101511453	uncharacterized LOC101511453

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39515_A_7564186	NC_021165.1	Ca_Kabuli_Chr06	7564186	CC	TT	TT	NON_SYNONYMOUS_CODING	101511453	uncharacterized LOC101511453
SNP_39516_A_7565534	NC_021165.1	Ca_Kabuli_Chr06	7565534	TT	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39517_A_7565722	NC_021165.1	Ca_Kabuli_Chr06	7565722	GG	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39519_A_7568709	NC_021165.1	Ca_Kabuli_Chr06	7568709	GG	AA	AA	INTRON	101511453	uncharacterized LOC101511453
SNP_39520_A_7572113	NC_021165.1	Ca_Kabuli_Chr06	7572113	AA	TT	TT	INTRON	101511453	uncharacterized LOC101511453
SNP_39522_A_7575420	NC_021165.1	Ca_Kabuli_Chr06	7575420	AA	GG	GG	INTERGENIC		
SNP_39523_A_7575424	NC_021165.1	Ca_Kabuli_Chr06	7575424	CC	TT	TT	INTERGENIC		
SNP_39524_A_7575995	NC_021165.1	Ca_Kabuli_Chr06	7575995	GG	TT	TT	INTERGENIC		
SNP_39525_A_7579579	NC_021165.1	Ca_Kabuli_Chr06	7579579	TT	CC	CC	DRR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39526_A_7581799	NC_021165.1	Ca_Kabuli_Chr06	7581799	TT	CC	CC	INTERGENIC		
SNP_39527_A_7583682	NC_021165.1	Ca_Kabuli_Chr06	7583682	CC	TT	TT	INTERGENIC		
SNP_39529_A_7587932	NC_021165.1	Ca_Kabuli_Chr06	7587932	TT	AA	AA	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39530_A_7587971	NC_021165.1	Ca_Kabuli_Chr06	7587971	GG	AA	AA	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39531_A_7588145	NC_021165.1	Ca_Kabuli_Chr06	7588145	GG	AA	AA	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39532_A_7588185	NC_021165.1	Ca_Kabuli_Chr06	7588185	AA	TT	TT	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39534_A_7588371	NC_021165.1	Ca_Kabuli_Chr06	7588371	AA	GG	GG	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39535_A_7588373	NC_021165.1	Ca_Kabuli_Chr06	7588373	AA	GG	GG	URR	101512003	S-adenosylmethionine carrier 1, chloroplastic/mitochondrial
SNP_39536_A_7589011	NC_021165.1	Ca_Kabuli_Chr06	7589011	AA	GG	GG	INTERGENIC		
SNP_39537_A_7589032	NC_021165.1	Ca_Kabuli_Chr06	7589032	TT	CC	CC	INTERGENIC		
SNP_39538_A_7589461	NC_021165.1	Ca_Kabuli_Chr06	7589461	AA	GG	GG	INTERGENIC		
SNP_39539_A_7590072	NC_021165.1	Ca_Kabuli_Chr06	7590072	TT	GG	GG	INTERGENIC		
SNP_39540_A_7590252	NC_021165.1	Ca_Kabuli_Chr06	7590252	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39543_A_7593840	NC_021165.1	Ca_Kabuli_Chr06	7593840	GG	AA	AA	URR	101512328	glucan endo-1,3-beta-glucosidase 8-like
SNP_39544_A_7594168	NC_021165.1	Ca_Kabuli_Chr06	7594168	GG	CC	CC	URR	101512328	glucan endo-1,3-beta-glucosidase 8-like
SNP_39545_A_7596766	NC_021165.1	Ca_Kabuli_Chr06	7596766	TT	CC	CC	INTRON	101512656	UPF0202 protein At1g10490
SNP_39546_A_7599763	NC_021165.1	Ca_Kabuli_Chr06	7599763	CC	TT	TT	INTRON	101512656	UPF0202 protein At1g10490
SNP_39547_A_7600072	NC_021165.1	Ca_Kabuli_Chr06	7600072	CC	TT	TT	INTRON	101512656	UPF0202 protein At1g10490
SNP_39548_A_7604360	NC_021165.1	Ca_Kabuli_Chr06	7604360	AA	TT	TT	INTRON	101512656	UPF0202 protein At1g10490
SNP_39550_A_7606850	NC_021165.1	Ca_Kabuli_Chr06	7606850	CC	TT	TT	INTERGENIC		
SNP_39551_A_7609453	NC_021165.1	Ca_Kabuli_Chr06	7609453	TT	GG	GG	DRR	101512965	violaxanthin de-epoxidase, chloroplastic
SNP_39552_A_7609485	NC_021165.1	Ca_Kabuli_Chr06	7609485	GG	CC	CC	URR	101512656	UPF0202 protein At1g10490
SNP_39553_A_7609573	NC_021165.1	Ca_Kabuli_Chr06	7609573	GG	AA	AA	URR	101512656	UPF0202 protein At1g10490
SNP_39554_A_7610335	NC_021165.1	Ca_Kabuli_Chr06	7610335	TT	CC	CC	URR	101512656	UPF0202 protein At1g10490
SNP_39555_A_7611345	NC_021165.1	Ca_Kabuli_Chr06	7611345	TT	GG	GG	INTERGENIC		
SNP_39556_A_7611356	NC_021165.1	Ca_Kabuli_Chr06	7611356	TT	CC	CC	INTERGENIC		
SNP_39557_A_7614183	NC_021165.1	Ca_Kabuli_Chr06	7614183	AA	GG	GG	DRR	101493867	Unknown function
SNP_39558_A_7614816	NC_021165.1	Ca_Kabuli_Chr06	7614816	CC	GG	GG	DRR	101493867	Unknown function
SNP_39559_A_7621736	NC_021165.1	Ca_Kabuli_Chr06	7621736	AA	CC	CC	URR	101513292	probable ATP synthase 24 kDa subunit, mitochondrial
SNP_39560_A_7625866	NC_021165.1	Ca_Kabuli_Chr06	7625866	AA	GG	GG	INTERGENIC		
SNP_39561_A_7628313	NC_021165.1	Ca_Kabuli_Chr06	7628313	GG	AA	AA	DRR	101514161	ras-related protein Rab7-like
SNP_39562_A_7629102	NC_021165.1	Ca_Kabuli_Chr06	7629102	AA	GG	GG	URR	101513816	iron-sulfur assembly protein IscA, chloroplastic
SNP_39563_A_7629969	NC_021165.1	Ca_Kabuli_Chr06	7629969	AA	GG	GG	SYNONYMOUS_CODING	101514161	ras-related protein Rab7-like
SNP_39564_A_7630374	NC_021165.1	Ca_Kabuli_Chr06	7630374	CC	GG	GG	INTRON	101514161	ras-related protein Rab7-like
SNP_39566_A_7634202	NC_021165.1	Ca_Kabuli_Chr06	7634202	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39567_A_7634207	NC_021165.1	Ca_Kabuli_Chr06	7634207	TT	CC	CC	INTERGENIC		
SNP_39568_A_7634213	NC_021165.1	Ca_Kabuli_Chr06	7634213	AA	CC	CC	INTERGENIC		
SNP_39570_A_7643440	NC_021165.1	Ca_Kabuli_Chr06	7643440	TT	GG	GG	DRR	101514485	uncharacterized GTP-binding protein At5g64813
SNP_39572_A_7644183	NC_021165.1	Ca_Kabuli_Chr06	7644183	TT	AA	AA	DRR	101514485	uncharacterized GTP-binding protein At5g64813
SNP_39573_A_7644510	NC_021165.1	Ca_Kabuli_Chr06	7644510	CC	GG	GG	INTERGENIC		
SNP_39574_A_7656340	NC_021165.1	Ca_Kabuli_Chr06	7656340	AA	TT	TT	DRR	101515131	uncharacterized LOC101515131
SNP_39575_A_7656371	NC_021165.1	Ca_Kabuli_Chr06	7656371	AA	GG	GG	DRR	101515131	uncharacterized LOC101515131
SNP_39576_A_7656376	NC_021165.1	Ca_Kabuli_Chr06	7656376	AA	GG	GG	DRR	101515131	uncharacterized LOC101515131
SNP_39577_A_7656378	NC_021165.1	Ca_Kabuli_Chr06	7656378	AA	GG	GG	DRR	101515131	uncharacterized LOC101515131
SNP_39578_A_7656790	NC_021165.1	Ca_Kabuli_Chr06	7656790	CC	AA	AA	DRR	101515131	uncharacterized LOC101515131
SNP_39579_A_7656795	NC_021165.1	Ca_Kabuli_Chr06	7656795	GG	AA	AA	DRR	101515131	uncharacterized LOC101515131
SNP_39580_A_7657947	NC_021165.1	Ca_Kabuli_Chr06	7657947	CC	AA	AA	INTRON	101515131	uncharacterized LOC101515131
SNP_39582_A_7661635	NC_021165.1	Ca_Kabuli_Chr06	7661635	AA	TT	TT	DRR	101515448	uncharacterized LOC101515448
SNP_39583_A_7661636	NC_021165.1	Ca_Kabuli_Chr06	7661636	AA	TT	TT	DRR	101515448	uncharacterized LOC101515448
SNP_39584_A_7661649	NC_021165.1	Ca_Kabuli_Chr06	7661649	CC	TT	TT	DRR	101515448	uncharacterized LOC101515448
SNP_39585_A_7661656	NC_021165.1	Ca_Kabuli_Chr06	7661656	TT	CC	CC	DRR	101515448	uncharacterized LOC101515448
SNP_39586_A_7661659	NC_021165.1	Ca_Kabuli_Chr06	7661659	AA	CC	CC	DRR	101515448	uncharacterized LOC101515448
SNP_39587_A_7663493	NC_021165.1	Ca_Kabuli_Chr06	7663493	AA	TT	TT	INTERGENIC		
SNP_39588_A_7663508	NC_021165.1	Ca_Kabuli_Chr06	7663508	CC	TT	TT	INTERGENIC		
SNP_39589_A_7663509	NC_021165.1	Ca_Kabuli_Chr06	7663509	GG	AA	AA	INTERGENIC		
SNP_39590_A_7666377	NC_021165.1	Ca_Kabuli_Chr06	7666377	TT	CC	CC	URR	101515448	uncharacterized LOC101515448
SNP_39591_A_7667328	NC_021165.1	Ca_Kabuli_Chr06	7667328	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39592_A_7669001	NC_021165.1	Ca_Kabuli_Chr06	7669001	GG	AA	AA	URR	101515781	60S ribosomal protein L6-3-like
SNP_39593_A_7677029	NC_021165.1	Ca_Kabuli_Chr06	7677029	AA	CC	CC	INTERGENIC		
SNP_39594_A_7679290	NC_021165.1	Ca_Kabuli_Chr06	7679290	CC	TT	TT	URR	101488997	transcription factor TFIIIB component B"
SNP_39595_A_7679538	NC_021165.1	Ca_Kabuli_Chr06	7679538	AA	GG	GG	INTERGENIC		
SNP_39597_A_7705238	NC_021165.1	Ca_Kabuli_Chr06	7705238	CC	GG	GG	DRR	101490507	stress enhanced protein 2, chloroplastic
SNP_39598_A_7750922	NC_021165.1	Ca_Kabuli_Chr06	7750922	AA	CC	CC	DRR	101493108	cytochrome P450 CYP736A12-like
SNP_39599_A_7750924	NC_021165.1	Ca_Kabuli_Chr06	7750924	AA	GG	GG	DRR	101493108	cytochrome P450 CYP736A12-like
SNP_39600_A_7750986	NC_021165.1	Ca_Kabuli_Chr06	7750986	AA	TT	TT	DRR	101493108	cytochrome P450 CYP736A12-like
SNP_39601_A_7764195	NC_021165.1	Ca_Kabuli_Chr06	7764195	TT	GG	GG	DRR	101493970	alanine-glyoxylate aminotransferase 2 homolog 1, mitochondrial
SNP_39602_A_7807086	NC_021165.1	Ca_Kabuli_Chr06	7807086	CC	GG	GG	URR	101496008	apoptotic chromatin condensation inducer in the nucleus
SNP_39603_A_7817157	NC_021165.1	Ca_Kabuli_Chr06	7817157	TT	CC	CC	INTRON	101496556	uncharacterized LOC101496556
SNP_39605_A_7867842	NC_021165.1	Ca_Kabuli_Chr06	7867842	AA	GG	GG	INTERGENIC		
SNP_39606_A_7904406	NC_021165.1	Ca_Kabuli_Chr06	7904406	TT	GG	GG	INTERGENIC		
SNP_39607_A_7909644	NC_021165.1	Ca_Kabuli_Chr06	7909644	GG	AA	AA	INTERGENIC		
SNP_39609_A_7912913	NC_021165.1	Ca_Kabuli_Chr06	7912913	CC	TT	TT	INTERGENIC		
SNP_39610_A_7935487	NC_021165.1	Ca_Kabuli_Chr06	7935487	TT	CC	CC	INTERGENIC		
SNP_39611_A_7935534	NC_021165.1	Ca_Kabuli_Chr06	7935534	GG	AA	AA	INTERGENIC		
SNP_39612_A_7951739	NC_021165.1	Ca_Kabuli_Chr06	7951739	TT	CC	CC	INTERGENIC		
SNP_39613_A_7961933	NC_021165.1	Ca_Kabuli_Chr06	7961933	AA	GG	GG	INTERGENIC		
SNP_39617_A_8054651	NC_021165.1	Ca_Kabuli_Chr06	8054651	AA	GG	GG	URR	101506111	oxidation resistance protein 1-like
SNP_39618_A_8079468	NC_021165.1	Ca_Kabuli_Chr06	8079468	GG	TT	TT	DRR	101410583	transfer RNA glutamine (anticodon UUG)
SNP_39620_A_8124314	NC_021165.1	Ca_Kabuli_Chr06	8124314	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39621_A_8124759	NC_021165.1	Ca_Kabuli_Chr06	8124759	GG	TT	TT	INTERGENIC		
SNP_39622_A_8130842	NC_021165.1	Ca_Kabuli_Chr06	8130842	CC	TT	TT	DRR	101511569	probable sugar phosphate/phosphate translocator At5g04160
SNP_39623_A_8133126	NC_021165.1	Ca_Kabuli_Chr06	8133126	GG	TT	TT	INTERGENIC		
SNP_39624_A_8133148	NC_021165.1	Ca_Kabuli_Chr06	8133148	CC	TT	TT	INTERGENIC		
SNP_39625_A_8144264	NC_021165.1	Ca_Kabuli_Chr06	8144264	GG	AA	AA	URR	101511899	calcium-transporting ATPase 4, plasma membrane-type-like
SNP_39626_A_8171353	NC_021165.1	Ca_Kabuli_Chr06	8171353	TT	CC	CC	INTRON	101513399	enhancer of polycomb homolog 2
SNP_39627_A_8182016	NC_021165.1	Ca_Kabuli_Chr06	8182016	TT	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_39628_A_8232293	NC_021165.1	Ca_Kabuli_Chr06	8232293	AA	CC	CC	INTERGENIC		
SNP_39630_A_8318357	NC_021165.1	Ca_Kabuli_Chr06	8318357	TT	CC	CC	INTERGENIC		
SNP_39631_A_8413443	NC_021165.1	Ca_Kabuli_Chr06	8413443	TT	CC	CC	INTERGENIC		
SNP_39632_A_8413464	NC_021165.1	Ca_Kabuli_Chr06	8413464	TT	GG	GG	INTERGENIC		
SNP_39633_A_8433740	NC_021165.1	Ca_Kabuli_Chr06	8433740	AA	GG	GG	INTERGENIC		
SNP_39634_A_8433743	NC_021165.1	Ca_Kabuli_Chr06	8433743	AA	GG	GG	INTERGENIC		
SNP_39635_A_8433745	NC_021165.1	Ca_Kabuli_Chr06	8433745	TT	AA	AA	INTERGENIC		
SNP_39636_A_8448823	NC_021165.1	Ca_Kabuli_Chr06	8448823	CC	TT	TT	INTERGENIC		
SNP_39637_A_8448825	NC_021165.1	Ca_Kabuli_Chr06	8448825	AA	GG	GG	INTERGENIC		
SNP_39638_A_8448835	NC_021165.1	Ca_Kabuli_Chr06	8448835	AA	GG	GG	INTERGENIC		
SNP_39639_A_8448848	NC_021165.1	Ca_Kabuli_Chr06	8448848	AA	CC	CC	INTERGENIC		
SNP_39640_A_8477671	NC_021165.1	Ca_Kabuli_Chr06	8477671	CC	TT	TT	INTERGENIC		
SNP_39642_A_8522129	NC_021165.1	Ca_Kabuli_Chr06	8522129	GG	AA	AA	INTERGENIC		
SNP_39643_A_8522158	NC_021165.1	Ca_Kabuli_Chr06	8522158	TT	GG	GG	INTERGENIC		
SNP_39644_A_8522244	NC_021165.1	Ca_Kabuli_Chr06	8522244	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39645_A_8522512	NC_021165.1	Ca_Kabuli_Chr06	8522512	GG	TT	TT	INTERGENIC		
SNP_39646_A_8522601	NC_021165.1	Ca_Kabuli_Chr06	8522601	AA	GG	GG	INTERGENIC		
SNP_39647_A_8522664	NC_021165.1	Ca_Kabuli_Chr06	8522664	GG	AA	AA	INTERGENIC		
SNP_39648_A_8522671	NC_021165.1	Ca_Kabuli_Chr06	8522671	GG	TT	TT	INTERGENIC		
SNP_39649_A_8522784	NC_021165.1	Ca_Kabuli_Chr06	8522784	TT	AA	AA	INTERGENIC		
SNP_39650_A_8522788	NC_021165.1	Ca_Kabuli_Chr06	8522788	CC	GG	GG	INTERGENIC		
SNP_39651_A_8523061	NC_021165.1	Ca_Kabuli_Chr06	8523061	CC	GG	GG	INTERGENIC		
SNP_39652_A_8524248	NC_021165.1	Ca_Kabuli_Chr06	8524248	AA	TT	TT	INTERGENIC		
SNP_39653_A_8527799	NC_021165.1	Ca_Kabuli_Chr06	8527799	AA	GG	GG	INTERGENIC		
SNP_39654_A_8533132	NC_021165.1	Ca_Kabuli_Chr06	8533132	GG	CC	CC	INTERGENIC		
SNP_39655_A_8533518	NC_021165.1	Ca_Kabuli_Chr06	8533518	GG	CC	CC	INTERGENIC		
SNP_39656_A_8536358	NC_021165.1	Ca_Kabuli_Chr06	8536358	TT	AA	AA	INTERGENIC		
SNP_39657_A_8536359	NC_021165.1	Ca_Kabuli_Chr06	8536359	CC	GG	GG	INTERGENIC		
SNP_39659_A_8566989	NC_021165.1	Ca_Kabuli_Chr06	8566989	GG	AA	AA	INTERGENIC		
SNP_39660_A_8663797	NC_021165.1	Ca_Kabuli_Chr06	8663797	AA	GG	GG	URR	101503090	paramyosin
SNP_39661_A_8679295	NC_021165.1	Ca_Kabuli_Chr06	8679295	CC	TT	TT	URR	101503968	uncharacterized LOC101503968
SNP_39662_A_8723630	NC_021165.1	Ca_Kabuli_Chr06	8723630	CC	TT	TT	INTERGENIC		
SNP_39663_A_8741405	NC_021165.1	Ca_Kabuli_Chr06	8741405	GG	CC	CC	DRR	101506650	protein ROOT PRIMORDIUM DEFECTIVE 1
SNP_39664_A_8783315	NC_021165.1	Ca_Kabuli_Chr06	8783315	AA	GG	GG	INTERGENIC		
SNP_39665_A_8796585	NC_021165.1	Ca_Kabuli_Chr06	8796585	TT	AA	AA	INTRON	101491783	lysine histidine transporter-like 8
SNP_39666_A_8796693	NC_021165.1	Ca_Kabuli_Chr06	8796693	CC	TT	TT	INTRON	101491783	lysine histidine transporter-like 8
SNP_39667_A_8796701	NC_021165.1	Ca_Kabuli_Chr06	8796701	CC	TT	TT	INTRON	101491783	lysine histidine transporter-like 8

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39668_A_8796873	NC_021165.1	Ca_Kabuli_Chr06	8796873	AA	CC	CC	INTRON	101491783	lysine histidine transporter-like 8
SNP_39669_A_8796939	NC_021165.1	Ca_Kabuli_Chr06	8796939	CC	AA	AA	INTRON	101491783	lysine histidine transporter-like 8
SNP_39671_A_8829711	NC_021165.1	Ca_Kabuli_Chr06	8829711	GG	AA	AA	INTERGENIC		
SNP_39672_A_8847575	NC_021165.1	Ca_Kabuli_Chr06	8847575	TT	CC	CC	URR	101510070	cationic amino acid transporter 1
SNP_39673_A_8847577	NC_021165.1	Ca_Kabuli_Chr06	8847577	TT	GG	GG	URR	101510070	cationic amino acid transporter 1
SNP_39674_A_8847585	NC_021165.1	Ca_Kabuli_Chr06	8847585	CC	TT	TT	URR	101510070	cationic amino acid transporter 1
SNP_39676_A_8944899	NC_021165.1	Ca_Kabuli_Chr06	8944899	AA	TT	TT	INTERGENIC		
SNP_39677_A_8979885	NC_021165.1	Ca_Kabuli_Chr06	8979885	CC	TT	TT	DRR	101515782	probable 3-hydroxyisobutyrate dehydrogenase-like 3, mitochondrial
SNP_39678_A_9019073	NC_021165.1	Ca_Kabuli_Chr06	9019073	CC	TT	TT	INTERGENIC		
SNP_39679_A_9019084	NC_021165.1	Ca_Kabuli_Chr06	9019084	AA	GG	GG	INTERGENIC		
SNP_39680_A_9019425	NC_021165.1	Ca_Kabuli_Chr06	9019425	CC	TT	TT	INTERGENIC		
SNP_39681_A_9060465	NC_021165.1	Ca_Kabuli_Chr06	9060465	AA	CC	CC	DRR	101494079	lysine histidine transporter-like 8
SNP_39682_A_9060481	NC_021165.1	Ca_Kabuli_Chr06	9060481	GG	TT	TT	DRR	101494079	lysine histidine transporter-like 8
SNP_39683_A_9060495	NC_021165.1	Ca_Kabuli_Chr06	9060495	AA	CC	CC	DRR	101494079	lysine histidine transporter-like 8
SNP_39684_A_9060621	NC_021165.1	Ca_Kabuli_Chr06	9060621	AA	GG	GG	DRR	101494079	lysine histidine transporter-like 8
SNP_39685_A_9060821	NC_021165.1	Ca_Kabuli_Chr06	9060821	CC	TT	TT	DRR	101494079	lysine histidine transporter-like 8
SNP_39686_A_9062743	NC_021165.1	Ca_Kabuli_Chr06	9062743	GG	TT	TT	INTRON	101494079	lysine histidine transporter-like 8
SNP_39687_A_9101468	NC_021165.1	Ca_Kabuli_Chr06	9101468	GG	TT	TT	INTERGENIC		
SNP_39688_A_9103094	NC_021165.1	Ca_Kabuli_Chr06	9103094	TT	AA	AA	INTERGENIC		
SNP_39690_A_9103639	NC_021165.1	Ca_Kabuli_Chr06	9103639	TT	CC	CC	INTERGENIC		
SNP_39693_A_9225074	NC_021165.1	Ca_Kabuli_Chr06	9225074	AA	GG	GG	INTRON	101498189	calpain-type cysteine protease DEK1
SNP_39695_A_9285476	NC_021165.1	Ca_Kabuli_Chr06	9285476	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39696_A_9285477	NC_021165.1	Ca_Kabuli_Chr06	9285477	TT	CC	CC	INTERGENIC		
SNP_39697_A_9288822	NC_021165.1	Ca_Kabuli_Chr06	9288822	AA	CC	CC	INTERGENIC		
SNP_39698_A_9288825	NC_021165.1	Ca_Kabuli_Chr06	9288825	AA	TT	TT	INTERGENIC		
SNP_39699_A_9302361	NC_021165.1	Ca_Kabuli_Chr06	9302361	AA	GG	GG	INTERGENIC		
SNP_39700_A_9308525	NC_021165.1	Ca_Kabuli_Chr06	9308525	AA	CC	CC	INTERGENIC		
SNP_39701_A_9313562	NC_021165.1	Ca_Kabuli_Chr06	9313562	AA	GG	GG	INTERGENIC		
SNP_39703_A_9455000	NC_021165.1	Ca_Kabuli_Chr06	9455000	TT	AA	AA	URR	101508781	Unknown function
SNP_39706_A_9704097	NC_021165.1	Ca_Kabuli_Chr06	9704097	AA	GG	GG	INTERGENIC		
SNP_39707_A_9793117	NC_021165.1	Ca_Kabuli_Chr06	9793117	TT	AA	AA	INTERGENIC		
SNP_39708_A_9793118	NC_021165.1	Ca_Kabuli_Chr06	9793118	TT	AA	AA	INTERGENIC		
SNP_39709_A_9876058	NC_021165.1	Ca_Kabuli_Chr06	9876058	GG	AA	AA	URR	101496782	nucleobase-ascorbate transporter 2
SNP_39710_A_9876976	NC_021165.1	Ca_Kabuli_Chr06	9876976	AA	CC	CC	URR	101496782	nucleobase-ascorbate transporter 2
SNP_39711_A_9877544	NC_021165.1	Ca_Kabuli_Chr06	9877544	TT	CC	CC	URR	101496782	nucleobase-ascorbate transporter 2
SNP_39712_A_9877588	NC_021165.1	Ca_Kabuli_Chr06	9877588	TT	GG	GG	URR	101496782	nucleobase-ascorbate transporter 2
SNP_39713_A_9878388	NC_021165.1	Ca_Kabuli_Chr06	9878388	CC	TT	TT	INTERGENIC		
SNP_39714_A_9878423	NC_021165.1	Ca_Kabuli_Chr06	9878423	CC	TT	TT	INTERGENIC		
SNP_39715_A_9878444	NC_021165.1	Ca_Kabuli_Chr06	9878444	GG	AA	AA	INTERGENIC		
SNP_39716_A_9878451	NC_021165.1	Ca_Kabuli_Chr06	9878451	AA	GG	GG	INTERGENIC		
SNP_39717_A_9878491	NC_021165.1	Ca_Kabuli_Chr06	9878491	TT	CC	CC	INTERGENIC		
SNP_39718_A_9878557	NC_021165.1	Ca_Kabuli_Chr06	9878557	TT	CC	CC	INTERGENIC		
SNP_39719_A_9878847	NC_021165.1	Ca_Kabuli_Chr06	9878847	TT	GG	GG	INTERGENIC		
SNP_39720_A_9878854	NC_021165.1	Ca_Kabuli_Chr06	9878854	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_39721_A_9882098	NC_021165.1	Ca_Kabuli_Chr06	9882098	CC	TT	TT	INTERGENIC			
SNP_39722_A_9882103	NC_021165.1	Ca_Kabuli_Chr06	9882103	AA	TT	TT	INTERGENIC			
SNP_39723_A_9883589	NC_021165.1	Ca_Kabuli_Chr06	9883589	GG	TT	TT	INTERGENIC			
SNP_39724_A_9883597	NC_021165.1	Ca_Kabuli_Chr06	9883597	CC	TT	TT	INTERGENIC			
SNP_39725_A_9883836	NC_021165.1	Ca_Kabuli_Chr06	9883836	GG	AA	AA	INTERGENIC			
SNP_39726_A_9883848	NC_021165.1	Ca_Kabuli_Chr06	9883848	TT	CC	CC	INTERGENIC			
SNP_39727_A_9883858	NC_021165.1	Ca_Kabuli_Chr06	9883858	CC	GG	GG	INTERGENIC			
SNP_39728_A_9883860	NC_021165.1	Ca_Kabuli_Chr06	9883860	GG	AA	AA	INTERGENIC			
SNP_39729_A_9883872	NC_021165.1	Ca_Kabuli_Chr06	9883872	TT	CC	CC	INTERGENIC			
SNP_39730_A_9884080	NC_021165.1	Ca_Kabuli_Chr06	9884080	AA	GG	GG	INTERGENIC			
SNP_39731_A_9884166	NC_021165.1	Ca_Kabuli_Chr06	9884166	TT	CC	CC	INTERGENIC			
SNP_39732_A_9884399	NC_021165.1	Ca_Kabuli_Chr06	9884399	AA	GG	GG	INTERGENIC			
SNP_39733_A_9884430	NC_021165.1	Ca_Kabuli_Chr06	9884430	GG	AA	AA	INTERGENIC			
SNP_39735_A_9884688	NC_021165.1	Ca_Kabuli_Chr06	9884688	TT	CC	CC	INTERGENIC			
SNP_39736_A_9884692	NC_021165.1	Ca_Kabuli_Chr06	9884692	AA	TT	TT	INTERGENIC			
SNP_39737_A_9884694	NC_021165.1	Ca_Kabuli_Chr06	9884694	CC	TT	TT	INTERGENIC			
SNP_39738_A_9884706	NC_021165.1	Ca_Kabuli_Chr06	9884706	GG	AA	AA	INTERGENIC			
SNP_39739_A_9884708	NC_021165.1	Ca_Kabuli_Chr06	9884708	AA	CC	CC	INTERGENIC			
SNP_39740_A_9884729	NC_021165.1	Ca_Kabuli_Chr06	9884729	CC	AA	AA	INTERGENIC			
SNP_39741_A_9884788	NC_021165.1	Ca_Kabuli_Chr06	9884788	GG	AA	AA	INTERGENIC			
SNP_39742_A_9884982	NC_021165.1	Ca_Kabuli_Chr06	9884982	TT	CC	CC	INTERGENIC			
SNP_39743_A_9887419	NC_021165.1	Ca_Kabuli_Chr06	9887419	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39744_A_9889091	NC_021165.1	Ca_Kabuli_Chr06	9889091	GG	AA	AA	DRR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39746_A_9893239	NC_021165.1	Ca_Kabuli_Chr06	9893239	TT	CC	CC	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39748_A_9894290	NC_021165.1	Ca_Kabuli_Chr06	9894290	TT	AA	AA	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39749_A_9894552	NC_021165.1	Ca_Kabuli_Chr06	9894552	GG	AA	AA	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39750_A_9894703	NC_021165.1	Ca_Kabuli_Chr06	9894703	GG	TT	TT	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39751_A_9894802	NC_021165.1	Ca_Kabuli_Chr06	9894802	AA	TT	TT	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39753_A_9894889	NC_021165.1	Ca_Kabuli_Chr06	9894889	AA	TT	TT	URR	101497100	probable LRR receptor-like serine/threonine-protein kinase At2g24230
SNP_39754_A_9896270	NC_021165.1	Ca_Kabuli_Chr06	9896270	AA	TT	TT	NON_SYNONYMOUS_CODING	101511050	ervatamin-B-like
SNP_39755_A_9898520	NC_021165.1	Ca_Kabuli_Chr06	9898520	GG	AA	AA	URR	101511050	ervatamin-B-like
SNP_39756_A_9898588	NC_021165.1	Ca_Kabuli_Chr06	9898588	TT	CC	CC	URR	101511050	ervatamin-B-like
SNP_39757_A_9898837	NC_021165.1	Ca_Kabuli_Chr06	9898837	TT	AA	AA	URR	101511050	ervatamin-B-like
SNP_39758_A_9898838	NC_021165.1	Ca_Kabuli_Chr06	9898838	TT	AA	AA	URR	101511050	ervatamin-B-like
SNP_39759_A_9898840	NC_021165.1	Ca_Kabuli_Chr06	9898840	TT	GG	GG	URR	101511050	ervatamin-B-like
SNP_39760_A_9898846	NC_021165.1	Ca_Kabuli_Chr06	9898846	AA	TT	TT	URR	101511050	ervatamin-B-like
SNP_39761_A_9898854	NC_021165.1	Ca_Kabuli_Chr06	9898854	CC	TT	TT	URR	101511050	ervatamin-B-like
SNP_39762_A_9900933	NC_021165.1	Ca_Kabuli_Chr06	9900933	AA	CC	CC	URR	101511360	Unknown function
SNP_39764_A_9901009	NC_021165.1	Ca_Kabuli_Chr06	9901009	TT	CC	CC	URR	101511360	Unknown function
SNP_39765_A_9901073	NC_021165.1	Ca_Kabuli_Chr06	9901073	AA	GG	GG	URR	101511360	Unknown function
SNP_39766_A_9902854	NC_021165.1	Ca_Kabuli_Chr06	9902854	AA	GG	GG	URR	101511360	Unknown function
SNP_39767_A_9902872	NC_021165.1	Ca_Kabuli_Chr06	9902872	TT	GG	GG	INTERGENIC		
SNP_39768_A_9902911	NC_021165.1	Ca_Kabuli_Chr06	9902911	TT	CC	CC	INTERGENIC		
SNP_39769_A_9902988	NC_021165.1	Ca_Kabuli_Chr06	9902988	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39770_A_9903062	NC_021165.1	Ca_Kabuli_Chr06	9903062	AA	GG	GG	INTERGENIC		
SNP_39771_A_9903135	NC_021165.1	Ca_Kabuli_Chr06	9903135	GG	AA	AA	INTERGENIC		
SNP_39772_A_9903148	NC_021165.1	Ca_Kabuli_Chr06	9903148	GG	CC	CC	INTERGENIC		
SNP_39773_A_9903221	NC_021165.1	Ca_Kabuli_Chr06	9903221	CC	TT	TT	INTERGENIC		
SNP_39774_A_9903229	NC_021165.1	Ca_Kabuli_Chr06	9903229	GG	AA	AA	INTERGENIC		
SNP_39775_A_9903240	NC_021165.1	Ca_Kabuli_Chr06	9903240	CC	TT	TT	INTERGENIC		
SNP_39776_A_9903345	NC_021165.1	Ca_Kabuli_Chr06	9903345	CC	GG	GG	INTERGENIC		
SNP_39778_A_9903395	NC_021165.1	Ca_Kabuli_Chr06	9903395	TT	CC	CC	INTERGENIC		
SNP_39779_A_9903416	NC_021165.1	Ca_Kabuli_Chr06	9903416	GG	AA	AA	INTERGENIC		
SNP_39780_A_9903455	NC_021165.1	Ca_Kabuli_Chr06	9903455	CC	TT	TT	INTERGENIC		
SNP_39781_A_9903478	NC_021165.1	Ca_Kabuli_Chr06	9903478	GG	AA	AA	INTERGENIC		
SNP_39782_A_9903500	NC_021165.1	Ca_Kabuli_Chr06	9903500	CC	AA	AA	INTERGENIC		
SNP_39783_A_9903516	NC_021165.1	Ca_Kabuli_Chr06	9903516	TT	AA	AA	INTERGENIC		
SNP_39784_A_9903517	NC_021165.1	Ca_Kabuli_Chr06	9903517	AA	TT	TT	INTERGENIC		
SNP_39785_A_9903564	NC_021165.1	Ca_Kabuli_Chr06	9903564	CC	TT	TT	INTERGENIC		
SNP_39786_A_9903717	NC_021165.1	Ca_Kabuli_Chr06	9903717	TT	CC	CC	INTERGENIC		
SNP_39787_A_9903736	NC_021165.1	Ca_Kabuli_Chr06	9903736	AA	GG	GG	INTERGENIC		
SNP_39788_A_9903770	NC_021165.1	Ca_Kabuli_Chr06	9903770	GG	AA	AA	INTERGENIC		
SNP_39789_A_9903792	NC_021165.1	Ca_Kabuli_Chr06	9903792	TT	CC	CC	INTERGENIC		
SNP_39790_A_9903878	NC_021165.1	Ca_Kabuli_Chr06	9903878	AA	GG	GG	INTERGENIC		
SNP_39791_A_9904919	NC_021165.1	Ca_Kabuli_Chr06	9904919	TT	CC	CC	INTERGENIC		
SNP_39792_A_9905863	NC_021165.1	Ca_Kabuli_Chr06	9905863	GG	AA	AA	DRR	101497431	uncharacterized LOC101497431

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_39793_A_9906171	NC_021165.1	Ca_Kabuli_Chr06	9906171	AA	TT	TT	DRR		101497431	uncharacterized LOC101497431
SNP_39794_A_9906680	NC_021165.1	Ca_Kabuli_Chr06	9906680	GG	AA	AA	DRR		101497431	uncharacterized LOC101497431
SNP_39795_A_9907181	NC_021165.1	Ca_Kabuli_Chr06	9907181	GG	AA	AA	URR		101497431	uncharacterized LOC101497431
SNP_39796_A_9907186	NC_021165.1	Ca_Kabuli_Chr06	9907186	CC	TT	TT	URR		101497431	uncharacterized LOC101497431
SNP_39797_A_9911698	NC_021165.1	Ca_Kabuli_Chr06	9911698	TT	GG	GG	URR		101497431	uncharacterized LOC101497431
SNP_39798_A_9913965	NC_021165.1	Ca_Kabuli_Chr06	9913965	CC	TT	TT	INTERGENIC			
SNP_39799_A_9914414	NC_021165.1	Ca_Kabuli_Chr06	9914414	AA	GG	GG	INTERGENIC			
SNP_39800_A_9914415	NC_021165.1	Ca_Kabuli_Chr06	9914415	CC	TT	TT	INTERGENIC			
SNP_39801_A_9914806	NC_021165.1	Ca_Kabuli_Chr06	9914806	TT	CC	CC	INTERGENIC			
SNP_39802_A_9918487	NC_021165.1	Ca_Kabuli_Chr06	9918487	AA	TT	TT	INTERGENIC			
SNP_39803_A_9918760	NC_021165.1	Ca_Kabuli_Chr06	9918760	TT	CC	CC	INTERGENIC			
SNP_39804_A_9918789	NC_021165.1	Ca_Kabuli_Chr06	9918789	GG	AA	AA	INTERGENIC			
SNP_39805_A_9918795	NC_021165.1	Ca_Kabuli_Chr06	9918795	TT	CC	CC	INTERGENIC			
SNP_39806_A_9919328	NC_021165.1	Ca_Kabuli_Chr06	9919328	TT	CC	CC	INTERGENIC			
SNP_39807_A_9922864	NC_021165.1	Ca_Kabuli_Chr06	9922864	CC	GG	GG	NON_SYNONYMOUS_CODING		101497765	two-component response regulator ARR14-like
SNP_39808_A_9923025	NC_021165.1	Ca_Kabuli_Chr06	9923025	GG	AA	AA	INTRON		101497765	two-component response regulator ARR14-like
SNP_39809_A_9923266	NC_021165.1	Ca_Kabuli_Chr06	9923266	CC	TT	TT	INTRON		101497765	two-component response regulator ARR14-like
SNP_39810_A_9923281	NC_021165.1	Ca_Kabuli_Chr06	9923281	TT	AA	AA	INTRON		101497765	two-component response regulator ARR14-like
SNP_39812_A_9926195	NC_021165.1	Ca_Kabuli_Chr06	9926195	CC	TT	TT	INTRON		101497765	two-component response regulator ARR14-like
SNP_39813_A_9927434	NC_021165.1	Ca_Kabuli_Chr06	9927434	CC	TT	TT	INTRON		101497765	two-component response regulator ARR14-like
SNP_39815_A_9937300	NC_021165.1	Ca_Kabuli_Chr06	9937300	TT	GG	GG	INTRON		101498088	probable LRR receptor-like serine/threonine-protein kinase MRH1
SNP_39816_A_9942534	NC_021165.1	Ca_Kabuli_Chr06	9942534	TT	CC	CC	URR		101498088	probable LRR receptor-like serine/threonine-protein kinase MRH1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_39817_A_9942687	NC_021165.1	Ca_Kabuli_Chr06	9942687	CC	TT	TT	DRR		101511686	CBL-interacting serine/threonine-protein kinase 12-like
SNP_39818_A_9942903	NC_021165.1	Ca_Kabuli_Chr06	9942903	GG	CC	CC	DRR		101511686	CBL-interacting serine/threonine-protein kinase 12-like
SNP_39819_A_9942904	NC_021165.1	Ca_Kabuli_Chr06	9942904	CC	TT	TT	DRR		101511686	CBL-interacting serine/threonine-protein kinase 12-like
SNP_39820_A_9942982	NC_021165.1	Ca_Kabuli_Chr06	9942982	TT	AA	AA	DRR		101511686	CBL-interacting serine/threonine-protein kinase 12-like
SNP_39821_A_9942987	NC_021165.1	Ca_Kabuli_Chr06	9942987	TT	GG	GG	DRR		101511686	CBL-interacting serine/threonine-protein kinase 12-like
SNP_39822_A_9949761	NC_021165.1	Ca_Kabuli_Chr06	9949761	AA	TT	TT	DRR		101498424	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 10-like
SNP_39823_A_9949762	NC_021165.1	Ca_Kabuli_Chr06	9949762	AA	TT	TT	DRR		101498424	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 10-like
SNP_39824_A_9950996	NC_021165.1	Ca_Kabuli_Chr06	9950996	CC	GG	GG	INTRON		101498424	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 10-like
SNP_39825_A_9954533	NC_021165.1	Ca_Kabuli_Chr06	9954533	TT	CC	CC	URR		101498424	protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 10-like
SNP_39826_A_9955933	NC_021165.1	Ca_Kabuli_Chr06	9955933	GG	AA	AA	INTERGENIC			
SNP_39827_A_9956447	NC_021165.1	Ca_Kabuli_Chr06	9956447	CC	GG	GG	INTERGENIC			
SNP_39828_A_9957478	NC_021165.1	Ca_Kabuli_Chr06	9957478	AA	CC	CC	INTERGENIC			
SNP_39829_A_9957489	NC_021165.1	Ca_Kabuli_Chr06	9957489	AA	TT	TT	INTERGENIC			
SNP_39831_A_9958147	NC_021165.1	Ca_Kabuli_Chr06	9958147	CC	AA	AA	INTERGENIC			
SNP_39832_A_9958435	NC_021165.1	Ca_Kabuli_Chr06	9958435	GG	AA	AA	INTERGENIC			
SNP_39833_A_9959354	NC_021165.1	Ca_Kabuli_Chr06	9959354	AA	TT	TT	DRR		101498762	protein transport protein Sec61 subunit beta-like
SNP_39834_A_9961396	NC_021165.1	Ca_Kabuli_Chr06	9961396	TT	CC	CC	URR		101498762	protein transport protein Sec61 subunit beta-like
SNP_39836_A_9961900	NC_021165.1	Ca_Kabuli_Chr06	9961900	GG	TT	TT	URR		101498762	protein transport protein Sec61 subunit beta-like
SNP_39837_A_9962295	NC_021165.1	Ca_Kabuli_Chr06	9962295	AA	GG	GG	INTERGENIC			
SNP_39838_A_9962592	NC_021165.1	Ca_Kabuli_Chr06	9962592	GG	AA	AA	INTERGENIC			
SNP_39839_A_9963476	NC_021165.1	Ca_Kabuli_Chr06	9963476	AA	GG	GG	INTERGENIC			
SNP_39840_A_9964753	NC_021165.1	Ca_Kabuli_Chr06	9964753	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39841_A_9965682	NC_021165.1	Ca_Kabuli_Chr06	9965682	AA	GG	GG	INTERGENIC		
SNP_39842_A_9977068	NC_021165.1	Ca_Kabuli_Chr06	9977068	GG	AA	AA	NON_SYNONYMOUS_CODING	101512005	Unknown function
SNP_39843_A_9977116	NC_021165.1	Ca_Kabuli_Chr06	9977116	TT	CC	CC	NON_SYNONYMOUS_CODING	101512005	Unknown function
SNP_39844_A_9978641	NC_021165.1	Ca_Kabuli_Chr06	9978641	AA	GG	GG	URR	101512005	Unknown function
SNP_39845_A_9978645	NC_021165.1	Ca_Kabuli_Chr06	9978645	AA	GG	GG	URR	101512005	Unknown function
SNP_39846_A_9986255	NC_021165.1	Ca_Kabuli_Chr06	9986255	TT	CC	CC	INTERGENIC		
SNP_39847_A_9986704	NC_021165.1	Ca_Kabuli_Chr06	9986704	TT	CC	CC	INTERGENIC		
SNP_39848_A_9986705	NC_021165.1	Ca_Kabuli_Chr06	9986705	TT	CC	CC	INTERGENIC		
SNP_39849_A_9986879	NC_021165.1	Ca_Kabuli_Chr06	9986879	TT	CC	CC	INTERGENIC		
SNP_39850_A_9987055	NC_021165.1	Ca_Kabuli_Chr06	9987055	AA	GG	GG	INTERGENIC		
SNP_39852_A_9987148	NC_021165.1	Ca_Kabuli_Chr06	9987148	AA	GG	GG	DRR	101499086	protein SCAR1-like
SNP_39853_A_9987639	NC_021165.1	Ca_Kabuli_Chr06	9987639	TT	CC	CC	DRR	101499086	protein SCAR1-like
SNP_39854_A_9991397	NC_021165.1	Ca_Kabuli_Chr06	9991397	AA	GG	GG	SYNONYMOUS_CODING	101499086	protein SCAR1-like
SNP_39855_A_9991537	NC_021165.1	Ca_Kabuli_Chr06	9991537	CC	TT	TT	SYNONYMOUS_CODING	101499086	protein SCAR1-like
SNP_39856_A_9994292	NC_021165.1	Ca_Kabuli_Chr06	9994292	TT	GG	GG	INTRON	101499086	protein SCAR1-like
SNP_39857_A_9995375	NC_021165.1	Ca_Kabuli_Chr06	9995375	GG	AA	AA	URR	101499086	protein SCAR1-like
SNP_39858_A_9995744	NC_021165.1	Ca_Kabuli_Chr06	9995744	CC	GG	GG	URR	101499086	protein SCAR1-like
SNP_39859_A_9996051	NC_021165.1	Ca_Kabuli_Chr06	9996051	TT	CC	CC	URR	101499086	protein SCAR1-like
SNP_39860_A_9996097	NC_021165.1	Ca_Kabuli_Chr06	9996097	CC	GG	GG	URR	101499086	protein SCAR1-like
SNP_39861_A_9997515	NC_021165.1	Ca_Kabuli_Chr06	9997515	TT	CC	CC	INTERGENIC		
SNP_39862_A_9999024	NC_021165.1	Ca_Kabuli_Chr06	9999024	AA	TT	TT	INTERGENIC		
SNP_39863_A_9999129	NC_021165.1	Ca_Kabuli_Chr06	9999129	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39864_A_10000212	NC_021165.1	Ca_Kabuli_Chr06	10000212	CC	TT	TT	INTERGENIC		
SNP_39865_A_10001718	NC_021165.1	Ca_Kabuli_Chr06	10001718	CC	TT	TT	INTERGENIC		
SNP_39867_A_10002366	NC_021165.1	Ca_Kabuli_Chr06	10002366	AA	CC	CC	INTERGENIC		
SNP_39869_A_10006910	NC_021165.1	Ca_Kabuli_Chr06	10006910	AA	GG	GG	DRR	101500358	14-3-3-like protein C
SNP_39870_A_10006968	NC_021165.1	Ca_Kabuli_Chr06	10006968	CC	AA	AA	DRR	101500358	14-3-3-like protein C
SNP_39871_A_10007018	NC_021165.1	Ca_Kabuli_Chr06	10007018	GG	AA	AA	DRR	101500358	14-3-3-like protein C
SNP_39872_A_10007220	NC_021165.1	Ca_Kabuli_Chr06	10007220	AA	GG	GG	DRR	101500358	14-3-3-like protein C
SNP_39873_A_10007637	NC_021165.1	Ca_Kabuli_Chr06	10007637	GG	AA	AA	DRR	101500358	14-3-3-like protein C
SNP_39874_A_10012321	NC_021165.1	Ca_Kabuli_Chr06	10012321	AA	TT	TT	DRR	101499907	uncharacterized LOC101499907
SNP_39876_A_10013091	NC_021165.1	Ca_Kabuli_Chr06	10013091	CC	AA	AA	INTERGENIC		
SNP_39877_A_10014964	NC_021165.1	Ca_Kabuli_Chr06	10014964	TT	GG	GG	INTRON	101499907	uncharacterized LOC101499907
SNP_39878_A_10017945	NC_021165.1	Ca_Kabuli_Chr06	10017945	AA	GG	GG	INTERGENIC		
SNP_39879_A_10017948	NC_021165.1	Ca_Kabuli_Chr06	10017948	CC	AA	AA	INTERGENIC		
SNP_39880_A_10025995	NC_021165.1	Ca_Kabuli_Chr06	10025995	GG	AA	AA	INTERGENIC		
SNP_39881_A_10026000	NC_021165.1	Ca_Kabuli_Chr06	10026000	CC	TT	TT	INTERGENIC		
SNP_39882_A_10026033	NC_021165.1	Ca_Kabuli_Chr06	10026033	GG	TT	TT	INTERGENIC		
SNP_39883_A_10033386	NC_021165.1	Ca_Kabuli_Chr06	10033386	TT	CC	CC	URR	101500984	mitochondrial dicarboxylate/tricarboxylate transporter DTC
SNP_39884_A_10033622	NC_021165.1	Ca_Kabuli_Chr06	10033622	GG	AA	AA	URR	101500984	mitochondrial dicarboxylate/tricarboxylate transporter DTC
SNP_39885_A_10038763	NC_021165.1	Ca_Kabuli_Chr06	10038763	AA	TT	TT	DRR	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39886_A_10040330	NC_021165.1	Ca_Kabuli_Chr06	10040330	CC	TT	TT	URR	101501297	uncharacterized LOC101501297
SNP_39887_A_10040340	NC_021165.1	Ca_Kabuli_Chr06	10040340	CC	TT	TT	URR	101501297	uncharacterized LOC101501297
SNP_39888_A_10041985	NC_021165.1	Ca_Kabuli_Chr06	10041985	AA	TT	TT	INTRON	101501829	probable acyl-activating enzyme 18, peroxisomal

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39889_A_10042391	NC_021165.1	Ca_Kabuli_Chr06	10042391	TT	CC	CC	INTRON	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39890_A_10042425	NC_021165.1	Ca_Kabuli_Chr06	10042425	GG	TT	TT	INTRON	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39891_A_10042427	NC_021165.1	Ca_Kabuli_Chr06	10042427	AA	GG	GG	INTRON	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39893_A_10046155	NC_021165.1	Ca_Kabuli_Chr06	10046155	TT	GG	GG	URR	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39894_A_10046157	NC_021165.1	Ca_Kabuli_Chr06	10046157	TT	CC	CC	URR	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39895_A_10046159	NC_021165.1	Ca_Kabuli_Chr06	10046159	AA	GG	GG	URR	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39896_A_10047770	NC_021165.1	Ca_Kabuli_Chr06	10047770	TT	CC	CC	URR	101501829	probable acyl-activating enzyme 18, peroxisomal
SNP_39897_A_10048835	NC_021165.1	Ca_Kabuli_Chr06	10048835	TT	AA	AA	INTERGENIC		
SNP_39900_A_10050434	NC_021165.1	Ca_Kabuli_Chr06	10050434	AA	CC	CC	INTERGENIC		
SNP_39901_A_10055409	NC_021165.1	Ca_Kabuli_Chr06	10055409	CC	AA	AA	URR	101502676	ocs element-binding factor 1-like
SNP_39902_A_10056965	NC_021165.1	Ca_Kabuli_Chr06	10056965	GG	TT	TT	URR	101502371	uncharacterized LOC101502371
SNP_39903_A_10056992	NC_021165.1	Ca_Kabuli_Chr06	10056992	TT	GG	GG	URR	101502371	uncharacterized LOC101502371
SNP_39904_A_10058425	NC_021165.1	Ca_Kabuli_Chr06	10058425	AA	GG	GG	INTERGENIC		
SNP_39905_A_10061377	NC_021165.1	Ca_Kabuli_Chr06	10061377	TT	CC	CC	INTERGENIC		
SNP_39907_A_10061439	NC_021165.1	Ca_Kabuli_Chr06	10061439	AA	GG	GG	INTERGENIC		
SNP_39908_A_10061460	NC_021165.1	Ca_Kabuli_Chr06	10061460	TT	GG	GG	INTERGENIC		
SNP_39910_A_10061564	NC_021165.1	Ca_Kabuli_Chr06	10061564	GG	AA	AA	INTERGENIC		
SNP_39911_A_10062461	NC_021165.1	Ca_Kabuli_Chr06	10062461	TT	CC	CC	INTERGENIC		
SNP_39912_A_10080143	NC_021165.1	Ca_Kabuli_Chr06	10080143	GG	TT	TT	INTERGENIC		
SNP_39913_A_10085816	NC_021165.1	Ca_Kabuli_Chr06	10085816	AA	GG	GG	INTERGENIC		
SNP_39914_A_10089391	NC_021165.1	Ca_Kabuli_Chr06	10089391	GG	AA	AA	INTERGENIC		
SNP_39915_A_10093900	NC_021165.1	Ca_Kabuli_Chr06	10093900	GG	AA	AA	URR	101503308	ethylene-responsive transcription factor RAP2-11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39916_A_10103147	NC_021165.1	Ca_Kabuli_Chr06	10103147	TT	AA	AA	URR	101503642	importin-5
SNP_39919_A_10107996	NC_021165.1	Ca_Kabuli_Chr06	10107996	AA	TT	TT	DRR	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39920_A_10110894	NC_021165.1	Ca_Kabuli_Chr06	10110894	GG	AA	AA	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39921_A_10111126	NC_021165.1	Ca_Kabuli_Chr06	10111126	CC	TT	TT	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39922_A_10112956	NC_021165.1	Ca_Kabuli_Chr06	10112956	TT	CC	CC	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39923_A_10114956	NC_021165.1	Ca_Kabuli_Chr06	10114956	TT	CC	CC	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39924_A_10114958	NC_021165.1	Ca_Kabuli_Chr06	10114958	CC	TT	TT	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39925_A_10115728	NC_021165.1	Ca_Kabuli_Chr06	10115728	TT	CC	CC	INTRON	101504186	peptidyl-IRNA hydrolase, mitochondrial
SNP_39926_A_10121872	NC_021165.1	Ca_Kabuli_Chr06	10121872	GG	TT	TT	INTERGENIC		
SNP_39927_A_10121887	NC_021165.1	Ca_Kabuli_Chr06	10121887	GG	AA	AA	INTERGENIC		
SNP_39928_A_10121999	NC_021165.1	Ca_Kabuli_Chr06	10121999	CC	TT	TT	INTERGENIC		
SNP_39929_A_10123042	NC_021165.1	Ca_Kabuli_Chr06	10123042	TT	CC	CC	INTERGENIC		
SNP_39930_A_10123088	NC_021165.1	Ca_Kabuli_Chr06	10123088	GG	AA	AA	INTERGENIC		
SNP_39931_A_10123104	NC_021165.1	Ca_Kabuli_Chr06	10123104	AA	GG	GG	INTERGENIC		
SNP_39932_A_10123109	NC_021165.1	Ca_Kabuli_Chr06	10123109	AA	GG	GG	INTERGENIC		
SNP_39933_A_10123110	NC_021165.1	Ca_Kabuli_Chr06	10123110	TT	CC	CC	INTERGENIC		
SNP_39934_A_10123336	NC_021165.1	Ca_Kabuli_Chr06	10123336	TT	GG	GG	INTERGENIC		
SNP_39935_A_10123340	NC_021165.1	Ca_Kabuli_Chr06	10123340	AA	GG	GG	INTERGENIC		
SNP_39937_A_10128586	NC_021165.1	Ca_Kabuli_Chr06	10128586	AA	GG	GG	INTERGENIC		
SNP_39938_A_10130692	NC_021165.1	Ca_Kabuli_Chr06	10130692	CC	TT	TT	INTERGENIC		
SNP_39939_A_10131481	NC_021165.1	Ca_Kabuli_Chr06	10131481	AA	TT	TT	INTERGENIC		
SNP_39940_A_10131762	NC_021165.1	Ca_Kabuli_Chr06	10131762	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39941_A_10131794	NC_021165.1	Ca_Kabuli_Chr06	10131794	GG	AA	AA	INTERGENIC		
SNP_39942_A_10131799	NC_021165.1	Ca_Kabuli_Chr06	10131799	AA	GG	GG	INTERGENIC		
SNP_39944_A_10137673	NC_021165.1	Ca_Kabuli_Chr06	10137673	TT	AA	AA	INTRON	101504515	uncharacterized LOC101504515
SNP_39945_A_10138160	NC_021165.1	Ca_Kabuli_Chr06	10138160	TT	CC	CC	SYNONYMOUS_CODING	101504515	uncharacterized LOC101504515
SNP_39946_A_10139506	NC_021165.1	Ca_Kabuli_Chr06	10139506	GG	TT	TT	URR	101504515	uncharacterized LOC101504515
SNP_39947_A_10146976	NC_021165.1	Ca_Kabuli_Chr06	10146976	GG	AA	AA	URR	101504830	uncharacterized LOC101504830
SNP_39948_A_10146990	NC_021165.1	Ca_Kabuli_Chr06	10146990	GG	AA	AA	URR	101504830	uncharacterized LOC101504830
SNP_39949_A_10147363	NC_021165.1	Ca_Kabuli_Chr06	10147363	AA	GG	GG	URR	101504830	uncharacterized LOC101504830
SNP_39950_A_10149941	NC_021165.1	Ca_Kabuli_Chr06	10149941	AA	GG	GG	DRR	101505568	uncharacterized LOC101505568
SNP_39951_A_10153601	NC_021165.1	Ca_Kabuli_Chr06	10153601	AA	GG	GG	INTERGENIC		
SNP_39952_A_10154186	NC_021165.1	Ca_Kabuli_Chr06	10154186	TT	AA	AA	URR	101505568	uncharacterized LOC101505568
SNP_39953_A_10155109	NC_021165.1	Ca_Kabuli_Chr06	10155109	AA	TT	TT	URR	101505568	uncharacterized LOC101505568
SNP_39954_A_10155264	NC_021165.1	Ca_Kabuli_Chr06	10155264	CC	TT	TT	URR	101505568	uncharacterized LOC101505568
SNP_39955_A_10158850	NC_021165.1	Ca_Kabuli_Chr06	10158850	CC	TT	TT	INTRON	101506112	protochlorophyllide-dependent translocon component 52, chloroplastic
SNP_39956_A_10160127	NC_021165.1	Ca_Kabuli_Chr06	10160127	TT	CC	CC	URR	101506112	protochlorophyllide-dependent translocon component 52, chloroplastic
SNP_39957_A_10160128	NC_021165.1	Ca_Kabuli_Chr06	10160128	TT	AA	AA	URR	101506112	protochlorophyllide-dependent translocon component 52, chloroplastic
SNP_39958_A_10162967	NC_021165.1	Ca_Kabuli_Chr06	10162967	GG	AA	AA	INTERGENIC		
SNP_39959_A_10162970	NC_021165.1	Ca_Kabuli_Chr06	10162970	CC	TT	TT	INTERGENIC		
SNP_39960_A_10163225	NC_021165.1	Ca_Kabuli_Chr06	10163225	AA	GG	GG	INTERGENIC		
SNP_39961_A_10163250	NC_021165.1	Ca_Kabuli_Chr06	10163250	TT	AA	AA	INTERGENIC		
SNP_39962_A_10163274	NC_021165.1	Ca_Kabuli_Chr06	10163274	GG	TT	TT	INTERGENIC		
SNP_39964_A_10163440	NC_021165.1	Ca_Kabuli_Chr06	10163440	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39965_A_10163458	NC_021165.1	Ca_Kabuli_Chr06	10163458	GG	TT	TT	INTERGENIC		
SNP_39966_A_10163539	NC_021165.1	Ca_Kabuli_Chr06	10163539	CC	TT	TT	INTERGENIC		
SNP_39967_A_10163542	NC_021165.1	Ca_Kabuli_Chr06	10163542	AA	GG	GG	INTERGENIC		
SNP_39970_A_10179212	NC_021165.1	Ca_Kabuli_Chr06	10179212	AA	GG	GG	INTRON	101507103	glucan endo-1,3-beta-glucosidase 4
SNP_39972_A_10180797	NC_021165.1	Ca_Kabuli_Chr06	10180797	CC	TT	TT	DRR	101507424	uncharacterized LOC101507424
SNP_39973_A_10184330	NC_021165.1	Ca_Kabuli_Chr06	10184330	GG	AA	AA	INTERGENIC		
SNP_39974_A_10184521	NC_021165.1	Ca_Kabuli_Chr06	10184521	GG	AA	AA	INTERGENIC		
SNP_39975_A_10184736	NC_021165.1	Ca_Kabuli_Chr06	10184736	AA	GG	GG	INTERGENIC		
SNP_39976_A_10184738	NC_021165.1	Ca_Kabuli_Chr06	10184738	CC	GG	GG	INTERGENIC		
SNP_39977_A_10185397	NC_021165.1	Ca_Kabuli_Chr06	10185397	AA	GG	GG	INTERGENIC		
SNP_39979_A_10185472	NC_021165.1	Ca_Kabuli_Chr06	10185472	CC	AA	AA	INTERGENIC		
SNP_39980_A_10185486	NC_021165.1	Ca_Kabuli_Chr06	10185486	TT	GG	GG	INTERGENIC		
SNP_39981_A_10185525	NC_021165.1	Ca_Kabuli_Chr06	10185525	CC	TT	TT	INTERGENIC		
SNP_39982_A_10186123	NC_021165.1	Ca_Kabuli_Chr06	10186123	CC	TT	TT	DRR	101507732	constitutive photomorphogenesis protein 10
SNP_39983_A_10186132	NC_021165.1	Ca_Kabuli_Chr06	10186132	CC	TT	TT	DRR	101507732	constitutive photomorphogenesis protein 10
SNP_39984_A_10186178	NC_021165.1	Ca_Kabuli_Chr06	10186178	TT	CC	CC	DRR	101507732	constitutive photomorphogenesis protein 10
SNP_39985_A_10186445	NC_021165.1	Ca_Kabuli_Chr06	10186445	CC	TT	TT	DRR	101507732	constitutive photomorphogenesis protein 10
SNP_39986_A_10186457	NC_021165.1	Ca_Kabuli_Chr06	10186457	AA	TT	TT	DRR	101507732	constitutive photomorphogenesis protein 10
SNP_39987_A_10188880	NC_021165.1	Ca_Kabuli_Chr06	10188880	CC	TT	TT	DRR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39989_A_10192621	NC_021165.1	Ca_Kabuli_Chr06	10192621	CC	TT	TT	INTERGENIC		
SNP_39990_A_10192683	NC_021165.1	Ca_Kabuli_Chr06	10192683	AA	GG	GG	INTERGENIC		
SNP_39991_A_10192705	NC_021165.1	Ca_Kabuli_Chr06	10192705	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_39992_A_10192734	NC_021165.1	Ca_Kabuli_Chr06	10192734	CC	TT	TT	INTERGENIC		
SNP_39993_A_10195870	NC_021165.1	Ca_Kabuli_Chr06	10195870	AA	TT	TT	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39994_A_10195935	NC_021165.1	Ca_Kabuli_Chr06	10195935	AA	GG	GG	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39995_A_10195943	NC_021165.1	Ca_Kabuli_Chr06	10195943	TT	CC	CC	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39996_A_10196167	NC_021165.1	Ca_Kabuli_Chr06	10196167	CC	TT	TT	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39997_A_10196175	NC_021165.1	Ca_Kabuli_Chr06	10196175	TT	CC	CC	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39998_A_10196849	NC_021165.1	Ca_Kabuli_Chr06	10196849	AA	GG	GG	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_39999_A_10197272	NC_021165.1	Ca_Kabuli_Chr06	10197272	TT	GG	GG	URR	101508054	probable acyl-activating enzyme 18, peroxisomal
SNP_40000_A_10199567	NC_021165.1	Ca_Kabuli_Chr06	10199567	GG	AA	AA	INTERGENIC		
SNP_40001_A_10200699	NC_021165.1	Ca_Kabuli_Chr06	10200699	TT	GG	GG	INTERGENIC		
SNP_40002_A_10204349	NC_021165.1	Ca_Kabuli_Chr06	10204349	TT	CC	CC	URR	101508373	F-box/kelch-repeat protein At2g44130-like
SNP_40003_A_10204353	NC_021165.1	Ca_Kabuli_Chr06	10204353	TT	CC	CC	URR	101508373	F-box/kelch-repeat protein At2g44130-like
SNP_40004_A_10204416	NC_021165.1	Ca_Kabuli_Chr06	10204416	CC	TT	TT	URR	101508373	F-box/kelch-repeat protein At2g44130-like
SNP_40005_A_10205440	NC_021165.1	Ca_Kabuli_Chr06	10205440	TT	CC	CC	URR	101508373	F-box/kelch-repeat protein At2g44130-like
SNP_40006_A_10205647	NC_021165.1	Ca_Kabuli_Chr06	10205647	AA	TT	TT	INTERGENIC		
SNP_40007_A_10205785	NC_021165.1	Ca_Kabuli_Chr06	10205785	AA	GG	GG	INTERGENIC		
SNP_40008_A_10206335	NC_021165.1	Ca_Kabuli_Chr06	10206335	GG	AA	AA	INTERGENIC		
SNP_40009_A_10207731	NC_021165.1	Ca_Kabuli_Chr06	10207731	CC	GG	GG	INTERGENIC		
SNP_40010_A_10207989	NC_021165.1	Ca_Kabuli_Chr06	10207989	TT	AA	AA	INTERGENIC		
SNP_40011_A_10208077	NC_021165.1	Ca_Kabuli_Chr06	10208077	GG	TT	TT	INTERGENIC		
SNP_40012_A_10208135	NC_021165.1	Ca_Kabuli_Chr06	10208135	CC	TT	TT	INTERGENIC		
SNP_40013_A_10208182	NC_021165.1	Ca_Kabuli_Chr06	10208182	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40014_A_10208200	NC_021165.1	Ca_Kabuli_Chr06	10208200	AA	GG	GG	INTERGENIC		
SNP_40015_A_10208336	NC_021165.1	Ca_Kabuli_Chr06	10208336	TT	GG	GG	INTERGENIC		
SNP_40017_A_10208632	NC_021165.1	Ca_Kabuli_Chr06	10208632	CC	TT	TT	INTERGENIC		
SNP_40018_A_10208942	NC_021165.1	Ca_Kabuli_Chr06	10208942	TT	CC	CC	DRR	101508686	translation initiation factor eIF-2B subunit gamma
SNP_40019_A_10209025	NC_021165.1	Ca_Kabuli_Chr06	10209025	GG	AA	AA	DRR	101508686	translation initiation factor eIF-2B subunit gamma
SNP_40020_A_10209217	NC_021165.1	Ca_Kabuli_Chr06	10209217	TT	AA	AA	DRR	101508686	translation initiation factor eIF-2B subunit gamma
SNP_40021_A_10209232	NC_021165.1	Ca_Kabuli_Chr06	10209232	TT	AA	AA	DRR	101508686	translation initiation factor eIF-2B subunit gamma
SNP_40023_A_10209927	NC_021165.1	Ca_Kabuli_Chr06	10209927	GG	TT	TT	INTERGENIC		
SNP_40024_A_10209993	NC_021165.1	Ca_Kabuli_Chr06	10209993	TT	CC	CC	INTERGENIC		
SNP_40025_A_10217071	NC_021165.1	Ca_Kabuli_Chr06	10217071	TT	CC	CC	URR	101509005	probable polyamine transporter At3g13620
SNP_40026_A_10218341	NC_021165.1	Ca_Kabuli_Chr06	10218341	TT	GG	GG	INTERGENIC		
SNP_40027_A_10218685	NC_021165.1	Ca_Kabuli_Chr06	10218685	TT	AA	AA	DRR	101410606	transfer RNA glycine (anticodon UCC)
SNP_40028_A_10219159	NC_021165.1	Ca_Kabuli_Chr06	10219159	TT	CC	CC	DRR	101410606	transfer RNA glycine (anticodon UCC)
SNP_40029_A_10220112	NC_021165.1	Ca_Kabuli_Chr06	10220112	CC	AA	AA	URR	101410606	transfer RNA glycine (anticodon UCC)
SNP_40030_A_10222944	NC_021165.1	Ca_Kabuli_Chr06	10222944	TT	CC	CC	URR	101509324	uncharacterized LOC101509324
SNP_40032_A_10224942	NC_021165.1	Ca_Kabuli_Chr06	10224942	TT	GG	GG	DRR	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40033_A_10224976	NC_021165.1	Ca_Kabuli_Chr06	10224976	TT	AA	AA	DRR	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40034_A_10225992	NC_021165.1	Ca_Kabuli_Chr06	10225992	CC	TT	TT	INTERGENIC		
SNP_40035_A_10226669	NC_021165.1	Ca_Kabuli_Chr06	10226669	GG	AA	AA	INTERGENIC		
SNP_40036_A_10230309	NC_021165.1	Ca_Kabuli_Chr06	10230309	AA	GG	GG	INTRON	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40037_A_10230314	NC_021165.1	Ca_Kabuli_Chr06	10230314	AA	GG	GG	INTRON	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40038_A_10232759	NC_021165.1	Ca_Kabuli_Chr06	10232759	GG	TT	TT	INTRON	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40039_A_10238424	NC_021165.1	Ca_Kabuli_Chr06	10238424	GG	AA	AA	URR	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40040_A_10238434	NC_021165.1	Ca_Kabuli_Chr06	10238434	GG	AA	AA	URR	101509639	serine/threonine-protein phosphatase PP2A catalytic subunit
SNP_40041_A_10241578	NC_021165.1	Ca_Kabuli_Chr06	10241578	TT	CC	CC	INTERGENIC		
SNP_40042_A_10241741	NC_021165.1	Ca_Kabuli_Chr06	10241741	TT	CC	CC	INTERGENIC		
SNP_40043_A_10241746	NC_021165.1	Ca_Kabuli_Chr06	10241746	AA	TT	TT	INTERGENIC		
SNP_40044_A_10241753	NC_021165.1	Ca_Kabuli_Chr06	10241753	GG	AA	AA	INTERGENIC		
SNP_40045_A_10241784	NC_021165.1	Ca_Kabuli_Chr06	10241784	CC	TT	TT	INTERGENIC		
SNP_40046_A_10241815	NC_021165.1	Ca_Kabuli_Chr06	10241815	TT	AA	AA	INTERGENIC		
SNP_40047_A_10241882	NC_021165.1	Ca_Kabuli_Chr06	10241882	TT	GG	GG	INTERGENIC		
SNP_40048_A_10241887	NC_021165.1	Ca_Kabuli_Chr06	10241887	TT	AA	AA	INTERGENIC		
SNP_40049_A_10241888	NC_021165.1	Ca_Kabuli_Chr06	10241888	TT	AA	AA	INTERGENIC		
SNP_40050_A_10241890	NC_021165.1	Ca_Kabuli_Chr06	10241890	CC	TT	TT	INTERGENIC		
SNP_40051_A_10241896	NC_021165.1	Ca_Kabuli_Chr06	10241896	AA	TT	TT	INTERGENIC		
SNP_40052_A_10242259	NC_021165.1	Ca_Kabuli_Chr06	10242259	GG	TT	TT	INTERGENIC		
SNP_40053_A_10242266	NC_021165.1	Ca_Kabuli_Chr06	10242266	GG	AA	AA	INTERGENIC		
SNP_40054_A_10242277	NC_021165.1	Ca_Kabuli_Chr06	10242277	TT	CC	CC	INTERGENIC		
SNP_40055_A_10243028	NC_021165.1	Ca_Kabuli_Chr06	10243028	GG	CC	CC	INTERGENIC		
SNP_40056_A_10243029	NC_021165.1	Ca_Kabuli_Chr06	10243029	AA	GG	GG	INTERGENIC		
SNP_40057_A_10245641	NC_021165.1	Ca_Kabuli_Chr06	10245641	TT	AA	AA	INTRON	101510171	F-box/kelch-repeat protein At1g55270
SNP_40058_A_10246667	NC_021165.1	Ca_Kabuli_Chr06	10246667	CC	TT	TT	INTRON	101510171	F-box/kelch-repeat protein At1g55270
SNP_40059_A_10247127	NC_021165.1	Ca_Kabuli_Chr06	10247127	CC	TT	TT	INTRON	101510171	F-box/kelch-repeat protein At1g55270
SNP_40060_A_10249869	NC_021165.1	Ca_Kabuli_Chr06	10249869	TT	AA	AA	URR	101510171	F-box/kelch-repeat protein At1g55270

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40061_A_10250800	NC_021165.1	Ca_Kabuli_Chr06	10250800	CC	TT	TT	URR	101510171	F-box/kelch-repeat protein At1g55270
SNP_40062_A_10250919	NC_021165.1	Ca_Kabuli_Chr06	10250919	AA	GG	GG	DRR	101510496	uncharacterized LOC101510496
SNP_40064_A_10251559	NC_021165.1	Ca_Kabuli_Chr06	10251559	GG	AA	AA	DRR	101510496	uncharacterized LOC101510496
SNP_40067_A_10255412	NC_021165.1	Ca_Kabuli_Chr06	10255412	TT	CC	CC	URR	101510496	uncharacterized LOC101510496
SNP_40068_A_10255426	NC_021165.1	Ca_Kabuli_Chr06	10255426	TT	AA	AA	URR	101510496	uncharacterized LOC101510496
SNP_40069_A_10255427	NC_021165.1	Ca_Kabuli_Chr06	10255427	CC	AA	AA	URR	101510496	uncharacterized LOC101510496
SNP_40070_A_10257204	NC_021165.1	Ca_Kabuli_Chr06	10257204	AA	GG	GG	URR	101510496	uncharacterized LOC101510496
SNP_40072_A_10259467	NC_021165.1	Ca_Kabuli_Chr06	10259467	CC	AA	AA	INTERGENIC		
SNP_40073_A_10263769	NC_021165.1	Ca_Kabuli_Chr06	10263769	GG	AA	AA	URR	101510824	mediator of RNA polymerase II transcription subunit 10b-like
SNP_40074_A_10263777	NC_021165.1	Ca_Kabuli_Chr06	10263777	AA	GG	GG	URR	101510824	mediator of RNA polymerase II transcription subunit 10b-like
SNP_40075_A_10264404	NC_021165.1	Ca_Kabuli_Chr06	10264404	AA	GG	GG	URR	101510824	mediator of RNA polymerase II transcription subunit 10b-like
SNP_40076_A_10264603	NC_021165.1	Ca_Kabuli_Chr06	10264603	TT	CC	CC	URR	101510824	mediator of RNA polymerase II transcription subunit 10b-like
SNP_40077_A_10264800	NC_021165.1	Ca_Kabuli_Chr06	10264800	AA	GG	GG	INTERGENIC		
SNP_40079_A_10269272	NC_021165.1	Ca_Kabuli_Chr06	10269272	CC	TT	TT	INTERGENIC		
SNP_40080_A_10270322	NC_021165.1	Ca_Kabuli_Chr06	10270322	CC	TT	TT	URR	101511359	chromatin-remodeling complex subunit ies6
SNP_40082_A_10273739	NC_021165.1	Ca_Kabuli_Chr06	10273739	CC	TT	TT	DRR	101511900	protein YLS3-like
SNP_40083_A_10273833	NC_021165.1	Ca_Kabuli_Chr06	10273833	GG	CC	CC	INTERGENIC		
SNP_40084_A_10274201	NC_021165.1	Ca_Kabuli_Chr06	10274201	AA	GG	GG	INTERGENIC		
SNP_40086_A_10275577	NC_021165.1	Ca_Kabuli_Chr06	10275577	CC	TT	TT	URR	101511900	protein YLS3-like
SNP_40087_A_10279387	NC_021165.1	Ca_Kabuli_Chr06	10279387	AA	TT	TT	URR	101512227	thiamine thiazole synthase, chloroplastic-like
SNP_40088_A_10280568	NC_021165.1	Ca_Kabuli_Chr06	10280568	TT	GG	GG	URR	101512227	thiamine thiazole synthase, chloroplastic-like
SNP_40089_A_10280581	NC_021165.1	Ca_Kabuli_Chr06	10280581	GG	AA	AA	URR	101512227	thiamine thiazole synthase, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40090_A_10280610	NC_021165.1	Ca_Kabuli_Chr06	10280610	AA	GG	GG	URR	101512227	thiamine thiazole synthase, chloroplastic-like
SNP_40091_A_10280636	NC_021165.1	Ca_Kabuli_Chr06	10280636	AA	CC	CC	URR	101512227	thiamine thiazole synthase, chloroplastic-like
SNP_40092_A_10282208	NC_021165.1	Ca_Kabuli_Chr06	10282208	AA	GG	GG	INTERGENIC		
SNP_40093_A_10282454	NC_021165.1	Ca_Kabuli_Chr06	10282454	GG	AA	AA	INTERGENIC		
SNP_40094_A_10282514	NC_021165.1	Ca_Kabuli_Chr06	10282514	TT	AA	AA	INTERGENIC		
SNP_40095_A_10282550	NC_021165.1	Ca_Kabuli_Chr06	10282550	CC	TT	TT	INTERGENIC		
SNP_40096_A_10286720	NC_021165.1	Ca_Kabuli_Chr06	10286720	TT	CC	CC	URR	101512553	protein YLS3-like
SNP_40097_A_10293344	NC_021165.1	Ca_Kabuli_Chr06	10293344	CC	GG	GG	INTERGENIC		
SNP_40098_A_10297726	NC_021165.1	Ca_Kabuli_Chr06	10297726	TT	CC	CC	INTERGENIC		
SNP_40099_A_10297727	NC_021165.1	Ca_Kabuli_Chr06	10297727	AA	GG	GG	INTERGENIC		
SNP_40100_A_10298539	NC_021165.1	Ca_Kabuli_Chr06	10298539	CC	GG	GG	DRR	101512966	putative RING-H2 finger protein ATL53
SNP_40101_A_10300295	NC_021165.1	Ca_Kabuli_Chr06	10300295	TT	CC	CC	URR	101512966	putative RING-H2 finger protein ATL53
SNP_40102_A_10304535	NC_021165.1	Ca_Kabuli_Chr06	10304535	AA	GG	GG	URR	101513293	Unknown function
SNP_40103_A_10304694	NC_021165.1	Ca_Kabuli_Chr06	10304694	AA	TT	TT	URR	101513293	Unknown function
SNP_40104_A_10304703	NC_021165.1	Ca_Kabuli_Chr06	10304703	CC	TT	TT	URR	101513293	Unknown function
SNP_40105_A_10305916	NC_021165.1	Ca_Kabuli_Chr06	10305916	GG	TT	TT	INTERGENIC		
SNP_40106_A_10306222	NC_021165.1	Ca_Kabuli_Chr06	10306222	AA	TT	TT	INTERGENIC		
SNP_40107_A_10306850	NC_021165.1	Ca_Kabuli_Chr06	10306850	TT	GG	GG	INTERGENIC		
SNP_40108_A_10307075	NC_021165.1	Ca_Kabuli_Chr06	10307075	AA	TT	TT	INTERGENIC		
SNP_40109_A_10307113	NC_021165.1	Ca_Kabuli_Chr06	10307113	GG	TT	TT	INTERGENIC		
SNP_40110_A_10307296	NC_021165.1	Ca_Kabuli_Chr06	10307296	TT	CC	CC	INTERGENIC		
SNP_40111_A_10307655	NC_021165.1	Ca_Kabuli_Chr06	10307655	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40112_A_10307944	NC_021165.1	Ca_Kabuli_Chr06	10307944	AA	GG	GG	INTERGENIC			
SNP_40113_A_10308070	NC_021165.1	Ca_Kabuli_Chr06	10308070	AA	GG	GG	INTERGENIC			
SNP_40114_A_10309150	NC_021165.1	Ca_Kabuli_Chr06	10309150	GG	AA	AA	INTERGENIC			
SNP_40116_A_10317808	NC_021165.1	Ca_Kabuli_Chr06	10317808	TT	GG	GG	URR	101512857	uncharacterized LOC101512857	
SNP_40118_A_10327127	NC_021165.1	Ca_Kabuli_Chr06	10327127	CC	TT	TT	INTERGENIC			
SNP_40119_A_10329800	NC_021165.1	Ca_Kabuli_Chr06	10329800	AA	CC	CC	INTERGENIC			
SNP_40120_A_10332713	NC_021165.1	Ca_Kabuli_Chr06	10332713	CC	TT	TT	INTERGENIC			
SNP_40121_A_10332832	NC_021165.1	Ca_Kabuli_Chr06	10332832	TT	GG	GG	INTERGENIC			
SNP_40122_A_10333828	NC_021165.1	Ca_Kabuli_Chr06	10333828	AA	GG	GG	INTERGENIC			
SNP_40123_A_10361287	NC_021165.1	Ca_Kabuli_Chr06	10361287	GG	AA	AA	INTERGENIC			
SNP_40124_A_10361289	NC_021165.1	Ca_Kabuli_Chr06	10361289	CC	GG	GG	INTERGENIC			
SNP_40125_A_10361292	NC_021165.1	Ca_Kabuli_Chr06	10361292	CC	TT	TT	INTERGENIC			
SNP_40126_A_10362380	NC_021165.1	Ca_Kabuli_Chr06	10362380	CC	TT	TT	INTERGENIC			
SNP_40127_A_10364014	NC_021165.1	Ca_Kabuli_Chr06	10364014	GG	AA	AA	URR	101514933	Unknown function	
SNP_40128_A_10364040	NC_021165.1	Ca_Kabuli_Chr06	10364040	GG	TT	TT	URR	101514933	Unknown function	
SNP_40129_A_10364041	NC_021165.1	Ca_Kabuli_Chr06	10364041	TT	GG	GG	URR	101514933	Unknown function	
SNP_40130_A_10364290	NC_021165.1	Ca_Kabuli_Chr06	10364290	CC	AA	AA	URR	101514933	Unknown function	
SNP_40131_A_10368149	NC_021165.1	Ca_Kabuli_Chr06	10368149	GG	AA	AA	DRR	101515260	Unknown function	
SNP_40132_A_10368283	NC_021165.1	Ca_Kabuli_Chr06	10368283	AA	GG	GG	INTERGENIC			
SNP_40133_A_10371673	NC_021165.1	Ca_Kabuli_Chr06	10371673	CC	TT	TT	INTERGENIC			
SNP_40134_A_10372253	NC_021165.1	Ca_Kabuli_Chr06	10372253	AA	GG	GG	DRR	101513184	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like	
SNP_40135_A_10377489	NC_021165.1	Ca_Kabuli_Chr06	10377489	AA	GG	GG	URR	101513184	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40138_A_10381531	NC_021165.1	Ca_Kabuli_Chr06	10381531	CC	TT	TT	DRR	101513509	UBX domain-containing protein 1
SNP_40139_A_10381626	NC_021165.1	Ca_Kabuli_Chr06	10381626	AA	GG	GG	DRR	101513509	UBX domain-containing protein 1
SNP_40140_A_10381983	NC_021165.1	Ca_Kabuli_Chr06	10381983	AA	GG	GG	DRR	101513509	UBX domain-containing protein 1
SNP_40141_A_10389151	NC_021165.1	Ca_Kabuli_Chr06	10389151	CC	TT	TT	URR	101513509	UBX domain-containing protein 1
SNP_40142_A_10392836	NC_021165.1	Ca_Kabuli_Chr06	10392836	CC	TT	TT	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40143_A_10393315	NC_021165.1	Ca_Kabuli_Chr06	10393315	TT	AA	AA	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40144_A_10393571	NC_021165.1	Ca_Kabuli_Chr06	10393571	CC	TT	TT	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40145_A_10393638	NC_021165.1	Ca_Kabuli_Chr06	10393638	CC	TT	TT	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40146_A_10395035	NC_021165.1	Ca_Kabuli_Chr06	10395035	GG	AA	AA	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40147_A_10395123	NC_021165.1	Ca_Kabuli_Chr06	10395123	GG	AA	AA	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40148_A_10395329	NC_021165.1	Ca_Kabuli_Chr06	10395329	AA	GG	GG	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40150_A_10396324	NC_021165.1	Ca_Kabuli_Chr06	10396324	CC	AA	AA	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40151_A_10396453	NC_021165.1	Ca_Kabuli_Chr06	10396453	CC	TT	TT	INTRON	101513817	UV radiation resistance-associated gene protein
SNP_40152_A_10398929	NC_021165.1	Ca_Kabuli_Chr06	10398929	TT	GG	GG	URR	101513817	UV radiation resistance-associated gene protein
SNP_40153_A_10406539	NC_021165.1	Ca_Kabuli_Chr06	10406539	TT	CC	CC	URR	101515582	Unknown function
SNP_40155_A_10414384	NC_021165.1	Ca_Kabuli_Chr06	10414384	AA	GG	GG	URR	101488334	histone-lysine N-methyltransferase setd3-like
SNP_40156_A_10417720	NC_021165.1	Ca_Kabuli_Chr06	10417720	GG	AA	AA	DRR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40158_A_10417958	NC_021165.1	Ca_Kabuli_Chr06	10417958	CC	TT	TT	DRR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40159_A_10419159	NC_021165.1	Ca_Kabuli_Chr06	10419159	GG	CC	CC	URR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40160_A_10419862	NC_021165.1	Ca_Kabuli_Chr06	10419862	TT	AA	AA	URR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40161_A_10420727	NC_021165.1	Ca_Kabuli_Chr06	10420727	TT	GG	GG	URR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40162_A_10420818	NC_021165.1	Ca_Kabuli_Chr06	10420818	TT	CC	CC	URR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like

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SNP_40163_A_10420820	NC_021165.1	Ca_Kabuli_Chr06	10420820	TT	AA	AA	URR	101488658	PLASMODESMATA CALLOSE-BINDING PROTEIN 2-like
SNP_40164_A_10423441	NC_021165.1	Ca_Kabuli_Chr06	10423441	GG	TT	TT	INTERGENIC		
SNP_40165_A_10425673	NC_021165.1	Ca_Kabuli_Chr06	10425673	CC	TT	TT	DRR	101514486	TBC1 domain family member 13-like
SNP_40166_A_10425918	NC_021165.1	Ca_Kabuli_Chr06	10425918	CC	AA	AA	DRR	101514486	TBC1 domain family member 13-like
SNP_40167_A_10429230	NC_021165.1	Ca_Kabuli_Chr06	10429230	GG	AA	AA	INTRON	101514486	TBC1 domain family member 13-like
SNP_40168_A_10429648	NC_021165.1	Ca_Kabuli_Chr06	10429648	AA	TT	TT	INTRON	101514486	TBC1 domain family member 13-like
SNP_40169_A_10430754	NC_021165.1	Ca_Kabuli_Chr06	10430754	AA	GG	GG	NON_SYNONYMOUS_CODING	101514486	TBC1 domain family member 13-like
SNP_40170_A_10431523	NC_021165.1	Ca_Kabuli_Chr06	10431523	GG	AA	AA	URR	101514486	TBC1 domain family member 13-like
SNP_40171_A_10431527	NC_021165.1	Ca_Kabuli_Chr06	10431527	TT	AA	AA	URR	101514486	TBC1 domain family member 13-like
SNP_40172_A_10432498	NC_021165.1	Ca_Kabuli_Chr06	10432498	GG	AA	AA	DRR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40173_A_10432530	NC_021165.1	Ca_Kabuli_Chr06	10432530	GG	AA	AA	DRR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40174_A_10432699	NC_021165.1	Ca_Kabuli_Chr06	10432699	GG	CC	CC	DRR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40175_A_10437706	NC_021165.1	Ca_Kabuli_Chr06	10437706	AA	TT	TT	INTRON	101514809	actin-related protein 2/3 complex subunit 4
SNP_40177_A_10438893	NC_021165.1	Ca_Kabuli_Chr06	10438893	AA	TT	TT	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40178_A_10438896	NC_021165.1	Ca_Kabuli_Chr06	10438896	CC	GG	GG	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40179_A_10439327	NC_021165.1	Ca_Kabuli_Chr06	10439327	TT	GG	GG	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40180_A_10439336	NC_021165.1	Ca_Kabuli_Chr06	10439336	AA	GG	GG	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40181_A_10439535	NC_021165.1	Ca_Kabuli_Chr06	10439535	GG	AA	AA	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40182_A_10439542	NC_021165.1	Ca_Kabuli_Chr06	10439542	CC	AA	AA	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40183_A_10439545	NC_021165.1	Ca_Kabuli_Chr06	10439545	AA	GG	GG	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40184_A_10439565	NC_021165.1	Ca_Kabuli_Chr06	10439565	GG	CC	CC	URR	101514809	actin-related protein 2/3 complex subunit 4
SNP_40185_A_10439570	NC_021165.1	Ca_Kabuli_Chr06	10439570	GG	AA	AA	URR	101514809	actin-related protein 2/3 complex subunit 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40186_A_10442854	NC_021165.1	Ca_Kabuli_Chr06	10442854	AA	CC	CC	INTERGENIC		
SNP_40187_A_10442924	NC_021165.1	Ca_Kabuli_Chr06	10442924	CC	TT	TT	INTERGENIC		
SNP_40188_A_10444068	NC_021165.1	Ca_Kabuli_Chr06	10444068	TT	AA	AA	NON_SYNONYMOUS_CODING	101515132	uncharacterized LOC101515132
SNP_40189_A_10444657	NC_021165.1	Ca_Kabuli_Chr06	10444657	TT	CC	CC	INTRON	101515132	uncharacterized LOC101515132
SNP_40190_A_10444705	NC_021165.1	Ca_Kabuli_Chr06	10444705	GG	AA	AA	INTRON	101515132	uncharacterized LOC101515132
SNP_40191_A_10447263	NC_021165.1	Ca_Kabuli_Chr06	10447263	TT	CC	CC	INTRON	101515132	uncharacterized LOC101515132
SNP_40192_A_10452192	NC_021165.1	Ca_Kabuli_Chr06	10452192	TT	CC	CC	SYNONYMOUS_CODING	101515132	uncharacterized LOC101515132
SNP_40193_A_10455522	NC_021165.1	Ca_Kabuli_Chr06	10455522	CC	AA	AA	INTRON	101515132	uncharacterized LOC101515132
SNP_40195_A_10458072	NC_021165.1	Ca_Kabuli_Chr06	10458072	AA	TT	TT	INTRON	101515132	uncharacterized LOC101515132
SNP_40196_A_10458101	NC_021165.1	Ca_Kabuli_Chr06	10458101	CC	AA	AA	INTRON	101515132	uncharacterized LOC101515132
SNP_40197_A_10458404	NC_021165.1	Ca_Kabuli_Chr06	10458404	TT	AA	AA	INTRON	101515132	uncharacterized LOC101515132
SNP_40198_A_10458408	NC_021165.1	Ca_Kabuli_Chr06	10458408	TT	AA	AA	INTRON	101515132	uncharacterized LOC101515132
SNP_40200_A_10458641	NC_021165.1	Ca_Kabuli_Chr06	10458641	AA	TT	TT	INTRON	101515132	uncharacterized LOC101515132
SNP_40201_A_10469045	NC_021165.1	Ca_Kabuli_Chr06	10469045	CC	TT	TT	URR	101488998	cation/H(+) antiporter 4-like
SNP_40202_A_10470421	NC_021165.1	Ca_Kabuli_Chr06	10470421	TT	CC	CC	INTERGENIC		
SNP_40203_A_10470624	NC_021165.1	Ca_Kabuli_Chr06	10470624	AA	CC	CC	INTERGENIC		
SNP_40204_A_10472694	NC_021165.1	Ca_Kabuli_Chr06	10472694	TT	CC	CC	URR	101515449	geranylgeranyl transferase type-2 subunit beta-like
SNP_40206_A_10475831	NC_021165.1	Ca_Kabuli_Chr06	10475831	GG	TT	TT	DRR	101515783	methyltransferase-like protein 13
SNP_40207_A_10476033	NC_021165.1	Ca_Kabuli_Chr06	10476033	AA	CC	CC	DRR	101515783	methyltransferase-like protein 13
SNP_40208_A_10476039	NC_021165.1	Ca_Kabuli_Chr06	10476039	AA	GG	GG	DRR	101515783	methyltransferase-like protein 13
SNP_40209_A_10476070	NC_021165.1	Ca_Kabuli_Chr06	10476070	GG	CC	CC	DRR	101515783	methyltransferase-like protein 13
SNP_40210_A_10476073	NC_021165.1	Ca_Kabuli_Chr06	10476073	TT	CC	CC	DRR	101515783	methyltransferase-like protein 13

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40211_A_10476110	NC_021165.1	Ca_Kabuli_Chr06	10476110	CC	TT	TT	DRR	101515783	methyltransferase-like protein 13
SNP_40212_A_10476122	NC_021165.1	Ca_Kabuli_Chr06	10476122	AA	GG	GG	DRR	101515783	methyltransferase-like protein 13
SNP_40214_A_10478046	NC_021165.1	Ca_Kabuli_Chr06	10478046	GG	CC	CC	INTRON	101515783	methyltransferase-like protein 13
SNP_40215_A_10478052	NC_021165.1	Ca_Kabuli_Chr06	10478052	TT	GG	GG	INTRON	101515783	methyltransferase-like protein 13
SNP_40216_A_10481192	NC_021165.1	Ca_Kabuli_Chr06	10481192	CC	GG	GG	INTRON	101515783	methyltransferase-like protein 13
SNP_40218_A_10484446	NC_021165.1	Ca_Kabuli_Chr06	10484446	TT	GG	GG	INTERGENIC		
SNP_40220_A_10486068	NC_021165.1	Ca_Kabuli_Chr06	10486068	CC	TT	TT	DRR	101488777	beta-galactosidase 9
SNP_40221_A_10487809	NC_021165.1	Ca_Kabuli_Chr06	10487809	GG	TT	TT	URR	101515783	methyltransferase-like protein 13
SNP_40222_A_10488551	NC_021165.1	Ca_Kabuli_Chr06	10488551	CC	AA	AA	INTERGENIC		
SNP_40223_A_10488758	NC_021165.1	Ca_Kabuli_Chr06	10488758	AA	GG	GG	INTERGENIC		
SNP_40224_A_10488761	NC_021165.1	Ca_Kabuli_Chr06	10488761	AA	GG	GG	INTERGENIC		
SNP_40225_A_10490347	NC_021165.1	Ca_Kabuli_Chr06	10490347	GG	CC	CC	INTERGENIC		
SNP_40226_A_10490356	NC_021165.1	Ca_Kabuli_Chr06	10490356	GG	AA	AA	INTERGENIC		
SNP_40227_A_10490374	NC_021165.1	Ca_Kabuli_Chr06	10490374	AA	GG	GG	INTERGENIC		
SNP_40228_A_10490384	NC_021165.1	Ca_Kabuli_Chr06	10490384	AA	GG	GG	INTERGENIC		
SNP_40229_A_10491142	NC_021165.1	Ca_Kabuli_Chr06	10491142	AA	GG	GG	INTRON	101488777	beta-galactosidase 9
SNP_40230_A_10491261	NC_021165.1	Ca_Kabuli_Chr06	10491261	TT	AA	AA	SYNONYMOUS_CODING	101488777	beta-galactosidase 9
SNP_40231_A_10491272	NC_021165.1	Ca_Kabuli_Chr06	10491272	CC	TT	TT	NON_SYNONYMOUS_CODING	101488777	beta-galactosidase 9
SNP_40232_A_10491547	NC_021165.1	Ca_Kabuli_Chr06	10491547	CC	TT	TT	INTRON	101488777	beta-galactosidase 9
SNP_40234_A_10498821	NC_021165.1	Ca_Kabuli_Chr06	10498821	AA	GG	GG	INTERGENIC		
SNP_40235_A_10499179	NC_021165.1	Ca_Kabuli_Chr06	10499179	GG	CC	CC	INTERGENIC		
SNP_40236_A_10499456	NC_021165.1	Ca_Kabuli_Chr06	10499456	AA	CC	CC	URR	101488777	beta-galactosidase 9

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40237_A_10499973	NC_021165.1	Ca_Kabuli_Chr06	10499973	GG	AA	AA	DRR	101489106	chalcone synthase 1
SNP_40238_A_10502138	NC_021165.1	Ca_Kabuli_Chr06	10502138	GG	TT	TT	INTERGENIC		
SNP_40239_A_10502355	NC_021165.1	Ca_Kabuli_Chr06	10502355	AA	GG	GG	URR	101489106	chalcone synthase 1
SNP_40240_A_10502595	NC_021165.1	Ca_Kabuli_Chr06	10502595	TT	AA	AA	URR	101489106	chalcone synthase 1
SNP_40241_A_10503426	NC_021165.1	Ca_Kabuli_Chr06	10503426	AA	GG	GG	URR	101489106	chalcone synthase 1
SNP_40242_A_10504141	NC_021165.1	Ca_Kabuli_Chr06	10504141	AA	CC	CC	DRR	101489441	uncharacterized LOC101489441
SNP_40243_A_10504500	NC_021165.1	Ca_Kabuli_Chr06	10504500	CC	TT	TT	DRR	101489441	uncharacterized LOC101489441
SNP_40244_A_10507764	NC_021165.1	Ca_Kabuli_Chr06	10507764	TT	AA	AA	DRR	101489764	probable magnesium transporter NIPA1
SNP_40245_A_10507889	NC_021165.1	Ca_Kabuli_Chr06	10507889	TT	CC	CC	DRR	101489764	probable magnesium transporter NIPA1
SNP_40246_A_10508292	NC_021165.1	Ca_Kabuli_Chr06	10508292	CC	TT	TT	DRR	101489764	probable magnesium transporter NIPA1
SNP_40247_A_10508295	NC_021165.1	Ca_Kabuli_Chr06	10508295	GG	AA	AA	DRR	101489764	probable magnesium transporter NIPA1
SNP_40248_A_10511426	NC_021165.1	Ca_Kabuli_Chr06	10511426	TT	GG	GG	INTERGENIC		
SNP_40249_A_10511539	NC_021165.1	Ca_Kabuli_Chr06	10511539	CC	TT	TT	INTERGENIC		
SNP_40250_A_10512021	NC_021165.1	Ca_Kabuli_Chr06	10512021	AA	GG	GG	INTERGENIC		
SNP_40251_A_10514105	NC_021165.1	Ca_Kabuli_Chr06	10514105	CC	TT	TT	URR	101489764	probable magnesium transporter NIPA1
SNP_40253_A_10514610	NC_021165.1	Ca_Kabuli_Chr06	10514610	GG	AA	AA	URR	101489764	probable magnesium transporter NIPA1
SNP_40254_A_10516623	NC_021165.1	Ca_Kabuli_Chr06	10516623	AA	TT	TT	INTERGENIC		
SNP_40255_A_10553555	NC_021165.1	Ca_Kabuli_Chr06	10553555	CC	AA	AA	INTERGENIC		
SNP_40256_A_10553556	NC_021165.1	Ca_Kabuli_Chr06	10553556	AA	CC	CC	INTERGENIC		
SNP_40257_A_10555478	NC_021165.1	Ca_Kabuli_Chr06	10555478	GG	AA	AA	INTERGENIC		
SNP_40258_A_10556311	NC_021165.1	Ca_Kabuli_Chr06	10556311	AA	CC	CC	INTERGENIC		
SNP_40259_A_10556557	NC_021165.1	Ca_Kabuli_Chr06	10556557	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40261_A_10559666	NC_021165.1	Ca_Kabuli_Chr06	10559666	CC	TT	TT	INTERGENIC		
SNP_40262_A_10564021	NC_021165.1	Ca_Kabuli_Chr06	10564021	CC	TT	TT	INTERGENIC		
SNP_40264_A_10564070	NC_021165.1	Ca_Kabuli_Chr06	10564070	AA	GG	GG	INTERGENIC		
SNP_40266_A_10564356	NC_021165.1	Ca_Kabuli_Chr06	10564356	TT	CC	CC	INTERGENIC		
SNP_40268_A_10564658	NC_021165.1	Ca_Kabuli_Chr06	10564658	TT	CC	CC	INTERGENIC		
SNP_40269_A_10564748	NC_021165.1	Ca_Kabuli_Chr06	10564748	CC	GG	GG	INTERGENIC		
SNP_40270_A_10565828	NC_021165.1	Ca_Kabuli_Chr06	10565828	CC	AA	AA	INTERGENIC		
SNP_40271_A_10565829	NC_021165.1	Ca_Kabuli_Chr06	10565829	CC	TT	TT	INTERGENIC		
SNP_40272_A_10565859	NC_021165.1	Ca_Kabuli_Chr06	10565859	CC	TT	TT	INTERGENIC		
SNP_40274_A_10566241	NC_021165.1	Ca_Kabuli_Chr06	10566241	AA	GG	GG	INTERGENIC		
SNP_40275_A_10566906	NC_021165.1	Ca_Kabuli_Chr06	10566906	CC	AA	AA	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40276_A_10566919	NC_021165.1	Ca_Kabuli_Chr06	10566919	TT	GG	GG	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40277_A_10566962	NC_021165.1	Ca_Kabuli_Chr06	10566962	TT	GG	GG	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40278_A_10566965	NC_021165.1	Ca_Kabuli_Chr06	10566965	GG	CC	CC	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40279_A_10567019	NC_021165.1	Ca_Kabuli_Chr06	10567019	TT	CC	CC	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40280_A_10567086	NC_021165.1	Ca_Kabuli_Chr06	10567086	AA	TT	TT	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40281_A_10567518	NC_021165.1	Ca_Kabuli_Chr06	10567518	GG	AA	AA	DRR	101492108	uncharacterized protein PF11_0207-like
SNP_40282_A_10570740	NC_021165.1	Ca_Kabuli_Chr06	10570740	GG	AA	AA	INTRON	101492108	uncharacterized protein PF11_0207-like
SNP_40283_A_10571701	NC_021165.1	Ca_Kabuli_Chr06	10571701	TT	CC	CC	INTRON	101492108	uncharacterized protein PF11_0207-like
SNP_40284_A_10572388	NC_021165.1	Ca_Kabuli_Chr06	10572388	AA	TT	TT	INTRON	101492108	uncharacterized protein PF11_0207-like
SNP_40285_A_10576483	NC_021165.1	Ca_Kabuli_Chr06	10576483	AA	GG	GG	URR	101492108	uncharacterized protein PF11_0207-like
SNP_40287_A_10577262	NC_021165.1	Ca_Kabuli_Chr06	10577262	GG	AA	AA	URR	101492108	uncharacterized protein PF11_0207-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40288_A_10577328	NC_021165.1	Ca_Kabuli_Chr06	10577328	GG	AA	AA	URR	101492108	uncharacterized protein PF11_0207-like
SNP_40289_A_10577365	NC_021165.1	Ca_Kabuli_Chr06	10577365	TT	CC	CC	URR	101492108	uncharacterized protein PF11_0207-like
SNP_40290_A_10577369	NC_021165.1	Ca_Kabuli_Chr06	10577369	GG	AA	AA	URR	101492108	uncharacterized protein PF11_0207-like
SNP_40291_A_10578307	NC_021165.1	Ca_Kabuli_Chr06	10578307	CC	GG	GG	INTERGENIC		
SNP_40292_A_10578325	NC_021165.1	Ca_Kabuli_Chr06	10578325	GG	AA	AA	INTERGENIC		
SNP_40293_A_10578811	NC_021165.1	Ca_Kabuli_Chr06	10578811	GG	AA	AA	INTERGENIC		
SNP_40294_A_10578822	NC_021165.1	Ca_Kabuli_Chr06	10578822	AA	GG	GG	INTERGENIC		
SNP_40295_A_10579593	NC_021165.1	Ca_Kabuli_Chr06	10579593	AA	GG	GG	INTERGENIC		
SNP_40296_A_10584035	NC_021165.1	Ca_Kabuli_Chr06	10584035	CC	TT	TT	INTRON	101492900	60S ribosomal protein L10a-like
SNP_40297_A_10586438	NC_021165.1	Ca_Kabuli_Chr06	10586438	CC	AA	AA	DRR	101493439	uncharacterized LOC101493439
SNP_40299_A_10587483	NC_021165.1	Ca_Kabuli_Chr06	10587483	TT	CC	CC	INTERGENIC		
SNP_40300_A_10592787	NC_021165.1	Ca_Kabuli_Chr06	10592787	TT	AA	AA	URR	101493761	serine hydroxymethyltransferase 4-like
SNP_40301_A_10594887	NC_021165.1	Ca_Kabuli_Chr06	10594887	TT	CC	CC	INTERGENIC		
SNP_40302_A_10594906	NC_021165.1	Ca_Kabuli_Chr06	10594906	GG	AA	AA	INTERGENIC		
SNP_40303_A_10596266	NC_021165.1	Ca_Kabuli_Chr06	10596266	TT	CC	CC	INTERGENIC		
SNP_40304_A_10596267	NC_021165.1	Ca_Kabuli_Chr06	10596267	CC	TT	TT	INTERGENIC		
SNP_40305_A_10596487	NC_021165.1	Ca_Kabuli_Chr06	10596487	AA	GG	GG	INTERGENIC		
SNP_40306_A_10601552	NC_021165.1	Ca_Kabuli_Chr06	10601552	CC	TT	TT	INTERGENIC		
SNP_40307_A_10601578	NC_021165.1	Ca_Kabuli_Chr06	10601578	AA	GG	GG	INTERGENIC		
SNP_40308_A_10602694	NC_021165.1	Ca_Kabuli_Chr06	10602694	AA	GG	GG	INTERGENIC		
SNP_40310_A_10606205	NC_021165.1	Ca_Kabuli_Chr06	10606205	GG	AA	AA	URR	101494081	adenosylhomocysteinase-like
SNP_40312_A_10608322	NC_021165.1	Ca_Kabuli_Chr06	10608322	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40313_A_10608756	NC_021165.1	Ca_Kabuli_Chr06	10608756	TT	AA	AA	INTERGENIC			
SNP_40314_A_10610779	NC_021165.1	Ca_Kabuli_Chr06	10610779	AA	GG	GG	INTERGENIC			
SNP_40316_A_10611470	NC_021165.1	Ca_Kabuli_Chr06	10611470	AA	GG	GG	DRR	101494390	heat stress transcription factor A-5	
SNP_40317_A_10611506	NC_021165.1	Ca_Kabuli_Chr06	10611506	GG	AA	AA	DRR	101494390	heat stress transcription factor A-5	
SNP_40318_A_10611701	NC_021165.1	Ca_Kabuli_Chr06	10611701	AA	CC	CC	DRR	101494390	heat stress transcription factor A-5	
SNP_40319_A_10617177	NC_021165.1	Ca_Kabuli_Chr06	10617177	AA	GG	GG	URR	101494390	heat stress transcription factor A-5	
SNP_40320_A_10617332	NC_021165.1	Ca_Kabuli_Chr06	10617332	TT	GG	GG	URR	101494390	heat stress transcription factor A-5	
SNP_40321_A_10618619	NC_021165.1	Ca_Kabuli_Chr06	10618619	GG	AA	AA	INTERGENIC			
SNP_40322_A_10619143	NC_021165.1	Ca_Kabuli_Chr06	10619143	TT	AA	AA	INTERGENIC			
SNP_40323_A_10619443	NC_021165.1	Ca_Kabuli_Chr06	10619443	TT	AA	AA	INTERGENIC			
SNP_40324_A_10619567	NC_021165.1	Ca_Kabuli_Chr06	10619567	AA	TT	TT	INTERGENIC			
SNP_40325_A_10622811	NC_021165.1	Ca_Kabuli_Chr06	10622811	TT	AA	AA	INTERGENIC			
SNP_40326_A_10622815	NC_021165.1	Ca_Kabuli_Chr06	10622815	TT	CC	CC	INTERGENIC			
SNP_40327_A_10623939	NC_021165.1	Ca_Kabuli_Chr06	10623939	GG	AA	AA	INTERGENIC			
SNP_40328_A_10624144	NC_021165.1	Ca_Kabuli_Chr06	10624144	TT	AA	AA	DRR	101494702	protein BUD31 homolog 2	
SNP_40329_A_10624254	NC_021165.1	Ca_Kabuli_Chr06	10624254	TT	AA	AA	DRR	101494702	protein BUD31 homolog 2	
SNP_40330_A_10631666	NC_021165.1	Ca_Kabuli_Chr06	10631666	TT	CC	CC	DRR	101495026	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial	
SNP_40332_A_10649603	NC_021165.1	Ca_Kabuli_Chr06	10649603	GG	AA	AA	DRR	101496344	protein RALF-like 32	
SNP_40333_A_10649610	NC_021165.1	Ca_Kabuli_Chr06	10649610	GG	AA	AA	DRR	101496344	protein RALF-like 32	
SNP_40334_A_10649613	NC_021165.1	Ca_Kabuli_Chr06	10649613	CC	TT	TT	DRR	101496344	protein RALF-like 32	
SNP_40335_A_10649625	NC_021165.1	Ca_Kabuli_Chr06	10649625	GG	TT	TT	DRR	101496344	protein RALF-like 32	
SNP_40336_A_10649825	NC_021165.1	Ca_Kabuli_Chr06	10649825	CC	TT	TT	DRR	101496344	protein RALF-like 32	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40337_A_10649881	NC_021165.1	Ca_Kabuli_Chr06	10649881	CC	TT	TT	DRR	101496344	protein RALF-like 32
SNP_40338_A_10649883	NC_021165.1	Ca_Kabuli_Chr06	10649883	CC	GG	GG	DRR	101496344	protein RALF-like 32
SNP_40340_A_10649944	NC_021165.1	Ca_Kabuli_Chr06	10649944	GG	TT	TT	DRR	101496344	protein RALF-like 32
SNP_40341_A_10649961	NC_021165.1	Ca_Kabuli_Chr06	10649961	AA	GG	GG	DRR	101496344	protein RALF-like 32
SNP_40342_A_10652104	NC_021165.1	Ca_Kabuli_Chr06	10652104	AA	GG	GG	URR	101496344	protein RALF-like 32
SNP_40343_A_10652393	NC_021165.1	Ca_Kabuli_Chr06	10652393	GG	AA	AA	URR	101496344	protein RALF-like 32
SNP_40344_A_10653929	NC_021165.1	Ca_Kabuli_Chr06	10653929	TT	CC	CC	INTERGENIC		
SNP_40345_A_10656781	NC_021165.1	Ca_Kabuli_Chr06	10656781	AA	GG	GG	NON_SYNONYMOUS_CODING	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40347_A_10657543	NC_021165.1	Ca_Kabuli_Chr06	10657543	TT	CC	CC	INTRON	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40348_A_10657683	NC_021165.1	Ca_Kabuli_Chr06	10657683	GG	AA	AA	INTRON	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40349_A_10657975	NC_021165.1	Ca_Kabuli_Chr06	10657975	GG	TT	TT	INTRON	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40350_A_10660057	NC_021165.1	Ca_Kabuli_Chr06	10660057	AA	CC	CC	INTRON	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40352_A_10662537	NC_021165.1	Ca_Kabuli_Chr06	10662537	TT	CC	CC	URR	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40353_A_10663092	NC_021165.1	Ca_Kabuli_Chr06	10663092	AA	GG	GG	URR	101496670	probable acyl-activating enzyme 16, chloroplastic
SNP_40355_A_10664850	NC_021165.1	Ca_Kabuli_Chr06	10664850	TT	CC	CC	INTERGENIC		
SNP_40356_A_10665101	NC_021165.1	Ca_Kabuli_Chr06	10665101	GG	AA	AA	INTERGENIC		
SNP_40357_A_10665142	NC_021165.1	Ca_Kabuli_Chr06	10665142	TT	AA	AA	INTERGENIC		
SNP_40358_A_10665143	NC_021165.1	Ca_Kabuli_Chr06	10665143	AA	GG	GG	INTERGENIC		
SNP_40360_A_10665368	NC_021165.1	Ca_Kabuli_Chr06	10665368	AA	CC	CC	INTERGENIC		
SNP_40361_A_10666167	NC_021165.1	Ca_Kabuli_Chr06	10666167	TT	CC	CC	INTERGENIC		
SNP_40362_A_10666225	NC_021165.1	Ca_Kabuli_Chr06	10666225	TT	CC	CC	INTERGENIC		
SNP_40363_A_10674757	NC_021165.1	Ca_Kabuli_Chr06	10674757	AA	GG	GG	INTRON	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like

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SNP_40364_A_10675251	NC_021165.1	Ca_Kabuli_Chr06	10675251	TT	CC	CC	INTRON	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like
SNP_40366_A_10677230	NC_021165.1	Ca_Kabuli_Chr06	10677230	CC	AA	AA	INTERGENIC		
SNP_40367_A_10677501	NC_021165.1	Ca_Kabuli_Chr06	10677501	TT	CC	CC	INTERGENIC		
SNP_40368_A_10681376	NC_021165.1	Ca_Kabuli_Chr06	10681376	AA	TT	TT	DRR	101497314	subtilisin-like protease SBT3.3
SNP_40369_A_10681660	NC_021165.1	Ca_Kabuli_Chr06	10681660	TT	AA	AA	URR	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like
SNP_40370_A_10682355	NC_021165.1	Ca_Kabuli_Chr06	10682355	TT	CC	CC	URR	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like
SNP_40371_A_10682358	NC_021165.1	Ca_Kabuli_Chr06	10682358	CC	TT	TT	URR	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like
SNP_40372_A_10682378	NC_021165.1	Ca_Kabuli_Chr06	10682378	AA	GG	GG	URR	101496985	bifunctional aspartokinase/homoserine dehydrogenase 1, chloroplastic-like
SNP_40373_A_10684283	NC_021165.1	Ca_Kabuli_Chr06	10684283	AA	GG	GG	INTERGENIC		
SNP_40374_A_10685186	NC_021165.1	Ca_Kabuli_Chr06	10685186	CC	TT	TT	INTERGENIC		
SNP_40375_A_10685694	NC_021165.1	Ca_Kabuli_Chr06	10685694	CC	TT	TT	INTRON	101497314	subtilisin-like protease SBT3.3
SNP_40377_A_10686673	NC_021165.1	Ca_Kabuli_Chr06	10686673	CC	AA	AA	NON_SYNONYMOUS_CODING	id132795	Unknown function
SNP_40378_A_10687336	NC_021165.1	Ca_Kabuli_Chr06	10687336	AA	GG	GG	URR	101497314	subtilisin-like protease SBT3.3
SNP_40379_A_10689737	NC_021165.1	Ca_Kabuli_Chr06	10689737	GG	AA	AA	INTERGENIC		
SNP_40380_A_10689738	NC_021165.1	Ca_Kabuli_Chr06	10689738	GG	CC	CC	INTERGENIC		
SNP_40381_A_10690331	NC_021165.1	Ca_Kabuli_Chr06	10690331	GG	AA	AA	INTERGENIC		
SNP_40382_A_10693975	NC_021165.1	Ca_Kabuli_Chr06	10693975	GG	AA	AA	INTERGENIC		
SNP_40383_A_10694197	NC_021165.1	Ca_Kabuli_Chr06	10694197	AA	TT	TT	INTERGENIC		
SNP_40384_A_10695710	NC_021165.1	Ca_Kabuli_Chr06	10695710	TT	AA	AA	DRR	101497972	probable receptor protein kinase TMK1
SNP_40385_A_10700535	NC_021165.1	Ca_Kabuli_Chr06	10700535	CC	AA	AA	URR	101497972	probable receptor protein kinase TMK1
SNP_40386_A_10705384	NC_021165.1	Ca_Kabuli_Chr06	10705384	AA	GG	GG	INTERGENIC		
SNP_40387_A_10705588	NC_021165.1	Ca_Kabuli_Chr06	10705588	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40388_A_10748859	NC_021165.1	Ca_Kabuli_Chr06	10748859	AA	GG	GG	SYNONYMOUS_CODING	101499602	uncharacterized LOC101499602
SNP_40389_A_10751176	NC_021165.1	Ca_Kabuli_Chr06	10751176	TT	AA	AA	URR	101499602	uncharacterized LOC101499602
SNP_40390_A_10751209	NC_021165.1	Ca_Kabuli_Chr06	10751209	AA	TT	TT	URR	101499602	uncharacterized LOC101499602
SNP_40391_A_10753535	NC_021165.1	Ca_Kabuli_Chr06	10753535	AA	GG	GG	INTERGENIC		
SNP_40392_A_10753962	NC_021165.1	Ca_Kabuli_Chr06	10753962	AA	GG	GG	INTERGENIC		
SNP_40393_A_10780368	NC_021165.1	Ca_Kabuli_Chr06	10780368	GG	AA	AA	INTRON	101501198	kinesin-like protein KIN12A
SNP_40394_A_10822229	NC_021165.1	Ca_Kabuli_Chr06	10822229	AA	CC	CC	INTERGENIC		
SNP_40395_A_10822407	NC_021165.1	Ca_Kabuli_Chr06	10822407	TT	AA	AA	INTERGENIC		
SNP_40396_A_10822423	NC_021165.1	Ca_Kabuli_Chr06	10822423	AA	CC	CC	INTERGENIC		
SNP_40397_A_10825376	NC_021165.1	Ca_Kabuli_Chr06	10825376	CC	TT	TT	INTERGENIC		
SNP_40398_A_10916225	NC_021165.1	Ca_Kabuli_Chr06	10916225	AA	TT	TT	INTERGENIC		
SNP_40399_A_10930098	NC_021165.1	Ca_Kabuli_Chr06	10930098	GG	CC	CC	INTERGENIC		
SNP_40400_A_10930263	NC_021165.1	Ca_Kabuli_Chr06	10930263	TT	CC	CC	INTERGENIC		
SNP_40401_A_10948623	NC_021165.1	Ca_Kabuli_Chr06	10948623	TT	AA	AA	INTERGENIC		
SNP_40402_A_10948637	NC_021165.1	Ca_Kabuli_Chr06	10948637	GG	TT	TT	INTERGENIC		
SNP_40403_A_10948679	NC_021165.1	Ca_Kabuli_Chr06	10948679	AA	GG	GG	INTERGENIC		
SNP_40404_A_10948700	NC_021165.1	Ca_Kabuli_Chr06	10948700	GG	CC	CC	INTERGENIC		
SNP_40405_A_10957017	NC_021165.1	Ca_Kabuli_Chr06	10957017	AA	GG	GG	INTERGENIC		
SNP_40406_A_10993479	NC_021165.1	Ca_Kabuli_Chr06	10993479	TT	CC	CC	URR	101491689	F-box protein At1g67340-like
SNP_40407_A_10998841	NC_021165.1	Ca_Kabuli_Chr06	10998841	TT	AA	AA	INTERGENIC		
SNP_40408_A_11031538	NC_021165.1	Ca_Kabuli_Chr06	11031538	TT	CC	CC	INTERGENIC		
SNP_40409_A_11063831	NC_021165.1	Ca_Kabuli_Chr06	11063831	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40410_A_11077036	NC_021165.1	Ca_Kabuli_Chr06	11077036	GG	TT	TT	URR	101494915	probable glycosyltransferase At5g20260
SNP_40411_A_11163190	NC_021165.1	Ca_Kabuli_Chr06	11163190	AA	CC	CC	INTRON	101499285	putative pre-mRNA-splicing factor ATP-dependent RNA helicase PRP1
SNP_40412_A_11174147	NC_021165.1	Ca_Kabuli_Chr06	11174147	AA	GG	GG	INTRON	101499603	lipoxigenase 6, chloroplastic
SNP_40413_A_11233607	NC_021165.1	Ca_Kabuli_Chr06	11233607	TT	AA	AA	INTERGENIC		
SNP_40414_A_11240699	NC_021165.1	Ca_Kabuli_Chr06	11240699	CC	GG	GG	INTERGENIC		
SNP_40415_A_11308748	NC_021165.1	Ca_Kabuli_Chr06	11308748	CC	TT	TT	URR	101507313	vinorine synthase-like
SNP_40416_A_11308881	NC_021165.1	Ca_Kabuli_Chr06	11308881	GG	AA	AA	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40417_A_11308893	NC_021165.1	Ca_Kabuli_Chr06	11308893	TT	AA	AA	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40418_A_11308949	NC_021165.1	Ca_Kabuli_Chr06	11308949	AA	TT	TT	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40419_A_11309346	NC_021165.1	Ca_Kabuli_Chr06	11309346	AA	TT	TT	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40420_A_11309486	NC_021165.1	Ca_Kabuli_Chr06	11309486	GG	AA	AA	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40421_A_11309834	NC_021165.1	Ca_Kabuli_Chr06	11309834	GG	TT	TT	DRR	101507620	BAHD acyltransferase At5g47980-like
SNP_40422_A_11310559	NC_021165.1	Ca_Kabuli_Chr06	11310559	AA	GG	GG	DRR	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40423_A_11310610	NC_021165.1	Ca_Kabuli_Chr06	11310610	TT	GG	GG	DRR	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40424_A_11310678	NC_021165.1	Ca_Kabuli_Chr06	11310678	TT	CC	CC	DRR	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40425_A_11310736	NC_021165.1	Ca_Kabuli_Chr06	11310736	AA	GG	GG	DRR	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40426_A_11310810	NC_021165.1	Ca_Kabuli_Chr06	11310810	CC	TT	TT	DRR	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40427_A_11311012	NC_021165.1	Ca_Kabuli_Chr06	11311012	CC	TT	TT	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40428_A_11311101	NC_021165.1	Ca_Kabuli_Chr06	11311101	TT	GG	GG	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40429_A_11311261	NC_021165.1	Ca_Kabuli_Chr06	11311261	CC	TT	TT	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40430_A_11311281	NC_021165.1	Ca_Kabuli_Chr06	11311281	TT	AA	AA	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40431_A_11311282	NC_021165.1	Ca_Kabuli_Chr06	11311282	CC	AA	AA	URR	101507620	BAHD acyltransferase At5g47980-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40432_A_11311283	NC_021165.1	Ca_Kabuli_Chr06	11311283	AA	TT	TT	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40433_A_11311304	NC_021165.1	Ca_Kabuli_Chr06	11311304	TT	CC	CC	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40434_A_11311425	NC_021165.1	Ca_Kabuli_Chr06	11311425	TT	AA	AA	URR	101507620	BAHD acyltransferase At5g47980-like
SNP_40435_A_11314190	NC_021165.1	Ca_Kabuli_Chr06	11314190	TT	CC	CC	NON_SYNONYMOUS_CODING	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40436_A_11314198	NC_021165.1	Ca_Kabuli_Chr06	11314198	AA	TT	TT	NON_SYNONYMOUS_CODING	101505146	pentatricopeptide repeat-containing protein mitochondrial-like At3g22470,
SNP_40440_A_11457238	NC_021165.1	Ca_Kabuli_Chr06	11457238	TT	CC	CC	INTERGENIC		
SNP_40441_A_11457521	NC_021165.1	Ca_Kabuli_Chr06	11457521	TT	CC	CC	INTERGENIC		
SNP_40442_A_11457525	NC_021165.1	Ca_Kabuli_Chr06	11457525	GG	AA	AA	INTERGENIC		
SNP_40444_A_11513694	NC_021165.1	Ca_Kabuli_Chr06	11513694	GG	CC	CC	INTERGENIC		
SNP_40445_A_11545886	NC_021165.1	Ca_Kabuli_Chr06	11545886	TT	CC	CC	INTERGENIC		
SNP_40446_A_11545948	NC_021165.1	Ca_Kabuli_Chr06	11545948	GG	AA	AA	INTERGENIC		
SNP_40447_A_11546167	NC_021165.1	Ca_Kabuli_Chr06	11546167	GG	CC	CC	INTERGENIC		
SNP_40448_A_11546178	NC_021165.1	Ca_Kabuli_Chr06	11546178	GG	AA	AA	INTERGENIC		
SNP_40449_A_11546338	NC_021165.1	Ca_Kabuli_Chr06	11546338	AA	CC	CC	INTERGENIC		
SNP_40450_A_11546401	NC_021165.1	Ca_Kabuli_Chr06	11546401	CC	TT	TT	INTERGENIC		
SNP_40452_A_11546553	NC_021165.1	Ca_Kabuli_Chr06	11546553	AA	GG	GG	INTERGENIC		
SNP_40453_A_11546598	NC_021165.1	Ca_Kabuli_Chr06	11546598	AA	TT	TT	INTERGENIC		
SNP_40454_A_11546645	NC_021165.1	Ca_Kabuli_Chr06	11546645	CC	GG	GG	INTERGENIC		
SNP_40455_A_11546696	NC_021165.1	Ca_Kabuli_Chr06	11546696	AA	TT	TT	INTERGENIC		
SNP_40456_A_11568243	NC_021165.1	Ca_Kabuli_Chr06	11568243	TT	CC	CC	INTERGENIC		
SNP_40457_A_11569090	NC_021165.1	Ca_Kabuli_Chr06	11569090	TT	AA	AA	INTERGENIC		
SNP_40459_A_11573613	NC_021165.1	Ca_Kabuli_Chr06	11573613	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40460_A_11591470	NC_021165.1	Ca_Kabuli_Chr06	11591470	GG	CC	CC	INTERGENIC			
SNP_40461_A_11591492	NC_021165.1	Ca_Kabuli_Chr06	11591492	CC	TT	TT	INTERGENIC			
SNP_40462_A_11591764	NC_021165.1	Ca_Kabuli_Chr06	11591764	TT	CC	CC	INTERGENIC			
SNP_40463_A_11592878	NC_021165.1	Ca_Kabuli_Chr06	11592878	CC	AA	AA	INTERGENIC			
SNP_40464_A_11592884	NC_021165.1	Ca_Kabuli_Chr06	11592884	AA	GG	GG	INTERGENIC			
SNP_40465_A_11592924	NC_021165.1	Ca_Kabuli_Chr06	11592924	GG	TT	TT	INTERGENIC			
SNP_40466_A_11593198	NC_021165.1	Ca_Kabuli_Chr06	11593198	GG	AA	AA	INTERGENIC			
SNP_40467_A_11593699	NC_021165.1	Ca_Kabuli_Chr06	11593699	CC	TT	TT	INTERGENIC			
SNP_40468_A_11593761	NC_021165.1	Ca_Kabuli_Chr06	11593761	GG	TT	TT	INTERGENIC			
SNP_40469_A_11596237	NC_021165.1	Ca_Kabuli_Chr06	11596237	AA	GG	GG	INTERGENIC			
SNP_40470_A_11597768	NC_021165.1	Ca_Kabuli_Chr06	11597768	CC	TT	TT	INTERGENIC			
SNP_40471_A_11597954	NC_021165.1	Ca_Kabuli_Chr06	11597954	CC	TT	TT	INTERGENIC			
SNP_40472_A_11598011	NC_021165.1	Ca_Kabuli_Chr06	11598011	AA	GG	GG	INTERGENIC			
SNP_40473_A_11598069	NC_021165.1	Ca_Kabuli_Chr06	11598069	CC	AA	AA	INTERGENIC			
SNP_40474_A_11598419	NC_021165.1	Ca_Kabuli_Chr06	11598419	GG	AA	AA	INTERGENIC			
SNP_40475_A_11599084	NC_021165.1	Ca_Kabuli_Chr06	11599084	CC	TT	TT	INTERGENIC			
SNP_40476_A_11600318	NC_021165.1	Ca_Kabuli_Chr06	11600318	TT	CC	CC	INTERGENIC			
SNP_40477_A_11601385	NC_021165.1	Ca_Kabuli_Chr06	11601385	TT	AA	AA	INTERGENIC			
SNP_40478_A_11601771	NC_021165.1	Ca_Kabuli_Chr06	11601771	TT	AA	AA	INTERGENIC			
SNP_40479_A_11601782	NC_021165.1	Ca_Kabuli_Chr06	11601782	GG	AA	AA	INTERGENIC			
SNP_40480_A_11602194	NC_021165.1	Ca_Kabuli_Chr06	11602194	TT	CC	CC	INTERGENIC			
SNP_40481_A_11602198	NC_021165.1	Ca_Kabuli_Chr06	11602198	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40482_A_11602266	NC_021165.1	Ca_Kabuli_Chr06	11602266	AA	TT	TT	INTERGENIC		
SNP_40483_A_11602285	NC_021165.1	Ca_Kabuli_Chr06	11602285	GG	AA	AA	INTERGENIC		
SNP_40484_A_11602299	NC_021165.1	Ca_Kabuli_Chr06	11602299	AA	GG	GG	INTERGENIC		
SNP_40485_A_11602607	NC_021165.1	Ca_Kabuli_Chr06	11602607	TT	CC	CC	INTERGENIC		
SNP_40486_A_11602663	NC_021165.1	Ca_Kabuli_Chr06	11602663	CC	AA	AA	INTERGENIC		
SNP_40487_A_11602664	NC_021165.1	Ca_Kabuli_Chr06	11602664	TT	CC	CC	INTERGENIC		
SNP_40488_A_11603680	NC_021165.1	Ca_Kabuli_Chr06	11603680	AA	CC	CC	INTERGENIC		
SNP_40489_A_11606588	NC_021165.1	Ca_Kabuli_Chr06	11606588	AA	GG	GG	DRR	101488887	MATH domain and coiled-coil domain-containing protein At3g58410
SNP_40490_A_11606633	NC_021165.1	Ca_Kabuli_Chr06	11606633	TT	CC	CC	DRR	101488887	MATH domain and coiled-coil domain-containing protein At3g58410
SNP_40491_A_11610790	NC_021165.1	Ca_Kabuli_Chr06	11610790	TT	AA	AA	URR	101488887	MATH domain and coiled-coil domain-containing protein At3g58410
SNP_40492_A_11613715	NC_021165.1	Ca_Kabuli_Chr06	11613715	CC	AA	AA	INTERGENIC		
SNP_40494_A_11617590	NC_021165.1	Ca_Kabuli_Chr06	11617590	AA	TT	TT	INTERGENIC		
SNP_40496_A_11622141	NC_021165.1	Ca_Kabuli_Chr06	11622141	AA	GG	GG	INTERGENIC		
SNP_40497_A_11622257	NC_021165.1	Ca_Kabuli_Chr06	11622257	GG	AA	AA	INTERGENIC		
SNP_40498_A_11627524	NC_021165.1	Ca_Kabuli_Chr06	11627524	GG	AA	AA	INTERGENIC		
SNP_40499_A_11627541	NC_021165.1	Ca_Kabuli_Chr06	11627541	GG	AA	AA	INTERGENIC		
SNP_40501_A_11630676	NC_021165.1	Ca_Kabuli_Chr06	11630676	TT	CC	CC	DRR	101491895	universal stress protein A-like protein
SNP_40502_A_11631541	NC_021165.1	Ca_Kabuli_Chr06	11631541	AA	CC	CC	INTERGENIC		
SNP_40503_A_11638715	NC_021165.1	Ca_Kabuli_Chr06	11638715	TT	CC	CC	INTERGENIC		
SNP_40504_A_11646752	NC_021165.1	Ca_Kabuli_Chr06	11646752	GG	AA	AA	INTERGENIC		
SNP_40505_A_11647408	NC_021165.1	Ca_Kabuli_Chr06	11647408	TT	CC	CC	INTERGENIC		
SNP_40506_A_11649004	NC_021165.1	Ca_Kabuli_Chr06	11649004	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40507_A_11649283	NC_021165.1	Ca_Kabuli_Chr06	11649283	AA	GG	GG	DRR	101489534	40S ribosomal protein S5-like
SNP_40508_A_11649285	NC_021165.1	Ca_Kabuli_Chr06	11649285	TT	AA	AA	DRR	101489534	40S ribosomal protein S5-like
SNP_40509_A_11649444	NC_021165.1	Ca_Kabuli_Chr06	11649444	CC	TT	TT	DRR	101489534	40S ribosomal protein S5-like
SNP_40511_A_11650946	NC_021165.1	Ca_Kabuli_Chr06	11650946	TT	CC	CC	INTRON	101489534	40S ribosomal protein S5-like
SNP_40512_A_11650978	NC_021165.1	Ca_Kabuli_Chr06	11650978	TT	AA	AA	INTRON	101489534	40S ribosomal protein S5-like
SNP_40513_A_11654273	NC_021165.1	Ca_Kabuli_Chr06	11654273	TT	AA	AA	URR	101489534	40S ribosomal protein S5-like
SNP_40514_A_11654973	NC_021165.1	Ca_Kabuli_Chr06	11654973	CC	AA	AA	URR	101489534	40S ribosomal protein S5-like
SNP_40517_A_11657603	NC_021165.1	Ca_Kabuli_Chr06	11657603	CC	TT	TT	INTRON	101489853	uncharacterized LOC101489853
SNP_40518_A_11659814	NC_021165.1	Ca_Kabuli_Chr06	11659814	AA	GG	GG	SYNONYMOUS_CODING	101489853	uncharacterized LOC101489853
SNP_40519_A_11660434	NC_021165.1	Ca_Kabuli_Chr06	11660434	GG	CC	CC	INTRON	101489853	uncharacterized LOC101489853
SNP_40520_A_11660455	NC_021165.1	Ca_Kabuli_Chr06	11660455	AA	TT	TT	INTRON	101489853	uncharacterized LOC101489853
SNP_40521_A_11660456	NC_021165.1	Ca_Kabuli_Chr06	11660456	AA	CC	CC	INTRON	101489853	uncharacterized LOC101489853
SNP_40522_A_11660458	NC_021165.1	Ca_Kabuli_Chr06	11660458	GG	CC	CC	INTRON	101489853	uncharacterized LOC101489853
SNP_40523_A_11660474	NC_021165.1	Ca_Kabuli_Chr06	11660474	AA	GG	GG	INTRON	101489853	uncharacterized LOC101489853
SNP_40524_A_11660970	NC_021165.1	Ca_Kabuli_Chr06	11660970	TT	CC	CC	INTRON	101489853	uncharacterized LOC101489853
SNP_40525_A_11663253	NC_021165.1	Ca_Kabuli_Chr06	11663253	GG	AA	AA	INTERGENIC		
SNP_40526_A_11666677	NC_021165.1	Ca_Kabuli_Chr06	11666677	AA	GG	GG	INTRON	101490188	protein FLOWERING LOCUS D
SNP_40527_A_11667164	NC_021165.1	Ca_Kabuli_Chr06	11667164	AA	TT	TT	INTRON	101490188	protein FLOWERING LOCUS D
SNP_40528_A_11670635	NC_021165.1	Ca_Kabuli_Chr06	11670635	GG	AA	AA	URR	101490188	protein FLOWERING LOCUS D
SNP_40529_A_11671920	NC_021165.1	Ca_Kabuli_Chr06	11671920	AA	TT	TT	URR	101490188	protein FLOWERING LOCUS D
SNP_40530_A_11672036	NC_021165.1	Ca_Kabuli_Chr06	11672036	TT	AA	AA	URR	101490188	protein FLOWERING LOCUS D
SNP_40531_A_11672083	NC_021165.1	Ca_Kabuli_Chr06	11672083	GG	TT	TT	URR	101490188	protein FLOWERING LOCUS D

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40532_A_11675048	NC_021165.1	Ca_Kabuli_Chr06	11675048	CC	GG	GG	INTERGENIC			
SNP_40533_A_11675050	NC_021165.1	Ca_Kabuli_Chr06	11675050	AA	GG	GG	INTERGENIC			
SNP_40534_A_11676332	NC_021165.1	Ca_Kabuli_Chr06	11676332	GG	AA	AA	INTERGENIC			
SNP_40535_A_11676334	NC_021165.1	Ca_Kabuli_Chr06	11676334	CC	TT	TT	INTERGENIC			
SNP_40536_A_11677289	NC_021165.1	Ca_Kabuli_Chr06	11677289	TT	CC	CC	INTERGENIC			
SNP_40537_A_11677313	NC_021165.1	Ca_Kabuli_Chr06	11677313	GG	AA	AA	INTERGENIC			
SNP_40538_A_11677371	NC_021165.1	Ca_Kabuli_Chr06	11677371	AA	TT	TT	INTERGENIC			
SNP_40539_A_11677411	NC_021165.1	Ca_Kabuli_Chr06	11677411	TT	CC	CC	INTERGENIC			
SNP_40540_A_11677484	NC_021165.1	Ca_Kabuli_Chr06	11677484	GG	AA	AA	INTERGENIC			
SNP_40541_A_11677489	NC_021165.1	Ca_Kabuli_Chr06	11677489	AA	CC	CC	INTERGENIC			
SNP_40542_A_11677518	NC_021165.1	Ca_Kabuli_Chr06	11677518	GG	TT	TT	INTERGENIC			
SNP_40543_A_11677585	NC_021165.1	Ca_Kabuli_Chr06	11677585	TT	CC	CC	INTERGENIC			
SNP_40544_A_11677645	NC_021165.1	Ca_Kabuli_Chr06	11677645	AA	GG	GG	INTERGENIC			
SNP_40545_A_11677757	NC_021165.1	Ca_Kabuli_Chr06	11677757	CC	GG	GG	INTERGENIC			
SNP_40546_A_11677774	NC_021165.1	Ca_Kabuli_Chr06	11677774	GG	AA	AA	INTERGENIC			
SNP_40547_A_11677828	NC_021165.1	Ca_Kabuli_Chr06	11677828	TT	CC	CC	INTERGENIC			
SNP_40548_A_11677929	NC_021165.1	Ca_Kabuli_Chr06	11677929	GG	TT	TT	INTERGENIC			
SNP_40549_A_11677992	NC_021165.1	Ca_Kabuli_Chr06	11677992	TT	CC	CC	INTERGENIC			
SNP_40550_A_11678320	NC_021165.1	Ca_Kabuli_Chr06	11678320	AA	GG	GG	INTERGENIC			
SNP_40551_A_11678427	NC_021165.1	Ca_Kabuli_Chr06	11678427	TT	CC	CC	INTERGENIC			
SNP_40552_A_11678636	NC_021165.1	Ca_Kabuli_Chr06	11678636	AA	CC	CC	INTERGENIC			
SNP_40553_A_11679548	NC_021165.1	Ca_Kabuli_Chr06	11679548	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40554_A_11679562	NC_021165.1	Ca_Kabuli_Chr06	11679562	TT	CC	CC	INTERGENIC		
SNP_40555_A_11680706	NC_021165.1	Ca_Kabuli_Chr06	11680706	GG	AA	AA	INTERGENIC		
SNP_40558_A_11682748	NC_021165.1	Ca_Kabuli_Chr06	11682748	CC	TT	TT	INTERGENIC		
SNP_40559_A_11682751	NC_021165.1	Ca_Kabuli_Chr06	11682751	TT	CC	CC	INTERGENIC		
SNP_40560_A_11682782	NC_021165.1	Ca_Kabuli_Chr06	11682782	AA	GG	GG	INTERGENIC		
SNP_40561_A_11682789	NC_021165.1	Ca_Kabuli_Chr06	11682789	TT	CC	CC	INTERGENIC		
SNP_40562_A_11682816	NC_021165.1	Ca_Kabuli_Chr06	11682816	GG	AA	AA	INTERGENIC		
SNP_40563_A_11682833	NC_021165.1	Ca_Kabuli_Chr06	11682833	CC	GG	GG	INTERGENIC		
SNP_40564_A_11684215	NC_021165.1	Ca_Kabuli_Chr06	11684215	AA	CC	CC	DRR	101492231	uncharacterized LOC101492231
SNP_40565_A_11684233	NC_021165.1	Ca_Kabuli_Chr06	11684233	GG	AA	AA	DRR	101492231	uncharacterized LOC101492231
SNP_40566_A_11684333	NC_021165.1	Ca_Kabuli_Chr06	11684333	AA	CC	CC	DRR	101492231	uncharacterized LOC101492231
SNP_40568_A_11689480	NC_021165.1	Ca_Kabuli_Chr06	11689480	TT	CC	CC	INTERGENIC		
SNP_40571_A_11693413	NC_021165.1	Ca_Kabuli_Chr06	11693413	CC	TT	TT	INTERGENIC		
SNP_40572_A_11696444	NC_021165.1	Ca_Kabuli_Chr06	11696444	AA	CC	CC	INTERGENIC		
SNP_40573_A_11697697	NC_021165.1	Ca_Kabuli_Chr06	11697697	GG	AA	AA	INTERGENIC		
SNP_40574_A_11700400	NC_021165.1	Ca_Kabuli_Chr06	11700400	AA	CC	CC	INTERGENIC		
SNP_40575_A_11700432	NC_021165.1	Ca_Kabuli_Chr06	11700432	TT	GG	GG	INTERGENIC		
SNP_40576_A_11701474	NC_021165.1	Ca_Kabuli_Chr06	11701474	AA	GG	GG	DRR	101492570	uncharacterized LOC101492570
SNP_40577_A_11703431	NC_021165.1	Ca_Kabuli_Chr06	11703431	CC	TT	TT	URR	101492570	uncharacterized LOC101492570
SNP_40578_A_11703438	NC_021165.1	Ca_Kabuli_Chr06	11703438	TT	GG	GG	URR	101492570	uncharacterized LOC101492570
SNP_40579_A_11707013	NC_021165.1	Ca_Kabuli_Chr06	11707013	TT	CC	CC	SYNONYMOUS_CODING	101492901	protein HOTHEAD-like
SNP_40580_A_11707248	NC_021165.1	Ca_Kabuli_Chr06	11707248	GG	AA	AA	SYNONYMOUS_CODING	101492901	protein HOTHEAD-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40581_A_11710129	NC_021165.1	Ca_Kabuli_Chr06	11710129	AA	CC	CC	INTERGENIC			
SNP_40582_A_11710426	NC_021165.1	Ca_Kabuli_Chr06	11710426	AA	GG	GG	INTERGENIC			
SNP_40583_A_11712768	NC_021165.1	Ca_Kabuli_Chr06	11712768	CC	AA	AA	INTERGENIC			
SNP_40584_A_11712794	NC_021165.1	Ca_Kabuli_Chr06	11712794	TT	CC	CC	INTERGENIC			
SNP_40585_A_11714525	NC_021165.1	Ca_Kabuli_Chr06	11714525	TT	GG	GG	INTERGENIC			
SNP_40586_A_11714531	NC_021165.1	Ca_Kabuli_Chr06	11714531	AA	GG	GG	INTERGENIC			
SNP_40587_A_11716452	NC_021165.1	Ca_Kabuli_Chr06	11716452	CC	TT	TT	INTERGENIC			
SNP_40588_A_11718894	NC_021165.1	Ca_Kabuli_Chr06	11718894	GG	TT	TT	INTERGENIC			
SNP_40589_A_11719832	NC_021165.1	Ca_Kabuli_Chr06	11719832	CC	TT	TT	INTERGENIC			
SNP_40590_A_11719837	NC_021165.1	Ca_Kabuli_Chr06	11719837	CC	AA	AA	INTERGENIC			
SNP_40591_A_11720084	NC_021165.1	Ca_Kabuli_Chr06	11720084	CC	AA	AA	INTERGENIC			
SNP_40592_A_11720854	NC_021165.1	Ca_Kabuli_Chr06	11720854	GG	AA	AA	INTERGENIC			
SNP_40593_A_11720856	NC_021165.1	Ca_Kabuli_Chr06	11720856	GG	AA	AA	INTERGENIC			
SNP_40594_A_11721211	NC_021165.1	Ca_Kabuli_Chr06	11721211	AA	GG	GG	INTERGENIC			
SNP_40595_A_11721255	NC_021165.1	Ca_Kabuli_Chr06	11721255	GG	AA	AA	INTERGENIC			
SNP_40596_A_11721272	NC_021165.1	Ca_Kabuli_Chr06	11721272	TT	AA	AA	INTERGENIC			
SNP_40598_A_11726698	NC_021165.1	Ca_Kabuli_Chr06	11726698	CC	TT	TT	INTERGENIC			
SNP_40599_A_11726702	NC_021165.1	Ca_Kabuli_Chr06	11726702	TT	CC	CC	INTERGENIC			
SNP_40600_A_11726993	NC_021165.1	Ca_Kabuli_Chr06	11726993	AA	TT	TT	INTERGENIC			
SNP_40601_A_11730757	NC_021165.1	Ca_Kabuli_Chr06	11730757	AA	GG	GG	INTERGENIC			
SNP_40602_A_11734680	NC_021165.1	Ca_Kabuli_Chr06	11734680	GG	AA	AA	INTERGENIC			
SNP_40603_A_11734946	NC_021165.1	Ca_Kabuli_Chr06	11734946	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40605_A_11737127	NC_021165.1	Ca_Kabuli_Chr06	11737127	CC	TT	TT	INTERGENIC			
SNP_40606_A_11737128	NC_021165.1	Ca_Kabuli_Chr06	11737128	TT	CC	CC	INTERGENIC			
SNP_40607_A_11737480	NC_021165.1	Ca_Kabuli_Chr06	11737480	AA	TT	TT	INTERGENIC			
SNP_40609_A_11738329	NC_021165.1	Ca_Kabuli_Chr06	11738329	CC	TT	TT	INTERGENIC			
SNP_40610_A_11738883	NC_021165.1	Ca_Kabuli_Chr06	11738883	CC	AA	AA	INTERGENIC			
SNP_40611_A_11739289	NC_021165.1	Ca_Kabuli_Chr06	11739289	TT	AA	AA	INTERGENIC			
SNP_40612_A_11739294	NC_021165.1	Ca_Kabuli_Chr06	11739294	AA	CC	CC	INTERGENIC			
SNP_40613_A_11739436	NC_021165.1	Ca_Kabuli_Chr06	11739436	GG	AA	AA	INTERGENIC			
SNP_40614_A_11739890	NC_021165.1	Ca_Kabuli_Chr06	11739890	GG	AA	AA	INTERGENIC			
SNP_40615_A_11740214	NC_021165.1	Ca_Kabuli_Chr06	11740214	TT	CC	CC	INTERGENIC			
SNP_40616_A_11740225	NC_021165.1	Ca_Kabuli_Chr06	11740225	CC	TT	TT	INTERGENIC			
SNP_40617_A_11740365	NC_021165.1	Ca_Kabuli_Chr06	11740365	AA	TT	TT	INTERGENIC			
SNP_40618_A_11740760	NC_021165.1	Ca_Kabuli_Chr06	11740760	TT	CC	CC	INTERGENIC			
SNP_40620_A_11742622	NC_021165.1	Ca_Kabuli_Chr06	11742622	TT	GG	GG	INTERGENIC			
SNP_40621_A_11745303	NC_021165.1	Ca_Kabuli_Chr06	11745303	TT	CC	CC	URR	101493548	Unknown function	
SNP_40623_A_11746285	NC_021165.1	Ca_Kabuli_Chr06	11746285	TT	GG	GG	URR	101493548	Unknown function	
SNP_40624_A_11755181	NC_021165.1	Ca_Kabuli_Chr06	11755181	TT	AA	AA	INTERGENIC			
SNP_40625_A_11760698	NC_021165.1	Ca_Kabuli_Chr06	11760698	GG	TT	TT	INTERGENIC			
SNP_40627_A_11761357	NC_021165.1	Ca_Kabuli_Chr06	11761357	AA	GG	GG	INTERGENIC			
SNP_40628_A_11761368	NC_021165.1	Ca_Kabuli_Chr06	11761368	AA	TT	TT	INTERGENIC			
SNP_40629_A_11761465	NC_021165.1	Ca_Kabuli_Chr06	11761465	TT	CC	CC	INTERGENIC			
SNP_40630_A_11763052	NC_021165.1	Ca_Kabuli_Chr06	11763052	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40631_A_11763097	NC_021165.1	Ca_Kabuli_Chr06	11763097	TT	CC	CC	INTERGENIC			
SNP_40632_A_11763454	NC_021165.1	Ca_Kabuli_Chr06	11763454	TT	CC	CC	INTERGENIC			
SNP_40633_A_11765666	NC_021165.1	Ca_Kabuli_Chr06	11765666	GG	TT	TT	INTERGENIC			
SNP_40634_A_11779365	NC_021165.1	Ca_Kabuli_Chr06	11779365	TT	CC	CC	INTERGENIC			
SNP_40635_A_11781432	NC_021165.1	Ca_Kabuli_Chr06	11781432	AA	GG	GG	INTERGENIC			
SNP_40636_A_11783698	NC_021165.1	Ca_Kabuli_Chr06	11783698	AA	GG	GG	INTERGENIC			
SNP_40637_A_11784395	NC_021165.1	Ca_Kabuli_Chr06	11784395	CC	AA	AA	INTERGENIC			
SNP_40638_A_11784399	NC_021165.1	Ca_Kabuli_Chr06	11784399	AA	GG	GG	INTERGENIC			
SNP_40639_A_11785159	NC_021165.1	Ca_Kabuli_Chr06	11785159	CC	TT	TT	INTERGENIC			
SNP_40641_A_11789119	NC_021165.1	Ca_Kabuli_Chr06	11789119	TT	CC	CC	INTERGENIC			
SNP_40642_A_11790861	NC_021165.1	Ca_Kabuli_Chr06	11790861	GG	AA	AA	INTERGENIC			
SNP_40643_A_11791072	NC_021165.1	Ca_Kabuli_Chr06	11791072	CC	TT	TT	INTERGENIC			
SNP_40646_A_11807351	NC_021165.1	Ca_Kabuli_Chr06	11807351	GG	TT	TT	INTERGENIC			
SNP_40647_A_11809714	NC_021165.1	Ca_Kabuli_Chr06	11809714	CC	AA	AA	INTERGENIC			
SNP_40648_A_11812959	NC_021165.1	Ca_Kabuli_Chr06	11812959	AA	CC	CC	INTERGENIC			
SNP_40649_A_11813918	NC_021165.1	Ca_Kabuli_Chr06	11813918	CC	TT	TT	INTERGENIC			
SNP_40650_A_11827647	NC_021165.1	Ca_Kabuli_Chr06	11827647	GG	TT	TT	INTERGENIC			
SNP_40651_A_11840279	NC_021165.1	Ca_Kabuli_Chr06	11840279	GG	AA	AA	INTERGENIC			
SNP_40652_A_11840287	NC_021165.1	Ca_Kabuli_Chr06	11840287	CC	TT	TT	INTERGENIC			
SNP_40653_A_11840293	NC_021165.1	Ca_Kabuli_Chr06	11840293	TT	CC	CC	INTERGENIC			
SNP_40654_A_11840373	NC_021165.1	Ca_Kabuli_Chr06	11840373	TT	CC	CC	INTERGENIC			
SNP_40656_A_11850507	NC_021165.1	Ca_Kabuli_Chr06	11850507	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40657_A_11850537	NC_021165.1	Ca_Kabuli_Chr06	11850537	GG	AA	AA	INTERGENIC		
SNP_40658_A_11883910	NC_021165.1	Ca_Kabuli_Chr06	11883910	AA	GG	GG	INTERGENIC		
SNP_40659_A_11890200	NC_021165.1	Ca_Kabuli_Chr06	11890200	GG	TT	TT	INTERGENIC		
SNP_40660_A_11922689	NC_021165.1	Ca_Kabuli_Chr06	11922689	CC	TT	TT	INTERGENIC		
SNP_40661_A_11969224	NC_021165.1	Ca_Kabuli_Chr06	11969224	AA	GG	GG	INTERGENIC		
SNP_40662_A_11969297	NC_021165.1	Ca_Kabuli_Chr06	11969297	CC	TT	TT	INTERGENIC		
SNP_40663_A_11969366	NC_021165.1	Ca_Kabuli_Chr06	11969366	GG	AA	AA	INTERGENIC		
SNP_40664_A_11996943	NC_021165.1	Ca_Kabuli_Chr06	11996943	CC	GG	GG	INTRON	101495149	pentatricopeptide chloroplastic-like repeat-containing protein DOT4,
SNP_40665_A_12007280	NC_021165.1	Ca_Kabuli_Chr06	12007280	AA	CC	CC	INTRON	101495149	pentatricopeptide chloroplastic-like repeat-containing protein DOT4,
SNP_40666_A_12007780	NC_021165.1	Ca_Kabuli_Chr06	12007780	TT	CC	CC	INTRON	101495149	pentatricopeptide chloroplastic-like repeat-containing protein DOT4,
SNP_40667_A_12011876	NC_021165.1	Ca_Kabuli_Chr06	12011876	AA	TT	TT	INTRON	101495149	pentatricopeptide chloroplastic-like repeat-containing protein DOT4,
SNP_40669_A_12078344	NC_021165.1	Ca_Kabuli_Chr06	12078344	TT	GG	GG	INTRON	101496125	Unknown function
SNP_40670_A_12089508	NC_021165.1	Ca_Kabuli_Chr06	12089508	TT	CC	CC	INTERGENIC		
SNP_40671_A_12089612	NC_021165.1	Ca_Kabuli_Chr06	12089612	TT	CC	CC	INTERGENIC		
SNP_40672_A_12089707	NC_021165.1	Ca_Kabuli_Chr06	12089707	TT	CC	CC	INTERGENIC		
SNP_40673_A_12089868	NC_021165.1	Ca_Kabuli_Chr06	12089868	GG	AA	AA	INTERGENIC		
SNP_40674_A_12090046	NC_021165.1	Ca_Kabuli_Chr06	12090046	TT	CC	CC	INTERGENIC		
SNP_40675_A_12090923	NC_021165.1	Ca_Kabuli_Chr06	12090923	AA	GG	GG	INTERGENIC		
SNP_40676_A_12091041	NC_021165.1	Ca_Kabuli_Chr06	12091041	AA	GG	GG	INTERGENIC		
SNP_40677_A_12091432	NC_021165.1	Ca_Kabuli_Chr06	12091432	AA	CC	CC	INTERGENIC		
SNP_40678_A_12091458	NC_021165.1	Ca_Kabuli_Chr06	12091458	GG	TT	TT	INTERGENIC		
SNP_40679_A_12091466	NC_021165.1	Ca_Kabuli_Chr06	12091466	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40680_A_12104906	NC_021165.1	Ca_Kabuli_Chr06	12104906	CC	TT	TT	INTERGENIC		
SNP_40682_A_12109723	NC_021165.1	Ca_Kabuli_Chr06	12109723	AA	CC	CC	DRR	101496783	uncharacterized LOC101496783
SNP_40683_A_12111972	NC_021165.1	Ca_Kabuli_Chr06	12111972	AA	GG	GG	URR	101496783	uncharacterized LOC101496783
SNP_40685_A_12127440	NC_021165.1	Ca_Kabuli_Chr06	12127440	GG	TT	TT	INTERGENIC		
SNP_40686_A_12127481	NC_021165.1	Ca_Kabuli_Chr06	12127481	GG	AA	AA	INTERGENIC		
SNP_40687_A_12199901	NC_021165.1	Ca_Kabuli_Chr06	12199901	CC	AA	AA	INTERGENIC		
SNP_40688_A_12236494	NC_021165.1	Ca_Kabuli_Chr06	12236494	TT	CC	CC	INTERGENIC		
SNP_40689_A_12236535	NC_021165.1	Ca_Kabuli_Chr06	12236535	TT	CC	CC	INTERGENIC		
SNP_40690_A_12236576	NC_021165.1	Ca_Kabuli_Chr06	12236576	TT	CC	CC	INTERGENIC		
SNP_40691_A_12236595	NC_021165.1	Ca_Kabuli_Chr06	12236595	TT	GG	GG	INTERGENIC		
SNP_40692_A_12236640	NC_021165.1	Ca_Kabuli_Chr06	12236640	CC	TT	TT	INTERGENIC		
SNP_40693_A_12236814	NC_021165.1	Ca_Kabuli_Chr06	12236814	GG	AA	AA	INTERGENIC		
SNP_40694_A_12238250	NC_021165.1	Ca_Kabuli_Chr06	12238250	GG	TT	TT	INTERGENIC		
SNP_40695_A_12238253	NC_021165.1	Ca_Kabuli_Chr06	12238253	GG	AA	AA	INTERGENIC		
SNP_40697_A_12238293	NC_021165.1	Ca_Kabuli_Chr06	12238293	GG	TT	TT	INTERGENIC		
SNP_40698_A_12238809	NC_021165.1	Ca_Kabuli_Chr06	12238809	GG	TT	TT	INTERGENIC		
SNP_40699_A_12248814	NC_021165.1	Ca_Kabuli_Chr06	12248814	AA	GG	GG	INTERGENIC		
SNP_40700_A_12251664	NC_021165.1	Ca_Kabuli_Chr06	12251664	GG	AA	AA	DRR	101497766	uncharacterized LOC101497766
SNP_40701_A_12252262	NC_021165.1	Ca_Kabuli_Chr06	12252262	AA	GG	GG	NON_SYNONYMOUS_CODING	101497766	uncharacterized LOC101497766
SNP_40703_A_12254382	NC_021165.1	Ca_Kabuli_Chr06	12254382	AA	CC	CC	URR	101497766	uncharacterized LOC101497766
SNP_40705_A_12254528	NC_021165.1	Ca_Kabuli_Chr06	12254528	CC	TT	TT	URR	101497766	uncharacterized LOC101497766
SNP_40706_A_12258934	NC_021165.1	Ca_Kabuli_Chr06	12258934	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40707_A_12258948	NC_021165.1	Ca_Kabuli_Chr06	12258948	GG	AA	AA	INTERGENIC		
SNP_40708_A_12258959	NC_021165.1	Ca_Kabuli_Chr06	12258959	GG	AA	AA	INTERGENIC		
SNP_40709_A_12258962	NC_021165.1	Ca_Kabuli_Chr06	12258962	CC	GG	GG	INTERGENIC		
SNP_40710_A_12260137	NC_021165.1	Ca_Kabuli_Chr06	12260137	GG	AA	AA	INTERGENIC		
SNP_40711_A_12260202	NC_021165.1	Ca_Kabuli_Chr06	12260202	AA	CC	CC	INTERGENIC		
SNP_40712_A_12260205	NC_021165.1	Ca_Kabuli_Chr06	12260205	CC	TT	TT	INTERGENIC		
SNP_40713_A_12260311	NC_021165.1	Ca_Kabuli_Chr06	12260311	TT	CC	CC	INTERGENIC		
SNP_40714_A_12260352	NC_021165.1	Ca_Kabuli_Chr06	12260352	TT	CC	CC	INTERGENIC		
SNP_40715_A_12260757	NC_021165.1	Ca_Kabuli_Chr06	12260757	GG	AA	AA	INTERGENIC		
SNP_40716_A_12270658	NC_021165.1	Ca_Kabuli_Chr06	12270658	CC	TT	TT	INTERGENIC		
SNP_40717_A_12309377	NC_021165.1	Ca_Kabuli_Chr06	12309377	GG	TT	TT	INTERGENIC		
SNP_40718_A_12309386	NC_021165.1	Ca_Kabuli_Chr06	12309386	TT	CC	CC	INTERGENIC		
SNP_40719_A_12315495	NC_021165.1	Ca_Kabuli_Chr06	12315495	TT	CC	CC	DRR	101498089	probable polygalacturonase At3g15720
SNP_40720_A_12333862	NC_021165.1	Ca_Kabuli_Chr06	12333862	AA	TT	TT	INTERGENIC		
SNP_40721_A_12335009	NC_021165.1	Ca_Kabuli_Chr06	12335009	CC	AA	AA	INTERGENIC		
SNP_40722_A_12335042	NC_021165.1	Ca_Kabuli_Chr06	12335042	TT	CC	CC	INTERGENIC		
SNP_40723_A_12335259	NC_021165.1	Ca_Kabuli_Chr06	12335259	CC	AA	AA	INTERGENIC		
SNP_40725_A_12335803	NC_021165.1	Ca_Kabuli_Chr06	12335803	AA	TT	TT	DRR	101494821	uncharacterized LOC101494821
SNP_40726_A_12340733	NC_021165.1	Ca_Kabuli_Chr06	12340733	CC	TT	TT	INTERGENIC		
SNP_40727_A_12340748	NC_021165.1	Ca_Kabuli_Chr06	12340748	GG	AA	AA	INTERGENIC		
SNP_40728_A_12357638	NC_021165.1	Ca_Kabuli_Chr06	12357638	GG	AA	AA	INTERGENIC		
SNP_40729_A_12445734	NC_021165.1	Ca_Kabuli_Chr06	12445734	CC	GG	GG	URR	101501199	60S ribosomal protein L38-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40731_A_12549052	NC_021165.1	Ca_Kabuli_Chr06	12549052	GG	CC	CC	SYNONYMOUS_CODING	101504188	probable inositol transporter 2
SNP_40733_A_12665952	NC_021165.1	Ca_Kabuli_Chr06	12665952	CC	TT	TT	INTERGENIC		
SNP_40734_A_12712884	NC_021165.1	Ca_Kabuli_Chr06	12712884	AA	GG	GG	INTERGENIC		
SNP_40735_A_12721227	NC_021165.1	Ca_Kabuli_Chr06	12721227	TT	CC	CC	INTERGENIC		
SNP_40736_A_12724592	NC_021165.1	Ca_Kabuli_Chr06	12724592	TT	AA	AA	INTERGENIC		
SNP_40737_A_12757635	NC_021165.1	Ca_Kabuli_Chr06	12757635	AA	GG	GG	INTERGENIC		
SNP_40739_A_12835195	NC_021165.1	Ca_Kabuli_Chr06	12835195	TT	CC	CC	INTERGENIC		
SNP_40740_A_12835196	NC_021165.1	Ca_Kabuli_Chr06	12835196	AA	GG	GG	INTERGENIC		
SNP_40741_A_12853552	NC_021165.1	Ca_Kabuli_Chr06	12853552	TT	AA	AA	INTRON	101510942	putative receptor-like protein kinase At4g00960
SNP_40744_A_12856656	NC_021165.1	Ca_Kabuli_Chr06	12856656	CC	GG	GG	URR	101510942	putative receptor-like protein kinase At4g00960
SNP_40745_A_12861040	NC_021165.1	Ca_Kabuli_Chr06	12861040	CC	TT	TT	INTERGENIC		
SNP_40747_A_12862143	NC_021165.1	Ca_Kabuli_Chr06	12862143	CC	TT	TT	INTERGENIC		
SNP_40748_A_12862590	NC_021165.1	Ca_Kabuli_Chr06	12862590	TT	CC	CC	INTERGENIC		
SNP_40749_A_12864202	NC_021165.1	Ca_Kabuli_Chr06	12864202	TT	CC	CC	INTRON	101511457	putative ubiquitin-conjugating enzyme E2 38
SNP_40750_A_12865231	NC_021165.1	Ca_Kabuli_Chr06	12865231	CC	TT	TT	INTRON	101511457	putative ubiquitin-conjugating enzyme E2 38
SNP_40752_A_12868410	NC_021165.1	Ca_Kabuli_Chr06	12868410	GG	TT	TT	URR	101511457	putative ubiquitin-conjugating enzyme E2 38
SNP_40753_A_12869818	NC_021165.1	Ca_Kabuli_Chr06	12869818	CC	TT	TT	URR	101511457	putative ubiquitin-conjugating enzyme E2 38
SNP_40754_A_12871234	NC_021165.1	Ca_Kabuli_Chr06	12871234	AA	TT	TT	INTERGENIC		
SNP_40755_A_12871268	NC_021165.1	Ca_Kabuli_Chr06	12871268	GG	AA	AA	INTERGENIC		
SNP_40756_A_12871284	NC_021165.1	Ca_Kabuli_Chr06	12871284	TT	AA	AA	INTERGENIC		
SNP_40757_A_12871346	NC_021165.1	Ca_Kabuli_Chr06	12871346	AA	GG	GG	INTERGENIC		
SNP_40758_A_12877206	NC_021165.1	Ca_Kabuli_Chr06	12877206	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40760_A_12877357	NC_021165.1	Ca_Kabuli_Chr06	12877357	TT	CC	CC	INTERGENIC		
SNP_40761_A_12877364	NC_021165.1	Ca_Kabuli_Chr06	12877364	CC	TT	TT	INTERGENIC		
SNP_40762_A_12877529	NC_021165.1	Ca_Kabuli_Chr06	12877529	GG	AA	AA	INTERGENIC		
SNP_40763_A_12878854	NC_021165.1	Ca_Kabuli_Chr06	12878854	CC	TT	TT	DRR	101511782	L-Ala-D/L-amino acid epimerase
SNP_40765_A_12883866	NC_021165.1	Ca_Kabuli_Chr06	12883866	TT	AA	AA	URR	101511782	L-Ala-D/L-amino acid epimerase
SNP_40766_A_12884163	NC_021165.1	Ca_Kabuli_Chr06	12884163	GG	CC	CC	URR	101511782	L-Ala-D/L-amino acid epimerase
SNP_40767_A_12885837	NC_021165.1	Ca_Kabuli_Chr06	12885837	TT	CC	CC	INTERGENIC		
SNP_40768_A_12887005	NC_021165.1	Ca_Kabuli_Chr06	12887005	TT	CC	CC	URR	101512095	uncharacterized LOC101512095
SNP_40769_A_12887019	NC_021165.1	Ca_Kabuli_Chr06	12887019	CC	AA	AA	URR	101512095	uncharacterized LOC101512095
SNP_40770_A_12887025	NC_021165.1	Ca_Kabuli_Chr06	12887025	GG	AA	AA	URR	101512095	uncharacterized LOC101512095
SNP_40771_A_12887027	NC_021165.1	Ca_Kabuli_Chr06	12887027	CC	TT	TT	URR	101512095	uncharacterized LOC101512095
SNP_40772_A_12887033	NC_021165.1	Ca_Kabuli_Chr06	12887033	AA	GG	GG	URR	101512095	uncharacterized LOC101512095
SNP_40773_A_12887048	NC_021165.1	Ca_Kabuli_Chr06	12887048	AA	GG	GG	URR	101512095	uncharacterized LOC101512095
SNP_40776_A_12894082	NC_021165.1	Ca_Kabuli_Chr06	12894082	CC	TT	TT	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40777_A_12894142	NC_021165.1	Ca_Kabuli_Chr06	12894142	CC	AA	AA	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40778_A_12896969	NC_021165.1	Ca_Kabuli_Chr06	12896969	GG	TT	TT	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40779_A_12896991	NC_021165.1	Ca_Kabuli_Chr06	12896991	CC	TT	TT	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40780_A_12897002	NC_021165.1	Ca_Kabuli_Chr06	12897002	CC	TT	TT	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40781_A_12897040	NC_021165.1	Ca_Kabuli_Chr06	12897040	TT	AA	AA	INTRON	101512427	uncharacterized protein PF07_0086-like
SNP_40783_A_12904402	NC_021165.1	Ca_Kabuli_Chr06	12904402	GG	AA	AA	DRR	101512747	probable serine/threonine-protein kinase At1g18390
SNP_40784_A_12909537	NC_021165.1	Ca_Kabuli_Chr06	12909537	AA	CC	CC	URR	101512747	probable serine/threonine-protein kinase At1g18390
SNP_40786_A_12909913	NC_021165.1	Ca_Kabuli_Chr06	12909913	GG	CC	CC	URR	101512747	probable serine/threonine-protein kinase At1g18390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40787_A_12916096	NC_021165.1	Ca_Kabuli_Chr06	12916096	AA	GG	GG	INTERGENIC		
SNP_40788_A_12920519	NC_021165.1	Ca_Kabuli_Chr06	12920519	AA	CC	CC	INTERGENIC		
SNP_40789_A_12920535	NC_021165.1	Ca_Kabuli_Chr06	12920535	TT	CC	CC	INTERGENIC		
SNP_40791_A_12920621	NC_021165.1	Ca_Kabuli_Chr06	12920621	TT	CC	CC	INTERGENIC		
SNP_40792_A_12920910	NC_021165.1	Ca_Kabuli_Chr06	12920910	AA	GG	GG	INTERGENIC		
SNP_40793_A_12920915	NC_021165.1	Ca_Kabuli_Chr06	12920915	AA	TT	TT	INTERGENIC		
SNP_40794_A_12921532	NC_021165.1	Ca_Kabuli_Chr06	12921532	AA	TT	TT	INTERGENIC		
SNP_40795_A_12921546	NC_021165.1	Ca_Kabuli_Chr06	12921546	CC	TT	TT	INTERGENIC		
SNP_40797_A_12923136	NC_021165.1	Ca_Kabuli_Chr06	12923136	TT	AA	AA	DRR	101513074	zinc finger protein 4-like
SNP_40798_A_12923830	NC_021165.1	Ca_Kabuli_Chr06	12923830	CC	TT	TT	DRR	101513074	zinc finger protein 4-like
SNP_40799_A_12923844	NC_021165.1	Ca_Kabuli_Chr06	12923844	AA	CC	CC	DRR	101513074	zinc finger protein 4-like
SNP_40800_A_12933646	NC_021165.1	Ca_Kabuli_Chr06	12933646	TT	CC	CC	INTERGENIC		
SNP_40801_A_12934556	NC_021165.1	Ca_Kabuli_Chr06	12934556	CC	TT	TT	DRR	101513400	protein OBERON 3
SNP_40804_A_12934938	NC_021165.1	Ca_Kabuli_Chr06	12934938	GG	TT	TT	DRR	101513400	protein OBERON 3
SNP_40806_A_12936126	NC_021165.1	Ca_Kabuli_Chr06	12936126	AA	TT	TT	INTERGENIC		
SNP_40807_A_12936150	NC_021165.1	Ca_Kabuli_Chr06	12936150	TT	CC	CC	INTERGENIC		
SNP_40808_A_12940507	NC_021165.1	Ca_Kabuli_Chr06	12940507	AA	TT	TT	URR	101513400	protein OBERON 3
SNP_40809_A_12940638	NC_021165.1	Ca_Kabuli_Chr06	12940638	CC	TT	TT	URR	101513400	protein OBERON 3
SNP_40811_A_12943092	NC_021165.1	Ca_Kabuli_Chr06	12943092	GG	CC	CC	URR	101513713	probable transmembrane ascorbate ferrireductase 3
SNP_40812_A_12950093	NC_021165.1	Ca_Kabuli_Chr06	12950093	AA	GG	GG	INTERGENIC		
SNP_40813_A_12950534	NC_021165.1	Ca_Kabuli_Chr06	12950534	GG	TT	TT	INTERGENIC		
SNP_40815_A_12952174	NC_021165.1	Ca_Kabuli_Chr06	12952174	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_40816_A_12952179	NC_021165.1	Ca_Kabuli_Chr06	12952179	CC	GG	GG	INTERGENIC			
SNP_40819_A_12953183	NC_021165.1	Ca_Kabuli_Chr06	12953183	GG	AA	AA	INTERGENIC			
SNP_40820_A_12954318	NC_021165.1	Ca_Kabuli_Chr06	12954318	AA	TT	TT	INTERGENIC			
SNP_40821_A_12954319	NC_021165.1	Ca_Kabuli_Chr06	12954319	CC	TT	TT	INTERGENIC			
SNP_40822_A_12954374	NC_021165.1	Ca_Kabuli_Chr06	12954374	GG	AA	AA	INTERGENIC			
SNP_40823_A_12954386	NC_021165.1	Ca_Kabuli_Chr06	12954386	GG	AA	AA	INTERGENIC			
SNP_40824_A_12954429	NC_021165.1	Ca_Kabuli_Chr06	12954429	TT	AA	AA	INTERGENIC			
SNP_40826_A_12954619	NC_021165.1	Ca_Kabuli_Chr06	12954619	AA	TT	TT	INTERGENIC			
SNP_40827_A_12954628	NC_021165.1	Ca_Kabuli_Chr06	12954628	AA	GG	GG	INTERGENIC			
SNP_40828_A_12954682	NC_021165.1	Ca_Kabuli_Chr06	12954682	CC	AA	AA	INTERGENIC			
SNP_40829_A_12954951	NC_021165.1	Ca_Kabuli_Chr06	12954951	AA	GG	GG	INTERGENIC			
SNP_40830_A_12954965	NC_021165.1	Ca_Kabuli_Chr06	12954965	GG	TT	TT	INTERGENIC			
SNP_40831_A_12955267	NC_021165.1	Ca_Kabuli_Chr06	12955267	AA	CC	CC	INTERGENIC			
SNP_40832_A_12955292	NC_021165.1	Ca_Kabuli_Chr06	12955292	AA	TT	TT	INTERGENIC			
SNP_40833_A_12955957	NC_021165.1	Ca_Kabuli_Chr06	12955957	TT	GG	GG	INTERGENIC			
SNP_40834_A_12956242	NC_021165.1	Ca_Kabuli_Chr06	12956242	CC	TT	TT	INTERGENIC			
SNP_40835_A_12956492	NC_021165.1	Ca_Kabuli_Chr06	12956492	TT	CC	CC	INTERGENIC			
SNP_40837_A_12957273	NC_021165.1	Ca_Kabuli_Chr06	12957273	AA	GG	GG	INTERGENIC			
SNP_40838_A_12957287	NC_021165.1	Ca_Kabuli_Chr06	12957287	CC	TT	TT	INTERGENIC			
SNP_40839_A_12957374	NC_021165.1	Ca_Kabuli_Chr06	12957374	TT	CC	CC	INTERGENIC			
SNP_40840_A_12957385	NC_021165.1	Ca_Kabuli_Chr06	12957385	AA	TT	TT	INTERGENIC			
SNP_40842_A_12957555	NC_021165.1	Ca_Kabuli_Chr06	12957555	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40843_A_12957998	NC_021165.1	Ca_Kabuli_Chr06	12957998	CC	GG	GG	DRR	101514050	probable xyloglucan endotransglucosylase/hydrolase protein 28
SNP_40845_A_12962484	NC_021165.1	Ca_Kabuli_Chr06	12962484	TT	AA	AA	URR	101514050	probable xyloglucan endotransglucosylase/hydrolase protein 28
SNP_40846_A_12962912	NC_021165.1	Ca_Kabuli_Chr06	12962912	AA	GG	GG	URR	101514050	probable xyloglucan endotransglucosylase/hydrolase protein 28
SNP_40848_A_12964692	NC_021165.1	Ca_Kabuli_Chr06	12964692	AA	CC	CC	INTERGENIC		
SNP_40849_A_12965016	NC_021165.1	Ca_Kabuli_Chr06	12965016	CC	TT	TT	INTERGENIC		
SNP_40850_A_12965225	NC_021165.1	Ca_Kabuli_Chr06	12965225	TT	AA	AA	INTERGENIC		
SNP_40851_A_12965335	NC_021165.1	Ca_Kabuli_Chr06	12965335	CC	TT	TT	INTERGENIC		
SNP_40854_A_12966061	NC_021165.1	Ca_Kabuli_Chr06	12966061	TT	CC	CC	INTERGENIC		
SNP_40855_A_12971127	NC_021165.1	Ca_Kabuli_Chr06	12971127	GG	AA	AA	INTRON	101514379	uncharacterized LOC101514379
SNP_40856_A_12972137	NC_021165.1	Ca_Kabuli_Chr06	12972137	CC	AA	AA	INTRON	101514379	uncharacterized LOC101514379
SNP_40858_A_12977814	NC_021165.1	Ca_Kabuli_Chr06	12977814	AA	GG	GG	DRR	101515785	purple acid phosphatase 7-like
SNP_40859_A_12977828	NC_021165.1	Ca_Kabuli_Chr06	12977828	GG	AA	AA	DRR	101515785	purple acid phosphatase 7-like
SNP_40861_A_12981466	NC_021165.1	Ca_Kabuli_Chr06	12981466	AA	CC	CC	INTERGENIC		
SNP_40862_A_12982839	NC_021165.1	Ca_Kabuli_Chr06	12982839	AA	GG	GG	INTERGENIC		
SNP_40863_A_13007624	NC_021165.1	Ca_Kabuli_Chr06	13007624	TT	CC	CC	URR	101488888	type I inositol 1,4,5-trisphosphate 5-phosphatase CVP2
SNP_40865_A_13014591	NC_021165.1	Ca_Kabuli_Chr06	13014591	TT	AA	AA	URR	101489535	receptor-like protein kinase FERONIA
SNP_40866_A_13016486	NC_021165.1	Ca_Kabuli_Chr06	13016486	CC	TT	TT	INTERGENIC		
SNP_40868_A_13033064	NC_021165.1	Ca_Kabuli_Chr06	13033064	TT	CC	CC	INTERGENIC		
SNP_40869_A_13033068	NC_021165.1	Ca_Kabuli_Chr06	13033068	CC	TT	TT	INTERGENIC		
SNP_40870_A_13033078	NC_021165.1	Ca_Kabuli_Chr06	13033078	AA	CC	CC	INTERGENIC		
SNP_40871_A_13033147	NC_021165.1	Ca_Kabuli_Chr06	13033147	GG	AA	AA	INTERGENIC		
SNP_40872_A_13033158	NC_021165.1	Ca_Kabuli_Chr06	13033158	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40873_A_13033163	NC_021165.1	Ca_Kabuli_Chr06	13033163	GG	AA	AA	INTERGENIC		
SNP_40874_A_13033195	NC_021165.1	Ca_Kabuli_Chr06	13033195	GG	TT	TT	INTERGENIC		
SNP_40875_A_13033270	NC_021165.1	Ca_Kabuli_Chr06	13033270	CC	TT	TT	INTERGENIC		
SNP_40876_A_13033364	NC_021165.1	Ca_Kabuli_Chr06	13033364	TT	CC	CC	INTERGENIC		
SNP_40877_A_13033578	NC_021165.1	Ca_Kabuli_Chr06	13033578	GG	AA	AA	INTERGENIC		
SNP_40878_A_13033686	NC_021165.1	Ca_Kabuli_Chr06	13033686	CC	TT	TT	INTERGENIC		
SNP_40879_A_13043090	NC_021165.1	Ca_Kabuli_Chr06	13043090	CC	TT	TT	INTERGENIC		
SNP_40880_A_13211054	NC_021165.1	Ca_Kabuli_Chr06	13211054	CC	AA	AA	INTERGENIC		
SNP_40881_A_13285877	NC_021165.1	Ca_Kabuli_Chr06	13285877	AA	GG	GG	INTRON	101499404	V-type proton ATPase subunit F
SNP_40883_A_13330230	NC_021165.1	Ca_Kabuli_Chr06	13330230	GG	CC	CC	URR	101500244	uncharacterized LOC101500244
SNP_40885_A_13369602	NC_021165.1	Ca_Kabuli_Chr06	13369602	CC	TT	TT	INTERGENIC		
SNP_40886_A_13389552	NC_021165.1	Ca_Kabuli_Chr06	13389552	AA	GG	GG	INTERGENIC		
SNP_40887_A_13393678	NC_021165.1	Ca_Kabuli_Chr06	13393678	TT	CC	CC	DRR	101502775	isoflavone 2'-hydroxylase-like
SNP_40889_A_13416643	NC_021165.1	Ca_Kabuli_Chr06	13416643	CC	GG	GG	INTERGENIC		
SNP_40890_A_13417026	NC_021165.1	Ca_Kabuli_Chr06	13417026	TT	CC	CC	INTERGENIC		
SNP_40891_A_13418735	NC_021165.1	Ca_Kabuli_Chr06	13418735	CC	TT	TT	DRR	101503091	isoflavone 2'-hydroxylase-like
SNP_40894_A_13436669	NC_021165.1	Ca_Kabuli_Chr06	13436669	CC	GG	GG	INTERGENIC		
SNP_40895_A_13436682	NC_021165.1	Ca_Kabuli_Chr06	13436682	AA	CC	CC	INTERGENIC		
SNP_40896_A_13450265	NC_021165.1	Ca_Kabuli_Chr06	13450265	AA	TT	TT	INTERGENIC		
SNP_40897_A_13469175	NC_021165.1	Ca_Kabuli_Chr06	13469175	AA	GG	GG	INTERGENIC		
SNP_40900_A_13583086	NC_021165.1	Ca_Kabuli_Chr06	13583086	TT	GG	GG	INTERGENIC		
SNP_40901_A_13652493	NC_021165.1	Ca_Kabuli_Chr06	13652493	TT	CC	CC	URR	101509532	copper-transporting ATPase RAN1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40902_A_13686263	NC_021165.1	Ca_Kabuli_Chr06	13686263	GG	AA	AA	INTRON	101511901	uncharacterized LOC101511901
SNP_40903_A_13738508	NC_021165.1	Ca_Kabuli_Chr06	13738508	AA	CC	CC	DRR	101513511	pentatricopeptide repeat-containing protein At2g41080
SNP_40904_A_13738514	NC_021165.1	Ca_Kabuli_Chr06	13738514	TT	CC	CC	DRR	101513511	pentatricopeptide repeat-containing protein At2g41080
SNP_40905_A_13782732	NC_021165.1	Ca_Kabuli_Chr06	13782732	AA	GG	GG	INTERGENIC		
SNP_40907_A_13975424	NC_021165.1	Ca_Kabuli_Chr06	13975424	CC	TT	TT	URR	101510173	desiccation-related protein PCC13-62-like
SNP_40908_A_14064288	NC_021165.1	Ca_Kabuli_Chr06	14064288	GG	CC	CC	INTERGENIC		
SNP_40909_A_14064489	NC_021165.1	Ca_Kabuli_Chr06	14064489	CC	TT	TT	INTERGENIC		
SNP_40910_A_14084090	NC_021165.1	Ca_Kabuli_Chr06	14084090	TT	CC	CC	INTERGENIC		
SNP_40911_A_14084310	NC_021165.1	Ca_Kabuli_Chr06	14084310	CC	TT	TT	INTERGENIC		
SNP_40913_A_14084335	NC_021165.1	Ca_Kabuli_Chr06	14084335	AA	TT	TT	INTERGENIC		
SNP_40914_A_14139629	NC_021165.1	Ca_Kabuli_Chr06	14139629	GG	AA	AA	INTERGENIC		
SNP_40915_A_14194401	NC_021165.1	Ca_Kabuli_Chr06	14194401	GG	AA	AA	INTERGENIC		
SNP_40918_A_14238511	NC_021165.1	Ca_Kabuli_Chr06	14238511	AA	CC	CC	INTERGENIC		
SNP_40921_A_14351606	NC_021165.1	Ca_Kabuli_Chr06	14351606	GG	CC	CC	URR	101514381	uncharacterized LOC101514381
SNP_40922_A_14351633	NC_021165.1	Ca_Kabuli_Chr06	14351633	CC	TT	TT	URR	101514381	uncharacterized LOC101514381
SNP_40923_A_14351646	NC_021165.1	Ca_Kabuli_Chr06	14351646	CC	TT	TT	URR	101514381	uncharacterized LOC101514381
SNP_40924_A_14392991	NC_021165.1	Ca_Kabuli_Chr06	14392991	GG	AA	AA	INTERGENIC		
SNP_40925_A_14456095	NC_021165.1	Ca_Kabuli_Chr06	14456095	AA	GG	GG	INTERGENIC		
SNP_40926_A_14456106	NC_021165.1	Ca_Kabuli_Chr06	14456106	GG	TT	TT	INTERGENIC		
SNP_40927_A_14456117	NC_021165.1	Ca_Kabuli_Chr06	14456117	CC	AA	AA	INTERGENIC		
SNP_40928_A_14456128	NC_021165.1	Ca_Kabuli_Chr06	14456128	TT	GG	GG	INTERGENIC		
SNP_40929_A_14456179	NC_021165.1	Ca_Kabuli_Chr06	14456179	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40930_A_14456188	NC_021165.1	Ca_Kabuli_Chr06	14456188	AA	GG	GG	INTERGENIC		
SNP_40931_A_14469822	NC_021165.1	Ca_Kabuli_Chr06	14469822	AA	TT	TT	INTERGENIC		
SNP_40932_A_14470474	NC_021165.1	Ca_Kabuli_Chr06	14470474	CC	TT	TT	INTERGENIC		
SNP_40933_A_14471677	NC_021165.1	Ca_Kabuli_Chr06	14471677	GG	AA	AA	INTERGENIC		
SNP_40934_A_14471699	NC_021165.1	Ca_Kabuli_Chr06	14471699	AA	GG	GG	INTERGENIC		
SNP_40935_A_14534321	NC_021165.1	Ca_Kabuli_Chr06	14534321	CC	AA	AA	INTERGENIC		
SNP_40936_A_14553476	NC_021165.1	Ca_Kabuli_Chr06	14553476	AA	TT	TT	INTERGENIC		
SNP_40937_A_14553477	NC_021165.1	Ca_Kabuli_Chr06	14553477	TT	AA	AA	INTERGENIC		
SNP_40939_A_14553671	NC_021165.1	Ca_Kabuli_Chr06	14553671	AA	GG	GG	INTERGENIC		
SNP_40940_A_14554090	NC_021165.1	Ca_Kabuli_Chr06	14554090	CC	TT	TT	INTERGENIC		
SNP_40941_A_14554109	NC_021165.1	Ca_Kabuli_Chr06	14554109	TT	GG	GG	INTERGENIC		
SNP_40942_A_14584096	NC_021165.1	Ca_Kabuli_Chr06	14584096	TT	AA	AA	INTERGENIC		
SNP_40943_A_14623790	NC_021165.1	Ca_Kabuli_Chr06	14623790	AA	TT	TT	INTERGENIC		
SNP_40944_A_14673098	NC_021165.1	Ca_Kabuli_Chr06	14673098	AA	TT	TT	INTERGENIC		
SNP_40945_A_14687879	NC_021165.1	Ca_Kabuli_Chr06	14687879	GG	CC	CC	URR	101491266	uncharacterized LOC101491266
SNP_40947_A_14755095	NC_021165.1	Ca_Kabuli_Chr06	14755095	CC	TT	TT	INTERGENIC		
SNP_40948_A_14755186	NC_021165.1	Ca_Kabuli_Chr06	14755186	TT	GG	GG	INTERGENIC		
SNP_40949_A_14755507	NC_021165.1	Ca_Kabuli_Chr06	14755507	AA	TT	TT	INTERGENIC		
SNP_40950_A_14792599	NC_021165.1	Ca_Kabuli_Chr06	14792599	AA	GG	GG	DRR	101497767	ubiquinol oxidase 2, mitochondrial-like
SNP_40951_A_14804713	NC_021165.1	Ca_Kabuli_Chr06	14804713	TT	CC	CC	INTRON	101498303	alternative oxidase 3, mitochondrial-like
SNP_40952_A_15046540	NC_021165.1	Ca_Kabuli_Chr06	15046540	AA	CC	CC	INTRON	101511688	beta-ureidopropionase
SNP_40953_A_15080376	NC_021165.1	Ca_Kabuli_Chr06	15080376	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40954_A_15080393	NC_021165.1	Ca_Kabuli_Chr06	15080393	GG	CC	CC	INTERGENIC		
SNP_40955_A_15083698	NC_021165.1	Ca_Kabuli_Chr06	15083698	TT	CC	CC	INTERGENIC		
SNP_40956_A_15083747	NC_021165.1	Ca_Kabuli_Chr06	15083747	GG	AA	AA	INTERGENIC		
SNP_40957_A_15083754	NC_021165.1	Ca_Kabuli_Chr06	15083754	TT	CC	CC	INTERGENIC		
SNP_40958_A_15083837	NC_021165.1	Ca_Kabuli_Chr06	15083837	TT	CC	CC	INTERGENIC		
SNP_40959_A_15083852	NC_021165.1	Ca_Kabuli_Chr06	15083852	CC	TT	TT	INTERGENIC		
SNP_40960_A_15084047	NC_021165.1	Ca_Kabuli_Chr06	15084047	AA	GG	GG	INTERGENIC		
SNP_40961_A_15084056	NC_021165.1	Ca_Kabuli_Chr06	15084056	AA	CC	CC	INTERGENIC		
SNP_40962_A_15084070	NC_021165.1	Ca_Kabuli_Chr06	15084070	CC	TT	TT	INTERGENIC		
SNP_40963_A_15123086	NC_021165.1	Ca_Kabuli_Chr06	15123086	GG	AA	AA	INTRON	101515786	dynammin-related protein 3A-like
SNP_40964_A_15180846	NC_021165.1	Ca_Kabuli_Chr06	15180846	GG	AA	AA	INTERGENIC		
SNP_40965_A_15193071	NC_021165.1	Ca_Kabuli_Chr06	15193071	CC	AA	AA	INTERGENIC		
SNP_40966_A_15193072	NC_021165.1	Ca_Kabuli_Chr06	15193072	GG	AA	AA	INTERGENIC		
SNP_40967_A_15198153	NC_021165.1	Ca_Kabuli_Chr06	15198153	CC	TT	TT	INTERGENIC		
SNP_40968_A_15373114	NC_021165.1	Ca_Kabuli_Chr06	15373114	AA	TT	TT	INTERGENIC		
SNP_40969_A_15375965	NC_021165.1	Ca_Kabuli_Chr06	15375965	CC	TT	TT	INTERGENIC		
SNP_40971_A_15444820	NC_021165.1	Ca_Kabuli_Chr06	15444820	AA	GG	GG	INTERGENIC		
SNP_40972_A_15493468	NC_021165.1	Ca_Kabuli_Chr06	15493468	TT	AA	AA	INTERGENIC		
SNP_40973_A_15495023	NC_021165.1	Ca_Kabuli_Chr06	15495023	AA	GG	GG	INTERGENIC		
SNP_40974_A_15528993	NC_021165.1	Ca_Kabuli_Chr06	15528993	CC	TT	TT	INTERGENIC		
SNP_40975_A_15555549	NC_021165.1	Ca_Kabuli_Chr06	15555549	GG	AA	AA	URR	101494917	(3S,6E)-nerolidol synthase 1-like
SNP_40976_A_15555553	NC_021165.1	Ca_Kabuli_Chr06	15555553	TT	CC	CC	URR	101494917	(3S,6E)-nerolidol synthase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_40977_A_1555582	NC_021165.1	Ca_Kabuli_Chr06	1555582	TT	AA	AA	URR	101494917	(3S,6E)-nerolidol synthase 1-like
SNP_40979_A_15555869	NC_021165.1	Ca_Kabuli_Chr06	15555869	AA	GG	GG	INTERGENIC		
SNP_40980_A_15555891	NC_021165.1	Ca_Kabuli_Chr06	15555891	AA	GG	GG	INTERGENIC		
SNP_40981_A_15555914	NC_021165.1	Ca_Kabuli_Chr06	15555914	AA	CC	CC	INTERGENIC		
SNP_40982_A_15559111	NC_021165.1	Ca_Kabuli_Chr06	15559111	AA	GG	GG	INTERGENIC		
SNP_40984_A_15559178	NC_021165.1	Ca_Kabuli_Chr06	15559178	CC	TT	TT	INTERGENIC		
SNP_40985_A_15562545	NC_021165.1	Ca_Kabuli_Chr06	15562545	TT	AA	AA	INTERGENIC		
SNP_40986_A_15562582	NC_021165.1	Ca_Kabuli_Chr06	15562582	TT	CC	CC	INTERGENIC		
SNP_40987_A_15562631	NC_021165.1	Ca_Kabuli_Chr06	15562631	GG	AA	AA	INTERGENIC		
SNP_40988_A_15562660	NC_021165.1	Ca_Kabuli_Chr06	15562660	AA	GG	GG	INTERGENIC		
SNP_40989_A_15562679	NC_021165.1	Ca_Kabuli_Chr06	15562679	GG	AA	AA	INTERGENIC		
SNP_40990_A_15562687	NC_021165.1	Ca_Kabuli_Chr06	15562687	GG	TT	TT	INTERGENIC		
SNP_40991_A_15564356	NC_021165.1	Ca_Kabuli_Chr06	15564356	AA	CC	CC	INTERGENIC		
SNP_40992_A_15564391	NC_021165.1	Ca_Kabuli_Chr06	15564391	GG	AA	AA	INTERGENIC		
SNP_40993_A_15564439	NC_021165.1	Ca_Kabuli_Chr06	15564439	AA	GG	GG	INTERGENIC		
SNP_40994_A_15564537	NC_021165.1	Ca_Kabuli_Chr06	15564537	TT	CC	CC	INTERGENIC		
SNP_40995_A_15564552	NC_021165.1	Ca_Kabuli_Chr06	15564552	GG	TT	TT	INTERGENIC		
SNP_40996_A_15564557	NC_021165.1	Ca_Kabuli_Chr06	15564557	AA	TT	TT	INTERGENIC		
SNP_40997_A_15564562	NC_021165.1	Ca_Kabuli_Chr06	15564562	CC	TT	TT	INTERGENIC		
SNP_40999_A_15577805	NC_021165.1	Ca_Kabuli_Chr06	15577805	AA	GG	GG	INTERGENIC		
SNP_41000_A_15597960	NC_021165.1	Ca_Kabuli_Chr06	15597960	TT	AA	AA	URR	101503644	(3S,6E)-nerolidol synthase 1-like
SNP_41001_A_15598171	NC_021165.1	Ca_Kabuli_Chr06	15598171	GG	CC	CC	URR	101503644	(3S,6E)-nerolidol synthase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41002_A_15612607	NC_021165.1	Ca_Kabuli_Chr06	15612607	CC	GG	GG	INTERGENIC			
SNP_41003_A_15612615	NC_021165.1	Ca_Kabuli_Chr06	15612615	AA	GG	GG	INTERGENIC			
SNP_41004_A_15612666	NC_021165.1	Ca_Kabuli_Chr06	15612666	AA	CC	CC	INTERGENIC			
SNP_41005_A_15612690	NC_021165.1	Ca_Kabuli_Chr06	15612690	AA	GG	GG	INTERGENIC			
SNP_41006_A_15613045	NC_021165.1	Ca_Kabuli_Chr06	15613045	AA	CC	CC	INTERGENIC			
SNP_41007_A_15621289	NC_021165.1	Ca_Kabuli_Chr06	15621289	CC	TT	TT	INTERGENIC			
SNP_41009_A_15634708	NC_021165.1	Ca_Kabuli_Chr06	15634708	GG	AA	AA	DRR	101495251	probable terpene synthase 13	
SNP_41010_A_15656058	NC_021165.1	Ca_Kabuli_Chr06	15656058	CC	TT	TT	INTERGENIC			
SNP_41011_A_15656908	NC_021165.1	Ca_Kabuli_Chr06	15656908	AA	TT	TT	INTERGENIC			
SNP_41012_A_15681020	NC_021165.1	Ca_Kabuli_Chr06	15681020	AA	TT	CC	INTERGENIC			
SNP_41013_A_15713159	NC_021165.1	Ca_Kabuli_Chr06	15713159	GG	AA	AA	INTERGENIC			
SNP_41014_A_15727060	NC_021165.1	Ca_Kabuli_Chr06	15727060	CC	AA	AA	INTERGENIC			
SNP_41016_A_15727213	NC_021165.1	Ca_Kabuli_Chr06	15727213	AA	GG	GG	INTERGENIC			
SNP_41017_A_15727466	NC_021165.1	Ca_Kabuli_Chr06	15727466	GG	TT	TT	INTERGENIC			
SNP_41019_A_15727591	NC_021165.1	Ca_Kabuli_Chr06	15727591	TT	CC	CC	INTERGENIC			
SNP_41020_A_15727635	NC_021165.1	Ca_Kabuli_Chr06	15727635	GG	CC	CC	INTERGENIC			
SNP_41021_A_15727719	NC_021165.1	Ca_Kabuli_Chr06	15727719	CC	AA	AA	INTERGENIC			
SNP_41023_A_15729554	NC_021165.1	Ca_Kabuli_Chr06	15729554	TT	AA	AA	INTERGENIC			
SNP_41024_A_15729555	NC_021165.1	Ca_Kabuli_Chr06	15729555	CC	AA	AA	INTERGENIC			
SNP_41025_A_15729637	NC_021165.1	Ca_Kabuli_Chr06	15729637	TT	CC	CC	INTERGENIC			
SNP_41026_A_15730266	NC_021165.1	Ca_Kabuli_Chr06	15730266	TT	GG	GG	INTERGENIC			
SNP_41027_A_15730611	NC_021165.1	Ca_Kabuli_Chr06	15730611	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41029_A_15730726	NC_021165.1	Ca_Kabuli_Chr06	15730726	GG	CC	CC	INTERGENIC			
SNP_41030_A_15730751	NC_021165.1	Ca_Kabuli_Chr06	15730751	TT	GG	GG	INTERGENIC			
SNP_41031_A_15730794	NC_021165.1	Ca_Kabuli_Chr06	15730794	CC	TT	TT	INTERGENIC			
SNP_41032_A_15730858	NC_021165.1	Ca_Kabuli_Chr06	15730858	AA	GG	GG	INTERGENIC			
SNP_41033_A_15730874	NC_021165.1	Ca_Kabuli_Chr06	15730874	CC	AA	AA	INTERGENIC			
SNP_41034_A_15730935	NC_021165.1	Ca_Kabuli_Chr06	15730935	AA	TT	TT	INTERGENIC			
SNP_41035_A_15730980	NC_021165.1	Ca_Kabuli_Chr06	15730980	AA	GG	GG	INTERGENIC			
SNP_41036_A_15731043	NC_021165.1	Ca_Kabuli_Chr06	15731043	TT	AA	AA	INTERGENIC			
SNP_41038_A_15731068	NC_021165.1	Ca_Kabuli_Chr06	15731068	AA	TT	TT	INTERGENIC			
SNP_41039_A_15731077	NC_021165.1	Ca_Kabuli_Chr06	15731077	CC	GG	GG	INTERGENIC			
SNP_41041_A_15737095	NC_021165.1	Ca_Kabuli_Chr06	15737095	GG	AA	AA	INTERGENIC			
SNP_41042_A_15752416	NC_021165.1	Ca_Kabuli_Chr06	15752416	GG	AA	AA	INTERGENIC			
SNP_41043_A_15803715	NC_021165.1	Ca_Kabuli_Chr06	15803715	GG	AA	AA	NON_SYNONYMOUS_CODING	101504189		uncharacterized LOC101504189
SNP_41044_A_15816924	NC_021165.1	Ca_Kabuli_Chr06	15816924	CC	TT	TT	INTERGENIC			
SNP_41045_A_15826128	NC_021165.1	Ca_Kabuli_Chr06	15826128	CC	AA	AA	DRR	101499804		uncharacterized LOC101499804
SNP_41046_A_15826129	NC_021165.1	Ca_Kabuli_Chr06	15826129	TT	GG	GG	DRR	101499804		uncharacterized LOC101499804
SNP_41047_A_15867441	NC_021165.1	Ca_Kabuli_Chr06	15867441	TT	CC	CC	DRR	101500770		myb-related protein 308-like
SNP_41049_A_15882982	NC_021165.1	Ca_Kabuli_Chr06	15882982	AA	TT	TT	URR	101501085		sugar transport protein 1-like
SNP_41050_A_15900994	NC_021165.1	Ca_Kabuli_Chr06	15900994	AA	GG	GG	INTERGENIC			
SNP_41051_A_15901002	NC_021165.1	Ca_Kabuli_Chr06	15901002	TT	GG	GG	INTERGENIC			
SNP_41052_A_15906719	NC_021165.1	Ca_Kabuli_Chr06	15906719	AA	GG	GG	URR	101501930		uncharacterized LOC101501930
SNP_41053_A_15944754	NC_021165.1	Ca_Kabuli_Chr06	15944754	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41054_A_15945404	NC_021165.1	Ca_Kabuli_Chr06	15945404	GG	CC	CC	INTERGENIC		
SNP_41055_A_15982024	NC_021165.1	Ca_Kabuli_Chr06	15982024	AA	TT	TT	INTRON	101505147	cannabidiolic acid synthase-like
SNP_41056_A_15982085	NC_021165.1	Ca_Kabuli_Chr06	15982085	GG	CC	CC	INTRON	101505147	cannabidiolic acid synthase-like
SNP_41057_A_15990958	NC_021165.1	Ca_Kabuli_Chr06	15990958	TT	CC	CC	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41058_A_15991143	NC_021165.1	Ca_Kabuli_Chr06	15991143	TT	GG	GG	NON_SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41059_A_15991147	NC_021165.1	Ca_Kabuli_Chr06	15991147	AA	GG	GG	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41060_A_15991154	NC_021165.1	Ca_Kabuli_Chr06	15991154	GG	CC	CC	NON_SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41061_A_15991177	NC_021165.1	Ca_Kabuli_Chr06	15991177	CC	TT	TT	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41062_A_15991239	NC_021165.1	Ca_Kabuli_Chr06	15991239	TT	CC	CC	NON_SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41063_A_15991354	NC_021165.1	Ca_Kabuli_Chr06	15991354	GG	CC	CC	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41064_A_15991357	NC_021165.1	Ca_Kabuli_Chr06	15991357	TT	GG	GG	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41065_A_15991579	NC_021165.1	Ca_Kabuli_Chr06	15991579	TT	AA	AA	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41066_A_15991775	NC_021165.1	Ca_Kabuli_Chr06	15991775	GG	AA	AA	NON_SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41067_A_15991852	NC_021165.1	Ca_Kabuli_Chr06	15991852	AA	GG	GG	SYNONYMOUS_CODING	101505463	reticuline oxidase-like protein
SNP_41068_A_15993358	NC_021165.1	Ca_Kabuli_Chr06	15993358	TT	CC	CC	URR	101505463	reticuline oxidase-like protein
SNP_41069_A_15993473	NC_021165.1	Ca_Kabuli_Chr06	15993473	CC	AA	AA	URR	101505463	reticuline oxidase-like protein
SNP_41070_A_15993526	NC_021165.1	Ca_Kabuli_Chr06	15993526	GG	AA	AA	URR	101505463	reticuline oxidase-like protein
SNP_41071_A_15999334	NC_021165.1	Ca_Kabuli_Chr06	15999334	TT	CC	CC	URR	101505800	Unknown function
SNP_41072_A_15999550	NC_021165.1	Ca_Kabuli_Chr06	15999550	TT	GG	GG	URR	101505800	Unknown function
SNP_41073_A_15999602	NC_021165.1	Ca_Kabuli_Chr06	15999602	GG	AA	AA	URR	101505800	Unknown function
SNP_41074_A_15999607	NC_021165.1	Ca_Kabuli_Chr06	15999607	TT	CC	CC	URR	101505800	Unknown function
SNP_41075_A_15999718	NC_021165.1	Ca_Kabuli_Chr06	15999718	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41077_A_1599992	NC_021165.1	Ca_Kabuli_Chr06	1599992	CC	AA	AA	INTERGENIC		
SNP_41078_A_16010494	NC_021165.1	Ca_Kabuli_Chr06	16010494	TT	AA	AA	INTERGENIC		
SNP_41079_A_16010596	NC_021165.1	Ca_Kabuli_Chr06	16010596	TT	CC	CC	DRR	101490627	reticuline oxidase-like protein
SNP_41080_A_16010649	NC_021165.1	Ca_Kabuli_Chr06	16010649	TT	AA	AA	DRR	101490627	reticuline oxidase-like protein
SNP_41081_A_16010743	NC_021165.1	Ca_Kabuli_Chr06	16010743	AA	GG	GG	DRR	101490627	reticuline oxidase-like protein
SNP_41082_A_16010796	NC_021165.1	Ca_Kabuli_Chr06	16010796	AA	GG	GG	DRR	101490627	reticuline oxidase-like protein
SNP_41083_A_16010801	NC_021165.1	Ca_Kabuli_Chr06	16010801	GG	CC	CC	DRR	101490627	reticuline oxidase-like protein
SNP_41084_A_16011070	NC_021165.1	Ca_Kabuli_Chr06	16011070	TT	AA	AA	DRR	101490627	reticuline oxidase-like protein
SNP_41086_A_16013267	NC_021165.1	Ca_Kabuli_Chr06	16013267	AA	GG	GG	INTRON	101490627	reticuline oxidase-like protein
SNP_41087_A_16013527	NC_021165.1	Ca_Kabuli_Chr06	16013527	TT	GG	GG	INTRON	101490627	reticuline oxidase-like protein
SNP_41088_A_16018067	NC_021165.1	Ca_Kabuli_Chr06	16018067	CC	TT	TT	INTERGENIC		
SNP_41089_A_16018103	NC_021165.1	Ca_Kabuli_Chr06	16018103	GG	AA	AA	INTERGENIC		
SNP_41090_A_16018267	NC_021165.1	Ca_Kabuli_Chr06	16018267	GG	AA	AA	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41091_A_16018421	NC_021165.1	Ca_Kabuli_Chr06	16018421	CC	GG	GG	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41092_A_16018794	NC_021165.1	Ca_Kabuli_Chr06	16018794	TT	CC	CC	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41093_A_16018813	NC_021165.1	Ca_Kabuli_Chr06	16018813	CC	TT	TT	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41094_A_16018821	NC_021165.1	Ca_Kabuli_Chr06	16018821	AA	GG	GG	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41095_A_16019074	NC_021165.1	Ca_Kabuli_Chr06	16019074	TT	CC	CC	DRR	101490952	tetrahydrocannabinolic acid synthase-like
SNP_41096_A_16019517	NC_021165.1	Ca_Kabuli_Chr06	16019517	TT	GG	GG	URR	101490627	reticuline oxidase-like protein
SNP_41097_A_16019685	NC_021165.1	Ca_Kabuli_Chr06	16019685	AA	GG	GG	URR	101490627	reticuline oxidase-like protein
SNP_41098_A_16019735	NC_021165.1	Ca_Kabuli_Chr06	16019735	TT	CC	CC	URR	101490627	reticuline oxidase-like protein
SNP_41099_A_16019915	NC_021165.1	Ca_Kabuli_Chr06	16019915	CC	AA	AA	URR	101490627	reticuline oxidase-like protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41100_A_16019934	NC_021165.1	Ca_Kabuli_Chr06	16019934	CC	TT	TT	URR	101490627	reticuline oxidase-like protein
SNP_41101_A_16020114	NC_021165.1	Ca_Kabuli_Chr06	16020114	GG	TT	TT	URR	101490627	reticuline oxidase-like protein
SNP_41102_A_16020535	NC_021165.1	Ca_Kabuli_Chr06	16020535	GG	AA	AA	URR	101490627	reticuline oxidase-like protein
SNP_41103_A_16057274	NC_021165.1	Ca_Kabuli_Chr06	16057274	TT	CC	CC	NON_SYNONYMOUS_CODING	101492235	reticuline oxidase-like protein
SNP_41104_A_16154108	NC_021165.1	Ca_Kabuli_Chr06	16154108	CC	TT	TT	URR	101509425	uncharacterized LOC101509425
SNP_41105_A_16181607	NC_021165.1	Ca_Kabuli_Chr06	16181607	TT	CC	CC	DRR	101510074	uncharacterized LOC101510074
SNP_41106_A_16237334	NC_021165.1	Ca_Kabuli_Chr06	16237334	TT	CC	CC	INTERGENIC		
SNP_41107_A_16243391	NC_021165.1	Ca_Kabuli_Chr06	16243391	TT	CC	CC	INTERGENIC		
SNP_41109_A_16304307	NC_021165.1	Ca_Kabuli_Chr06	16304307	TT	AA	AA	INTERGENIC		
SNP_41112_A_16425988	NC_021165.1	Ca_Kabuli_Chr06	16425988	CC	TT	TT	INTERGENIC		
SNP_41113_A_16426245	NC_021165.1	Ca_Kabuli_Chr06	16426245	AA	CC	CC	INTERGENIC		
SNP_41114_A_16426262	NC_021165.1	Ca_Kabuli_Chr06	16426262	GG	AA	AA	INTERGENIC		
SNP_41115_A_16426350	NC_021165.1	Ca_Kabuli_Chr06	16426350	AA	GG	GG	INTERGENIC		
SNP_41116_A_16426392	NC_021165.1	Ca_Kabuli_Chr06	16426392	TT	GG	GG	INTERGENIC		
SNP_41117_A_16428132	NC_021165.1	Ca_Kabuli_Chr06	16428132	AA	GG	GG	DRR	101494822	Unknown function
SNP_41118_A_16428134	NC_021165.1	Ca_Kabuli_Chr06	16428134	AA	CC	CC	DRR	101494822	Unknown function
SNP_41119_A_16428164	NC_021165.1	Ca_Kabuli_Chr06	16428164	AA	GG	GG	DRR	101494822	Unknown function
SNP_41120_A_16428202	NC_021165.1	Ca_Kabuli_Chr06	16428202	TT	CC	CC	DRR	101494822	Unknown function
SNP_41121_A_16428364	NC_021165.1	Ca_Kabuli_Chr06	16428364	GG	AA	AA	INTERGENIC		
SNP_41122_A_16428450	NC_021165.1	Ca_Kabuli_Chr06	16428450	TT	CC	CC	INTERGENIC		
SNP_41123_A_16436457	NC_021165.1	Ca_Kabuli_Chr06	16436457	TT	CC	CC	INTERGENIC		
SNP_41125_A_16544877	NC_021165.1	Ca_Kabuli_Chr06	16544877	TT	CC	CC	INTRON	101495030	splicing factor 3B subunit 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41126_A_16544878	NC_021165.1	Ca_Kabuli_Chr06	16544878	TT	AA	AA	INTRON	101495030	splicing factor 3B subunit 2
SNP_41129_A_16600012	NC_021165.1	Ca_Kabuli_Chr06	16600012	GG	AA	AA	INTERGENIC		
SNP_41130_A_16600116	NC_021165.1	Ca_Kabuli_Chr06	16600116	AA	CC	CC	INTERGENIC		
SNP_41131_A_16629382	NC_021165.1	Ca_Kabuli_Chr06	16629382	TT	AA	AA	DRR	101499089	RNA polymerase II C-terminal domain phosphatase-like 1
SNP_41132_A_16686453	NC_021165.1	Ca_Kabuli_Chr06	16686453	GG	AA	AA	DRR	101501833	stem-specific protein TSJT1-like
SNP_41134_A_16822042	NC_021165.1	Ca_Kabuli_Chr06	16822042	TT	CC	CC	INTRON	101507840	uncharacterized LOC101507840
SNP_41135_A_16822056	NC_021165.1	Ca_Kabuli_Chr06	16822056	CC	TT	TT	INTRON	101507840	uncharacterized LOC101507840
SNP_41136_A_16822245	NC_021165.1	Ca_Kabuli_Chr06	16822245	AA	GG	GG	INTRON	101507840	uncharacterized LOC101507840
SNP_41137_A_16822351	NC_021165.1	Ca_Kabuli_Chr06	16822351	AA	GG	GG	INTRON	101507840	uncharacterized LOC101507840
SNP_41138_A_16822352	NC_021165.1	Ca_Kabuli_Chr06	16822352	AA	GG	GG	INTRON	101507840	uncharacterized LOC101507840
SNP_41139_A_16822402	NC_021165.1	Ca_Kabuli_Chr06	16822402	TT	CC	CC	INTRON	101507840	uncharacterized LOC101507840
SNP_41141_A_16874642	NC_021165.1	Ca_Kabuli_Chr06	16874642	AA	TT	TT	INTERGENIC		
SNP_41142_A_16962111	NC_021165.1	Ca_Kabuli_Chr06	16962111	GG	AA	AA	INTERGENIC		
SNP_41143_A_16962131	NC_021165.1	Ca_Kabuli_Chr06	16962131	AA	GG	GG	INTERGENIC		
SNP_41144_A_16962132	NC_021165.1	Ca_Kabuli_Chr06	16962132	CC	AA	AA	INTERGENIC		
SNP_41145_A_16962134	NC_021165.1	Ca_Kabuli_Chr06	16962134	AA	GG	GG	INTERGENIC		
SNP_41146_A_16983399	NC_021165.1	Ca_Kabuli_Chr06	16983399	TT	AA	AA	INTERGENIC		
SNP_41147_A_16983559	NC_021165.1	Ca_Kabuli_Chr06	16983559	AA	GG	GG	INTERGENIC		
SNP_41148_A_16983612	NC_021165.1	Ca_Kabuli_Chr06	16983612	TT	AA	AA	INTERGENIC		
SNP_41149_A_16995808	NC_021165.1	Ca_Kabuli_Chr06	16995808	CC	TT	TT	URR	101497316	triosephosphate isomerase, cytosolic-like
SNP_41150_A_16996805	NC_021165.1	Ca_Kabuli_Chr06	16996805	TT	CC	CC	INTERGENIC		
SNP_41151_A_17069704	NC_021165.1	Ca_Kabuli_Chr06	17069704	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41152_A_17069729	NC_021165.1	Ca_Kabuli_Chr06	17069729	TT	CC	CC	INTERGENIC			
SNP_41153_A_17070121	NC_021165.1	Ca_Kabuli_Chr06	17070121	AA	GG	GG	INTERGENIC			
SNP_41154_A_17070135	NC_021165.1	Ca_Kabuli_Chr06	17070135	TT	CC	CC	INTERGENIC			
SNP_41155_A_17070244	NC_021165.1	Ca_Kabuli_Chr06	17070244	CC	TT	TT	INTERGENIC			
SNP_41156_A_17070253	NC_021165.1	Ca_Kabuli_Chr06	17070253	AA	GG	GG	INTERGENIC			
SNP_41157_A_17070268	NC_021165.1	Ca_Kabuli_Chr06	17070268	TT	CC	CC	INTERGENIC			
SNP_41158_A_17070296	NC_021165.1	Ca_Kabuli_Chr06	17070296	CC	TT	TT	INTERGENIC			
SNP_41159_A_17072179	NC_021165.1	Ca_Kabuli_Chr06	17072179	GG	AA	AA	INTERGENIC			
SNP_41160_A_17072290	NC_021165.1	Ca_Kabuli_Chr06	17072290	AA	GG	GG	INTERGENIC			
SNP_41161_A_17072392	NC_021165.1	Ca_Kabuli_Chr06	17072392	CC	TT	TT	INTERGENIC			
SNP_41162_A_17072611	NC_021165.1	Ca_Kabuli_Chr06	17072611	CC	TT	TT	INTERGENIC			
SNP_41163_A_17072615	NC_021165.1	Ca_Kabuli_Chr06	17072615	TT	CC	CC	INTERGENIC			
SNP_41164_A_17072623	NC_021165.1	Ca_Kabuli_Chr06	17072623	AA	CC	CC	INTERGENIC			
SNP_41165_A_17072641	NC_021165.1	Ca_Kabuli_Chr06	17072641	AA	GG	GG	INTERGENIC			
SNP_41166_A_17072679	NC_021165.1	Ca_Kabuli_Chr06	17072679	AA	CC	CC	INTERGENIC			
SNP_41167_A_17072693	NC_021165.1	Ca_Kabuli_Chr06	17072693	AA	GG	GG	INTERGENIC			
SNP_41168_A_17072755	NC_021165.1	Ca_Kabuli_Chr06	17072755	GG	AA	AA	INTERGENIC			
SNP_41169_A_17072873	NC_021165.1	Ca_Kabuli_Chr06	17072873	AA	GG	GG	INTERGENIC			
SNP_41171_A_17092636	NC_021165.1	Ca_Kabuli_Chr06	17092636	CC	TT	TT	DRR	101513295	mitochondrial arginine transporter BAC1	
SNP_41173_A_17102158	NC_021165.1	Ca_Kabuli_Chr06	17102158	AA	TT	TT	INTERGENIC			
SNP_41174_A_17163379	NC_021165.1	Ca_Kabuli_Chr06	17163379	GG	CC	CC	URR	101514934	polyubiquitin	
SNP_41175_A_17184223	NC_021165.1	Ca_Kabuli_Chr06	17184223	CC	TT	TT	URR	101498304	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41176_A_17184230	NC_021165.1	Ca_Kabuli_Chr06	17184230	CC	TT	TT	URR	101498304	Unknown function
SNP_41177_A_17237161	NC_021165.1	Ca_Kabuli_Chr06	17237161	TT	CC	CC	INTERGENIC		
SNP_41178_A_17238498	NC_021165.1	Ca_Kabuli_Chr06	17238498	GG	AA	AA	INTERGENIC		
SNP_41179_A_17246964	NC_021165.1	Ca_Kabuli_Chr06	17246964	TT	CC	CC	INTERGENIC		
SNP_41181_A_17279277	NC_021165.1	Ca_Kabuli_Chr06	17279277	CC	AA	AA	URR	101491269	triose phosphate/phosphate translocator, chloroplastic
SNP_41183_A_17326227	NC_021165.1	Ca_Kabuli_Chr06	17326227	AA	GG	GG	INTERGENIC		
SNP_41184_A_17347012	NC_021165.1	Ca_Kabuli_Chr06	17347012	GG	AA	AA	DRR	101499287	cellulose synthase-like protein G2
SNP_41185_A_17376696	NC_021165.1	Ca_Kabuli_Chr06	17376696	AA	GG	GG	INTERGENIC		
SNP_41186_A_17424931	NC_021165.1	Ca_Kabuli_Chr06	17424931	GG	AA	AA	INTERGENIC		
SNP_41187_A_17458957	NC_021165.1	Ca_Kabuli_Chr06	17458957	TT	CC	CC	INTERGENIC		
SNP_41188_A_17521663	NC_021165.1	Ca_Kabuli_Chr06	17521663	AA	GG	GG	INTERGENIC		
SNP_41189_A_17521712	NC_021165.1	Ca_Kabuli_Chr06	17521712	CC	TT	TT	INTERGENIC		
SNP_41190_A_17528851	NC_021165.1	Ca_Kabuli_Chr06	17528851	CC	TT	TT	INTERGENIC		
SNP_41191_A_17536471	NC_021165.1	Ca_Kabuli_Chr06	17536471	GG	AA	AA	INTERGENIC		
SNP_41192_A_17626941	NC_021165.1	Ca_Kabuli_Chr06	17626941	AA	GG	GG	INTERGENIC		
SNP_41193_A_17630764	NC_021165.1	Ca_Kabuli_Chr06	17630764	AA	TT	TT	URR	101502577	phospholipase A1-IIgamma-like
SNP_41194_A_17753138	NC_021165.1	Ca_Kabuli_Chr06	17753138	TT	GG	GG	INTRON	101507315	cysteine synthase, chloroplastic/chromoplastic
SNP_41195_A_17859016	NC_021165.1	Ca_Kabuli_Chr06	17859016	GG	CC	CC	INTRON	101511250	eukaryotic translation initiation factor 2A
SNP_41197_A_17993613	NC_021165.1	Ca_Kabuli_Chr06	17993613	TT	CC	CC	INTERGENIC		
SNP_41198_A_17993642	NC_021165.1	Ca_Kabuli_Chr06	17993642	CC	AA	AA	INTERGENIC		
SNP_41199_A_17993649	NC_021165.1	Ca_Kabuli_Chr06	17993649	CC	AA	AA	INTERGENIC		
SNP_41200_A_17994499	NC_021165.1	Ca_Kabuli_Chr06	17994499	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41201_A_18148514	NC_021165.1	Ca_Kabuli_Chr06	18148514	CC	TT	TT	URR	101495029	probable carboxylesterase 2
SNP_41202_A_18156735	NC_021165.1	Ca_Kabuli_Chr06	18156735	GG	AA	AA	DRR	101495358	probable carboxylesterase 12
SNP_41203_A_18156750	NC_021165.1	Ca_Kabuli_Chr06	18156750	CC	TT	TT	DRR	101495358	probable carboxylesterase 12
SNP_41204_A_18191891	NC_021165.1	Ca_Kabuli_Chr06	18191891	AA	TT	TT	INTERGENIC		
SNP_41205_A_18343651	NC_021165.1	Ca_Kabuli_Chr06	18343651	CC	TT	TT	SYNONYMOUS_CODING	101503093	uncharacterized LOC101503093
SNP_41206_A_18355459	NC_021165.1	Ca_Kabuli_Chr06	18355459	AA	GG	GG	INTERGENIC		
SNP_41207_A_18355460	NC_021165.1	Ca_Kabuli_Chr06	18355460	TT	CC	CC	INTERGENIC		
SNP_41208_A_18355516	NC_021165.1	Ca_Kabuli_Chr06	18355516	CC	TT	TT	INTERGENIC		
SNP_41209_A_18355544	NC_021165.1	Ca_Kabuli_Chr06	18355544	CC	TT	TT	INTERGENIC		
SNP_41210_A_18355579	NC_021165.1	Ca_Kabuli_Chr06	18355579	AA	CC	CC	INTERGENIC		
SNP_41211_A_18355664	NC_021165.1	Ca_Kabuli_Chr06	18355664	GG	AA	AA	INTERGENIC		
SNP_41212_A_18355765	NC_021165.1	Ca_Kabuli_Chr06	18355765	CC	TT	TT	INTERGENIC		
SNP_41213_A_18355771	NC_021165.1	Ca_Kabuli_Chr06	18355771	AA	TT	TT	INTERGENIC		
SNP_41214_A_18355834	NC_021165.1	Ca_Kabuli_Chr06	18355834	TT	CC	CC	INTERGENIC		
SNP_41216_A_18429085	NC_021165.1	Ca_Kabuli_Chr06	18429085	GG	AA	AA	INTERGENIC		
SNP_41217_A_18509483	NC_021165.1	Ca_Kabuli_Chr06	18509483	TT	AA	AA	URR	101506445	PI-PLC X domain-containing protein At5g67130
SNP_41219_A_18543156	NC_021165.1	Ca_Kabuli_Chr06	18543156	AA	GG	GG	INTERGENIC		
SNP_41220_A_18575315	NC_021165.1	Ca_Kabuli_Chr06	18575315	TT	GG	GG	INTERGENIC		
SNP_41221_A_18589750	NC_021165.1	Ca_Kabuli_Chr06	18589750	CC	TT	TT	URR	101504089	uncharacterized LOC101504089
SNP_41222_A_18602624	NC_021165.1	Ca_Kabuli_Chr06	18602624	GG	AA	AA	URR	101504715	uncharacterized LOC101504715
SNP_41223_A_18603043	NC_021165.1	Ca_Kabuli_Chr06	18603043	AA	GG	GG	URR	101504715	uncharacterized LOC101504715
SNP_41224_A_18603079	NC_021165.1	Ca_Kabuli_Chr06	18603079	AA	GG	GG	URR	101504715	uncharacterized LOC101504715

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41225_A_18603422	NC_021165.1	Ca_Kabuli_Chr06	18603422	CC	TT	TT	URR	101504715	uncharacterized LOC101504715
SNP_41226_A_18603461	NC_021165.1	Ca_Kabuli_Chr06	18603461	TT	CC	CC	URR	101504715	uncharacterized LOC101504715
SNP_41227_A_18617680	NC_021165.1	Ca_Kabuli_Chr06	18617680	TT	CC	CC	INTERGENIC		
SNP_41228_A_18622249	NC_021165.1	Ca_Kabuli_Chr06	18622249	GG	AA	AA	INTERGENIC		
SNP_41229_A_18622360	NC_021165.1	Ca_Kabuli_Chr06	18622360	AA	GG	GG	INTERGENIC		
SNP_41230_A_18699485	NC_021165.1	Ca_Kabuli_Chr06	18699485	AA	GG	GG	INTERGENIC		
SNP_41232_A_18739786	NC_021165.1	Ca_Kabuli_Chr06	18739786	TT	CC	CC	INTERGENIC		
SNP_41233_A_18790726	NC_021165.1	Ca_Kabuli_Chr06	18790726	AA	GG	GG	INTERGENIC		
SNP_41235_A_18795122	NC_021165.1	Ca_Kabuli_Chr06	18795122	TT	GG	GG	INTERGENIC		
SNP_41236_A_18795123	NC_021165.1	Ca_Kabuli_Chr06	18795123	TT	CC	CC	INTERGENIC		
SNP_41237_A_18859952	NC_021165.1	Ca_Kabuli_Chr06	18859952	GG	TT	TT	INTERGENIC		
SNP_41238_A_18881565	NC_021165.1	Ca_Kabuli_Chr06	18881565	TT	CC	CC	INTERGENIC		
SNP_41239_A_18897444	NC_021165.1	Ca_Kabuli_Chr06	18897444	TT	GG	GG	INTERGENIC		
SNP_41240_A_18897446	NC_021165.1	Ca_Kabuli_Chr06	18897446	TT	CC	CC	INTERGENIC		
SNP_41241_A_18931846	NC_021165.1	Ca_Kabuli_Chr06	18931846	AA	GG	GG	URR	101489326	uncharacterized LOC101489326
SNP_41243_A_19040488	NC_021165.1	Ca_Kabuli_Chr06	19040488	GG	AA	AA	INTERGENIC		
SNP_41245_A_19193218	NC_021165.1	Ca_Kabuli_Chr06	19193218	TT	CC	CC	URR	101500673	uncharacterized protein At4g19900
SNP_41246_A_19225720	NC_021165.1	Ca_Kabuli_Chr06	19225720	AA	TT	TT	INTRON	101502261	mitochondrial protein import protein ZIM17
SNP_41248_A_19532770	NC_021165.1	Ca_Kabuli_Chr06	19532770	AA	CC	CC	INTERGENIC		
SNP_41249_A_19582082	NC_021165.1	Ca_Kabuli_Chr06	19582082	GG	AA	AA	INTERGENIC		
SNP_41251_A_19650398	NC_021165.1	Ca_Kabuli_Chr06	19650398	AA	GG	GG	INTERGENIC		
SNP_41253_A_19721635	NC_021165.1	Ca_Kabuli_Chr06	19721635	CC	TT	TT	DRR	101493550	uncharacterized protein At3g61260

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41254_A_20493974	NC_021165.1	Ca_Kabuli_Chr06	20493974	CC	TT	TT	INTERGENIC		
SNP_41255_A_20494040	NC_021165.1	Ca_Kabuli_Chr06	20494040	AA	GG	GG	INTERGENIC		
SNP_41256_A_20494183	NC_021165.1	Ca_Kabuli_Chr06	20494183	GG	AA	AA	INTERGENIC		
SNP_41257_A_20494467	NC_021165.1	Ca_Kabuli_Chr06	20494467	TT	CC	CC	INTERGENIC		
SNP_41259_A_20779304	NC_021165.1	Ca_Kabuli_Chr06	20779304	AA	GG	GG	DRR	101502375	uncharacterized LOC101502375
SNP_41260_A_20779308	NC_021165.1	Ca_Kabuli_Chr06	20779308	AA	GG	GG	DRR	101502375	uncharacterized LOC101502375
SNP_41261_A_20826877	NC_021165.1	Ca_Kabuli_Chr06	20826877	CC	TT	TT	INTERGENIC		
SNP_41262_A_20851346	NC_021165.1	Ca_Kabuli_Chr06	20851346	GG	AA	AA	INTERGENIC		
SNP_41264_A_20851439	NC_021165.1	Ca_Kabuli_Chr06	20851439	TT	CC	CC	INTERGENIC		
SNP_41265_A_20851822	NC_021165.1	Ca_Kabuli_Chr06	20851822	CC	TT	TT	INTERGENIC		
SNP_41266_A_20851828	NC_021165.1	Ca_Kabuli_Chr06	20851828	CC	TT	TT	INTERGENIC		
SNP_41267_A_20851853	NC_021165.1	Ca_Kabuli_Chr06	20851853	CC	GG	GG	INTERGENIC		
SNP_41268_A_20851861	NC_021165.1	Ca_Kabuli_Chr06	20851861	AA	TT	TT	INTERGENIC		
SNP_41269_A_20851885	NC_021165.1	Ca_Kabuli_Chr06	20851885	AA	TT	TT	INTERGENIC		
SNP_41270_A_20852110	NC_021165.1	Ca_Kabuli_Chr06	20852110	AA	GG	GG	INTERGENIC		
SNP_41271_A_20852133	NC_021165.1	Ca_Kabuli_Chr06	20852133	CC	AA	AA	INTERGENIC		
SNP_41272_A_20852151	NC_021165.1	Ca_Kabuli_Chr06	20852151	CC	TT	TT	INTERGENIC		
SNP_41273_A_20852169	NC_021165.1	Ca_Kabuli_Chr06	20852169	GG	AA	AA	INTERGENIC		
SNP_41274_A_20852184	NC_021165.1	Ca_Kabuli_Chr06	20852184	GG	AA	AA	INTERGENIC		
SNP_41276_A_20852953	NC_021165.1	Ca_Kabuli_Chr06	20852953	AA	GG	GG	INTERGENIC		
SNP_41277_A_20852971	NC_021165.1	Ca_Kabuli_Chr06	20852971	TT	CC	CC	INTERGENIC		
SNP_41278_A_20853207	NC_021165.1	Ca_Kabuli_Chr06	20853207	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41279_A_20853216	NC_021165.1	Ca_Kabuli_Chr06	20853216	TT	CC	CC	INTERGENIC		
SNP_41280_A_20853232	NC_021165.1	Ca_Kabuli_Chr06	20853232	GG	AA	AA	INTERGENIC		
SNP_41281_A_20853388	NC_021165.1	Ca_Kabuli_Chr06	20853388	GG	TT	TT	INTERGENIC		
SNP_41282_A_20853447	NC_021165.1	Ca_Kabuli_Chr06	20853447	CC	TT	TT	INTERGENIC		
SNP_41283_A_20853449	NC_021165.1	Ca_Kabuli_Chr06	20853449	AA	GG	GG	INTERGENIC		
SNP_41284_A_20853620	NC_021165.1	Ca_Kabuli_Chr06	20853620	CC	TT	TT	INTERGENIC		
SNP_41286_A_20854414	NC_021165.1	Ca_Kabuli_Chr06	20854414	CC	GG	GG	INTERGENIC		
SNP_41287_A_20854415	NC_021165.1	Ca_Kabuli_Chr06	20854415	GG	TT	TT	INTERGENIC		
SNP_41288_A_20854443	NC_021165.1	Ca_Kabuli_Chr06	20854443	AA	GG	GG	INTERGENIC		
SNP_41289_A_20866647	NC_021165.1	Ca_Kabuli_Chr06	20866647	TT	CC	CC	NON_SYNONYMOUS_CODING	101502679	uncharacterized LOC101502679
SNP_41290_A_20866847	NC_021165.1	Ca_Kabuli_Chr06	20866847	AA	GG	GG	SYNONYMOUS_CODING	101502679	uncharacterized LOC101502679
SNP_41291_A_20867012	NC_021165.1	Ca_Kabuli_Chr06	20867012	AA	TT	TT	SYNONYMOUS_CODING	101502679	uncharacterized LOC101502679
SNP_41292_A_20867251	NC_021165.1	Ca_Kabuli_Chr06	20867251	CC	GG	GG	NON_SYNONYMOUS_CODING	101502679	uncharacterized LOC101502679
SNP_41293_A_20867836	NC_021165.1	Ca_Kabuli_Chr06	20867836	CC	AA	AA	URR	101502679	uncharacterized LOC101502679
SNP_41295_A_20989921	NC_021165.1	Ca_Kabuli_Chr06	20989921	GG	AA	AA	INTERGENIC		
SNP_41296_A_20989971	NC_021165.1	Ca_Kabuli_Chr06	20989971	AA	GG	GG	INTERGENIC		
SNP_41297_A_20990003	NC_021165.1	Ca_Kabuli_Chr06	20990003	AA	GG	GG	INTERGENIC		
SNP_41299_A_21021700	NC_021165.1	Ca_Kabuli_Chr06	21021700	AA	TT	TT	INTERGENIC		
SNP_41300_A_21021967	NC_021165.1	Ca_Kabuli_Chr06	21021967	AA	GG	GG	INTERGENIC		
SNP_41301_A_21022036	NC_021165.1	Ca_Kabuli_Chr06	21022036	TT	CC	CC	INTERGENIC		
SNP_41302_A_21035709	NC_021165.1	Ca_Kabuli_Chr06	21035709	CC	TT	TT	URR	101495900	uncharacterized LOC101495900
SNP_41303_A_21097132	NC_021165.1	Ca_Kabuli_Chr06	21097132	GG	AA	AA	URR	101498968	ras-related protein Rab11D-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41304_A_21122071	NC_021165.1	Ca_Kabuli_Chr06	21122071	GG	AA	AA	INTERGENIC		
SNP_41305_A_21138549	NC_021165.1	Ca_Kabuli_Chr06	21138549	TT	CC	CC	URR	101515688	Unknown function
SNP_41306_A_21139038	NC_021165.1	Ca_Kabuli_Chr06	21139038	CC	GG	GG	URR	101504397	Unknown function
SNP_41308_A_21141069	NC_021165.1	Ca_Kabuli_Chr06	21141069	AA	TT	TT	URR	101504716	uncharacterized LOC101504716
SNP_41309_A_21141490	NC_021165.1	Ca_Kabuli_Chr06	21141490	CC	TT	TT	URR	101504716	uncharacterized LOC101504716
SNP_41310_A_21141520	NC_021165.1	Ca_Kabuli_Chr06	21141520	CC	GG	GG	URR	101504716	uncharacterized LOC101504716
SNP_41311_A_21141532	NC_021165.1	Ca_Kabuli_Chr06	21141532	CC	TT	TT	URR	101504716	uncharacterized LOC101504716
SNP_41313_A_21141919	NC_021165.1	Ca_Kabuli_Chr06	21141919	CC	TT	TT	INTERGENIC		
SNP_41314_A_21146671	NC_021165.1	Ca_Kabuli_Chr06	21146671	GG	AA	AA	INTERGENIC		
SNP_41316_A_21147107	NC_021165.1	Ca_Kabuli_Chr06	21147107	GG	AA	AA	INTERGENIC		
SNP_41317_A_21147137	NC_021165.1	Ca_Kabuli_Chr06	21147137	TT	GG	GG	INTERGENIC		
SNP_41318_A_21147443	NC_021165.1	Ca_Kabuli_Chr06	21147443	CC	AA	AA	INTERGENIC		
SNP_41319_A_21154155	NC_021165.1	Ca_Kabuli_Chr06	21154155	GG	AA	AA	INTERGENIC		
SNP_41320_A_21154161	NC_021165.1	Ca_Kabuli_Chr06	21154161	CC	TT	TT	INTERGENIC		
SNP_41321_A_21154584	NC_021165.1	Ca_Kabuli_Chr06	21154584	TT	CC	CC	INTERGENIC		
SNP_41322_A_21154790	NC_021165.1	Ca_Kabuli_Chr06	21154790	CC	TT	TT	INTERGENIC		
SNP_41323_A_21259637	NC_021165.1	Ca_Kabuli_Chr06	21259637	AA	TT	TT	URR	101509104	uncharacterized LOC101509104
SNP_41324_A_21260555	NC_021165.1	Ca_Kabuli_Chr06	21260555	AA	TT	TT	URR	101509104	uncharacterized LOC101509104
SNP_41325_A_21317678	NC_021165.1	Ca_Kabuli_Chr06	21317678	CC	TT	TT	INTERGENIC		
SNP_41327_A_21353727	NC_021165.1	Ca_Kabuli_Chr06	21353727	TT	CC	CC	NON_SYNONYMOUS_CODING	101489445	serine/threonine-protein phosphatase 7 long form homolog
SNP_41328_A_21353758	NC_021165.1	Ca_Kabuli_Chr06	21353758	AA	GG	GG	NON_SYNONYMOUS_CODING	101489445	serine/threonine-protein phosphatase 7 long form homolog
SNP_41329_A_21384371	NC_021165.1	Ca_Kabuli_Chr06	21384371	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41330_A_21396475	NC_021165.1	Ca_Kabuli_Chr06	21396475	AA	TT	TT	URR	101513404	uncharacterized LOC101513404
SNP_41331_A_21396476	NC_021165.1	Ca_Kabuli_Chr06	21396476	AA	TT	TT	URR	101513404	uncharacterized LOC101513404
SNP_41332_A_21396477	NC_021165.1	Ca_Kabuli_Chr06	21396477	CC	TT	TT	URR	101513404	uncharacterized LOC101513404
SNP_41333_A_21397186	NC_021165.1	Ca_Kabuli_Chr06	21397186	TT	CC	CC	URR	101513404	uncharacterized LOC101513404
SNP_41334_A_21397201	NC_021165.1	Ca_Kabuli_Chr06	21397201	CC	TT	TT	URR	101513404	uncharacterized LOC101513404
SNP_41335_A_21397488	NC_021165.1	Ca_Kabuli_Chr06	21397488	AA	GG	GG	URR	101513404	uncharacterized LOC101513404
SNP_41336_A_21397493	NC_021165.1	Ca_Kabuli_Chr06	21397493	AA	GG	GG	URR	101513404	uncharacterized LOC101513404
SNP_41337_A_21397524	NC_021165.1	Ca_Kabuli_Chr06	21397524	TT	AA	AA	URR	101513404	uncharacterized LOC101513404
SNP_41338_A_21397589	NC_021165.1	Ca_Kabuli_Chr06	21397589	AA	TT	TT	URR	101513404	uncharacterized LOC101513404
SNP_41340_A_21399687	NC_021165.1	Ca_Kabuli_Chr06	21399687	TT	CC	CC	INTERGENIC		
SNP_41341_A_21400889	NC_021165.1	Ca_Kabuli_Chr06	21400889	CC	TT	TT	INTERGENIC		
SNP_41342_A_21400914	NC_021165.1	Ca_Kabuli_Chr06	21400914	CC	TT	TT	INTERGENIC		
SNP_41343_A_21401149	NC_021165.1	Ca_Kabuli_Chr06	21401149	TT	CC	CC	INTERGENIC		
SNP_41344_A_21401225	NC_021165.1	Ca_Kabuli_Chr06	21401225	GG	AA	AA	INTERGENIC		
SNP_41345_A_21401248	NC_021165.1	Ca_Kabuli_Chr06	21401248	AA	GG	GG	INTERGENIC		
SNP_41347_A_21401577	NC_021165.1	Ca_Kabuli_Chr06	21401577	GG	AA	AA	INTERGENIC		
SNP_41348_A_21401773	NC_021165.1	Ca_Kabuli_Chr06	21401773	TT	AA	AA	INTERGENIC		
SNP_41349_A_21401815	NC_021165.1	Ca_Kabuli_Chr06	21401815	GG	AA	AA	INTERGENIC		
SNP_41352_A_21409180	NC_021165.1	Ca_Kabuli_Chr06	21409180	GG	AA	AA	URR	101512863	uncharacterized LOC101512863
SNP_41353_A_21481389	NC_021165.1	Ca_Kabuli_Chr06	21481389	GG	TT	TT	INTERGENIC		
SNP_41354_A_21485207	NC_021165.1	Ca_Kabuli_Chr06	21485207	CC	TT	TT	INTERGENIC		
SNP_41355_A_21485249	NC_021165.1	Ca_Kabuli_Chr06	21485249	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41356_A_21485363	NC_021165.1	Ca_Kabuli_Chr06	21485363	GG	AA	AA	INTERGENIC			
SNP_41357_A_21485391	NC_021165.1	Ca_Kabuli_Chr06	21485391	AA	TT	TT	INTERGENIC			
SNP_41358_A_21485487	NC_021165.1	Ca_Kabuli_Chr06	21485487	CC	TT	TT	INTERGENIC			
SNP_41359_A_21485502	NC_021165.1	Ca_Kabuli_Chr06	21485502	TT	CC	CC	INTERGENIC			
SNP_41360_A_21485530	NC_021165.1	Ca_Kabuli_Chr06	21485530	AA	TT	TT	INTERGENIC			
SNP_41362_A_21485610	NC_021165.1	Ca_Kabuli_Chr06	21485610	GG	AA	AA	INTERGENIC			
SNP_41363_A_21485656	NC_021165.1	Ca_Kabuli_Chr06	21485656	TT	GG	GG	INTERGENIC			
SNP_41364_A_21522993	NC_021165.1	Ca_Kabuli_Chr06	21522993	GG	AA	AA	INTERGENIC			
SNP_41365_A_21523277	NC_021165.1	Ca_Kabuli_Chr06	21523277	GG	AA	AA	INTERGENIC			
SNP_41366_A_21523310	NC_021165.1	Ca_Kabuli_Chr06	21523310	GG	AA	AA	INTERGENIC			
SNP_41367_A_21523337	NC_021165.1	Ca_Kabuli_Chr06	21523337	GG	AA	AA	INTERGENIC			
SNP_41368_A_21523379	NC_021165.1	Ca_Kabuli_Chr06	21523379	AA	TT	TT	INTERGENIC			
SNP_41369_A_21523409	NC_021165.1	Ca_Kabuli_Chr06	21523409	TT	CC	CC	INTERGENIC			
SNP_41370_A_21523772	NC_021165.1	Ca_Kabuli_Chr06	21523772	TT	CC	CC	INTERGENIC			
SNP_41371_A_21523784	NC_021165.1	Ca_Kabuli_Chr06	21523784	TT	CC	CC	INTERGENIC			
SNP_41372_A_21523982	NC_021165.1	Ca_Kabuli_Chr06	21523982	GG	TT	TT	INTERGENIC			
SNP_41373_A_21523984	NC_021165.1	Ca_Kabuli_Chr06	21523984	GG	AA	AA	INTERGENIC			
SNP_41375_A_21524024	NC_021165.1	Ca_Kabuli_Chr06	21524024	AA	CC	CC	INTERGENIC			
SNP_41376_A_21524058	NC_021165.1	Ca_Kabuli_Chr06	21524058	AA	GG	GG	INTERGENIC			
SNP_41377_A_21524070	NC_021165.1	Ca_Kabuli_Chr06	21524070	GG	AA	AA	INTERGENIC			
SNP_41378_A_21524108	NC_021165.1	Ca_Kabuli_Chr06	21524108	TT	AA	AA	INTERGENIC			
SNP_41379_A_21524134	NC_021165.1	Ca_Kabuli_Chr06	21524134	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41380_A_21524138	NC_021165.1	Ca_Kabuli_Chr06	21524138	CC	TT	TT	INTERGENIC		
SNP_41381_A_21524184	NC_021165.1	Ca_Kabuli_Chr06	21524184	AA	GG	GG	INTERGENIC		
SNP_41382_A_21524187	NC_021165.1	Ca_Kabuli_Chr06	21524187	GG	AA	AA	INTERGENIC		
SNP_41383_A_21524201	NC_021165.1	Ca_Kabuli_Chr06	21524201	AA	GG	GG	INTERGENIC		
SNP_41384_A_21530730	NC_021165.1	Ca_Kabuli_Chr06	21530730	AA	CC	CC	INTERGENIC		
SNP_41385_A_21530732	NC_021165.1	Ca_Kabuli_Chr06	21530732	CC	TT	TT	INTERGENIC		
SNP_41386_A_21530786	NC_021165.1	Ca_Kabuli_Chr06	21530786	CC	TT	TT	INTERGENIC		
SNP_41387_A_21572638	NC_021165.1	Ca_Kabuli_Chr06	21572638	CC	AA	AA	INTRON	101493552	putative DEAD-box ATP-dependent RNA helicase 29
SNP_41389_A_21666957	NC_021165.1	Ca_Kabuli_Chr06	21666957	GG	TT	TT	DRR	101410606	transfer RNA glycine (anticodon UCC)
SNP_41390_A_21709487	NC_021165.1	Ca_Kabuli_Chr06	21709487	GG	CC	CC	INTERGENIC		
SNP_41391_A_21822449	NC_021165.1	Ca_Kabuli_Chr06	21822449	TT	CC	CC	INTERGENIC		
SNP_41392_A_21822458	NC_021165.1	Ca_Kabuli_Chr06	21822458	TT	GG	GG	INTERGENIC		
SNP_41393_A_21822597	NC_021165.1	Ca_Kabuli_Chr06	21822597	AA	GG	GG	INTERGENIC		
SNP_41394_A_21822824	NC_021165.1	Ca_Kabuli_Chr06	21822824	GG	TT	TT	INTERGENIC		
SNP_41395_A_21822895	NC_021165.1	Ca_Kabuli_Chr06	21822895	AA	GG	GG	INTERGENIC		
SNP_41396_A_21822935	NC_021165.1	Ca_Kabuli_Chr06	21822935	TT	GG	GG	INTERGENIC		
SNP_41397_A_21822970	NC_021165.1	Ca_Kabuli_Chr06	21822970	TT	GG	GG	INTERGENIC		
SNP_41398_A_21822978	NC_021165.1	Ca_Kabuli_Chr06	21822978	AA	GG	GG	INTERGENIC		
SNP_41399_A_21822991	NC_021165.1	Ca_Kabuli_Chr06	21822991	TT	CC	CC	INTERGENIC		
SNP_41400_A_21952603	NC_021165.1	Ca_Kabuli_Chr06	21952603	TT	GG	GG	INTERGENIC		
SNP_41401_A_21952606	NC_021165.1	Ca_Kabuli_Chr06	21952606	TT	GG	GG	INTERGENIC		
SNP_41402_A_21989714	NC_021165.1	Ca_Kabuli_Chr06	21989714	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41403_A_22065882	NC_021165.1	Ca_Kabuli_Chr06	22065882	AA	GG	GG	URR	101511362	probable fructokinase-5
SNP_41404_A_22067988	NC_021165.1	Ca_Kabuli_Chr06	22067988	CC	AA	AA	DRR	101511690	uncharacterized LOC101511690
SNP_41405_A_22099385	NC_021165.1	Ca_Kabuli_Chr06	22099385	TT	CC	CC	INTERGENIC		
SNP_41407_A_22099758	NC_021165.1	Ca_Kabuli_Chr06	22099758	TT	CC	CC	INTERGENIC		
SNP_41408_A_22248763	NC_021165.1	Ca_Kabuli_Chr06	22248763	TT	CC	CC	DRR	101491375	scarecrow-like protein 4
SNP_41409_A_22253430	NC_021165.1	Ca_Kabuli_Chr06	22253430	GG	AA	AA	URR	101491375	scarecrow-like protein 4
SNP_41410_A_22320396	NC_021165.1	Ca_Kabuli_Chr06	22320396	TT	CC	CC	INTERGENIC		
SNP_41411_A_22320417	NC_021165.1	Ca_Kabuli_Chr06	22320417	CC	TT	TT	INTERGENIC		
SNP_41412_A_22320565	NC_021165.1	Ca_Kabuli_Chr06	22320565	AA	TT	TT	INTERGENIC		
SNP_41413_A_22320802	NC_021165.1	Ca_Kabuli_Chr06	22320802	AA	GG	GG	INTERGENIC		
SNP_41414_A_22320807	NC_021165.1	Ca_Kabuli_Chr06	22320807	CC	TT	TT	INTERGENIC		
SNP_41415_A_22320823	NC_021165.1	Ca_Kabuli_Chr06	22320823	AA	GG	GG	INTERGENIC		
SNP_41416_A_22322638	NC_021165.1	Ca_Kabuli_Chr06	22322638	GG	AA	AA	INTERGENIC		
SNP_41417_A_22322954	NC_021165.1	Ca_Kabuli_Chr06	22322954	TT	CC	CC	INTERGENIC		
SNP_41418_A_22391741	NC_021165.1	Ca_Kabuli_Chr06	22391741	TT	AA	AA	URR	101495902	isoflavone 2'-hydroxylase-like
SNP_41419_A_22419041	NC_021165.1	Ca_Kabuli_Chr06	22419041	GG	AA	AA	INTERGENIC		
SNP_41420_A_22419073	NC_021165.1	Ca_Kabuli_Chr06	22419073	AA	GG	GG	INTERGENIC		
SNP_41421_A_22419483	NC_021165.1	Ca_Kabuli_Chr06	22419483	AA	GG	GG	INTERGENIC		
SNP_41422_A_22464326	NC_021165.1	Ca_Kabuli_Chr06	22464326	CC	TT	TT	INTERGENIC		
SNP_41423_A_22464621	NC_021165.1	Ca_Kabuli_Chr06	22464621	CC	TT	TT	INTERGENIC		
SNP_41424_A_22464661	NC_021165.1	Ca_Kabuli_Chr06	22464661	CC	TT	TT	INTERGENIC		
SNP_41425_A_22465088	NC_021165.1	Ca_Kabuli_Chr06	22465088	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41426_A_22465237	NC_021165.1	Ca_Kabuli_Chr06	22465237	GG	AA	AA	INTERGENIC			
SNP_41427_A_22487162	NC_021165.1	Ca_Kabuli_Chr06	22487162	GG	AA	AA	INTERGENIC			
SNP_41428_A_22859127	NC_021165.1	Ca_Kabuli_Chr06	22859127	CC	TT	TT	INTERGENIC			
SNP_41429_A_22859442	NC_021165.1	Ca_Kabuli_Chr06	22859442	CC	TT	TT	INTERGENIC			
SNP_41431_A_22956965	NC_021165.1	Ca_Kabuli_Chr06	22956965	AA	GG	GG	INTERGENIC			
SNP_41432_A_22956966	NC_021165.1	Ca_Kabuli_Chr06	22956966	GG	AA	AA	INTERGENIC			
SNP_41433_A_22992075	NC_021165.1	Ca_Kabuli_Chr06	22992075	CC	TT	TT	INTERGENIC			
SNP_41434_A_23039459	NC_021165.1	Ca_Kabuli_Chr06	23039459	CC	TT	TT	INTERGENIC			
SNP_41435_A_23039570	NC_021165.1	Ca_Kabuli_Chr06	23039570	TT	CC	CC	INTERGENIC			
SNP_41436_A_23039901	NC_021165.1	Ca_Kabuli_Chr06	23039901	TT	AA	AA	INTERGENIC			
SNP_41437_A_23039956	NC_021165.1	Ca_Kabuli_Chr06	23039956	GG	CC	CC	INTERGENIC			
SNP_41438_A_23040044	NC_021165.1	Ca_Kabuli_Chr06	23040044	TT	AA	AA	INTERGENIC			
SNP_41439_A_23040091	NC_021165.1	Ca_Kabuli_Chr06	23040091	TT	CC	CC	INTERGENIC			
SNP_41440_A_23040147	NC_021165.1	Ca_Kabuli_Chr06	23040147	TT	AA	AA	INTERGENIC			
SNP_41441_A_23040528	NC_021165.1	Ca_Kabuli_Chr06	23040528	AA	TT	TT	INTERGENIC			
SNP_41442_A_23040553	NC_021165.1	Ca_Kabuli_Chr06	23040553	TT	CC	CC	INTERGENIC			
SNP_41443_A_23042723	NC_021165.1	Ca_Kabuli_Chr06	23042723	TT	CC	CC	URR	101498520	glucan endo-1,3-beta-glucosidase-like	
SNP_41444_A_23042738	NC_021165.1	Ca_Kabuli_Chr06	23042738	GG	AA	AA	URR	101498520	glucan endo-1,3-beta-glucosidase-like	
SNP_41447_A_23042883	NC_021165.1	Ca_Kabuli_Chr06	23042883	TT	AA	AA	URR	101498520	glucan endo-1,3-beta-glucosidase-like	
SNP_41448_A_23042940	NC_021165.1	Ca_Kabuli_Chr06	23042940	CC	TT	TT	URR	101498520	glucan endo-1,3-beta-glucosidase-like	
SNP_41449_A_23042946	NC_021165.1	Ca_Kabuli_Chr06	23042946	GG	TT	TT	URR	101498520	glucan endo-1,3-beta-glucosidase-like	
SNP_41451_A_23064173	NC_021165.1	Ca_Kabuli_Chr06	23064173	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41453_A_23064442	NC_021165.1	Ca_Kabuli_Chr06	23064442	AA	GG	GG	INTERGENIC		
SNP_41454_A_23064629	NC_021165.1	Ca_Kabuli_Chr06	23064629	AA	GG	GG	INTERGENIC		
SNP_41455_A_23064737	NC_021165.1	Ca_Kabuli_Chr06	23064737	CC	TT	TT	INTERGENIC		
SNP_41457_A_23064793	NC_021165.1	Ca_Kabuli_Chr06	23064793	GG	AA	AA	INTERGENIC		
SNP_41458_A_23064885	NC_021165.1	Ca_Kabuli_Chr06	23064885	CC	TT	TT	INTERGENIC		
SNP_41459_A_23064975	NC_021165.1	Ca_Kabuli_Chr06	23064975	GG	AA	AA	INTERGENIC		
SNP_41460_A_23065124	NC_021165.1	Ca_Kabuli_Chr06	23065124	GG	CC	CC	INTERGENIC		
SNP_41461_A_23065568	NC_021165.1	Ca_Kabuli_Chr06	23065568	GG	TT	TT	INTERGENIC		
SNP_41462_A_23065600	NC_021165.1	Ca_Kabuli_Chr06	23065600	CC	TT	TT	INTERGENIC		
SNP_41463_A_23071023	NC_021165.1	Ca_Kabuli_Chr06	23071023	TT	AA	AA	URR	101499186	glucan endo-1,3-beta-glucosidase-like
SNP_41464_A_23071095	NC_021165.1	Ca_Kabuli_Chr06	23071095	AA	GG	GG	INTRON	101499507	glucan endo-1,3-beta-glucosidase-like
SNP_41465_A_23071162	NC_021165.1	Ca_Kabuli_Chr06	23071162	AA	GG	GG	INTRON	101499507	glucan endo-1,3-beta-glucosidase-like
SNP_41466_A_23071228	NC_021165.1	Ca_Kabuli_Chr06	23071228	GG	AA	AA	INTRON	101499507	glucan endo-1,3-beta-glucosidase-like
SNP_41467_A_23071245	NC_021165.1	Ca_Kabuli_Chr06	23071245	TT	AA	AA	INTRON	101499507	glucan endo-1,3-beta-glucosidase-like
SNP_41468_A_23071397	NC_021165.1	Ca_Kabuli_Chr06	23071397	CC	TT	TT	INTRON	101499507	glucan endo-1,3-beta-glucosidase-like
SNP_41469_A_23071621	NC_021165.1	Ca_Kabuli_Chr06	23071621	TT	AA	AA	INTERGENIC		
SNP_41470_A_23071801	NC_021165.1	Ca_Kabuli_Chr06	23071801	AA	TT	TT	INTERGENIC		
SNP_41471_A_23071808	NC_021165.1	Ca_Kabuli_Chr06	23071808	GG	TT	TT	INTERGENIC		
SNP_41472_A_23071819	NC_021165.1	Ca_Kabuli_Chr06	23071819	CC	AA	AA	INTERGENIC		
SNP_41473_A_23071863	NC_021165.1	Ca_Kabuli_Chr06	23071863	AA	GG	GG	INTERGENIC		
SNP_41474_A_23072245	NC_021165.1	Ca_Kabuli_Chr06	23072245	CC	TT	TT	INTERGENIC		
SNP_41475_A_23076895	NC_021165.1	Ca_Kabuli_Chr06	23076895	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41476_A_23076995	NC_021165.1	Ca_Kabuli_Chr06	23076995	GG	AA	AA	INTERGENIC		
SNP_41477_A_23077170	NC_021165.1	Ca_Kabuli_Chr06	23077170	GG	AA	AA	INTERGENIC		
SNP_41478_A_23077642	NC_021165.1	Ca_Kabuli_Chr06	23077642	AA	GG	GG	INTERGENIC		
SNP_41479_A_23077684	NC_021165.1	Ca_Kabuli_Chr06	23077684	AA	GG	GG	INTERGENIC		
SNP_41480_A_23077692	NC_021165.1	Ca_Kabuli_Chr06	23077692	GG	TT	TT	INTERGENIC		
SNP_41481_A_23077713	NC_021165.1	Ca_Kabuli_Chr06	23077713	TT	CC	CC	INTERGENIC		
SNP_41482_A_23077849	NC_021165.1	Ca_Kabuli_Chr06	23077849	AA	GG	GG	INTERGENIC		
SNP_41483_A_23077867	NC_021165.1	Ca_Kabuli_Chr06	23077867	CC	TT	TT	INTERGENIC		
SNP_41484_A_23078087	NC_021165.1	Ca_Kabuli_Chr06	23078087	TT	GG	GG	INTERGENIC		
SNP_41485_A_23078377	NC_021165.1	Ca_Kabuli_Chr06	23078377	CC	TT	TT	INTERGENIC		
SNP_41486_A_23078705	NC_021165.1	Ca_Kabuli_Chr06	23078705	GG	TT	TT	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41487_A_23078794	NC_021165.1	Ca_Kabuli_Chr06	23078794	CC	TT	TT	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41488_A_23078804	NC_021165.1	Ca_Kabuli_Chr06	23078804	GG	AA	AA	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41489_A_23078847	NC_021165.1	Ca_Kabuli_Chr06	23078847	TT	CC	CC	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41490_A_23078963	NC_021165.1	Ca_Kabuli_Chr06	23078963	CC	TT	TT	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41491_A_23078967	NC_021165.1	Ca_Kabuli_Chr06	23078967	TT	CC	CC	URR	101499808	glucan endo-1,3-beta-glucosidase-like
SNP_41492_A_23098598	NC_021165.1	Ca_Kabuli_Chr06	23098598	AA	TT	TT	URR	101500460	glucan endo-1,3-beta-glucosidase-like
SNP_41493_A_23107526	NC_021165.1	Ca_Kabuli_Chr06	23107526	AA	TT	TT	INTERGENIC		
SNP_41495_A_23155135	NC_021165.1	Ca_Kabuli_Chr06	23155135	TT	CC	CC	URR	101511053	ubiquitin-conjugating enzyme E2 20
SNP_41496_A_23164107	NC_021165.1	Ca_Kabuli_Chr06	23164107	TT	CC	CC	INTRON	101501088	uncharacterized LOC101501088
SNP_41497_A_23164109	NC_021165.1	Ca_Kabuli_Chr06	23164109	TT	GG	GG	INTRON	101501088	uncharacterized LOC101501088
SNP_41500_A_23232239	NC_021165.1	Ca_Kabuli_Chr06	23232239	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41502_A_23453761	NC_021165.1	Ca_Kabuli_Chr06	23453761	TT	AA	AA	INTERGENIC			
SNP_41503_A_23453768	NC_021165.1	Ca_Kabuli_Chr06	23453768	TT	CC	CC	INTERGENIC			
SNP_41504_A_23453774	NC_021165.1	Ca_Kabuli_Chr06	23453774	CC	AA	AA	INTERGENIC			
SNP_41505_A_23530559	NC_021165.1	Ca_Kabuli_Chr06	23530559	CC	TT	TT	INTERGENIC			
SNP_41507_A_23653074	NC_021165.1	Ca_Kabuli_Chr06	23653074	GG	TT	TT	INTERGENIC			
SNP_41508_A_23686972	NC_021165.1	Ca_Kabuli_Chr06	23686972	AA	CC	CC	DRR	101502047	nucleolin 2	
SNP_41509_A_23689664	NC_021165.1	Ca_Kabuli_Chr06	23689664	TT	AA	AA	INTRON	101502047	nucleolin 2	
SNP_41510_A_23719866	NC_021165.1	Ca_Kabuli_Chr06	23719866	AA	GG	GG	INTRON	101502895	MAP3K epsilon protein kinase 1-like	
SNP_41512_A_23755266	NC_021165.1	Ca_Kabuli_Chr06	23755266	CC	TT	TT	INTERGENIC			
SNP_41514_A_23755347	NC_021165.1	Ca_Kabuli_Chr06	23755347	AA	GG	GG	INTERGENIC			
SNP_41515_A_23755356	NC_021165.1	Ca_Kabuli_Chr06	23755356	TT	CC	CC	INTERGENIC			
SNP_41516_A_23755379	NC_021165.1	Ca_Kabuli_Chr06	23755379	TT	CC	CC	INTERGENIC			
SNP_41517_A_23755414	NC_021165.1	Ca_Kabuli_Chr06	23755414	TT	CC	CC	INTERGENIC			
SNP_41518_A_23755600	NC_021165.1	Ca_Kabuli_Chr06	23755600	TT	CC	CC	INTERGENIC			
SNP_41519_A_23815029	NC_021165.1	Ca_Kabuli_Chr06	23815029	GG	AA	AA	URR	101504191	alanine-tRNA ligase	
SNP_41521_A_23873973	NC_021165.1	Ca_Kabuli_Chr06	23873973	GG	AA	AA	URR	101504620	anamorsin homolog	
SNP_41522_A_23925026	NC_021165.1	Ca_Kabuli_Chr06	23925026	AA	GG	GG	INTERGENIC			
SNP_41523_A_23961178	NC_021165.1	Ca_Kabuli_Chr06	23961178	CC	TT	TT	URR	101508891	60S ribosomal protein L7a-like	
SNP_41524_A_24027303	NC_021165.1	Ca_Kabuli_Chr06	24027303	GG	AA	AA	INTERGENIC			
SNP_41526_A_24125893	NC_021165.1	Ca_Kabuli_Chr06	24125893	GG	AA	AA	INTERGENIC			
SNP_41528_A_24126356	NC_021165.1	Ca_Kabuli_Chr06	24126356	GG	TT	TT	INTERGENIC			
SNP_41529_A_24126395	NC_021165.1	Ca_Kabuli_Chr06	24126395	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41530_A_24126951	NC_021165.1	Ca_Kabuli_Chr06	24126951	CC	AA	AA	INTERGENIC			
SNP_41531_A_24127055	NC_021165.1	Ca_Kabuli_Chr06	24127055	AA	GG	GG	INTERGENIC			
SNP_41532_A_24127058	NC_021165.1	Ca_Kabuli_Chr06	24127058	AA	GG	GG	INTERGENIC			
SNP_41533_A_24127335	NC_021165.1	Ca_Kabuli_Chr06	24127335	AA	TT	TT	INTERGENIC			
SNP_41534_A_24127824	NC_021165.1	Ca_Kabuli_Chr06	24127824	TT	CC	CC	INTERGENIC			
SNP_41535_A_24136237	NC_021165.1	Ca_Kabuli_Chr06	24136237	TT	AA	AA	INTERGENIC			
SNP_41536_A_24136245	NC_021165.1	Ca_Kabuli_Chr06	24136245	TT	CC	CC	INTERGENIC			
SNP_41537_A_24145276	NC_021165.1	Ca_Kabuli_Chr06	24145276	AA	TT	TT	INTERGENIC			
SNP_41538_A_24149380	NC_021165.1	Ca_Kabuli_Chr06	24149380	GG	AA	AA	URR	101489327	dirigent protein 23-like	
SNP_41539_A_24181645	NC_021165.1	Ca_Kabuli_Chr06	24181645	GG	AA	AA	INTERGENIC			
SNP_41541_A_24240719	NC_021165.1	Ca_Kabuli_Chr06	24240719	TT	CC	CC	INTERGENIC			
SNP_41542_A_24240740	NC_021165.1	Ca_Kabuli_Chr06	24240740	TT	CC	CC	INTERGENIC			
SNP_41543_A_24240764	NC_021165.1	Ca_Kabuli_Chr06	24240764	AA	GG	GG	INTERGENIC			
SNP_41544_A_24240810	NC_021165.1	Ca_Kabuli_Chr06	24240810	AA	CC	CC	INTERGENIC			
SNP_41545_A_24240841	NC_021165.1	Ca_Kabuli_Chr06	24240841	GG	AA	AA	INTERGENIC			
SNP_41546_A_24240852	NC_021165.1	Ca_Kabuli_Chr06	24240852	TT	GG	GG	INTERGENIC			
SNP_41547_A_24240863	NC_021165.1	Ca_Kabuli_Chr06	24240863	AA	GG	GG	INTERGENIC			
SNP_41548_A_24241069	NC_021165.1	Ca_Kabuli_Chr06	24241069	CC	TT	TT	INTERGENIC			
SNP_41549_A_24241166	NC_021165.1	Ca_Kabuli_Chr06	24241166	AA	TT	TT	INTERGENIC			
SNP_41550_A_24241211	NC_021165.1	Ca_Kabuli_Chr06	24241211	AA	TT	TT	INTERGENIC			
SNP_41551_A_24241463	NC_021165.1	Ca_Kabuli_Chr06	24241463	CC	AA	AA	INTERGENIC			
SNP_41552_A_24241493	NC_021165.1	Ca_Kabuli_Chr06	24241493	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41553_A_24241503	NC_021165.1	Ca_Kabuli_Chr06	24241503	AA	GG	GG	INTERGENIC			
SNP_41554_A_24241780	NC_021165.1	Ca_Kabuli_Chr06	24241780	GG	AA	AA	INTERGENIC			
SNP_41555_A_24242013	NC_021165.1	Ca_Kabuli_Chr06	24242013	AA	TT	TT	INTERGENIC			
SNP_41557_A_24363322	NC_021165.1	Ca_Kabuli_Chr06	24363322	CC	TT	TT	INTERGENIC			
SNP_41558_A_24394339	NC_021165.1	Ca_Kabuli_Chr06	24394339	GG	TT	TT	INTERGENIC			
SNP_41560_A_24542042	NC_021165.1	Ca_Kabuli_Chr06	24542042	GG	AA	AA	INTERGENIC			
SNP_41563_A_24673212	NC_021165.1	Ca_Kabuli_Chr06	24673212	GG	AA	AA	INTERGENIC			
SNP_41565_A_24744265	NC_021165.1	Ca_Kabuli_Chr06	24744265	TT	CC	CC	INTERGENIC			
SNP_41566_A_24770482	NC_021165.1	Ca_Kabuli_Chr06	24770482	AA	GG	GG	INTERGENIC			
SNP_41567_A_24770484	NC_021165.1	Ca_Kabuli_Chr06	24770484	GG	AA	AA	INTERGENIC			
SNP_41568_A_24770513	NC_021165.1	Ca_Kabuli_Chr06	24770513	CC	TT	TT	INTERGENIC			
SNP_41569_A_24770543	NC_021165.1	Ca_Kabuli_Chr06	24770543	TT	CC	CC	INTERGENIC			
SNP_41570_A_24770587	NC_021165.1	Ca_Kabuli_Chr06	24770587	TT	CC	CC	INTERGENIC			
SNP_41571_A_24770598	NC_021165.1	Ca_Kabuli_Chr06	24770598	GG	AA	AA	INTERGENIC			
SNP_41572_A_24770755	NC_021165.1	Ca_Kabuli_Chr06	24770755	TT	CC	CC	INTERGENIC			
SNP_41573_A_24770883	NC_021165.1	Ca_Kabuli_Chr06	24770883	AA	GG	GG	INTERGENIC			
SNP_41574_A_24770911	NC_021165.1	Ca_Kabuli_Chr06	24770911	TT	AA	AA	INTERGENIC			
SNP_41575_A_24783300	NC_021165.1	Ca_Kabuli_Chr06	24783300	TT	CC	CC	INTERGENIC			
SNP_41576_A_24811001	NC_021165.1	Ca_Kabuli_Chr06	24811001	TT	AA	AA	INTERGENIC			
SNP_41577_A_24856065	NC_021165.1	Ca_Kabuli_Chr06	24856065	GG	TT	TT	INTERGENIC			
SNP_41578_A_24856083	NC_021165.1	Ca_Kabuli_Chr06	24856083	AA	TT	TT	INTERGENIC			
SNP_41579_A_24857343	NC_021165.1	Ca_Kabuli_Chr06	24857343	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41580_A_24857925	NC_021165.1	Ca_Kabuli_Chr06	24857925	TT	GG	GG	INTERGENIC		
SNP_41581_A_24857980	NC_021165.1	Ca_Kabuli_Chr06	24857980	GG	AA	AA	INTERGENIC		
SNP_41582_A_24903405	NC_021165.1	Ca_Kabuli_Chr06	24903405	TT	AA	AA	INTERGENIC		
SNP_41583_A_24904311	NC_021165.1	Ca_Kabuli_Chr06	24904311	AA	GG	GG	INTERGENIC		
SNP_41584_A_24904803	NC_021165.1	Ca_Kabuli_Chr06	24904803	CC	TT	TT	INTERGENIC		
SNP_41585_A_24904806	NC_021165.1	Ca_Kabuli_Chr06	24904806	AA	GG	GG	INTERGENIC		
SNP_41586_A_24905521	NC_021165.1	Ca_Kabuli_Chr06	24905521	TT	CC	CC	INTERGENIC		
SNP_41587_A_24918980	NC_021165.1	Ca_Kabuli_Chr06	24918980	AA	GG	GG	INTERGENIC		
SNP_41588_A_24948287	NC_021165.1	Ca_Kabuli_Chr06	24948287	GG	AA	AA	URR	101515357	Unknown function
SNP_41589_A_24948288	NC_021165.1	Ca_Kabuli_Chr06	24948288	TT	AA	AA	URR	101515357	Unknown function
SNP_41590_A_24958945	NC_021165.1	Ca_Kabuli_Chr06	24958945	CC	TT	TT	URR	101488449	Unknown function
SNP_41591_A_24962230	NC_021165.1	Ca_Kabuli_Chr06	24962230	TT	CC	CC	INTRON	101488784	zinc finger MYM-type protein 1-like
SNP_41592_A_24981240	NC_021165.1	Ca_Kabuli_Chr06	24981240	TT	CC	CC	URR	101489112	uncharacterized LOC101489112
SNP_41593_A_24981309	NC_021165.1	Ca_Kabuli_Chr06	24981309	GG	TT	TT	URR	101489112	uncharacterized LOC101489112
SNP_41594_A_24989058	NC_021165.1	Ca_Kabuli_Chr06	24989058	GG	AA	AA	INTERGENIC		
SNP_41595_A_24997390	NC_021165.1	Ca_Kabuli_Chr06	24997390	GG	AA	AA	INTERGENIC		
SNP_41597_A_25004963	NC_021165.1	Ca_Kabuli_Chr06	25004963	TT	GG	GG	INTERGENIC		
SNP_41598_A_25014259	NC_021165.1	Ca_Kabuli_Chr06	25014259	GG	AA	AA	INTERGENIC		
SNP_41599_A_25066984	NC_021165.1	Ca_Kabuli_Chr06	25066984	TT	CC	CC	INTERGENIC		
SNP_41600_A_25069187	NC_021165.1	Ca_Kabuli_Chr06	25069187	TT	CC	CC	INTERGENIC		
SNP_41601_A_25069583	NC_021165.1	Ca_Kabuli_Chr06	25069583	AA	CC	CC	INTERGENIC		
SNP_41602_A_25131149	NC_021165.1	Ca_Kabuli_Chr06	25131149	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41603_A_25162778	NC_021165.1	Ca_Kabuli_Chr06	25162778	CC	TT	TT	INTERGENIC		
SNP_41604_A_25162792	NC_021165.1	Ca_Kabuli_Chr06	25162792	TT	CC	CC	INTERGENIC		
SNP_41605_A_25248786	NC_021165.1	Ca_Kabuli_Chr06	25248786	CC	TT	TT	URR	101492005	Unknown function
SNP_41606_A_25272033	NC_021165.1	Ca_Kabuli_Chr06	25272033	AA	GG	GG	INTERGENIC		
SNP_41607_A_25297977	NC_021165.1	Ca_Kabuli_Chr06	25297977	AA	GG	GG	INTERGENIC		
SNP_41608_A_25299693	NC_021165.1	Ca_Kabuli_Chr06	25299693	CC	TT	TT	INTERGENIC		
SNP_41609_A_25300226	NC_021165.1	Ca_Kabuli_Chr06	25300226	TT	AA	AA	INTERGENIC		
SNP_41610_A_25300230	NC_021165.1	Ca_Kabuli_Chr06	25300230	TT	CC	CC	INTERGENIC		
SNP_41611_A_25300272	NC_021165.1	Ca_Kabuli_Chr06	25300272	TT	CC	CC	INTERGENIC		
SNP_41612_A_25300288	NC_021165.1	Ca_Kabuli_Chr06	25300288	TT	GG	GG	INTERGENIC		
SNP_41613_A_25300327	NC_021165.1	Ca_Kabuli_Chr06	25300327	CC	TT	TT	INTERGENIC		
SNP_41614_A_25300549	NC_021165.1	Ca_Kabuli_Chr06	25300549	AA	TT	TT	INTERGENIC		
SNP_41615_A_25300574	NC_021165.1	Ca_Kabuli_Chr06	25300574	AA	GG	GG	INTERGENIC		
SNP_41616_A_25302573	NC_021165.1	Ca_Kabuli_Chr06	25302573	TT	CC	CC	INTERGENIC		
SNP_41617_A_25302574	NC_021165.1	Ca_Kabuli_Chr06	25302574	GG	AA	AA	INTERGENIC		
SNP_41618_A_25302605	NC_021165.1	Ca_Kabuli_Chr06	25302605	AA	GG	GG	INTERGENIC		
SNP_41619_A_25302619	NC_021165.1	Ca_Kabuli_Chr06	25302619	AA	CC	CC	INTERGENIC		
SNP_41620_A_25302625	NC_021165.1	Ca_Kabuli_Chr06	25302625	AA	GG	GG	INTERGENIC		
SNP_41621_A_25314476	NC_021165.1	Ca_Kabuli_Chr06	25314476	GG	AA	AA	INTERGENIC		
SNP_41622_A_25314551	NC_021165.1	Ca_Kabuli_Chr06	25314551	GG	TT	TT	INTERGENIC		
SNP_41623_A_25314572	NC_021165.1	Ca_Kabuli_Chr06	25314572	GG	TT	TT	INTERGENIC		
SNP_41624_A_25314762	NC_021165.1	Ca_Kabuli_Chr06	25314762	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41625_A_25314874	NC_021165.1	Ca_Kabuli_Chr06	25314874	AA	TT	TT	INTERGENIC			
SNP_41626_A_25314890	NC_021165.1	Ca_Kabuli_Chr06	25314890	AA	GG	GG	INTERGENIC			
SNP_41627_A_25314926	NC_021165.1	Ca_Kabuli_Chr06	25314926	GG	AA	AA	INTERGENIC			
SNP_41628_A_25314931	NC_021165.1	Ca_Kabuli_Chr06	25314931	TT	GG	GG	INTERGENIC			
SNP_41629_A_25314937	NC_021165.1	Ca_Kabuli_Chr06	25314937	GG	AA	AA	INTERGENIC			
SNP_41630_A_25314957	NC_021165.1	Ca_Kabuli_Chr06	25314957	CC	AA	AA	INTERGENIC			
SNP_41631_A_25314959	NC_021165.1	Ca_Kabuli_Chr06	25314959	AA	GG	GG	INTERGENIC			
SNP_41632_A_25316940	NC_021165.1	Ca_Kabuli_Chr06	25316940	CC	TT	TT	INTERGENIC			
SNP_41633_A_25321177	NC_021165.1	Ca_Kabuli_Chr06	25321177	GG	TT	TT	INTERGENIC			
SNP_41634_A_25324584	NC_021165.1	Ca_Kabuli_Chr06	25324584	CC	AA	AA	INTERGENIC			
SNP_41635_A_25324979	NC_021165.1	Ca_Kabuli_Chr06	25324979	TT	GG	GG	INTERGENIC			
SNP_41636_A_25325329	NC_021165.1	Ca_Kabuli_Chr06	25325329	TT	CC	CC	INTERGENIC			
SNP_41637_A_25325367	NC_021165.1	Ca_Kabuli_Chr06	25325367	AA	TT	TT	INTERGENIC			
SNP_41638_A_25325410	NC_021165.1	Ca_Kabuli_Chr06	25325410	TT	CC	CC	INTERGENIC			
SNP_41639_A_25325418	NC_021165.1	Ca_Kabuli_Chr06	25325418	TT	CC	CC	INTERGENIC			
SNP_41641_A_25338074	NC_021165.1	Ca_Kabuli_Chr06	25338074	AA	GG	GG	INTERGENIC			
SNP_41642_A_25352576	NC_021165.1	Ca_Kabuli_Chr06	25352576	TT	AA	AA	INTERGENIC			
SNP_41643_A_25356064	NC_021165.1	Ca_Kabuli_Chr06	25356064	TT	CC	CC	INTERGENIC			
SNP_41644_A_25356080	NC_021165.1	Ca_Kabuli_Chr06	25356080	CC	AA	AA	INTERGENIC			
SNP_41645_A_25356096	NC_021165.1	Ca_Kabuli_Chr06	25356096	TT	CC	CC	INTERGENIC			
SNP_41646_A_25440571	NC_021165.1	Ca_Kabuli_Chr06	25440571	CC	TT	TT	INTERGENIC			
SNP_41647_A_25440575	NC_021165.1	Ca_Kabuli_Chr06	25440575	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41648_A_25440627	NC_021165.1	Ca_Kabuli_Chr06	25440627	TT	GG	GG	INTERGENIC			
SNP_41649_A_25440651	NC_021165.1	Ca_Kabuli_Chr06	25440651	GG	TT	TT	INTERGENIC			
SNP_41650_A_25448664	NC_021165.1	Ca_Kabuli_Chr06	25448664	AA	CC	CC	INTERGENIC			
SNP_41651_A_25518629	NC_021165.1	Ca_Kabuli_Chr06	25518629	GG	AA	AA	INTERGENIC			
SNP_41652_A_25534711	NC_021165.1	Ca_Kabuli_Chr06	25534711	TT	GG	GG	INTERGENIC			
SNP_41653_A_25536027	NC_021165.1	Ca_Kabuli_Chr06	25536027	TT	GG	GG	INTERGENIC			
SNP_41654_A_25545553	NC_021165.1	Ca_Kabuli_Chr06	25545553	TT	CC	CC	INTERGENIC			
SNP_41655_A_25545991	NC_021165.1	Ca_Kabuli_Chr06	25545991	AA	GG	GG	INTERGENIC			
SNP_41656_A_25548722	NC_021165.1	Ca_Kabuli_Chr06	25548722	GG	AA	AA	INTERGENIC			
SNP_41657_A_25549592	NC_021165.1	Ca_Kabuli_Chr06	25549592	CC	TT	TT	INTERGENIC			
SNP_41658_A_25549600	NC_021165.1	Ca_Kabuli_Chr06	25549600	AA	GG	GG	INTERGENIC			
SNP_41659_A_25549602	NC_021165.1	Ca_Kabuli_Chr06	25549602	TT	CC	CC	INTERGENIC			
SNP_41660_A_25549620	NC_021165.1	Ca_Kabuli_Chr06	25549620	GG	TT	TT	INTERGENIC			
SNP_41661_A_25549639	NC_021165.1	Ca_Kabuli_Chr06	25549639	TT	CC	CC	INTERGENIC			
SNP_41662_A_25549648	NC_021165.1	Ca_Kabuli_Chr06	25549648	TT	CC	CC	INTERGENIC			
SNP_41663_A_25549666	NC_021165.1	Ca_Kabuli_Chr06	25549666	TT	CC	CC	INTERGENIC			
SNP_41664_A_25549678	NC_021165.1	Ca_Kabuli_Chr06	25549678	TT	AA	AA	INTERGENIC			
SNP_41665_A_25549696	NC_021165.1	Ca_Kabuli_Chr06	25549696	TT	CC	CC	INTERGENIC			
SNP_41666_A_25549712	NC_021165.1	Ca_Kabuli_Chr06	25549712	TT	CC	CC	INTERGENIC			
SNP_41667_A_25549801	NC_021165.1	Ca_Kabuli_Chr06	25549801	TT	GG	GG	INTERGENIC			
SNP_41668_A_25549807	NC_021165.1	Ca_Kabuli_Chr06	25549807	GG	AA	AA	INTERGENIC			
SNP_41669_A_25549825	NC_021165.1	Ca_Kabuli_Chr06	25549825	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41670_A_25549831	NC_021165.1	Ca_Kabuli_Chr06	25549831	CC	TT	TT	INTERGENIC			
SNP_41671_A_25549834	NC_021165.1	Ca_Kabuli_Chr06	25549834	GG	AA	AA	INTERGENIC			
SNP_41672_A_25549837	NC_021165.1	Ca_Kabuli_Chr06	25549837	AA	GG	GG	INTERGENIC			
SNP_41673_A_25549867	NC_021165.1	Ca_Kabuli_Chr06	25549867	TT	AA	AA	INTERGENIC			
SNP_41674_A_25549970	NC_021165.1	Ca_Kabuli_Chr06	25549970	GG	AA	AA	INTERGENIC			
SNP_41675_A_25550043	NC_021165.1	Ca_Kabuli_Chr06	25550043	CC	AA	AA	INTERGENIC			
SNP_41677_A_25559001	NC_021165.1	Ca_Kabuli_Chr06	25559001	AA	CC	CC	INTERGENIC			
SNP_41678_A_25559005	NC_021165.1	Ca_Kabuli_Chr06	25559005	AA	GG	GG	INTERGENIC			
SNP_41679_A_25559023	NC_021165.1	Ca_Kabuli_Chr06	25559023	GG	AA	AA	INTERGENIC			
SNP_41680_A_25569011	NC_021165.1	Ca_Kabuli_Chr06	25569011	GG	AA	AA	INTERGENIC			
SNP_41681_A_25570033	NC_021165.1	Ca_Kabuli_Chr06	25570033	AA	GG	GG	INTERGENIC			
SNP_41682_A_25570179	NC_021165.1	Ca_Kabuli_Chr06	25570179	TT	CC	CC	INTERGENIC			
SNP_41683_A_25573599	NC_021165.1	Ca_Kabuli_Chr06	25573599	CC	AA	AA	INTERGENIC			
SNP_41684_A_25581446	NC_021165.1	Ca_Kabuli_Chr06	25581446	GG	TT	TT	INTERGENIC			
SNP_41685_A_25581473	NC_021165.1	Ca_Kabuli_Chr06	25581473	GG	AA	AA	INTERGENIC			
SNP_41686_A_25581475	NC_021165.1	Ca_Kabuli_Chr06	25581475	TT	CC	CC	INTERGENIC			
SNP_41687_A_25586866	NC_021165.1	Ca_Kabuli_Chr06	25586866	GG	TT	TT	INTERGENIC			
SNP_41689_A_25595905	NC_021165.1	Ca_Kabuli_Chr06	25595905	TT	CC	CC	INTERGENIC			
SNP_41690_A_25608897	NC_021165.1	Ca_Kabuli_Chr06	25608897	GG	TT	TT	INTERGENIC			
SNP_41692_A_25613214	NC_021165.1	Ca_Kabuli_Chr06	25613214	GG	AA	AA	INTERGENIC			
SNP_41693_A_25613503	NC_021165.1	Ca_Kabuli_Chr06	25613503	AA	GG	GG	INTERGENIC			
SNP_41694_A_25624867	NC_021165.1	Ca_Kabuli_Chr06	25624867	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41695_A_25626097	NC_021165.1	Ca_Kabuli_Chr06	25626097	GG	AA	AA	INTERGENIC		
SNP_41696_A_25638387	NC_021165.1	Ca_Kabuli_Chr06	25638387	TT	CC	CC	INTRON	101493662	protein FAR-RED IMPAIRED RESPONSE 1-like
SNP_41697_A_25638459	NC_021165.1	Ca_Kabuli_Chr06	25638459	CC	TT	TT	INTRON	101493662	protein FAR-RED IMPAIRED RESPONSE 1-like
SNP_41698_A_25638748	NC_021165.1	Ca_Kabuli_Chr06	25638748	TT	GG	GG	INTRON	101493662	protein FAR-RED IMPAIRED RESPONSE 1-like
SNP_41699_A_25638757	NC_021165.1	Ca_Kabuli_Chr06	25638757	TT	AA	AA	INTRON	101493662	protein FAR-RED IMPAIRED RESPONSE 1-like
SNP_41700_A_25652511	NC_021165.1	Ca_Kabuli_Chr06	25652511	CC	AA	AA	INTRON	101493977	protein ALWAYS EARLY 2-like
SNP_41701_A_25671405	NC_021165.1	Ca_Kabuli_Chr06	25671405	TT	AA	AA	INTERGENIC		
SNP_41702_A_25671453	NC_021165.1	Ca_Kabuli_Chr06	25671453	AA	GG	GG	INTERGENIC		
SNP_41703_A_25671783	NC_021165.1	Ca_Kabuli_Chr06	25671783	AA	TT	TT	INTERGENIC		
SNP_41704_A_25671912	NC_021165.1	Ca_Kabuli_Chr06	25671912	TT	GG	GG	INTERGENIC		
SNP_41705_A_25672063	NC_021165.1	Ca_Kabuli_Chr06	25672063	AA	TT	TT	INTERGENIC		
SNP_41707_A_25690429	NC_021165.1	Ca_Kabuli_Chr06	25690429	AA	TT	TT	INTERGENIC		
SNP_41708_A_25690430	NC_021165.1	Ca_Kabuli_Chr06	25690430	TT	AA	AA	INTERGENIC		
SNP_41709_A_25696751	NC_021165.1	Ca_Kabuli_Chr06	25696751	TT	GG	GG	INTERGENIC		
SNP_41710_A_25697192	NC_021165.1	Ca_Kabuli_Chr06	25697192	TT	CC	CC	INTERGENIC		
SNP_41711_A_25726708	NC_021165.1	Ca_Kabuli_Chr06	25726708	TT	AA	AA	INTERGENIC		
SNP_41712_A_25727213	NC_021165.1	Ca_Kabuli_Chr06	25727213	AA	GG	GG	INTERGENIC		
SNP_41713_A_25727225	NC_021165.1	Ca_Kabuli_Chr06	25727225	GG	CC	CC	INTERGENIC		
SNP_41714_A_25733362	NC_021165.1	Ca_Kabuli_Chr06	25733362	GG	AA	AA	INTERGENIC		
SNP_41715_A_25733620	NC_021165.1	Ca_Kabuli_Chr06	25733620	CC	TT	TT	INTERGENIC		
SNP_41717_A_25733729	NC_021165.1	Ca_Kabuli_Chr06	25733729	CC	TT	TT	INTERGENIC		
SNP_41718_A_25733743	NC_021165.1	Ca_Kabuli_Chr06	25733743	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41719_A_25733745	NC_021165.1	Ca_Kabuli_Chr06	25733745	GG	AA	AA	INTERGENIC			
SNP_41720_A_25751760	NC_021165.1	Ca_Kabuli_Chr06	25751760	AA	CC	CC	INTERGENIC			
SNP_41721_A_25751821	NC_021165.1	Ca_Kabuli_Chr06	25751821	TT	CC	CC	INTERGENIC			
SNP_41722_A_25752006	NC_021165.1	Ca_Kabuli_Chr06	25752006	GG	AA	AA	INTERGENIC			
SNP_41723_A_25756878	NC_021165.1	Ca_Kabuli_Chr06	25756878	CC	TT	TT	INTERGENIC			
SNP_41724_A_25757855	NC_021165.1	Ca_Kabuli_Chr06	25757855	GG	AA	AA	INTERGENIC			
SNP_41725_A_25758105	NC_021165.1	Ca_Kabuli_Chr06	25758105	GG	AA	AA	INTERGENIC			
SNP_41727_A_25773506	NC_021165.1	Ca_Kabuli_Chr06	25773506	AA	GG	GG	INTERGENIC			
SNP_41728_A_25789400	NC_021165.1	Ca_Kabuli_Chr06	25789400	CC	TT	TT	INTERGENIC			
SNP_41729_A_25789415	NC_021165.1	Ca_Kabuli_Chr06	25789415	AA	GG	GG	INTERGENIC			
SNP_41730_A_25821823	NC_021165.1	Ca_Kabuli_Chr06	25821823	GG	TT	TT	INTERGENIC			
SNP_41731_A_25834242	NC_021165.1	Ca_Kabuli_Chr06	25834242	GG	AA	AA	INTERGENIC			
SNP_41732_A_25867554	NC_021165.1	Ca_Kabuli_Chr06	25867554	TT	GG	AA	INTERGENIC			
SNP_41733_A_25867611	NC_021165.1	Ca_Kabuli_Chr06	25867611	AA	GG	GG	INTERGENIC			
SNP_41734_A_25867647	NC_021165.1	Ca_Kabuli_Chr06	25867647	GG	AA	AA	INTERGENIC			
SNP_41735_A_25867650	NC_021165.1	Ca_Kabuli_Chr06	25867650	AA	GG	GG	INTERGENIC			
SNP_41736_A_25867658	NC_021165.1	Ca_Kabuli_Chr06	25867658	TT	CC	CC	INTERGENIC			
SNP_41737_A_25867665	NC_021165.1	Ca_Kabuli_Chr06	25867665	TT	CC	CC	INTERGENIC			
SNP_41738_A_25867709	NC_021165.1	Ca_Kabuli_Chr06	25867709	TT	GG	GG	INTERGENIC			
SNP_41739_A_25868100	NC_021165.1	Ca_Kabuli_Chr06	25868100	TT	AA	AA	INTERGENIC			
SNP_41740_A_25869062	NC_021165.1	Ca_Kabuli_Chr06	25869062	TT	GG	GG	INTERGENIC			
SNP_41741_A_25869104	NC_021165.1	Ca_Kabuli_Chr06	25869104	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41742_A_25869140	NC_021165.1	Ca_Kabuli_Chr06	25869140	AA	CC	CC	INTERGENIC			
SNP_41743_A_25869181	NC_021165.1	Ca_Kabuli_Chr06	25869181	TT	CC	CC	INTERGENIC			
SNP_41744_A_25869254	NC_021165.1	Ca_Kabuli_Chr06	25869254	AA	GG	GG	INTERGENIC			
SNP_41745_A_25869411	NC_021165.1	Ca_Kabuli_Chr06	25869411	TT	GG	GG	INTERGENIC			
SNP_41746_A_25869437	NC_021165.1	Ca_Kabuli_Chr06	25869437	CC	GG	GG	INTERGENIC			
SNP_41747_A_25869441	NC_021165.1	Ca_Kabuli_Chr06	25869441	TT	GG	GG	INTERGENIC			
SNP_41748_A_25869497	NC_021165.1	Ca_Kabuli_Chr06	25869497	CC	TT	TT	INTERGENIC			
SNP_41749_A_25892592	NC_021165.1	Ca_Kabuli_Chr06	25892592	AA	GG	GG	INTERGENIC			
SNP_41750_A_25892608	NC_021165.1	Ca_Kabuli_Chr06	25892608	AA	CC	CC	INTERGENIC			
SNP_41751_A_25894571	NC_021165.1	Ca_Kabuli_Chr06	25894571	AA	GG	GG	INTERGENIC			
SNP_41752_A_25900117	NC_021165.1	Ca_Kabuli_Chr06	25900117	AA	GG	GG	INTERGENIC			
SNP_41753_A_25916484	NC_021165.1	Ca_Kabuli_Chr06	25916484	CC	TT	TT	INTERGENIC			
SNP_41754_A_25916486	NC_021165.1	Ca_Kabuli_Chr06	25916486	AA	GG	GG	INTERGENIC			
SNP_41755_A_25916489	NC_021165.1	Ca_Kabuli_Chr06	25916489	TT	GG	AA	INTERGENIC			
SNP_41756_A_25916500	NC_021165.1	Ca_Kabuli_Chr06	25916500	AA	GG	GG	INTERGENIC			
SNP_41757_A_25916600	NC_021165.1	Ca_Kabuli_Chr06	25916600	GG	AA	AA	INTERGENIC			
SNP_41759_A_25916630	NC_021165.1	Ca_Kabuli_Chr06	25916630	CC	TT	TT	INTERGENIC			
SNP_41761_A_25916663	NC_021165.1	Ca_Kabuli_Chr06	25916663	TT	CC	CC	INTERGENIC			
SNP_41762_A_25916702	NC_021165.1	Ca_Kabuli_Chr06	25916702	TT	CC	CC	INTERGENIC			
SNP_41763_A_25916902	NC_021165.1	Ca_Kabuli_Chr06	25916902	AA	GG	GG	INTERGENIC			
SNP_41764_A_25916935	NC_021165.1	Ca_Kabuli_Chr06	25916935	CC	AA	AA	INTERGENIC			
SNP_41765_A_25917007	NC_021165.1	Ca_Kabuli_Chr06	25917007	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41766_A_25917055	NC_021165.1	Ca_Kabuli_Chr06	25917055	GG	AA	AA	INTERGENIC		
SNP_41767_A_25941060	NC_021165.1	Ca_Kabuli_Chr06	25941060	AA	CC	CC	INTERGENIC		
SNP_41769_A_25967483	NC_021165.1	Ca_Kabuli_Chr06	25967483	AA	GG	GG	INTERGENIC		
SNP_41770_A_25978111	NC_021165.1	Ca_Kabuli_Chr06	25978111	AA	GG	GG	INTERGENIC		
SNP_41771_A_25978701	NC_021165.1	Ca_Kabuli_Chr06	25978701	CC	TT	TT	INTERGENIC		
SNP_41772_A_26007381	NC_021165.1	Ca_Kabuli_Chr06	26007381	AA	TT	TT	INTERGENIC		
SNP_41773_A_26023113	NC_021165.1	Ca_Kabuli_Chr06	26023113	AA	GG	GG	INTERGENIC		
SNP_41775_A_26027576	NC_021165.1	Ca_Kabuli_Chr06	26027576	AA	GG	GG	INTERGENIC		
SNP_41776_A_26027628	NC_021165.1	Ca_Kabuli_Chr06	26027628	AA	GG	GG	INTERGENIC		
SNP_41777_A_26061037	NC_021165.1	Ca_Kabuli_Chr06	26061037	GG	AA	AA	INTRON	101494297	7-deoxyloganetin glucosyltransferase-like
SNP_41778_A_26065926	NC_021165.1	Ca_Kabuli_Chr06	26065926	TT	GG	GG	INTRON	101494297	7-deoxyloganetin glucosyltransferase-like
SNP_41779_A_26066080	NC_021165.1	Ca_Kabuli_Chr06	26066080	TT	CC	CC	INTRON	101494297	7-deoxyloganetin glucosyltransferase-like
SNP_41780_A_26066116	NC_021165.1	Ca_Kabuli_Chr06	26066116	TT	CC	CC	INTRON	101494297	7-deoxyloganetin glucosyltransferase-like
SNP_41782_A_26092906	NC_021165.1	Ca_Kabuli_Chr06	26092906	AA	CC	CC	INTRON	101494920	protein TRANSPARENT TESTA 1-like
SNP_41783_A_26131781	NC_021165.1	Ca_Kabuli_Chr06	26131781	CC	TT	TT	INTERGENIC		
SNP_41784_A_26132045	NC_021165.1	Ca_Kabuli_Chr06	26132045	TT	AA	AA	INTERGENIC		
SNP_41785_A_26132073	NC_021165.1	Ca_Kabuli_Chr06	26132073	AA	GG	GG	INTERGENIC		
SNP_41786_A_26132085	NC_021165.1	Ca_Kabuli_Chr06	26132085	CC	GG	GG	INTERGENIC		
SNP_41787_A_26132093	NC_021165.1	Ca_Kabuli_Chr06	26132093	AA	GG	GG	INTERGENIC		
SNP_41788_A_26152533	NC_021165.1	Ca_Kabuli_Chr06	26152533	CC	TT	TT	INTERGENIC		
SNP_41789_A_26152823	NC_021165.1	Ca_Kabuli_Chr06	26152823	AA	GG	GG	INTERGENIC		
SNP_41790_A_26152861	NC_021165.1	Ca_Kabuli_Chr06	26152861	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41791_A_26152919	NC_021165.1	Ca_Kabuli_Chr06	26152919	AA	GG	GG	INTERGENIC			
SNP_41792_A_26159928	NC_021165.1	Ca_Kabuli_Chr06	26159928	CC	GG	GG	INTERGENIC			
SNP_41793_A_26159931	NC_021165.1	Ca_Kabuli_Chr06	26159931	GG	AA	AA	INTERGENIC			
SNP_41794_A_26170587	NC_021165.1	Ca_Kabuli_Chr06	26170587	GG	TT	TT	INTERGENIC			
SNP_41795_A_26213125	NC_021165.1	Ca_Kabuli_Chr06	26213125	TT	CC	CC	INTERGENIC			
SNP_41796_A_26240562	NC_021165.1	Ca_Kabuli_Chr06	26240562	TT	CC	CC	INTERGENIC			
SNP_41797_A_26244243	NC_021165.1	Ca_Kabuli_Chr06	26244243	TT	CC	CC	INTERGENIC			
SNP_41798_A_26244267	NC_021165.1	Ca_Kabuli_Chr06	26244267	GG	AA	AA	INTERGENIC			
SNP_41799_A_26244282	NC_021165.1	Ca_Kabuli_Chr06	26244282	TT	CC	CC	INTERGENIC			
SNP_41800_A_26244306	NC_021165.1	Ca_Kabuli_Chr06	26244306	CC	TT	TT	INTERGENIC			
SNP_41801_A_26244308	NC_021165.1	Ca_Kabuli_Chr06	26244308	GG	AA	AA	INTERGENIC			
SNP_41802_A_26247969	NC_021165.1	Ca_Kabuli_Chr06	26247969	CC	TT	TT	INTERGENIC			
SNP_41803_A_26247987	NC_021165.1	Ca_Kabuli_Chr06	26247987	CC	TT	TT	INTERGENIC			
SNP_41804_A_26248015	NC_021165.1	Ca_Kabuli_Chr06	26248015	AA	TT	TT	INTERGENIC			
SNP_41805_A_26248026	NC_021165.1	Ca_Kabuli_Chr06	26248026	TT	CC	CC	INTERGENIC			
SNP_41806_A_26248041	NC_021165.1	Ca_Kabuli_Chr06	26248041	TT	GG	GG	INTERGENIC			
SNP_41807_A_26248237	NC_021165.1	Ca_Kabuli_Chr06	26248237	GG	TT	TT	INTERGENIC			
SNP_41808_A_26254738	NC_021165.1	Ca_Kabuli_Chr06	26254738	AA	TT	TT	INTERGENIC			
SNP_41809_A_26254752	NC_021165.1	Ca_Kabuli_Chr06	26254752	AA	GG	GG	INTERGENIC			
SNP_41810_A_26257056	NC_021165.1	Ca_Kabuli_Chr06	26257056	TT	CC	CC	INTERGENIC			
SNP_41811_A_26257059	NC_021165.1	Ca_Kabuli_Chr06	26257059	AA	GG	GG	INTERGENIC			
SNP_41812_A_26267748	NC_021165.1	Ca_Kabuli_Chr06	26267748	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41813_A_26277598	NC_021165.1	Ca_Kabuli_Chr06	26277598	CC	TT	TT	INTERGENIC			
SNP_41815_A_26277848	NC_021165.1	Ca_Kabuli_Chr06	26277848	AA	TT	TT	INTERGENIC			
SNP_41816_A_26278038	NC_021165.1	Ca_Kabuli_Chr06	26278038	TT	GG	GG	INTERGENIC			
SNP_41817_A_26278114	NC_021165.1	Ca_Kabuli_Chr06	26278114	AA	GG	GG	INTERGENIC			
SNP_41818_A_26278230	NC_021165.1	Ca_Kabuli_Chr06	26278230	AA	GG	GG	INTERGENIC			
SNP_41819_A_26278238	NC_021165.1	Ca_Kabuli_Chr06	26278238	TT	CC	CC	INTERGENIC			
SNP_41820_A_26278239	NC_021165.1	Ca_Kabuli_Chr06	26278239	AA	GG	GG	INTERGENIC			
SNP_41821_A_26278254	NC_021165.1	Ca_Kabuli_Chr06	26278254	CC	TT	TT	INTERGENIC			
SNP_41822_A_26278271	NC_021165.1	Ca_Kabuli_Chr06	26278271	AA	GG	GG	INTERGENIC			
SNP_41823_A_26278309	NC_021165.1	Ca_Kabuli_Chr06	26278309	TT	GG	GG	INTERGENIC			
SNP_41824_A_26283784	NC_021165.1	Ca_Kabuli_Chr06	26283784	AA	GG	GG	INTERGENIC			
SNP_41825_A_26286460	NC_021165.1	Ca_Kabuli_Chr06	26286460	AA	GG	GG	INTERGENIC			
SNP_41826_A_26298259	NC_021165.1	Ca_Kabuli_Chr06	26298259	AA	GG	GG	INTERGENIC			
SNP_41827_A_26309641	NC_021165.1	Ca_Kabuli_Chr06	26309641	TT	CC	CC	INTERGENIC			
SNP_41828_A_26309669	NC_021165.1	Ca_Kabuli_Chr06	26309669	TT	GG	GG	INTERGENIC			
SNP_41829_A_26309979	NC_021165.1	Ca_Kabuli_Chr06	26309979	CC	AA	AA	INTERGENIC			
SNP_41830_A_26310022	NC_021165.1	Ca_Kabuli_Chr06	26310022	AA	CC	CC	INTERGENIC			
SNP_41831_A_26310042	NC_021165.1	Ca_Kabuli_Chr06	26310042	AA	GG	GG	INTERGENIC			
SNP_41832_A_26310050	NC_021165.1	Ca_Kabuli_Chr06	26310050	TT	CC	CC	INTERGENIC			
SNP_41833_A_26310052	NC_021165.1	Ca_Kabuli_Chr06	26310052	TT	GG	GG	INTERGENIC			
SNP_41834_A_26310056	NC_021165.1	Ca_Kabuli_Chr06	26310056	AA	GG	GG	INTERGENIC			
SNP_41835_A_26310067	NC_021165.1	Ca_Kabuli_Chr06	26310067	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41836_A_26310073	NC_021165.1	Ca_Kabuli_Chr06	26310073	TT	AA	AA	INTERGENIC		
SNP_41837_A_26438823	NC_021165.1	Ca_Kabuli_Chr06	26438823	GG	TT	TT	INTERGENIC		
SNP_41838_A_26454234	NC_021165.1	Ca_Kabuli_Chr06	26454234	CC	TT	TT	URR	101499809	probable protein phosphatase 2C 4
SNP_41839_A_26479701	NC_021165.1	Ca_Kabuli_Chr06	26479701	GG	AA	AA	INTERGENIC		
SNP_41840_A_26507527	NC_021165.1	Ca_Kabuli_Chr06	26507527	GG	AA	AA	INTERGENIC		
SNP_41841_A_26545277	NC_021165.1	Ca_Kabuli_Chr06	26545277	AA	GG	GG	INTERGENIC		
SNP_41843_A_26604882	NC_021165.1	Ca_Kabuli_Chr06	26604882	AA	CC	CC	INTERGENIC		
SNP_41844_A_26645562	NC_021165.1	Ca_Kabuli_Chr06	26645562	TT	AA	AA	INTERGENIC		
SNP_41845_A_26648195	NC_021165.1	Ca_Kabuli_Chr06	26648195	TT	AA	AA	INTERGENIC		
SNP_41846_A_26685959	NC_021165.1	Ca_Kabuli_Chr06	26685959	GG	CC	CC	URR	101503972	uncharacterized LOC101503972
SNP_41847_A_26686289	NC_021165.1	Ca_Kabuli_Chr06	26686289	TT	AA	AA	URR	101503972	uncharacterized LOC101503972
SNP_41848_A_26686587	NC_021165.1	Ca_Kabuli_Chr06	26686587	CC	TT	TT	URR	101503972	uncharacterized LOC101503972
SNP_41849_A_26721504	NC_021165.1	Ca_Kabuli_Chr06	26721504	TT	CC	CC	URR	101505149	uncharacterized LOC101505149
SNP_41850_A_26721786	NC_021165.1	Ca_Kabuli_Chr06	26721786	GG	TT	TT	URR	101505149	uncharacterized LOC101505149
SNP_41852_A_26828982	NC_021165.1	Ca_Kabuli_Chr06	26828982	CC	AA	AA	URR	101508258	uncharacterized LOC101508258
SNP_41854_A_26922806	NC_021165.1	Ca_Kabuli_Chr06	26922806	TT	CC	CC	INTERGENIC		
SNP_41855_A_26922839	NC_021165.1	Ca_Kabuli_Chr06	26922839	CC	TT	TT	INTERGENIC		
SNP_41856_A_26923260	NC_021165.1	Ca_Kabuli_Chr06	26923260	AA	TT	TT	DRR	101512559	60S ribosomal protein L35
SNP_41857_A_26948219	NC_021165.1	Ca_Kabuli_Chr06	26948219	TT	AA	AA	INTERGENIC		
SNP_41858_A_26948222	NC_021165.1	Ca_Kabuli_Chr06	26948222	TT	GG	GG	INTERGENIC		
SNP_41859_A_26949946	NC_021165.1	Ca_Kabuli_Chr06	26949946	GG	CC	CC	INTERGENIC		
SNP_41860_A_26950010	NC_021165.1	Ca_Kabuli_Chr06	26950010	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41861_A_26954303	NC_021165.1	Ca_Kabuli_Chr06	26954303	AA	TT	TT	INTERGENIC		
SNP_41862_A_26954691	NC_021165.1	Ca_Kabuli_Chr06	26954691	CC	TT	TT	INTERGENIC		
SNP_41863_A_26977096	NC_021165.1	Ca_Kabuli_Chr06	26977096	TT	CC	CC	INTERGENIC		
SNP_41864_A_27008100	NC_021165.1	Ca_Kabuli_Chr06	27008100	GG	AA	AA	INTERGENIC		
SNP_41865_A_27008119	NC_021165.1	Ca_Kabuli_Chr06	27008119	AA	GG	GG	INTERGENIC		
SNP_41866_A_27021813	NC_021165.1	Ca_Kabuli_Chr06	27021813	GG	AA	AA	INTERGENIC		
SNP_41867_A_27039047	NC_021165.1	Ca_Kabuli_Chr06	27039047	CC	TT	TT	INTERGENIC		
SNP_41868_A_27039074	NC_021165.1	Ca_Kabuli_Chr06	27039074	AA	GG	GG	INTERGENIC		
SNP_41869_A_27039091	NC_021165.1	Ca_Kabuli_Chr06	27039091	CC	AA	AA	INTERGENIC		
SNP_41870_A_27039094	NC_021165.1	Ca_Kabuli_Chr06	27039094	CC	TT	TT	INTERGENIC		
SNP_41871_A_27039232	NC_021165.1	Ca_Kabuli_Chr06	27039232	CC	TT	TT	INTERGENIC		
SNP_41872_A_27039348	NC_021165.1	Ca_Kabuli_Chr06	27039348	AA	TT	TT	INTERGENIC		
SNP_41873_A_27039409	NC_021165.1	Ca_Kabuli_Chr06	27039409	TT	GG	GG	INTERGENIC		
SNP_41874_A_27067743	NC_021165.1	Ca_Kabuli_Chr06	27067743	GG	AA	AA	URR	101490085	E3 UFM1-protein ligase 1 homolog
SNP_41875_A_27067792	NC_021165.1	Ca_Kabuli_Chr06	27067792	CC	TT	TT	URR	101490085	E3 UFM1-protein ligase 1 homolog
SNP_41876_A_27075424	NC_021165.1	Ca_Kabuli_Chr06	27075424	TT	AA	AA	INTERGENIC		
SNP_41877_A_27083870	NC_021165.1	Ca_Kabuli_Chr06	27083870	GG	AA	AA	INTERGENIC		
SNP_41878_A_27108197	NC_021165.1	Ca_Kabuli_Chr06	27108197	TT	GG	GG	DRR	101488892	uncharacterized LOC101488892
SNP_41879_A_27108240	NC_021165.1	Ca_Kabuli_Chr06	27108240	TT	AA	AA	DRR	101488892	uncharacterized LOC101488892
SNP_41880_A_27208662	NC_021165.1	Ca_Kabuli_Chr06	27208662	AA	TT	TT	INTRON	101492784	phototropin-1-like
SNP_41881_A_27223933	NC_021165.1	Ca_Kabuli_Chr06	27223933	AA	TT	TT	DRR	101494202	probable serine/threonine-protein kinase RLCKVII
SNP_41882_A_27258135	NC_021165.1	Ca_Kabuli_Chr06	27258135	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41883_A_27258795	NC_021165.1	Ca_Kabuli_Chr06	27258795	GG	AA	AA	INTERGENIC		
SNP_41885_A_27289118	NC_021165.1	Ca_Kabuli_Chr06	27289118	CC	GG	GG	INTERGENIC		
SNP_41886_A_27297486	NC_021165.1	Ca_Kabuli_Chr06	27297486	TT	AA	AA	INTERGENIC		
SNP_41888_A_27479441	NC_021165.1	Ca_Kabuli_Chr06	27479441	TT	CC	CC	INTRON	101500135	interactor of constitutive active ROPs 3
SNP_41889_A_27479445	NC_021165.1	Ca_Kabuli_Chr06	27479445	TT	CC	CC	INTRON	101500135	interactor of constitutive active ROPs 3
SNP_41890_A_27485639	NC_021165.1	Ca_Kabuli_Chr06	27485639	AA	GG	GG	URR	101500135	interactor of constitutive active ROPs 3
SNP_41891_A_27500711	NC_021165.1	Ca_Kabuli_Chr06	27500711	CC	AA	AA	INTERGENIC		
SNP_41892_A_27503690	NC_021165.1	Ca_Kabuli_Chr06	27503690	TT	CC	CC	INTERGENIC		
SNP_41893_A_27503818	NC_021165.1	Ca_Kabuli_Chr06	27503818	TT	CC	CC	INTERGENIC		
SNP_41894_A_27612327	NC_021165.1	Ca_Kabuli_Chr06	27612327	CC	TT	TT	INTERGENIC		
SNP_41896_A_27640955	NC_021165.1	Ca_Kabuli_Chr06	27640955	GG	AA	AA	INTERGENIC		
SNP_41897_A_27640961	NC_021165.1	Ca_Kabuli_Chr06	27640961	AA	GG	GG	INTERGENIC		
SNP_41899_A_27738654	NC_021165.1	Ca_Kabuli_Chr06	27738654	AA	GG	GG	INTERGENIC		
SNP_41900_A_27738671	NC_021165.1	Ca_Kabuli_Chr06	27738671	CC	TT	TT	INTERGENIC		
SNP_41901_A_27740338	NC_021165.1	Ca_Kabuli_Chr06	27740338	GG	AA	AA	INTERGENIC		
SNP_41902_A_27777082	NC_021165.1	Ca_Kabuli_Chr06	27777082	GG	AA	AA	INTERGENIC		
SNP_41903_A_27777083	NC_021165.1	Ca_Kabuli_Chr06	27777083	CC	TT	TT	INTERGENIC		
SNP_41904_A_27777329	NC_021165.1	Ca_Kabuli_Chr06	27777329	CC	TT	TT	INTERGENIC		
SNP_41905_A_27777350	NC_021165.1	Ca_Kabuli_Chr06	27777350	TT	CC	CC	INTERGENIC		
SNP_41907_A_27854462	NC_021165.1	Ca_Kabuli_Chr06	27854462	CC	AA	AA	INTRON	101510830	serine/threonine-protein kinase GRIK2-like
SNP_41908_A_27902221	NC_021165.1	Ca_Kabuli_Chr06	27902221	TT	CC	CC	INTERGENIC		
SNP_41909_A_27902602	NC_021165.1	Ca_Kabuli_Chr06	27902602	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41910_A_27910476	NC_021165.1	Ca_Kabuli_Chr06	27910476	GG	TT	TT	INTERGENIC		
SNP_41911_A_27910486	NC_021165.1	Ca_Kabuli_Chr06	27910486	TT	CC	CC	INTERGENIC		
SNP_41912_A_27910524	NC_021165.1	Ca_Kabuli_Chr06	27910524	AA	CC	CC	INTERGENIC		
SNP_41913_A_27910529	NC_021165.1	Ca_Kabuli_Chr06	27910529	GG	TT	TT	INTERGENIC		
SNP_41914_A_27910552	NC_021165.1	Ca_Kabuli_Chr06	27910552	AA	TT	TT	INTERGENIC		
SNP_41915_A_27910558	NC_021165.1	Ca_Kabuli_Chr06	27910558	AA	GG	GG	INTERGENIC		
SNP_41916_A_27910573	NC_021165.1	Ca_Kabuli_Chr06	27910573	TT	CC	CC	INTERGENIC		
SNP_41917_A_27910577	NC_021165.1	Ca_Kabuli_Chr06	27910577	AA	TT	TT	INTERGENIC		
SNP_41918_A_27910582	NC_021165.1	Ca_Kabuli_Chr06	27910582	TT	CC	CC	INTERGENIC		
SNP_41920_A_27970250	NC_021165.1	Ca_Kabuli_Chr06	27970250	GG	AA	AA	INTERGENIC		
SNP_41921_A_27988914	NC_021165.1	Ca_Kabuli_Chr06	27988914	GG	AA	AA	URR	101513949	60S ribosomal protein L12-3-like
SNP_41922_A_28004803	NC_021165.1	Ca_Kabuli_Chr06	28004803	TT	CC	CC	INTERGENIC		
SNP_41923_A_28018489	NC_021165.1	Ca_Kabuli_Chr06	28018489	GG	AA	AA	INTERGENIC		
SNP_41925_A_28082992	NC_021165.1	Ca_Kabuli_Chr06	28082992	AA	TT	TT	INTERGENIC		
SNP_41928_A_28119941	NC_021165.1	Ca_Kabuli_Chr06	28119941	AA	CC	CC	INTERGENIC		
SNP_41929_A_28139262	NC_021165.1	Ca_Kabuli_Chr06	28139262	TT	CC	CC	INTERGENIC		
SNP_41930_A_28139279	NC_021165.1	Ca_Kabuli_Chr06	28139279	AA	GG	GG	INTERGENIC		
SNP_41931_A_28159260	NC_021165.1	Ca_Kabuli_Chr06	28159260	AA	GG	GG	DRR	101492111	serine/threonine-protein phosphatase 6 regulatory subunit 3-B like
SNP_41933_A_28189242	NC_021165.1	Ca_Kabuli_Chr06	28189242	CC	AA	AA	INTERGENIC		
SNP_41934_A_28190159	NC_021165.1	Ca_Kabuli_Chr06	28190159	AA	TT	TT	INTERGENIC		
SNP_41937_A_28190987	NC_021165.1	Ca_Kabuli_Chr06	28190987	TT	AA	AA	INTERGENIC		
SNP_41938_A_28191009	NC_021165.1	Ca_Kabuli_Chr06	28191009	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41939_A_28191044	NC_021165.1	Ca_Kabuli_Chr06	28191044	CC	AA	AA	INTERGENIC			
SNP_41940_A_28191069	NC_021165.1	Ca_Kabuli_Chr06	28191069	AA	TT	TT	INTERGENIC			
SNP_41941_A_28191552	NC_021165.1	Ca_Kabuli_Chr06	28191552	CC	GG	GG	INTERGENIC			
SNP_41942_A_28191672	NC_021165.1	Ca_Kabuli_Chr06	28191672	CC	TT	TT	INTERGENIC			
SNP_41943_A_28192424	NC_021165.1	Ca_Kabuli_Chr06	28192424	GG	AA	AA	INTERGENIC			
SNP_41944_A_28192527	NC_021165.1	Ca_Kabuli_Chr06	28192527	AA	CC	CC	INTERGENIC			
SNP_41945_A_28192544	NC_021165.1	Ca_Kabuli_Chr06	28192544	CC	TT	TT	INTERGENIC			
SNP_41946_A_28192873	NC_021165.1	Ca_Kabuli_Chr06	28192873	TT	GG	GG	INTERGENIC			
SNP_41947_A_28192875	NC_021165.1	Ca_Kabuli_Chr06	28192875	CC	GG	GG	INTERGENIC			
SNP_41949_A_28221781	NC_021165.1	Ca_Kabuli_Chr06	28221781	AA	GG	GG	INTERGENIC			
SNP_41950_A_28255801	NC_021165.1	Ca_Kabuli_Chr06	28255801	AA	GG	GG	DRR	101493115	protein-tyrosine sulfotransferase	
SNP_41951_A_28275055	NC_021165.1	Ca_Kabuli_Chr06	28275055	GG	TT	TT	INTERGENIC			
SNP_41952_A_28275993	NC_021165.1	Ca_Kabuli_Chr06	28275993	TT	CC	CC	INTERGENIC			
SNP_41953_A_28276241	NC_021165.1	Ca_Kabuli_Chr06	28276241	TT	CC	CC	INTERGENIC			
SNP_41954_A_28283779	NC_021165.1	Ca_Kabuli_Chr06	28283779	GG	CC	CC	INTERGENIC			
SNP_41955_A_28300895	NC_021165.1	Ca_Kabuli_Chr06	28300895	AA	GG	GG	INTERGENIC			
SNP_41956_A_28300897	NC_021165.1	Ca_Kabuli_Chr06	28300897	CC	TT	TT	INTERGENIC			
SNP_41957_A_28301377	NC_021165.1	Ca_Kabuli_Chr06	28301377	AA	GG	GG	INTERGENIC			
SNP_41959_A_28305434	NC_021165.1	Ca_Kabuli_Chr06	28305434	GG	CC	CC	INTERGENIC			
SNP_41961_A_28305498	NC_021165.1	Ca_Kabuli_Chr06	28305498	GG	AA	AA	INTERGENIC			
SNP_41962_A_28305516	NC_021165.1	Ca_Kabuli_Chr06	28305516	TT	AA	AA	INTERGENIC			
SNP_41963_A_28308301	NC_021165.1	Ca_Kabuli_Chr06	28308301	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_41964_A_28308320	NC_021165.1	Ca_Kabuli_Chr06	28308320	TT	AA	AA	INTERGENIC		
SNP_41965_A_28323082	NC_021165.1	Ca_Kabuli_Chr06	28323082	AA	TT	TT	INTERGENIC		
SNP_41966_A_28323143	NC_021165.1	Ca_Kabuli_Chr06	28323143	CC	TT	TT	INTERGENIC		
SNP_41967_A_28323750	NC_021165.1	Ca_Kabuli_Chr06	28323750	GG	TT	TT	INTERGENIC		
SNP_41968_A_28323869	NC_021165.1	Ca_Kabuli_Chr06	28323869	CC	GG	GG	INTERGENIC		
SNP_41969_A_28323948	NC_021165.1	Ca_Kabuli_Chr06	28323948	CC	TT	TT	INTERGENIC		
SNP_41970_A_28323949	NC_021165.1	Ca_Kabuli_Chr06	28323949	GG	TT	TT	INTERGENIC		
SNP_41971_A_28324162	NC_021165.1	Ca_Kabuli_Chr06	28324162	TT	CC	CC	INTERGENIC		
SNP_41972_A_28324623	NC_021165.1	Ca_Kabuli_Chr06	28324623	CC	TT	TT	DRR	101495153	ribonuclease S-F11-like
SNP_41973_A_28324811	NC_021165.1	Ca_Kabuli_Chr06	28324811	TT	GG	GG	DRR	101495153	ribonuclease S-F11-like
SNP_41974_A_28326153	NC_021165.1	Ca_Kabuli_Chr06	28326153	AA	GG	GG	URR	101495153	ribonuclease S-F11-like
SNP_41976_A_28327235	NC_021165.1	Ca_Kabuli_Chr06	28327235	GG	AA	AA	URR	101495153	ribonuclease S-F11-like
SNP_41978_A_28328440	NC_021165.1	Ca_Kabuli_Chr06	28328440	CC	AA	AA	INTERGENIC		
SNP_41979_A_28328449	NC_021165.1	Ca_Kabuli_Chr06	28328449	GG	TT	TT	INTERGENIC		
SNP_41980_A_28330901	NC_021165.1	Ca_Kabuli_Chr06	28330901	TT	AA	AA	INTERGENIC		
SNP_41981_A_28330934	NC_021165.1	Ca_Kabuli_Chr06	28330934	AA	GG	GG	INTERGENIC		
SNP_41982_A_28331101	NC_021165.1	Ca_Kabuli_Chr06	28331101	TT	CC	CC	INTERGENIC		
SNP_41983_A_28331109	NC_021165.1	Ca_Kabuli_Chr06	28331109	CC	TT	TT	INTERGENIC		
SNP_41984_A_28331116	NC_021165.1	Ca_Kabuli_Chr06	28331116	AA	TT	TT	INTERGENIC		
SNP_41985_A_28331136	NC_021165.1	Ca_Kabuli_Chr06	28331136	TT	CC	CC	INTERGENIC		
SNP_41986_A_28332044	NC_021165.1	Ca_Kabuli_Chr06	28332044	CC	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41987_A_28332074	NC_021165.1	Ca_Kabuli_Chr06	28332074	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_41988_A_28332107	NC_021165.1	Ca_Kabuli_Chr06	28332107	TT	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41989_A_28332112	NC_021165.1	Ca_Kabuli_Chr06	28332112	CC	AA	AA	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41990_A_28332163	NC_021165.1	Ca_Kabuli_Chr06	28332163	CC	TT	TT	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41991_A_28332259	NC_021165.1	Ca_Kabuli_Chr06	28332259	TT	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41992_A_28332269	NC_021165.1	Ca_Kabuli_Chr06	28332269	AA	TT	TT	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41994_A_28332367	NC_021165.1	Ca_Kabuli_Chr06	28332367	AA	CC	CC	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41995_A_28332422	NC_021165.1	Ca_Kabuli_Chr06	28332422	TT	CC	CC	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41996_A_28332424	NC_021165.1	Ca_Kabuli_Chr06	28332424	GG	AA	AA	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41997_A_28332550	NC_021165.1	Ca_Kabuli_Chr06	28332550	AA	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_41998_A_28332561	NC_021165.1	Ca_Kabuli_Chr06	28332561	TT	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42000_A_28332621	NC_021165.1	Ca_Kabuli_Chr06	28332621	TT	AA	AA	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42001_A_28332630	NC_021165.1	Ca_Kabuli_Chr06	28332630	TT	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42002_A_28332647	NC_021165.1	Ca_Kabuli_Chr06	28332647	CC	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42004_A_28332660	NC_021165.1	Ca_Kabuli_Chr06	28332660	AA	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42005_A_28332705	NC_021165.1	Ca_Kabuli_Chr06	28332705	TT	CC	CC	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42006_A_28332722	NC_021165.1	Ca_Kabuli_Chr06	28332722	TT	CC	CC	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42007_A_28332726	NC_021165.1	Ca_Kabuli_Chr06	28332726	TT	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42009_A_28332774	NC_021165.1	Ca_Kabuli_Chr06	28332774	CC	TT	TT	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42010_A_28332786	NC_021165.1	Ca_Kabuli_Chr06	28332786	GG	AA	AA	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42012_A_28332883	NC_021165.1	Ca_Kabuli_Chr06	28332883	TT	CC	CC	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42013_A_28332935	NC_021165.1	Ca_Kabuli_Chr06	28332935	GG	AA	AA	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42015_A_28333063	NC_021165.1	Ca_Kabuli_Chr06	28333063	AA	GG	GG	INTRON		101495477	delta-1-pyrroline-5-carboxylate synthase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42016_A_28333177	NC_021165.1	Ca_Kabuli_Chr06	28333177	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42017_A_28333220	NC_021165.1	Ca_Kabuli_Chr06	28333220	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42018_A_28333671	NC_021165.1	Ca_Kabuli_Chr06	28333671	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42019_A_28334226	NC_021165.1	Ca_Kabuli_Chr06	28334226	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42020_A_28335846	NC_021165.1	Ca_Kabuli_Chr06	28335846	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42022_A_28336720	NC_021165.1	Ca_Kabuli_Chr06	28336720	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42023_A_28336773	NC_021165.1	Ca_Kabuli_Chr06	28336773	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42024_A_28336795	NC_021165.1	Ca_Kabuli_Chr06	28336795	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42025_A_28336872	NC_021165.1	Ca_Kabuli_Chr06	28336872	AA	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42026_A_28336893	NC_021165.1	Ca_Kabuli_Chr06	28336893	TT	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42027_A_28336896	NC_021165.1	Ca_Kabuli_Chr06	28336896	TT	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42028_A_28336902	NC_021165.1	Ca_Kabuli_Chr06	28336902	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42029_A_28336938	NC_021165.1	Ca_Kabuli_Chr06	28336938	TT	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42030_A_28336951	NC_021165.1	Ca_Kabuli_Chr06	28336951	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42031_A_28336967	NC_021165.1	Ca_Kabuli_Chr06	28336967	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42032_A_28336971	NC_021165.1	Ca_Kabuli_Chr06	28336971	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42033_A_28336980	NC_021165.1	Ca_Kabuli_Chr06	28336980	TT	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42034_A_28337031	NC_021165.1	Ca_Kabuli_Chr06	28337031	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42035_A_28337049	NC_021165.1	Ca_Kabuli_Chr06	28337049	CC	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42036_A_28337130	NC_021165.1	Ca_Kabuli_Chr06	28337130	CC	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42037_A_28337162	NC_021165.1	Ca_Kabuli_Chr06	28337162	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42038_A_28337170	NC_021165.1	Ca_Kabuli_Chr06	28337170	CC	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42039_A_28337205	NC_021165.1	Ca_Kabuli_Chr06	28337205	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42040_A_28337230	NC_021165.1	Ca_Kabuli_Chr06	28337230	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42041_A_28337239	NC_021165.1	Ca_Kabuli_Chr06	28337239	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42042_A_28337254	NC_021165.1	Ca_Kabuli_Chr06	28337254	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42043_A_28337297	NC_021165.1	Ca_Kabuli_Chr06	28337297	TT	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42044_A_28337316	NC_021165.1	Ca_Kabuli_Chr06	28337316	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42045_A_28337362	NC_021165.1	Ca_Kabuli_Chr06	28337362	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42046_A_28337375	NC_021165.1	Ca_Kabuli_Chr06	28337375	TT	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42047_A_28337466	NC_021165.1	Ca_Kabuli_Chr06	28337466	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42048_A_28337480	NC_021165.1	Ca_Kabuli_Chr06	28337480	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42049_A_28339616	NC_021165.1	Ca_Kabuli_Chr06	28339616	TT	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42050_A_28350715	NC_021165.1	Ca_Kabuli_Chr06	28350715	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42051_A_28350872	NC_021165.1	Ca_Kabuli_Chr06	28350872	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42052_A_28350958	NC_021165.1	Ca_Kabuli_Chr06	28350958	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42053_A_28350993	NC_021165.1	Ca_Kabuli_Chr06	28350993	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42054_A_28351061	NC_021165.1	Ca_Kabuli_Chr06	28351061	CC	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42055_A_28351228	NC_021165.1	Ca_Kabuli_Chr06	28351228	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42056_A_28351378	NC_021165.1	Ca_Kabuli_Chr06	28351378	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42057_A_28353434	NC_021165.1	Ca_Kabuli_Chr06	28353434	AA	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42058_A_28353709	NC_021165.1	Ca_Kabuli_Chr06	28353709	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42059_A_28354240	NC_021165.1	Ca_Kabuli_Chr06	28354240	CC	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42060_A_28354495	NC_021165.1	Ca_Kabuli_Chr06	28354495	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42061_A_28354622	NC_021165.1	Ca_Kabuli_Chr06	28354622	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42062_A_28354828	NC_021165.1	Ca_Kabuli_Chr06	28354828	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42063_A_28355011	NC_021165.1	Ca_Kabuli_Chr06	28355011	TT	CC	CC	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42064_A_28355195	NC_021165.1	Ca_Kabuli_Chr06	28355195	GG	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42065_A_28355225	NC_021165.1	Ca_Kabuli_Chr06	28355225	TT	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42066_A_28355507	NC_021165.1	Ca_Kabuli_Chr06	28355507	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42067_A_28355844	NC_021165.1	Ca_Kabuli_Chr06	28355844	CC	TT	TT	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42068_A_28356046	NC_021165.1	Ca_Kabuli_Chr06	28356046	AA	GG	GG	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42069_A_28356412	NC_021165.1	Ca_Kabuli_Chr06	28356412	GG	AA	AA	INTRON	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42070_A_28374004	NC_021165.1	Ca_Kabuli_Chr06	28374004	AA	GG	GG	URR	101495477	delta-1-pyrroline-5-carboxylate synthase-like
SNP_42071_A_28388227	NC_021165.1	Ca_Kabuli_Chr06	28388227	CC	TT	TT	INTERGENIC		
SNP_42072_A_28388247	NC_021165.1	Ca_Kabuli_Chr06	28388247	TT	CC	CC	INTERGENIC		
SNP_42073_A_28388249	NC_021165.1	Ca_Kabuli_Chr06	28388249	TT	CC	CC	INTERGENIC		
SNP_42074_A_28394270	NC_021165.1	Ca_Kabuli_Chr06	28394270	TT	CC	CC	INTERGENIC		
SNP_42075_A_28394639	NC_021165.1	Ca_Kabuli_Chr06	28394639	TT	GG	GG	INTERGENIC		
SNP_42076_A_28431056	NC_021165.1	Ca_Kabuli_Chr06	28431056	GG	TT	TT	INTERGENIC		
SNP_42077_A_28433491	NC_021165.1	Ca_Kabuli_Chr06	28433491	AA	GG	GG	DRR	101495805	F-box/kelch-repeat protein At3g06240-like
SNP_42078_A_28434990	NC_021165.1	Ca_Kabuli_Chr06	28434990	AA	GG	GG	URR	101495805	F-box/kelch-repeat protein At3g06240-like
SNP_42079_A_28440058	NC_021165.1	Ca_Kabuli_Chr06	28440058	TT	CC	CC	INTERGENIC		
SNP_42080_A_28442088	NC_021165.1	Ca_Kabuli_Chr06	28442088	TT	CC	CC	INTERGENIC		
SNP_42081_A_28442150	NC_021165.1	Ca_Kabuli_Chr06	28442150	CC	TT	TT	INTERGENIC		
SNP_42082_A_28442157	NC_021165.1	Ca_Kabuli_Chr06	28442157	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42083_A_28442161	NC_021165.1	Ca_Kabuli_Chr06	28442161	GG	AA	AA	INTERGENIC			
SNP_42084_A_28442162	NC_021165.1	Ca_Kabuli_Chr06	28442162	AA	GG	GG	INTERGENIC			
SNP_42085_A_28442301	NC_021165.1	Ca_Kabuli_Chr06	28442301	AA	CC	CC	INTERGENIC			
SNP_42086_A_28442360	NC_021165.1	Ca_Kabuli_Chr06	28442360	AA	GG	GG	INTERGENIC			
SNP_42087_A_28443167	NC_021165.1	Ca_Kabuli_Chr06	28443167	TT	AA	AA	INTERGENIC			
SNP_42088_A_28443279	NC_021165.1	Ca_Kabuli_Chr06	28443279	CC	TT	TT	INTERGENIC			
SNP_42089_A_28443368	NC_021165.1	Ca_Kabuli_Chr06	28443368	GG	TT	TT	INTERGENIC			
SNP_42091_A_28443714	NC_021165.1	Ca_Kabuli_Chr06	28443714	TT	CC	CC	INTERGENIC			
SNP_42092_A_28443740	NC_021165.1	Ca_Kabuli_Chr06	28443740	AA	CC	CC	INTERGENIC			
SNP_42093_A_28443861	NC_021165.1	Ca_Kabuli_Chr06	28443861	CC	TT	TT	INTERGENIC			
SNP_42094_A_28443917	NC_021165.1	Ca_Kabuli_Chr06	28443917	AA	TT	TT	INTERGENIC			
SNP_42095_A_28443918	NC_021165.1	Ca_Kabuli_Chr06	28443918	TT	AA	AA	INTERGENIC			
SNP_42096_A_28444079	NC_021165.1	Ca_Kabuli_Chr06	28444079	CC	GG	GG	INTERGENIC			
SNP_42097_A_28444153	NC_021165.1	Ca_Kabuli_Chr06	28444153	CC	TT	TT	INTERGENIC			
SNP_42098_A_28444181	NC_021165.1	Ca_Kabuli_Chr06	28444181	GG	CC	CC	INTERGENIC			
SNP_42099_A_28444404	NC_021165.1	Ca_Kabuli_Chr06	28444404	GG	AA	AA	INTERGENIC			
SNP_42100_A_28444509	NC_021165.1	Ca_Kabuli_Chr06	28444509	AA	GG	GG	INTERGENIC			
SNP_42101_A_28444517	NC_021165.1	Ca_Kabuli_Chr06	28444517	CC	TT	TT	INTERGENIC			
SNP_42102_A_28444553	NC_021165.1	Ca_Kabuli_Chr06	28444553	AA	GG	GG	INTERGENIC			
SNP_42103_A_28444562	NC_021165.1	Ca_Kabuli_Chr06	28444562	AA	CC	CC	INTERGENIC			
SNP_42104_A_28444565	NC_021165.1	Ca_Kabuli_Chr06	28444565	CC	TT	TT	INTERGENIC			
SNP_42106_A_28444771	NC_021165.1	Ca_Kabuli_Chr06	28444771	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42107_A_28444985	NC_021165.1	Ca_Kabuli_Chr06	28444985	GG	AA	AA	INTERGENIC		
SNP_42108_A_28445089	NC_021165.1	Ca_Kabuli_Chr06	28445089	GG	TT	TT	INTERGENIC		
SNP_42109_A_28451493	NC_021165.1	Ca_Kabuli_Chr06	28451493	TT	AA	AA	DRR	101494608	F-box/kelch-repeat protein At3g06240-like
SNP_42110_A_28495983	NC_021165.1	Ca_Kabuli_Chr06	28495983	TT	CC	CC	INTRON	101496455	cysteine synthase-like
SNP_42111_A_28495997	NC_021165.1	Ca_Kabuli_Chr06	28495997	CC	TT	TT	INTRON	101496455	cysteine synthase-like
SNP_42112_A_28503449	NC_021165.1	Ca_Kabuli_Chr06	28503449	AA	GG	GG	URR	101496455	cysteine synthase-like
SNP_42114_A_28503574	NC_021165.1	Ca_Kabuli_Chr06	28503574	GG	AA	AA	URR	101496455	cysteine synthase-like
SNP_42115_A_28503750	NC_021165.1	Ca_Kabuli_Chr06	28503750	AA	GG	GG	URR	101496455	cysteine synthase-like
SNP_42116_A_28509462	NC_021165.1	Ca_Kabuli_Chr06	28509462	TT	GG	GG	INTERGENIC		
SNP_42117_A_28511308	NC_021165.1	Ca_Kabuli_Chr06	28511308	TT	GG	GG	INTERGENIC		
SNP_42118_A_28511348	NC_021165.1	Ca_Kabuli_Chr06	28511348	TT	AA	AA	INTERGENIC		
SNP_42119_A_28511349	NC_021165.1	Ca_Kabuli_Chr06	28511349	GG	TT	TT	INTERGENIC		
SNP_42120_A_28511406	NC_021165.1	Ca_Kabuli_Chr06	28511406	GG	AA	AA	INTERGENIC		
SNP_42121_A_28511416	NC_021165.1	Ca_Kabuli_Chr06	28511416	CC	TT	TT	INTERGENIC		
SNP_42122_A_28511437	NC_021165.1	Ca_Kabuli_Chr06	28511437	TT	CC	CC	INTERGENIC		
SNP_42123_A_28511442	NC_021165.1	Ca_Kabuli_Chr06	28511442	TT	CC	CC	INTERGENIC		
SNP_42124_A_28511443	NC_021165.1	Ca_Kabuli_Chr06	28511443	AA	GG	GG	INTERGENIC		
SNP_42125_A_28511465	NC_021165.1	Ca_Kabuli_Chr06	28511465	GG	AA	AA	INTERGENIC		
SNP_42127_A_28513487	NC_021165.1	Ca_Kabuli_Chr06	28513487	GG	TT	TT	INTERGENIC		
SNP_42128_A_28513491	NC_021165.1	Ca_Kabuli_Chr06	28513491	TT	CC	CC	INTERGENIC		
SNP_42129_A_28513522	NC_021165.1	Ca_Kabuli_Chr06	28513522	CC	AA	AA	INTERGENIC		
SNP_42132_A_28518347	NC_021165.1	Ca_Kabuli_Chr06	28518347	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42133_A_28520904	NC_021165.1	Ca_Kabuli_Chr06	28520904	TT	CC	CC	INTERGENIC		
SNP_42136_A_28521046	NC_021165.1	Ca_Kabuli_Chr06	28521046	CC	TT	TT	INTERGENIC		
SNP_42138_A_28521101	NC_021165.1	Ca_Kabuli_Chr06	28521101	TT	CC	CC	INTERGENIC		
SNP_42139_A_28521107	NC_021165.1	Ca_Kabuli_Chr06	28521107	TT	CC	CC	INTERGENIC		
SNP_42140_A_28521115	NC_021165.1	Ca_Kabuli_Chr06	28521115	GG	AA	AA	INTERGENIC		
SNP_42141_A_28521123	NC_021165.1	Ca_Kabuli_Chr06	28521123	CC	TT	TT	INTERGENIC		
SNP_42142_A_28521312	NC_021165.1	Ca_Kabuli_Chr06	28521312	GG	AA	AA	INTERGENIC		
SNP_42143_A_28521382	NC_021165.1	Ca_Kabuli_Chr06	28521382	AA	GG	GG	INTERGENIC		
SNP_42144_A_28521788	NC_021165.1	Ca_Kabuli_Chr06	28521788	AA	GG	GG	INTERGENIC		
SNP_42145_A_28537120	NC_021165.1	Ca_Kabuli_Chr06	28537120	CC	GG	GG	INTERGENIC		
SNP_42146_A_28537166	NC_021165.1	Ca_Kabuli_Chr06	28537166	AA	CC	CC	INTERGENIC		
SNP_42148_A_28546529	NC_021165.1	Ca_Kabuli_Chr06	28546529	CC	GG	GG	SYNONYMOUS_CODING	101488450	ribonuclease Ddl-like
SNP_42150_A_28637653	NC_021165.1	Ca_Kabuli_Chr06	28637653	CC	TT	TT	URR	101501089	alpha carbonic anhydrase 7-like
SNP_42151_A_28642366	NC_021165.1	Ca_Kabuli_Chr06	28642366	CC	TT	TT	INTERGENIC		
SNP_42152_A_28644615	NC_021165.1	Ca_Kabuli_Chr06	28644615	AA	GG	GG	INTERGENIC		
SNP_42153_A_28644671	NC_021165.1	Ca_Kabuli_Chr06	28644671	AA	TT	TT	INTERGENIC		
SNP_42154_A_28644675	NC_021165.1	Ca_Kabuli_Chr06	28644675	AA	TT	TT	INTERGENIC		
SNP_42155_A_28644764	NC_021165.1	Ca_Kabuli_Chr06	28644764	CC	GG	GG	INTERGENIC		
SNP_42156_A_28644775	NC_021165.1	Ca_Kabuli_Chr06	28644775	AA	GG	GG	INTERGENIC		
SNP_42157_A_28644912	NC_021165.1	Ca_Kabuli_Chr06	28644912	CC	TT	TT	INTERGENIC		
SNP_42158_A_28644977	NC_021165.1	Ca_Kabuli_Chr06	28644977	AA	TT	TT	INTERGENIC		
SNP_42159_A_28796614	NC_021165.1	Ca_Kabuli_Chr06	28796614	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42160_A_28802541	NC_021165.1	Ca_Kabuli_Chr06	28802541	AA	GG	GG	INTERGENIC		
SNP_42161_A_28821565	NC_021165.1	Ca_Kabuli_Chr06	28821565	CC	TT	TT	INTERGENIC		
SNP_42162_A_28821608	NC_021165.1	Ca_Kabuli_Chr06	28821608	TT	AA	AA	INTERGENIC		
SNP_42163_A_28821723	NC_021165.1	Ca_Kabuli_Chr06	28821723	TT	CC	CC	INTERGENIC		
SNP_42164_A_28821765	NC_021165.1	Ca_Kabuli_Chr06	28821765	TT	CC	CC	INTERGENIC		
SNP_42165_A_28821825	NC_021165.1	Ca_Kabuli_Chr06	28821825	TT	CC	CC	INTERGENIC		
SNP_42166_A_28821961	NC_021165.1	Ca_Kabuli_Chr06	28821961	GG	AA	AA	INTERGENIC		
SNP_42167_A_28821968	NC_021165.1	Ca_Kabuli_Chr06	28821968	TT	CC	CC	INTERGENIC		
SNP_42168_A_28821974	NC_021165.1	Ca_Kabuli_Chr06	28821974	CC	TT	TT	INTERGENIC		
SNP_42169_A_28821985	NC_021165.1	Ca_Kabuli_Chr06	28821985	CC	TT	TT	INTERGENIC		
SNP_42170_A_28821986	NC_021165.1	Ca_Kabuli_Chr06	28821986	AA	GG	GG	INTERGENIC		
SNP_42171_A_28822021	NC_021165.1	Ca_Kabuli_Chr06	28822021	TT	GG	GG	INTERGENIC		
SNP_42172_A_28822090	NC_021165.1	Ca_Kabuli_Chr06	28822090	AA	GG	GG	INTERGENIC		
SNP_42173_A_28822093	NC_021165.1	Ca_Kabuli_Chr06	28822093	AA	GG	GG	INTERGENIC		
SNP_42174_A_28822113	NC_021165.1	Ca_Kabuli_Chr06	28822113	GG	AA	AA	INTERGENIC		
SNP_42175_A_28822172	NC_021165.1	Ca_Kabuli_Chr06	28822172	TT	GG	GG	INTERGENIC		
SNP_42176_A_28822184	NC_021165.1	Ca_Kabuli_Chr06	28822184	AA	GG	GG	INTERGENIC		
SNP_42177_A_28822193	NC_021165.1	Ca_Kabuli_Chr06	28822193	AA	GG	GG	INTERGENIC		
SNP_42178_A_28822194	NC_021165.1	Ca_Kabuli_Chr06	28822194	TT	CC	CC	INTERGENIC		
SNP_42179_A_28825491	NC_021165.1	Ca_Kabuli_Chr06	28825491	TT	AA	AA	INTERGENIC		
SNP_42181_A_28878917	NC_021165.1	Ca_Kabuli_Chr06	28878917	TT	CC	CC	INTERGENIC		
SNP_42183_A_28996619	NC_021165.1	Ca_Kabuli_Chr06	28996619	AA	GG	GG	URR	101506550	protein N-lysine methyltransferase METTL21A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42184_A_29001375	NC_021165.1	Ca_Kabuli_Chr06	29001375	CC	TT	TT	INTERGENIC			
SNP_42185_A_29011331	NC_021165.1	Ca_Kabuli_Chr06	29011331	GG	TT	TT	INTERGENIC			
SNP_42186_A_29011381	NC_021165.1	Ca_Kabuli_Chr06	29011381	TT	CC	CC	INTERGENIC			
SNP_42187_A_29063216	NC_021165.1	Ca_Kabuli_Chr06	29063216	TT	CC	CC	INTERGENIC			
SNP_42188_A_29063220	NC_021165.1	Ca_Kabuli_Chr06	29063220	TT	CC	CC	INTERGENIC			
SNP_42189_A_29063269	NC_021165.1	Ca_Kabuli_Chr06	29063269	AA	GG	GG	INTERGENIC			
SNP_42190_A_29063418	NC_021165.1	Ca_Kabuli_Chr06	29063418	CC	AA	AA	INTERGENIC			
SNP_42191_A_29063428	NC_021165.1	Ca_Kabuli_Chr06	29063428	AA	GG	GG	INTERGENIC			
SNP_42192_A_29063581	NC_021165.1	Ca_Kabuli_Chr06	29063581	GG	AA	AA	INTERGENIC			
SNP_42193_A_29063583	NC_021165.1	Ca_Kabuli_Chr06	29063583	TT	CC	CC	INTERGENIC			
SNP_42194_A_29063807	NC_021165.1	Ca_Kabuli_Chr06	29063807	TT	CC	CC	INTERGENIC			
SNP_42195_A_29070943	NC_021165.1	Ca_Kabuli_Chr06	29070943	GG	AA	AA	INTERGENIC			
SNP_42196_A_29070944	NC_021165.1	Ca_Kabuli_Chr06	29070944	CC	TT	TT	INTERGENIC			
SNP_42197_A_29096597	NC_021165.1	Ca_Kabuli_Chr06	29096597	GG	AA	AA	URR	101507844	vacuolar protein sorting-associated protein 24 homolog 1	
SNP_42199_A_29151009	NC_021165.1	Ca_Kabuli_Chr06	29151009	AA	GG	GG	INTERGENIC			
SNP_42200_A_29164509	NC_021165.1	Ca_Kabuli_Chr06	29164509	AA	CC	CC	INTERGENIC			
SNP_42202_A_29177617	NC_021165.1	Ca_Kabuli_Chr06	29177617	AA	CC	CC	INTERGENIC			
SNP_42203_A_29177662	NC_021165.1	Ca_Kabuli_Chr06	29177662	AA	GG	GG	INTERGENIC			
SNP_42204_A_29177666	NC_021165.1	Ca_Kabuli_Chr06	29177666	AA	GG	GG	INTERGENIC			
SNP_42205_A_29177708	NC_021165.1	Ca_Kabuli_Chr06	29177708	AA	GG	GG	INTERGENIC			
SNP_42206_A_29177726	NC_021165.1	Ca_Kabuli_Chr06	29177726	AA	TT	GG	INTERGENIC			
SNP_42207_A_29177749	NC_021165.1	Ca_Kabuli_Chr06	29177749	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42208_A_29177772	NC_021165.1	Ca_Kabuli_Chr06	29177772	TT	CC	CC	INTERGENIC			
SNP_42209_A_29184943	NC_021165.1	Ca_Kabuli_Chr06	29184943	TT	CC	CC	INTERGENIC			
SNP_42210_A_29185102	NC_021165.1	Ca_Kabuli_Chr06	29185102	GG	AA	AA	INTERGENIC			
SNP_42211_A_29185197	NC_021165.1	Ca_Kabuli_Chr06	29185197	AA	TT	TT	INTERGENIC			
SNP_42212_A_29185203	NC_021165.1	Ca_Kabuli_Chr06	29185203	TT	CC	CC	INTERGENIC			
SNP_42213_A_29185206	NC_021165.1	Ca_Kabuli_Chr06	29185206	GG	AA	AA	INTERGENIC			
SNP_42214_A_29185209	NC_021165.1	Ca_Kabuli_Chr06	29185209	AA	GG	GG	INTERGENIC			
SNP_42215_A_29185224	NC_021165.1	Ca_Kabuli_Chr06	29185224	TT	AA	AA	INTERGENIC			
SNP_42216_A_29185239	NC_021165.1	Ca_Kabuli_Chr06	29185239	CC	TT	TT	INTERGENIC			
SNP_42217_A_29185240	NC_021165.1	Ca_Kabuli_Chr06	29185240	CC	TT	TT	INTERGENIC			
SNP_42218_A_29185241	NC_021165.1	Ca_Kabuli_Chr06	29185241	AA	TT	TT	INTERGENIC			
SNP_42219_A_29185257	NC_021165.1	Ca_Kabuli_Chr06	29185257	TT	AA	AA	INTERGENIC			
SNP_42220_A_29185291	NC_021165.1	Ca_Kabuli_Chr06	29185291	GG	CC	CC	INTERGENIC			
SNP_42221_A_29185292	NC_021165.1	Ca_Kabuli_Chr06	29185292	CC	TT	TT	INTERGENIC			
SNP_42222_A_29185318	NC_021165.1	Ca_Kabuli_Chr06	29185318	AA	GG	GG	INTERGENIC			
SNP_42223_A_29185479	NC_021165.1	Ca_Kabuli_Chr06	29185479	AA	CC	CC	INTERGENIC			
SNP_42224_A_29190960	NC_021165.1	Ca_Kabuli_Chr06	29190960	TT	GG	GG	INTERGENIC			
SNP_42225_A_29194241	NC_021165.1	Ca_Kabuli_Chr06	29194241	AA	TT	TT	INTERGENIC			
SNP_42226_A_29194244	NC_021165.1	Ca_Kabuli_Chr06	29194244	TT	GG	GG	INTERGENIC			
SNP_42228_A_29292996	NC_021165.1	Ca_Kabuli_Chr06	29292996	CC	GG	GG	INTERGENIC			
SNP_42229_A_29296010	NC_021165.1	Ca_Kabuli_Chr06	29296010	AA	GG	GG	INTERGENIC			
SNP_42230_A_29306404	NC_021165.1	Ca_Kabuli_Chr06	29306404	TT	GG	GG	INTRON	101513622	protein argonaute 5	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42231_A_29411333	NC_021165.1	Ca_Kabuli_Chr06	29411333	GG	AA	AA	INTERGENIC			
SNP_42232_A_29488522	NC_021165.1	Ca_Kabuli_Chr06	29488522	TT	GG	GG	INTERGENIC			
SNP_42233_A_29488569	NC_021165.1	Ca_Kabuli_Chr06	29488569	CC	AA	AA	INTERGENIC			
SNP_42234_A_29488581	NC_021165.1	Ca_Kabuli_Chr06	29488581	GG	AA	AA	INTERGENIC			
SNP_42235_A_29488620	NC_021165.1	Ca_Kabuli_Chr06	29488620	AA	CC	CC	INTERGENIC			
SNP_42236_A_29488782	NC_021165.1	Ca_Kabuli_Chr06	29488782	TT	CC	CC	INTERGENIC			
SNP_42237_A_29492078	NC_021165.1	Ca_Kabuli_Chr06	29492078	AA	GG	GG	INTERGENIC			
SNP_42238_A_29500141	NC_021165.1	Ca_Kabuli_Chr06	29500141	AA	GG	GG	INTERGENIC			
SNP_42239_A_29500162	NC_021165.1	Ca_Kabuli_Chr06	29500162	TT	CC	CC	INTERGENIC			
SNP_42240_A_29500192	NC_021165.1	Ca_Kabuli_Chr06	29500192	TT	CC	CC	INTERGENIC			
SNP_42241_A_29500787	NC_021165.1	Ca_Kabuli_Chr06	29500787	GG	AA	AA	INTERGENIC			
SNP_42242_A_29500802	NC_021165.1	Ca_Kabuli_Chr06	29500802	AA	GG	GG	INTERGENIC			
SNP_42243_A_29523568	NC_021165.1	Ca_Kabuli_Chr06	29523568	GG	AA	AA	INTERGENIC			
SNP_42244_A_29523593	NC_021165.1	Ca_Kabuli_Chr06	29523593	TT	GG	GG	INTERGENIC			
SNP_42245_A_29523595	NC_021165.1	Ca_Kabuli_Chr06	29523595	AA	GG	GG	INTERGENIC			
SNP_42246_A_29523596	NC_021165.1	Ca_Kabuli_Chr06	29523596	GG	AA	AA	INTERGENIC			
SNP_42247_A_29536077	NC_021165.1	Ca_Kabuli_Chr06	29536077	AA	GG	GG	INTERGENIC			
SNP_42248_A_29536096	NC_021165.1	Ca_Kabuli_Chr06	29536096	CC	TT	TT	INTERGENIC			
SNP_42249_A_29536193	NC_021165.1	Ca_Kabuli_Chr06	29536193	CC	TT	TT	INTERGENIC			
SNP_42250_A_29536251	NC_021165.1	Ca_Kabuli_Chr06	29536251	CC	TT	TT	INTERGENIC			
SNP_42251_A_29536603	NC_021165.1	Ca_Kabuli_Chr06	29536603	TT	CC	CC	INTERGENIC			
SNP_42252_A_29557490	NC_021165.1	Ca_Kabuli_Chr06	29557490	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42253_A_29594300	NC_021165.1	Ca_Kabuli_Chr06	29594300	TT	GG	GG	INTERGENIC			
SNP_42254_A_29599556	NC_021165.1	Ca_Kabuli_Chr06	29599556	TT	CC	CC	INTERGENIC			
SNP_42255_A_29599601	NC_021165.1	Ca_Kabuli_Chr06	29599601	AA	CC	CC	INTERGENIC			
SNP_42256_A_29629207	NC_021165.1	Ca_Kabuli_Chr06	29629207	TT	CC	CC	INTERGENIC			
SNP_42257_A_29629390	NC_021165.1	Ca_Kabuli_Chr06	29629390	GG	CC	CC	INTERGENIC			
SNP_42258_A_29629413	NC_021165.1	Ca_Kabuli_Chr06	29629413	TT	CC	CC	INTERGENIC			
SNP_42259_A_29629697	NC_021165.1	Ca_Kabuli_Chr06	29629697	GG	TT	TT	INTERGENIC			
SNP_42260_A_29629702	NC_021165.1	Ca_Kabuli_Chr06	29629702	CC	AA	AA	INTERGENIC			
SNP_42263_A_29669062	NC_021165.1	Ca_Kabuli_Chr06	29669062	CC	TT	TT	INTERGENIC			
SNP_42264_A_29669096	NC_021165.1	Ca_Kabuli_Chr06	29669096	GG	AA	AA	INTERGENIC			
SNP_42265_A_29669192	NC_021165.1	Ca_Kabuli_Chr06	29669192	GG	AA	AA	INTERGENIC			
SNP_42266_A_29669216	NC_021165.1	Ca_Kabuli_Chr06	29669216	CC	AA	AA	INTERGENIC			
SNP_42267_A_29686117	NC_021165.1	Ca_Kabuli_Chr06	29686117	AA	GG	GG	INTERGENIC			
SNP_42268_A_29686168	NC_021165.1	Ca_Kabuli_Chr06	29686168	AA	GG	GG	INTERGENIC			
SNP_42269_A_29686449	NC_021165.1	Ca_Kabuli_Chr06	29686449	TT	CC	CC	INTERGENIC			
SNP_42270_A_29686562	NC_021165.1	Ca_Kabuli_Chr06	29686562	TT	CC	CC	INTERGENIC			
SNP_42271_A_29686595	NC_021165.1	Ca_Kabuli_Chr06	29686595	AA	CC	CC	INTERGENIC			
SNP_42272_A_29687529	NC_021165.1	Ca_Kabuli_Chr06	29687529	AA	GG	GG	INTERGENIC			
SNP_42273_A_29710989	NC_021165.1	Ca_Kabuli_Chr06	29710989	AA	GG	GG	INTERGENIC			
SNP_42274_A_29711060	NC_021165.1	Ca_Kabuli_Chr06	29711060	AA	CC	CC	INTERGENIC			
SNP_42275_A_29711320	NC_021165.1	Ca_Kabuli_Chr06	29711320	AA	GG	GG	INTERGENIC			
SNP_42276_A_29711452	NC_021165.1	Ca_Kabuli_Chr06	29711452	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42277_A_29712995	NC_021165.1	Ca_Kabuli_Chr06	29712995	CC	GG	GG	INTERGENIC			
SNP_42278_A_29713692	NC_021165.1	Ca_Kabuli_Chr06	29713692	CC	TT	TT	INTERGENIC			
SNP_42279_A_29713776	NC_021165.1	Ca_Kabuli_Chr06	29713776	TT	GG	GG	INTERGENIC			
SNP_42280_A_29713894	NC_021165.1	Ca_Kabuli_Chr06	29713894	AA	GG	GG	INTERGENIC			
SNP_42281_A_29715995	NC_021165.1	Ca_Kabuli_Chr06	29715995	AA	CC	CC	INTERGENIC			
SNP_42282_A_29716293	NC_021165.1	Ca_Kabuli_Chr06	29716293	TT	GG	GG	INTERGENIC			
SNP_42283_A_29716436	NC_021165.1	Ca_Kabuli_Chr06	29716436	TT	CC	CC	INTERGENIC			
SNP_42284_A_29724632	NC_021165.1	Ca_Kabuli_Chr06	29724632	CC	GG	GG	INTERGENIC			
SNP_42285_A_29724819	NC_021165.1	Ca_Kabuli_Chr06	29724819	AA	GG	GG	INTERGENIC			
SNP_42286_A_29724838	NC_021165.1	Ca_Kabuli_Chr06	29724838	TT	CC	CC	INTERGENIC			
SNP_42287_A_29724840	NC_021165.1	Ca_Kabuli_Chr06	29724840	GG	AA	AA	INTERGENIC			
SNP_42288_A_29724848	NC_021165.1	Ca_Kabuli_Chr06	29724848	CC	TT	TT	INTERGENIC			
SNP_42289_A_29724909	NC_021165.1	Ca_Kabuli_Chr06	29724909	AA	TT	TT	INTERGENIC			
SNP_42290_A_29731905	NC_021165.1	Ca_Kabuli_Chr06	29731905	AA	TT	TT	INTERGENIC			
SNP_42291_A_29769572	NC_021165.1	Ca_Kabuli_Chr06	29769572	TT	AA	AA	INTERGENIC			
SNP_42292_A_29784871	NC_021165.1	Ca_Kabuli_Chr06	29784871	GG	TT	TT	INTERGENIC			
SNP_42293_A_29785043	NC_021165.1	Ca_Kabuli_Chr06	29785043	AA	TT	TT	INTERGENIC			
SNP_42294_A_29785057	NC_021165.1	Ca_Kabuli_Chr06	29785057	TT	GG	GG	INTERGENIC			
SNP_42295_A_29785080	NC_021165.1	Ca_Kabuli_Chr06	29785080	CC	TT	TT	INTERGENIC			
SNP_42296_A_29785141	NC_021165.1	Ca_Kabuli_Chr06	29785141	TT	GG	GG	INTERGENIC			
SNP_42297_A_29785156	NC_021165.1	Ca_Kabuli_Chr06	29785156	AA	TT	TT	INTERGENIC			
SNP_42298_A_29785193	NC_021165.1	Ca_Kabuli_Chr06	29785193	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42299_A_29785200	NC_021165.1	Ca_Kabuli_Chr06	29785200	GG	AA	AA	INTERGENIC			
SNP_42300_A_29785214	NC_021165.1	Ca_Kabuli_Chr06	29785214	TT	AA	AA	INTERGENIC			
SNP_42301_A_29785216	NC_021165.1	Ca_Kabuli_Chr06	29785216	AA	CC	CC	INTERGENIC			
SNP_42302_A_29833269	NC_021165.1	Ca_Kabuli_Chr06	29833269	GG	TT	TT	INTERGENIC			
SNP_42304_A_29886808	NC_021165.1	Ca_Kabuli_Chr06	29886808	GG	TT	TT	INTERGENIC			
SNP_42305_A_29889106	NC_021165.1	Ca_Kabuli_Chr06	29889106	TT	CC	CC	INTERGENIC			
SNP_42306_A_29909325	NC_021165.1	Ca_Kabuli_Chr06	29909325	GG	TT	TT	INTERGENIC			
SNP_42307_A_29909535	NC_021165.1	Ca_Kabuli_Chr06	29909535	TT	CC	CC	INTERGENIC			
SNP_42308_A_29982269	NC_021165.1	Ca_Kabuli_Chr06	29982269	AA	GG	GG	URR	101499092	recQ-mediated genome instability protein 2	
SNP_42309_A_30041035	NC_021165.1	Ca_Kabuli_Chr06	30041035	GG	AA	AA	INTERGENIC			
SNP_42311_A_30129370	NC_021165.1	Ca_Kabuli_Chr06	30129370	TT	GG	GG	INTERGENIC			
SNP_42312_A_30155732	NC_021165.1	Ca_Kabuli_Chr06	30155732	CC	TT	TT	INTERGENIC			
SNP_42313_A_30155934	NC_021165.1	Ca_Kabuli_Chr06	30155934	GG	AA	AA	INTERGENIC			
SNP_42314_A_30165903	NC_021165.1	Ca_Kabuli_Chr06	30165903	TT	CC	CC	INTERGENIC			
SNP_42315_A_30165916	NC_021165.1	Ca_Kabuli_Chr06	30165916	CC	TT	TT	INTERGENIC			
SNP_42316_A_30165925	NC_021165.1	Ca_Kabuli_Chr06	30165925	TT	CC	CC	INTERGENIC			
SNP_42317_A_30165937	NC_021165.1	Ca_Kabuli_Chr06	30165937	GG	AA	AA	INTERGENIC			
SNP_42318_A_30166250	NC_021165.1	Ca_Kabuli_Chr06	30166250	GG	AA	AA	INTERGENIC			
SNP_42319_A_30166255	NC_021165.1	Ca_Kabuli_Chr06	30166255	AA	GG	GG	INTERGENIC			
SNP_42320_A_30166256	NC_021165.1	Ca_Kabuli_Chr06	30166256	AA	GG	GG	INTERGENIC			
SNP_42321_A_30167312	NC_021165.1	Ca_Kabuli_Chr06	30167312	AA	GG	GG	INTERGENIC			
SNP_42322_A_30167315	NC_021165.1	Ca_Kabuli_Chr06	30167315	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42323_A_30167328	NC_021165.1	Ca_Kabuli_Chr06	30167328	TT	CC	CC	INTERGENIC			
SNP_42324_A_30167346	NC_021165.1	Ca_Kabuli_Chr06	30167346	GG	AA	AA	INTERGENIC			
SNP_42325_A_30167349	NC_021165.1	Ca_Kabuli_Chr06	30167349	TT	CC	CC	INTERGENIC			
SNP_42326_A_30167394	NC_021165.1	Ca_Kabuli_Chr06	30167394	TT	CC	CC	INTERGENIC			
SNP_42327_A_30256821	NC_021165.1	Ca_Kabuli_Chr06	30256821	GG	CC	CC	INTERGENIC			
SNP_42328_A_30264982	NC_021165.1	Ca_Kabuli_Chr06	30264982	AA	CC	CC	INTERGENIC			
SNP_42329_A_30265027	NC_021165.1	Ca_Kabuli_Chr06	30265027	CC	TT	TT	INTERGENIC			
SNP_42330_A_30265326	NC_021165.1	Ca_Kabuli_Chr06	30265326	AA	TT	TT	INTERGENIC			
SNP_42331_A_30290728	NC_021165.1	Ca_Kabuli_Chr06	30290728	GG	AA	AA	INTERGENIC			
SNP_42332_A_30307939	NC_021165.1	Ca_Kabuli_Chr06	30307939	CC	TT	TT	INTERGENIC			
SNP_42333_A_30367717	NC_021165.1	Ca_Kabuli_Chr06	30367717	GG	CC	CC	INTERGENIC			
SNP_42334_A_30383144	NC_021165.1	Ca_Kabuli_Chr06	30383144	GG	AA	AA	URR	101494924		uncharacterized LOC101494924
SNP_42335_A_30425177	NC_021165.1	Ca_Kabuli_Chr06	30425177	AA	GG	GG	INTERGENIC			
SNP_42336_A_30432142	NC_021165.1	Ca_Kabuli_Chr06	30432142	GG	AA	AA	INTERGENIC			
SNP_42338_A_30480933	NC_021165.1	Ca_Kabuli_Chr06	30480933	TT	AA	AA	INTERGENIC			
SNP_42339_A_30501639	NC_021165.1	Ca_Kabuli_Chr06	30501639	CC	TT	TT	INTERGENIC			
SNP_42340_A_30525094	NC_021165.1	Ca_Kabuli_Chr06	30525094	TT	CC	CC	DRR	101495258		Unknown function
SNP_42341_A_30540030	NC_021165.1	Ca_Kabuli_Chr06	30540030	TT	CC	CC	DRR	101507212		tRNA dimethylallyltransferase 2
SNP_42342_A_30586756	NC_021165.1	Ca_Kabuli_Chr06	30586756	AA	GG	GG	INTERGENIC			
SNP_42343_A_30587869	NC_021165.1	Ca_Kabuli_Chr06	30587869	AA	GG	GG	INTERGENIC			
SNP_42344_A_30587873	NC_021165.1	Ca_Kabuli_Chr06	30587873	GG	CC	CC	INTERGENIC			
SNP_42345_A_30587874	NC_021165.1	Ca_Kabuli_Chr06	30587874	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42347_A_30678707	NC_021165.1	Ca_Kabuli_Chr06	30678707	AA	GG	GG	URR	101509758	elongation factor 2-like
SNP_42348_A_30678756	NC_021165.1	Ca_Kabuli_Chr06	30678756	CC	TT	TT	URR	101509758	elongation factor 2-like
SNP_42351_A_30678878	NC_021165.1	Ca_Kabuli_Chr06	30678878	TT	GG	GG	URR	101509758	elongation factor 2-like
SNP_42352_A_30678891	NC_021165.1	Ca_Kabuli_Chr06	30678891	TT	GG	GG	URR	101509758	elongation factor 2-like
SNP_42353_A_30678902	NC_021165.1	Ca_Kabuli_Chr06	30678902	AA	GG	GG	URR	101509758	elongation factor 2-like
SNP_42354_A_30678990	NC_021165.1	Ca_Kabuli_Chr06	30678990	AA	TT	TT	URR	101509758	elongation factor 2-like
SNP_42355_A_30691160	NC_021165.1	Ca_Kabuli_Chr06	30691160	TT	CC	CC	INTERGENIC		
SNP_42356_A_30691319	NC_021165.1	Ca_Kabuli_Chr06	30691319	CC	AA	AA	INTERGENIC		
SNP_42357_A_30752297	NC_021165.1	Ca_Kabuli_Chr06	30752297	AA	GG	GG	INTERGENIC		
SNP_42358_A_30752474	NC_021165.1	Ca_Kabuli_Chr06	30752474	AA	TT	TT	INTERGENIC		
SNP_42359_A_30752477	NC_021165.1	Ca_Kabuli_Chr06	30752477	TT	AA	AA	INTERGENIC		
SNP_42360_A_30752633	NC_021165.1	Ca_Kabuli_Chr06	30752633	AA	CC	CC	INTERGENIC		
SNP_42361_A_30752647	NC_021165.1	Ca_Kabuli_Chr06	30752647	AA	TT	TT	INTERGENIC		
SNP_42362_A_30752670	NC_021165.1	Ca_Kabuli_Chr06	30752670	AA	CC	CC	INTERGENIC		
SNP_42363_A_30752677	NC_021165.1	Ca_Kabuli_Chr06	30752677	AA	CC	CC	INTERGENIC		
SNP_42364_A_30752685	NC_021165.1	Ca_Kabuli_Chr06	30752685	AA	GG	GG	INTERGENIC		
SNP_42365_A_30752704	NC_021165.1	Ca_Kabuli_Chr06	30752704	AA	GG	GG	INTERGENIC		
SNP_42366_A_30752746	NC_021165.1	Ca_Kabuli_Chr06	30752746	GG	AA	AA	INTERGENIC		
SNP_42367_A_30753040	NC_021165.1	Ca_Kabuli_Chr06	30753040	CC	AA	AA	INTERGENIC		
SNP_42368_A_30753098	NC_021165.1	Ca_Kabuli_Chr06	30753098	TT	CC	CC	INTERGENIC		
SNP_42369_A_30753103	NC_021165.1	Ca_Kabuli_Chr06	30753103	AA	GG	GG	INTERGENIC		
SNP_42370_A_30779389	NC_021165.1	Ca_Kabuli_Chr06	30779389	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42371_A_30779809	NC_021165.1	Ca_Kabuli_Chr06	30779809	GG	AA	AA	INTERGENIC			
SNP_42372_A_30803262	NC_021165.1	Ca_Kabuli_Chr06	30803262	TT	CC	CC	INTERGENIC			
SNP_42374_A_30900446	NC_021165.1	Ca_Kabuli_Chr06	30900446	AA	TT	TT	INTERGENIC			
SNP_42376_A_30933743	NC_021165.1	Ca_Kabuli_Chr06	30933743	TT	CC	CC	INTERGENIC			
SNP_42377_A_30988884	NC_021165.1	Ca_Kabuli_Chr06	30988884	CC	TT	TT	INTERGENIC			
SNP_42378_A_31033780	NC_021165.1	Ca_Kabuli_Chr06	31033780	TT	CC	CC	INTRON	101492575		rho GTPase-activating protein 1
SNP_42379_A_31096873	NC_021165.1	Ca_Kabuli_Chr06	31096873	AA	GG	GG	INTERGENIC			
SNP_42380_A_31097018	NC_021165.1	Ca_Kabuli_Chr06	31097018	CC	TT	TT	INTERGENIC			
SNP_42381_A_31097043	NC_021165.1	Ca_Kabuli_Chr06	31097043	TT	CC	CC	INTERGENIC			
SNP_42382_A_31097088	NC_021165.1	Ca_Kabuli_Chr06	31097088	GG	TT	TT	INTERGENIC			
SNP_42383_A_31097110	NC_021165.1	Ca_Kabuli_Chr06	31097110	GG	TT	TT	INTERGENIC			
SNP_42385_A_31097195	NC_021165.1	Ca_Kabuli_Chr06	31097195	CC	GG	GG	INTERGENIC			
SNP_42386_A_31097321	NC_021165.1	Ca_Kabuli_Chr06	31097321	GG	AA	AA	INTERGENIC			
SNP_42387_A_31097352	NC_021165.1	Ca_Kabuli_Chr06	31097352	GG	AA	AA	INTERGENIC			
SNP_42388_A_31097404	NC_021165.1	Ca_Kabuli_Chr06	31097404	TT	AA	AA	INTERGENIC			
SNP_42389_A_31097425	NC_021165.1	Ca_Kabuli_Chr06	31097425	AA	GG	GG	INTERGENIC			
SNP_42390_A_31097492	NC_021165.1	Ca_Kabuli_Chr06	31097492	TT	CC	CC	INTERGENIC			
SNP_42391_A_31097583	NC_021165.1	Ca_Kabuli_Chr06	31097583	GG	CC	CC	INTERGENIC			
SNP_42392_A_31097617	NC_021165.1	Ca_Kabuli_Chr06	31097617	CC	TT	TT	INTERGENIC			
SNP_42393_A_31097688	NC_021165.1	Ca_Kabuli_Chr06	31097688	TT	GG	GG	INTERGENIC			
SNP_42395_A_31099641	NC_021165.1	Ca_Kabuli_Chr06	31099641	TT	CC	CC	INTERGENIC			
SNP_42396_A_31121996	NC_021165.1	Ca_Kabuli_Chr06	31121996	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42397_A_31123575	NC_021165.1	Ca_Kabuli_Chr06	31123575	TT	CC	CC	INTERGENIC		
SNP_42398_A_31131495	NC_021165.1	Ca_Kabuli_Chr06	31131495	GG	AA	AA	INTERGENIC		
SNP_42400_A_31132481	NC_021165.1	Ca_Kabuli_Chr06	31132481	TT	CC	CC	INTERGENIC		
SNP_42401_A_31162916	NC_021165.1	Ca_Kabuli_Chr06	31162916	GG	AA	AA	INTERGENIC		
SNP_42402_A_31163108	NC_021165.1	Ca_Kabuli_Chr06	31163108	AA	GG	GG	INTERGENIC		
SNP_42403_A_31163158	NC_021165.1	Ca_Kabuli_Chr06	31163158	CC	AA	AA	INTERGENIC		
SNP_42404_A_31163699	NC_021165.1	Ca_Kabuli_Chr06	31163699	AA	GG	GG	INTERGENIC		
SNP_42405_A_31163855	NC_021165.1	Ca_Kabuli_Chr06	31163855	TT	GG	GG	INTERGENIC		
SNP_42406_A_31168606	NC_021165.1	Ca_Kabuli_Chr06	31168606	GG	TT	TT	DRR	101490089	uncharacterized LOC101490089
SNP_42407_A_31168649	NC_021165.1	Ca_Kabuli_Chr06	31168649	TT	GG	GG	DRR	101490089	uncharacterized LOC101490089
SNP_42408_A_31168674	NC_021165.1	Ca_Kabuli_Chr06	31168674	TT	CC	CC	DRR	101490089	uncharacterized LOC101490089
SNP_42409_A_31168835	NC_021165.1	Ca_Kabuli_Chr06	31168835	TT	CC	CC	DRR	101490089	uncharacterized LOC101490089
SNP_42410_A_31168838	NC_021165.1	Ca_Kabuli_Chr06	31168838	TT	AA	AA	DRR	101490089	uncharacterized LOC101490089
SNP_42411_A_31168875	NC_021165.1	Ca_Kabuli_Chr06	31168875	CC	AA	AA	DRR	101490089	uncharacterized LOC101490089
SNP_42412_A_31168902	NC_021165.1	Ca_Kabuli_Chr06	31168902	TT	AA	AA	NON_SYNONYMOUS_CODING	101490089	uncharacterized LOC101490089
SNP_42413_A_31168932	NC_021165.1	Ca_Kabuli_Chr06	31168932	GG	AA	AA	NON_SYNONYMOUS_CODING	101490089	uncharacterized LOC101490089
SNP_42414_A_31169006	NC_021165.1	Ca_Kabuli_Chr06	31169006	CC	AA	AA	SYNONYMOUS_CODING	101490089	uncharacterized LOC101490089
SNP_42415_A_31169044	NC_021165.1	Ca_Kabuli_Chr06	31169044	AA	CC	CC	NON_SYNONYMOUS_CODING	101490089	uncharacterized LOC101490089
SNP_42416_A_31169150	NC_021165.1	Ca_Kabuli_Chr06	31169150	TT	CC	CC	INTRON	101490089	uncharacterized LOC101490089
SNP_42417_A_31169161	NC_021165.1	Ca_Kabuli_Chr06	31169161	AA	GG	GG	INTRON	101490089	uncharacterized LOC101490089
SNP_42418_A_31184208	NC_021165.1	Ca_Kabuli_Chr06	31184208	CC	GG	GG	INTERGENIC		
SNP_42419_A_31184218	NC_021165.1	Ca_Kabuli_Chr06	31184218	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42420_A_31184278	NC_021165.1	Ca_Kabuli_Chr06	31184278	AA	GG	GG	INTERGENIC			
SNP_42421_A_31187319	NC_021165.1	Ca_Kabuli_Chr06	31187319	TT	CC	CC	INTERGENIC			
SNP_42422_A_31187320	NC_021165.1	Ca_Kabuli_Chr06	31187320	GG	AA	AA	INTERGENIC			
SNP_42423_A_31187332	NC_021165.1	Ca_Kabuli_Chr06	31187332	GG	AA	AA	INTERGENIC			
SNP_42424_A_31187337	NC_021165.1	Ca_Kabuli_Chr06	31187337	CC	TT	TT	INTERGENIC			
SNP_42425_A_31187362	NC_021165.1	Ca_Kabuli_Chr06	31187362	GG	TT	TT	INTERGENIC			
SNP_42426_A_31187367	NC_021165.1	Ca_Kabuli_Chr06	31187367	TT	AA	AA	INTERGENIC			
SNP_42427_A_31187391	NC_021165.1	Ca_Kabuli_Chr06	31187391	GG	AA	AA	INTERGENIC			
SNP_42428_A_31187409	NC_021165.1	Ca_Kabuli_Chr06	31187409	AA	GG	GG	INTERGENIC			
SNP_42429_A_31187434	NC_021165.1	Ca_Kabuli_Chr06	31187434	AA	CC	CC	INTERGENIC			
SNP_42430_A_31187470	NC_021165.1	Ca_Kabuli_Chr06	31187470	CC	GG	GG	INTERGENIC			
SNP_42431_A_31187507	NC_021165.1	Ca_Kabuli_Chr06	31187507	TT	CC	CC	INTERGENIC			
SNP_42432_A_31187584	NC_021165.1	Ca_Kabuli_Chr06	31187584	AA	TT	TT	INTERGENIC			
SNP_42433_A_31187773	NC_021165.1	Ca_Kabuli_Chr06	31187773	TT	CC	CC	INTERGENIC			
SNP_42434_A_31187801	NC_021165.1	Ca_Kabuli_Chr06	31187801	GG	TT	TT	INTERGENIC			
SNP_42435_A_31187822	NC_021165.1	Ca_Kabuli_Chr06	31187822	CC	TT	TT	INTERGENIC			
SNP_42436_A_31187860	NC_021165.1	Ca_Kabuli_Chr06	31187860	CC	TT	TT	INTERGENIC			
SNP_42437_A_31187880	NC_021165.1	Ca_Kabuli_Chr06	31187880	GG	AA	AA	INTERGENIC			
SNP_42438_A_31220205	NC_021165.1	Ca_Kabuli_Chr06	31220205	CC	TT	TT	URR	101497878	NAC domain-containing protein 90	
SNP_42439_A_31292823	NC_021165.1	Ca_Kabuli_Chr06	31292823	TT	AA	AA	INTERGENIC			
SNP_42440_A_31293638	NC_021165.1	Ca_Kabuli_Chr06	31293638	CC	TT	TT	INTERGENIC			
SNP_42441_A_31293947	NC_021165.1	Ca_Kabuli_Chr06	31293947	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42442_A_31293959	NC_021165.1	Ca_Kabuli_Chr06	31293959	GG	AA	AA	INTERGENIC		
SNP_42443_A_31324730	NC_021165.1	Ca_Kabuli_Chr06	31324730	CC	TT	TT	INTRON	id145063	Unknown function
SNP_42444_A_31334725	NC_021165.1	Ca_Kabuli_Chr06	31334725	TT	AA	AA	INTERGENIC		
SNP_42446_A_31370847	NC_021165.1	Ca_Kabuli_Chr06	31370847	TT	AA	AA	INTERGENIC		
SNP_42447_A_31371502	NC_021165.1	Ca_Kabuli_Chr06	31371502	GG	AA	AA	INTERGENIC		
SNP_42448_A_31371504	NC_021165.1	Ca_Kabuli_Chr06	31371504	AA	GG	GG	INTERGENIC		
SNP_42449_A_31371891	NC_021165.1	Ca_Kabuli_Chr06	31371891	CC	TT	TT	INTERGENIC		
SNP_42450_A_31371897	NC_021165.1	Ca_Kabuli_Chr06	31371897	TT	GG	GG	INTERGENIC		
SNP_42451_A_31372243	NC_021165.1	Ca_Kabuli_Chr06	31372243	TT	CC	CC	INTERGENIC		
SNP_42452_A_31372244	NC_021165.1	Ca_Kabuli_Chr06	31372244	AA	GG	GG	INTERGENIC		
SNP_42453_A_31372266	NC_021165.1	Ca_Kabuli_Chr06	31372266	TT	CC	CC	INTERGENIC		
SNP_42454_A_31372269	NC_021165.1	Ca_Kabuli_Chr06	31372269	AA	GG	GG	INTERGENIC		
SNP_42455_A_31372328	NC_021165.1	Ca_Kabuli_Chr06	31372328	AA	CC	CC	INTERGENIC		
SNP_42456_A_31372339	NC_021165.1	Ca_Kabuli_Chr06	31372339	CC	TT	TT	INTERGENIC		
SNP_42457_A_31372348	NC_021165.1	Ca_Kabuli_Chr06	31372348	AA	GG	GG	INTERGENIC		
SNP_42458_A_31372378	NC_021165.1	Ca_Kabuli_Chr06	31372378	CC	TT	TT	INTERGENIC		
SNP_42459_A_31372398	NC_021165.1	Ca_Kabuli_Chr06	31372398	AA	GG	GG	INTERGENIC		
SNP_42461_A_31429151	NC_021165.1	Ca_Kabuli_Chr06	31429151	GG	AA	AA	INTERGENIC		
SNP_42462_A_31430929	NC_021165.1	Ca_Kabuli_Chr06	31430929	GG	CC	CC	NON_SYNONYMOUS_CODING	101491376	uncharacterized LOC101491376
SNP_42463_A_31431154	NC_021165.1	Ca_Kabuli_Chr06	31431154	AA	GG	GG	NON_SYNONYMOUS_CODING	101491376	uncharacterized LOC101491376
SNP_42464_A_31431219	NC_021165.1	Ca_Kabuli_Chr06	31431219	GG	AA	AA	INTRON	101491376	uncharacterized LOC101491376
SNP_42465_A_31431602	NC_021165.1	Ca_Kabuli_Chr06	31431602	GG	AA	AA	URR	101491376	uncharacterized LOC101491376

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42466_A_31472543	NC_021165.1	Ca_Kabuli_Chr06	31472543	TT	CC	CC	INTERGENIC			
SNP_42467_A_31489091	NC_021165.1	Ca_Kabuli_Chr06	31489091	AA	CC	CC	INTERGENIC			
SNP_42468_A_31502632	NC_021165.1	Ca_Kabuli_Chr06	31502632	TT	CC	CC	INTERGENIC			
SNP_42469_A_31502644	NC_021165.1	Ca_Kabuli_Chr06	31502644	CC	TT	TT	INTERGENIC			
SNP_42470_A_31535826	NC_021165.1	Ca_Kabuli_Chr06	31535826	CC	TT	TT	INTERGENIC			
SNP_42471_A_31545838	NC_021165.1	Ca_Kabuli_Chr06	31545838	AA	GG	GG	INTERGENIC			
SNP_42472_A_31585254	NC_021165.1	Ca_Kabuli_Chr06	31585254	CC	AA	AA	INTERGENIC			
SNP_42473_A_31604832	NC_021165.1	Ca_Kabuli_Chr06	31604832	GG	AA	AA	INTERGENIC			
SNP_42474_A_31604842	NC_021165.1	Ca_Kabuli_Chr06	31604842	TT	AA	AA	INTERGENIC			
SNP_42475_A_31604851	NC_021165.1	Ca_Kabuli_Chr06	31604851	AA	GG	GG	INTERGENIC			
SNP_42476_A_31604889	NC_021165.1	Ca_Kabuli_Chr06	31604889	AA	GG	GG	INTERGENIC			
SNP_42477_A_31608175	NC_021165.1	Ca_Kabuli_Chr06	31608175	AA	TT	TT	INTERGENIC			
SNP_42478_A_31608176	NC_021165.1	Ca_Kabuli_Chr06	31608176	TT	CC	CC	INTERGENIC			
SNP_42479_A_31641833	NC_021165.1	Ca_Kabuli_Chr06	31641833	TT	CC	CC	INTERGENIC			
SNP_42480_A_31659595	NC_021165.1	Ca_Kabuli_Chr06	31659595	AA	GG	GG	INTERGENIC			
SNP_42481_A_31659603	NC_021165.1	Ca_Kabuli_Chr06	31659603	AA	TT	TT	INTERGENIC			
SNP_42482_A_31659612	NC_021165.1	Ca_Kabuli_Chr06	31659612	TT	GG	GG	INTERGENIC			
SNP_42483_A_31685453	NC_021165.1	Ca_Kabuli_Chr06	31685453	AA	TT	TT	INTERGENIC			
SNP_42484_A_31689363	NC_021165.1	Ca_Kabuli_Chr06	31689363	AA	TT	TT	INTERGENIC			
SNP_42485_A_31707464	NC_021165.1	Ca_Kabuli_Chr06	31707464	TT	AA	AA	INTERGENIC			
SNP_42486_A_31712089	NC_021165.1	Ca_Kabuli_Chr06	31712089	CC	TT	TT	INTERGENIC			
SNP_42487_A_31712184	NC_021165.1	Ca_Kabuli_Chr06	31712184	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42488_A_31717440	NC_021165.1	Ca_Kabuli_Chr06	31717440	TT	CC	CC	INTERGENIC		
SNP_42489_A_31717467	NC_021165.1	Ca_Kabuli_Chr06	31717467	GG	AA	AA	INTERGENIC		
SNP_42490_A_31717770	NC_021165.1	Ca_Kabuli_Chr06	31717770	TT	CC	CC	INTERGENIC		
SNP_42491_A_31744925	NC_021165.1	Ca_Kabuli_Chr06	31744925	CC	AA	AA	INTERGENIC		
SNP_42493_A_31750755	NC_021165.1	Ca_Kabuli_Chr06	31750755	AA	CC	CC	INTERGENIC		
SNP_42494_A_31753798	NC_021165.1	Ca_Kabuli_Chr06	31753798	AA	GG	GG	DRR	101493346	uncharacterized LOC101493346
SNP_42495_A_31753804	NC_021165.1	Ca_Kabuli_Chr06	31753804	TT	CC	CC	DRR	101493346	uncharacterized LOC101493346
SNP_42496_A_31753834	NC_021165.1	Ca_Kabuli_Chr06	31753834	TT	CC	CC	DRR	101493346	uncharacterized LOC101493346
SNP_42497_A_31753875	NC_021165.1	Ca_Kabuli_Chr06	31753875	TT	GG	GG	DRR	101493346	uncharacterized LOC101493346
SNP_42498_A_31753881	NC_021165.1	Ca_Kabuli_Chr06	31753881	AA	GG	GG	DRR	101493346	uncharacterized LOC101493346
SNP_42499_A_31754248	NC_021165.1	Ca_Kabuli_Chr06	31754248	AA	GG	GG	DRR	101493346	uncharacterized LOC101493346
SNP_42500_A_31769439	NC_021165.1	Ca_Kabuli_Chr06	31769439	GG	TT	TT	INTERGENIC		
SNP_42502_A_31835514	NC_021165.1	Ca_Kabuli_Chr06	31835514	TT	CC	CC	INTERGENIC		
SNP_42503_A_31835596	NC_021165.1	Ca_Kabuli_Chr06	31835596	TT	CC	CC	INTERGENIC		
SNP_42504_A_31915034	NC_021165.1	Ca_Kabuli_Chr06	31915034	TT	GG	GG	INTERGENIC		
SNP_42505_A_31923499	NC_021165.1	Ca_Kabuli_Chr06	31923499	TT	CC	CC	INTERGENIC		
SNP_42506_A_31939418	NC_021165.1	Ca_Kabuli_Chr06	31939418	GG	AA	AA	INTERGENIC		
SNP_42507_A_31939442	NC_021165.1	Ca_Kabuli_Chr06	31939442	CC	AA	AA	INTERGENIC		
SNP_42508_A_31939447	NC_021165.1	Ca_Kabuli_Chr06	31939447	CC	TT	TT	INTERGENIC		
SNP_42509_A_31939456	NC_021165.1	Ca_Kabuli_Chr06	31939456	TT	CC	CC	INTERGENIC		
SNP_42510_A_31939465	NC_021165.1	Ca_Kabuli_Chr06	31939465	GG	AA	AA	INTERGENIC		
SNP_42511_A_31939480	NC_021165.1	Ca_Kabuli_Chr06	31939480	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42512_A_31939496	NC_021165.1	Ca_Kabuli_Chr06	31939496	TT	CC	CC	INTERGENIC			
SNP_42513_A_31939513	NC_021165.1	Ca_Kabuli_Chr06	31939513	GG	AA	AA	INTERGENIC			
SNP_42514_A_31939549	NC_021165.1	Ca_Kabuli_Chr06	31939549	CC	TT	TT	INTERGENIC			
SNP_42515_A_31939574	NC_021165.1	Ca_Kabuli_Chr06	31939574	AA	GG	GG	INTERGENIC			
SNP_42516_A_31939594	NC_021165.1	Ca_Kabuli_Chr06	31939594	GG	AA	AA	INTERGENIC			
SNP_42517_A_31939599	NC_021165.1	Ca_Kabuli_Chr06	31939599	CC	AA	AA	INTERGENIC			
SNP_42518_A_31939626	NC_021165.1	Ca_Kabuli_Chr06	31939626	AA	GG	GG	INTERGENIC			
SNP_42519_A_31939920	NC_021165.1	Ca_Kabuli_Chr06	31939920	AA	GG	GG	INTERGENIC			
SNP_42520_A_31939935	NC_021165.1	Ca_Kabuli_Chr06	31939935	TT	CC	CC	INTERGENIC			
SNP_42521_A_31944714	NC_021165.1	Ca_Kabuli_Chr06	31944714	GG	AA	AA	INTERGENIC			
SNP_42522_A_31947358	NC_021165.1	Ca_Kabuli_Chr06	31947358	TT	AA	AA	INTERGENIC			
SNP_42523_A_31947423	NC_021165.1	Ca_Kabuli_Chr06	31947423	CC	TT	TT	INTERGENIC			
SNP_42524_A_31947449	NC_021165.1	Ca_Kabuli_Chr06	31947449	TT	CC	CC	INTERGENIC			
SNP_42525_A_31947452	NC_021165.1	Ca_Kabuli_Chr06	31947452	TT	CC	CC	INTERGENIC			
SNP_42526_A_31947460	NC_021165.1	Ca_Kabuli_Chr06	31947460	AA	GG	GG	INTERGENIC			
SNP_42527_A_31947617	NC_021165.1	Ca_Kabuli_Chr06	31947617	TT	CC	CC	INTERGENIC			
SNP_42529_A_31978099	NC_021165.1	Ca_Kabuli_Chr06	31978099	CC	TT	TT	INTERGENIC			
SNP_42530_A_31998524	NC_021165.1	Ca_Kabuli_Chr06	31998524	TT	GG	GG	INTERGENIC			
SNP_42531_A_31998525	NC_021165.1	Ca_Kabuli_Chr06	31998525	TT	GG	GG	INTERGENIC			
SNP_42532_A_32059447	NC_021165.1	Ca_Kabuli_Chr06	32059447	AA	CC	CC	INTERGENIC			
SNP_42533_A_32059540	NC_021165.1	Ca_Kabuli_Chr06	32059540	GG	AA	AA	INTERGENIC			
SNP_42534_A_32059572	NC_021165.1	Ca_Kabuli_Chr06	32059572	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42535_A_32059690	NC_021165.1	Ca_Kabuli_Chr06	32059690	CC	AA	AA	INTERGENIC			
SNP_42536_A_32093795	NC_021165.1	Ca_Kabuli_Chr06	32093795	TT	AA	AA	INTERGENIC			
SNP_42537_A_32124066	NC_021165.1	Ca_Kabuli_Chr06	32124066	GG	AA	AA	INTERGENIC			
SNP_42538_A_32124110	NC_021165.1	Ca_Kabuli_Chr06	32124110	GG	AA	AA	INTERGENIC			
SNP_42539_A_32124290	NC_021165.1	Ca_Kabuli_Chr06	32124290	TT	CC	CC	INTERGENIC			
SNP_42540_A_32129795	NC_021165.1	Ca_Kabuli_Chr06	32129795	TT	CC	CC	URR	101494613		uncharacterized LOC101494613
SNP_42541_A_32164199	NC_021165.1	Ca_Kabuli_Chr06	32164199	AA	CC	CC	INTERGENIC			
SNP_42542_A_32187428	NC_021165.1	Ca_Kabuli_Chr06	32187428	TT	GG	GG	INTERGENIC			
SNP_42543_A_32194299	NC_021165.1	Ca_Kabuli_Chr06	32194299	GG	AA	AA	INTERGENIC			
SNP_42544_A_32194571	NC_021165.1	Ca_Kabuli_Chr06	32194571	CC	AA	AA	INTERGENIC			
SNP_42545_A_32194631	NC_021165.1	Ca_Kabuli_Chr06	32194631	AA	GG	GG	INTERGENIC			
SNP_42546_A_32194640	NC_021165.1	Ca_Kabuli_Chr06	32194640	TT	CC	CC	INTERGENIC			
SNP_42547_A_32194655	NC_021165.1	Ca_Kabuli_Chr06	32194655	TT	AA	AA	INTERGENIC			
SNP_42548_A_32194675	NC_021165.1	Ca_Kabuli_Chr06	32194675	TT	CC	CC	INTERGENIC			
SNP_42549_A_32194692	NC_021165.1	Ca_Kabuli_Chr06	32194692	AA	GG	GG	INTERGENIC			
SNP_42550_A_32194705	NC_021165.1	Ca_Kabuli_Chr06	32194705	AA	TT	TT	INTERGENIC			
SNP_42551_A_32194719	NC_021165.1	Ca_Kabuli_Chr06	32194719	AA	TT	TT	INTERGENIC			
SNP_42552_A_32194740	NC_021165.1	Ca_Kabuli_Chr06	32194740	AA	GG	GG	INTERGENIC			
SNP_42553_A_32194749	NC_021165.1	Ca_Kabuli_Chr06	32194749	GG	AA	AA	INTERGENIC			
SNP_42554_A_32194767	NC_021165.1	Ca_Kabuli_Chr06	32194767	GG	AA	AA	INTERGENIC			
SNP_42555_A_32194778	NC_021165.1	Ca_Kabuli_Chr06	32194778	AA	GG	GG	INTERGENIC			
SNP_42556_A_32195192	NC_021165.1	Ca_Kabuli_Chr06	32195192	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42557_A_32195222	NC_021165.1	Ca_Kabuli_Chr06	32195222	TT	CC	CC	INTERGENIC		
SNP_42558_A_32216917	NC_021165.1	Ca_Kabuli_Chr06	32216917	CC	AA	AA	INTERGENIC		
SNP_42559_A_32217010	NC_021165.1	Ca_Kabuli_Chr06	32217010	TT	CC	CC	INTERGENIC		
SNP_42560_A_32335214	NC_021165.1	Ca_Kabuli_Chr06	32335214	GG	AA	AA	INTERGENIC		
SNP_42561_A_32357239	NC_021165.1	Ca_Kabuli_Chr06	32357239	GG	TT	TT	INTERGENIC		
SNP_42562_A_32370463	NC_021165.1	Ca_Kabuli_Chr06	32370463	GG	AA	AA	NON_SYNONYMOUS_CODING	101496889	S-type anion channel SLAH1-like
SNP_42563_A_32371234	NC_021165.1	Ca_Kabuli_Chr06	32371234	TT	CC	CC	URR	101496889	S-type anion channel SLAH1-like
SNP_42564_A_32371320	NC_021165.1	Ca_Kabuli_Chr06	32371320	AA	TT	TT	URR	101496889	S-type anion channel SLAH1-like
SNP_42565_A_32371595	NC_021165.1	Ca_Kabuli_Chr06	32371595	AA	CC	CC	URR	101496889	S-type anion channel SLAH1-like
SNP_42566_A_32372478	NC_021165.1	Ca_Kabuli_Chr06	32372478	GG	AA	AA	URR	101496889	S-type anion channel SLAH1-like
SNP_42567_A_32372700	NC_021165.1	Ca_Kabuli_Chr06	32372700	TT	CC	CC	URR	101496889	S-type anion channel SLAH1-like
SNP_42568_A_32372821	NC_021165.1	Ca_Kabuli_Chr06	32372821	GG	AA	AA	URR	101496889	S-type anion channel SLAH1-like
SNP_42570_A_32372844	NC_021165.1	Ca_Kabuli_Chr06	32372844	AA	GG	GG	URR	101496889	S-type anion channel SLAH1-like
SNP_42571_A_32372970	NC_021165.1	Ca_Kabuli_Chr06	32372970	GG	AA	AA	URR	101496889	S-type anion channel SLAH1-like
SNP_42572_A_32373112	NC_021165.1	Ca_Kabuli_Chr06	32373112	TT	CC	CC	INTERGENIC		
SNP_42573_A_32373182	NC_021165.1	Ca_Kabuli_Chr06	32373182	GG	TT	TT	INTERGENIC		
SNP_42574_A_32373281	NC_021165.1	Ca_Kabuli_Chr06	32373281	CC	TT	TT	INTERGENIC		
SNP_42575_A_32373285	NC_021165.1	Ca_Kabuli_Chr06	32373285	TT	CC	CC	INTERGENIC		
SNP_42576_A_32373304	NC_021165.1	Ca_Kabuli_Chr06	32373304	TT	GG	GG	INTERGENIC		
SNP_42577_A_32373319	NC_021165.1	Ca_Kabuli_Chr06	32373319	TT	GG	GG	INTERGENIC		
SNP_42578_A_32373387	NC_021165.1	Ca_Kabuli_Chr06	32373387	GG	AA	AA	INTERGENIC		
SNP_42579_A_32373413	NC_021165.1	Ca_Kabuli_Chr06	32373413	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42580_A_32373427	NC_021165.1	Ca_Kabuli_Chr06	32373427	GG	AA	AA	INTERGENIC			
SNP_42581_A_32373438	NC_021165.1	Ca_Kabuli_Chr06	32373438	TT	AA	AA	INTERGENIC			
SNP_42582_A_32373447	NC_021165.1	Ca_Kabuli_Chr06	32373447	CC	TT	TT	INTERGENIC			
SNP_42583_A_32373652	NC_021165.1	Ca_Kabuli_Chr06	32373652	AA	TT	TT	INTERGENIC			
SNP_42584_A_32373793	NC_021165.1	Ca_Kabuli_Chr06	32373793	AA	TT	TT	INTERGENIC			
SNP_42585_A_32390642	NC_021165.1	Ca_Kabuli_Chr06	32390642	GG	AA	AA	INTERGENIC			
SNP_42586_A_32390646	NC_021165.1	Ca_Kabuli_Chr06	32390646	AA	GG	GG	INTERGENIC			
SNP_42587_A_32391606	NC_021165.1	Ca_Kabuli_Chr06	32391606	CC	TT	TT	INTERGENIC			
SNP_42589_A_32391875	NC_021165.1	Ca_Kabuli_Chr06	32391875	AA	TT	TT	INTERGENIC			
SNP_42590_A_32391929	NC_021165.1	Ca_Kabuli_Chr06	32391929	GG	AA	AA	INTERGENIC			
SNP_42591_A_32391942	NC_021165.1	Ca_Kabuli_Chr06	32391942	TT	CC	CC	INTERGENIC			
SNP_42592_A_32392125	NC_021165.1	Ca_Kabuli_Chr06	32392125	AA	TT	TT	INTERGENIC			
SNP_42593_A_32392127	NC_021165.1	Ca_Kabuli_Chr06	32392127	AA	GG	GG	INTERGENIC			
SNP_42594_A_32392161	NC_021165.1	Ca_Kabuli_Chr06	32392161	TT	GG	GG	INTERGENIC			
SNP_42595_A_32392685	NC_021165.1	Ca_Kabuli_Chr06	32392685	TT	CC	CC	INTERGENIC			
SNP_42596_A_32393787	NC_021165.1	Ca_Kabuli_Chr06	32393787	GG	CC	CC	DRR	101498869	L-ascorbate oxidase homolog	
SNP_42597_A_32407021	NC_021165.1	Ca_Kabuli_Chr06	32407021	CC	TT	TT	INTERGENIC			
SNP_42598_A_32407046	NC_021165.1	Ca_Kabuli_Chr06	32407046	AA	GG	GG	INTERGENIC			
SNP_42599_A_32407073	NC_021165.1	Ca_Kabuli_Chr06	32407073	GG	AA	AA	INTERGENIC			
SNP_42600_A_32429391	NC_021165.1	Ca_Kabuli_Chr06	32429391	AA	GG	GG	INTERGENIC			
SNP_42601_A_32435386	NC_021165.1	Ca_Kabuli_Chr06	32435386	TT	AA	AA	URR	101498526	B-cell receptor-associated protein 31	
SNP_42602_A_32450150	NC_021165.1	Ca_Kabuli_Chr06	32450150	TT	CC	CC	DRR	101499512	fatty acyl-CoA reductase 3-like	

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SNP_42603_A_32508606	NC_021165.1	Ca_Kabuli_Chr06	32508606	GG	AA	AA	INTERGENIC			
SNP_42604_A_32508630	NC_021165.1	Ca_Kabuli_Chr06	32508630	GG	AA	AA	INTERGENIC			
SNP_42605_A_32512707	NC_021165.1	Ca_Kabuli_Chr06	32512707	GG	AA	AA	INTERGENIC			
SNP_42606_A_32513609	NC_021165.1	Ca_Kabuli_Chr06	32513609	GG	AA	AA	INTERGENIC			
SNP_42607_A_32513671	NC_021165.1	Ca_Kabuli_Chr06	32513671	GG	AA	AA	INTERGENIC			
SNP_42608_A_32513673	NC_021165.1	Ca_Kabuli_Chr06	32513673	GG	AA	AA	INTERGENIC			
SNP_42609_A_32513852	NC_021165.1	Ca_Kabuli_Chr06	32513852	CC	TT	TT	INTERGENIC			
SNP_42610_A_32513943	NC_021165.1	Ca_Kabuli_Chr06	32513943	AA	CC	CC	INTERGENIC			
SNP_42611_A_32519566	NC_021165.1	Ca_Kabuli_Chr06	32519566	GG	AA	AA	INTERGENIC			
SNP_42613_A_32519699	NC_021165.1	Ca_Kabuli_Chr06	32519699	GG	AA	AA	INTERGENIC			
SNP_42614_A_32519847	NC_021165.1	Ca_Kabuli_Chr06	32519847	GG	AA	AA	INTERGENIC			
SNP_42615_A_32520026	NC_021165.1	Ca_Kabuli_Chr06	32520026	GG	CC	CC	INTERGENIC			
SNP_42616_A_32520066	NC_021165.1	Ca_Kabuli_Chr06	32520066	TT	CC	CC	INTERGENIC			
SNP_42617_A_32520244	NC_021165.1	Ca_Kabuli_Chr06	32520244	GG	AA	AA	INTERGENIC			
SNP_42618_A_32520392	NC_021165.1	Ca_Kabuli_Chr06	32520392	TT	CC	CC	INTERGENIC			
SNP_42619_A_32520460	NC_021165.1	Ca_Kabuli_Chr06	32520460	TT	AA	AA	INTERGENIC			
SNP_42620_A_32520495	NC_021165.1	Ca_Kabuli_Chr06	32520495	AA	CC	CC	INTERGENIC			
SNP_42621_A_32520504	NC_021165.1	Ca_Kabuli_Chr06	32520504	GG	AA	AA	INTERGENIC			
SNP_42622_A_32520612	NC_021165.1	Ca_Kabuli_Chr06	32520612	CC	GG	GG	INTERGENIC			
SNP_42623_A_32520661	NC_021165.1	Ca_Kabuli_Chr06	32520661	AA	TT	TT	INTERGENIC			
SNP_42624_A_32520778	NC_021165.1	Ca_Kabuli_Chr06	32520778	CC	TT	TT	INTERGENIC			
SNP_42625_A_32521173	NC_021165.1	Ca_Kabuli_Chr06	32521173	CC	TT	TT	INTERGENIC			

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SNP_42627_A_32521631	NC_021165.1	Ca_Kabuli_Chr06	32521631	TT	AA	AA	INTERGENIC		
SNP_42628_A_32521698	NC_021165.1	Ca_Kabuli_Chr06	32521698	CC	AA	AA	INTERGENIC		
SNP_42629_A_32521765	NC_021165.1	Ca_Kabuli_Chr06	32521765	GG	AA	AA	INTERGENIC		
SNP_42631_A_32522005	NC_021165.1	Ca_Kabuli_Chr06	32522005	TT	CC	CC	INTERGENIC		
SNP_42633_A_32522363	NC_021165.1	Ca_Kabuli_Chr06	32522363	GG	TT	TT	INTERGENIC		
SNP_42634_A_32522392	NC_021165.1	Ca_Kabuli_Chr06	32522392	CC	TT	TT	INTERGENIC		
SNP_42635_A_32538970	NC_021165.1	Ca_Kabuli_Chr06	32538970	TT	CC	CC	URR	101500462	L-ascorbate oxidase homolog
SNP_42636_A_32539335	NC_021165.1	Ca_Kabuli_Chr06	32539335	TT	AA	AA	URR	101500462	L-ascorbate oxidase homolog
SNP_42637_A_32539690	NC_021165.1	Ca_Kabuli_Chr06	32539690	TT	AA	AA	URR	101500462	L-ascorbate oxidase homolog
SNP_42638_A_32539977	NC_021165.1	Ca_Kabuli_Chr06	32539977	AA	TT	TT	INTERGENIC		
SNP_42639_A_32540048	NC_021165.1	Ca_Kabuli_Chr06	32540048	TT	GG	GG	INTERGENIC		
SNP_42640_A_32540055	NC_021165.1	Ca_Kabuli_Chr06	32540055	GG	TT	TT	INTERGENIC		
SNP_42641_A_32540109	NC_021165.1	Ca_Kabuli_Chr06	32540109	GG	AA	AA	INTERGENIC		
SNP_42644_A_32540298	NC_021165.1	Ca_Kabuli_Chr06	32540298	AA	GG	GG	INTERGENIC		
SNP_42645_A_32540301	NC_021165.1	Ca_Kabuli_Chr06	32540301	TT	CC	CC	INTERGENIC		
SNP_42646_A_32540313	NC_021165.1	Ca_Kabuli_Chr06	32540313	TT	CC	CC	INTERGENIC		
SNP_42647_A_32540339	NC_021165.1	Ca_Kabuli_Chr06	32540339	GG	CC	CC	INTERGENIC		
SNP_42648_A_32540372	NC_021165.1	Ca_Kabuli_Chr06	32540372	CC	TT	TT	INTERGENIC		
SNP_42650_A_32540525	NC_021165.1	Ca_Kabuli_Chr06	32540525	AA	TT	TT	INTERGENIC		
SNP_42651_A_32540634	NC_021165.1	Ca_Kabuli_Chr06	32540634	GG	CC	CC	INTERGENIC		
SNP_42652_A_32540649	NC_021165.1	Ca_Kabuli_Chr06	32540649	TT	CC	CC	INTERGENIC		
SNP_42654_A_32540769	NC_021165.1	Ca_Kabuli_Chr06	32540769	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42655_A_32552390	NC_021165.1	Ca_Kabuli_Chr06	32552390	TT	CC	CC	INTERGENIC			
SNP_42656_A_32552896	NC_021165.1	Ca_Kabuli_Chr06	32552896	GG	AA	AA	INTERGENIC			
SNP_42657_A_32553275	NC_021165.1	Ca_Kabuli_Chr06	32553275	GG	AA	AA	INTERGENIC			
SNP_42658_A_32556437	NC_021165.1	Ca_Kabuli_Chr06	32556437	CC	TT	TT	INTERGENIC			
SNP_42659_A_32572028	NC_021165.1	Ca_Kabuli_Chr06	32572028	AA	TT	TT	INTERGENIC			
SNP_42660_A_32592079	NC_021165.1	Ca_Kabuli_Chr06	32592079	AA	GG	GG	INTERGENIC			
SNP_42661_A_32592081	NC_021165.1	Ca_Kabuli_Chr06	32592081	CC	TT	TT	INTERGENIC			
SNP_42662_A_32609216	NC_021165.1	Ca_Kabuli_Chr06	32609216	TT	GG	GG	INTERGENIC			
SNP_42663_A_32609283	NC_021165.1	Ca_Kabuli_Chr06	32609283	AA	TT	TT	INTERGENIC			
SNP_42664_A_32609299	NC_021165.1	Ca_Kabuli_Chr06	32609299	GG	AA	AA	INTERGENIC			
SNP_42665_A_32609448	NC_021165.1	Ca_Kabuli_Chr06	32609448	TT	CC	CC	INTERGENIC			
SNP_42666_A_32609589	NC_021165.1	Ca_Kabuli_Chr06	32609589	CC	GG	GG	INTERGENIC			
SNP_42667_A_32609753	NC_021165.1	Ca_Kabuli_Chr06	32609753	AA	GG	GG	INTERGENIC			
SNP_42668_A_32609793	NC_021165.1	Ca_Kabuli_Chr06	32609793	AA	GG	GG	INTERGENIC			
SNP_42669_A_32611021	NC_021165.1	Ca_Kabuli_Chr06	32611021	CC	AA	AA	INTERGENIC			
SNP_42670_A_32611024	NC_021165.1	Ca_Kabuli_Chr06	32611024	AA	GG	GG	INTERGENIC			
SNP_42671_A_32614291	NC_021165.1	Ca_Kabuli_Chr06	32614291	CC	TT	TT	INTERGENIC			
SNP_42672_A_32615361	NC_021165.1	Ca_Kabuli_Chr06	32615361	GG	AA	AA	INTERGENIC			
SNP_42673_A_32615475	NC_021165.1	Ca_Kabuli_Chr06	32615475	TT	CC	CC	INTERGENIC			
SNP_42674_A_32615486	NC_021165.1	Ca_Kabuli_Chr06	32615486	TT	CC	CC	INTERGENIC			
SNP_42675_A_32615513	NC_021165.1	Ca_Kabuli_Chr06	32615513	AA	GG	GG	INTERGENIC			
SNP_42676_A_32615711	NC_021165.1	Ca_Kabuli_Chr06	32615711	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42677_A_32615730	NC_021165.1	Ca_Kabuli_Chr06	32615730	TT	CC	CC	INTERGENIC			
SNP_42678_A_32615734	NC_021165.1	Ca_Kabuli_Chr06	32615734	CC	TT	TT	INTERGENIC			
SNP_42680_A_32627891	NC_021165.1	Ca_Kabuli_Chr06	32627891	GG	AA	AA	INTERGENIC			
SNP_42682_A_32630168	NC_021165.1	Ca_Kabuli_Chr06	32630168	CC	TT	TT	INTERGENIC			
SNP_42683_A_32630177	NC_021165.1	Ca_Kabuli_Chr06	32630177	TT	CC	CC	INTERGENIC			
SNP_42684_A_32630194	NC_021165.1	Ca_Kabuli_Chr06	32630194	CC	TT	TT	INTERGENIC			
SNP_42685_A_32630353	NC_021165.1	Ca_Kabuli_Chr06	32630353	AA	GG	GG	INTERGENIC			
SNP_42686_A_32630367	NC_021165.1	Ca_Kabuli_Chr06	32630367	TT	CC	CC	INTERGENIC			
SNP_42687_A_32630610	NC_021165.1	Ca_Kabuli_Chr06	32630610	CC	GG	GG	INTERGENIC			
SNP_42688_A_32630707	NC_021165.1	Ca_Kabuli_Chr06	32630707	AA	GG	GG	INTERGENIC			
SNP_42689_A_32637964	NC_021165.1	Ca_Kabuli_Chr06	32637964	TT	CC	CC	INTERGENIC			
SNP_42690_A_32691031	NC_021165.1	Ca_Kabuli_Chr06	32691031	GG	AA	AA	INTERGENIC			
SNP_42691_A_32730277	NC_021165.1	Ca_Kabuli_Chr06	32730277	GG	AA	AA	INTERGENIC			
SNP_42693_A_32767431	NC_021165.1	Ca_Kabuli_Chr06	32767431	TT	CC	CC	INTERGENIC			
SNP_42694_A_32839383	NC_021165.1	Ca_Kabuli_Chr06	32839383	TT	CC	CC	INTERGENIC			
SNP_42696_A_32931936	NC_021165.1	Ca_Kabuli_Chr06	32931936	TT	CC	CC	URR	101510291	13-hydroxylupanine O-ligoyltransferase-like	
SNP_42698_A_32949650	NC_021165.1	Ca_Kabuli_Chr06	32949650	CC	AA	AA	INTERGENIC			
SNP_42701_A_33020118	NC_021165.1	Ca_Kabuli_Chr06	33020118	AA	GG	GG	INTERGENIC			
SNP_42702_A_33039578	NC_021165.1	Ca_Kabuli_Chr06	33039578	CC	TT	TT	INTERGENIC			
SNP_42703_A_33039694	NC_021165.1	Ca_Kabuli_Chr06	33039694	GG	AA	AA	INTERGENIC			
SNP_42704_A_33039774	NC_021165.1	Ca_Kabuli_Chr06	33039774	TT	CC	CC	INTERGENIC			
SNP_42705_A_33039866	NC_021165.1	Ca_Kabuli_Chr06	33039866	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42706_A_33039919	NC_021165.1	Ca_Kabuli_Chr06	33039919	CC	TT	TT	INTERGENIC			
SNP_42707_A_33039946	NC_021165.1	Ca_Kabuli_Chr06	33039946	AA	GG	GG	INTERGENIC			
SNP_42708_A_33040033	NC_021165.1	Ca_Kabuli_Chr06	33040033	GG	TT	TT	INTERGENIC			
SNP_42709_A_33055211	NC_021165.1	Ca_Kabuli_Chr06	33055211	GG	AA	AA	INTERGENIC			
SNP_42710_A_33055378	NC_021165.1	Ca_Kabuli_Chr06	33055378	TT	AA	AA	INTERGENIC			
SNP_42712_A_33055492	NC_021165.1	Ca_Kabuli_Chr06	33055492	AA	CC	CC	INTERGENIC			
SNP_42713_A_33066872	NC_021165.1	Ca_Kabuli_Chr06	33066872	GG	TT	TT	INTERGENIC			
SNP_42714_A_33094201	NC_021165.1	Ca_Kabuli_Chr06	33094201	CC	TT	TT	INTERGENIC			
SNP_42715_A_33094227	NC_021165.1	Ca_Kabuli_Chr06	33094227	GG	CC	CC	INTERGENIC			
SNP_42716_A_33094241	NC_021165.1	Ca_Kabuli_Chr06	33094241	CC	TT	TT	INTERGENIC			
SNP_42717_A_33094249	NC_021165.1	Ca_Kabuli_Chr06	33094249	TT	CC	CC	INTERGENIC			
SNP_42718_A_33094269	NC_021165.1	Ca_Kabuli_Chr06	33094269	AA	GG	GG	INTERGENIC			
SNP_42719_A_33094293	NC_021165.1	Ca_Kabuli_Chr06	33094293	CC	TT	TT	INTERGENIC			
SNP_42720_A_33094309	NC_021165.1	Ca_Kabuli_Chr06	33094309	GG	AA	AA	INTERGENIC			
SNP_42721_A_33094315	NC_021165.1	Ca_Kabuli_Chr06	33094315	AA	TT	TT	INTERGENIC			
SNP_42722_A_33094337	NC_021165.1	Ca_Kabuli_Chr06	33094337	CC	TT	TT	INTERGENIC			
SNP_42723_A_33094358	NC_021165.1	Ca_Kabuli_Chr06	33094358	GG	AA	AA	INTERGENIC			
SNP_42724_A_33094384	NC_021165.1	Ca_Kabuli_Chr06	33094384	TT	CC	CC	INTERGENIC			
SNP_42725_A_33094404	NC_021165.1	Ca_Kabuli_Chr06	33094404	CC	TT	TT	INTERGENIC			
SNP_42726_A_33094436	NC_021165.1	Ca_Kabuli_Chr06	33094436	AA	TT	TT	INTERGENIC			
SNP_42727_A_33094502	NC_021165.1	Ca_Kabuli_Chr06	33094502	TT	CC	CC	INTERGENIC			
SNP_42728_A_33094548	NC_021165.1	Ca_Kabuli_Chr06	33094548	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42729_A_33094583	NC_021165.1	Ca_Kabuli_Chr06	33094583	AA	CC	CC	INTERGENIC		
SNP_42730_A_33094590	NC_021165.1	Ca_Kabuli_Chr06	33094590	CC	TT	TT	INTERGENIC		
SNP_42732_A_33094656	NC_021165.1	Ca_Kabuli_Chr06	33094656	TT	CC	CC	INTERGENIC		
SNP_42734_A_33094876	NC_021165.1	Ca_Kabuli_Chr06	33094876	GG	AA	AA	INTERGENIC		
SNP_42735_A_33094905	NC_021165.1	Ca_Kabuli_Chr06	33094905	GG	AA	AA	INTERGENIC		
SNP_42736_A_33105130	NC_021165.1	Ca_Kabuli_Chr06	33105130	TT	CC	CC	URR	101513196	uncharacterized LOC101513196
SNP_42737_A_33105230	NC_021165.1	Ca_Kabuli_Chr06	33105230	CC	TT	TT	URR	101513196	uncharacterized LOC101513196
SNP_42738_A_33105340	NC_021165.1	Ca_Kabuli_Chr06	33105340	TT	CC	CC	URR	101513196	uncharacterized LOC101513196
SNP_42739_A_33105372	NC_021165.1	Ca_Kabuli_Chr06	33105372	GG	AA	AA	URR	101513196	uncharacterized LOC101513196
SNP_42740_A_33105496	NC_021165.1	Ca_Kabuli_Chr06	33105496	GG	AA	AA	URR	101513196	uncharacterized LOC101513196
SNP_42741_A_33105498	NC_021165.1	Ca_Kabuli_Chr06	33105498	CC	TT	TT	URR	101513196	uncharacterized LOC101513196
SNP_42742_A_33105506	NC_021165.1	Ca_Kabuli_Chr06	33105506	GG	TT	TT	URR	101513196	uncharacterized LOC101513196
SNP_42743_A_33106397	NC_021165.1	Ca_Kabuli_Chr06	33106397	GG	AA	AA	URR	101513196	uncharacterized LOC101513196
SNP_42744_A_33106430	NC_021165.1	Ca_Kabuli_Chr06	33106430	AA	GG	GG	URR	101513196	uncharacterized LOC101513196
SNP_42745_A_33176504	NC_021165.1	Ca_Kabuli_Chr06	33176504	TT	AA	AA	NON_SYNONYMOUS_CODING	101513519	Unknown function
SNP_42746_A_33176508	NC_021165.1	Ca_Kabuli_Chr06	33176508	CC	TT	TT	SYNONYMOUS_CODING	101513519	Unknown function
SNP_42747_A_33177545	NC_021165.1	Ca_Kabuli_Chr06	33177545	TT	CC	CC	INTRON	101513519	Unknown function
SNP_42748_A_33177655	NC_021165.1	Ca_Kabuli_Chr06	33177655	AA	GG	GG	INTRON	101513519	Unknown function
SNP_42750_A_33177703	NC_021165.1	Ca_Kabuli_Chr06	33177703	CC	GG	GG	INTRON	101513519	Unknown function
SNP_42751_A_33177704	NC_021165.1	Ca_Kabuli_Chr06	33177704	TT	AA	AA	INTRON	101513519	Unknown function
SNP_42752_A_33177705	NC_021165.1	Ca_Kabuli_Chr06	33177705	CC	AA	AA	INTRON	101513519	Unknown function
SNP_42753_A_33177708	NC_021165.1	Ca_Kabuli_Chr06	33177708	CC	GG	GG	INTRON	101513519	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42754_A_33177868	NC_021165.1	Ca_Kabuli_Chr06	33177868	TT	CC	CC	STOP_LOST	101513519	Unknown function
SNP_42755_A_33177902	NC_021165.1	Ca_Kabuli_Chr06	33177902	TT	CC	CC	NON_SYNONYMOUS_CODING	101513519	Unknown function
SNP_42756_A_33177931	NC_021165.1	Ca_Kabuli_Chr06	33177931	AA	GG	GG	SYNONYMOUS_CODING	101513519	Unknown function
SNP_42757_A_33177970	NC_021165.1	Ca_Kabuli_Chr06	33177970	TT	GG	GG	SYNONYMOUS_CODING	101513519	Unknown function
SNP_42758_A_33180280	NC_021165.1	Ca_Kabuli_Chr06	33180280	CC	TT	TT	SYNONYMOUS_CODING	101513519	Unknown function
SNP_42759_A_33210434	NC_021165.1	Ca_Kabuli_Chr06	33210434	TT	CC	CC	INTERGENIC		
SNP_42760_A_33210467	NC_021165.1	Ca_Kabuli_Chr06	33210467	CC	AA	AA	INTERGENIC		
SNP_42761_A_33210473	NC_021165.1	Ca_Kabuli_Chr06	33210473	GG	CC	CC	INTERGENIC		
SNP_42762_A_33210480	NC_021165.1	Ca_Kabuli_Chr06	33210480	AA	CC	CC	INTERGENIC		
SNP_42763_A_33210548	NC_021165.1	Ca_Kabuli_Chr06	33210548	AA	TT	TT	INTERGENIC		
SNP_42764_A_33219704	NC_021165.1	Ca_Kabuli_Chr06	33219704	AA	TT	TT	URR	101514497	F-box protein CPR30-like
SNP_42765_A_33228473	NC_021165.1	Ca_Kabuli_Chr06	33228473	GG	AA	AA	INTERGENIC		
SNP_42766_A_33228498	NC_021165.1	Ca_Kabuli_Chr06	33228498	AA	GG	GG	INTERGENIC		
SNP_42767_A_33228503	NC_021165.1	Ca_Kabuli_Chr06	33228503	CC	TT	TT	INTERGENIC		
SNP_42768_A_33228509	NC_021165.1	Ca_Kabuli_Chr06	33228509	GG	AA	AA	INTERGENIC		
SNP_42769_A_33228525	NC_021165.1	Ca_Kabuli_Chr06	33228525	GG	AA	AA	INTERGENIC		
SNP_42770_A_33228569	NC_021165.1	Ca_Kabuli_Chr06	33228569	AA	CC	CC	INTERGENIC		
SNP_42771_A_33228598	NC_021165.1	Ca_Kabuli_Chr06	33228598	TT	AA	AA	INTERGENIC		
SNP_42772_A_33228667	NC_021165.1	Ca_Kabuli_Chr06	33228667	TT	AA	AA	INTERGENIC		
SNP_42773_A_33228688	NC_021165.1	Ca_Kabuli_Chr06	33228688	CC	TT	TT	INTERGENIC		
SNP_42774_A_33228923	NC_021165.1	Ca_Kabuli_Chr06	33228923	TT	GG	GG	INTERGENIC		
SNP_42778_A_33229305	NC_021165.1	Ca_Kabuli_Chr06	33229305	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42780_A_33229398	NC_021165.1	Ca_Kabuli_Chr06	33229398	AA	CC	CC	INTERGENIC			
SNP_42782_A_33229560	NC_021165.1	Ca_Kabuli_Chr06	33229560	CC	TT	TT	INTERGENIC			
SNP_42783_A_33229652	NC_021165.1	Ca_Kabuli_Chr06	33229652	TT	AA	AA	INTERGENIC			
SNP_42784_A_33229713	NC_021165.1	Ca_Kabuli_Chr06	33229713	TT	CC	CC	INTERGENIC			
SNP_42785_A_33229723	NC_021165.1	Ca_Kabuli_Chr06	33229723	TT	CC	CC	INTERGENIC			
SNP_42786_A_33229744	NC_021165.1	Ca_Kabuli_Chr06	33229744	AA	GG	GG	INTERGENIC			
SNP_42787_A_33229776	NC_021165.1	Ca_Kabuli_Chr06	33229776	AA	GG	GG	INTERGENIC			
SNP_42789_A_33229821	NC_021165.1	Ca_Kabuli_Chr06	33229821	TT	GG	GG	INTERGENIC			
SNP_42790_A_33229887	NC_021165.1	Ca_Kabuli_Chr06	33229887	GG	AA	AA	INTERGENIC			
SNP_42791_A_33229889	NC_021165.1	Ca_Kabuli_Chr06	33229889	TT	CC	CC	INTERGENIC			
SNP_42792_A_33229924	NC_021165.1	Ca_Kabuli_Chr06	33229924	TT	GG	GG	INTERGENIC			
SNP_42793_A_33229930	NC_021165.1	Ca_Kabuli_Chr06	33229930	TT	AA	AA	INTERGENIC			
SNP_42794_A_33229987	NC_021165.1	Ca_Kabuli_Chr06	33229987	AA	TT	TT	INTERGENIC			
SNP_42796_A_33230014	NC_021165.1	Ca_Kabuli_Chr06	33230014	AA	TT	TT	INTERGENIC			
SNP_42797_A_33230084	NC_021165.1	Ca_Kabuli_Chr06	33230084	GG	AA	AA	INTERGENIC			
SNP_42798_A_33230304	NC_021165.1	Ca_Kabuli_Chr06	33230304	CC	TT	TT	INTERGENIC			
SNP_42799_A_33230328	NC_021165.1	Ca_Kabuli_Chr06	33230328	TT	CC	CC	INTERGENIC			
SNP_42800_A_33230334	NC_021165.1	Ca_Kabuli_Chr06	33230334	AA	GG	GG	INTERGENIC			
SNP_42801_A_33230335	NC_021165.1	Ca_Kabuli_Chr06	33230335	GG	AA	AA	INTERGENIC			
SNP_42802_A_33230346	NC_021165.1	Ca_Kabuli_Chr06	33230346	CC	GG	GG	INTERGENIC			
SNP_42803_A_33230493	NC_021165.1	Ca_Kabuli_Chr06	33230493	CC	TT	TT	INTERGENIC			
SNP_42804_A_33230526	NC_021165.1	Ca_Kabuli_Chr06	33230526	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42805_A_33230578	NC_021165.1	Ca_Kabuli_Chr06	33230578	CC	TT	TT	INTERGENIC			
SNP_42808_A_33233710	NC_021165.1	Ca_Kabuli_Chr06	33233710	CC	TT	TT	INTERGENIC			
SNP_42809_A_33233716	NC_021165.1	Ca_Kabuli_Chr06	33233716	TT	CC	CC	INTERGENIC			
SNP_42810_A_33233728	NC_021165.1	Ca_Kabuli_Chr06	33233728	GG	AA	AA	INTERGENIC			
SNP_42811_A_33233768	NC_021165.1	Ca_Kabuli_Chr06	33233768	CC	TT	TT	INTERGENIC			
SNP_42812_A_33233791	NC_021165.1	Ca_Kabuli_Chr06	33233791	AA	GG	GG	INTERGENIC			
SNP_42813_A_33233859	NC_021165.1	Ca_Kabuli_Chr06	33233859	TT	GG	GG	INTERGENIC			
SNP_42814_A_33234076	NC_021165.1	Ca_Kabuli_Chr06	33234076	AA	TT	TT	INTERGENIC			
SNP_42815_A_33234428	NC_021165.1	Ca_Kabuli_Chr06	33234428	TT	AA	AA	INTERGENIC			
SNP_42816_A_33234444	NC_021165.1	Ca_Kabuli_Chr06	33234444	TT	CC	CC	INTERGENIC			
SNP_42817_A_33234543	NC_021165.1	Ca_Kabuli_Chr06	33234543	TT	AA	AA	INTERGENIC			
SNP_42818_A_33236611	NC_021165.1	Ca_Kabuli_Chr06	33236611	AA	GG	GG	INTERGENIC			
SNP_42819_A_33236612	NC_021165.1	Ca_Kabuli_Chr06	33236612	AA	TT	TT	INTERGENIC			
SNP_42820_A_33240127	NC_021165.1	Ca_Kabuli_Chr06	33240127	TT	GG	GG	INTERGENIC			
SNP_42821_A_33240198	NC_021165.1	Ca_Kabuli_Chr06	33240198	CC	GG	GG	INTERGENIC			
SNP_42823_A_33240324	NC_021165.1	Ca_Kabuli_Chr06	33240324	TT	CC	CC	INTERGENIC			
SNP_42824_A_33240364	NC_021165.1	Ca_Kabuli_Chr06	33240364	CC	TT	TT	INTERGENIC			
SNP_42826_A_33240405	NC_021165.1	Ca_Kabuli_Chr06	33240405	TT	GG	GG	INTERGENIC			
SNP_42827_A_33240416	NC_021165.1	Ca_Kabuli_Chr06	33240416	GG	TT	TT	INTERGENIC			
SNP_42828_A_33240535	NC_021165.1	Ca_Kabuli_Chr06	33240535	AA	CC	CC	INTERGENIC			
SNP_42829_A_33240538	NC_021165.1	Ca_Kabuli_Chr06	33240538	TT	AA	AA	INTERGENIC			
SNP_42830_A_33240550	NC_021165.1	Ca_Kabuli_Chr06	33240550	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42831_A_33240564	NC_021165.1	Ca_Kabuli_Chr06	33240564	TT	AA	AA	INTERGENIC			
SNP_42832_A_33240617	NC_021165.1	Ca_Kabuli_Chr06	33240617	AA	GG	GG	INTERGENIC			
SNP_42833_A_33240651	NC_021165.1	Ca_Kabuli_Chr06	33240651	GG	AA	AA	INTERGENIC			
SNP_42834_A_33240685	NC_021165.1	Ca_Kabuli_Chr06	33240685	CC	TT	TT	INTERGENIC			
SNP_42836_A_33240811	NC_021165.1	Ca_Kabuli_Chr06	33240811	GG	CC	CC	INTERGENIC			
SNP_42837_A_33240844	NC_021165.1	Ca_Kabuli_Chr06	33240844	TT	CC	CC	INTERGENIC			
SNP_42838_A_33240911	NC_021165.1	Ca_Kabuli_Chr06	33240911	AA	GG	GG	INTERGENIC			
SNP_42839_A_33240966	NC_021165.1	Ca_Kabuli_Chr06	33240966	AA	GG	GG	INTERGENIC			
SNP_42840_A_33241158	NC_021165.1	Ca_Kabuli_Chr06	33241158	AA	GG	GG	INTERGENIC			
SNP_42841_A_33241203	NC_021165.1	Ca_Kabuli_Chr06	33241203	TT	AA	AA	INTERGENIC			
SNP_42842_A_33241211	NC_021165.1	Ca_Kabuli_Chr06	33241211	GG	AA	AA	INTERGENIC			
SNP_42843_A_33241236	NC_021165.1	Ca_Kabuli_Chr06	33241236	CC	AA	AA	INTERGENIC			
SNP_42844_A_33241247	NC_021165.1	Ca_Kabuli_Chr06	33241247	CC	TT	TT	INTERGENIC			
SNP_42845_A_33241264	NC_021165.1	Ca_Kabuli_Chr06	33241264	CC	TT	TT	INTERGENIC			
SNP_42846_A_33241304	NC_021165.1	Ca_Kabuli_Chr06	33241304	CC	AA	AA	INTERGENIC			
SNP_42847_A_33241307	NC_021165.1	Ca_Kabuli_Chr06	33241307	AA	CC	CC	INTERGENIC			
SNP_42848_A_33241487	NC_021165.1	Ca_Kabuli_Chr06	33241487	GG	TT	TT	INTERGENIC			
SNP_42850_A_33265837	NC_021165.1	Ca_Kabuli_Chr06	33265837	AA	GG	GG	INTERGENIC			
SNP_42851_A_33282973	NC_021165.1	Ca_Kabuli_Chr06	33282973	TT	CC	CC	INTERGENIC			
SNP_42852_A_33283032	NC_021165.1	Ca_Kabuli_Chr06	33283032	AA	TT	TT	INTERGENIC			
SNP_42853_A_33283038	NC_021165.1	Ca_Kabuli_Chr06	33283038	GG	TT	TT	INTERGENIC			
SNP_42854_A_33283053	NC_021165.1	Ca_Kabuli_Chr06	33283053	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42855_A_33283076	NC_021165.1	Ca_Kabuli_Chr06	33283076	TT	CC	CC	INTERGENIC			
SNP_42856_A_33283094	NC_021165.1	Ca_Kabuli_Chr06	33283094	CC	TT	TT	INTERGENIC			
SNP_42857_A_33283115	NC_021165.1	Ca_Kabuli_Chr06	33283115	AA	TT	TT	INTERGENIC			
SNP_42858_A_33283123	NC_021165.1	Ca_Kabuli_Chr06	33283123	AA	GG	GG	INTERGENIC			
SNP_42859_A_33283129	NC_021165.1	Ca_Kabuli_Chr06	33283129	GG	AA	AA	INTERGENIC			
SNP_42860_A_33283149	NC_021165.1	Ca_Kabuli_Chr06	33283149	GG	TT	TT	INTERGENIC			
SNP_42861_A_33283326	NC_021165.1	Ca_Kabuli_Chr06	33283326	CC	GG	GG	INTERGENIC			
SNP_42862_A_33283365	NC_021165.1	Ca_Kabuli_Chr06	33283365	CC	TT	TT	INTERGENIC			
SNP_42863_A_33283381	NC_021165.1	Ca_Kabuli_Chr06	33283381	TT	GG	GG	INTERGENIC			
SNP_42864_A_33283440	NC_021165.1	Ca_Kabuli_Chr06	33283440	CC	TT	TT	INTERGENIC			
SNP_42865_A_33283529	NC_021165.1	Ca_Kabuli_Chr06	33283529	TT	AA	AA	INTERGENIC			
SNP_42866_A_33293477	NC_021165.1	Ca_Kabuli_Chr06	33293477	AA	TT	TT	INTERGENIC			
SNP_42867_A_33293521	NC_021165.1	Ca_Kabuli_Chr06	33293521	GG	AA	AA	INTERGENIC			
SNP_42868_A_33293535	NC_021165.1	Ca_Kabuli_Chr06	33293535	CC	TT	TT	INTERGENIC			
SNP_42869_A_33293560	NC_021165.1	Ca_Kabuli_Chr06	33293560	CC	TT	TT	INTERGENIC			
SNP_42870_A_33293697	NC_021165.1	Ca_Kabuli_Chr06	33293697	AA	GG	GG	INTERGENIC			
SNP_42871_A_33293738	NC_021165.1	Ca_Kabuli_Chr06	33293738	AA	TT	GG	INTERGENIC			
SNP_42872_A_33293792	NC_021165.1	Ca_Kabuli_Chr06	33293792	AA	GG	GG	INTERGENIC			
SNP_42873_A_33293861	NC_021165.1	Ca_Kabuli_Chr06	33293861	TT	AA	AA	INTERGENIC			
SNP_42874_A_33293862	NC_021165.1	Ca_Kabuli_Chr06	33293862	TT	GG	GG	INTERGENIC			
SNP_42875_A_33295156	NC_021165.1	Ca_Kabuli_Chr06	33295156	CC	TT	TT	INTERGENIC			
SNP_42876_A_33295248	NC_021165.1	Ca_Kabuli_Chr06	33295248	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42877_A_33295284	NC_021165.1	Ca_Kabuli_Chr06	33295284	TT	CC	CC	INTERGENIC			
SNP_42878_A_33295296	NC_021165.1	Ca_Kabuli_Chr06	33295296	AA	GG	GG	INTERGENIC			
SNP_42879_A_33295478	NC_021165.1	Ca_Kabuli_Chr06	33295478	TT	AA	AA	INTERGENIC			
SNP_42880_A_33295749	NC_021165.1	Ca_Kabuli_Chr06	33295749	GG	CC	CC	INTERGENIC			
SNP_42881_A_33295779	NC_021165.1	Ca_Kabuli_Chr06	33295779	GG	CC	CC	INTERGENIC			
SNP_42882_A_33295852	NC_021165.1	Ca_Kabuli_Chr06	33295852	AA	CC	CC	INTERGENIC			
SNP_42883_A_33295936	NC_021165.1	Ca_Kabuli_Chr06	33295936	CC	TT	TT	INTERGENIC			
SNP_42884_A_33295985	NC_021165.1	Ca_Kabuli_Chr06	33295985	TT	CC	CC	INTERGENIC			
SNP_42885_A_33295998	NC_021165.1	Ca_Kabuli_Chr06	33295998	TT	CC	CC	INTERGENIC			
SNP_42886_A_33296060	NC_021165.1	Ca_Kabuli_Chr06	33296060	AA	GG	GG	INTERGENIC			
SNP_42887_A_33296147	NC_021165.1	Ca_Kabuli_Chr06	33296147	GG	CC	CC	INTERGENIC			
SNP_42888_A_33296174	NC_021165.1	Ca_Kabuli_Chr06	33296174	GG	CC	CC	INTERGENIC			
SNP_42889_A_33296181	NC_021165.1	Ca_Kabuli_Chr06	33296181	AA	CC	CC	INTERGENIC			
SNP_42890_A_33296248	NC_021165.1	Ca_Kabuli_Chr06	33296248	AA	CC	CC	INTERGENIC			
SNP_42892_A_33296423	NC_021165.1	Ca_Kabuli_Chr06	33296423	TT	CC	CC	INTERGENIC			
SNP_42893_A_33296474	NC_021165.1	Ca_Kabuli_Chr06	33296474	CC	TT	TT	INTERGENIC			
SNP_42894_A_33296570	NC_021165.1	Ca_Kabuli_Chr06	33296570	TT	CC	CC	INTERGENIC			
SNP_42895_A_33296606	NC_021165.1	Ca_Kabuli_Chr06	33296606	AA	TT	TT	INTERGENIC			
SNP_42896_A_33296649	NC_021165.1	Ca_Kabuli_Chr06	33296649	CC	TT	TT	INTERGENIC			
SNP_42897_A_33296672	NC_021165.1	Ca_Kabuli_Chr06	33296672	CC	AA	AA	INTERGENIC			
SNP_42898_A_33296692	NC_021165.1	Ca_Kabuli_Chr06	33296692	AA	GG	GG	INTERGENIC			
SNP_42899_A_33296728	NC_021165.1	Ca_Kabuli_Chr06	33296728	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42900_A_33296836	NC_021165.1	Ca_Kabuli_Chr06	33296836	GG	AA	AA	INTERGENIC			
SNP_42901_A_33296895	NC_021165.1	Ca_Kabuli_Chr06	33296895	AA	GG	GG	INTERGENIC			
SNP_42902_A_33296929	NC_021165.1	Ca_Kabuli_Chr06	33296929	GG	AA	AA	INTERGENIC			
SNP_42903_A_33296936	NC_021165.1	Ca_Kabuli_Chr06	33296936	GG	AA	AA	INTERGENIC			
SNP_42904_A_33296952	NC_021165.1	Ca_Kabuli_Chr06	33296952	AA	GG	GG	INTERGENIC			
SNP_42905_A_33297091	NC_021165.1	Ca_Kabuli_Chr06	33297091	AA	CC	CC	INTERGENIC			
SNP_42906_A_33297132	NC_021165.1	Ca_Kabuli_Chr06	33297132	TT	CC	CC	INTERGENIC			
SNP_42907_A_33297152	NC_021165.1	Ca_Kabuli_Chr06	33297152	TT	GG	GG	INTERGENIC			
SNP_42908_A_33297159	NC_021165.1	Ca_Kabuli_Chr06	33297159	AA	GG	GG	INTERGENIC			
SNP_42909_A_33297204	NC_021165.1	Ca_Kabuli_Chr06	33297204	CC	TT	TT	INTERGENIC			
SNP_42910_A_33297272	NC_021165.1	Ca_Kabuli_Chr06	33297272	GG	AA	AA	INTERGENIC			
SNP_42911_A_33298964	NC_021165.1	Ca_Kabuli_Chr06	33298964	AA	CC	CC	INTERGENIC			
SNP_42912_A_33299787	NC_021165.1	Ca_Kabuli_Chr06	33299787	TT	CC	CC	INTERGENIC			
SNP_42913_A_33299852	NC_021165.1	Ca_Kabuli_Chr06	33299852	AA	TT	TT	INTERGENIC			
SNP_42914_A_33299899	NC_021165.1	Ca_Kabuli_Chr06	33299899	TT	GG	GG	INTERGENIC			
SNP_42915_A_33299966	NC_021165.1	Ca_Kabuli_Chr06	33299966	CC	GG	GG	INTERGENIC			
SNP_42916_A_33300027	NC_021165.1	Ca_Kabuli_Chr06	33300027	AA	CC	CC	INTERGENIC			
SNP_42917_A_33300070	NC_021165.1	Ca_Kabuli_Chr06	33300070	GG	TT	TT	INTERGENIC			
SNP_42918_A_33300080	NC_021165.1	Ca_Kabuli_Chr06	33300080	GG	AA	AA	INTERGENIC			
SNP_42919_A_33300123	NC_021165.1	Ca_Kabuli_Chr06	33300123	AA	TT	TT	INTERGENIC			
SNP_42920_A_33300188	NC_021165.1	Ca_Kabuli_Chr06	33300188	AA	GG	GG	INTERGENIC			
SNP_42921_A_33310241	NC_021165.1	Ca_Kabuli_Chr06	33310241	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42922_A_33310242	NC_021165.1	Ca_Kabuli_Chr06	33310242	CC	AA	AA	INTERGENIC		
SNP_42923_A_33314023	NC_021165.1	Ca_Kabuli_Chr06	33314023	AA	TT	TT	INTERGENIC		
SNP_42924_A_33314049	NC_021165.1	Ca_Kabuli_Chr06	33314049	TT	AA	AA	INTERGENIC		
SNP_42925_A_33314063	NC_021165.1	Ca_Kabuli_Chr06	33314063	GG	AA	AA	INTERGENIC		
SNP_42926_A_33314086	NC_021165.1	Ca_Kabuli_Chr06	33314086	AA	TT	TT	INTERGENIC		
SNP_42928_A_33340581	NC_021165.1	Ca_Kabuli_Chr06	33340581	CC	TT	TT	DRR	101515460	Unknown function
SNP_42929_A_33340584	NC_021165.1	Ca_Kabuli_Chr06	33340584	AA	CC	CC	DRR	101515460	Unknown function
SNP_42930_A_33340590	NC_021165.1	Ca_Kabuli_Chr06	33340590	AA	TT	TT	DRR	101515460	Unknown function
SNP_42931_A_33340746	NC_021165.1	Ca_Kabuli_Chr06	33340746	GG	AA	AA	DRR	101515460	Unknown function
SNP_42932_A_33340775	NC_021165.1	Ca_Kabuli_Chr06	33340775	GG	TT	TT	DRR	101515460	Unknown function
SNP_42934_A_33340878	NC_021165.1	Ca_Kabuli_Chr06	33340878	CC	AA	AA	DRR	101515460	Unknown function
SNP_42935_A_33340891	NC_021165.1	Ca_Kabuli_Chr06	33340891	CC	TT	TT	DRR	101515460	Unknown function
SNP_42936_A_33340909	NC_021165.1	Ca_Kabuli_Chr06	33340909	TT	CC	CC	DRR	101515460	Unknown function
SNP_42937_A_33340911	NC_021165.1	Ca_Kabuli_Chr06	33340911	GG	AA	AA	DRR	101515460	Unknown function
SNP_42938_A_33340994	NC_021165.1	Ca_Kabuli_Chr06	33340994	AA	GG	GG	DRR	101515460	Unknown function
SNP_42939_A_33341001	NC_021165.1	Ca_Kabuli_Chr06	33341001	AA	GG	GG	DRR	101515460	Unknown function
SNP_42940_A_33341024	NC_021165.1	Ca_Kabuli_Chr06	33341024	TT	CC	CC	DRR	101515460	Unknown function
SNP_42941_A_33341074	NC_021165.1	Ca_Kabuli_Chr06	33341074	CC	TT	TT	DRR	101515460	Unknown function
SNP_42942_A_33341077	NC_021165.1	Ca_Kabuli_Chr06	33341077	TT	CC	CC	DRR	101515460	Unknown function
SNP_42943_A_33341154	NC_021165.1	Ca_Kabuli_Chr06	33341154	GG	AA	AA	DRR	101515460	Unknown function
SNP_42944_A_33341161	NC_021165.1	Ca_Kabuli_Chr06	33341161	CC	AA	AA	DRR	101515460	Unknown function
SNP_42945_A_33341241	NC_021165.1	Ca_Kabuli_Chr06	33341241	TT	CC	CC	NON_SYNONYMOUS_CODING	101515460	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42946_A_33341336	NC_021165.1	Ca_Kabuli_Chr06	33341336	GG	TT	TT	STOP_GAINED	101515460	Unknown function
SNP_42947_A_33341349	NC_021165.1	Ca_Kabuli_Chr06	33341349	TT	CC	CC	NON_SYNONYMOUS_CODING	101515460	Unknown function
SNP_42948_A_33341363	NC_021165.1	Ca_Kabuli_Chr06	33341363	GG	AA	AA	NON_SYNONYMOUS_CODING	101515460	Unknown function
SNP_42949_A_33341480	NC_021165.1	Ca_Kabuli_Chr06	33341480	TT	CC	CC	STOP_LOST	101515460	Unknown function
SNP_42950_A_33341634	NC_021165.1	Ca_Kabuli_Chr06	33341634	TT	GG	GG	URR	101515460	Unknown function
SNP_42951_A_33341723	NC_021165.1	Ca_Kabuli_Chr06	33341723	TT	AA	AA	URR	101515460	Unknown function
SNP_42952_A_33350430	NC_021165.1	Ca_Kabuli_Chr06	33350430	CC	TT	TT	INTERGENIC		
SNP_42953_A_33358386	NC_021165.1	Ca_Kabuli_Chr06	33358386	GG	AA	AA	INTERGENIC		
SNP_42954_A_33361669	NC_021165.1	Ca_Kabuli_Chr06	33361669	TT	CC	CC	INTERGENIC		
SNP_42955_A_33408278	NC_021165.1	Ca_Kabuli_Chr06	33408278	CC	AA	AA	INTERGENIC		
SNP_42956_A_33423333	NC_021165.1	Ca_Kabuli_Chr06	33423333	GG	TT	TT	INTERGENIC		
SNP_42957_A_33428210	NC_021165.1	Ca_Kabuli_Chr06	33428210	CC	TT	TT	INTERGENIC		
SNP_42958_A_33428615	NC_021165.1	Ca_Kabuli_Chr06	33428615	CC	AA	AA	INTERGENIC		
SNP_42959_A_33444855	NC_021165.1	Ca_Kabuli_Chr06	33444855	CC	TT	TT	INTERGENIC		
SNP_42960_A_33458072	NC_021165.1	Ca_Kabuli_Chr06	33458072	CC	TT	TT	INTERGENIC		
SNP_42961_A_33466055	NC_021165.1	Ca_Kabuli_Chr06	33466055	TT	CC	CC	INTERGENIC		
SNP_42962_A_33467907	NC_021165.1	Ca_Kabuli_Chr06	33467907	AA	GG	GG	INTERGENIC		
SNP_42964_A_33575309	NC_021165.1	Ca_Kabuli_Chr06	33575309	AA	TT	TT	INTERGENIC		
SNP_42965_A_33589864	NC_021165.1	Ca_Kabuli_Chr06	33589864	TT	AA	AA	INTERGENIC		
SNP_42966_A_33612205	NC_021165.1	Ca_Kabuli_Chr06	33612205	GG	AA	AA	INTERGENIC		
SNP_42967_A_33612211	NC_021165.1	Ca_Kabuli_Chr06	33612211	TT	CC	CC	INTERGENIC		
SNP_42968_A_33633062	NC_021165.1	Ca_Kabuli_Chr06	33633062	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_42969_A_33633083	NC_021165.1	Ca_Kabuli_Chr06	33633083	AA	GG	GG	INTERGENIC			
SNP_42970_A_33650878	NC_021165.1	Ca_Kabuli_Chr06	33650878	GG	AA	AA	INTERGENIC			
SNP_42971_A_33651239	NC_021165.1	Ca_Kabuli_Chr06	33651239	AA	GG	GG	INTERGENIC			
SNP_42972_A_33651311	NC_021165.1	Ca_Kabuli_Chr06	33651311	TT	CC	CC	INTERGENIC			
SNP_42973_A_33651326	NC_021165.1	Ca_Kabuli_Chr06	33651326	GG	AA	AA	INTERGENIC			
SNP_42974_A_33651375	NC_021165.1	Ca_Kabuli_Chr06	33651375	TT	CC	CC	INTERGENIC			
SNP_42975_A_33651394	NC_021165.1	Ca_Kabuli_Chr06	33651394	GG	AA	AA	INTERGENIC			
SNP_42976_A_33651527	NC_021165.1	Ca_Kabuli_Chr06	33651527	TT	CC	CC	INTERGENIC			
SNP_42977_A_33654988	NC_021165.1	Ca_Kabuli_Chr06	33654988	AA	CC	CC	INTERGENIC			
SNP_42978_A_33655992	NC_021165.1	Ca_Kabuli_Chr06	33655992	GG	AA	AA	INTERGENIC			
SNP_42979_A_33705006	NC_021165.1	Ca_Kabuli_Chr06	33705006	GG	TT	TT	NON_SYNONYMOUS_CODING		101494087	Unknown function
SNP_42980_A_33736550	NC_021165.1	Ca_Kabuli_Chr06	33736550	GG	AA	AA	URR		101490739	mediator of RNA polymerase II transcription subunit 12-like
SNP_42982_A_33797059	NC_021165.1	Ca_Kabuli_Chr06	33797059	CC	GG	GG	INTERGENIC			
SNP_42983_A_33820530	NC_021165.1	Ca_Kabuli_Chr06	33820530	CC	TT	TT	INTERGENIC			
SNP_42984_A_33870496	NC_021165.1	Ca_Kabuli_Chr06	33870496	GG	AA	AA	URR		101492678	probable LRR receptor-like serine/threonine-protein kinase At4g08850
SNP_42985_A_33877896	NC_021165.1	Ca_Kabuli_Chr06	33877896	GG	AA	AA	INTERGENIC			
SNP_42986_A_33886236	NC_021165.1	Ca_Kabuli_Chr06	33886236	AA	CC	CC	INTERGENIC			
SNP_42987_A_33886581	NC_021165.1	Ca_Kabuli_Chr06	33886581	CC	AA	AA	INTERGENIC			
SNP_42988_A_33919866	NC_021165.1	Ca_Kabuli_Chr06	33919866	GG	AA	AA	INTERGENIC			
SNP_42989_A_33941866	NC_021165.1	Ca_Kabuli_Chr06	33941866	CC	TT	TT	INTERGENIC			
SNP_42990_A_33942074	NC_021165.1	Ca_Kabuli_Chr06	33942074	AA	GG	GG	INTERGENIC			
SNP_42991_A_33974241	NC_021165.1	Ca_Kabuli_Chr06	33974241	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_42992_A_33974244	NC_021165.1	Ca_Kabuli_Chr06	33974244	CC	AA	AA	INTERGENIC		
SNP_42994_A_33988794	NC_021165.1	Ca_Kabuli_Chr06	33988794	GG	AA	AA	INTERGENIC		
SNP_42995_A_33988987	NC_021165.1	Ca_Kabuli_Chr06	33988987	TT	AA	AA	INTERGENIC		
SNP_42996_A_33989015	NC_021165.1	Ca_Kabuli_Chr06	33989015	GG	AA	AA	INTERGENIC		
SNP_42997_A_33989067	NC_021165.1	Ca_Kabuli_Chr06	33989067	CC	AA	AA	INTERGENIC		
SNP_42998_A_33989076	NC_021165.1	Ca_Kabuli_Chr06	33989076	CC	GG	GG	INTERGENIC		
SNP_42999_A_33989115	NC_021165.1	Ca_Kabuli_Chr06	33989115	CC	TT	TT	INTERGENIC		
SNP_43000_A_33995851	NC_021165.1	Ca_Kabuli_Chr06	33995851	AA	GG	GG	INTERGENIC		
SNP_43001_A_33995852	NC_021165.1	Ca_Kabuli_Chr06	33995852	TT	CC	CC	INTERGENIC		
SNP_43002_A_33995854	NC_021165.1	Ca_Kabuli_Chr06	33995854	TT	CC	CC	INTERGENIC		
SNP_43003_A_33999090	NC_021165.1	Ca_Kabuli_Chr06	33999090	CC	AA	AA	DRR	101493446	Unknown function
SNP_43004_A_34029738	NC_021165.1	Ca_Kabuli_Chr06	34029738	CC	AA	AA	INTRON	101496015	Unknown function
SNP_43005_A_34029746	NC_021165.1	Ca_Kabuli_Chr06	34029746	TT	AA	AA	INTRON	101496015	Unknown function
SNP_43006_A_34029895	NC_021165.1	Ca_Kabuli_Chr06	34029895	AA	TT	TT	INTRON	101496015	Unknown function
SNP_43007_A_34029906	NC_021165.1	Ca_Kabuli_Chr06	34029906	AA	GG	GG	INTRON	101496015	Unknown function
SNP_43008_A_34043830	NC_021165.1	Ca_Kabuli_Chr06	34043830	GG	TT	TT	INTERGENIC		
SNP_43009_A_34052328	NC_021165.1	Ca_Kabuli_Chr06	34052328	CC	GG	GG	INTERGENIC		
SNP_43010_A_34058321	NC_021165.1	Ca_Kabuli_Chr06	34058321	TT	CC	CC	INTERGENIC		
SNP_43011_A_34058695	NC_021165.1	Ca_Kabuli_Chr06	34058695	TT	CC	CC	INTERGENIC		
SNP_43012_A_34062645	NC_021165.1	Ca_Kabuli_Chr06	34062645	AA	GG	GG	INTERGENIC		
SNP_43013_A_34065190	NC_021165.1	Ca_Kabuli_Chr06	34065190	CC	TT	TT	INTERGENIC		
SNP_43014_A_34065508	NC_021165.1	Ca_Kabuli_Chr06	34065508	TT	AA	AA	INTERGENIC		

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SNP_43015_A_34076633	NC_021165.1	Ca_Kabuli_Chr06	34076633	GG	AA	AA	INTERGENIC			
SNP_43016_A_34117710	NC_021165.1	Ca_Kabuli_Chr06	34117710	AA	TT	TT	INTERGENIC			
SNP_43017_A_34118061	NC_021165.1	Ca_Kabuli_Chr06	34118061	CC	AA	AA	INTERGENIC			
SNP_43018_A_34125283	NC_021165.1	Ca_Kabuli_Chr06	34125283	GG	CC	CC	INTERGENIC			
SNP_43019_A_34135502	NC_021165.1	Ca_Kabuli_Chr06	34135502	TT	GG	GG	INTERGENIC			
SNP_43020_A_34144528	NC_021165.1	Ca_Kabuli_Chr06	34144528	TT	GG	GG	INTERGENIC			
SNP_43021_A_34144550	NC_021165.1	Ca_Kabuli_Chr06	34144550	GG	AA	AA	INTERGENIC			
SNP_43022_A_34144576	NC_021165.1	Ca_Kabuli_Chr06	34144576	GG	CC	CC	INTERGENIC			
SNP_43023_A_34144590	NC_021165.1	Ca_Kabuli_Chr06	34144590	AA	TT	TT	INTERGENIC			
SNP_43024_A_34144594	NC_021165.1	Ca_Kabuli_Chr06	34144594	CC	TT	TT	INTERGENIC			
SNP_43025_A_34144606	NC_021165.1	Ca_Kabuli_Chr06	34144606	AA	GG	GG	INTERGENIC			
SNP_43026_A_34144620	NC_021165.1	Ca_Kabuli_Chr06	34144620	AA	CC	CC	INTERGENIC			
SNP_43027_A_34144653	NC_021165.1	Ca_Kabuli_Chr06	34144653	AA	TT	TT	INTERGENIC			
SNP_43028_A_34144654	NC_021165.1	Ca_Kabuli_Chr06	34144654	TT	AA	AA	INTERGENIC			
SNP_43029_A_34144669	NC_021165.1	Ca_Kabuli_Chr06	34144669	CC	GG	GG	INTERGENIC			
SNP_43030_A_34144962	NC_021165.1	Ca_Kabuli_Chr06	34144962	TT	AA	AA	INTERGENIC			
SNP_43031_A_34144975	NC_021165.1	Ca_Kabuli_Chr06	34144975	AA	GG	GG	INTERGENIC			
SNP_43032_A_34145005	NC_021165.1	Ca_Kabuli_Chr06	34145005	TT	GG	GG	INTERGENIC			
SNP_43033_A_34145096	NC_021165.1	Ca_Kabuli_Chr06	34145096	AA	TT	TT	INTERGENIC			
SNP_43034_A_34162115	NC_021165.1	Ca_Kabuli_Chr06	34162115	AA	GG	GG	INTERGENIC			
SNP_43035_A_34162270	NC_021165.1	Ca_Kabuli_Chr06	34162270	TT	AA	AA	INTERGENIC			
SNP_43036_A_34162299	NC_021165.1	Ca_Kabuli_Chr06	34162299	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43037_A_34162372	NC_021165.1	Ca_Kabuli_Chr06	34162372	AA	CC	CC	INTERGENIC			
SNP_43038_A_34164271	NC_021165.1	Ca_Kabuli_Chr06	34164271	CC	TT	TT	INTERGENIC			
SNP_43039_A_34164326	NC_021165.1	Ca_Kabuli_Chr06	34164326	TT	CC	CC	INTERGENIC			
SNP_43040_A_34164358	NC_021165.1	Ca_Kabuli_Chr06	34164358	TT	AA	AA	INTERGENIC			
SNP_43041_A_34164361	NC_021165.1	Ca_Kabuli_Chr06	34164361	CC	TT	TT	INTERGENIC			
SNP_43042_A_34164374	NC_021165.1	Ca_Kabuli_Chr06	34164374	TT	AA	AA	INTERGENIC			
SNP_43043_A_34164382	NC_021165.1	Ca_Kabuli_Chr06	34164382	AA	TT	TT	INTERGENIC			
SNP_43044_A_34164405	NC_021165.1	Ca_Kabuli_Chr06	34164405	GG	AA	AA	INTERGENIC			
SNP_43045_A_34164406	NC_021165.1	Ca_Kabuli_Chr06	34164406	TT	CC	CC	INTERGENIC			
SNP_43046_A_34164428	NC_021165.1	Ca_Kabuli_Chr06	34164428	AA	TT	TT	INTERGENIC			
SNP_43047_A_34164493	NC_021165.1	Ca_Kabuli_Chr06	34164493	AA	GG	GG	INTERGENIC			
SNP_43048_A_34164500	NC_021165.1	Ca_Kabuli_Chr06	34164500	CC	AA	AA	INTERGENIC			
SNP_43049_A_34164529	NC_021165.1	Ca_Kabuli_Chr06	34164529	GG	AA	AA	INTERGENIC			
SNP_43050_A_34164542	NC_021165.1	Ca_Kabuli_Chr06	34164542	TT	AA	AA	INTERGENIC			
SNP_43051_A_34164567	NC_021165.1	Ca_Kabuli_Chr06	34164567	CC	AA	AA	INTERGENIC			
SNP_43052_A_34164568	NC_021165.1	Ca_Kabuli_Chr06	34164568	CC	AA	AA	INTERGENIC			
SNP_43053_A_34164641	NC_021165.1	Ca_Kabuli_Chr06	34164641	TT	GG	GG	INTERGENIC			
SNP_43054_A_34164677	NC_021165.1	Ca_Kabuli_Chr06	34164677	GG	AA	AA	INTERGENIC			
SNP_43055_A_34164748	NC_021165.1	Ca_Kabuli_Chr06	34164748	TT	CC	CC	INTERGENIC			
SNP_43056_A_34164785	NC_021165.1	Ca_Kabuli_Chr06	34164785	TT	GG	GG	INTERGENIC			
SNP_43057_A_34164787	NC_021165.1	Ca_Kabuli_Chr06	34164787	AA	GG	GG	INTERGENIC			
SNP_43058_A_34164824	NC_021165.1	Ca_Kabuli_Chr06	34164824	CC	TT	TT	INTERGENIC			

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SNP_43059_A_34164836	NC_021165.1	Ca_Kabuli_Chr06	34164836	CC	AA	AA	INTERGENIC			
SNP_43060_A_34164845	NC_021165.1	Ca_Kabuli_Chr06	34164845	TT	CC	CC	INTERGENIC			
SNP_43061_A_34164856	NC_021165.1	Ca_Kabuli_Chr06	34164856	TT	AA	AA	INTERGENIC			
SNP_43062_A_34164875	NC_021165.1	Ca_Kabuli_Chr06	34164875	GG	AA	AA	INTERGENIC			
SNP_43063_A_34164899	NC_021165.1	Ca_Kabuli_Chr06	34164899	TT	AA	AA	INTERGENIC			
SNP_43064_A_34164922	NC_021165.1	Ca_Kabuli_Chr06	34164922	CC	AA	AA	INTERGENIC			
SNP_43065_A_34164940	NC_021165.1	Ca_Kabuli_Chr06	34164940	CC	TT	TT	INTERGENIC			
SNP_43066_A_34164985	NC_021165.1	Ca_Kabuli_Chr06	34164985	TT	CC	CC	INTERGENIC			
SNP_43067_A_34165392	NC_021165.1	Ca_Kabuli_Chr06	34165392	AA	GG	GG	INTERGENIC			
SNP_43068_A_34169550	NC_021165.1	Ca_Kabuli_Chr06	34169550	GG	AA	AA	INTERGENIC			
SNP_43070_A_34288172	NC_021165.1	Ca_Kabuli_Chr06	34288172	CC	TT	TT	INTRON	101513080	Unknown function	
SNP_43071_A_34288873	NC_021165.1	Ca_Kabuli_Chr06	34288873	GG	TT	TT	INTRON	101513080	Unknown function	
SNP_43072_A_34288884	NC_021165.1	Ca_Kabuli_Chr06	34288884	TT	CC	CC	INTRON	101513080	Unknown function	
SNP_43073_A_34292494	NC_021165.1	Ca_Kabuli_Chr06	34292494	TT	CC	CC	INTERGENIC			
SNP_43074_A_34337927	NC_021165.1	Ca_Kabuli_Chr06	34337927	GG	AA	AA	INTERGENIC			
SNP_43075_A_34469248	NC_021165.1	Ca_Kabuli_Chr06	34469248	TT	CC	CC	INTERGENIC			
SNP_43076_A_34511102	NC_021165.1	Ca_Kabuli_Chr06	34511102	GG	AA	AA	INTERGENIC			
SNP_43077_A_34513886	NC_021165.1	Ca_Kabuli_Chr06	34513886	CC	TT	TT	INTERGENIC			
SNP_43078_A_34553892	NC_021165.1	Ca_Kabuli_Chr06	34553892	AA	GG	GG	URR	101514712	putative glycerol-3-phosphate transporter 1	
SNP_43079_A_34564408	NC_021165.1	Ca_Kabuli_Chr06	34564408	TT	AA	AA	INTERGENIC			
SNP_43080_A_34564409	NC_021165.1	Ca_Kabuli_Chr06	34564409	AA	TT	TT	INTERGENIC			
SNP_43081_A_34564592	NC_021165.1	Ca_Kabuli_Chr06	34564592	AA	GG	GG	INTERGENIC			

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SNP_43083_A_34567840	NC_021165.1	Ca_Kabuli_Chr06	34567840	AA	TT	TT	INTERGENIC			
SNP_43084_A_34567868	NC_021165.1	Ca_Kabuli_Chr06	34567868	AA	GG	GG	INTERGENIC			
SNP_43085_A_34567915	NC_021165.1	Ca_Kabuli_Chr06	34567915	TT	AA	AA	INTERGENIC			
SNP_43086_A_34569991	NC_021165.1	Ca_Kabuli_Chr06	34569991	TT	AA	AA	INTERGENIC			
SNP_43087_A_34570076	NC_021165.1	Ca_Kabuli_Chr06	34570076	TT	CC	CC	INTERGENIC			
SNP_43089_A_34570354	NC_021165.1	Ca_Kabuli_Chr06	34570354	GG	AA	AA	INTERGENIC			
SNP_43090_A_34606260	NC_021165.1	Ca_Kabuli_Chr06	34606260	TT	CC	CC	INTERGENIC			
SNP_43091_A_34614916	NC_021165.1	Ca_Kabuli_Chr06	34614916	TT	CC	CC	INTERGENIC			
SNP_43092_A_34662202	NC_021165.1	Ca_Kabuli_Chr06	34662202	GG	AA	AA	INTERGENIC			
SNP_43093_A_34662207	NC_021165.1	Ca_Kabuli_Chr06	34662207	AA	TT	TT	INTERGENIC			
SNP_43094_A_34684202	NC_021165.1	Ca_Kabuli_Chr06	34684202	GG	AA	AA	INTERGENIC			
SNP_43095_A_34684384	NC_021165.1	Ca_Kabuli_Chr06	34684384	TT	CC	CC	INTERGENIC			
SNP_43096_A_34684473	NC_021165.1	Ca_Kabuli_Chr06	34684473	TT	CC	CC	INTERGENIC			
SNP_43097_A_34684675	NC_021165.1	Ca_Kabuli_Chr06	34684675	AA	CC	CC	INTERGENIC			
SNP_43098_A_34684676	NC_021165.1	Ca_Kabuli_Chr06	34684676	AA	TT	TT	INTERGENIC			
SNP_43099_A_34684677	NC_021165.1	Ca_Kabuli_Chr06	34684677	CC	TT	TT	INTERGENIC			
SNP_43100_A_34684679	NC_021165.1	Ca_Kabuli_Chr06	34684679	TT	GG	GG	INTERGENIC			
SNP_43101_A_34684722	NC_021165.1	Ca_Kabuli_Chr06	34684722	TT	AA	AA	INTERGENIC			
SNP_43102_A_34724464	NC_021165.1	Ca_Kabuli_Chr06	34724464	TT	CC	CC	INTRON	101501407	zinc finger CCH domain-containing protein 6-like	
SNP_43105_A_34799564	NC_021165.1	Ca_Kabuli_Chr06	34799564	AA	GG	GG	INTERGENIC			
SNP_43106_A_34799938	NC_021165.1	Ca_Kabuli_Chr06	34799938	AA	GG	GG	INTERGENIC			
SNP_43107_A_34799954	NC_021165.1	Ca_Kabuli_Chr06	34799954	GG	AA	AA	INTERGENIC			

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SNP_43108_A_34809850	NC_021165.1	Ca_Kabuli_Chr06	34809850	CC	TT	TT	INTERGENIC		
SNP_43109_A_34810092	NC_021165.1	Ca_Kabuli_Chr06	34810092	GG	CC	CC	INTERGENIC		
SNP_43110_A_34810098	NC_021165.1	Ca_Kabuli_Chr06	34810098	TT	CC	CC	INTERGENIC		
SNP_43111_A_34810125	NC_021165.1	Ca_Kabuli_Chr06	34810125	GG	TT	TT	INTERGENIC		
SNP_43112_A_34810217	NC_021165.1	Ca_Kabuli_Chr06	34810217	GG	CC	CC	INTERGENIC		
SNP_43113_A_34810227	NC_021165.1	Ca_Kabuli_Chr06	34810227	CC	AA	AA	INTERGENIC		
SNP_43114_A_34814204	NC_021165.1	Ca_Kabuli_Chr06	34814204	GG	CC	CC	INTERGENIC		
SNP_43115_A_34814562	NC_021165.1	Ca_Kabuli_Chr06	34814562	TT	CC	CC	INTERGENIC		
SNP_43116_A_34814656	NC_021165.1	Ca_Kabuli_Chr06	34814656	AA	GG	GG	INTERGENIC		
SNP_43117_A_34814693	NC_021165.1	Ca_Kabuli_Chr06	34814693	TT	CC	CC	INTERGENIC		
SNP_43118_A_34814718	NC_021165.1	Ca_Kabuli_Chr06	34814718	GG	AA	AA	INTERGENIC		
SNP_43119_A_34816146	NC_021165.1	Ca_Kabuli_Chr06	34816146	GG	AA	AA	INTERGENIC		
SNP_43120_A_34819287	NC_021165.1	Ca_Kabuli_Chr06	34819287	TT	AA	AA	DRR	101503232	polygalacturonase-like
SNP_43121_A_34843624	NC_021165.1	Ca_Kabuli_Chr06	34843624	CC	TT	TT	INTERGENIC		
SNP_43123_A_34862527	NC_021165.1	Ca_Kabuli_Chr06	34862527	GG	TT	TT	INTERGENIC		
SNP_43124_A_34866357	NC_021165.1	Ca_Kabuli_Chr06	34866357	TT	AA	AA	INTERGENIC		
SNP_43125_A_34871227	NC_021165.1	Ca_Kabuli_Chr06	34871227	GG	TT	TT	INTERGENIC		
SNP_43126_A_34874329	NC_021165.1	Ca_Kabuli_Chr06	34874329	CC	TT	TT	INTERGENIC		
SNP_43127_A_34874846	NC_021165.1	Ca_Kabuli_Chr06	34874846	TT	AA	AA	INTERGENIC		
SNP_43128_A_34924243	NC_021165.1	Ca_Kabuli_Chr06	34924243	CC	TT	TT	INTRON	101488452	serine/threonine-protein phosphatase 7 long form homolog
SNP_43130_A_34956521	NC_021165.1	Ca_Kabuli_Chr06	34956521	CC	GG	GG	INTERGENIC		
SNP_43131_A_34956888	NC_021165.1	Ca_Kabuli_Chr06	34956888	AA	GG	GG	INTERGENIC		

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SNP_43132_A_34981114	NC_021165.1	Ca_Kabuli_Chr06	34981114	AA	GG	GG	URR	101504402	ubiquitin carboxyl-terminal hydrolase 24
SNP_43133_A_35116750	NC_021165.1	Ca_Kabuli_Chr06	35116750	CC	TT	TT	INTERGENIC		
SNP_43134_A_35161346	NC_021165.1	Ca_Kabuli_Chr06	35161346	GG	AA	AA	INTERGENIC		
SNP_43135_A_35161466	NC_021165.1	Ca_Kabuli_Chr06	35161466	AA	GG	GG	INTERGENIC		
SNP_43136_A_35161598	NC_021165.1	Ca_Kabuli_Chr06	35161598	AA	CC	CC	INTERGENIC		
SNP_43137_A_35161619	NC_021165.1	Ca_Kabuli_Chr06	35161619	AA	GG	GG	INTERGENIC		
SNP_43138_A_35161771	NC_021165.1	Ca_Kabuli_Chr06	35161771	TT	CC	CC	INTERGENIC		
SNP_43139_A_35161784	NC_021165.1	Ca_Kabuli_Chr06	35161784	CC	TT	TT	INTERGENIC		
SNP_43140_A_35161789	NC_021165.1	Ca_Kabuli_Chr06	35161789	AA	GG	GG	INTERGENIC		
SNP_43142_A_35161839	NC_021165.1	Ca_Kabuli_Chr06	35161839	GG	AA	AA	INTERGENIC		
SNP_43143_A_35161860	NC_021165.1	Ca_Kabuli_Chr06	35161860	TT	AA	AA	INTERGENIC		
SNP_43144_A_35161871	NC_021165.1	Ca_Kabuli_Chr06	35161871	GG	AA	AA	INTERGENIC		
SNP_43145_A_35161888	NC_021165.1	Ca_Kabuli_Chr06	35161888	CC	TT	TT	INTERGENIC		
SNP_43146_A_35161891	NC_021165.1	Ca_Kabuli_Chr06	35161891	TT	CC	CC	INTERGENIC		
SNP_43147_A_35167598	NC_021165.1	Ca_Kabuli_Chr06	35167598	AA	GG	GG	INTERGENIC		
SNP_43148_A_35168288	NC_021165.1	Ca_Kabuli_Chr06	35168288	TT	CC	CC	INTERGENIC		
SNP_43149_A_35168290	NC_021165.1	Ca_Kabuli_Chr06	35168290	AA	GG	GG	INTERGENIC		
SNP_43150_A_35168347	NC_021165.1	Ca_Kabuli_Chr06	35168347	AA	TT	TT	INTERGENIC		
SNP_43151_A_35185517	NC_021165.1	Ca_Kabuli_Chr06	35185517	AA	GG	GG	INTRON	101506450	probable beta-1,3-galactosyltransferase 8
SNP_43152_A_35206687	NC_021165.1	Ca_Kabuli_Chr06	35206687	TT	GG	GG	INTERGENIC		
SNP_43153_A_35228506	NC_021165.1	Ca_Kabuli_Chr06	35228506	AA	TT	TT	INTERGENIC		
SNP_43154_A_35254752	NC_021165.1	Ca_Kabuli_Chr06	35254752	TT	CC	CC	INTRON	101489451	ethylene-responsive transcription factor ERF043-like

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SNP_43155_A_35255101	NC_021165.1	Ca_Kabuli_Chr06	35255101	GG	AA	AA	INTRON	101489451	ethylene-responsive transcription factor ERF043-like
SNP_43156_A_35264581	NC_021165.1	Ca_Kabuli_Chr06	35264581	CC	TT	TT	INTRON	101489451	ethylene-responsive transcription factor ERF043-like
SNP_43157_A_35312939	NC_021165.1	Ca_Kabuli_Chr06	35312939	AA	TT	TT	INTERGENIC		
SNP_43158_A_35316983	NC_021165.1	Ca_Kabuli_Chr06	35316983	GG	AA	AA	INTERGENIC		
SNP_43159_A_35316991	NC_021165.1	Ca_Kabuli_Chr06	35316991	AA	TT	TT	INTERGENIC		
SNP_43160_A_35357598	NC_021165.1	Ca_Kabuli_Chr06	35357598	TT	CC	CC	INTERGENIC		
SNP_43161_A_35357614	NC_021165.1	Ca_Kabuli_Chr06	35357614	CC	TT	TT	INTERGENIC		
SNP_43162_A_35363637	NC_021165.1	Ca_Kabuli_Chr06	35363637	AA	GG	GG	INTERGENIC		
SNP_43163_A_35363652	NC_021165.1	Ca_Kabuli_Chr06	35363652	CC	TT	TT	INTERGENIC		
SNP_43164_A_35363698	NC_021165.1	Ca_Kabuli_Chr06	35363698	CC	TT	TT	INTERGENIC		
SNP_43165_A_35367038	NC_021165.1	Ca_Kabuli_Chr06	35367038	GG	TT	TT	INTERGENIC		
SNP_43166_A_35367039	NC_021165.1	Ca_Kabuli_Chr06	35367039	AA	TT	TT	INTERGENIC		
SNP_43167_A_35375554	NC_021165.1	Ca_Kabuli_Chr06	35375554	TT	GG	GG	INTERGENIC		
SNP_43168_A_35375561	NC_021165.1	Ca_Kabuli_Chr06	35375561	GG	AA	AA	INTERGENIC		
SNP_43170_A_35419704	NC_021165.1	Ca_Kabuli_Chr06	35419704	AA	GG	GG	INTERGENIC		
SNP_43171_A_35419729	NC_021165.1	Ca_Kabuli_Chr06	35419729	CC	TT	TT	INTERGENIC		
SNP_43172_A_35444233	NC_021165.1	Ca_Kabuli_Chr06	35444233	TT	CC	CC	INTERGENIC		
SNP_43173_A_35461767	NC_021165.1	Ca_Kabuli_Chr06	35461767	TT	GG	GG	INTERGENIC		
SNP_43174_A_35461773	NC_021165.1	Ca_Kabuli_Chr06	35461773	AA	TT	TT	INTERGENIC		
SNP_43176_A_35541928	NC_021165.1	Ca_Kabuli_Chr06	35541928	GG	AA	AA	INTERGENIC		
SNP_43177_A_35573611	NC_021165.1	Ca_Kabuli_Chr06	35573611	AA	GG	GG	INTERGENIC		
SNP_43178_A_35596078	NC_021165.1	Ca_Kabuli_Chr06	35596078	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43179_A_35596131	NC_021165.1	Ca_Kabuli_Chr06	35596131	AA	CC	CC	INTERGENIC		
SNP_43180_A_35608863	NC_021165.1	Ca_Kabuli_Chr06	35608863	CC	GG	GG	INTERGENIC		
SNP_43182_A_35704894	NC_021165.1	Ca_Kabuli_Chr06	35704894	AA	GG	GG	URR	101491378	Unknown function
SNP_43183_A_35704921	NC_021165.1	Ca_Kabuli_Chr06	35704921	TT	CC	CC	URR	101491378	Unknown function
SNP_43184_A_35704942	NC_021165.1	Ca_Kabuli_Chr06	35704942	AA	GG	GG	URR	101491378	Unknown function
SNP_43185_A_35704957	NC_021165.1	Ca_Kabuli_Chr06	35704957	AA	GG	GG	URR	101491378	Unknown function
SNP_43186_A_35704979	NC_021165.1	Ca_Kabuli_Chr06	35704979	TT	CC	CC	URR	101491378	Unknown function
SNP_43187_A_35704980	NC_021165.1	Ca_Kabuli_Chr06	35704980	GG	CC	CC	URR	101491378	Unknown function
SNP_43188_A_35705011	NC_021165.1	Ca_Kabuli_Chr06	35705011	CC	TT	TT	URR	101491378	Unknown function
SNP_43189_A_35705036	NC_021165.1	Ca_Kabuli_Chr06	35705036	GG	TT	TT	URR	101491378	Unknown function
SNP_43190_A_35705047	NC_021165.1	Ca_Kabuli_Chr06	35705047	TT	CC	CC	URR	101491378	Unknown function
SNP_43191_A_35705068	NC_021165.1	Ca_Kabuli_Chr06	35705068	AA	GG	GG	URR	101491378	Unknown function
SNP_43192_A_35705072	NC_021165.1	Ca_Kabuli_Chr06	35705072	TT	GG	GG	URR	101491378	Unknown function
SNP_43193_A_35705099	NC_021165.1	Ca_Kabuli_Chr06	35705099	TT	CC	CC	URR	101491378	Unknown function
SNP_43194_A_35705128	NC_021165.1	Ca_Kabuli_Chr06	35705128	TT	GG	GG	URR	101491378	Unknown function
SNP_43195_A_35705207	NC_021165.1	Ca_Kabuli_Chr06	35705207	TT	GG	GG	URR	101491378	Unknown function
SNP_43196_A_35705237	NC_021165.1	Ca_Kabuli_Chr06	35705237	GG	TT	TT	URR	101491378	Unknown function
SNP_43197_A_35705241	NC_021165.1	Ca_Kabuli_Chr06	35705241	TT	CC	CC	URR	101491378	Unknown function
SNP_43198_A_35705258	NC_021165.1	Ca_Kabuli_Chr06	35705258	TT	GG	GG	URR	101491378	Unknown function
SNP_43199_A_35705278	NC_021165.1	Ca_Kabuli_Chr06	35705278	AA	CC	CC	URR	101491378	Unknown function
SNP_43200_A_35705301	NC_021165.1	Ca_Kabuli_Chr06	35705301	TT	CC	CC	URR	101491378	Unknown function
SNP_43201_A_35705491	NC_021165.1	Ca_Kabuli_Chr06	35705491	TT	CC	CC	URR	101491378	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43202_A_35705621	NC_021165.1	Ca_Kabuli_Chr06	35705621	AA	GG	GG	URR	101491378	Unknown function
SNP_43203_A_35705842	NC_021165.1	Ca_Kabuli_Chr06	35705842	AA	TT	TT	URR	101491378	Unknown function
SNP_43204_A_35705843	NC_021165.1	Ca_Kabuli_Chr06	35705843	TT	AA	AA	URR	101491378	Unknown function
SNP_43206_A_35765621	NC_021165.1	Ca_Kabuli_Chr06	35765621	CC	TT	TT	URR	101509859	phospholipase SGR2
SNP_43208_A_35771466	NC_021165.1	Ca_Kabuli_Chr06	35771466	GG	CC	CC	INTERGENIC		
SNP_43209_A_35771717	NC_021165.1	Ca_Kabuli_Chr06	35771717	GG	AA	AA	INTERGENIC		
SNP_43210_A_35771851	NC_021165.1	Ca_Kabuli_Chr06	35771851	AA	GG	GG	INTERGENIC		
SNP_43212_A_35802500	NC_021165.1	Ca_Kabuli_Chr06	35802500	TT	CC	CC	URR	101510832	uncharacterized LOC101510832
SNP_43213_A_35802502	NC_021165.1	Ca_Kabuli_Chr06	35802502	GG	AA	AA	URR	101510832	uncharacterized LOC101510832
SNP_43215_A_35803368	NC_021165.1	Ca_Kabuli_Chr06	35803368	GG	AA	AA	INTERGENIC		
SNP_43216_A_35805862	NC_021165.1	Ca_Kabuli_Chr06	35805862	TT	CC	CC	INTERGENIC		
SNP_43217_A_35806888	NC_021165.1	Ca_Kabuli_Chr06	35806888	AA	GG	GG	DRR	101492679	zinc finger MYM-type protein 1-like
SNP_43218_A_35809324	NC_021165.1	Ca_Kabuli_Chr06	35809324	AA	GG	GG	NON_SYNONYMOUS_CODING	101492679	zinc finger MYM-type protein 1-like
SNP_43219_A_35809448	NC_021165.1	Ca_Kabuli_Chr06	35809448	TT	AA	AA	SYNONYMOUS_CODING	101492679	zinc finger MYM-type protein 1-like
SNP_43220_A_35809507	NC_021165.1	Ca_Kabuli_Chr06	35809507	CC	TT	TT	NON_SYNONYMOUS_CODING	101492679	zinc finger MYM-type protein 1-like
SNP_43222_A_35810795	NC_021165.1	Ca_Kabuli_Chr06	35810795	TT	CC	CC	INTRON	101492679	zinc finger MYM-type protein 1-like
SNP_43223_A_35811042	NC_021165.1	Ca_Kabuli_Chr06	35811042	TT	CC	CC	SYNONYMOUS_CODING	101492679	zinc finger MYM-type protein 1-like
SNP_43224_A_35811506	NC_021165.1	Ca_Kabuli_Chr06	35811506	TT	GG	GG	STOP_GAINED	101492679	zinc finger MYM-type protein 1-like
SNP_43225_A_35811645	NC_021165.1	Ca_Kabuli_Chr06	35811645	AA	CC	CC	NON_SYNONYMOUS_CODING	101492679	zinc finger MYM-type protein 1-like
SNP_43226_A_35811859	NC_021165.1	Ca_Kabuli_Chr06	35811859	CC	TT	TT	URR	101492679	zinc finger MYM-type protein 1-like
SNP_43227_A_35812913	NC_021165.1	Ca_Kabuli_Chr06	35812913	GG	TT	TT	URR	101492679	zinc finger MYM-type protein 1-like
SNP_43228_A_35812959	NC_021165.1	Ca_Kabuli_Chr06	35812959	AA	GG	GG	URR	101492679	zinc finger MYM-type protein 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43229_A_35813310	NC_021165.1	Ca_Kabuli_Chr06	35813310	GG	AA	AA	URR	101492679	zinc finger MYM-type protein 1-like
SNP_43230_A_35817077	NC_021165.1	Ca_Kabuli_Chr06	35817077	AA	CC	CC	INTERGENIC		
SNP_43231_A_35818704	NC_021165.1	Ca_Kabuli_Chr06	35818704	AA	TT	TT	INTERGENIC		
SNP_43232_A_35818709	NC_021165.1	Ca_Kabuli_Chr06	35818709	AA	GG	GG	INTERGENIC		
SNP_43233_A_35820727	NC_021165.1	Ca_Kabuli_Chr06	35820727	AA	GG	GG	INTERGENIC		
SNP_43234_A_35821704	NC_021165.1	Ca_Kabuli_Chr06	35821704	CC	TT	TT	INTERGENIC		
SNP_43235_A_35831590	NC_021165.1	Ca_Kabuli_Chr06	35831590	AA	CC	CC	INTERGENIC		
SNP_43236_A_35831885	NC_021165.1	Ca_Kabuli_Chr06	35831885	GG	AA	AA	INTERGENIC		
SNP_43237_A_35831916	NC_021165.1	Ca_Kabuli_Chr06	35831916	GG	CC	CC	INTERGENIC		
SNP_43238_A_35831924	NC_021165.1	Ca_Kabuli_Chr06	35831924	AA	TT	TT	INTERGENIC		
SNP_43239_A_35832075	NC_021165.1	Ca_Kabuli_Chr06	35832075	AA	GG	GG	INTERGENIC		
SNP_43240_A_35832154	NC_021165.1	Ca_Kabuli_Chr06	35832154	CC	GG	GG	INTERGENIC		
SNP_43241_A_35922038	NC_021165.1	Ca_Kabuli_Chr06	35922038	AA	GG	GG	INTERGENIC		
SNP_43242_A_35922262	NC_021165.1	Ca_Kabuli_Chr06	35922262	AA	GG	GG	INTERGENIC		
SNP_43243_A_35922290	NC_021165.1	Ca_Kabuli_Chr06	35922290	TT	CC	CC	INTERGENIC		
SNP_43244_A_35922310	NC_021165.1	Ca_Kabuli_Chr06	35922310	TT	GG	GG	INTERGENIC		
SNP_43245_A_35922311	NC_021165.1	Ca_Kabuli_Chr06	35922311	TT	CC	CC	INTERGENIC		
SNP_43246_A_35922358	NC_021165.1	Ca_Kabuli_Chr06	35922358	AA	CC	CC	INTERGENIC		
SNP_43247_A_35971132	NC_021165.1	Ca_Kabuli_Chr06	35971132	GG	AA	AA	INTRON	101511789	protein NRT1/ PTR FAMILY 5.10-like
SNP_43248_A_35998757	NC_021165.1	Ca_Kabuli_Chr06	35998757	CC	AA	AA	INTERGENIC		
SNP_43249_A_35999053	NC_021165.1	Ca_Kabuli_Chr06	35999053	GG	CC	CC	INTERGENIC		
SNP_43250_A_36000241	NC_021165.1	Ca_Kabuli_Chr06	36000241	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43251_A_36000783	NC_021165.1	Ca_Kabuli_Chr06	36000783	GG	AA	AA	INTERGENIC			
SNP_43252_A_36000791	NC_021165.1	Ca_Kabuli_Chr06	36000791	GG	TT	TT	INTERGENIC			
SNP_43253_A_36000807	NC_021165.1	Ca_Kabuli_Chr06	36000807	AA	GG	GG	INTERGENIC			
SNP_43254_A_36028000	NC_021165.1	Ca_Kabuli_Chr06	36028000	GG	AA	AA	INTERGENIC			
SNP_43255_A_36029339	NC_021165.1	Ca_Kabuli_Chr06	36029339	TT	GG	GG	INTERGENIC			
SNP_43256_A_36029575	NC_021165.1	Ca_Kabuli_Chr06	36029575	CC	TT	TT	INTERGENIC			
SNP_43259_A_36039680	NC_021165.1	Ca_Kabuli_Chr06	36039680	AA	CC	CC	INTERGENIC			
SNP_43260_A_36039777	NC_021165.1	Ca_Kabuli_Chr06	36039777	AA	TT	TT	INTERGENIC			
SNP_43261_A_36062149	NC_021165.1	Ca_Kabuli_Chr06	36062149	TT	CC	CC	INTERGENIC			
SNP_43262_A_36067557	NC_021165.1	Ca_Kabuli_Chr06	36067557	CC	TT	TT	INTERGENIC			
SNP_43263_A_36067565	NC_021165.1	Ca_Kabuli_Chr06	36067565	AA	GG	GG	INTERGENIC			
SNP_43264_A_36070365	NC_021165.1	Ca_Kabuli_Chr06	36070365	AA	GG	GG	INTERGENIC			
SNP_43265_A_36070372	NC_021165.1	Ca_Kabuli_Chr06	36070372	TT	CC	CC	INTERGENIC			
SNP_43266_A_36070949	NC_021165.1	Ca_Kabuli_Chr06	36070949	AA	GG	GG	INTERGENIC			
SNP_43267_A_36083697	NC_021165.1	Ca_Kabuli_Chr06	36083697	TT	CC	CC	INTERGENIC			
SNP_43268_A_36083781	NC_021165.1	Ca_Kabuli_Chr06	36083781	TT	CC	CC	INTERGENIC			
SNP_43269_A_36083811	NC_021165.1	Ca_Kabuli_Chr06	36083811	GG	AA	AA	INTERGENIC			
SNP_43270_A_36083851	NC_021165.1	Ca_Kabuli_Chr06	36083851	TT	GG	GG	INTERGENIC			
SNP_43271_A_36083870	NC_021165.1	Ca_Kabuli_Chr06	36083870	TT	CC	CC	INTERGENIC			
SNP_43272_A_36083872	NC_021165.1	Ca_Kabuli_Chr06	36083872	AA	GG	GG	INTERGENIC			
SNP_43274_A_36246471	NC_021165.1	Ca_Kabuli_Chr06	36246471	TT	GG	GG	URR		101499094	uncharacterized LOC101499094
SNP_43275_A_36246507	NC_021165.1	Ca_Kabuli_Chr06	36246507	GG	AA	AA	URR		101499094	uncharacterized LOC101499094

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43276_A_36246516	NC_021165.1	Ca_Kabuli_Chr06	36246516	AA	GG	GG	URR	101499094	uncharacterized LOC101499094
SNP_43277_A_36272361	NC_021165.1	Ca_Kabuli_Chr06	36272361	GG	AA	AA	URR	101499716	uncharacterized LOC101499716
SNP_43279_A_36287151	NC_021165.1	Ca_Kabuli_Chr06	36287151	GG	AA	AA	INTERGENIC		
SNP_43280_A_36339307	NC_021165.1	Ca_Kabuli_Chr06	36339307	AA	GG	GG	INTERGENIC		
SNP_43281_A_36346232	NC_021165.1	Ca_Kabuli_Chr06	36346232	CC	TT	TT	INTERGENIC		
SNP_43282_A_36346924	NC_021165.1	Ca_Kabuli_Chr06	36346924	TT	CC	CC	INTERGENIC		
SNP_43283_A_36389233	NC_021165.1	Ca_Kabuli_Chr06	36389233	GG	AA	AA	INTERGENIC		
SNP_43284_A_36389247	NC_021165.1	Ca_Kabuli_Chr06	36389247	CC	TT	TT	INTERGENIC		
SNP_43285_A_36406262	NC_021165.1	Ca_Kabuli_Chr06	36406262	CC	TT	TT	INTERGENIC		
SNP_43286_A_36406275	NC_021165.1	Ca_Kabuli_Chr06	36406275	AA	GG	GG	INTERGENIC		
SNP_43287_A_36412118	NC_021165.1	Ca_Kabuli_Chr06	36412118	TT	CC	CC	INTERGENIC		
SNP_43288_A_36412545	NC_021165.1	Ca_Kabuli_Chr06	36412545	CC	TT	TT	INTERGENIC		
SNP_43289_A_36412623	NC_021165.1	Ca_Kabuli_Chr06	36412623	AA	GG	GG	INTERGENIC		
SNP_43290_A_36412956	NC_021165.1	Ca_Kabuli_Chr06	36412956	CC	TT	TT	INTERGENIC		
SNP_43291_A_36450470	NC_021165.1	Ca_Kabuli_Chr06	36450470	TT	CC	CC	INTERGENIC		
SNP_43292_A_36450508	NC_021165.1	Ca_Kabuli_Chr06	36450508	GG	AA	AA	INTERGENIC		
SNP_43293_A_36450683	NC_021165.1	Ca_Kabuli_Chr06	36450683	AA	CC	CC	INTERGENIC		
SNP_43294_A_36450821	NC_021165.1	Ca_Kabuli_Chr06	36450821	AA	GG	GG	INTERGENIC		
SNP_43296_A_36487675	NC_021165.1	Ca_Kabuli_Chr06	36487675	AA	GG	GG	INTERGENIC		
SNP_43297_A_36487708	NC_021165.1	Ca_Kabuli_Chr06	36487708	CC	TT	TT	INTERGENIC		
SNP_43298_A_36488015	NC_021165.1	Ca_Kabuli_Chr06	36488015	AA	CC	CC	INTERGENIC		
SNP_43299_A_36488091	NC_021165.1	Ca_Kabuli_Chr06	36488091	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43300_A_36488097	NC_021165.1	Ca_Kabuli_Chr06	36488097	AA	GG	GG	INTERGENIC			
SNP_43301_A_36488115	NC_021165.1	Ca_Kabuli_Chr06	36488115	GG	AA	AA	INTERGENIC			
SNP_43302_A_36490737	NC_021165.1	Ca_Kabuli_Chr06	36490737	CC	TT	TT	INTERGENIC			
SNP_43304_A_36491192	NC_021165.1	Ca_Kabuli_Chr06	36491192	TT	CC	CC	INTERGENIC			
SNP_43305_A_36491272	NC_021165.1	Ca_Kabuli_Chr06	36491272	TT	CC	CC	INTERGENIC			
SNP_43306_A_36491288	NC_021165.1	Ca_Kabuli_Chr06	36491288	TT	CC	CC	INTERGENIC			
SNP_43307_A_36491314	NC_021165.1	Ca_Kabuli_Chr06	36491314	CC	TT	TT	INTERGENIC			
SNP_43308_A_36491329	NC_021165.1	Ca_Kabuli_Chr06	36491329	CC	GG	GG	INTERGENIC			
SNP_43309_A_36497964	NC_021165.1	Ca_Kabuli_Chr06	36497964	AA	GG	GG	INTERGENIC			
SNP_43310_A_36497965	NC_021165.1	Ca_Kabuli_Chr06	36497965	CC	TT	TT	INTERGENIC			
SNP_43311_A_36497974	NC_021165.1	Ca_Kabuli_Chr06	36497974	AA	TT	TT	INTERGENIC			
SNP_43312_A_36497997	NC_021165.1	Ca_Kabuli_Chr06	36497997	TT	CC	CC	INTERGENIC			
SNP_43313_A_36518148	NC_021165.1	Ca_Kabuli_Chr06	36518148	CC	AA	AA	INTERGENIC			
SNP_43314_A_36518463	NC_021165.1	Ca_Kabuli_Chr06	36518463	TT	CC	CC	INTERGENIC			
SNP_43315_A_36518519	NC_021165.1	Ca_Kabuli_Chr06	36518519	TT	CC	CC	INTERGENIC			
SNP_43316_A_36518544	NC_021165.1	Ca_Kabuli_Chr06	36518544	TT	CC	CC	INTERGENIC			
SNP_43317_A_36520424	NC_021165.1	Ca_Kabuli_Chr06	36520424	GG	TT	TT	INTERGENIC			
SNP_43318_A_36555464	NC_021165.1	Ca_Kabuli_Chr06	36555464	TT	CC	CC	URR	101510179	Unknown function	
SNP_43319_A_36559548	NC_021165.1	Ca_Kabuli_Chr06	36559548	CC	AA	AA	INTERGENIC			
SNP_43320_A_36559557	NC_021165.1	Ca_Kabuli_Chr06	36559557	TT	AA	AA	INTERGENIC			
SNP_43321_A_36597870	NC_021165.1	Ca_Kabuli_Chr06	36597870	CC	TT	TT	DRR	101501935	uncharacterized LOC101501935	
SNP_43322_A_36619765	NC_021165.1	Ca_Kabuli_Chr06	36619765	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43323_A_36642628	NC_021165.1	Ca_Kabuli_Chr06	36642628	TT	GG	GG	INTERGENIC			
SNP_43324_A_36651991	NC_021165.1	Ca_Kabuli_Chr06	36651991	CC	AA	AA	INTERGENIC			
SNP_43325_A_36671413	NC_021165.1	Ca_Kabuli_Chr06	36671413	TT	AA	AA	INTERGENIC			
SNP_43326_A_36716619	NC_021165.1	Ca_Kabuli_Chr06	36716619	TT	AA	AA	INTERGENIC			
SNP_43327_A_36716620	NC_021165.1	Ca_Kabuli_Chr06	36716620	TT	AA	AA	INTERGENIC			
SNP_43328_A_36721206	NC_021165.1	Ca_Kabuli_Chr06	36721206	CC	TT	TT	INTERGENIC			
SNP_43329_A_36722301	NC_021165.1	Ca_Kabuli_Chr06	36722301	GG	AA	AA	INTERGENIC			
SNP_43332_A_36722678	NC_021165.1	Ca_Kabuli_Chr06	36722678	AA	TT	TT	INTERGENIC			
SNP_43333_A_36723493	NC_021165.1	Ca_Kabuli_Chr06	36723493	CC	TT	TT	INTERGENIC			
SNP_43334_A_36773762	NC_021165.1	Ca_Kabuli_Chr06	36773762	AA	GG	GG	INTERGENIC			
SNP_43335_A_36773782	NC_021165.1	Ca_Kabuli_Chr06	36773782	AA	GG	GG	INTERGENIC			
SNP_43336_A_36773804	NC_021165.1	Ca_Kabuli_Chr06	36773804	TT	GG	GG	INTERGENIC			
SNP_43337_A_36774113	NC_021165.1	Ca_Kabuli_Chr06	36774113	AA	GG	GG	INTERGENIC			
SNP_43338_A_36783745	NC_021165.1	Ca_Kabuli_Chr06	36783745	AA	GG	GG	INTERGENIC			
SNP_43339_A_36783746	NC_021165.1	Ca_Kabuli_Chr06	36783746	TT	CC	CC	INTERGENIC			
SNP_43340_A_36783751	NC_021165.1	Ca_Kabuli_Chr06	36783751	AA	TT	TT	INTERGENIC			
SNP_43341_A_36783758	NC_021165.1	Ca_Kabuli_Chr06	36783758	CC	TT	TT	INTERGENIC			
SNP_43342_A_36783783	NC_021165.1	Ca_Kabuli_Chr06	36783783	TT	CC	CC	INTERGENIC			
SNP_43343_A_36784116	NC_021165.1	Ca_Kabuli_Chr06	36784116	CC	TT	TT	INTERGENIC			
SNP_43344_A_36784119	NC_021165.1	Ca_Kabuli_Chr06	36784119	AA	CC	CC	INTERGENIC			
SNP_43345_A_36784137	NC_021165.1	Ca_Kabuli_Chr06	36784137	AA	GG	GG	INTERGENIC			
SNP_43346_A_36786160	NC_021165.1	Ca_Kabuli_Chr06	36786160	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43347_A_36786225	NC_021165.1	Ca_Kabuli_Chr06	36786225	TT	CC	CC	INTERGENIC			
SNP_43348_A_36786263	NC_021165.1	Ca_Kabuli_Chr06	36786263	CC	GG	GG	INTERGENIC			
SNP_43349_A_36786318	NC_021165.1	Ca_Kabuli_Chr06	36786318	TT	CC	CC	INTERGENIC			
SNP_43350_A_36786325	NC_021165.1	Ca_Kabuli_Chr06	36786325	CC	TT	TT	INTERGENIC			
SNP_43351_A_36786409	NC_021165.1	Ca_Kabuli_Chr06	36786409	CC	TT	TT	INTERGENIC			
SNP_43352_A_36789462	NC_021165.1	Ca_Kabuli_Chr06	36789462	AA	GG	GG	INTERGENIC			
SNP_43353_A_36789502	NC_021165.1	Ca_Kabuli_Chr06	36789502	CC	GG	GG	INTERGENIC			
SNP_43354_A_36789577	NC_021165.1	Ca_Kabuli_Chr06	36789577	AA	GG	GG	INTERGENIC			
SNP_43355_A_36800068	NC_021165.1	Ca_Kabuli_Chr06	36800068	AA	CC	CC	INTERGENIC			
SNP_43356_A_36845477	NC_021165.1	Ca_Kabuli_Chr06	36845477	TT	CC	CC	INTERGENIC			
SNP_43357_A_36869231	NC_021165.1	Ca_Kabuli_Chr06	36869231	AA	CC	CC	INTERGENIC			
SNP_43359_A_36890961	NC_021165.1	Ca_Kabuli_Chr06	36890961	TT	CC	CC	INTERGENIC			
SNP_43360_A_36893091	NC_021165.1	Ca_Kabuli_Chr06	36893091	GG	AA	AA	INTERGENIC			
SNP_43361_A_36893113	NC_021165.1	Ca_Kabuli_Chr06	36893113	CC	AA	AA	INTERGENIC			
SNP_43362_A_36893140	NC_021165.1	Ca_Kabuli_Chr06	36893140	CC	AA	AA	INTERGENIC			
SNP_43363_A_36893148	NC_021165.1	Ca_Kabuli_Chr06	36893148	TT	AA	AA	INTERGENIC			
SNP_43364_A_36893205	NC_021165.1	Ca_Kabuli_Chr06	36893205	CC	AA	AA	INTERGENIC			
SNP_43365_A_36893210	NC_021165.1	Ca_Kabuli_Chr06	36893210	TT	CC	CC	INTERGENIC			
SNP_43366_A_36893273	NC_021165.1	Ca_Kabuli_Chr06	36893273	GG	AA	AA	INTERGENIC			
SNP_43367_A_36893286	NC_021165.1	Ca_Kabuli_Chr06	36893286	TT	AA	AA	INTERGENIC			
SNP_43368_A_36893293	NC_021165.1	Ca_Kabuli_Chr06	36893293	CC	AA	AA	INTERGENIC			
SNP_43369_A_36893297	NC_021165.1	Ca_Kabuli_Chr06	36893297	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43372_A_37001398	NC_021165.1	Ca_Kabuli_Chr06	37001398	CC	AA	AA	INTERGENIC			
SNP_43373_A_37009741	NC_021165.1	Ca_Kabuli_Chr06	37009741	TT	CC	CC	INTERGENIC			
SNP_43374_A_37046488	NC_021165.1	Ca_Kabuli_Chr06	37046488	AA	GG	GG	INTERGENIC			
SNP_43375_A_37101321	NC_021165.1	Ca_Kabuli_Chr06	37101321	AA	CC	CC	INTERGENIC			
SNP_43376_A_37101329	NC_021165.1	Ca_Kabuli_Chr06	37101329	AA	TT	TT	INTERGENIC			
SNP_43377_A_37101397	NC_021165.1	Ca_Kabuli_Chr06	37101397	AA	GG	GG	INTERGENIC			
SNP_43378_A_37197708	NC_021165.1	Ca_Kabuli_Chr06	37197708	CC	TT	TT	INTERGENIC			
SNP_43379_A_37197719	NC_021165.1	Ca_Kabuli_Chr06	37197719	AA	GG	GG	INTERGENIC			
SNP_43380_A_37201297	NC_021165.1	Ca_Kabuli_Chr06	37201297	TT	AA	AA	INTERGENIC			
SNP_43381_A_37201333	NC_021165.1	Ca_Kabuli_Chr06	37201333	CC	GG	GG	INTERGENIC			
SNP_43382_A_37221783	NC_021165.1	Ca_Kabuli_Chr06	37221783	TT	CC	CC	INTERGENIC			
SNP_43383_A_37221816	NC_021165.1	Ca_Kabuli_Chr06	37221816	TT	CC	CC	INTERGENIC			
SNP_43384_A_37221830	NC_021165.1	Ca_Kabuli_Chr06	37221830	TT	CC	CC	INTERGENIC			
SNP_43385_A_37221833	NC_021165.1	Ca_Kabuli_Chr06	37221833	AA	GG	GG	INTERGENIC			
SNP_43386_A_37221845	NC_021165.1	Ca_Kabuli_Chr06	37221845	AA	GG	GG	INTERGENIC			
SNP_43387_A_37221862	NC_021165.1	Ca_Kabuli_Chr06	37221862	TT	CC	CC	INTERGENIC			
SNP_43388_A_37221880	NC_021165.1	Ca_Kabuli_Chr06	37221880	AA	GG	GG	INTERGENIC			
SNP_43389_A_37221984	NC_021165.1	Ca_Kabuli_Chr06	37221984	TT	GG	GG	INTERGENIC			
SNP_43390_A_37221995	NC_021165.1	Ca_Kabuli_Chr06	37221995	AA	GG	GG	INTERGENIC			
SNP_43391_A_37222026	NC_021165.1	Ca_Kabuli_Chr06	37222026	TT	CC	CC	INTERGENIC			
SNP_43392_A_37222171	NC_021165.1	Ca_Kabuli_Chr06	37222171	TT	GG	GG	INTERGENIC			
SNP_43393_A_37229747	NC_021165.1	Ca_Kabuli_Chr06	37229747	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43394_A_37230431	NC_021165.1	Ca_Kabuli_Chr06	37230431	CC	TT	TT	INTERGENIC		
SNP_43395_A_37277007	NC_021165.1	Ca_Kabuli_Chr06	37277007	AA	GG	GG	INTERGENIC		
SNP_43396_A_37284152	NC_021165.1	Ca_Kabuli_Chr06	37284152	GG	AA	AA	INTERGENIC		
SNP_43397_A_37295904	NC_021165.1	Ca_Kabuli_Chr06	37295904	AA	GG	GG	INTRON	101512105	Unknown function
SNP_43398_A_37295911	NC_021165.1	Ca_Kabuli_Chr06	37295911	TT	CC	CC	INTRON	101512105	Unknown function
SNP_43399_A_37295927	NC_021165.1	Ca_Kabuli_Chr06	37295927	AA	GG	GG	INTRON	101512105	Unknown function
SNP_43400_A_37295935	NC_021165.1	Ca_Kabuli_Chr06	37295935	AA	GG	GG	INTRON	101512105	Unknown function
SNP_43401_A_37360211	NC_021165.1	Ca_Kabuli_Chr06	37360211	CC	TT	TT	INTERGENIC		
SNP_43402_A_37368274	NC_021165.1	Ca_Kabuli_Chr06	37368274	GG	TT	TT	INTERGENIC		
SNP_43403_A_37403550	NC_021165.1	Ca_Kabuli_Chr06	37403550	AA	GG	GG	INTERGENIC		
SNP_43404_A_37418728	NC_021165.1	Ca_Kabuli_Chr06	37418728	CC	TT	TT	INTERGENIC		
SNP_43405_A_37451308	NC_021165.1	Ca_Kabuli_Chr06	37451308	GG	CC	CC	INTERGENIC		
SNP_43406_A_37452986	NC_021165.1	Ca_Kabuli_Chr06	37452986	GG	TT	TT	INTERGENIC		
SNP_43407_A_37453305	NC_021165.1	Ca_Kabuli_Chr06	37453305	AA	GG	GG	INTERGENIC		
SNP_43408_A_37453340	NC_021165.1	Ca_Kabuli_Chr06	37453340	TT	GG	GG	INTERGENIC		
SNP_43409_A_37453405	NC_021165.1	Ca_Kabuli_Chr06	37453405	TT	CC	CC	INTERGENIC		
SNP_43410_A_37453436	NC_021165.1	Ca_Kabuli_Chr06	37453436	TT	CC	CC	INTERGENIC		
SNP_43411_A_37453464	NC_021165.1	Ca_Kabuli_Chr06	37453464	AA	TT	TT	INTERGENIC		
SNP_43412_A_37453472	NC_021165.1	Ca_Kabuli_Chr06	37453472	TT	CC	CC	INTERGENIC		
SNP_43413_A_37453481	NC_021165.1	Ca_Kabuli_Chr06	37453481	TT	GG	GG	INTERGENIC		
SNP_43414_A_37453492	NC_021165.1	Ca_Kabuli_Chr06	37453492	CC	AA	AA	INTERGENIC		
SNP_43415_A_37453518	NC_021165.1	Ca_Kabuli_Chr06	37453518	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43416_A_37453665	NC_021165.1	Ca_Kabuli_Chr06	37453665	CC	GG	GG	INTERGENIC			
SNP_43417_A_37453667	NC_021165.1	Ca_Kabuli_Chr06	37453667	TT	AA	GG	INTERGENIC			
SNP_43418_A_37453704	NC_021165.1	Ca_Kabuli_Chr06	37453704	AA	CC	CC	INTERGENIC			
SNP_43419_A_37453797	NC_021165.1	Ca_Kabuli_Chr06	37453797	AA	GG	GG	INTERGENIC			
SNP_43420_A_37453827	NC_021165.1	Ca_Kabuli_Chr06	37453827	AA	GG	GG	INTERGENIC			
SNP_43421_A_37453871	NC_021165.1	Ca_Kabuli_Chr06	37453871	AA	GG	GG	INTERGENIC			
SNP_43422_A_37538193	NC_021165.1	Ca_Kabuli_Chr06	37538193	GG	AA	AA	INTERGENIC			
SNP_43423_A_37571381	NC_021165.1	Ca_Kabuli_Chr06	37571381	GG	AA	AA	INTERGENIC			
SNP_43424_A_37609759	NC_021165.1	Ca_Kabuli_Chr06	37609759	AA	TT	TT	INTERGENIC			
SNP_43425_A_37611075	NC_021165.1	Ca_Kabuli_Chr06	37611075	CC	TT	TT	INTERGENIC			
SNP_43426_A_37611146	NC_021165.1	Ca_Kabuli_Chr06	37611146	GG	AA	AA	INTERGENIC			
SNP_43427_A_37613194	NC_021165.1	Ca_Kabuli_Chr06	37613194	AA	CC	CC	INTERGENIC			
SNP_43428_A_37613195	NC_021165.1	Ca_Kabuli_Chr06	37613195	AA	GG	GG	INTERGENIC			
SNP_43429_A_37613207	NC_021165.1	Ca_Kabuli_Chr06	37613207	GG	AA	AA	INTERGENIC			
SNP_43430_A_37613214	NC_021165.1	Ca_Kabuli_Chr06	37613214	GG	AA	AA	INTERGENIC			
SNP_43431_A_37617171	NC_021165.1	Ca_Kabuli_Chr06	37617171	TT	CC	CC	INTERGENIC			
SNP_43432_A_37617358	NC_021165.1	Ca_Kabuli_Chr06	37617358	GG	AA	AA	INTERGENIC			
SNP_43433_A_37621052	NC_021165.1	Ca_Kabuli_Chr06	37621052	CC	TT	TT	INTERGENIC			
SNP_43434_A_37628447	NC_021165.1	Ca_Kabuli_Chr06	37628447	TT	CC	CC	URR	101508260	prosaposin	
SNP_43435_A_37638631	NC_021165.1	Ca_Kabuli_Chr06	37638631	GG	AA	AA	INTERGENIC			
SNP_43436_A_37639019	NC_021165.1	Ca_Kabuli_Chr06	37639019	CC	TT	TT	INTERGENIC			
SNP_43437_A_37639095	NC_021165.1	Ca_Kabuli_Chr06	37639095	AA	CC	CC	INTERGENIC			

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SNP_43438_A_37639174	NC_021165.1	Ca_Kabuli_Chr06	37639174	CC	GG	GG	INTERGENIC			
SNP_43439_A_37639379	NC_021165.1	Ca_Kabuli_Chr06	37639379	GG	AA	AA	INTERGENIC			
SNP_43440_A_37639415	NC_021165.1	Ca_Kabuli_Chr06	37639415	GG	TT	TT	INTERGENIC			
SNP_43441_A_37639435	NC_021165.1	Ca_Kabuli_Chr06	37639435	TT	CC	CC	INTERGENIC			
SNP_43442_A_37639549	NC_021165.1	Ca_Kabuli_Chr06	37639549	AA	GG	GG	INTERGENIC			
SNP_43444_A_37657156	NC_021165.1	Ca_Kabuli_Chr06	37657156	AA	GG	GG	INTERGENIC			
SNP_43445_A_37672648	NC_021165.1	Ca_Kabuli_Chr06	37672648	CC	GG	GG	INTERGENIC			
SNP_43446_A_37673504	NC_021165.1	Ca_Kabuli_Chr06	37673504	TT	GG	GG	INTERGENIC			
SNP_43448_A_37762213	NC_021165.1	Ca_Kabuli_Chr06	37762213	TT	AA	AA	INTERGENIC			
SNP_43449_A_37762281	NC_021165.1	Ca_Kabuli_Chr06	37762281	AA	GG	GG	INTERGENIC			
SNP_43450_A_37763848	NC_021165.1	Ca_Kabuli_Chr06	37763848	TT	AA	AA	INTERGENIC			
SNP_43451_A_37763850	NC_021165.1	Ca_Kabuli_Chr06	37763850	AA	GG	GG	INTERGENIC			
SNP_43453_A_37834682	NC_021165.1	Ca_Kabuli_Chr06	37834682	CC	TT	TT	INTERGENIC			
SNP_43454_A_37835316	NC_021165.1	Ca_Kabuli_Chr06	37835316	TT	CC	CC	INTERGENIC			
SNP_43455_A_37835332	NC_021165.1	Ca_Kabuli_Chr06	37835332	AA	GG	GG	INTERGENIC			
SNP_43456_A_37836482	NC_021165.1	Ca_Kabuli_Chr06	37836482	TT	CC	CC	INTERGENIC			
SNP_43457_A_37836524	NC_021165.1	Ca_Kabuli_Chr06	37836524	AA	TT	TT	INTERGENIC			
SNP_43458_A_37836943	NC_021165.1	Ca_Kabuli_Chr06	37836943	AA	GG	GG	INTERGENIC			
SNP_43460_A_37849802	NC_021165.1	Ca_Kabuli_Chr06	37849802	AA	GG	GG	INTERGENIC			
SNP_43461_A_37850345	NC_021165.1	Ca_Kabuli_Chr06	37850345	GG	AA	AA	INTERGENIC			
SNP_43462_A_37854537	NC_021165.1	Ca_Kabuli_Chr06	37854537	TT	AA	AA	INTERGENIC			
SNP_43464_A_37893614	NC_021165.1	Ca_Kabuli_Chr06	37893614	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43465_A_37893650	NC_021165.1	Ca_Kabuli_Chr06	37893650	AA	CC	CC	INTERGENIC			
SNP_43466_A_37894142	NC_021165.1	Ca_Kabuli_Chr06	37894142	GG	AA	AA	INTERGENIC			
SNP_43467_A_37894148	NC_021165.1	Ca_Kabuli_Chr06	37894148	TT	CC	CC	INTERGENIC			
SNP_43468_A_37901728	NC_021165.1	Ca_Kabuli_Chr06	37901728	GG	AA	AA	INTERGENIC			
SNP_43469_A_37901800	NC_021165.1	Ca_Kabuli_Chr06	37901800	TT	CC	CC	INTERGENIC			
SNP_43470_A_37901801	NC_021165.1	Ca_Kabuli_Chr06	37901801	GG	AA	AA	INTERGENIC			
SNP_43471_A_37901811	NC_021165.1	Ca_Kabuli_Chr06	37901811	GG	TT	TT	INTERGENIC			
SNP_43472_A_37901841	NC_021165.1	Ca_Kabuli_Chr06	37901841	AA	GG	GG	INTERGENIC			
SNP_43474_A_37902283	NC_021165.1	Ca_Kabuli_Chr06	37902283	TT	CC	CC	INTERGENIC			
SNP_43475_A_37902301	NC_021165.1	Ca_Kabuli_Chr06	37902301	GG	AA	AA	INTERGENIC			
SNP_43476_A_37934715	NC_021165.1	Ca_Kabuli_Chr06	37934715	TT	AA	AA	INTERGENIC			
SNP_43477_A_37934779	NC_021165.1	Ca_Kabuli_Chr06	37934779	AA	TT	TT	INTERGENIC			
SNP_43478_A_37934797	NC_021165.1	Ca_Kabuli_Chr06	37934797	TT	GG	GG	INTERGENIC			
SNP_43479_A_37934811	NC_021165.1	Ca_Kabuli_Chr06	37934811	TT	AA	AA	INTERGENIC			
SNP_43480_A_37934824	NC_021165.1	Ca_Kabuli_Chr06	37934824	AA	CC	CC	INTERGENIC			
SNP_43481_A_37935183	NC_021165.1	Ca_Kabuli_Chr06	37935183	CC	AA	AA	INTERGENIC			
SNP_43482_A_37935201	NC_021165.1	Ca_Kabuli_Chr06	37935201	CC	AA	AA	INTERGENIC			
SNP_43483_A_37935235	NC_021165.1	Ca_Kabuli_Chr06	37935235	CC	TT	TT	INTERGENIC			
SNP_43484_A_37935242	NC_021165.1	Ca_Kabuli_Chr06	37935242	GG	AA	AA	INTERGENIC			
SNP_43485_A_37947698	NC_021165.1	Ca_Kabuli_Chr06	37947698	AA	CC	CC	INTERGENIC			
SNP_43486_A_37975721	NC_021165.1	Ca_Kabuli_Chr06	37975721	CC	TT	TT	INTERGENIC			
SNP_43487_A_37975781	NC_021165.1	Ca_Kabuli_Chr06	37975781	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43488_A_37975813	NC_021165.1	Ca_Kabuli_Chr06	37975813	TT	CC	CC	URR	101488217	Unknown function
SNP_43489_A_37975858	NC_021165.1	Ca_Kabuli_Chr06	37975858	TT	AA	AA	URR	101488217	Unknown function
SNP_43490_A_37975966	NC_021165.1	Ca_Kabuli_Chr06	37975966	CC	AA	AA	URR	101488217	Unknown function
SNP_43491_A_37975984	NC_021165.1	Ca_Kabuli_Chr06	37975984	GG	AA	AA	URR	101488217	Unknown function
SNP_43492_A_37975985	NC_021165.1	Ca_Kabuli_Chr06	37975985	CC	TT	TT	URR	101488217	Unknown function
SNP_43493_A_37976046	NC_021165.1	Ca_Kabuli_Chr06	37976046	TT	GG	GG	URR	101488217	Unknown function
SNP_43494_A_37976126	NC_021165.1	Ca_Kabuli_Chr06	37976126	GG	AA	AA	URR	101488217	Unknown function
SNP_43495_A_37976137	NC_021165.1	Ca_Kabuli_Chr06	37976137	TT	AA	AA	URR	101488217	Unknown function
SNP_43496_A_37976160	NC_021165.1	Ca_Kabuli_Chr06	37976160	CC	TT	TT	URR	101488217	Unknown function
SNP_43497_A_37976164	NC_021165.1	Ca_Kabuli_Chr06	37976164	CC	TT	TT	URR	101488217	Unknown function
SNP_43498_A_37976294	NC_021165.1	Ca_Kabuli_Chr06	37976294	AA	TT	TT	URR	101488217	Unknown function
SNP_43499_A_37980750	NC_021165.1	Ca_Kabuli_Chr06	37980750	GG	AA	AA	URR	101492240	uncharacterized LOC101492240
SNP_43500_A_37981131	NC_021165.1	Ca_Kabuli_Chr06	37981131	GG	CC	CC	URR	101492240	uncharacterized LOC101492240
SNP_43501_A_37981144	NC_021165.1	Ca_Kabuli_Chr06	37981144	GG	TT	TT	URR	101492240	uncharacterized LOC101492240
SNP_43502_A_37981252	NC_021165.1	Ca_Kabuli_Chr06	37981252	AA	CC	CC	URR	101492240	uncharacterized LOC101492240
SNP_43503_A_37981480	NC_021165.1	Ca_Kabuli_Chr06	37981480	GG	AA	AA	URR	101492240	uncharacterized LOC101492240
SNP_43504_A_37981519	NC_021165.1	Ca_Kabuli_Chr06	37981519	AA	GG	GG	URR	101492240	uncharacterized LOC101492240
SNP_43505_A_37981593	NC_021165.1	Ca_Kabuli_Chr06	37981593	AA	GG	GG	URR	101492240	uncharacterized LOC101492240
SNP_43506_A_37981676	NC_021165.1	Ca_Kabuli_Chr06	37981676	GG	AA	AA	INTRON	101492577	Unknown function
SNP_43507_A_37981699	NC_021165.1	Ca_Kabuli_Chr06	37981699	TT	CC	CC	INTRON	101492577	Unknown function
SNP_43508_A_37981708	NC_021165.1	Ca_Kabuli_Chr06	37981708	CC	TT	TT	INTRON	101492577	Unknown function
SNP_43509_A_37981786	NC_021165.1	Ca_Kabuli_Chr06	37981786	CC	TT	TT	INTRON	101492577	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43511_A_37981881	NC_021165.1	Ca_Kabuli_Chr06	37981881	GG	AA	AA	INTRON	101492577	Unknown function
SNP_43512_A_37982008	NC_021165.1	Ca_Kabuli_Chr06	37982008	AA	CC	CC	INTRON	101492577	Unknown function
SNP_43513_A_37982062	NC_021165.1	Ca_Kabuli_Chr06	37982062	TT	GG	GG	INTRON	101492577	Unknown function
SNP_43515_A_37982188	NC_021165.1	Ca_Kabuli_Chr06	37982188	CC	AA	AA	INTRON	101492577	Unknown function
SNP_43516_A_37986140	NC_021165.1	Ca_Kabuli_Chr06	37986140	AA	GG	GG	INTERGENIC		
SNP_43517_A_37986141	NC_021165.1	Ca_Kabuli_Chr06	37986141	AA	TT	TT	INTERGENIC		
SNP_43518_A_38054614	NC_021165.1	Ca_Kabuli_Chr06	38054614	AA	GG	GG	INTERGENIC		
SNP_43519_A_38112615	NC_021165.1	Ca_Kabuli_Chr06	38112615	GG	AA	AA	INTERGENIC		
SNP_43520_A_38112838	NC_021165.1	Ca_Kabuli_Chr06	38112838	AA	GG	GG	INTERGENIC		
SNP_43521_A_38112887	NC_021165.1	Ca_Kabuli_Chr06	38112887	AA	CC	CC	INTERGENIC		
SNP_43522_A_38114778	NC_021165.1	Ca_Kabuli_Chr06	38114778	TT	CC	CC	INTERGENIC		
SNP_43523_A_38124341	NC_021165.1	Ca_Kabuli_Chr06	38124341	AA	GG	GG	INTERGENIC		
SNP_43524_A_38124568	NC_021165.1	Ca_Kabuli_Chr06	38124568	TT	CC	CC	INTERGENIC		
SNP_43525_A_38124580	NC_021165.1	Ca_Kabuli_Chr06	38124580	AA	GG	GG	INTERGENIC		
SNP_43526_A_38124602	NC_021165.1	Ca_Kabuli_Chr06	38124602	AA	GG	GG	INTERGENIC		
SNP_43527_A_38124620	NC_021165.1	Ca_Kabuli_Chr06	38124620	AA	GG	GG	INTERGENIC		
SNP_43528_A_38124653	NC_021165.1	Ca_Kabuli_Chr06	38124653	AA	GG	GG	INTERGENIC		
SNP_43529_A_38124660	NC_021165.1	Ca_Kabuli_Chr06	38124660	AA	GG	GG	INTERGENIC		
SNP_43530_A_38135203	NC_021165.1	Ca_Kabuli_Chr06	38135203	AA	GG	GG	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43531_A_38135229	NC_021165.1	Ca_Kabuli_Chr06	38135229	TT	CC	CC	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43532_A_38135341	NC_021165.1	Ca_Kabuli_Chr06	38135341	AA	GG	GG	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43533_A_38135351	NC_021165.1	Ca_Kabuli_Chr06	38135351	TT	CC	CC	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43534_A_38135383	NC_021165.1	Ca_Kabuli_Chr06	38135383	TT	AA	AA	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43535_A_38135404	NC_021165.1	Ca_Kabuli_Chr06	38135404	GG	AA	AA	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43536_A_38135421	NC_021165.1	Ca_Kabuli_Chr06	38135421	CC	AA	AA	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43537_A_38135422	NC_021165.1	Ca_Kabuli_Chr06	38135422	TT	AA	AA	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43538_A_38135425	NC_021165.1	Ca_Kabuli_Chr06	38135425	AA	GG	GG	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43539_A_38135467	NC_021165.1	Ca_Kabuli_Chr06	38135467	TT	CC	CC	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43540_A_38135483	NC_021165.1	Ca_Kabuli_Chr06	38135483	TT	CC	CC	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43541_A_38135490	NC_021165.1	Ca_Kabuli_Chr06	38135490	AA	GG	GG	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43542_A_38135506	NC_021165.1	Ca_Kabuli_Chr06	38135506	AA	GG	GG	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43543_A_38135527	NC_021165.1	Ca_Kabuli_Chr06	38135527	CC	TT	TT	URR	101494827	serine/threonine-protein phosphatase 7 long form homolog
SNP_43544_A_38173334	NC_021165.1	Ca_Kabuli_Chr06	38173334	TT	AA	AA	INTERGENIC		
SNP_43545_A_38182224	NC_021165.1	Ca_Kabuli_Chr06	38182224	AA	CC	CC	INTERGENIC		
SNP_43546_A_38196165	NC_021165.1	Ca_Kabuli_Chr06	38196165	AA	CC	CC	INTERGENIC		
SNP_43547_A_38196208	NC_021165.1	Ca_Kabuli_Chr06	38196208	AA	TT	TT	INTERGENIC		
SNP_43548_A_38196244	NC_021165.1	Ca_Kabuli_Chr06	38196244	CC	TT	TT	INTERGENIC		
SNP_43549_A_38196435	NC_021165.1	Ca_Kabuli_Chr06	38196435	AA	TT	TT	INTERGENIC		
SNP_43550_A_38196474	NC_021165.1	Ca_Kabuli_Chr06	38196474	TT	CC	CC	INTERGENIC		
SNP_43551_A_38196524	NC_021165.1	Ca_Kabuli_Chr06	38196524	AA	CC	CC	INTERGENIC		
SNP_43552_A_38196541	NC_021165.1	Ca_Kabuli_Chr06	38196541	AA	GG	GG	INTERGENIC		
SNP_43553_A_38196556	NC_021165.1	Ca_Kabuli_Chr06	38196556	AA	GG	GG	INTERGENIC		
SNP_43554_A_38197457	NC_021165.1	Ca_Kabuli_Chr06	38197457	TT	AA	AA	INTERGENIC		
SNP_43556_A_38202188	NC_021165.1	Ca_Kabuli_Chr06	38202188	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43557_A_38202245	NC_021165.1	Ca_Kabuli_Chr06	38202245	AA	GG	GG	INTERGENIC		
SNP_43558_A_38232366	NC_021165.1	Ca_Kabuli_Chr06	38232366	GG	TT	TT	INTERGENIC		
SNP_43559_A_38232380	NC_021165.1	Ca_Kabuli_Chr06	38232380	CC	AA	AA	INTERGENIC		
SNP_43560_A_38238007	NC_021165.1	Ca_Kabuli_Chr06	38238007	AA	CC	CC	INTERGENIC		
SNP_43561_A_38253840	NC_021165.1	Ca_Kabuli_Chr06	38253840	GG	AA	AA	INTERGENIC		
SNP_43562_A_38262278	NC_021165.1	Ca_Kabuli_Chr06	38262278	TT	CC	CC	INTERGENIC		
SNP_43564_A_38358810	NC_021165.1	Ca_Kabuli_Chr06	38358810	TT	AA	AA	INTRON	101491274	molybdenum cofactor sulfurase
SNP_43565_A_38365356	NC_021165.1	Ca_Kabuli_Chr06	38365356	GG	AA	AA	INTRON	101491274	molybdenum cofactor sulfurase
SNP_43566_A_38374403	NC_021165.1	Ca_Kabuli_Chr06	38374403	AA	GG	GG	URR	101491274	molybdenum cofactor sulfurase
SNP_43567_A_38382095	NC_021165.1	Ca_Kabuli_Chr06	38382095	AA	GG	GG	INTERGENIC		
SNP_43568_A_38448557	NC_021165.1	Ca_Kabuli_Chr06	38448557	AA	CC	CC	INTERGENIC		
SNP_43569_A_38448572	NC_021165.1	Ca_Kabuli_Chr06	38448572	AA	GG	GG	INTERGENIC		
SNP_43570_A_38473041	NC_021165.1	Ca_Kabuli_Chr06	38473041	CC	TT	TT	INTERGENIC		
SNP_43571_A_38473180	NC_021165.1	Ca_Kabuli_Chr06	38473180	GG	AA	AA	INTERGENIC		
SNP_43572_A_38473191	NC_021165.1	Ca_Kabuli_Chr06	38473191	GG	AA	AA	INTERGENIC		
SNP_43573_A_38473401	NC_021165.1	Ca_Kabuli_Chr06	38473401	TT	CC	CC	INTERGENIC		
SNP_43574_A_38575455	NC_021165.1	Ca_Kabuli_Chr06	38575455	GG	AA	AA	INTERGENIC		
SNP_43575_A_38575646	NC_021165.1	Ca_Kabuli_Chr06	38575646	TT	CC	CC	INTERGENIC		
SNP_43576_A_38575673	NC_021165.1	Ca_Kabuli_Chr06	38575673	GG	AA	AA	INTERGENIC		
SNP_43577_A_38575679	NC_021165.1	Ca_Kabuli_Chr06	38575679	AA	GG	GG	INTERGENIC		
SNP_43578_A_38575745	NC_021165.1	Ca_Kabuli_Chr06	38575745	GG	TT	TT	INTERGENIC		
SNP_43579_A_38575763	NC_021165.1	Ca_Kabuli_Chr06	38575763	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43580_A_38577918	NC_021165.1	Ca_Kabuli_Chr06	38577918	AA	GG	GG	INTERGENIC			
SNP_43581_A_38577930	NC_021165.1	Ca_Kabuli_Chr06	38577930	CC	TT	TT	INTERGENIC			
SNP_43582_A_38613900	NC_021165.1	Ca_Kabuli_Chr06	38613900	GG	AA	AA	INTERGENIC			
SNP_43583_A_38614340	NC_021165.1	Ca_Kabuli_Chr06	38614340	GG	TT	TT	DRR	101509762	Unknown function	
SNP_43585_A_38669325	NC_021165.1	Ca_Kabuli_Chr06	38669325	TT	AA	AA	INTERGENIC			
SNP_43586_A_38669590	NC_021165.1	Ca_Kabuli_Chr06	38669590	TT	AA	AA	INTERGENIC			
SNP_43587_A_38701971	NC_021165.1	Ca_Kabuli_Chr06	38701971	GG	CC	CC	INTERGENIC			
SNP_43588_A_38717685	NC_021165.1	Ca_Kabuli_Chr06	38717685	AA	GG	GG	INTERGENIC			
SNP_43589_A_38717985	NC_021165.1	Ca_Kabuli_Chr06	38717985	GG	TT	TT	INTERGENIC			
SNP_43590_A_38746552	NC_021165.1	Ca_Kabuli_Chr06	38746552	CC	TT	TT	INTERGENIC			
SNP_43591_A_38810458	NC_021165.1	Ca_Kabuli_Chr06	38810458	TT	CC	CC	INTERGENIC			
SNP_43593_A_38829993	NC_021165.1	Ca_Kabuli_Chr06	38829993	TT	AA	AA	INTERGENIC			
SNP_43594_A_38844764	NC_021165.1	Ca_Kabuli_Chr06	38844764	CC	GG	GG	INTERGENIC			
SNP_43595_A_38863472	NC_021165.1	Ca_Kabuli_Chr06	38863472	TT	AA	AA	INTERGENIC			
SNP_43596_A_38863489	NC_021165.1	Ca_Kabuli_Chr06	38863489	AA	GG	GG	INTERGENIC			
SNP_43597_A_38863508	NC_021165.1	Ca_Kabuli_Chr06	38863508	TT	CC	CC	INTERGENIC			
SNP_43598_A_38863512	NC_021165.1	Ca_Kabuli_Chr06	38863512	TT	CC	CC	INTERGENIC			
SNP_43599_A_38863531	NC_021165.1	Ca_Kabuli_Chr06	38863531	CC	TT	TT	INTERGENIC			
SNP_43600_A_38863556	NC_021165.1	Ca_Kabuli_Chr06	38863556	TT	CC	CC	INTERGENIC			
SNP_43602_A_38863869	NC_021165.1	Ca_Kabuli_Chr06	38863869	CC	TT	TT	INTERGENIC			
SNP_43603_A_38863941	NC_021165.1	Ca_Kabuli_Chr06	38863941	CC	TT	TT	INTERGENIC			
SNP_43604_A_38863998	NC_021165.1	Ca_Kabuli_Chr06	38863998	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43605_A_38864023	NC_021165.1	Ca_Kabuli_Chr06	38864023	GG	AA	AA	INTERGENIC		
SNP_43606_A_38864028	NC_021165.1	Ca_Kabuli_Chr06	38864028	TT	AA	AA	INTERGENIC		
SNP_43607_A_38864043	NC_021165.1	Ca_Kabuli_Chr06	38864043	CC	TT	TT	INTERGENIC		
SNP_43608_A_38871608	NC_021165.1	Ca_Kabuli_Chr06	38871608	AA	TT	TT	INTERGENIC		
SNP_43609_A_39031880	NC_021165.1	Ca_Kabuli_Chr06	39031880	TT	AA	AA	INTERGENIC		
SNP_43610_A_39044299	NC_021165.1	Ca_Kabuli_Chr06	39044299	GG	AA	AA	INTERGENIC		
SNP_43611_A_39049308	NC_021165.1	Ca_Kabuli_Chr06	39049308	GG	AA	AA	INTERGENIC		
SNP_43612_A_39049320	NC_021165.1	Ca_Kabuli_Chr06	39049320	CC	TT	TT	INTERGENIC		
SNP_43613_A_39049360	NC_021165.1	Ca_Kabuli_Chr06	39049360	TT	CC	CC	INTERGENIC		
SNP_43614_A_39049391	NC_021165.1	Ca_Kabuli_Chr06	39049391	CC	TT	TT	INTERGENIC		
SNP_43615_A_39049418	NC_021165.1	Ca_Kabuli_Chr06	39049418	AA	GG	GG	INTERGENIC		
SNP_43616_A_39049425	NC_021165.1	Ca_Kabuli_Chr06	39049425	CC	TT	TT	INTERGENIC		
SNP_43617_A_39049702	NC_021165.1	Ca_Kabuli_Chr06	39049702	CC	AA	AA	INTERGENIC		
SNP_43618_A_39049720	NC_021165.1	Ca_Kabuli_Chr06	39049720	GG	AA	AA	INTERGENIC		
SNP_43619_A_39051379	NC_021165.1	Ca_Kabuli_Chr06	39051379	TT	CC	CC	INTRON	101512013	Unknown function
SNP_43620_A_39053213	NC_021165.1	Ca_Kabuli_Chr06	39053213	CC	TT	TT	NON_SYNONYMOUS_CODING	101512013	Unknown function
SNP_43621_A_39053214	NC_021165.1	Ca_Kabuli_Chr06	39053214	GG	AA	AA	SYNONYMOUS_CODING	101512013	Unknown function
SNP_43622_A_39055568	NC_021165.1	Ca_Kabuli_Chr06	39055568	TT	GG	GG	INTRON	101512013	Unknown function
SNP_43623_A_39055974	NC_021165.1	Ca_Kabuli_Chr06	39055974	AA	GG	GG	INTRON	101512013	Unknown function
SNP_43624_A_39055998	NC_021165.1	Ca_Kabuli_Chr06	39055998	TT	CC	CC	INTRON	101512013	Unknown function
SNP_43625_A_39056047	NC_021165.1	Ca_Kabuli_Chr06	39056047	GG	AA	AA	INTRON	101512013	Unknown function
SNP_43626_A_39062178	NC_021165.1	Ca_Kabuli_Chr06	39062178	CC	TT	TT	INTRON	101512013	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43627_A_39078513	NC_021165.1	Ca_Kabuli_Chr06	39078513	AA	CC	CC	INTERGENIC			
SNP_43628_A_39137779	NC_021165.1	Ca_Kabuli_Chr06	39137779	TT	CC	CC	INTERGENIC			
SNP_43629_A_39175913	NC_021165.1	Ca_Kabuli_Chr06	39175913	AA	GG	GG	INTERGENIC			
SNP_43631_A_39249985	NC_021165.1	Ca_Kabuli_Chr06	39249985	AA	GG	GG	INTERGENIC			
SNP_43632_A_39283809	NC_021165.1	Ca_Kabuli_Chr06	39283809	AA	GG	GG	INTERGENIC			
SNP_43633_A_39283936	NC_021165.1	Ca_Kabuli_Chr06	39283936	CC	TT	TT	INTERGENIC			
SNP_43634_A_39284149	NC_021165.1	Ca_Kabuli_Chr06	39284149	AA	GG	GG	INTERGENIC			
SNP_43635_A_39284154	NC_021165.1	Ca_Kabuli_Chr06	39284154	CC	TT	TT	INTERGENIC			
SNP_43636_A_39284246	NC_021165.1	Ca_Kabuli_Chr06	39284246	AA	GG	GG	INTERGENIC			
SNP_43637_A_39316401	NC_021165.1	Ca_Kabuli_Chr06	39316401	AA	TT	TT	INTERGENIC			
SNP_43638_A_39483141	NC_021165.1	Ca_Kabuli_Chr06	39483141	AA	GG	GG	INTERGENIC			
SNP_43639_A_39499994	NC_021165.1	Ca_Kabuli_Chr06	39499994	AA	GG	GG	INTERGENIC			
SNP_43640_A_39500110	NC_021165.1	Ca_Kabuli_Chr06	39500110	TT	AA	AA	INTERGENIC			
SNP_43641_A_39500189	NC_021165.1	Ca_Kabuli_Chr06	39500189	TT	CC	CC	INTERGENIC			
SNP_43642_A_39500343	NC_021165.1	Ca_Kabuli_Chr06	39500343	TT	CC	CC	INTERGENIC			
SNP_43643_A_39527637	NC_021165.1	Ca_Kabuli_Chr06	39527637	TT	CC	CC	INTERGENIC			
SNP_43644_A_39527639	NC_021165.1	Ca_Kabuli_Chr06	39527639	TT	AA	AA	INTERGENIC			
SNP_43645_A_39585086	NC_021165.1	Ca_Kabuli_Chr06	39585086	TT	AA	AA	INTRON	101488665	Unknown function	
SNP_43646_A_39585087	NC_021165.1	Ca_Kabuli_Chr06	39585087	GG	TT	TT	INTRON	101488665	Unknown function	
SNP_43647_A_39620639	NC_021165.1	Ca_Kabuli_Chr06	39620639	CC	AA	AA	INTRON	101488665	Unknown function	
SNP_43648_A_39724016	NC_021165.1	Ca_Kabuli_Chr06	39724016	AA	CC	CC	INTERGENIC			
SNP_43649_A_39724022	NC_021165.1	Ca_Kabuli_Chr06	39724022	AA	GG	GG	INTERGENIC			

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SNP_43650_A_39762017	NC_021165.1	Ca_Kabuli_Chr06	39762017	GG	AA	AA	INTERGENIC		
SNP_43651_A_39765444	NC_021165.1	Ca_Kabuli_Chr06	39765444	TT	CC	CC	INTERGENIC		
SNP_43654_A_39834602	NC_021165.1	Ca_Kabuli_Chr06	39834602	AA	GG	GG	INTRON	101490963	uncharacterized LOC101490963
SNP_43655_A_39862964	NC_021165.1	Ca_Kabuli_Chr06	39862964	TT	CC	CC	INTERGENIC		
SNP_43656_A_39862965	NC_021165.1	Ca_Kabuli_Chr06	39862965	GG	AA	AA	INTERGENIC		
SNP_43657_A_39863002	NC_021165.1	Ca_Kabuli_Chr06	39863002	AA	CC	CC	INTERGENIC		
SNP_43659_A_39879852	NC_021165.1	Ca_Kabuli_Chr06	39879852	AA	TT	TT	NON_SYNONYMOUS_CODING	101491276	Unknown function
SNP_43660_A_39880218	NC_021165.1	Ca_Kabuli_Chr06	39880218	AA	GG	GG	SYNONYMOUS_CODING	101491276	Unknown function
SNP_43661_A_39917422	NC_021165.1	Ca_Kabuli_Chr06	39917422	GG	AA	AA	URR	101491598	uncharacterized LOC101491598
SNP_43662_A_40036466	NC_021165.1	Ca_Kabuli_Chr06	40036466	TT	GG	GG	INTERGENIC		
SNP_43663_A_40036483	NC_021165.1	Ca_Kabuli_Chr06	40036483	TT	AA	AA	INTERGENIC		
SNP_43664_A_40036546	NC_021165.1	Ca_Kabuli_Chr06	40036546	GG	TT	TT	INTERGENIC		
SNP_43665_A_40036554	NC_021165.1	Ca_Kabuli_Chr06	40036554	TT	AA	AA	INTERGENIC		
SNP_43666_A_40037039	NC_021165.1	Ca_Kabuli_Chr06	40037039	AA	CC	CC	INTERGENIC		
SNP_43667_A_40060139	NC_021165.1	Ca_Kabuli_Chr06	40060139	CC	TT	TT	INTRON	101504293	chaperone protein dnaJ 1, mitochondrial-like
SNP_43669_A_40119395	NC_021165.1	Ca_Kabuli_Chr06	40119395	CC	TT	TT	INTERGENIC		
SNP_43670_A_40119656	NC_021165.1	Ca_Kabuli_Chr06	40119656	TT	CC	CC	INTERGENIC		
SNP_43671_A_40119712	NC_021165.1	Ca_Kabuli_Chr06	40119712	TT	GG	GG	INTERGENIC		
SNP_43672_A_40119715	NC_021165.1	Ca_Kabuli_Chr06	40119715	AA	GG	GG	INTERGENIC		
SNP_43673_A_40131929	NC_021165.1	Ca_Kabuli_Chr06	40131929	GG	AA	AA	INTRON	101505156	tRNA 2'-phosphotransferase 1-like
SNP_43674_A_40132179	NC_021165.1	Ca_Kabuli_Chr06	40132179	TT	CC	CC	INTRON	101505156	tRNA 2'-phosphotransferase 1-like
SNP_43675_A_40162771	NC_021165.1	Ca_Kabuli_Chr06	40162771	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43676_A_40164454	NC_021165.1	Ca_Kabuli_Chr06	40164454	AA	CC	CC	INTERGENIC		
SNP_43677_A_40181249	NC_021165.1	Ca_Kabuli_Chr06	40181249	TT	CC	CC	INTERGENIC		
SNP_43678_A_40188290	NC_021165.1	Ca_Kabuli_Chr06	40188290	TT	CC	CC	INTERGENIC		
SNP_43679_A_40188342	NC_021165.1	Ca_Kabuli_Chr06	40188342	CC	TT	TT	INTERGENIC		
SNP_43680_A_40188542	NC_021165.1	Ca_Kabuli_Chr06	40188542	TT	AA	AA	INTERGENIC		
SNP_43681_A_40221027	NC_021165.1	Ca_Kabuli_Chr06	40221027	AA	GG	GG	INTRON	101507320	protein transport Sec1a-like
SNP_43682_A_40249035	NC_021165.1	Ca_Kabuli_Chr06	40249035	GG	AA	AA	INTRON	101495156	Unknown function
SNP_43683_A_40361082	NC_021165.1	Ca_Kabuli_Chr06	40361082	TT	CC	CC	URR	101508791	uncharacterized protein At1g04910-like
SNP_43684_A_40361196	NC_021165.1	Ca_Kabuli_Chr06	40361196	GG	AA	AA	URR	101508791	uncharacterized protein At1g04910-like
SNP_43685_A_40427971	NC_021165.1	Ca_Kabuli_Chr06	40427971	GG	AA	AA	DRR	101496131	sugar transport protein 11-like
SNP_43686_A_40429248	NC_021165.1	Ca_Kabuli_Chr06	40429248	AA	TT	TT	INTRON	101496131	sugar transport protein 11-like
SNP_43687_A_40429551	NC_021165.1	Ca_Kabuli_Chr06	40429551	CC	TT	TT	SYNONYMOUS_CODING	101496131	sugar transport protein 11-like
SNP_43688_A_40445464	NC_021165.1	Ca_Kabuli_Chr06	40445464	GG	AA	AA	INTERGENIC		
SNP_43690_A_40522759	NC_021165.1	Ca_Kabuli_Chr06	40522759	GG	AA	AA	INTERGENIC		
SNP_43691_A_40523106	NC_021165.1	Ca_Kabuli_Chr06	40523106	GG	AA	AA	INTERGENIC		
SNP_43692_A_40536271	NC_021165.1	Ca_Kabuli_Chr06	40536271	GG	TT	TT	INTERGENIC		
SNP_43693_A_40536554	NC_021165.1	Ca_Kabuli_Chr06	40536554	AA	GG	GG	INTERGENIC		
SNP_43694_A_40536577	NC_021165.1	Ca_Kabuli_Chr06	40536577	CC	TT	TT	INTERGENIC		
SNP_43695_A_40536640	NC_021165.1	Ca_Kabuli_Chr06	40536640	CC	TT	TT	INTERGENIC		
SNP_43696_A_40536800	NC_021165.1	Ca_Kabuli_Chr06	40536800	GG	AA	AA	INTERGENIC		
SNP_43697_A_40536843	NC_021165.1	Ca_Kabuli_Chr06	40536843	GG	TT	TT	INTERGENIC		
SNP_43698_A_40536893	NC_021165.1	Ca_Kabuli_Chr06	40536893	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43699_A_40536903	NC_021165.1	Ca_Kabuli_Chr06	40536903	TT	AA	AA	INTERGENIC		
SNP_43700_A_40542334	NC_021165.1	Ca_Kabuli_Chr06	40542334	TT	GG	GG	INTERGENIC		
SNP_43701_A_40820848	NC_021165.1	Ca_Kabuli_Chr06	40820848	GG	AA	AA	INTRON	101500139	transketolase, chloroplastic
SNP_43702_A_40845396	NC_021165.1	Ca_Kabuli_Chr06	40845396	TT	CC	CC	INTRON	101500464	3-phosphoshikimate 1-carboxyvinyltransferase 2
SNP_43703_A_40854819	NC_021165.1	Ca_Kabuli_Chr06	40854819	AA	GG	GG	INTERGENIC		
SNP_43704_A_40860051	NC_021165.1	Ca_Kabuli_Chr06	40860051	AA	GG	GG	INTERGENIC		
SNP_43705_A_40860319	NC_021165.1	Ca_Kabuli_Chr06	40860319	CC	TT	TT	INTERGENIC		
SNP_43706_A_40860320	NC_021165.1	Ca_Kabuli_Chr06	40860320	TT	CC	CC	INTERGENIC		
SNP_43707_A_40860341	NC_021165.1	Ca_Kabuli_Chr06	40860341	TT	CC	CC	INTERGENIC		
SNP_43708_A_40860466	NC_021165.1	Ca_Kabuli_Chr06	40860466	CC	TT	TT	INTERGENIC		
SNP_43709_A_40860539	NC_021165.1	Ca_Kabuli_Chr06	40860539	GG	AA	AA	INTERGENIC		
SNP_43710_A_40907622	NC_021165.1	Ca_Kabuli_Chr06	40907622	AA	CC	CC	INTERGENIC		
SNP_43711_A_40907633	NC_021165.1	Ca_Kabuli_Chr06	40907633	CC	TT	TT	INTERGENIC		
SNP_43712_A_40908318	NC_021165.1	Ca_Kabuli_Chr06	40908318	CC	TT	TT	INTERGENIC		
SNP_43713_A_40955355	NC_021165.1	Ca_Kabuli_Chr06	40955355	CC	TT	TT	INTERGENIC		
SNP_43714_A_40955711	NC_021165.1	Ca_Kabuli_Chr06	40955711	AA	TT	TT	INTERGENIC		
SNP_43715_A_40956838	NC_021165.1	Ca_Kabuli_Chr06	40956838	CC	TT	TT	INTERGENIC		
SNP_43716_A_41001193	NC_021165.1	Ca_Kabuli_Chr06	41001193	GG	AA	AA	INTERGENIC		
SNP_43717_A_41001279	NC_021165.1	Ca_Kabuli_Chr06	41001279	CC	TT	TT	INTERGENIC		
SNP_43718_A_41001832	NC_021165.1	Ca_Kabuli_Chr06	41001832	TT	CC	CC	INTERGENIC		
SNP_43719_A_41001882	NC_021165.1	Ca_Kabuli_Chr06	41001882	AA	CC	CC	INTERGENIC		
SNP_43720_A_41001883	NC_021165.1	Ca_Kabuli_Chr06	41001883	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43721_A_41001885	NC_021165.1	Ca_Kabuli_Chr06	41001885	CC	TT	TT	INTERGENIC		
SNP_43722_A_41059959	NC_021165.1	Ca_Kabuli_Chr06	41059959	TT	CC	CC	INTERGENIC		
SNP_43723_A_41075650	NC_021165.1	Ca_Kabuli_Chr06	41075650	TT	CC	CC	INTERGENIC		
SNP_43724_A_41118032	NC_021165.1	Ca_Kabuli_Chr06	41118032	CC	AA	AA	INTERGENIC		
SNP_43725_A_41118330	NC_021165.1	Ca_Kabuli_Chr06	41118330	AA	GG	GG	INTERGENIC		
SNP_43726_A_41118618	NC_021165.1	Ca_Kabuli_Chr06	41118618	AA	TT	TT	INTERGENIC		
SNP_43727_A_41118624	NC_021165.1	Ca_Kabuli_Chr06	41118624	AA	TT	TT	INTERGENIC		
SNP_43728_A_41119058	NC_021165.1	Ca_Kabuli_Chr06	41119058	TT	CC	CC	INTERGENIC		
SNP_43729_A_41128534	NC_021165.1	Ca_Kabuli_Chr06	41128534	AA	GG	GG	DRR	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43730_A_41128688	NC_021165.1	Ca_Kabuli_Chr06	41128688	CC	TT	TT	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43731_A_41128693	NC_021165.1	Ca_Kabuli_Chr06	41128693	AA	GG	GG	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43732_A_41128699	NC_021165.1	Ca_Kabuli_Chr06	41128699	CC	TT	TT	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43733_A_41128701	NC_021165.1	Ca_Kabuli_Chr06	41128701	GG	AA	AA	SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43734_A_41128726	NC_021165.1	Ca_Kabuli_Chr06	41128726	TT	CC	CC	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43735_A_41128736	NC_021165.1	Ca_Kabuli_Chr06	41128736	CC	TT	TT	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43736_A_41128786	NC_021165.1	Ca_Kabuli_Chr06	41128786	GG	TT	TT	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43737_A_41128847	NC_021165.1	Ca_Kabuli_Chr06	41128847	CC	TT	TT	NON_SYNONYMOUS_CODING	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43738_A_41129358	NC_021165.1	Ca_Kabuli_Chr06	41129358	CC	TT	TT	URR	101509975	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_43739_A_41131983	NC_021165.1	Ca_Kabuli_Chr06	41131983	CC	TT	TT	INTERGENIC		
SNP_43740_A_41132467	NC_021165.1	Ca_Kabuli_Chr06	41132467	AA	TT	TT	INTERGENIC		
SNP_43741_A_41132488	NC_021165.1	Ca_Kabuli_Chr06	41132488	AA	GG	GG	INTERGENIC		
SNP_43742_A_41135198	NC_021165.1	Ca_Kabuli_Chr06	41135198	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43744_A_41179833	NC_021165.1	Ca_Kabuli_Chr06	41179833	GG	AA	AA	URR	101510292	Unknown function
SNP_43745_A_41179906	NC_021165.1	Ca_Kabuli_Chr06	41179906	CC	AA	AA	URR	101510292	Unknown function
SNP_43746_A_41180127	NC_021165.1	Ca_Kabuli_Chr06	41180127	AA	TT	TT	URR	101510292	Unknown function
SNP_43747_A_41180141	NC_021165.1	Ca_Kabuli_Chr06	41180141	AA	TT	TT	URR	101510292	Unknown function
SNP_43748_A_41180142	NC_021165.1	Ca_Kabuli_Chr06	41180142	GG	TT	TT	URR	101510292	Unknown function
SNP_43749_A_41180155	NC_021165.1	Ca_Kabuli_Chr06	41180155	AA	TT	TT	URR	101510292	Unknown function
SNP_43750_A_41180172	NC_021165.1	Ca_Kabuli_Chr06	41180172	TT	AA	AA	URR	101510292	Unknown function
SNP_43751_A_41180207	NC_021165.1	Ca_Kabuli_Chr06	41180207	AA	TT	TT	URR	101510292	Unknown function
SNP_43752_A_41230156	NC_021165.1	Ca_Kabuli_Chr06	41230156	CC	TT	TT	INTERGENIC		
SNP_43753_A_41230463	NC_021165.1	Ca_Kabuli_Chr06	41230463	AA	GG	GG	INTERGENIC		
SNP_43754_A_41230486	NC_021165.1	Ca_Kabuli_Chr06	41230486	GG	TT	TT	INTERGENIC		
SNP_43755_A_41230489	NC_021165.1	Ca_Kabuli_Chr06	41230489	GG	AA	AA	INTERGENIC		
SNP_43756_A_41286099	NC_021165.1	Ca_Kabuli_Chr06	41286099	TT	CC	CC	INTERGENIC		
SNP_43757_A_41315378	NC_021165.1	Ca_Kabuli_Chr06	41315378	GG	AA	AA	INTERGENIC		
SNP_43758_A_41315382	NC_021165.1	Ca_Kabuli_Chr06	41315382	TT	AA	AA	INTERGENIC		
SNP_43759_A_41315386	NC_021165.1	Ca_Kabuli_Chr06	41315386	CC	AA	AA	INTERGENIC		
SNP_43760_A_41322373	NC_021165.1	Ca_Kabuli_Chr06	41322373	CC	TT	TT	INTERGENIC		
SNP_43761_A_41322820	NC_021165.1	Ca_Kabuli_Chr06	41322820	TT	AA	AA	INTERGENIC		
SNP_43762_A_41322822	NC_021165.1	Ca_Kabuli_Chr06	41322822	CC	GG	GG	INTERGENIC		
SNP_43763_A_41360694	NC_021165.1	Ca_Kabuli_Chr06	41360694	CC	TT	TT	URR	101511578	Unknown function
SNP_43765_A_41437714	NC_021165.1	Ca_Kabuli_Chr06	41437714	CC	TT	TT	INTERGENIC		
SNP_43766_A_41464139	NC_021165.1	Ca_Kabuli_Chr06	41464139	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43767_A_41464177	NC_021165.1	Ca_Kabuli_Chr06	41464177	AA	GG	GG	INTERGENIC		
SNP_43768_A_41464256	NC_021165.1	Ca_Kabuli_Chr06	41464256	AA	GG	GG	INTERGENIC		
SNP_43769_A_41464303	NC_021165.1	Ca_Kabuli_Chr06	41464303	TT	CC	CC	INTERGENIC		
SNP_43770_A_41464335	NC_021165.1	Ca_Kabuli_Chr06	41464335	CC	TT	TT	INTERGENIC		
SNP_43771_A_41464338	NC_021165.1	Ca_Kabuli_Chr06	41464338	GG	TT	TT	INTERGENIC		
SNP_43772_A_41464372	NC_021165.1	Ca_Kabuli_Chr06	41464372	TT	CC	CC	INTERGENIC		
SNP_43773_A_41464374	NC_021165.1	Ca_Kabuli_Chr06	41464374	AA	GG	GG	INTERGENIC		
SNP_43774_A_41465919	NC_021165.1	Ca_Kabuli_Chr06	41465919	CC	AA	AA	INTERGENIC		
SNP_43776_A_41508436	NC_021165.1	Ca_Kabuli_Chr06	41508436	GG	AA	AA	INTERGENIC		
SNP_43778_A_41573792	NC_021165.1	Ca_Kabuli_Chr06	41573792	GG	AA	AA	INTRON	101509648	uncharacterized LOC101509648
SNP_43779_A_41573798	NC_021165.1	Ca_Kabuli_Chr06	41573798	AA	GG	GG	INTRON	101509648	uncharacterized LOC101509648
SNP_43780_A_41573808	NC_021165.1	Ca_Kabuli_Chr06	41573808	AA	TT	TT	INTRON	101509648	uncharacterized LOC101509648
SNP_43781_A_41574185	NC_021165.1	Ca_Kabuli_Chr06	41574185	TT	AA	AA	INTRON	101509648	uncharacterized LOC101509648
SNP_43784_A_41574457	NC_021165.1	Ca_Kabuli_Chr06	41574457	TT	CC	CC	INTRON	101509648	uncharacterized LOC101509648
SNP_43785_A_41574589	NC_021165.1	Ca_Kabuli_Chr06	41574589	AA	TT	TT	INTRON	101509648	uncharacterized LOC101509648
SNP_43786_A_41589713	NC_021165.1	Ca_Kabuli_Chr06	41589713	TT	AA	AA	INTERGENIC		
SNP_43787_A_41603679	NC_021165.1	Ca_Kabuli_Chr06	41603679	AA	GG	GG	INTERGENIC		
SNP_43788_A_41603680	NC_021165.1	Ca_Kabuli_Chr06	41603680	AA	GG	GG	INTERGENIC		
SNP_43789_A_41654050	NC_021165.1	Ca_Kabuli_Chr06	41654050	CC	TT	TT	INTERGENIC		
SNP_43790_A_41654361	NC_021165.1	Ca_Kabuli_Chr06	41654361	AA	GG	GG	INTERGENIC		
SNP_43792_A_41654678	NC_021165.1	Ca_Kabuli_Chr06	41654678	TT	AA	AA	INTERGENIC		
SNP_43793_A_41654699	NC_021165.1	Ca_Kabuli_Chr06	41654699	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43794_A_41654781	NC_021165.1	Ca_Kabuli_Chr06	41654781	AA	GG	GG	INTERGENIC		
SNP_43795_A_41655587	NC_021165.1	Ca_Kabuli_Chr06	41655587	TT	AA	AA	INTERGENIC		
SNP_43796_A_41656240	NC_021165.1	Ca_Kabuli_Chr06	41656240	CC	TT	TT	INTERGENIC		
SNP_43797_A_41656963	NC_021165.1	Ca_Kabuli_Chr06	41656963	TT	GG	GG	INTERGENIC		
SNP_43798_A_41658087	NC_021165.1	Ca_Kabuli_Chr06	41658087	AA	GG	GG	INTERGENIC		
SNP_43799_A_41658962	NC_021165.1	Ca_Kabuli_Chr06	41658962	AA	CC	CC	INTERGENIC		
SNP_43800_A_41659251	NC_021165.1	Ca_Kabuli_Chr06	41659251	GG	AA	AA	INTERGENIC		
SNP_43801_A_41659380	NC_021165.1	Ca_Kabuli_Chr06	41659380	TT	CC	CC	INTERGENIC		
SNP_43803_A_41659773	NC_021165.1	Ca_Kabuli_Chr06	41659773	AA	GG	GG	INTERGENIC		
SNP_43804_A_41660675	NC_021165.1	Ca_Kabuli_Chr06	41660675	GG	AA	AA	INTERGENIC		
SNP_43805_A_41660679	NC_021165.1	Ca_Kabuli_Chr06	41660679	AA	TT	TT	INTERGENIC		
SNP_43806_A_41660936	NC_021165.1	Ca_Kabuli_Chr06	41660936	CC	TT	TT	INTERGENIC		
SNP_43807_A_41661628	NC_021165.1	Ca_Kabuli_Chr06	41661628	GG	TT	TT	INTERGENIC		
SNP_43808_A_41661653	NC_021165.1	Ca_Kabuli_Chr06	41661653	CC	TT	TT	INTERGENIC		
SNP_43810_A_41674184	NC_021165.1	Ca_Kabuli_Chr06	41674184	AA	GG	GG	INTERGENIC		
SNP_43811_A_41674185	NC_021165.1	Ca_Kabuli_Chr06	41674185	TT	AA	AA	INTERGENIC		
SNP_43812_A_41681360	NC_021165.1	Ca_Kabuli_Chr06	41681360	TT	CC	CC	INTERGENIC		
SNP_43813_A_41693501	NC_021165.1	Ca_Kabuli_Chr06	41693501	AA	GG	GG	INTRON	101491599	ribonuclease II, chloroplastic/mitochondrial
SNP_43814_A_41693514	NC_021165.1	Ca_Kabuli_Chr06	41693514	CC	GG	GG	INTRON	101491599	ribonuclease II, chloroplastic/mitochondrial
SNP_43815_A_41694033	NC_021165.1	Ca_Kabuli_Chr06	41694033	TT	CC	CC	INTRON	101491599	ribonuclease II, chloroplastic/mitochondrial
SNP_43816_A_41706510	NC_021165.1	Ca_Kabuli_Chr06	41706510	GG	AA	AA	DRR	101513520	uncharacterized LOC101513520
SNP_43817_A_41706640	NC_021165.1	Ca_Kabuli_Chr06	41706640	TT	AA	AA	DRR	101513520	uncharacterized LOC101513520

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43818_A_41726147	NC_021165.1	Ca_Kabuli_Chr06	41726147	AA	GG	GG	INTERGENIC			
SNP_43819_A_41726431	NC_021165.1	Ca_Kabuli_Chr06	41726431	TT	GG	GG	INTERGENIC			
SNP_43820_A_41743388	NC_021165.1	Ca_Kabuli_Chr06	41743388	AA	GG	GG	INTERGENIC			
SNP_43821_A_41743574	NC_021165.1	Ca_Kabuli_Chr06	41743574	TT	CC	CC	INTERGENIC			
SNP_43822_A_41743678	NC_021165.1	Ca_Kabuli_Chr06	41743678	AA	CC	CC	INTERGENIC			
SNP_43823_A_41743714	NC_021165.1	Ca_Kabuli_Chr06	41743714	CC	TT	TT	INTERGENIC			
SNP_43824_A_41743723	NC_021165.1	Ca_Kabuli_Chr06	41743723	AA	GG	GG	INTERGENIC			
SNP_43825_A_41743744	NC_021165.1	Ca_Kabuli_Chr06	41743744	TT	CC	CC	INTERGENIC			
SNP_43826_A_41743815	NC_021165.1	Ca_Kabuli_Chr06	41743815	GG	AA	AA	INTERGENIC			
SNP_43827_A_41743817	NC_021165.1	Ca_Kabuli_Chr06	41743817	TT	AA	AA	INTERGENIC			
SNP_43828_A_41787539	NC_021165.1	Ca_Kabuli_Chr06	41787539	CC	TT	TT	INTERGENIC			
SNP_43829_A_41836402	NC_021165.1	Ca_Kabuli_Chr06	41836402	TT	AA	AA	INTERGENIC			
SNP_43830_A_41856348	NC_021165.1	Ca_Kabuli_Chr06	41856348	CC	TT	TT	INTERGENIC			
SNP_43831_A_41856350	NC_021165.1	Ca_Kabuli_Chr06	41856350	AA	TT	TT	INTERGENIC			
SNP_43832_A_41856360	NC_021165.1	Ca_Kabuli_Chr06	41856360	AA	TT	TT	INTERGENIC			
SNP_43833_A_41856366	NC_021165.1	Ca_Kabuli_Chr06	41856366	TT	AA	AA	INTERGENIC			
SNP_43834_A_41856421	NC_021165.1	Ca_Kabuli_Chr06	41856421	CC	TT	TT	INTERGENIC			
SNP_43835_A_41856465	NC_021165.1	Ca_Kabuli_Chr06	41856465	AA	GG	GG	INTERGENIC			
SNP_43837_A_41856698	NC_021165.1	Ca_Kabuli_Chr06	41856698	TT	CC	CC	INTERGENIC			
SNP_43838_A_41856911	NC_021165.1	Ca_Kabuli_Chr06	41856911	GG	AA	AA	INTERGENIC			
SNP_43839_A_41860519	NC_021165.1	Ca_Kabuli_Chr06	41860519	TT	CC	CC	INTERGENIC			
SNP_43840_A_41864726	NC_021165.1	Ca_Kabuli_Chr06	41864726	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43841_A_41871770	NC_021165.1	Ca_Kabuli_Chr06	41871770	TT	CC	CC	INTRON	101492241	Unknown function
SNP_43842_A_41873990	NC_021165.1	Ca_Kabuli_Chr06	41873990	TT	AA	AA	INTRON	101492241	Unknown function
SNP_43843_A_41874497	NC_021165.1	Ca_Kabuli_Chr06	41874497	AA	GG	GG	INTRON	101492241	Unknown function
SNP_43845_A_41919572	NC_021165.1	Ca_Kabuli_Chr06	41919572	TT	CC	CC	INTERGENIC		
SNP_43846_A_41921057	NC_021165.1	Ca_Kabuli_Chr06	41921057	GG	AA	AA	INTERGENIC		
SNP_43848_A_42016665	NC_021165.1	Ca_Kabuli_Chr06	42016665	TT	CC	CC	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43849_A_42016667	NC_021165.1	Ca_Kabuli_Chr06	42016667	AA	CC	CC	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43850_A_42016669	NC_021165.1	Ca_Kabuli_Chr06	42016669	CC	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43851_A_42017447	NC_021165.1	Ca_Kabuli_Chr06	42017447	CC	TT	TT	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43852_A_42020022	NC_021165.1	Ca_Kabuli_Chr06	42020022	TT	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43853_A_42020083	NC_021165.1	Ca_Kabuli_Chr06	42020083	CC	TT	TT	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43854_A_42020091	NC_021165.1	Ca_Kabuli_Chr06	42020091	AA	GG	GG	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43855_A_42020463	NC_021165.1	Ca_Kabuli_Chr06	42020463	AA	GG	GG	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43856_A_42020494	NC_021165.1	Ca_Kabuli_Chr06	42020494	CC	GG	GG	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43857_A_42020503	NC_021165.1	Ca_Kabuli_Chr06	42020503	TT	GG	GG	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43858_A_42032525	NC_021165.1	Ca_Kabuli_Chr06	42032525	GG	CC	CC	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43859_A_42032535	NC_021165.1	Ca_Kabuli_Chr06	42032535	GG	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43860_A_42086763	NC_021165.1	Ca_Kabuli_Chr06	42086763	CC	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43861_A_42109014	NC_021165.1	Ca_Kabuli_Chr06	42109014	TT	CC	CC	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43862_A_42109015	NC_021165.1	Ca_Kabuli_Chr06	42109015	GG	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43863_A_42109027	NC_021165.1	Ca_Kabuli_Chr06	42109027	CC	AA	AA	INTRON	101489330	serine carboxypeptidase-like 11
SNP_43864_A_42146136	NC_021165.1	Ca_Kabuli_Chr06	42146136	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43865_A_42172933	NC_021165.1	Ca_Kabuli_Chr06	42172933	AA	GG	GG	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43866_A_42208659	NC_021165.1	Ca_Kabuli_Chr06	42208659	AA	GG	GG	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43867_A_42208667	NC_021165.1	Ca_Kabuli_Chr06	42208667	CC	TT	TT	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43868_A_42208684	NC_021165.1	Ca_Kabuli_Chr06	42208684	GG	AA	AA	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43869_A_42208688	NC_021165.1	Ca_Kabuli_Chr06	42208688	GG	AA	AA	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43870_A_42208691	NC_021165.1	Ca_Kabuli_Chr06	42208691	TT	CC	CC	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43871_A_42208694	NC_021165.1	Ca_Kabuli_Chr06	42208694	AA	CC	CC	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43872_A_42208712	NC_021165.1	Ca_Kabuli_Chr06	42208712	GG	AA	AA	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43873_A_42208739	NC_021165.1	Ca_Kabuli_Chr06	42208739	AA	GG	GG	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43874_A_42208775	NC_021165.1	Ca_Kabuli_Chr06	42208775	CC	TT	TT	INTRON	101489005	serine carboxypeptidase-like 11
SNP_43876_A_42342719	NC_021165.1	Ca_Kabuli_Chr06	42342719	GG	TT	TT	INTERGENIC		
SNP_43877_A_42355522	NC_021165.1	Ca_Kabuli_Chr06	42355522	AA	GG	GG	INTERGENIC		
SNP_43879_A_42365667	NC_021165.1	Ca_Kabuli_Chr06	42365667	AA	GG	GG	INTERGENIC		
SNP_43880_A_42392289	NC_021165.1	Ca_Kabuli_Chr06	42392289	TT	AA	AA	INTERGENIC		
SNP_43881_A_42396672	NC_021165.1	Ca_Kabuli_Chr06	42396672	GG	AA	AA	URR	101489983	non-specific lipid-transfer protein A-like
SNP_43882_A_42396734	NC_021165.1	Ca_Kabuli_Chr06	42396734	TT	GG	GG	INTERGENIC		
SNP_43883_A_42396782	NC_021165.1	Ca_Kabuli_Chr06	42396782	TT	AA	AA	INTERGENIC		
SNP_43884_A_42397053	NC_021165.1	Ca_Kabuli_Chr06	42397053	TT	AA	AA	INTERGENIC		
SNP_43885_A_42397080	NC_021165.1	Ca_Kabuli_Chr06	42397080	TT	AA	AA	INTERGENIC		
SNP_43886_A_42397157	NC_021165.1	Ca_Kabuli_Chr06	42397157	CC	AA	AA	INTERGENIC		
SNP_43887_A_42397299	NC_021165.1	Ca_Kabuli_Chr06	42397299	TT	CC	CC	INTERGENIC		
SNP_43888_A_42398670	NC_021165.1	Ca_Kabuli_Chr06	42398670	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43890_A_42398689	NC_021165.1	Ca_Kabuli_Chr06	42398689	CC	TT	TT	INTERGENIC		
SNP_43891_A_42398690	NC_021165.1	Ca_Kabuli_Chr06	42398690	AA	GG	GG	INTERGENIC		
SNP_43892_A_42402390	NC_021165.1	Ca_Kabuli_Chr06	42402390	AA	CC	CC	INTERGENIC		
SNP_43893_A_42405600	NC_021165.1	Ca_Kabuli_Chr06	42405600	CC	AA	AA	INTERGENIC		
SNP_43894_A_42461278	NC_021165.1	Ca_Kabuli_Chr06	42461278	AA	GG	GG	INTERGENIC		
SNP_43895_A_42464604	NC_021165.1	Ca_Kabuli_Chr06	42464604	CC	TT	TT	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43896_A_42464623	NC_021165.1	Ca_Kabuli_Chr06	42464623	AA	TT	TT	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43897_A_42464626	NC_021165.1	Ca_Kabuli_Chr06	42464626	CC	TT	TT	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43898_A_42464634	NC_021165.1	Ca_Kabuli_Chr06	42464634	CC	GG	GG	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43899_A_42464643	NC_021165.1	Ca_Kabuli_Chr06	42464643	AA	GG	GG	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43900_A_42464702	NC_021165.1	Ca_Kabuli_Chr06	42464702	AA	GG	GG	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43901_A_42464710	NC_021165.1	Ca_Kabuli_Chr06	42464710	GG	AA	AA	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43902_A_42464717	NC_021165.1	Ca_Kabuli_Chr06	42464717	GG	AA	AA	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43903_A_42464888	NC_021165.1	Ca_Kabuli_Chr06	42464888	GG	AA	AA	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43904_A_42464911	NC_021165.1	Ca_Kabuli_Chr06	42464911	TT	AA	AA	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43905_A_42464941	NC_021165.1	Ca_Kabuli_Chr06	42464941	AA	CC	CC	DRR	101490637	non-specific lipid-transfer protein A-like
SNP_43906_A_42470626	NC_021165.1	Ca_Kabuli_Chr06	42470626	AA	CC	CC	INTERGENIC		
SNP_43907_A_42473217	NC_021165.1	Ca_Kabuli_Chr06	42473217	AA	CC	CC	INTERGENIC		
SNP_43908_A_42473226	NC_021165.1	Ca_Kabuli_Chr06	42473226	CC	TT	TT	INTERGENIC		
SNP_43909_A_42473763	NC_021165.1	Ca_Kabuli_Chr06	42473763	AA	TT	TT	INTERGENIC		
SNP_43910_A_42473804	NC_021165.1	Ca_Kabuli_Chr06	42473804	GG	AA	AA	INTERGENIC		
SNP_43911_A_42473817	NC_021165.1	Ca_Kabuli_Chr06	42473817	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_43912_A_42473978	NC_021165.1	Ca_Kabuli_Chr06	42473978	GG	TT	TT	INTERGENIC			
SNP_43913_A_42474148	NC_021165.1	Ca_Kabuli_Chr06	42474148	AA	GG	GG	INTERGENIC			
SNP_43914_A_42474207	NC_021165.1	Ca_Kabuli_Chr06	42474207	CC	AA	AA	INTERGENIC			
SNP_43915_A_42476347	NC_021165.1	Ca_Kabuli_Chr06	42476347	AA	GG	GG	URR		101490965	non-specific lipid-transfer protein A-like
SNP_43916_A_42481206	NC_021165.1	Ca_Kabuli_Chr06	42481206	TT	CC	CC	URR		101491277	non-specific lipid-transfer protein AP10-like
SNP_43917_A_42535300	NC_021165.1	Ca_Kabuli_Chr06	42535300	AA	TT	TT	INTERGENIC			
SNP_43918_A_42601551	NC_021165.1	Ca_Kabuli_Chr06	42601551	TT	CC	CC	INTERGENIC			
SNP_43919_A_42602042	NC_021165.1	Ca_Kabuli_Chr06	42602042	GG	TT	TT	INTERGENIC			
SNP_43920_A_42618900	NC_021165.1	Ca_Kabuli_Chr06	42618900	AA	GG	GG	INTERGENIC			
SNP_43921_A_42619166	NC_021165.1	Ca_Kabuli_Chr06	42619166	GG	AA	AA	INTERGENIC			
SNP_43922_A_42619172	NC_021165.1	Ca_Kabuli_Chr06	42619172	GG	AA	AA	INTERGENIC			
SNP_43923_A_42619212	NC_021165.1	Ca_Kabuli_Chr06	42619212	TT	CC	CC	INTERGENIC			
SNP_43924_A_42625250	NC_021165.1	Ca_Kabuli_Chr06	42625250	CC	TT	TT	INTERGENIC			
SNP_43925_A_42625323	NC_021165.1	Ca_Kabuli_Chr06	42625323	TT	AA	AA	INTERGENIC			
SNP_43926_A_42625501	NC_021165.1	Ca_Kabuli_Chr06	42625501	AA	GG	GG	INTERGENIC			
SNP_43927_A_42625524	NC_021165.1	Ca_Kabuli_Chr06	42625524	GG	TT	TT	INTERGENIC			
SNP_43928_A_42627676	NC_021165.1	Ca_Kabuli_Chr06	42627676	GG	AA	AA	INTERGENIC			
SNP_43929_A_42769388	NC_021165.1	Ca_Kabuli_Chr06	42769388	AA	GG	GG	URR		101497646	F-box/kelch-repeat protein SKIP11-like
SNP_43930_A_42816634	NC_021165.1	Ca_Kabuli_Chr06	42816634	AA	TT	TT	URR		101495810	E3 ubiquitin-protein ligase PRT1-like
SNP_43931_A_42823592	NC_021165.1	Ca_Kabuli_Chr06	42823592	AA	GG	GG	INTERGENIC			
SNP_43932_A_42859737	NC_021165.1	Ca_Kabuli_Chr06	42859737	GG	AA	AA	INTERGENIC			
SNP_43933_A_42859876	NC_021165.1	Ca_Kabuli_Chr06	42859876	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_43934_A_42859900	NC_021165.1	Ca_Kabuli_Chr06	42859900	GG	CC	CC	INTERGENIC		
SNP_43935_A_42864941	NC_021165.1	Ca_Kabuli_Chr06	42864941	AA	CC	CC	INTERGENIC		
SNP_43937_A_42896098	NC_021165.1	Ca_Kabuli_Chr06	42896098	GG	CC	CC	INTRON	101498975	zinc finger MYM-type protein 1-like
SNP_43938_A_42896100	NC_021165.1	Ca_Kabuli_Chr06	42896100	GG	AA	AA	INTRON	101498975	zinc finger MYM-type protein 1-like
SNP_43940_A_42907378	NC_021165.1	Ca_Kabuli_Chr06	42907378	CC	AA	AA	INTERGENIC		
SNP_43942_A_42937542	NC_021165.1	Ca_Kabuli_Chr06	42937542	CC	AA	AA	INTERGENIC		
SNP_43943_A_42937544	NC_021165.1	Ca_Kabuli_Chr06	42937544	CC	TT	TT	INTERGENIC		
SNP_43944_A_42937631	NC_021165.1	Ca_Kabuli_Chr06	42937631	CC	TT	TT	INTERGENIC		
SNP_43945_A_42939266	NC_021165.1	Ca_Kabuli_Chr06	42939266	TT	GG	GG	INTERGENIC		
SNP_43946_A_42940065	NC_021165.1	Ca_Kabuli_Chr06	42940065	AA	CC	CC	INTERGENIC		
SNP_43947_A_42940114	NC_021165.1	Ca_Kabuli_Chr06	42940114	TT	CC	CC	INTERGENIC		
SNP_43948_A_42940134	NC_021165.1	Ca_Kabuli_Chr06	42940134	GG	CC	CC	INTERGENIC		
SNP_43949_A_42940144	NC_021165.1	Ca_Kabuli_Chr06	42940144	TT	AA	AA	INTERGENIC		
SNP_43950_A_42940501	NC_021165.1	Ca_Kabuli_Chr06	42940501	GG	AA	AA	INTERGENIC		
SNP_43951_A_42946717	NC_021165.1	Ca_Kabuli_Chr06	42946717	CC	AA	AA	INTERGENIC		
SNP_43952_A_42980677	NC_021165.1	Ca_Kabuli_Chr06	42980677	CC	TT	TT	INTERGENIC		
SNP_43953_A_42993882	NC_021165.1	Ca_Kabuli_Chr06	42993882	AA	GG	GG	INTERGENIC		
SNP_43954_A_42999797	NC_021165.1	Ca_Kabuli_Chr06	42999797	TT	GG	GG	INTERGENIC		
SNP_43955_A_42999809	NC_021165.1	Ca_Kabuli_Chr06	42999809	CC	TT	TT	INTERGENIC		
SNP_43956_A_43010930	NC_021165.1	Ca_Kabuli_Chr06	43010930	TT	AA	AA	INTERGENIC		
SNP_43957_A_43011198	NC_021165.1	Ca_Kabuli_Chr06	43011198	TT	AA	AA	INTERGENIC		
SNP_43958_A_43012021	NC_021165.1	Ca_Kabuli_Chr06	43012021	AA	TT	TT	INTERGENIC		

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SNP_43959_A_43017614	NC_021165.1	Ca_Kabuli_Chr06	43017614	AA	TT	TT	INTERGENIC		
SNP_43961_A_43017670	NC_021165.1	Ca_Kabuli_Chr06	43017670	AA	CC	CC	INTERGENIC		
SNP_43962_A_43017691	NC_021165.1	Ca_Kabuli_Chr06	43017691	TT	CC	CC	INTERGENIC		
SNP_43963_A_43022097	NC_021165.1	Ca_Kabuli_Chr06	43022097	CC	GG	GG	INTERGENIC		
SNP_43964_A_43043060	NC_021165.1	Ca_Kabuli_Chr06	43043060	AA	GG	GG	URR	101497441	uncharacterized LOC101497441
SNP_43966_A_43043160	NC_021165.1	Ca_Kabuli_Chr06	43043160	AA	GG	GG	URR	101497441	uncharacterized LOC101497441
SNP_43967_A_43043349	NC_021165.1	Ca_Kabuli_Chr06	43043349	AA	TT	TT	URR	101497441	uncharacterized LOC101497441
SNP_43968_A_43045713	NC_021165.1	Ca_Kabuli_Chr06	43045713	CC	TT	TT	INTERGENIC		
SNP_43970_A_43045823	NC_021165.1	Ca_Kabuli_Chr06	43045823	GG	CC	CC	INTERGENIC		
SNP_43971_A_43045827	NC_021165.1	Ca_Kabuli_Chr06	43045827	CC	AA	AA	INTERGENIC		
SNP_43972_A_43045847	NC_021165.1	Ca_Kabuli_Chr06	43045847	AA	GG	GG	INTERGENIC		
SNP_43973_A_43045958	NC_021165.1	Ca_Kabuli_Chr06	43045958	TT	GG	GG	INTERGENIC		
SNP_43974_A_43045968	NC_021165.1	Ca_Kabuli_Chr06	43045968	CC	TT	TT	INTERGENIC		
SNP_43976_A_43050245	NC_021165.1	Ca_Kabuli_Chr06	43050245	GG	AA	AA	INTERGENIC		
SNP_43977_A_43053166	NC_021165.1	Ca_Kabuli_Chr06	43053166	AA	GG	GG	INTERGENIC		
SNP_43978_A_43058419	NC_021165.1	Ca_Kabuli_Chr06	43058419	AA	TT	TT	INTERGENIC		
SNP_43979_A_43059011	NC_021165.1	Ca_Kabuli_Chr06	43059011	AA	GG	GG	INTERGENIC		
SNP_43980_A_43059239	NC_021165.1	Ca_Kabuli_Chr06	43059239	TT	AA	AA	INTERGENIC		
SNP_43981_A_43060372	NC_021165.1	Ca_Kabuli_Chr06	43060372	CC	TT	TT	INTERGENIC		
SNP_43982_A_43060690	NC_021165.1	Ca_Kabuli_Chr06	43060690	CC	TT	TT	INTERGENIC		
SNP_43983_A_43060709	NC_021165.1	Ca_Kabuli_Chr06	43060709	CC	GG	GG	INTERGENIC		
SNP_43984_A_43061251	NC_021165.1	Ca_Kabuli_Chr06	43061251	CC	TT	TT	INTERGENIC		

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SNP_43985_A_43062195	NC_021165.1	Ca_Kabuli_Chr06	43062195	TT	CC	CC	INTERGENIC		
SNP_43986_A_43062263	NC_021165.1	Ca_Kabuli_Chr06	43062263	GG	TT	TT	INTERGENIC		
SNP_43987_A_43064245	NC_021165.1	Ca_Kabuli_Chr06	43064245	TT	AA	AA	INTERGENIC		
SNP_43988_A_43064263	NC_021165.1	Ca_Kabuli_Chr06	43064263	GG	AA	AA	INTERGENIC		
SNP_43990_A_43064373	NC_021165.1	Ca_Kabuli_Chr06	43064373	CC	AA	AA	INTERGENIC		
SNP_43991_A_43064385	NC_021165.1	Ca_Kabuli_Chr06	43064385	AA	GG	GG	INTERGENIC		
SNP_43992_A_43064386	NC_021165.1	Ca_Kabuli_Chr06	43064386	CC	AA	AA	INTERGENIC		
SNP_43993_A_43064401	NC_021165.1	Ca_Kabuli_Chr06	43064401	AA	TT	TT	INTERGENIC		
SNP_43994_A_43066540	NC_021165.1	Ca_Kabuli_Chr06	43066540	AA	CC	CC	INTERGENIC		
SNP_43995_A_43070528	NC_021165.1	Ca_Kabuli_Chr06	43070528	TT	AA	AA	INTERGENIC		
SNP_43996_A_43070529	NC_021165.1	Ca_Kabuli_Chr06	43070529	GG	TT	TT	INTERGENIC		
SNP_43997_A_43070578	NC_021165.1	Ca_Kabuli_Chr06	43070578	TT	CC	CC	INTERGENIC		
SNP_43998_A_43076929	NC_021165.1	Ca_Kabuli_Chr06	43076929	AA	GG	GG	INTERGENIC		
SNP_43999_A_43077738	NC_021165.1	Ca_Kabuli_Chr06	43077738	GG	AA	AA	INTERGENIC		
SNP_44000_A_43101184	NC_021165.1	Ca_Kabuli_Chr06	43101184	GG	CC	CC	INTERGENIC		
SNP_44001_A_43101353	NC_021165.1	Ca_Kabuli_Chr06	43101353	AA	TT	TT	INTERGENIC		
SNP_44002_A_43101358	NC_021165.1	Ca_Kabuli_Chr06	43101358	CC	TT	TT	INTERGENIC		
SNP_44004_A_43138283	NC_021165.1	Ca_Kabuli_Chr06	43138283	GG	TT	TT	INTERGENIC		
SNP_44007_A_43144582	NC_021165.1	Ca_Kabuli_Chr06	43144582	CC	AA	AA	INTRON	101501210	transcription factor GTE8-like
SNP_44009_A_43154162	NC_021165.1	Ca_Kabuli_Chr06	43154162	CC	TT	TT	INTERGENIC		
SNP_44010_A_43154435	NC_021165.1	Ca_Kabuli_Chr06	43154435	CC	TT	TT	INTERGENIC		
SNP_44011_A_43165721	NC_021165.1	Ca_Kabuli_Chr06	43165721	AA	CC	CC	INTERGENIC		

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SNP_44012_A_43165962	NC_021165.1	Ca_Kabuli_Chr06	43165962	AA	CC	CC	INTERGENIC			
SNP_44013_A_43166369	NC_021165.1	Ca_Kabuli_Chr06	43166369	CC	TT	TT	INTERGENIC			
SNP_44014_A_43166391	NC_021165.1	Ca_Kabuli_Chr06	43166391	AA	GG	GG	INTERGENIC			
SNP_44015_A_43166413	NC_021165.1	Ca_Kabuli_Chr06	43166413	AA	CC	CC	INTERGENIC			
SNP_44016_A_43166488	NC_021165.1	Ca_Kabuli_Chr06	43166488	TT	CC	CC	INTERGENIC			
SNP_44017_A_43166561	NC_021165.1	Ca_Kabuli_Chr06	43166561	CC	TT	TT	INTERGENIC			
SNP_44018_A_43166568	NC_021165.1	Ca_Kabuli_Chr06	43166568	TT	AA	AA	INTERGENIC			
SNP_44019_A_43166604	NC_021165.1	Ca_Kabuli_Chr06	43166604	AA	GG	GG	INTERGENIC			
SNP_44020_A_43166627	NC_021165.1	Ca_Kabuli_Chr06	43166627	TT	CC	CC	INTERGENIC			
SNP_44022_A_43166635	NC_021165.1	Ca_Kabuli_Chr06	43166635	AA	TT	TT	INTERGENIC			
SNP_44023_A_43166657	NC_021165.1	Ca_Kabuli_Chr06	43166657	AA	TT	TT	INTERGENIC			
SNP_44024_A_43166752	NC_021165.1	Ca_Kabuli_Chr06	43166752	TT	GG	GG	INTERGENIC			
SNP_44025_A_43166760	NC_021165.1	Ca_Kabuli_Chr06	43166760	CC	AA	AA	INTERGENIC			
SNP_44026_A_43166827	NC_021165.1	Ca_Kabuli_Chr06	43166827	GG	CC	CC	INTERGENIC			
SNP_44027_A_43167104	NC_021165.1	Ca_Kabuli_Chr06	43167104	AA	CC	CC	INTERGENIC			
SNP_44028_A_43167283	NC_021165.1	Ca_Kabuli_Chr06	43167283	TT	CC	CC	INTERGENIC			
SNP_44029_A_43167304	NC_021165.1	Ca_Kabuli_Chr06	43167304	CC	GG	GG	INTERGENIC			
SNP_44030_A_43167434	NC_021165.1	Ca_Kabuli_Chr06	43167434	AA	TT	TT	INTERGENIC			
SNP_44031_A_43167504	NC_021165.1	Ca_Kabuli_Chr06	43167504	TT	CC	CC	INTERGENIC			
SNP_44032_A_43167534	NC_021165.1	Ca_Kabuli_Chr06	43167534	TT	GG	GG	INTERGENIC			
SNP_44033_A_43167663	NC_021165.1	Ca_Kabuli_Chr06	43167663	GG	CC	CC	INTERGENIC			
SNP_44034_A_43167688	NC_021165.1	Ca_Kabuli_Chr06	43167688	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44035_A_43167741	NC_021165.1	Ca_Kabuli_Chr06	43167741	TT	AA	AA	INTERGENIC			
SNP_44036_A_43167752	NC_021165.1	Ca_Kabuli_Chr06	43167752	CC	TT	TT	INTERGENIC			
SNP_44037_A_43168704	NC_021165.1	Ca_Kabuli_Chr06	43168704	CC	TT	TT	INTERGENIC			
SNP_44038_A_43168716	NC_021165.1	Ca_Kabuli_Chr06	43168716	GG	CC	CC	INTERGENIC			
SNP_44039_A_43168762	NC_021165.1	Ca_Kabuli_Chr06	43168762	TT	CC	CC	INTERGENIC			
SNP_44040_A_43168763	NC_021165.1	Ca_Kabuli_Chr06	43168763	TT	AA	AA	INTERGENIC			
SNP_44041_A_43168806	NC_021165.1	Ca_Kabuli_Chr06	43168806	AA	TT	TT	INTERGENIC			
SNP_44042_A_43168832	NC_021165.1	Ca_Kabuli_Chr06	43168832	GG	AA	AA	INTERGENIC			
SNP_44043_A_43168835	NC_021165.1	Ca_Kabuli_Chr06	43168835	CC	GG	GG	INTERGENIC			
SNP_44044_A_43168901	NC_021165.1	Ca_Kabuli_Chr06	43168901	AA	GG	GG	INTERGENIC			
SNP_44045_A_43168955	NC_021165.1	Ca_Kabuli_Chr06	43168955	CC	TT	TT	INTERGENIC			
SNP_44046_A_43168971	NC_021165.1	Ca_Kabuli_Chr06	43168971	TT	GG	GG	INTERGENIC			
SNP_44047_A_43168979	NC_021165.1	Ca_Kabuli_Chr06	43168979	AA	GG	GG	INTERGENIC			
SNP_44048_A_43169168	NC_021165.1	Ca_Kabuli_Chr06	43169168	CC	TT	TT	INTERGENIC			
SNP_44049_A_43169184	NC_021165.1	Ca_Kabuli_Chr06	43169184	TT	CC	CC	INTERGENIC			
SNP_44050_A_43169245	NC_021165.1	Ca_Kabuli_Chr06	43169245	AA	GG	GG	INTERGENIC			
SNP_44051_A_43169249	NC_021165.1	Ca_Kabuli_Chr06	43169249	GG	CC	CC	INTERGENIC			
SNP_44052_A_43169366	NC_021165.1	Ca_Kabuli_Chr06	43169366	AA	CC	CC	INTERGENIC			
SNP_44053_A_43169394	NC_021165.1	Ca_Kabuli_Chr06	43169394	TT	CC	CC	INTERGENIC			
SNP_44054_A_43176146	NC_021165.1	Ca_Kabuli_Chr06	43176146	TT	CC	CC	INTERGENIC			
SNP_44055_A_43176175	NC_021165.1	Ca_Kabuli_Chr06	43176175	GG	AA	AA	INTERGENIC			
SNP_44056_A_43176244	NC_021165.1	Ca_Kabuli_Chr06	43176244	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44057_A_43178233	NC_021165.1	Ca_Kabuli_Chr06	43178233	GG	AA	AA	INTERGENIC			
SNP_44058_A_43659945	NC_021165.1	Ca_Kabuli_Chr06	43659945	TT	AA	AA	INTERGENIC			
SNP_44059_A_43673792	NC_021165.1	Ca_Kabuli_Chr06	43673792	CC	TT	TT	INTERGENIC			
SNP_44060_A_43707456	NC_021165.1	Ca_Kabuli_Chr06	43707456	TT	CC	CC	INTERGENIC			
SNP_44061_A_43707760	NC_021165.1	Ca_Kabuli_Chr06	43707760	TT	CC	CC	INTERGENIC			
SNP_44062_A_43707814	NC_021165.1	Ca_Kabuli_Chr06	43707814	GG	AA	AA	INTERGENIC			
SNP_44063_A_43707827	NC_021165.1	Ca_Kabuli_Chr06	43707827	TT	CC	CC	INTERGENIC			
SNP_44064_A_43770276	NC_021165.1	Ca_Kabuli_Chr06	43770276	AA	TT	TT	INTERGENIC			
SNP_44065_A_43770287	NC_021165.1	Ca_Kabuli_Chr06	43770287	AA	CC	CC	INTERGENIC			
SNP_44066_A_43770289	NC_021165.1	Ca_Kabuli_Chr06	43770289	GG	AA	AA	INTERGENIC			
SNP_44067_A_43770297	NC_021165.1	Ca_Kabuli_Chr06	43770297	TT	CC	CC	INTERGENIC			
SNP_44068_A_43808412	NC_021165.1	Ca_Kabuli_Chr06	43808412	CC	TT	TT	DRR	101506994	Unknown function	
SNP_44069_A_43842916	NC_021165.1	Ca_Kabuli_Chr06	43842916	CC	TT	TT	INTERGENIC			
SNP_44071_A_43847768	NC_021165.1	Ca_Kabuli_Chr06	43847768	TT	AA	AA	INTERGENIC			
SNP_44072_A_43881022	NC_021165.1	Ca_Kabuli_Chr06	43881022	AA	GG	GG	INTERGENIC			
SNP_44073_A_43885916	NC_021165.1	Ca_Kabuli_Chr06	43885916	TT	CC	CC	DRR	101507947	protein FAR-RED IMPAIRED RESPONSE 1-like	
SNP_44074_A_43889896	NC_021165.1	Ca_Kabuli_Chr06	43889896	TT	CC	CC	URR	101507947	protein FAR-RED IMPAIRED RESPONSE 1-like	
SNP_44075_A_43890506	NC_021165.1	Ca_Kabuli_Chr06	43890506	GG	AA	AA	URR	101507947	protein FAR-RED IMPAIRED RESPONSE 1-like	
SNP_44077_A_43909153	NC_021165.1	Ca_Kabuli_Chr06	43909153	TT	GG	GG	INTERGENIC			
SNP_44079_A_43909347	NC_021165.1	Ca_Kabuli_Chr06	43909347	TT	GG	GG	INTERGENIC			
SNP_44080_A_43909404	NC_021165.1	Ca_Kabuli_Chr06	43909404	AA	TT	TT	INTERGENIC			
SNP_44081_A_43909405	NC_021165.1	Ca_Kabuli_Chr06	43909405	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44082_A_43909406	NC_021165.1	Ca_Kabuli_Chr06	43909406	CC	TT	TT	INTERGENIC		
SNP_44083_A_43909407	NC_021165.1	Ca_Kabuli_Chr06	43909407	TT	GG	GG	INTERGENIC		
SNP_44084_A_43909413	NC_021165.1	Ca_Kabuli_Chr06	43909413	GG	AA	AA	INTERGENIC		
SNP_44085_A_43920010	NC_021165.1	Ca_Kabuli_Chr06	43920010	GG	AA	AA	URR	101508581	uncharacterized LOC101508581
SNP_44086_A_43920043	NC_021165.1	Ca_Kabuli_Chr06	43920043	GG	AA	AA	URR	101508581	uncharacterized LOC101508581
SNP_44087_A_43920046	NC_021165.1	Ca_Kabuli_Chr06	43920046	TT	CC	CC	URR	101508581	uncharacterized LOC101508581
SNP_44088_A_43929581	NC_021165.1	Ca_Kabuli_Chr06	43929581	CC	AA	AA	INTERGENIC		
SNP_44089_A_44044807	NC_021165.1	Ca_Kabuli_Chr06	44044807	TT	GG	GG	INTERGENIC		
SNP_44091_A_44117407	NC_021165.1	Ca_Kabuli_Chr06	44117407	GG	AA	AA	INTERGENIC		
SNP_44092_A_44152088	NC_021165.1	Ca_Kabuli_Chr06	44152088	AA	GG	GG	INTERGENIC		
SNP_44093_A_44160570	NC_021165.1	Ca_Kabuli_Chr06	44160570	GG	AA	AA	INTERGENIC		
SNP_44094_A_44160779	NC_021165.1	Ca_Kabuli_Chr06	44160779	TT	AA	AA	INTERGENIC		
SNP_44095_A_44160827	NC_021165.1	Ca_Kabuli_Chr06	44160827	TT	CC	CC	INTERGENIC		
SNP_44096_A_44160889	NC_021165.1	Ca_Kabuli_Chr06	44160889	AA	GG	GG	INTERGENIC		
SNP_44097_A_44160929	NC_021165.1	Ca_Kabuli_Chr06	44160929	CC	AA	AA	INTERGENIC		
SNP_44098_A_44160983	NC_021165.1	Ca_Kabuli_Chr06	44160983	AA	GG	GG	INTERGENIC		
SNP_44099_A_44160993	NC_021165.1	Ca_Kabuli_Chr06	44160993	GG	AA	AA	INTERGENIC		
SNP_44100_A_44161040	NC_021165.1	Ca_Kabuli_Chr06	44161040	TT	AA	AA	INTERGENIC		
SNP_44101_A_44161042	NC_021165.1	Ca_Kabuli_Chr06	44161042	GG	CC	CC	INTERGENIC		
SNP_44102_A_44179988	NC_021165.1	Ca_Kabuli_Chr06	44179988	CC	TT	TT	INTERGENIC		
SNP_44103_A_44180436	NC_021165.1	Ca_Kabuli_Chr06	44180436	AA	GG	GG	INTERGENIC		
SNP_44104_A_44235850	NC_021165.1	Ca_Kabuli_Chr06	44235850	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44105_A_44265437	NC_021165.1	Ca_Kabuli_Chr06	44265437	CC	AA	AA	INTERGENIC			
SNP_44106_A_44265449	NC_021165.1	Ca_Kabuli_Chr06	44265449	GG	AA	AA	INTERGENIC			
SNP_44107_A_44265487	NC_021165.1	Ca_Kabuli_Chr06	44265487	TT	CC	CC	INTERGENIC			
SNP_44109_A_44282189	NC_021165.1	Ca_Kabuli_Chr06	44282189	TT	CC	CC	INTERGENIC			
SNP_44110_A_44293796	NC_021165.1	Ca_Kabuli_Chr06	44293796	AA	GG	GG	INTERGENIC			
SNP_44111_A_44293974	NC_021165.1	Ca_Kabuli_Chr06	44293974	AA	GG	GG	INTERGENIC			
SNP_44112_A_44294199	NC_021165.1	Ca_Kabuli_Chr06	44294199	TT	CC	CC	INTERGENIC			
SNP_44113_A_44294318	NC_021165.1	Ca_Kabuli_Chr06	44294318	CC	TT	TT	INTERGENIC			
SNP_44114_A_44294329	NC_021165.1	Ca_Kabuli_Chr06	44294329	GG	AA	AA	INTERGENIC			
SNP_44115_A_44294338	NC_021165.1	Ca_Kabuli_Chr06	44294338	GG	AA	AA	INTERGENIC			
SNP_44116_A_44294342	NC_021165.1	Ca_Kabuli_Chr06	44294342	AA	GG	GG	INTERGENIC			
SNP_44117_A_44302036	NC_021165.1	Ca_Kabuli_Chr06	44302036	TT	CC	CC	INTERGENIC			
SNP_44118_A_44302075	NC_021165.1	Ca_Kabuli_Chr06	44302075	GG	AA	AA	INTERGENIC			
SNP_44119_A_44302091	NC_021165.1	Ca_Kabuli_Chr06	44302091	CC	TT	TT	INTERGENIC			
SNP_44120_A_44302114	NC_021165.1	Ca_Kabuli_Chr06	44302114	CC	GG	GG	INTERGENIC			
SNP_44121_A_44302462	NC_021165.1	Ca_Kabuli_Chr06	44302462	AA	CC	CC	INTERGENIC			
SNP_44122_A_44302518	NC_021165.1	Ca_Kabuli_Chr06	44302518	CC	TT	TT	INTERGENIC			
SNP_44123_A_44302575	NC_021165.1	Ca_Kabuli_Chr06	44302575	AA	TT	TT	INTERGENIC			
SNP_44124_A_44302576	NC_021165.1	Ca_Kabuli_Chr06	44302576	AA	GG	GG	INTERGENIC			
SNP_44125_A_44303247	NC_021165.1	Ca_Kabuli_Chr06	44303247	TT	CC	CC	INTERGENIC			
SNP_44126_A_44303279	NC_021165.1	Ca_Kabuli_Chr06	44303279	CC	TT	TT	INTERGENIC			
SNP_44127_A_44330792	NC_021165.1	Ca_Kabuli_Chr06	44330792	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44130_A_44424559	NC_021165.1	Ca_Kabuli_Chr06	44424559	AA	GG	GG	INTRON	101511908	uncharacterized LOC101511908
SNP_44131_A_44432334	NC_021165.1	Ca_Kabuli_Chr06	44432334	CC	TT	TT	INTRON	101511908	uncharacterized LOC101511908
SNP_44132_A_44438975	NC_021165.1	Ca_Kabuli_Chr06	44438975	CC	TT	TT	INTRON	101511908	uncharacterized LOC101511908
SNP_44133_A_44439297	NC_021165.1	Ca_Kabuli_Chr06	44439297	CC	GG	GG	INTRON	101511908	uncharacterized LOC101511908
SNP_44134_A_44495104	NC_021165.1	Ca_Kabuli_Chr06	44495104	GG	AA	AA	INTERGENIC		
SNP_44135_A_44516407	NC_021165.1	Ca_Kabuli_Chr06	44516407	AA	TT	TT	INTERGENIC		
SNP_44136_A_44516593	NC_021165.1	Ca_Kabuli_Chr06	44516593	GG	AA	AA	INTERGENIC		
SNP_44137_A_44516672	NC_021165.1	Ca_Kabuli_Chr06	44516672	GG	TT	TT	INTERGENIC		
SNP_44138_A_44516673	NC_021165.1	Ca_Kabuli_Chr06	44516673	TT	GG	GG	INTERGENIC		
SNP_44139_A_44516751	NC_021165.1	Ca_Kabuli_Chr06	44516751	CC	TT	TT	INTERGENIC		
SNP_44140_A_44582937	NC_021165.1	Ca_Kabuli_Chr06	44582937	AA	GG	GG	INTERGENIC		
SNP_44141_A_44626534	NC_021165.1	Ca_Kabuli_Chr06	44626534	AA	CC	CC	INTERGENIC		
SNP_44142_A_44626892	NC_021165.1	Ca_Kabuli_Chr06	44626892	GG	TT	TT	INTERGENIC		
SNP_44143_A_44626948	NC_021165.1	Ca_Kabuli_Chr06	44626948	CC	GG	GG	INTERGENIC		
SNP_44144_A_44626950	NC_021165.1	Ca_Kabuli_Chr06	44626950	AA	GG	GG	INTERGENIC		
SNP_44145_A_44627076	NC_021165.1	Ca_Kabuli_Chr06	44627076	AA	GG	GG	INTERGENIC		
SNP_44146_A_44627084	NC_021165.1	Ca_Kabuli_Chr06	44627084	TT	CC	CC	INTERGENIC		
SNP_44147_A_44627106	NC_021165.1	Ca_Kabuli_Chr06	44627106	AA	GG	GG	INTERGENIC		
SNP_44148_A_44648772	NC_021165.1	Ca_Kabuli_Chr06	44648772	CC	AA	AA	URR	101513410	uncharacterized LOC101513410
SNP_44149_A_44650806	NC_021165.1	Ca_Kabuli_Chr06	44650806	TT	CC	CC	INTERGENIC		
SNP_44150_A_44652532	NC_021165.1	Ca_Kabuli_Chr06	44652532	TT	GG	GG	INTERGENIC		
SNP_44151_A_44652573	NC_021165.1	Ca_Kabuli_Chr06	44652573	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44152_A_44652811	NC_021165.1	Ca_Kabuli_Chr06	44652811	AA	GG	GG	INTERGENIC			
SNP_44153_A_44653483	NC_021165.1	Ca_Kabuli_Chr06	44653483	TT	CC	CC	INTERGENIC			
SNP_44154_A_44653584	NC_021165.1	Ca_Kabuli_Chr06	44653584	TT	AA	AA	INTERGENIC			
SNP_44155_A_44653850	NC_021165.1	Ca_Kabuli_Chr06	44653850	TT	CC	CC	INTERGENIC			
SNP_44156_A_44653872	NC_021165.1	Ca_Kabuli_Chr06	44653872	GG	AA	AA	INTERGENIC			
SNP_44157_A_44654059	NC_021165.1	Ca_Kabuli_Chr06	44654059	AA	TT	TT	INTERGENIC			
SNP_44158_A_44654510	NC_021165.1	Ca_Kabuli_Chr06	44654510	TT	CC	CC	INTERGENIC			
SNP_44159_A_44654696	NC_021165.1	Ca_Kabuli_Chr06	44654696	CC	TT	TT	INTERGENIC			
SNP_44160_A_44678169	NC_021165.1	Ca_Kabuli_Chr06	44678169	GG	TT	TT	INTERGENIC			
SNP_44161_A_44678281	NC_021165.1	Ca_Kabuli_Chr06	44678281	AA	TT	TT	INTERGENIC			
SNP_44162_A_44678318	NC_021165.1	Ca_Kabuli_Chr06	44678318	TT	GG	GG	INTERGENIC			
SNP_44163_A_44680132	NC_021165.1	Ca_Kabuli_Chr06	44680132	CC	TT	TT	SYNONYMOUS_CODING	Gene_ma22496		Unknown function
SNP_44164_A_44680156	NC_021165.1	Ca_Kabuli_Chr06	44680156	CC	TT	TT	URR	101410588		transfer RNA lysine (anticodon CUU)
SNP_44165_A_44680162	NC_021165.1	Ca_Kabuli_Chr06	44680162	CC	TT	TT	URR	101410588		transfer RNA lysine (anticodon CUU)
SNP_44166_A_44680506	NC_021165.1	Ca_Kabuli_Chr06	44680506	CC	TT	TT	URR	101410588		transfer RNA lysine (anticodon CUU)
SNP_44167_A_44681644	NC_021165.1	Ca_Kabuli_Chr06	44681644	GG	AA	AA	URR	101410588		transfer RNA lysine (anticodon CUU)
SNP_44168_A_44681983	NC_021165.1	Ca_Kabuli_Chr06	44681983	TT	CC	CC	URR	101410588		transfer RNA lysine (anticodon CUU)
SNP_44169_A_44682605	NC_021165.1	Ca_Kabuli_Chr06	44682605	AA	GG	GG	INTERGENIC			
SNP_44170_A_44682608	NC_021165.1	Ca_Kabuli_Chr06	44682608	GG	AA	AA	INTERGENIC			
SNP_44171_A_44682821	NC_021165.1	Ca_Kabuli_Chr06	44682821	AA	TT	TT	INTERGENIC			
SNP_44172_A_44682923	NC_021165.1	Ca_Kabuli_Chr06	44682923	AA	GG	GG	INTERGENIC			
SNP_44173_A_44682958	NC_021165.1	Ca_Kabuli_Chr06	44682958	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44174_A_44683107	NC_021165.1	Ca_Kabuli_Chr06	44683107	TT	CC	CC	INTERGENIC		
SNP_44175_A_44700012	NC_021165.1	Ca_Kabuli_Chr06	44700012	AA	GG	GG	INTERGENIC		
SNP_44176_A_44700112	NC_021165.1	Ca_Kabuli_Chr06	44700112	GG	TT	TT	INTERGENIC		
SNP_44177_A_44700127	NC_021165.1	Ca_Kabuli_Chr06	44700127	CC	TT	TT	INTERGENIC		
SNP_44178_A_44707046	NC_021165.1	Ca_Kabuli_Chr06	44707046	GG	CC	CC	INTERGENIC		
SNP_44179_A_44707058	NC_021165.1	Ca_Kabuli_Chr06	44707058	GG	AA	AA	INTERGENIC		
SNP_44180_A_44707308	NC_021165.1	Ca_Kabuli_Chr06	44707308	CC	TT	TT	INTERGENIC		
SNP_44181_A_44709054	NC_021165.1	Ca_Kabuli_Chr06	44709054	GG	CC	CC	DRR	101508065	uncharacterized LOC101508065
SNP_44182_A_44709079	NC_021165.1	Ca_Kabuli_Chr06	44709079	CC	TT	TT	DRR	101508065	uncharacterized LOC101508065
SNP_44183_A_44709081	NC_021165.1	Ca_Kabuli_Chr06	44709081	AA	CC	CC	DRR	101508065	uncharacterized LOC101508065
SNP_44184_A_44709123	NC_021165.1	Ca_Kabuli_Chr06	44709123	CC	TT	TT	SYNONYMOUS_CODING	101508065	uncharacterized LOC101508065
SNP_44185_A_44709126	NC_021165.1	Ca_Kabuli_Chr06	44709126	AA	GG	GG	SYNONYMOUS_CODING	101508065	uncharacterized LOC101508065
SNP_44186_A_44709425	NC_021165.1	Ca_Kabuli_Chr06	44709425	GG	AA	AA	STOP_GAINED	101508065	uncharacterized LOC101508065
SNP_44187_A_44709811	NC_021165.1	Ca_Kabuli_Chr06	44709811	AA	CC	CC	NON_SYNONYMOUS_CODING	101508065	uncharacterized LOC101508065
SNP_44188_A_44709823	NC_021165.1	Ca_Kabuli_Chr06	44709823	TT	CC	CC	NON_SYNONYMOUS_CODING	101508065	uncharacterized LOC101508065
SNP_44189_A_44713012	NC_021165.1	Ca_Kabuli_Chr06	44713012	TT	CC	CC	URR	101508065	uncharacterized LOC101508065
SNP_44190_A_44724314	NC_021165.1	Ca_Kabuli_Chr06	44724314	AA	GG	GG	INTERGENIC		
SNP_44191_A_44726760	NC_021165.1	Ca_Kabuli_Chr06	44726760	CC	GG	GG	INTERGENIC		
SNP_44192_A_44727178	NC_021165.1	Ca_Kabuli_Chr06	44727178	AA	GG	GG	INTERGENIC		
SNP_44193_A_44727471	NC_021165.1	Ca_Kabuli_Chr06	44727471	AA	CC	CC	INTERGENIC		
SNP_44194_A_44737973	NC_021165.1	Ca_Kabuli_Chr06	44737973	CC	TT	TT	INTERGENIC		
SNP_44195_A_44738091	NC_021165.1	Ca_Kabuli_Chr06	44738091	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44196_A_44738422	NC_021165.1	Ca_Kabuli_Chr06	44738422	TT	CC	CC	INTERGENIC		
SNP_44197_A_44758440	NC_021165.1	Ca_Kabuli_Chr06	44758440	AA	GG	GG	INTERGENIC		
SNP_44198_A_44776401	NC_021165.1	Ca_Kabuli_Chr06	44776401	GG	AA	AA	INTERGENIC		
SNP_44199_A_44776760	NC_021165.1	Ca_Kabuli_Chr06	44776760	AA	CC	CC	INTERGENIC		
SNP_44200_A_44820616	NC_021165.1	Ca_Kabuli_Chr06	44820616	TT	CC	CC	INTERGENIC		
SNP_44201_A_44888005	NC_021165.1	Ca_Kabuli_Chr06	44888005	GG	TT	TT	INTERGENIC		
SNP_44202_A_44950524	NC_021165.1	Ca_Kabuli_Chr06	44950524	AA	CC	CC	INTERGENIC		
SNP_44203_A_44953637	NC_021165.1	Ca_Kabuli_Chr06	44953637	TT	CC	CC	INTERGENIC		
SNP_44204_A_44954110	NC_021165.1	Ca_Kabuli_Chr06	44954110	AA	CC	CC	DRR	101511260	Unknown function
SNP_44205_A_44954224	NC_021165.1	Ca_Kabuli_Chr06	44954224	GG	AA	AA	DRR	101511260	Unknown function
SNP_44206_A_44954265	NC_021165.1	Ca_Kabuli_Chr06	44954265	GG	AA	AA	DRR	101511260	Unknown function
SNP_44207_A_44954270	NC_021165.1	Ca_Kabuli_Chr06	44954270	TT	CC	CC	DRR	101511260	Unknown function
SNP_44208_A_44954273	NC_021165.1	Ca_Kabuli_Chr06	44954273	CC	TT	TT	DRR	101511260	Unknown function
SNP_44209_A_44954276	NC_021165.1	Ca_Kabuli_Chr06	44954276	GG	AA	AA	DRR	101511260	Unknown function
SNP_44210_A_44954615	NC_021165.1	Ca_Kabuli_Chr06	44954615	GG	AA	AA	DRR	101511260	Unknown function
SNP_44211_A_44956319	NC_021165.1	Ca_Kabuli_Chr06	44956319	TT	CC	CC	INTRON	101511260	Unknown function
SNP_44212_A_44960315	NC_021165.1	Ca_Kabuli_Chr06	44960315	AA	GG	GG	INTERGENIC		
SNP_44213_A_44960372	NC_021165.1	Ca_Kabuli_Chr06	44960372	AA	TT	TT	INTERGENIC		
SNP_44214_A_44960537	NC_021165.1	Ca_Kabuli_Chr06	44960537	AA	GG	GG	INTERGENIC		
SNP_44215_A_44960546	NC_021165.1	Ca_Kabuli_Chr06	44960546	TT	AA	AA	INTERGENIC		
SNP_44216_A_44960554	NC_021165.1	Ca_Kabuli_Chr06	44960554	GG	AA	AA	INTERGENIC		
SNP_44217_A_44960677	NC_021165.1	Ca_Kabuli_Chr06	44960677	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44218_A_44960686	NC_021165.1	Ca_Kabuli_Chr06	44960686	GG	AA	AA	INTERGENIC		
SNP_44219_A_44960692	NC_021165.1	Ca_Kabuli_Chr06	44960692	GG	AA	AA	INTERGENIC		
SNP_44220_A_44960704	NC_021165.1	Ca_Kabuli_Chr06	44960704	CC	TT	TT	INTERGENIC		
SNP_44221_A_44977012	NC_021165.1	Ca_Kabuli_Chr06	44977012	TT	CC	CC	INTERGENIC		
SNP_44222_A_44996613	NC_021165.1	Ca_Kabuli_Chr06	44996613	CC	TT	TT	INTERGENIC		
SNP_44223_A_44996739	NC_021165.1	Ca_Kabuli_Chr06	44996739	GG	AA	AA	INTERGENIC		
SNP_44225_A_45018832	NC_021165.1	Ca_Kabuli_Chr06	45018832	CC	AA	AA	INTERGENIC		
SNP_44226_A_45064580	NC_021165.1	Ca_Kabuli_Chr06	45064580	GG	AA	AA	DRR	101513201	uncharacterized LOC101513201
SNP_44227_A_45067623	NC_021165.1	Ca_Kabuli_Chr06	45067623	TT	CC	CC	INTERGENIC		
SNP_44228_A_45135131	NC_021165.1	Ca_Kabuli_Chr06	45135131	AA	GG	GG	INTERGENIC		
SNP_44229_A_45135153	NC_021165.1	Ca_Kabuli_Chr06	45135153	GG	TT	TT	INTERGENIC		
SNP_44230_A_45144047	NC_021165.1	Ca_Kabuli_Chr06	45144047	TT	CC	CC	URR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_44231_A_45164348	NC_021165.1	Ca_Kabuli_Chr06	45164348	AA	CC	CC	INTERGENIC		
SNP_44232_A_45164418	NC_021165.1	Ca_Kabuli_Chr06	45164418	AA	CC	CC	INTERGENIC		
SNP_44233_A_45164684	NC_021165.1	Ca_Kabuli_Chr06	45164684	CC	TT	TT	INTERGENIC		
SNP_44234_A_45200883	NC_021165.1	Ca_Kabuli_Chr06	45200883	AA	CC	CC	DRR	101514500	uncharacterized LOC101514500
SNP_44235_A_45274614	NC_021165.1	Ca_Kabuli_Chr06	45274614	CC	TT	TT	INTERGENIC		
SNP_44236_A_45274623	NC_021165.1	Ca_Kabuli_Chr06	45274623	TT	CC	CC	INTERGENIC		
SNP_44237_A_45274641	NC_021165.1	Ca_Kabuli_Chr06	45274641	AA	TT	TT	INTERGENIC		
SNP_44238_A_45274661	NC_021165.1	Ca_Kabuli_Chr06	45274661	TT	AA	AA	INTERGENIC		
SNP_44239_A_45274669	NC_021165.1	Ca_Kabuli_Chr06	45274669	CC	AA	AA	INTERGENIC		
SNP_44240_A_45274704	NC_021165.1	Ca_Kabuli_Chr06	45274704	AA	GG	GG	INTERGENIC		

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SNP_44241_A_45274710	NC_021165.1	Ca_Kabuli_Chr06	45274710	TT	GG	GG	INTERGENIC			
SNP_44242_A_45274842	NC_021165.1	Ca_Kabuli_Chr06	45274842	AA	GG	GG	INTERGENIC			
SNP_44243_A_45274884	NC_021165.1	Ca_Kabuli_Chr06	45274884	CC	TT	TT	INTERGENIC			
SNP_44244_A_45274894	NC_021165.1	Ca_Kabuli_Chr06	45274894	AA	GG	GG	INTERGENIC			
SNP_44245_A_45274902	NC_021165.1	Ca_Kabuli_Chr06	45274902	TT	CC	CC	INTERGENIC			
SNP_44246_A_45274932	NC_021165.1	Ca_Kabuli_Chr06	45274932	TT	AA	AA	INTERGENIC			
SNP_44247_A_45274935	NC_021165.1	Ca_Kabuli_Chr06	45274935	TT	CC	CC	INTERGENIC			
SNP_44248_A_45274947	NC_021165.1	Ca_Kabuli_Chr06	45274947	GG	AA	AA	INTERGENIC			
SNP_44249_A_45275303	NC_021165.1	Ca_Kabuli_Chr06	45275303	TT	CC	CC	INTERGENIC			
SNP_44250_A_45277882	NC_021165.1	Ca_Kabuli_Chr06	45277882	AA	GG	GG	INTERGENIC			
SNP_44251_A_45277885	NC_021165.1	Ca_Kabuli_Chr06	45277885	TT	AA	AA	INTERGENIC			
SNP_44252_A_45277888	NC_021165.1	Ca_Kabuli_Chr06	45277888	CC	TT	TT	INTERGENIC			
SNP_44253_A_45277908	NC_021165.1	Ca_Kabuli_Chr06	45277908	TT	GG	GG	INTERGENIC			
SNP_44254_A_45277909	NC_021165.1	Ca_Kabuli_Chr06	45277909	TT	GG	GG	INTERGENIC			
SNP_44255_A_45289616	NC_021165.1	Ca_Kabuli_Chr06	45289616	CC	TT	TT	INTERGENIC			
SNP_44256_A_45290210	NC_021165.1	Ca_Kabuli_Chr06	45290210	AA	GG	GG	INTERGENIC			
SNP_44257_A_45290265	NC_021165.1	Ca_Kabuli_Chr06	45290265	AA	GG	GG	INTERGENIC			
SNP_44258_A_45290473	NC_021165.1	Ca_Kabuli_Chr06	45290473	AA	TT	TT	INTERGENIC			
SNP_44259_A_45290475	NC_021165.1	Ca_Kabuli_Chr06	45290475	AA	TT	TT	INTERGENIC			
SNP_44260_A_45304966	NC_021165.1	Ca_Kabuli_Chr06	45304966	AA	CC	CC	URR	101514820	uncharacterized LOC101514820	
SNP_44262_A_45329327	NC_021165.1	Ca_Kabuli_Chr06	45329327	CC	TT	TT	INTERGENIC			
SNP_44263_A_45329473	NC_021165.1	Ca_Kabuli_Chr06	45329473	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44264_A_45329567	NC_021165.1	Ca_Kabuli_Chr06	45329567	TT	CC	CC	INTERGENIC			
SNP_44265_A_45365754	NC_021165.1	Ca_Kabuli_Chr06	45365754	GG	AA	AA	INTERGENIC			
SNP_44266_A_45375376	NC_021165.1	Ca_Kabuli_Chr06	45375376	TT	AA	AA	INTERGENIC			
SNP_44267_A_45392324	NC_021165.1	Ca_Kabuli_Chr06	45392324	CC	AA	AA	INTERGENIC			
SNP_44268_A_45392691	NC_021165.1	Ca_Kabuli_Chr06	45392691	AA	GG	GG	INTERGENIC			
SNP_44269_A_45405853	NC_021165.1	Ca_Kabuli_Chr06	45405853	AA	TT	TT	INTERGENIC			
SNP_44270_A_45405969	NC_021165.1	Ca_Kabuli_Chr06	45405969	AA	TT	TT	INTERGENIC			
SNP_44271_A_45405995	NC_021165.1	Ca_Kabuli_Chr06	45405995	TT	GG	GG	INTERGENIC			
SNP_44272_A_45469568	NC_021165.1	Ca_Kabuli_Chr06	45469568	GG	CC	CC	INTERGENIC			
SNP_44273_A_45469625	NC_021165.1	Ca_Kabuli_Chr06	45469625	TT	CC	CC	INTERGENIC			
SNP_44274_A_45469954	NC_021165.1	Ca_Kabuli_Chr06	45469954	TT	CC	CC	INTERGENIC			
SNP_44276_A_45473358	NC_021165.1	Ca_Kabuli_Chr06	45473358	CC	TT	TT	INTERGENIC			
SNP_44277_A_45473384	NC_021165.1	Ca_Kabuli_Chr06	45473384	AA	GG	GG	INTERGENIC			
SNP_44278_A_45473407	NC_021165.1	Ca_Kabuli_Chr06	45473407	TT	CC	CC	INTERGENIC			
SNP_44279_A_45473729	NC_021165.1	Ca_Kabuli_Chr06	45473729	CC	TT	TT	INTERGENIC			
SNP_44280_A_45473848	NC_021165.1	Ca_Kabuli_Chr06	45473848	AA	GG	GG	INTERGENIC			
SNP_44282_A_45502335	NC_021165.1	Ca_Kabuli_Chr06	45502335	TT	CC	CC	INTRON	101497776	uncharacterized LOC101497776	
SNP_44283_A_45564482	NC_021165.1	Ca_Kabuli_Chr06	45564482	GG	TT	TT	INTERGENIC			
SNP_44284_A_45567817	NC_021165.1	Ca_Kabuli_Chr06	45567817	TT	GG	GG	INTERGENIC			
SNP_44285_A_45585452	NC_021165.1	Ca_Kabuli_Chr06	45585452	AA	TT	TT	INTERGENIC			
SNP_44286_A_45585577	NC_021165.1	Ca_Kabuli_Chr06	45585577	CC	TT	TT	INTERGENIC			
SNP_44287_A_45585668	NC_021165.1	Ca_Kabuli_Chr06	45585668	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44288_A_45585669	NC_021165.1	Ca_Kabuli_Chr06	45585669	AA	GG	GG	INTERGENIC		
SNP_44289_A_45598335	NC_021165.1	Ca_Kabuli_Chr06	45598335	AA	GG	GG	INTERGENIC		
SNP_44290_A_45642861	NC_021165.1	Ca_Kabuli_Chr06	45642861	AA	GG	GG	INTERGENIC		
SNP_44291_A_45642876	NC_021165.1	Ca_Kabuli_Chr06	45642876	TT	GG	GG	INTERGENIC		
SNP_44292_A_45643318	NC_021165.1	Ca_Kabuli_Chr06	45643318	CC	TT	TT	INTERGENIC		
SNP_44293_A_45643364	NC_021165.1	Ca_Kabuli_Chr06	45643364	AA	GG	GG	INTERGENIC		
SNP_44294_A_45851028	NC_021165.1	Ca_Kabuli_Chr06	45851028	TT	AA	AA	INTERGENIC		
SNP_44295_A_45851383	NC_021165.1	Ca_Kabuli_Chr06	45851383	TT	CC	CC	INTERGENIC		
SNP_44296_A_45851857	NC_021165.1	Ca_Kabuli_Chr06	45851857	TT	CC	CC	INTERGENIC		
SNP_44297_A_45872643	NC_021165.1	Ca_Kabuli_Chr06	45872643	AA	GG	GG	INTERGENIC		
SNP_44298_A_45872645	NC_021165.1	Ca_Kabuli_Chr06	45872645	GG	AA	AA	INTERGENIC		
SNP_44299_A_45896358	NC_021165.1	Ca_Kabuli_Chr06	45896358	GG	CC	CC	INTERGENIC		
SNP_44300_A_45896360	NC_021165.1	Ca_Kabuli_Chr06	45896360	AA	CC	CC	INTERGENIC		
SNP_44301_A_45896661	NC_021165.1	Ca_Kabuli_Chr06	45896661	AA	GG	GG	INTERGENIC		
SNP_44302_A_45912971	NC_021165.1	Ca_Kabuli_Chr06	45912971	AA	GG	GG	NON_SYNONYMOUS_CODING	101504626	cytochrome P450 71D9-like
SNP_44304_A_45924974	NC_021165.1	Ca_Kabuli_Chr06	45924974	AA	GG	GG	INTERGENIC		
SNP_44305_A_45925368	NC_021165.1	Ca_Kabuli_Chr06	45925368	TT	CC	CC	INTERGENIC		
SNP_44306_A_45960452	NC_021165.1	Ca_Kabuli_Chr06	45960452	TT	AA	AA	INTERGENIC		
SNP_44307_A_45960454	NC_021165.1	Ca_Kabuli_Chr06	45960454	TT	CC	CC	INTERGENIC		
SNP_44308_A_45999374	NC_021165.1	Ca_Kabuli_Chr06	45999374	TT	CC	CC	INTRON	101505255	cytochrome P450 71D11-like
SNP_44309_A_45999631	NC_021165.1	Ca_Kabuli_Chr06	45999631	AA	GG	GG	INTRON	101505255	cytochrome P450 71D11-like
SNP_44310_A_45999636	NC_021165.1	Ca_Kabuli_Chr06	45999636	AA	GG	GG	INTRON	101505255	cytochrome P450 71D11-like

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SNP_44311_A_45999690	NC_021165.1	Ca_Kabuli_Chr06	45999690	AA	CC	CC	INTRON	101505255	cytochrome P450 71D11-like
SNP_44312_A_46006543	NC_021165.1	Ca_Kabuli_Chr06	46006543	CC	TT	TT	INTERGENIC		
SNP_44313_A_46006545	NC_021165.1	Ca_Kabuli_Chr06	46006545	TT	AA	AA	INTERGENIC		
SNP_44314_A_46009450	NC_021165.1	Ca_Kabuli_Chr06	46009450	AA	TT	TT	INTRON	101494400	serine/threonine-protein phosphatase 7 long form homolog
SNP_44315_A_46009481	NC_021165.1	Ca_Kabuli_Chr06	46009481	AA	GG	GG	INTRON	101494400	serine/threonine-protein phosphatase 7 long form homolog
SNP_44316_A_46009493	NC_021165.1	Ca_Kabuli_Chr06	46009493	AA	TT	TT	INTRON	101494400	serine/threonine-protein phosphatase 7 long form homolog
SNP_44317_A_46029211	NC_021165.1	Ca_Kabuli_Chr06	46029211	AA	CC	CC	INTERGENIC		
SNP_44319_A_46031182	NC_021165.1	Ca_Kabuli_Chr06	46031182	GG	AA	AA	INTERGENIC		
SNP_44321_A_46035724	NC_021165.1	Ca_Kabuli_Chr06	46035724	AA	GG	GG	INTERGENIC		
SNP_44322_A_46036150	NC_021165.1	Ca_Kabuli_Chr06	46036150	GG	AA	AA	INTERGENIC		
SNP_44323_A_46036175	NC_021165.1	Ca_Kabuli_Chr06	46036175	CC	TT	TT	INTERGENIC		
SNP_44324_A_46036212	NC_021165.1	Ca_Kabuli_Chr06	46036212	GG	AA	AA	INTERGENIC		
SNP_44325_A_46112923	NC_021165.1	Ca_Kabuli_Chr06	46112923	GG	AA	AA	INTERGENIC		
SNP_44326_A_46116863	NC_021165.1	Ca_Kabuli_Chr06	46116863	TT	CC	CC	INTERGENIC		
SNP_44327_A_46116957	NC_021165.1	Ca_Kabuli_Chr06	46116957	AA	GG	GG	INTERGENIC		
SNP_44328_A_46118987	NC_021165.1	Ca_Kabuli_Chr06	46118987	TT	CC	CC	INTERGENIC		
SNP_44330_A_46152445	NC_021165.1	Ca_Kabuli_Chr06	46152445	AA	TT	TT	DOWNSTREAM	LARS	Unknown function
SNP_44331_A_46163499	NC_021165.1	Ca_Kabuli_Chr06	46163499	AA	CC	CC	URR	101506554	leucine-tRNA ligase, cytoplasmic
SNP_44332_A_46163512	NC_021165.1	Ca_Kabuli_Chr06	46163512	GG	CC	CC	URR	101506554	leucine-tRNA ligase, cytoplasmic
SNP_44334_A_46164533	NC_021165.1	Ca_Kabuli_Chr06	46164533	GG	TT	TT	INTERGENIC		
SNP_44335_A_46164743	NC_021165.1	Ca_Kabuli_Chr06	46164743	TT	CC	CC	INTERGENIC		
SNP_44336_A_46164755	NC_021165.1	Ca_Kabuli_Chr06	46164755	GG	TT	TT	INTERGENIC		

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SNP_44337_A_46164775	NC_021165.1	Ca_Kabuli_Chr06	46164775	AA	CC	CC	INTERGENIC			
SNP_44338_A_46164790	NC_021165.1	Ca_Kabuli_Chr06	46164790	GG	CC	CC	INTERGENIC			
SNP_44339_A_46180724	NC_021165.1	Ca_Kabuli_Chr06	46180724	TT	CC	CC	INTERGENIC			
SNP_44340_A_46180738	NC_021165.1	Ca_Kabuli_Chr06	46180738	TT	CC	CC	INTERGENIC			
SNP_44341_A_46180766	NC_021165.1	Ca_Kabuli_Chr06	46180766	TT	CC	CC	INTERGENIC			
SNP_44342_A_46181062	NC_021165.1	Ca_Kabuli_Chr06	46181062	CC	TT	TT	INTERGENIC			
SNP_44343_A_46181102	NC_021165.1	Ca_Kabuli_Chr06	46181102	GG	TT	TT	INTERGENIC			
SNP_44344_A_46186996	NC_021165.1	Ca_Kabuli_Chr06	46186996	AA	GG	GG	INTERGENIC			
SNP_44345_A_46187032	NC_021165.1	Ca_Kabuli_Chr06	46187032	AA	GG	GG	INTERGENIC			
SNP_44346_A_46187057	NC_021165.1	Ca_Kabuli_Chr06	46187057	GG	CC	CC	INTERGENIC			
SNP_44348_A_46203199	NC_021165.1	Ca_Kabuli_Chr06	46203199	AA	GG	GG	INTERGENIC			
SNP_44349_A_46210371	NC_021165.1	Ca_Kabuli_Chr06	46210371	AA	GG	GG	INTERGENIC			
SNP_44350_A_46346520	NC_021165.1	Ca_Kabuli_Chr06	46346520	GG	AA	AA	INTERGENIC			
SNP_44351_A_46346543	NC_021165.1	Ca_Kabuli_Chr06	46346543	GG	AA	AA	INTERGENIC			
SNP_44352_A_46346636	NC_021165.1	Ca_Kabuli_Chr06	46346636	AA	GG	GG	INTERGENIC			
SNP_44353_A_46346689	NC_021165.1	Ca_Kabuli_Chr06	46346689	TT	CC	CC	INTERGENIC			
SNP_44354_A_46346854	NC_021165.1	Ca_Kabuli_Chr06	46346854	TT	CC	CC	INTERGENIC			
SNP_44355_A_46351999	NC_021165.1	Ca_Kabuli_Chr06	46351999	GG	AA	AA	INTERGENIC			
SNP_44356_A_46352003	NC_021165.1	Ca_Kabuli_Chr06	46352003	AA	GG	GG	INTERGENIC			
SNP_44357_A_46354332	NC_021165.1	Ca_Kabuli_Chr06	46354332	AA	GG	GG	INTERGENIC			
SNP_44358_A_46354397	NC_021165.1	Ca_Kabuli_Chr06	46354397	AA	GG	GG	INTERGENIC			
SNP_44359_A_46354673	NC_021165.1	Ca_Kabuli_Chr06	46354673	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44360_A_46354700	NC_021165.1	Ca_Kabuli_Chr06	46354700	AA	GG	GG	INTERGENIC		
SNP_44361_A_46354886	NC_021165.1	Ca_Kabuli_Chr06	46354886	TT	AA	AA	INTERGENIC		
SNP_44362_A_46354906	NC_021165.1	Ca_Kabuli_Chr06	46354906	CC	TT	TT	INTERGENIC		
SNP_44363_A_46354937	NC_021165.1	Ca_Kabuli_Chr06	46354937	TT	AA	AA	INTERGENIC		
SNP_44364_A_46365987	NC_021165.1	Ca_Kabuli_Chr06	46365987	TT	CC	CC	DRR	101508485	uncharacterized LOC101508485
SNP_44365_A_46366337	NC_021165.1	Ca_Kabuli_Chr06	46366337	GG	AA	AA	DRR	101508485	uncharacterized LOC101508485
SNP_44366_A_46368078	NC_021165.1	Ca_Kabuli_Chr06	46368078	TT	CC	CC	NON_SYNONYMOUS_CODING	101508485	uncharacterized LOC101508485
SNP_44367_A_46368873	NC_021165.1	Ca_Kabuli_Chr06	46368873	AA	GG	GG	NON_SYNONYMOUS_CODING	101508485	uncharacterized LOC101508485
SNP_44368_A_46368965	NC_021165.1	Ca_Kabuli_Chr06	46368965	GG	AA	AA	SYNONYMOUS_CODING	101508485	uncharacterized LOC101508485
SNP_44369_A_46369159	NC_021165.1	Ca_Kabuli_Chr06	46369159	GG	CC	CC	NON_SYNONYMOUS_CODING	101508485	uncharacterized LOC101508485
SNP_44370_A_46369221	NC_021165.1	Ca_Kabuli_Chr06	46369221	AA	CC	CC	NON_SYNONYMOUS_CODING	101508485	uncharacterized LOC101508485
SNP_44371_A_46369314	NC_021165.1	Ca_Kabuli_Chr06	46369314	TT	CC	CC	URR	101508485	uncharacterized LOC101508485
SNP_44372_A_46369442	NC_021165.1	Ca_Kabuli_Chr06	46369442	AA	GG	GG	URR	101508485	uncharacterized LOC101508485
SNP_44373_A_46369509	NC_021165.1	Ca_Kabuli_Chr06	46369509	AA	GG	GG	URR	101508485	uncharacterized LOC101508485
SNP_44374_A_46369548	NC_021165.1	Ca_Kabuli_Chr06	46369548	TT	CC	CC	URR	101508485	uncharacterized LOC101508485
SNP_44375_A_46369584	NC_021165.1	Ca_Kabuli_Chr06	46369584	AA	CC	CC	URR	101508485	uncharacterized LOC101508485
SNP_44376_A_46369801	NC_021165.1	Ca_Kabuli_Chr06	46369801	AA	GG	GG	URR	101508485	uncharacterized LOC101508485
SNP_44377_A_46385492	NC_021165.1	Ca_Kabuli_Chr06	46385492	CC	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44378_A_46385816	NC_021165.1	Ca_Kabuli_Chr06	46385816	CC	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44379_A_46385918	NC_021165.1	Ca_Kabuli_Chr06	46385918	AA	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44380_A_46385934	NC_021165.1	Ca_Kabuli_Chr06	46385934	GG	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44382_A_46388400	NC_021165.1	Ca_Kabuli_Chr06	46388400	TT	AA	AA	INTRON	101508794	uncharacterized LOC101508794

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44383_A_46388446	NC_021165.1	Ca_Kabuli_Chr06	46388446	AA	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44384_A_46388462	NC_021165.1	Ca_Kabuli_Chr06	46388462	AA	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44385_A_46388464	NC_021165.1	Ca_Kabuli_Chr06	46388464	GG	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44386_A_46390954	NC_021165.1	Ca_Kabuli_Chr06	46390954	TT	GG	GG	INTRON	101508794	uncharacterized LOC101508794
SNP_44387_A_46391031	NC_021165.1	Ca_Kabuli_Chr06	46391031	TT	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44388_A_46391033	NC_021165.1	Ca_Kabuli_Chr06	46391033	GG	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44389_A_46391073	NC_021165.1	Ca_Kabuli_Chr06	46391073	AA	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44390_A_46391202	NC_021165.1	Ca_Kabuli_Chr06	46391202	GG	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44391_A_46391222	NC_021165.1	Ca_Kabuli_Chr06	46391222	CC	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44392_A_46391249	NC_021165.1	Ca_Kabuli_Chr06	46391249	AA	TT	TT	INTRON	101508794	uncharacterized LOC101508794
SNP_44393_A_46391259	NC_021165.1	Ca_Kabuli_Chr06	46391259	TT	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44394_A_46391359	NC_021165.1	Ca_Kabuli_Chr06	46391359	GG	AA	AA	NON_SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44395_A_46391361	NC_021165.1	Ca_Kabuli_Chr06	46391361	TT	CC	CC	SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44396_A_46391429	NC_021165.1	Ca_Kabuli_Chr06	46391429	AA	GG	GG	SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44397_A_46391435	NC_021165.1	Ca_Kabuli_Chr06	46391435	AA	TT	TT	NON_SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44398_A_46391436	NC_021165.1	Ca_Kabuli_Chr06	46391436	TT	CC	CC	SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44399_A_46391483	NC_021165.1	Ca_Kabuli_Chr06	46391483	TT	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44401_A_46391568	NC_021165.1	Ca_Kabuli_Chr06	46391568	AA	GG	GG	INTRON	101508794	uncharacterized LOC101508794
SNP_44402_A_46391573	NC_021165.1	Ca_Kabuli_Chr06	46391573	TT	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44403_A_46391602	NC_021165.1	Ca_Kabuli_Chr06	46391602	AA	GG	GG	INTRON	101508794	uncharacterized LOC101508794
SNP_44404_A_46391638	NC_021165.1	Ca_Kabuli_Chr06	46391638	TT	CC	CC	INTRON	101508794	uncharacterized LOC101508794
SNP_44405_A_46391691	NC_021165.1	Ca_Kabuli_Chr06	46391691	GG	AA	AA	INTRON	101508794	uncharacterized LOC101508794

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44406_A_46391720	NC_021165.1	Ca_Kabuli_Chr06	46391720	TT	AA	AA	INTRON	101508794	uncharacterized LOC101508794
SNP_44407_A_46391852	NC_021165.1	Ca_Kabuli_Chr06	46391852	TT	CC	CC	SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44408_A_46391868	NC_021165.1	Ca_Kabuli_Chr06	46391868	TT	GG	GG	NON_SYNONYMOUS_CODING	101508794	uncharacterized LOC101508794
SNP_44409_A_46399691	NC_021165.1	Ca_Kabuli_Chr06	46399691	TT	CC	CC	INTERGENIC		
SNP_44410_A_46399701	NC_021165.1	Ca_Kabuli_Chr06	46399701	TT	CC	CC	INTERGENIC		
SNP_44411_A_46399725	NC_021165.1	Ca_Kabuli_Chr06	46399725	AA	GG	GG	INTERGENIC		
SNP_44412_A_46399871	NC_021165.1	Ca_Kabuli_Chr06	46399871	AA	GG	GG	INTERGENIC		
SNP_44413_A_46399888	NC_021165.1	Ca_Kabuli_Chr06	46399888	TT	CC	CC	INTERGENIC		
SNP_44414_A_46399925	NC_021165.1	Ca_Kabuli_Chr06	46399925	CC	TT	TT	INTERGENIC		
SNP_44415_A_46399935	NC_021165.1	Ca_Kabuli_Chr06	46399935	GG	AA	AA	INTERGENIC		
SNP_44416_A_46400146	NC_021165.1	Ca_Kabuli_Chr06	46400146	AA	GG	GG	INTERGENIC		
SNP_44417_A_46411241	NC_021165.1	Ca_Kabuli_Chr06	46411241	AA	GG	GG	INTERGENIC		
SNP_44418_A_46449768	NC_021165.1	Ca_Kabuli_Chr06	46449768	CC	TT	TT	INTERGENIC		
SNP_44419_A_46449820	NC_021165.1	Ca_Kabuli_Chr06	46449820	AA	GG	GG	INTERGENIC		
SNP_44420_A_46506768	NC_021165.1	Ca_Kabuli_Chr06	46506768	TT	CC	CC	INTERGENIC		
SNP_44421_A_46506780	NC_021165.1	Ca_Kabuli_Chr06	46506780	AA	GG	GG	INTERGENIC		
SNP_44422_A_46508774	NC_021165.1	Ca_Kabuli_Chr06	46508774	CC	AA	AA	INTERGENIC		
SNP_44423_A_46509056	NC_021165.1	Ca_Kabuli_Chr06	46509056	TT	CC	CC	INTERGENIC		
SNP_44424_A_46509358	NC_021165.1	Ca_Kabuli_Chr06	46509358	GG	AA	AA	INTERGENIC		
SNP_44425_A_46509361	NC_021165.1	Ca_Kabuli_Chr06	46509361	TT	CC	CC	INTERGENIC		
SNP_44426_A_46509362	NC_021165.1	Ca_Kabuli_Chr06	46509362	CC	AA	AA	INTERGENIC		
SNP_44427_A_46509367	NC_021165.1	Ca_Kabuli_Chr06	46509367	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44429_A_46535472	NC_021165.1	Ca_Kabuli_Chr06	46535472	TT	AA	AA	INTERGENIC			
SNP_44430_A_46634589	NC_021165.1	Ca_Kabuli_Chr06	46634589	TT	AA	AA	INTERGENIC			
SNP_44431_A_46634590	NC_021165.1	Ca_Kabuli_Chr06	46634590	TT	CC	CC	INTERGENIC			
SNP_44432_A_46673218	NC_021165.1	Ca_Kabuli_Chr06	46673218	TT	AA	AA	INTERGENIC			
SNP_44433_A_46683969	NC_021165.1	Ca_Kabuli_Chr06	46683969	GG	AA	AA	INTERGENIC			
SNP_44434_A_46689973	NC_021165.1	Ca_Kabuli_Chr06	46689973	CC	TT	TT	INTERGENIC			
SNP_44435_A_46689990	NC_021165.1	Ca_Kabuli_Chr06	46689990	TT	AA	AA	INTERGENIC			
SNP_44436_A_46690048	NC_021165.1	Ca_Kabuli_Chr06	46690048	GG	AA	AA	INTERGENIC			
SNP_44437_A_46690053	NC_021165.1	Ca_Kabuli_Chr06	46690053	CC	GG	GG	INTERGENIC			
SNP_44438_A_46690069	NC_021165.1	Ca_Kabuli_Chr06	46690069	GG	AA	AA	INTERGENIC			
SNP_44439_A_46690086	NC_021165.1	Ca_Kabuli_Chr06	46690086	CC	TT	TT	INTERGENIC			
SNP_44440_A_46690182	NC_021165.1	Ca_Kabuli_Chr06	46690182	AA	GG	GG	INTERGENIC			
SNP_44441_A_46690258	NC_021165.1	Ca_Kabuli_Chr06	46690258	TT	GG	GG	INTERGENIC			
SNP_44442_A_46690333	NC_021165.1	Ca_Kabuli_Chr06	46690333	AA	GG	GG	INTERGENIC			
SNP_44443_A_46690335	NC_021165.1	Ca_Kabuli_Chr06	46690335	AA	GG	GG	INTERGENIC			
SNP_44444_A_46690341	NC_021165.1	Ca_Kabuli_Chr06	46690341	GG	AA	AA	INTERGENIC			
SNP_44445_A_46690353	NC_021165.1	Ca_Kabuli_Chr06	46690353	TT	CC	CC	INTERGENIC			
SNP_44446_A_46690429	NC_021165.1	Ca_Kabuli_Chr06	46690429	TT	CC	CC	INTERGENIC			
SNP_44447_A_46690432	NC_021165.1	Ca_Kabuli_Chr06	46690432	AA	GG	GG	INTERGENIC			
SNP_44448_A_46690449	NC_021165.1	Ca_Kabuli_Chr06	46690449	AA	GG	GG	INTERGENIC			
SNP_44449_A_46690502	NC_021165.1	Ca_Kabuli_Chr06	46690502	TT	CC	CC	INTERGENIC			
SNP_44450_A_46707007	NC_021165.1	Ca_Kabuli_Chr06	46707007	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44451_A_46749110	NC_021165.1	Ca_Kabuli_Chr06	46749110	TT	CC	CC	INTERGENIC			
SNP_44452_A_46772284	NC_021165.1	Ca_Kabuli_Chr06	46772284	GG	AA	AA	INTERGENIC			
SNP_44453_A_46772304	NC_021165.1	Ca_Kabuli_Chr06	46772304	TT	GG	GG	INTERGENIC			
SNP_44454_A_46772308	NC_021165.1	Ca_Kabuli_Chr06	46772308	TT	CC	CC	INTERGENIC			
SNP_44455_A_46772325	NC_021165.1	Ca_Kabuli_Chr06	46772325	TT	GG	GG	INTERGENIC			
SNP_44456_A_46772329	NC_021165.1	Ca_Kabuli_Chr06	46772329	CC	AA	AA	INTERGENIC			
SNP_44457_A_46772333	NC_021165.1	Ca_Kabuli_Chr06	46772333	AA	GG	GG	INTERGENIC			
SNP_44458_A_46772733	NC_021165.1	Ca_Kabuli_Chr06	46772733	TT	GG	GG	INTERGENIC			
SNP_44459_A_46772917	NC_021165.1	Ca_Kabuli_Chr06	46772917	CC	TT	TT	INTERGENIC			
SNP_44461_A_46789806	NC_021165.1	Ca_Kabuli_Chr06	46789806	CC	TT	TT	INTERGENIC			
SNP_44463_A_46817622	NC_021165.1	Ca_Kabuli_Chr06	46817622	CC	AA	AA	INTERGENIC			
SNP_44466_A_46896666	NC_021165.1	Ca_Kabuli_Chr06	46896666	TT	GG	GG	INTERGENIC			
SNP_44467_A_46896889	NC_021165.1	Ca_Kabuli_Chr06	46896889	CC	TT	TT	INTERGENIC			
SNP_44468_A_46896903	NC_021165.1	Ca_Kabuli_Chr06	46896903	CC	TT	TT	INTERGENIC			
SNP_44469_A_46896934	NC_021165.1	Ca_Kabuli_Chr06	46896934	CC	GG	GG	INTERGENIC			
SNP_44470_A_46896938	NC_021165.1	Ca_Kabuli_Chr06	46896938	GG	CC	CC	INTERGENIC			
SNP_44471_A_46897044	NC_021165.1	Ca_Kabuli_Chr06	46897044	CC	GG	GG	INTERGENIC			
SNP_44472_A_46898640	NC_021165.1	Ca_Kabuli_Chr06	46898640	CC	GG	GG	INTERGENIC			
SNP_44473_A_46898828	NC_021165.1	Ca_Kabuli_Chr06	46898828	CC	TT	TT	INTERGENIC			
SNP_44474_A_46899229	NC_021165.1	Ca_Kabuli_Chr06	46899229	GG	AA	AA	INTERGENIC			
SNP_44475_A_46899450	NC_021165.1	Ca_Kabuli_Chr06	46899450	TT	CC	CC	INTERGENIC			
SNP_44476_A_46899454	NC_021165.1	Ca_Kabuli_Chr06	46899454	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44477_A_46899767	NC_021165.1	Ca_Kabuli_Chr06	46899767	AA	GG	GG	INTERGENIC		
SNP_44478_A_46997169	NC_021165.1	Ca_Kabuli_Chr06	46997169	TT	CC	CC	INTERGENIC		
SNP_44479_A_47000936	NC_021165.1	Ca_Kabuli_Chr06	47000936	AA	GG	GG	INTERGENIC		
SNP_44481_A_47001105	NC_021165.1	Ca_Kabuli_Chr06	47001105	TT	CC	CC	INTERGENIC		
SNP_44482_A_47001120	NC_021165.1	Ca_Kabuli_Chr06	47001120	CC	TT	TT	INTERGENIC		
SNP_44483_A_47001167	NC_021165.1	Ca_Kabuli_Chr06	47001167	CC	GG	GG	INTERGENIC		
SNP_44484_A_47002237	NC_021165.1	Ca_Kabuli_Chr06	47002237	CC	TT	TT	INTERGENIC		
SNP_44486_A_47093709	NC_021165.1	Ca_Kabuli_Chr06	47093709	GG	AA	AA	INTRON	101512664	LRR receptor-like serine/threonine-protein kinase FLS2
SNP_44487_A_47148751	NC_021165.1	Ca_Kabuli_Chr06	47148751	AA	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44488_A_47149056	NC_021165.1	Ca_Kabuli_Chr06	47149056	AA	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44489_A_47149086	NC_021165.1	Ca_Kabuli_Chr06	47149086	AA	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44490_A_47149096	NC_021165.1	Ca_Kabuli_Chr06	47149096	AA	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44491_A_47149099	NC_021165.1	Ca_Kabuli_Chr06	47149099	GG	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44493_A_47149161	NC_021165.1	Ca_Kabuli_Chr06	47149161	TT	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44494_A_47149205	NC_021165.1	Ca_Kabuli_Chr06	47149205	CC	AA	AA	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44495_A_47149224	NC_021165.1	Ca_Kabuli_Chr06	47149224	TT	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44496_A_47149237	NC_021165.1	Ca_Kabuli_Chr06	47149237	TT	AA	AA	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44497_A_47151270	NC_021165.1	Ca_Kabuli_Chr06	47151270	AA	CC	CC	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44498_A_47151284	NC_021165.1	Ca_Kabuli_Chr06	47151284	AA	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44499_A_47151331	NC_021165.1	Ca_Kabuli_Chr06	47151331	GG	AA	AA	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44500_A_47151334	NC_021165.1	Ca_Kabuli_Chr06	47151334	AA	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44501_A_47151353	NC_021165.1	Ca_Kabuli_Chr06	47151353	TT	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44502_A_47151595	NC_021165.1	Ca_Kabuli_Chr06	47151595	AA	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44503_A_47151738	NC_021165.1	Ca_Kabuli_Chr06	47151738	AA	GG	GG	INTRON	101503235	vacuolar cation/proton exchanger 3-like
SNP_44504_A_47209713	NC_021165.1	Ca_Kabuli_Chr06	47209713	GG	TT	TT	URR	101512976	serine/threonine-protein phosphatase 7 long form homolog
SNP_44505_A_47209888	NC_021165.1	Ca_Kabuli_Chr06	47209888	TT	CC	CC	URR	101513303	uncharacterized LOC101513303
SNP_44506_A_47209910	NC_021165.1	Ca_Kabuli_Chr06	47209910	TT	GG	GG	URR	101513303	uncharacterized LOC101513303
SNP_44507_A_47209986	NC_021165.1	Ca_Kabuli_Chr06	47209986	CC	TT	TT	URR	101513303	uncharacterized LOC101513303
SNP_44508_A_47210005	NC_021165.1	Ca_Kabuli_Chr06	47210005	CC	TT	TT	URR	101513303	uncharacterized LOC101513303
SNP_44509_A_47210028	NC_021165.1	Ca_Kabuli_Chr06	47210028	AA	GG	GG	URR	101513303	uncharacterized LOC101513303
SNP_44510_A_47258545	NC_021165.1	Ca_Kabuli_Chr06	47258545	CC	AA	AA	DRR	101513627	uncharacterized LOC101513627
SNP_44511_A_47260201	NC_021165.1	Ca_Kabuli_Chr06	47260201	AA	GG	GG	INTRON	101513627	uncharacterized LOC101513627
SNP_44512_A_47260222	NC_021165.1	Ca_Kabuli_Chr06	47260222	GG	AA	AA	NON_SYNONYMOUS_CODING	101513627	uncharacterized LOC101513627
SNP_44513_A_47268177	NC_021165.1	Ca_Kabuli_Chr06	47268177	TT	AA	AA	INTERGENIC		
SNP_44514_A_47268179	NC_021165.1	Ca_Kabuli_Chr06	47268179	AA	CC	CC	INTERGENIC		
SNP_44515_A_47268216	NC_021165.1	Ca_Kabuli_Chr06	47268216	TT	GG	GG	INTERGENIC		
SNP_44516_A_47312017	NC_021165.1	Ca_Kabuli_Chr06	47312017	TT	CC	CC	INTERGENIC		
SNP_44517_A_47312020	NC_021165.1	Ca_Kabuli_Chr06	47312020	AA	GG	GG	INTERGENIC		
SNP_44518_A_47312042	NC_021165.1	Ca_Kabuli_Chr06	47312042	CC	AA	AA	INTERGENIC		
SNP_44519_A_47312267	NC_021165.1	Ca_Kabuli_Chr06	47312267	AA	GG	GG	INTERGENIC		
SNP_44520_A_47312295	NC_021165.1	Ca_Kabuli_Chr06	47312295	TT	CC	CC	INTERGENIC		
SNP_44522_A_47312527	NC_021165.1	Ca_Kabuli_Chr06	47312527	AA	TT	TT	INTERGENIC		
SNP_44523_A_47312562	NC_021165.1	Ca_Kabuli_Chr06	47312562	AA	GG	GG	INTERGENIC		
SNP_44524_A_47312580	NC_021165.1	Ca_Kabuli_Chr06	47312580	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44525_A_47312595	NC_021165.1	Ca_Kabuli_Chr06	47312595	CC	TT	TT	INTERGENIC			
SNP_44526_A_47382727	NC_021165.1	Ca_Kabuli_Chr06	47382727	TT	CC	CC	URR	101506340	symplekin	
SNP_44528_A_47395099	NC_021165.1	Ca_Kabuli_Chr06	47395099	AA	TT	TT	INTERGENIC			
SNP_44529_A_47461283	NC_021165.1	Ca_Kabuli_Chr06	47461283	GG	AA	AA	INTERGENIC			
SNP_44530_A_47504908	NC_021165.1	Ca_Kabuli_Chr06	47504908	CC	TT	TT	INTERGENIC			
SNP_44531_A_47504911	NC_021165.1	Ca_Kabuli_Chr06	47504911	GG	TT	TT	INTERGENIC			
SNP_44532_A_47558546	NC_021165.1	Ca_Kabuli_Chr06	47558546	TT	CC	CC	INTERGENIC			
SNP_44533_A_47563102	NC_021165.1	Ca_Kabuli_Chr06	47563102	AA	TT	TT	INTERGENIC			
SNP_44534_A_47571056	NC_021165.1	Ca_Kabuli_Chr06	47571056	CC	AA	AA	INTERGENIC			
SNP_44535_A_47580946	NC_021165.1	Ca_Kabuli_Chr06	47580946	CC	TT	TT	URR	101507846	trihelix transcription factor GT-3b	
SNP_44536_A_47616872	NC_021165.1	Ca_Kabuli_Chr06	47616872	AA	GG	GG	INTERGENIC			
SNP_44537_A_47621979	NC_021165.1	Ca_Kabuli_Chr06	47621979	GG	AA	AA	INTERGENIC			
SNP_44538_A_47622022	NC_021165.1	Ca_Kabuli_Chr06	47622022	GG	AA	AA	INTERGENIC			
SNP_44539_A_47622244	NC_021165.1	Ca_Kabuli_Chr06	47622244	CC	GG	GG	INTERGENIC			
SNP_44540_A_47622264	NC_021165.1	Ca_Kabuli_Chr06	47622264	AA	GG	GG	INTERGENIC			
SNP_44541_A_47622282	NC_021165.1	Ca_Kabuli_Chr06	47622282	AA	GG	GG	INTERGENIC			
SNP_44542_A_47622384	NC_021165.1	Ca_Kabuli_Chr06	47622384	TT	GG	GG	INTERGENIC			
SNP_44543_A_47634825	NC_021165.1	Ca_Kabuli_Chr06	47634825	TT	CC	CC	INTERGENIC			
SNP_44544_A_47646294	NC_021165.1	Ca_Kabuli_Chr06	47646294	GG	AA	AA	INTERGENIC			
SNP_44545_A_47647483	NC_021165.1	Ca_Kabuli_Chr06	47647483	TT	AA	AA	INTERGENIC			
SNP_44546_A_47657141	NC_021165.1	Ca_Kabuli_Chr06	47657141	GG	TT	TT	INTERGENIC			
SNP_44547_A_47657147	NC_021165.1	Ca_Kabuli_Chr06	47657147	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44548_A_47675696	NC_021165.1	Ca_Kabuli_Chr06	47675696	TT	GG	GG	INTERGENIC			
SNP_44549_A_47675732	NC_021165.1	Ca_Kabuli_Chr06	47675732	TT	CC	CC	INTERGENIC			
SNP_44550_A_47675737	NC_021165.1	Ca_Kabuli_Chr06	47675737	CC	TT	TT	INTERGENIC			
SNP_44551_A_47697851	NC_021165.1	Ca_Kabuli_Chr06	47697851	CC	GG	GG	INTERGENIC			
SNP_44552_A_47697924	NC_021165.1	Ca_Kabuli_Chr06	47697924	AA	CC	CC	INTERGENIC			
SNP_44554_A_47698044	NC_021165.1	Ca_Kabuli_Chr06	47698044	GG	CC	CC	INTERGENIC			
SNP_44555_A_47698052	NC_021165.1	Ca_Kabuli_Chr06	47698052	AA	GG	GG	INTERGENIC			
SNP_44556_A_47698083	NC_021165.1	Ca_Kabuli_Chr06	47698083	AA	CC	CC	INTERGENIC			
SNP_44557_A_47699206	NC_021165.1	Ca_Kabuli_Chr06	47699206	AA	GG	GG	INTERGENIC			
SNP_44558_A_47699545	NC_021165.1	Ca_Kabuli_Chr06	47699545	AA	GG	GG	INTERGENIC			
SNP_44559_A_47699567	NC_021165.1	Ca_Kabuli_Chr06	47699567	TT	AA	AA	INTERGENIC			
SNP_44560_A_47707527	NC_021165.1	Ca_Kabuli_Chr06	47707527	GG	TT	TT	INTERGENIC			
SNP_44561_A_47716666	NC_021165.1	Ca_Kabuli_Chr06	47716666	TT	CC	CC	INTERGENIC			
SNP_44562_A_47716746	NC_021165.1	Ca_Kabuli_Chr06	47716746	GG	AA	AA	INTERGENIC			
SNP_44563_A_47716896	NC_021165.1	Ca_Kabuli_Chr06	47716896	CC	TT	TT	INTERGENIC			
SNP_44564_A_47716924	NC_021165.1	Ca_Kabuli_Chr06	47716924	CC	TT	TT	INTERGENIC			
SNP_44565_A_47717039	NC_021165.1	Ca_Kabuli_Chr06	47717039	CC	GG	GG	INTERGENIC			
SNP_44566_A_47717056	NC_021165.1	Ca_Kabuli_Chr06	47717056	TT	GG	GG	INTERGENIC			
SNP_44567_A_47717190	NC_021165.1	Ca_Kabuli_Chr06	47717190	GG	AA	AA	INTERGENIC			
SNP_44568_A_47722930	NC_021165.1	Ca_Kabuli_Chr06	47722930	AA	GG	GG	INTERGENIC			
SNP_44569_A_47723050	NC_021165.1	Ca_Kabuli_Chr06	47723050	TT	CC	CC	INTERGENIC			
SNP_44570_A_47723065	NC_021165.1	Ca_Kabuli_Chr06	47723065	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44571_A_47723077	NC_021165.1	Ca_Kabuli_Chr06	47723077	TT	AA	AA	INTERGENIC			
SNP_44572_A_47723368	NC_021165.1	Ca_Kabuli_Chr06	47723368	TT	GG	GG	INTERGENIC			
SNP_44573_A_47729525	NC_021165.1	Ca_Kabuli_Chr06	47729525	AA	GG	GG	INTERGENIC			
SNP_44575_A_47753623	NC_021165.1	Ca_Kabuli_Chr06	47753623	TT	CC	CC	INTERGENIC			
SNP_44576_A_47753658	NC_021165.1	Ca_Kabuli_Chr06	47753658	AA	GG	GG	INTERGENIC			
SNP_44577_A_47753728	NC_021165.1	Ca_Kabuli_Chr06	47753728	TT	GG	GG	INTERGENIC			
SNP_44578_A_47754029	NC_021165.1	Ca_Kabuli_Chr06	47754029	CC	TT	TT	INTERGENIC			
SNP_44579_A_47758812	NC_021165.1	Ca_Kabuli_Chr06	47758812	AA	GG	GG	INTERGENIC			
SNP_44580_A_47758837	NC_021165.1	Ca_Kabuli_Chr06	47758837	AA	GG	GG	INTERGENIC			
SNP_44581_A_47758874	NC_021165.1	Ca_Kabuli_Chr06	47758874	AA	GG	GG	INTERGENIC			
SNP_44582_A_47758925	NC_021165.1	Ca_Kabuli_Chr06	47758925	GG	AA	AA	INTERGENIC			
SNP_44583_A_47760741	NC_021165.1	Ca_Kabuli_Chr06	47760741	GG	AA	AA	INTERGENIC			
SNP_44584_A_47761044	NC_021165.1	Ca_Kabuli_Chr06	47761044	CC	GG	GG	INTERGENIC			
SNP_44585_A_47761064	NC_021165.1	Ca_Kabuli_Chr06	47761064	CC	AA	AA	INTERGENIC			
SNP_44586_A_47779071	NC_021165.1	Ca_Kabuli_Chr06	47779071	GG	CC	CC	INTERGENIC			
SNP_44587_A_47779178	NC_021165.1	Ca_Kabuli_Chr06	47779178	TT	GG	GG	INTERGENIC			
SNP_44588_A_47779197	NC_021165.1	Ca_Kabuli_Chr06	47779197	TT	GG	GG	INTERGENIC			
SNP_44589_A_47779290	NC_021165.1	Ca_Kabuli_Chr06	47779290	CC	TT	TT	INTERGENIC			
SNP_44591_A_47830601	NC_021165.1	Ca_Kabuli_Chr06	47830601	GG	AA	AA	INTERGENIC			
SNP_44592_A_47839836	NC_021165.1	Ca_Kabuli_Chr06	47839836	TT	CC	CC	DRR	101488341	RING finger protein 141-like	
SNP_44593_A_47854752	NC_021165.1	Ca_Kabuli_Chr06	47854752	CC	TT	TT	URR	101488897	probable pyridoxal 5-phosphate synthase subunit PDX2	
SNP_44594_A_47865001	NC_021165.1	Ca_Kabuli_Chr06	47865001	AA	CC	CC	INTERGENIC			

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SNP_44595_A_47905387	NC_021165.1	Ca_Kabuli_Chr06	47905387	TT	AA	AA	INTERGENIC			
SNP_44596_A_47906100	NC_021165.1	Ca_Kabuli_Chr06	47906100	AA	GG	GG	INTERGENIC			
SNP_44597_A_47906227	NC_021165.1	Ca_Kabuli_Chr06	47906227	AA	CC	CC	INTERGENIC			
SNP_44598_A_47906243	NC_021165.1	Ca_Kabuli_Chr06	47906243	AA	CC	CC	INTERGENIC			
SNP_44599_A_47906294	NC_021165.1	Ca_Kabuli_Chr06	47906294	AA	TT	TT	INTERGENIC			
SNP_44600_A_47906312	NC_021165.1	Ca_Kabuli_Chr06	47906312	TT	CC	CC	INTERGENIC			
SNP_44601_A_47910514	NC_021165.1	Ca_Kabuli_Chr06	47910514	GG	AA	AA	INTERGENIC			
SNP_44602_A_47910517	NC_021165.1	Ca_Kabuli_Chr06	47910517	CC	TT	TT	INTERGENIC			
SNP_44603_A_47910568	NC_021165.1	Ca_Kabuli_Chr06	47910568	GG	AA	AA	INTERGENIC			
SNP_44604_A_47910631	NC_021165.1	Ca_Kabuli_Chr06	47910631	GG	TT	TT	INTERGENIC			
SNP_44605_A_47910647	NC_021165.1	Ca_Kabuli_Chr06	47910647	AA	GG	GG	INTERGENIC			
SNP_44606_A_47947792	NC_021165.1	Ca_Kabuli_Chr06	47947792	TT	CC	CC	INTERGENIC			
SNP_44607_A_47947816	NC_021165.1	Ca_Kabuli_Chr06	47947816	AA	GG	GG	INTERGENIC			
SNP_44608_A_47947846	NC_021165.1	Ca_Kabuli_Chr06	47947846	TT	CC	CC	INTERGENIC			
SNP_44609_A_47947860	NC_021165.1	Ca_Kabuli_Chr06	47947860	TT	GG	GG	INTERGENIC			
SNP_44610_A_47947866	NC_021165.1	Ca_Kabuli_Chr06	47947866	AA	GG	GG	INTERGENIC			
SNP_44611_A_47947879	NC_021165.1	Ca_Kabuli_Chr06	47947879	CC	TT	TT	INTERGENIC			
SNP_44612_A_47947942	NC_021165.1	Ca_Kabuli_Chr06	47947942	GG	AA	AA	INTERGENIC			
SNP_44613_A_47947951	NC_021165.1	Ca_Kabuli_Chr06	47947951	TT	CC	CC	INTERGENIC			
SNP_44614_A_47947954	NC_021165.1	Ca_Kabuli_Chr06	47947954	TT	GG	GG	INTERGENIC			
SNP_44615_A_47947972	NC_021165.1	Ca_Kabuli_Chr06	47947972	CC	AA	AA	INTERGENIC			
SNP_44616_A_47948278	NC_021165.1	Ca_Kabuli_Chr06	47948278	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44618_A_48036690	NC_021165.1	Ca_Kabuli_Chr06	48036690	TT	CC	CC	DRR		101491912	UPF0481 protein At3g47200-like
SNP_44619_A_48051447	NC_021165.1	Ca_Kabuli_Chr06	48051447	AA	GG	GG	INTERGENIC			
SNP_44620_A_48051454	NC_021165.1	Ca_Kabuli_Chr06	48051454	CC	AA	AA	INTERGENIC			
SNP_44621_A_48053989	NC_021165.1	Ca_Kabuli_Chr06	48053989	GG	AA	AA	DRR		101492245	Unknown function
SNP_44622_A_48053996	NC_021165.1	Ca_Kabuli_Chr06	48053996	TT	CC	CC	DRR		101492245	Unknown function
SNP_44623_A_48063809	NC_021165.1	Ca_Kabuli_Chr06	48063809	TT	CC	CC	INTERGENIC			
SNP_44624_A_48063837	NC_021165.1	Ca_Kabuli_Chr06	48063837	TT	CC	CC	INTERGENIC			
SNP_44625_A_48064128	NC_021165.1	Ca_Kabuli_Chr06	48064128	AA	TT	TT	INTERGENIC			
SNP_44626_A_48064210	NC_021165.1	Ca_Kabuli_Chr06	48064210	TT	CC	CC	INTERGENIC			
SNP_44627_A_48064237	NC_021165.1	Ca_Kabuli_Chr06	48064237	AA	GG	GG	INTERGENIC			
SNP_44628_A_48064253	NC_021165.1	Ca_Kabuli_Chr06	48064253	TT	CC	CC	INTERGENIC			
SNP_44629_A_48109439	NC_021165.1	Ca_Kabuli_Chr06	48109439	TT	CC	CC	URR		101492791	sulfoquinovosyl transferase SQD2
SNP_44630_A_48111349	NC_021165.1	Ca_Kabuli_Chr06	48111349	GG	CC	CC	INTERGENIC			
SNP_44631_A_48216115	NC_021165.1	Ca_Kabuli_Chr06	48216115	AA	GG	GG	INTERGENIC			
SNP_44632_A_48247312	NC_021165.1	Ca_Kabuli_Chr06	48247312	TT	AA	AA	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44633_A_48247437	NC_021165.1	Ca_Kabuli_Chr06	48247437	GG	AA	AA	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44634_A_48253755	NC_021165.1	Ca_Kabuli_Chr06	48253755	CC	TT	TT	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44635_A_48253805	NC_021165.1	Ca_Kabuli_Chr06	48253805	GG	AA	AA	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44636_A_48253885	NC_021165.1	Ca_Kabuli_Chr06	48253885	CC	TT	TT	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44637_A_48253949	NC_021165.1	Ca_Kabuli_Chr06	48253949	GG	AA	AA	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44638_A_48253974	NC_021165.1	Ca_Kabuli_Chr06	48253974	GG	AA	AA	INTRON		101493451	queuine tRNA-ribosyltransferase-like
SNP_44639_A_48254067	NC_021165.1	Ca_Kabuli_Chr06	48254067	GG	CC	CC	INTRON		101493451	queuine tRNA-ribosyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44640_A_48254099	NC_021165.1	Ca_Kabuli_Chr06	48254099	TT	CC	CC	INTRON	101493451	queuine tRNA-ribosyltransferase-like
SNP_44642_A_48261153	NC_021165.1	Ca_Kabuli_Chr06	48261153	TT	GG	GG	INTERGENIC		
SNP_44643_A_48262122	NC_021165.1	Ca_Kabuli_Chr06	48262122	TT	CC	CC	INTERGENIC		
SNP_44644_A_48262155	NC_021165.1	Ca_Kabuli_Chr06	48262155	TT	AA	AA	INTERGENIC		
SNP_44645_A_48262333	NC_021165.1	Ca_Kabuli_Chr06	48262333	TT	CC	CC	INTERGENIC		
SNP_44646_A_48266972	NC_021165.1	Ca_Kabuli_Chr06	48266972	AA	GG	GG	INTERGENIC		
SNP_44647_A_48267213	NC_021165.1	Ca_Kabuli_Chr06	48267213	TT	CC	CC	INTERGENIC		
SNP_44648_A_48269483	NC_021165.1	Ca_Kabuli_Chr06	48269483	AA	TT	TT	INTERGENIC		
SNP_44649_A_48269706	NC_021165.1	Ca_Kabuli_Chr06	48269706	TT	CC	CC	INTERGENIC		
SNP_44650_A_48270262	NC_021165.1	Ca_Kabuli_Chr06	48270262	CC	TT	TT	INTERGENIC		
SNP_44651_A_48270267	NC_021165.1	Ca_Kabuli_Chr06	48270267	GG	AA	AA	INTERGENIC		
SNP_44652_A_48270627	NC_021165.1	Ca_Kabuli_Chr06	48270627	AA	GG	GG	INTERGENIC		
SNP_44653_A_48270752	NC_021165.1	Ca_Kabuli_Chr06	48270752	AA	TT	TT	INTERGENIC		
SNP_44654_A_48270772	NC_021165.1	Ca_Kabuli_Chr06	48270772	AA	GG	GG	INTERGENIC		
SNP_44655_A_48270807	NC_021165.1	Ca_Kabuli_Chr06	48270807	CC	TT	TT	INTERGENIC		
SNP_44656_A_48270839	NC_021165.1	Ca_Kabuli_Chr06	48270839	AA	CC	CC	INTERGENIC		
SNP_44657_A_48270866	NC_021165.1	Ca_Kabuli_Chr06	48270866	AA	GG	GG	INTERGENIC		
SNP_44658_A_48270905	NC_021165.1	Ca_Kabuli_Chr06	48270905	GG	AA	AA	INTERGENIC		
SNP_44659_A_48270940	NC_021165.1	Ca_Kabuli_Chr06	48270940	GG	TT	TT	INTERGENIC		
SNP_44660_A_48270965	NC_021165.1	Ca_Kabuli_Chr06	48270965	AA	GG	GG	INTERGENIC		
SNP_44661_A_48270973	NC_021165.1	Ca_Kabuli_Chr06	48270973	GG	AA	AA	INTERGENIC		
SNP_44662_A_48270977	NC_021165.1	Ca_Kabuli_Chr06	48270977	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44663_A_48271058	NC_021165.1	Ca_Kabuli_Chr06	48271058	TT	CC	CC	INTERGENIC		
SNP_44664_A_48271128	NC_021165.1	Ca_Kabuli_Chr06	48271128	CC	GG	GG	INTERGENIC		
SNP_44665_A_48271129	NC_021165.1	Ca_Kabuli_Chr06	48271129	AA	GG	GG	INTERGENIC		
SNP_44666_A_48271177	NC_021165.1	Ca_Kabuli_Chr06	48271177	CC	TT	TT	INTERGENIC		
SNP_44667_A_48271205	NC_021165.1	Ca_Kabuli_Chr06	48271205	TT	CC	CC	DRR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44669_A_48271522	NC_021165.1	Ca_Kabuli_Chr06	48271522	CC	TT	TT	DRR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44670_A_48271548	NC_021165.1	Ca_Kabuli_Chr06	48271548	GG	AA	AA	DRR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44671_A_48271562	NC_021165.1	Ca_Kabuli_Chr06	48271562	GG	AA	AA	DRR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44674_A_48276041	NC_021165.1	Ca_Kabuli_Chr06	48276041	TT	CC	CC	INTRON	101493773	queuine tRNA-ribosyltransferase-like
SNP_44675_A_48276516	NC_021165.1	Ca_Kabuli_Chr06	48276516	AA	CC	CC	INTRON	101493773	queuine tRNA-ribosyltransferase-like
SNP_44676_A_48276591	NC_021165.1	Ca_Kabuli_Chr06	48276591	TT	CC	CC	INTRON	101493773	queuine tRNA-ribosyltransferase-like
SNP_44677_A_48277375	NC_021165.1	Ca_Kabuli_Chr06	48277375	TT	CC	CC	INTERGENIC		
SNP_44678_A_48277676	NC_021165.1	Ca_Kabuli_Chr06	48277676	GG	AA	AA	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44679_A_48277780	NC_021165.1	Ca_Kabuli_Chr06	48277780	AA	TT	TT	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44680_A_48278273	NC_021165.1	Ca_Kabuli_Chr06	48278273	AA	GG	GG	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44681_A_48278920	NC_021165.1	Ca_Kabuli_Chr06	48278920	GG	TT	TT	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44682_A_48278999	NC_021165.1	Ca_Kabuli_Chr06	48278999	AA	CC	CC	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44683_A_48279066	NC_021165.1	Ca_Kabuli_Chr06	48279066	CC	GG	GG	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44684_A_48279068	NC_021165.1	Ca_Kabuli_Chr06	48279068	GG	TT	TT	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44685_A_48279072	NC_021165.1	Ca_Kabuli_Chr06	48279072	TT	AA	AA	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44686_A_48279076	NC_021165.1	Ca_Kabuli_Chr06	48279076	TT	CC	CC	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44688_A_48279231	NC_021165.1	Ca_Kabuli_Chr06	48279231	TT	CC	CC	URR	101493773	queuine tRNA-ribosyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44689_A_48279240	NC_021165.1	Ca_Kabuli_Chr06	48279240	GG	TT	TT	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44690_A_48279263	NC_021165.1	Ca_Kabuli_Chr06	48279263	CC	GG	GG	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44691_A_48279275	NC_021165.1	Ca_Kabuli_Chr06	48279275	TT	CC	CC	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44692_A_48279283	NC_021165.1	Ca_Kabuli_Chr06	48279283	CC	TT	TT	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44693_A_48279331	NC_021165.1	Ca_Kabuli_Chr06	48279331	TT	GG	GG	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44694_A_48279381	NC_021165.1	Ca_Kabuli_Chr06	48279381	AA	CC	CC	URR	101493773	queuine tRNA-ribosyltransferase-like
SNP_44695_A_48279493	NC_021165.1	Ca_Kabuli_Chr06	48279493	TT	CC	CC	INTERGENIC		
SNP_44696_A_48279555	NC_021165.1	Ca_Kabuli_Chr06	48279555	CC	TT	TT	INTERGENIC		
SNP_44698_A_48279794	NC_021165.1	Ca_Kabuli_Chr06	48279794	TT	CC	CC	INTERGENIC		
SNP_44699_A_48279888	NC_021165.1	Ca_Kabuli_Chr06	48279888	GG	CC	CC	INTERGENIC		
SNP_44700_A_48279935	NC_021165.1	Ca_Kabuli_Chr06	48279935	AA	GG	GG	INTERGENIC		
SNP_44701_A_48279981	NC_021165.1	Ca_Kabuli_Chr06	48279981	GG	AA	AA	INTERGENIC		
SNP_44702_A_48279983	NC_021165.1	Ca_Kabuli_Chr06	48279983	GG	AA	AA	INTERGENIC		
SNP_44703_A_48280047	NC_021165.1	Ca_Kabuli_Chr06	48280047	TT	AA	AA	INTERGENIC		
SNP_44704_A_48280053	NC_021165.1	Ca_Kabuli_Chr06	48280053	AA	TT	TT	INTERGENIC		
SNP_44706_A_48280117	NC_021165.1	Ca_Kabuli_Chr06	48280117	CC	GG	GG	INTERGENIC		
SNP_44707_A_48280165	NC_021165.1	Ca_Kabuli_Chr06	48280165	TT	CC	CC	INTERGENIC		
SNP_44708_A_48280182	NC_021165.1	Ca_Kabuli_Chr06	48280182	CC	AA	AA	INTERGENIC		
SNP_44710_A_48280249	NC_021165.1	Ca_Kabuli_Chr06	48280249	CC	TT	TT	INTERGENIC		
SNP_44712_A_48280329	NC_021165.1	Ca_Kabuli_Chr06	48280329	GG	AA	AA	INTERGENIC		
SNP_44713_A_48280362	NC_021165.1	Ca_Kabuli_Chr06	48280362	GG	AA	AA	INTERGENIC		
SNP_44714_A_48280368	NC_021165.1	Ca_Kabuli_Chr06	48280368	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44715_A_48280373	NC_021165.1	Ca_Kabuli_Chr06	48280373	AA	CC	CC	INTERGENIC			
SNP_44716_A_48280417	NC_021165.1	Ca_Kabuli_Chr06	48280417	AA	GG	GG	INTERGENIC			
SNP_44717_A_48280424	NC_021165.1	Ca_Kabuli_Chr06	48280424	GG	AA	AA	INTERGENIC			
SNP_44718_A_48280445	NC_021165.1	Ca_Kabuli_Chr06	48280445	AA	GG	GG	INTERGENIC			
SNP_44719_A_48280500	NC_021165.1	Ca_Kabuli_Chr06	48280500	GG	AA	AA	INTERGENIC			
SNP_44720_A_48280595	NC_021165.1	Ca_Kabuli_Chr06	48280595	AA	GG	GG	INTERGENIC			
SNP_44721_A_48280597	NC_021165.1	Ca_Kabuli_Chr06	48280597	AA	CC	CC	INTERGENIC			
SNP_44722_A_48280612	NC_021165.1	Ca_Kabuli_Chr06	48280612	AA	GG	GG	INTERGENIC			
SNP_44723_A_48280622	NC_021165.1	Ca_Kabuli_Chr06	48280622	AA	GG	GG	INTERGENIC			
SNP_44724_A_48280713	NC_021165.1	Ca_Kabuli_Chr06	48280713	AA	TT	TT	INTERGENIC			
SNP_44725_A_48280762	NC_021165.1	Ca_Kabuli_Chr06	48280762	AA	TT	TT	INTERGENIC			
SNP_44727_A_48280837	NC_021165.1	Ca_Kabuli_Chr06	48280837	AA	CC	CC	INTERGENIC			
SNP_44728_A_48281097	NC_021165.1	Ca_Kabuli_Chr06	48281097	AA	GG	GG	INTERGENIC			
SNP_44729_A_48281321	NC_021165.1	Ca_Kabuli_Chr06	48281321	GG	AA	AA	INTERGENIC			
SNP_44730_A_48281357	NC_021165.1	Ca_Kabuli_Chr06	48281357	TT	CC	CC	INTERGENIC			
SNP_44731_A_48281359	NC_021165.1	Ca_Kabuli_Chr06	48281359	AA	CC	CC	INTERGENIC			
SNP_44732_A_48281360	NC_021165.1	Ca_Kabuli_Chr06	48281360	TT	AA	AA	INTERGENIC			
SNP_44734_A_48281410	NC_021165.1	Ca_Kabuli_Chr06	48281410	CC	AA	AA	INTERGENIC			
SNP_44736_A_48281665	NC_021165.1	Ca_Kabuli_Chr06	48281665	GG	CC	CC	INTERGENIC			
SNP_44737_A_48281668	NC_021165.1	Ca_Kabuli_Chr06	48281668	CC	AA	AA	INTERGENIC			
SNP_44738_A_48281688	NC_021165.1	Ca_Kabuli_Chr06	48281688	TT	CC	CC	INTERGENIC			
SNP_44739_A_48281893	NC_021165.1	Ca_Kabuli_Chr06	48281893	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44740_A_48281894	NC_021165.1	Ca_Kabuli_Chr06	48281894	AA	GG	GG	INTERGENIC			
SNP_44741_A_48281951	NC_021165.1	Ca_Kabuli_Chr06	48281951	AA	GG	GG	INTERGENIC			
SNP_44742_A_48302337	NC_021165.1	Ca_Kabuli_Chr06	48302337	CC	TT	TT	URR	101494305	transcription factor DIVARICATA-like	
SNP_44743_A_48311730	NC_021165.1	Ca_Kabuli_Chr06	48311730	CC	TT	TT	DRR	101496791	Unknown function	
SNP_44745_A_48361917	NC_021165.1	Ca_Kabuli_Chr06	48361917	AA	GG	GG	INTERGENIC			
SNP_44746_A_48386281	NC_021165.1	Ca_Kabuli_Chr06	48386281	TT	AA	AA	INTRON	101495691	TMV resistance protein N-like	
SNP_44747_A_48699060	NC_021165.1	Ca_Kabuli_Chr06	48699060	CC	TT	TT	URR	101505257	uncharacterized LOC101505257	
SNP_44748_A_48708067	NC_021165.1	Ca_Kabuli_Chr06	48708067	CC	TT	TT	INTERGENIC			
SNP_44749_A_48710281	NC_021165.1	Ca_Kabuli_Chr06	48710281	TT	CC	CC	INTERGENIC			
SNP_44750_A_48710318	NC_021165.1	Ca_Kabuli_Chr06	48710318	AA	GG	GG	INTERGENIC			
SNP_44751_A_48710846	NC_021165.1	Ca_Kabuli_Chr06	48710846	AA	GG	GG	INTERGENIC			
SNP_44752_A_48710903	NC_021165.1	Ca_Kabuli_Chr06	48710903	AA	GG	GG	INTERGENIC			
SNP_44753_A_48710932	NC_021165.1	Ca_Kabuli_Chr06	48710932	CC	TT	TT	INTERGENIC			
SNP_44754_A_48730300	NC_021165.1	Ca_Kabuli_Chr06	48730300	TT	CC	CC	INTERGENIC			
SNP_44755_A_48767867	NC_021165.1	Ca_Kabuli_Chr06	48767867	AA	GG	GG	URR	101497778	gamma-interferon-inducible lysosomal thiol reductase-like	
SNP_44756_A_48769820	NC_021165.1	Ca_Kabuli_Chr06	48769820	CC	TT	TT	INTERGENIC			
SNP_44757_A_48788468	NC_021165.1	Ca_Kabuli_Chr06	48788468	TT	CC	CC	INTERGENIC			
SNP_44758_A_48788552	NC_021165.1	Ca_Kabuli_Chr06	48788552	GG	AA	AA	INTERGENIC			
SNP_44760_A_48788638	NC_021165.1	Ca_Kabuli_Chr06	48788638	AA	GG	GG	INTERGENIC			
SNP_44761_A_48788645	NC_021165.1	Ca_Kabuli_Chr06	48788645	GG	AA	AA	INTERGENIC			
SNP_44762_A_48792599	NC_021165.1	Ca_Kabuli_Chr06	48792599	TT	CC	CC	INTERGENIC			
SNP_44763_A_48826774	NC_021165.1	Ca_Kabuli_Chr06	48826774	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44764_A_48887281	NC_021165.1	Ca_Kabuli_Chr06	48887281	AA	GG	GG	INTERGENIC		
SNP_44766_A_48908184	NC_021165.1	Ca_Kabuli_Chr06	48908184	AA	GG	GG	INTERGENIC		
SNP_44767_A_48908194	NC_021165.1	Ca_Kabuli_Chr06	48908194	GG	AA	AA	INTERGENIC		
SNP_44768_A_48925418	NC_021165.1	Ca_Kabuli_Chr06	48925418	AA	GG	GG	INTERGENIC		
SNP_44769_A_48956060	NC_021165.1	Ca_Kabuli_Chr06	48956060	TT	AA	AA	DRR	101500572	uncharacterized LOC101500572
SNP_44770_A_48962227	NC_021165.1	Ca_Kabuli_Chr06	48962227	GG	TT	TT	INTERGENIC		
SNP_44771_A_48998489	NC_021165.1	Ca_Kabuli_Chr06	48998489	TT	CC	CC	DRR	101501213	uncharacterized LOC101501213
SNP_44772_A_49010747	NC_021165.1	Ca_Kabuli_Chr06	49010747	AA	TT	TT	INTERGENIC		
SNP_44773_A_49016356	NC_021165.1	Ca_Kabuli_Chr06	49016356	TT	CC	CC	STOP_LOST	101507847	uncharacterized LOC101507847
SNP_44774_A_49016395	NC_021165.1	Ca_Kabuli_Chr06	49016395	AA	GG	GG	NON_SYNONYMOUS_CODING	101507847	uncharacterized LOC101507847
SNP_44775_A_49016472	NC_021165.1	Ca_Kabuli_Chr06	49016472	TT	GG	GG	SYNONYMOUS_CODING	101507847	uncharacterized LOC101507847
SNP_44776_A_49016757	NC_021165.1	Ca_Kabuli_Chr06	49016757	AA	GG	GG	SPLICE_SITE_REGION	101507847	uncharacterized LOC101507847
SNP_44777_A_49018444	NC_021165.1	Ca_Kabuli_Chr06	49018444	AA	GG	GG	NON_SYNONYMOUS_CODING	101507847	uncharacterized LOC101507847
SNP_44778_A_49018454	NC_021165.1	Ca_Kabuli_Chr06	49018454	GG	AA	AA	STOP_GAINED	101507847	uncharacterized LOC101507847
SNP_44779_A_49018457	NC_021165.1	Ca_Kabuli_Chr06	49018457	AA	CC	CC	NON_SYNONYMOUS_CODING	101507847	uncharacterized LOC101507847
SNP_44780_A_49022777	NC_021165.1	Ca_Kabuli_Chr06	49022777	AA	TT	TT	INTRON	101507847	uncharacterized LOC101507847
SNP_44781_A_49026331	NC_021165.1	Ca_Kabuli_Chr06	49026331	AA	TT	CC	INTRON	101507847	uncharacterized LOC101507847
SNP_44782_A_49035398	NC_021165.1	Ca_Kabuli_Chr06	49035398	TT	GG	GG	INTERGENIC		
SNP_44783_A_49056513	NC_021165.1	Ca_Kabuli_Chr06	49056513	TT	CC	CC	INTERGENIC		
SNP_44784_A_49058653	NC_021165.1	Ca_Kabuli_Chr06	49058653	AA	GG	GG	INTERGENIC		
SNP_44785_A_49058655	NC_021165.1	Ca_Kabuli_Chr06	49058655	TT	CC	CC	INTERGENIC		
SNP_44786_A_49109327	NC_021165.1	Ca_Kabuli_Chr06	49109327	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44787_A_49110099	NC_021165.1	Ca_Kabuli_Chr06	49110099	TT	GG	GG	INTERGENIC		
SNP_44788_A_49149795	NC_021165.1	Ca_Kabuli_Chr06	49149795	TT	CC	CC	INTERGENIC		
SNP_44789_A_49149813	NC_021165.1	Ca_Kabuli_Chr06	49149813	TT	CC	CC	INTERGENIC		
SNP_44790_A_49149851	NC_021165.1	Ca_Kabuli_Chr06	49149851	CC	TT	TT	INTERGENIC		
SNP_44791_A_49149877	NC_021165.1	Ca_Kabuli_Chr06	49149877	TT	GG	GG	INTERGENIC		
SNP_44792_A_49150200	NC_021165.1	Ca_Kabuli_Chr06	49150200	AA	GG	GG	INTERGENIC		
SNP_44794_A_49218844	NC_021165.1	Ca_Kabuli_Chr06	49218844	TT	GG	GG	NON_SYNONYMOUS_CODING	id149053	Unknown function
SNP_44795_A_49218851	NC_021165.1	Ca_Kabuli_Chr06	49218851	CC	TT	TT	SYNONYMOUS_CODING	id149053	Unknown function
SNP_44796_A_49218854	NC_021165.1	Ca_Kabuli_Chr06	49218854	CC	AA	AA	NON_SYNONYMOUS_CODING	id149053	Unknown function
SNP_44797_A_49218873	NC_021165.1	Ca_Kabuli_Chr06	49218873	CC	GG	GG	NON_SYNONYMOUS_CODING	id149053	Unknown function
SNP_44798_A_49218874	NC_021165.1	Ca_Kabuli_Chr06	49218874	AA	TT	TT	NON_SYNONYMOUS_CODING	id149053	Unknown function
SNP_44800_A_49219163	NC_021165.1	Ca_Kabuli_Chr06	49219163	GG	AA	AA	URR	101504406	uncharacterized LOC101504406
SNP_44801_A_49219299	NC_021165.1	Ca_Kabuli_Chr06	49219299	AA	TT	TT	URR	101504406	uncharacterized LOC101504406
SNP_44802_A_49219300	NC_021165.1	Ca_Kabuli_Chr06	49219300	CC	AA	AA	URR	101504406	uncharacterized LOC101504406
SNP_44803_A_49219423	NC_021165.1	Ca_Kabuli_Chr06	49219423	AA	CC	CC	URR	101504406	uncharacterized LOC101504406
SNP_44804_A_49219430	NC_021165.1	Ca_Kabuli_Chr06	49219430	AA	CC	CC	URR	101504406	uncharacterized LOC101504406
SNP_44805_A_49219557	NC_021165.1	Ca_Kabuli_Chr06	49219557	GG	AA	AA	URR	101504406	uncharacterized LOC101504406
SNP_44806_A_49221067	NC_021165.1	Ca_Kabuli_Chr06	49221067	AA	GG	GG	URR	101504406	uncharacterized LOC101504406
SNP_44807_A_49221075	NC_021165.1	Ca_Kabuli_Chr06	49221075	CC	TT	TT	URR	101504406	uncharacterized LOC101504406
SNP_44808_A_49221814	NC_021165.1	Ca_Kabuli_Chr06	49221814	TT	CC	CC	INTERGENIC		
SNP_44809_A_49222089	NC_021165.1	Ca_Kabuli_Chr06	49222089	AA	TT	TT	INTERGENIC		
SNP_44810_A_49223069	NC_021165.1	Ca_Kabuli_Chr06	49223069	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44811_A_49261919	NC_021165.1	Ca_Kabuli_Chr06	49261919	CC	TT	TT	INTERGENIC			
SNP_44813_A_49262267	NC_021165.1	Ca_Kabuli_Chr06	49262267	TT	CC	CC	INTERGENIC			
SNP_44814_A_49262327	NC_021165.1	Ca_Kabuli_Chr06	49262327	TT	GG	GG	INTERGENIC			
SNP_44815_A_49262359	NC_021165.1	Ca_Kabuli_Chr06	49262359	GG	AA	AA	INTERGENIC			
SNP_44816_A_49302596	NC_021165.1	Ca_Kabuli_Chr06	49302596	GG	AA	AA	INTERGENIC			
SNP_44817_A_49318116	NC_021165.1	Ca_Kabuli_Chr06	49318116	AA	GG	GG	INTERGENIC			
SNP_44818_A_49318258	NC_021165.1	Ca_Kabuli_Chr06	49318258	CC	TT	TT	INTERGENIC			
SNP_44819_A_49318652	NC_021165.1	Ca_Kabuli_Chr06	49318652	GG	AA	AA	INTERGENIC			
SNP_44820_A_49318702	NC_021165.1	Ca_Kabuli_Chr06	49318702	GG	AA	AA	INTERGENIC			
SNP_44821_A_49319205	NC_021165.1	Ca_Kabuli_Chr06	49319205	CC	TT	TT	INTERGENIC			
SNP_44822_A_49323078	NC_021165.1	Ca_Kabuli_Chr06	49323078	AA	GG	GG	INTERGENIC			
SNP_44823_A_49325612	NC_021165.1	Ca_Kabuli_Chr06	49325612	CC	TT	TT	INTERGENIC			
SNP_44824_A_49335756	NC_021165.1	Ca_Kabuli_Chr06	49335756	AA	GG	GG	INTERGENIC			
SNP_44825_A_49438381	NC_021165.1	Ca_Kabuli_Chr06	49438381	AA	GG	GG	INTRON	101510086	Unknown function	
SNP_44826_A_49523109	NC_021165.1	Ca_Kabuli_Chr06	49523109	TT	AA	AA	DRR	101513628	uncharacterized LOC101513628	
SNP_44827_A_49572551	NC_021165.1	Ca_Kabuli_Chr06	49572551	AA	TT	TT	DRR	101515365	probable ATP-dependent RNA helicase DDX11	
SNP_44828_A_49583926	NC_021165.1	Ca_Kabuli_Chr06	49583926	TT	CC	CC	URR	101515365	probable ATP-dependent RNA helicase DDX11	
SNP_44829_A_49628921	NC_021165.1	Ca_Kabuli_Chr06	49628921	TT	CC	CC	INTERGENIC			
SNP_44830_A_49629118	NC_021165.1	Ca_Kabuli_Chr06	49629118	AA	CC	CC	INTERGENIC			
SNP_44831_A_49629599	NC_021165.1	Ca_Kabuli_Chr06	49629599	TT	AA	AA	INTERGENIC			
SNP_44832_A_49629674	NC_021165.1	Ca_Kabuli_Chr06	49629674	AA	GG	GG	INTERGENIC			
SNP_44833_A_49655704	NC_021165.1	Ca_Kabuli_Chr06	49655704	TT	AA	AA	INTRON	101512015	uncharacterized LOC101512015	

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SNP_44834_A_49707175	NC_021165.1	Ca_Kabuli_Chr06	49707175	GG	AA	AA	INTERGENIC			
SNP_44835_A_49727353	NC_021165.1	Ca_Kabuli_Chr06	49727353	GG	CC	CC	INTERGENIC			
SNP_44836_A_49727380	NC_021165.1	Ca_Kabuli_Chr06	49727380	TT	GG	GG	INTERGENIC			
SNP_44837_A_49727392	NC_021165.1	Ca_Kabuli_Chr06	49727392	TT	AA	AA	INTERGENIC			
SNP_44838_A_49727397	NC_021165.1	Ca_Kabuli_Chr06	49727397	GG	AA	AA	INTERGENIC			
SNP_44839_A_49727412	NC_021165.1	Ca_Kabuli_Chr06	49727412	GG	AA	AA	INTERGENIC			
SNP_44840_A_49727427	NC_021165.1	Ca_Kabuli_Chr06	49727427	AA	GG	GG	INTERGENIC			
SNP_44841_A_49727442	NC_021165.1	Ca_Kabuli_Chr06	49727442	TT	CC	CC	INTERGENIC			
SNP_44842_A_49727444	NC_021165.1	Ca_Kabuli_Chr06	49727444	TT	AA	AA	INTERGENIC			
SNP_44843_A_49727445	NC_021165.1	Ca_Kabuli_Chr06	49727445	AA	TT	TT	INTERGENIC			
SNP_44844_A_49727448	NC_021165.1	Ca_Kabuli_Chr06	49727448	AA	GG	GG	INTERGENIC			
SNP_44845_A_49727452	NC_021165.1	Ca_Kabuli_Chr06	49727452	TT	CC	CC	INTERGENIC			
SNP_44846_A_49727460	NC_021165.1	Ca_Kabuli_Chr06	49727460	AA	CC	CC	INTERGENIC			
SNP_44847_A_49727551	NC_021165.1	Ca_Kabuli_Chr06	49727551	TT	CC	CC	INTERGENIC			
SNP_44848_A_49727806	NC_021165.1	Ca_Kabuli_Chr06	49727806	TT	GG	GG	INTERGENIC			
SNP_44849_A_49727809	NC_021165.1	Ca_Kabuli_Chr06	49727809	TT	GG	GG	INTERGENIC			
SNP_44850_A_49727821	NC_021165.1	Ca_Kabuli_Chr06	49727821	AA	GG	GG	INTERGENIC			
SNP_44851_A_49727857	NC_021165.1	Ca_Kabuli_Chr06	49727857	CC	AA	AA	INTERGENIC			
SNP_44852_A_49727913	NC_021165.1	Ca_Kabuli_Chr06	49727913	GG	TT	TT	INTERGENIC			
SNP_44853_A_49727920	NC_021165.1	Ca_Kabuli_Chr06	49727920	AA	TT	TT	INTERGENIC			
SNP_44854_A_49727922	NC_021165.1	Ca_Kabuli_Chr06	49727922	GG	CC	CC	INTERGENIC			
SNP_44855_A_49727928	NC_021165.1	Ca_Kabuli_Chr06	49727928	AA	GG	GG	INTERGENIC			

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SNP_44856_A_49727950	NC_021165.1	Ca_Kabuli_Chr06	49727950	TT	CC	CC	INTERGENIC		
SNP_44857_A_49727962	NC_021165.1	Ca_Kabuli_Chr06	49727962	GG	TT	TT	INTERGENIC		
SNP_44858_A_49727963	NC_021165.1	Ca_Kabuli_Chr06	49727963	GG	TT	TT	INTERGENIC		
SNP_44859_A_49727968	NC_021165.1	Ca_Kabuli_Chr06	49727968	AA	GG	GG	INTERGENIC		
SNP_44860_A_49727979	NC_021165.1	Ca_Kabuli_Chr06	49727979	TT	GG	GG	INTERGENIC		
SNP_44861_A_49728150	NC_021165.1	Ca_Kabuli_Chr06	49728150	AA	GG	GG	INTERGENIC		
SNP_44862_A_49728480	NC_021165.1	Ca_Kabuli_Chr06	49728480	CC	TT	TT	INTERGENIC		
SNP_44863_A_49728496	NC_021165.1	Ca_Kabuli_Chr06	49728496	GG	AA	AA	INTERGENIC		
SNP_44865_A_49767972	NC_021165.1	Ca_Kabuli_Chr06	49767972	GG	TT	TT	INTERGENIC		
SNP_44866_A_49790163	NC_021165.1	Ca_Kabuli_Chr06	49790163	GG	AA	AA	DRR	101514944	uncharacterized LOC101514944
SNP_44867_A_49807769	NC_021165.1	Ca_Kabuli_Chr06	49807769	GG	TT	TT	INTERGENIC		
SNP_44868_A_49848847	NC_021165.1	Ca_Kabuli_Chr06	49848847	TT	AA	AA	URR	101491162	heat shock 70 kDa protein 15-like
SNP_44869_A_49891321	NC_021165.1	Ca_Kabuli_Chr06	49891321	TT	CC	CC	INTERGENIC		
SNP_44870_A_49894459	NC_021165.1	Ca_Kabuli_Chr06	49894459	CC	TT	TT	INTERGENIC		
SNP_44871_A_49954030	NC_021165.1	Ca_Kabuli_Chr06	49954030	AA	GG	GG	INTRON	101488343	putative pentatricopeptide repeat-containing protein At3g47840
SNP_44872_A_50052991	NC_021165.1	Ca_Kabuli_Chr06	50052991	TT	CC	CC	INTERGENIC		
SNP_44873_A_50133863	NC_021165.1	Ca_Kabuli_Chr06	50133863	GG	TT	TT	INTERGENIC		
SNP_44874_A_50145929	NC_021165.1	Ca_Kabuli_Chr06	50145929	CC	TT	TT	INTRON	101489332	uncharacterized LOC101489332
SNP_44875_A_50147276	NC_021165.1	Ca_Kabuli_Chr06	50147276	CC	AA	AA	INTRON	101489332	uncharacterized LOC101489332
SNP_44876_A_50148683	NC_021165.1	Ca_Kabuli_Chr06	50148683	AA	GG	GG	INTRON	101489332	uncharacterized LOC101489332
SNP_44877_A_50148692	NC_021165.1	Ca_Kabuli_Chr06	50148692	TT	CC	CC	INTRON	101489332	uncharacterized LOC101489332
SNP_44878_A_50148698	NC_021165.1	Ca_Kabuli_Chr06	50148698	AA	GG	GG	INTRON	101489332	uncharacterized LOC101489332

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44879_A_50162493	NC_021165.1	Ca_Kabuli_Chr06	50162493	TT	AA	AA	INTERGENIC		
SNP_44880_A_50162501	NC_021165.1	Ca_Kabuli_Chr06	50162501	CC	TT	TT	INTERGENIC		
SNP_44881_A_50162804	NC_021165.1	Ca_Kabuli_Chr06	50162804	AA	TT	TT	INTERGENIC		
SNP_44882_A_50162878	NC_021165.1	Ca_Kabuli_Chr06	50162878	GG	AA	AA	INTERGENIC		
SNP_44883_A_50162918	NC_021165.1	Ca_Kabuli_Chr06	50162918	CC	TT	TT	INTERGENIC		
SNP_44884_A_50162981	NC_021165.1	Ca_Kabuli_Chr06	50162981	TT	CC	CC	INTERGENIC		
SNP_44885_A_50185148	NC_021165.1	Ca_Kabuli_Chr06	50185148	TT	GG	GG	INTERGENIC		
SNP_44886_A_50185229	NC_021165.1	Ca_Kabuli_Chr06	50185229	AA	TT	TT	INTERGENIC		
SNP_44887_A_50191944	NC_021165.1	Ca_Kabuli_Chr06	50191944	AA	GG	GG	INTERGENIC		
SNP_44888_A_50191990	NC_021165.1	Ca_Kabuli_Chr06	50191990	TT	CC	CC	INTERGENIC		
SNP_44889_A_50237642	NC_021165.1	Ca_Kabuli_Chr06	50237642	TT	CC	CC	INTERGENIC		
SNP_44890_A_50244197	NC_021165.1	Ca_Kabuli_Chr06	50244197	AA	GG	GG	INTERGENIC		
SNP_44891_A_50295739	NC_021165.1	Ca_Kabuli_Chr06	50295739	GG	AA	AA	INTERGENIC		
SNP_44892_A_50300829	NC_021165.1	Ca_Kabuli_Chr06	50300829	GG	AA	AA	INTERGENIC		
SNP_44893_A_50300836	NC_021165.1	Ca_Kabuli_Chr06	50300836	GG	AA	AA	INTERGENIC		
SNP_44894_A_50300877	NC_021165.1	Ca_Kabuli_Chr06	50300877	AA	GG	GG	INTERGENIC		
SNP_44895_A_50301166	NC_021165.1	Ca_Kabuli_Chr06	50301166	TT	CC	CC	INTERGENIC		
SNP_44896_A_50301173	NC_021165.1	Ca_Kabuli_Chr06	50301173	GG	AA	AA	INTERGENIC		
SNP_44897_A_50301382	NC_021165.1	Ca_Kabuli_Chr06	50301382	GG	AA	AA	INTERGENIC		
SNP_44898_A_50301410	NC_021165.1	Ca_Kabuli_Chr06	50301410	TT	AA	AA	INTERGENIC		
SNP_44899_A_50348386	NC_021165.1	Ca_Kabuli_Chr06	50348386	CC	AA	AA	INTERGENIC		
SNP_44900_A_50407468	NC_021165.1	Ca_Kabuli_Chr06	50407468	GG	AA	AA	INTRON	id149665	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44901_A_50491997	NC_021165.1	Ca_Kabuli_Chr06	50491997	GG	AA	AA	INTERGENIC			
SNP_44902_A_50681175	NC_021165.1	Ca_Kabuli_Chr06	50681175	AA	TT	TT	INTERGENIC			
SNP_44903_A_50681179	NC_021165.1	Ca_Kabuli_Chr06	50681179	AA	TT	TT	INTERGENIC			
SNP_44904_A_50760995	NC_021165.1	Ca_Kabuli_Chr06	50760995	GG	AA	AA	INTERGENIC			
SNP_44905_A_50788096	NC_021165.1	Ca_Kabuli_Chr06	50788096	AA	TT	TT	INTERGENIC			
SNP_44906_A_50792765	NC_021165.1	Ca_Kabuli_Chr06	50792765	CC	GG	GG	INTRON	101509115	two-component response regulator ARR10-like	
SNP_44907_A_50796883	NC_021165.1	Ca_Kabuli_Chr06	50796883	TT	CC	CC	INTERGENIC			
SNP_44908_A_50797048	NC_021165.1	Ca_Kabuli_Chr06	50797048	AA	GG	GG	INTERGENIC			
SNP_44909_A_50797051	NC_021165.1	Ca_Kabuli_Chr06	50797051	TT	GG	GG	INTERGENIC			
SNP_44910_A_50797117	NC_021165.1	Ca_Kabuli_Chr06	50797117	CC	TT	TT	INTERGENIC			
SNP_44911_A_50797170	NC_021165.1	Ca_Kabuli_Chr06	50797170	CC	TT	TT	INTERGENIC			
SNP_44912_A_50797176	NC_021165.1	Ca_Kabuli_Chr06	50797176	TT	CC	CC	INTERGENIC			
SNP_44913_A_50797191	NC_021165.1	Ca_Kabuli_Chr06	50797191	TT	GG	GG	INTERGENIC			
SNP_44914_A_50797326	NC_021165.1	Ca_Kabuli_Chr06	50797326	GG	AA	AA	INTERGENIC			
SNP_44915_A_50797365	NC_021165.1	Ca_Kabuli_Chr06	50797365	AA	GG	GG	INTERGENIC			
SNP_44916_A_50797480	NC_021165.1	Ca_Kabuli_Chr06	50797480	GG	AA	AA	INTERGENIC			
SNP_44917_A_50797481	NC_021165.1	Ca_Kabuli_Chr06	50797481	GG	AA	AA	INTERGENIC			
SNP_44918_A_50797504	NC_021165.1	Ca_Kabuli_Chr06	50797504	TT	AA	AA	INTERGENIC			
SNP_44919_A_50797525	NC_021165.1	Ca_Kabuli_Chr06	50797525	GG	AA	AA	INTERGENIC			
SNP_44920_A_50797531	NC_021165.1	Ca_Kabuli_Chr06	50797531	CC	GG	GG	INTERGENIC			
SNP_44921_A_50797536	NC_021165.1	Ca_Kabuli_Chr06	50797536	CC	AA	AA	INTERGENIC			
SNP_44922_A_50797616	NC_021165.1	Ca_Kabuli_Chr06	50797616	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44923_A_50797674	NC_021165.1	Ca_Kabuli_Chr06	50797674	CC	AA	AA	INTERGENIC			
SNP_44924_A_50797872	NC_021165.1	Ca_Kabuli_Chr06	50797872	TT	CC	CC	INTERGENIC			
SNP_44925_A_50797873	NC_021165.1	Ca_Kabuli_Chr06	50797873	GG	TT	TT	INTERGENIC			
SNP_44926_A_50797903	NC_021165.1	Ca_Kabuli_Chr06	50797903	TT	AA	AA	INTERGENIC			
SNP_44927_A_50797991	NC_021165.1	Ca_Kabuli_Chr06	50797991	TT	AA	AA	INTERGENIC			
SNP_44928_A_50798090	NC_021165.1	Ca_Kabuli_Chr06	50798090	GG	CC	CC	INTERGENIC			
SNP_44929_A_50798119	NC_021165.1	Ca_Kabuli_Chr06	50798119	CC	TT	TT	INTERGENIC			
SNP_44930_A_50798158	NC_021165.1	Ca_Kabuli_Chr06	50798158	CC	AA	AA	INTERGENIC			
SNP_44931_A_50798168	NC_021165.1	Ca_Kabuli_Chr06	50798168	AA	GG	GG	INTERGENIC			
SNP_44932_A_50798253	NC_021165.1	Ca_Kabuli_Chr06	50798253	TT	CC	CC	INTERGENIC			
SNP_44933_A_50798260	NC_021165.1	Ca_Kabuli_Chr06	50798260	AA	GG	GG	INTERGENIC			
SNP_44934_A_50798261	NC_021165.1	Ca_Kabuli_Chr06	50798261	AA	GG	GG	INTERGENIC			
SNP_44935_A_50798364	NC_021165.1	Ca_Kabuli_Chr06	50798364	CC	TT	TT	INTERGENIC			
SNP_44936_A_50798668	NC_021165.1	Ca_Kabuli_Chr06	50798668	CC	GG	GG	INTERGENIC			
SNP_44937_A_50798723	NC_021165.1	Ca_Kabuli_Chr06	50798723	GG	TT	TT	INTERGENIC			
SNP_44938_A_50799625	NC_021165.1	Ca_Kabuli_Chr06	50799625	AA	TT	TT	INTERGENIC			
SNP_44939_A_50799645	NC_021165.1	Ca_Kabuli_Chr06	50799645	CC	AA	AA	INTERGENIC			
SNP_44940_A_50799822	NC_021165.1	Ca_Kabuli_Chr06	50799822	GG	AA	AA	INTERGENIC			
SNP_44941_A_50818104	NC_021165.1	Ca_Kabuli_Chr06	50818104	AA	GG	GG	INTERGENIC			
SNP_44943_A_50829342	NC_021165.1	Ca_Kabuli_Chr06	50829342	AA	TT	TT	INTERGENIC			
SNP_44944_A_50829351	NC_021165.1	Ca_Kabuli_Chr06	50829351	TT	AA	AA	INTERGENIC			
SNP_44945_A_50830553	NC_021165.1	Ca_Kabuli_Chr06	50830553	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_44946_A_50861513	NC_021165.1	Ca_Kabuli_Chr06	50861513	AA	TT	TT	INTERGENIC		
SNP_44947_A_50875450	NC_021165.1	Ca_Kabuli_Chr06	50875450	CC	TT	TT	INTERGENIC		
SNP_44948_A_50933846	NC_021165.1	Ca_Kabuli_Chr06	50933846	CC	TT	TT	INTERGENIC		
SNP_44949_A_50966865	NC_021165.1	Ca_Kabuli_Chr06	50966865	CC	AA	AA	INTERGENIC		
SNP_44950_A_50975920	NC_021165.1	Ca_Kabuli_Chr06	50975920	GG	CC	CC	DRR	101502904	uncharacterized LOC101502904
SNP_44951_A_50977086	NC_021165.1	Ca_Kabuli_Chr06	50977086	CC	TT	TT	URR	101502587	Unknown function
SNP_44952_A_50977168	NC_021165.1	Ca_Kabuli_Chr06	50977168	TT	AA	AA	URR	101502587	Unknown function
SNP_44953_A_50977340	NC_021165.1	Ca_Kabuli_Chr06	50977340	CC	TT	TT	URR	101502587	Unknown function
SNP_44954_A_50977467	NC_021165.1	Ca_Kabuli_Chr06	50977467	AA	GG	GG	URR	101502587	Unknown function
SNP_44955_A_50977580	NC_021165.1	Ca_Kabuli_Chr06	50977580	GG	TT	TT	URR	101502587	Unknown function
SNP_44957_A_51027782	NC_021165.1	Ca_Kabuli_Chr06	51027782	AA	GG	GG	SYNONYMOUS_CODING	101504199	uncharacterized LOC101504199
SNP_44958_A_51073823	NC_021165.1	Ca_Kabuli_Chr06	51073823	TT	CC	CC	INTERGENIC		
SNP_44959_A_51075513	NC_021165.1	Ca_Kabuli_Chr06	51075513	GG	CC	CC	INTERGENIC		
SNP_44960_A_51219779	NC_021165.1	Ca_Kabuli_Chr06	51219779	AA	GG	GG	INTERGENIC		
SNP_44961_A_51220334	NC_021165.1	Ca_Kabuli_Chr06	51220334	AA	GG	GG	INTERGENIC		
SNP_44962_A_51256721	NC_021165.1	Ca_Kabuli_Chr06	51256721	CC	TT	TT	INTERGENIC		
SNP_44963_A_51299469	NC_021165.1	Ca_Kabuli_Chr06	51299469	GG	CC	CC	URR	101497648	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_44965_A_51350136	NC_021165.1	Ca_Kabuli_Chr06	51350136	AA	TT	TT	INTERGENIC		
SNP_44966_A_51394432	NC_021165.1	Ca_Kabuli_Chr06	51394432	AA	CC	CC	INTRON	101499517	2-methoxy-6-polyprenyl-1,4-benzoquinol methylase, mitochondrial
SNP_44967_A_51398852	NC_021165.1	Ca_Kabuli_Chr06	51398852	GG	AA	AA	DRR	101499815	F-box/LRR-repeat protein 20-like
SNP_44968_A_51411309	NC_021165.1	Ca_Kabuli_Chr06	51411309	AA	TT	TT	INTERGENIC		
SNP_44969_A_51420081	NC_021165.1	Ca_Kabuli_Chr06	51420081	GG	AA	AA	NON_SYNONYMOUS_CODING	101500368	topless-related protein 1-like

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SNP_44971_A_51444381	NC_021165.1	Ca_Kabuli_Chr06	51444381	AA	GG	GG	INTERGENIC		
SNP_44973_A_51444434	NC_021165.1	Ca_Kabuli_Chr06	51444434	AA	GG	GG	INTERGENIC		
SNP_44974_A_51473493	NC_021165.1	Ca_Kabuli_Chr06	51473493	AA	CC	CC	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44975_A_51473495	NC_021165.1	Ca_Kabuli_Chr06	51473495	AA	TT	TT	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44977_A_51482593	NC_021165.1	Ca_Kabuli_Chr06	51482593	CC	TT	TT	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44978_A_51504461	NC_021165.1	Ca_Kabuli_Chr06	51504461	TT	CC	CC	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44979_A_51504559	NC_021165.1	Ca_Kabuli_Chr06	51504559	CC	TT	TT	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44980_A_51504970	NC_021165.1	Ca_Kabuli_Chr06	51504970	AA	TT	TT	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44981_A_51506743	NC_021165.1	Ca_Kabuli_Chr06	51506743	CC	AA	AA	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44982_A_51506777	NC_021165.1	Ca_Kabuli_Chr06	51506777	TT	AA	AA	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44983_A_51506858	NC_021165.1	Ca_Kabuli_Chr06	51506858	AA	GG	GG	INTRON	101506124	mediator of RNA polymerase II transcription subunit 15a-like
SNP_44984_A_51521917	NC_021165.1	Ca_Kabuli_Chr06	51521917	AA	TT	TT	INTERGENIC		
SNP_44985_A_51537111	NC_021165.1	Ca_Kabuli_Chr06	51537111	GG	AA	AA	INTERGENIC		
SNP_44986_A_51617449	NC_021165.1	Ca_Kabuli_Chr06	51617449	TT	CC	CC	INTERGENIC		
SNP_44987_A_51620145	NC_021165.1	Ca_Kabuli_Chr06	51620145	CC	AA	AA	DRR	101507116	uncharacterized LOC101507116
SNP_44988_A_51649690	NC_021165.1	Ca_Kabuli_Chr06	51649690	TT	GG	GG	INTERGENIC		
SNP_44989_A_51672042	NC_021165.1	Ca_Kabuli_Chr06	51672042	CC	TT	TT	INTERGENIC		
SNP_44990_A_51672074	NC_021165.1	Ca_Kabuli_Chr06	51672074	AA	CC	CC	INTERGENIC		
SNP_44992_A_51672951	NC_021165.1	Ca_Kabuli_Chr06	51672951	CC	AA	AA	INTERGENIC		
SNP_44993_A_51675181	NC_021165.1	Ca_Kabuli_Chr06	51675181	TT	CC	CC	INTERGENIC		
SNP_44994_A_51675231	NC_021165.1	Ca_Kabuli_Chr06	51675231	CC	TT	TT	INTERGENIC		
SNP_44995_A_51675262	NC_021165.1	Ca_Kabuli_Chr06	51675262	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_44996_A_51675264	NC_021165.1	Ca_Kabuli_Chr06	51675264	GG	AA	AA	INTERGENIC			
SNP_44997_A_51675466	NC_021165.1	Ca_Kabuli_Chr06	51675466	CC	GG	GG	INTERGENIC			
SNP_44998_A_51675476	NC_021165.1	Ca_Kabuli_Chr06	51675476	CC	TT	TT	INTERGENIC			
SNP_45000_A_51675562	NC_021165.1	Ca_Kabuli_Chr06	51675562	TT	CC	CC	INTERGENIC			
SNP_45001_A_51675577	NC_021165.1	Ca_Kabuli_Chr06	51675577	GG	AA	AA	INTERGENIC			
SNP_45002_A_51675595	NC_021165.1	Ca_Kabuli_Chr06	51675595	AA	GG	GG	INTERGENIC			
SNP_45003_A_51678031	NC_021165.1	Ca_Kabuli_Chr06	51678031	TT	CC	CC	INTERGENIC			
SNP_45004_A_51685183	NC_021165.1	Ca_Kabuli_Chr06	51685183	TT	AA	AA	URR	101508067		probable CCR4-associated factor 1 homolog 11
SNP_45005_A_51725386	NC_021165.1	Ca_Kabuli_Chr06	51725386	CC	TT	TT	INTRON	101508693		glucan endo-1,3-beta-glucosidase-like
SNP_45006_A_51725706	NC_021165.1	Ca_Kabuli_Chr06	51725706	TT	CC	CC	INTRON	101508693		glucan endo-1,3-beta-glucosidase-like
SNP_45007_A_51767671	NC_021165.1	Ca_Kabuli_Chr06	51767671	CC	TT	TT	INTERGENIC			
SNP_45008_A_51767889	NC_021165.1	Ca_Kabuli_Chr06	51767889	AA	GG	GG	INTERGENIC			
SNP_45009_A_51767902	NC_021165.1	Ca_Kabuli_Chr06	51767902	AA	CC	CC	INTERGENIC			
SNP_45010_A_51768028	NC_021165.1	Ca_Kabuli_Chr06	51768028	GG	AA	AA	INTERGENIC			
SNP_45011_A_51768069	NC_021165.1	Ca_Kabuli_Chr06	51768069	TT	GG	GG	INTERGENIC			
SNP_45012_A_51770292	NC_021165.1	Ca_Kabuli_Chr06	51770292	CC	TT	TT	INTERGENIC			
SNP_45013_A_51770311	NC_021165.1	Ca_Kabuli_Chr06	51770311	TT	CC	CC	INTERGENIC			
SNP_45014_A_51770358	NC_021165.1	Ca_Kabuli_Chr06	51770358	AA	CC	CC	INTERGENIC			
SNP_45015_A_51770385	NC_021165.1	Ca_Kabuli_Chr06	51770385	CC	TT	TT	INTERGENIC			
SNP_45016_A_51771391	NC_021165.1	Ca_Kabuli_Chr06	51771391	CC	TT	TT	INTERGENIC			
SNP_45018_A_51771534	NC_021165.1	Ca_Kabuli_Chr06	51771534	AA	CC	CC	INTERGENIC			
SNP_45019_A_51771762	NC_021165.1	Ca_Kabuli_Chr06	51771762	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45020_A_51772820	NC_021165.1	Ca_Kabuli_Chr06	51772820	AA	GG	GG	INTERGENIC		
SNP_45021_A_51772898	NC_021165.1	Ca_Kabuli_Chr06	51772898	AA	TT	TT	INTERGENIC		
SNP_45022_A_51773107	NC_021165.1	Ca_Kabuli_Chr06	51773107	TT	CC	CC	INTERGENIC		
SNP_45023_A_51773194	NC_021165.1	Ca_Kabuli_Chr06	51773194	AA	GG	GG	INTERGENIC		
SNP_45024_A_51775941	NC_021165.1	Ca_Kabuli_Chr06	51775941	TT	CC	CC	INTERGENIC		
SNP_45025_A_51776063	NC_021165.1	Ca_Kabuli_Chr06	51776063	AA	TT	TT	INTERGENIC		
SNP_45027_A_51806370	NC_021165.1	Ca_Kabuli_Chr06	51806370	AA	TT	TT	INTRON	101509650	Unknown function
SNP_45029_A_51829013	NC_021165.1	Ca_Kabuli_Chr06	51829013	AA	GG	GG	INTERGENIC		
SNP_45030_A_51829299	NC_021165.1	Ca_Kabuli_Chr06	51829299	CC	TT	TT	INTERGENIC		
SNP_45031_A_51829305	NC_021165.1	Ca_Kabuli_Chr06	51829305	AA	GG	GG	INTERGENIC		
SNP_45032_A_51829343	NC_021165.1	Ca_Kabuli_Chr06	51829343	TT	CC	CC	INTERGENIC		
SNP_45033_A_51830284	NC_021165.1	Ca_Kabuli_Chr06	51830284	CC	AA	AA	INTERGENIC		
SNP_45034_A_51830304	NC_021165.1	Ca_Kabuli_Chr06	51830304	AA	GG	GG	INTERGENIC		
SNP_45035_A_51831173	NC_021165.1	Ca_Kabuli_Chr06	51831173	AA	GG	GG	INTERGENIC		
SNP_45036_A_51831190	NC_021165.1	Ca_Kabuli_Chr06	51831190	GG	AA	AA	INTERGENIC		
SNP_45037_A_51885965	NC_021165.1	Ca_Kabuli_Chr06	51885965	TT	CC	CC	INTERGENIC		
SNP_45038_A_51914203	NC_021165.1	Ca_Kabuli_Chr06	51914203	CC	AA	AA	INTERGENIC		
SNP_45039_A_51923293	NC_021165.1	Ca_Kabuli_Chr06	51923293	TT	CC	CC	INTERGENIC		
SNP_45041_A_51959521	NC_021165.1	Ca_Kabuli_Chr06	51959521	CC	AA	AA	INTERGENIC		
SNP_45042_A_51959746	NC_021165.1	Ca_Kabuli_Chr06	51959746	AA	GG	GG	INTERGENIC		
SNP_45043_A_51959760	NC_021165.1	Ca_Kabuli_Chr06	51959760	TT	CC	CC	INTERGENIC		
SNP_45044_A_51983287	NC_021165.1	Ca_Kabuli_Chr06	51983287	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45045_A_52003768	NC_021165.1	Ca_Kabuli_Chr06	52003768	TT	AA	AA	INTERGENIC		
SNP_45047_A_52075027	NC_021165.1	Ca_Kabuli_Chr06	52075027	TT	AA	AA	URR	101506125	serine/threonine-protein phosphatase 7 long form homolog
SNP_45048_A_52075034	NC_021165.1	Ca_Kabuli_Chr06	52075034	TT	GG	GG	URR	101506125	serine/threonine-protein phosphatase 7 long form homolog
SNP_45050_A_52075165	NC_021165.1	Ca_Kabuli_Chr06	52075165	TT	CC	CC	URR	101506125	serine/threonine-protein phosphatase 7 long form homolog
SNP_45051_A_52086792	NC_021165.1	Ca_Kabuli_Chr06	52086792	GG	AA	AA	INTERGENIC		
SNP_45052_A_52086819	NC_021165.1	Ca_Kabuli_Chr06	52086819	CC	AA	AA	INTERGENIC		
SNP_45053_A_52087910	NC_021165.1	Ca_Kabuli_Chr06	52087910	CC	GG	GG	START_GAINED	101491067	ribonuclease S-7-like
SNP_45054_A_52088095	NC_021165.1	Ca_Kabuli_Chr06	52088095	GG	CC	CC	INTRON	101491067	ribonuclease S-7-like
SNP_45055_A_52088185	NC_021165.1	Ca_Kabuli_Chr06	52088185	AA	CC	CC	INTRON	101491067	ribonuclease S-7-like
SNP_45056_A_52088350	NC_021165.1	Ca_Kabuli_Chr06	52088350	TT	CC	CC	INTRON	101491067	ribonuclease S-7-like
SNP_45057_A_52088388	NC_021165.1	Ca_Kabuli_Chr06	52088388	AA	TT	TT	INTRON	101491067	ribonuclease S-7-like
SNP_45058_A_52088720	NC_021165.1	Ca_Kabuli_Chr06	52088720	TT	GG	GG	INTRON	101491067	ribonuclease S-7-like
SNP_45059_A_52088832	NC_021165.1	Ca_Kabuli_Chr06	52088832	AA	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45060_A_52088834	NC_021165.1	Ca_Kabuli_Chr06	52088834	CC	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45061_A_52088933	NC_021165.1	Ca_Kabuli_Chr06	52088933	GG	TT	TT	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45062_A_52088934	NC_021165.1	Ca_Kabuli_Chr06	52088934	GG	TT	TT	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45063_A_52088939	NC_021165.1	Ca_Kabuli_Chr06	52088939	AA	CC	CC	SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45064_A_52088940	NC_021165.1	Ca_Kabuli_Chr06	52088940	GG	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45065_A_52088943	NC_021165.1	Ca_Kabuli_Chr06	52088943	GG	CC	CC	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45066_A_52088948	NC_021165.1	Ca_Kabuli_Chr06	52088948	TT	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45067_A_52088949	NC_021165.1	Ca_Kabuli_Chr06	52088949	TT	GG	GG	STOP_GAINED	101491067	ribonuclease S-7-like
SNP_45068_A_52088952	NC_021165.1	Ca_Kabuli_Chr06	52088952	AA	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45069_A_52089955	NC_021165.1	Ca_Kabuli_Chr06	52089955	GG	CC	CC	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45070_A_52089071	NC_021165.1	Ca_Kabuli_Chr06	52089071	TT	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45071_A_52089097	NC_021165.1	Ca_Kabuli_Chr06	52089097	CC	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45072_A_52089098	NC_021165.1	Ca_Kabuli_Chr06	52089098	AA	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45073_A_52089100	NC_021165.1	Ca_Kabuli_Chr06	52089100	AA	CC	CC	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45074_A_52089109	NC_021165.1	Ca_Kabuli_Chr06	52089109	GG	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45075_A_52089111	NC_021165.1	Ca_Kabuli_Chr06	52089111	TT	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45076_A_52089152	NC_021165.1	Ca_Kabuli_Chr06	52089152	TT	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45077_A_52089273	NC_021165.1	Ca_Kabuli_Chr06	52089273	AA	CC	CC	SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45078_A_52089316	NC_021165.1	Ca_Kabuli_Chr06	52089316	AA	GG	GG	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45079_A_52089339	NC_021165.1	Ca_Kabuli_Chr06	52089339	CC	GG	GG	SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45080_A_52089344	NC_021165.1	Ca_Kabuli_Chr06	52089344	CC	TT	TT	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45081_A_52089428	NC_021165.1	Ca_Kabuli_Chr06	52089428	GG	AA	AA	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45082_A_52089448	NC_021165.1	Ca_Kabuli_Chr06	52089448	TT	CC	CC	NON_SYNONYMOUS_CODING	101491067	ribonuclease S-7-like
SNP_45083_A_52089474	NC_021165.1	Ca_Kabuli_Chr06	52089474	GG	TT	TT	DRR	101491067	ribonuclease S-7-like
SNP_45084_A_52089605	NC_021165.1	Ca_Kabuli_Chr06	52089605	AA	TT	TT	URR	101491067	ribonuclease S-7-like
SNP_45085_A_52089619	NC_021165.1	Ca_Kabuli_Chr06	52089619	TT	AA	AA	URR	101491067	ribonuclease S-7-like
SNP_45086_A_52089647	NC_021165.1	Ca_Kabuli_Chr06	52089647	AA	TT	TT	URR	101491067	ribonuclease S-7-like
SNP_45087_A_52089653	NC_021165.1	Ca_Kabuli_Chr06	52089653	AA	GG	GG	URR	101491067	ribonuclease S-7-like
SNP_45088_A_52089711	NC_021165.1	Ca_Kabuli_Chr06	52089711	TT	CC	CC	URR	101491067	ribonuclease S-7-like
SNP_45089_A_52089739	NC_021165.1	Ca_Kabuli_Chr06	52089739	CC	TT	TT	URR	101491067	ribonuclease S-7-like
SNP_45090_A_52089757	NC_021165.1	Ca_Kabuli_Chr06	52089757	TT	AA	AA	URR	101491067	ribonuclease S-7-like

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SNP_45092_A_52107516	NC_021165.1	Ca_Kabuli_Chr06	52107516	GG	CC	CC	INTERGENIC		
SNP_45093_A_52124742	NC_021165.1	Ca_Kabuli_Chr06	52124742	CC	TT	TT	INTERGENIC		
SNP_45094_A_52124760	NC_021165.1	Ca_Kabuli_Chr06	52124760	GG	AA	AA	INTERGENIC		
SNP_45095_A_52124783	NC_021165.1	Ca_Kabuli_Chr06	52124783	TT	GG	GG	INTERGENIC		
SNP_45096_A_52124940	NC_021165.1	Ca_Kabuli_Chr06	52124940	GG	TT	TT	INTERGENIC		
SNP_45097_A_52125066	NC_021165.1	Ca_Kabuli_Chr06	52125066	GG	AA	AA	INTERGENIC		
SNP_45098_A_52125120	NC_021165.1	Ca_Kabuli_Chr06	52125120	GG	AA	AA	INTERGENIC		
SNP_45099_A_52125392	NC_021165.1	Ca_Kabuli_Chr06	52125392	TT	CC	CC	INTERGENIC		
SNP_45100_A_52125614	NC_021165.1	Ca_Kabuli_Chr06	52125614	CC	TT	TT	INTERGENIC		
SNP_45101_A_52126344	NC_021165.1	Ca_Kabuli_Chr06	52126344	TT	CC	CC	INTERGENIC		
SNP_45102_A_52126667	NC_021165.1	Ca_Kabuli_Chr06	52126667	TT	GG	GG	INTERGENIC		
SNP_45103_A_52138762	NC_021165.1	Ca_Kabuli_Chr06	52138762	AA	GG	GG	INTERGENIC		
SNP_45104_A_52163932	NC_021165.1	Ca_Kabuli_Chr06	52163932	CC	GG	GG	INTRON	101492347	calcium-transporting ATPase 9, plasma membrane-type
SNP_45105_A_52243506	NC_021165.1	Ca_Kabuli_Chr06	52243506	GG	AA	AA	INTERGENIC		
SNP_45106_A_52251192	NC_021165.1	Ca_Kabuli_Chr06	52251192	AA	CC	CC	INTERGENIC		
SNP_45107_A_52251202	NC_021165.1	Ca_Kabuli_Chr06	52251202	AA	GG	GG	INTERGENIC		
SNP_45108_A_52251296	NC_021165.1	Ca_Kabuli_Chr06	52251296	GG	AA	AA	INTERGENIC		
SNP_45109_A_52259747	NC_021165.1	Ca_Kabuli_Chr06	52259747	AA	GG	GG	INTRON	101495264	xylosyltransferase 1-like
SNP_45110_A_52267676	NC_021165.1	Ca_Kabuli_Chr06	52267676	AA	GG	GG	INTERGENIC		
SNP_45111_A_52267711	NC_021165.1	Ca_Kabuli_Chr06	52267711	TT	CC	CC	INTERGENIC		
SNP_45112_A_52267790	NC_021165.1	Ca_Kabuli_Chr06	52267790	AA	GG	GG	INTERGENIC		
SNP_45113_A_52268005	NC_021165.1	Ca_Kabuli_Chr06	52268005	AA	TT	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45114_A_52268099	NC_021165.1	Ca_Kabuli_Chr06	52268099	AA	GG	GG	INTERGENIC		
SNP_45115_A_52290301	NC_021165.1	Ca_Kabuli_Chr06	52290301	AA	TT	TT	URR	101496243	kelch repeat-containing protein At3g27220
SNP_45116_A_52290303	NC_021165.1	Ca_Kabuli_Chr06	52290303	CC	TT	TT	URR	101496243	kelch repeat-containing protein At3g27220
SNP_45117_A_52321837	NC_021165.1	Ca_Kabuli_Chr06	52321837	GG	AA	AA	INTERGENIC		
SNP_45118_A_52349739	NC_021165.1	Ca_Kabuli_Chr06	52349739	TT	GG	GG	INTRON	101497985	uncharacterized LOC101497985
SNP_45119_A_52412045	NC_021165.1	Ca_Kabuli_Chr06	52412045	TT	CC	CC	INTERGENIC		
SNP_45121_A_52486155	NC_021165.1	Ca_Kabuli_Chr06	52486155	AA	GG	GG	INTERGENIC		
SNP_45122_A_52486171	NC_021165.1	Ca_Kabuli_Chr06	52486171	TT	CC	CC	INTERGENIC		
SNP_45123_A_52486236	NC_021165.1	Ca_Kabuli_Chr06	52486236	CC	TT	TT	INTERGENIC		
SNP_45124_A_52486284	NC_021165.1	Ca_Kabuli_Chr06	52486284	AA	GG	GG	INTERGENIC		
SNP_45125_A_52486300	NC_021165.1	Ca_Kabuli_Chr06	52486300	TT	CC	CC	INTERGENIC		
SNP_45126_A_52486358	NC_021165.1	Ca_Kabuli_Chr06	52486358	TT	CC	CC	INTERGENIC		
SNP_45127_A_52486378	NC_021165.1	Ca_Kabuli_Chr06	52486378	GG	TT	TT	INTERGENIC		
SNP_45130_A_52517671	NC_021165.1	Ca_Kabuli_Chr06	52517671	AA	CC	CC	INTERGENIC		
SNP_45131_A_52517676	NC_021165.1	Ca_Kabuli_Chr06	52517676	TT	CC	CC	INTERGENIC		
SNP_45134_A_52529805	NC_021165.1	Ca_Kabuli_Chr06	52529805	AA	GG	GG	INTERGENIC		
SNP_45135_A_52530007	NC_021165.1	Ca_Kabuli_Chr06	52530007	AA	GG	GG	INTERGENIC		
SNP_45136_A_52532294	NC_021165.1	Ca_Kabuli_Chr06	52532294	GG	AA	AA	INTERGENIC		
SNP_45137_A_52532309	NC_021165.1	Ca_Kabuli_Chr06	52532309	TT	CC	CC	INTERGENIC		
SNP_45138_A_52532315	NC_021165.1	Ca_Kabuli_Chr06	52532315	CC	TT	TT	INTERGENIC		
SNP_45139_A_52532330	NC_021165.1	Ca_Kabuli_Chr06	52532330	CC	TT	TT	INTERGENIC		
SNP_45140_A_52532340	NC_021165.1	Ca_Kabuli_Chr06	52532340	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45141_A_52537063	NC_021165.1	Ca_Kabuli_Chr06	52537063	GG	CC	CC	INTERGENIC		
SNP_45142_A_52552823	NC_021165.1	Ca_Kabuli_Chr06	52552823	AA	TT	CC	INTERGENIC		
SNP_45143_A_52570579	NC_021165.1	Ca_Kabuli_Chr06	52570579	AA	GG	GG	INTRON	101502383	shikimate O-hydroxycinnamoyltransferase-like
SNP_45146_A_52696832	NC_021165.1	Ca_Kabuli_Chr06	52696832	GG	CC	CC	DRR	101508068	Unknown function
SNP_45147_A_52696838	NC_021165.1	Ca_Kabuli_Chr06	52696838	TT	CC	CC	DRR	101508068	Unknown function
SNP_45148_A_52697071	NC_021165.1	Ca_Kabuli_Chr06	52697071	AA	GG	GG	DRR	101508068	Unknown function
SNP_45149_A_52697144	NC_021165.1	Ca_Kabuli_Chr06	52697144	AA	GG	GG	STOP_LOST	101508068	Unknown function
SNP_45150_A_52702688	NC_021165.1	Ca_Kabuli_Chr06	52702688	AA	GG	GG	INTRON	101508068	Unknown function
SNP_45151_A_52703012	NC_021165.1	Ca_Kabuli_Chr06	52703012	TT	CC	CC	INTRON	101508068	Unknown function
SNP_45152_A_52703130	NC_021165.1	Ca_Kabuli_Chr06	52703130	TT	CC	CC	INTRON	101508068	Unknown function
SNP_45153_A_52726478	NC_021165.1	Ca_Kabuli_Chr06	52726478	AA	CC	CC	INTERGENIC		
SNP_45154_A_52759011	NC_021165.1	Ca_Kabuli_Chr06	52759011	GG	AA	AA	INTERGENIC		
SNP_45155_A_52759013	NC_021165.1	Ca_Kabuli_Chr06	52759013	CC	TT	TT	INTERGENIC		
SNP_45156_A_52762526	NC_021165.1	Ca_Kabuli_Chr06	52762526	AA	GG	GG	INTERGENIC		
SNP_45157_A_52787838	NC_021165.1	Ca_Kabuli_Chr06	52787838	GG	CC	CC	INTERGENIC		
SNP_45159_A_52839232	NC_021165.1	Ca_Kabuli_Chr06	52839232	AA	CC	CC	INTERGENIC		
SNP_45160_A_52841606	NC_021165.1	Ca_Kabuli_Chr06	52841606	CC	AA	AA	INTERGENIC		
SNP_45161_A_52841810	NC_021165.1	Ca_Kabuli_Chr06	52841810	CC	AA	AA	INTERGENIC		
SNP_45163_A_52849183	NC_021165.1	Ca_Kabuli_Chr06	52849183	TT	CC	CC	INTERGENIC		
SNP_45166_A_52854185	NC_021165.1	Ca_Kabuli_Chr06	52854185	GG	AA	AA	INTRON	101488344	probable fucosyltransferase 7
SNP_45167_A_52854317	NC_021165.1	Ca_Kabuli_Chr06	52854317	AA	GG	GG	INTRON	101488344	probable fucosyltransferase 7
SNP_45168_A_52854599	NC_021165.1	Ca_Kabuli_Chr06	52854599	TT	GG	GG	INTRON	101488344	probable fucosyltransferase 7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45169_A_52855604	NC_021165.1	Ca_Kabuli_Chr06	52855604	TT	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45170_A_52855684	NC_021165.1	Ca_Kabuli_Chr06	52855684	GG	AA	AA	INTRON		101488344	probable fucosyltransferase 7
SNP_45171_A_52855852	NC_021165.1	Ca_Kabuli_Chr06	52855852	TT	AA	AA	INTRON		101488344	probable fucosyltransferase 7
SNP_45172_A_52855949	NC_021165.1	Ca_Kabuli_Chr06	52855949	TT	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45173_A_52856034	NC_021165.1	Ca_Kabuli_Chr06	52856034	GG	TT	TT	INTRON		101488344	probable fucosyltransferase 7
SNP_45174_A_52856048	NC_021165.1	Ca_Kabuli_Chr06	52856048	GG	AA	AA	INTRON		101488344	probable fucosyltransferase 7
SNP_45175_A_52857929	NC_021165.1	Ca_Kabuli_Chr06	52857929	TT	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45176_A_52858012	NC_021165.1	Ca_Kabuli_Chr06	52858012	CC	TT	TT	INTRON		101488344	probable fucosyltransferase 7
SNP_45177_A_52858159	NC_021165.1	Ca_Kabuli_Chr06	52858159	AA	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45178_A_52858224	NC_021165.1	Ca_Kabuli_Chr06	52858224	CC	TT	TT	INTRON		101488344	probable fucosyltransferase 7
SNP_45179_A_52858227	NC_021165.1	Ca_Kabuli_Chr06	52858227	AA	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45180_A_52858229	NC_021165.1	Ca_Kabuli_Chr06	52858229	AA	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45181_A_52858256	NC_021165.1	Ca_Kabuli_Chr06	52858256	TT	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45182_A_52858263	NC_021165.1	Ca_Kabuli_Chr06	52858263	TT	AA	AA	INTRON		101488344	probable fucosyltransferase 7
SNP_45183_A_52858359	NC_021165.1	Ca_Kabuli_Chr06	52858359	AA	GG	GG	INTRON		101488344	probable fucosyltransferase 7
SNP_45184_A_52858687	NC_021165.1	Ca_Kabuli_Chr06	52858687	AA	GG	GG	INTRON		101488344	probable fucosyltransferase 7
SNP_45185_A_52858706	NC_021165.1	Ca_Kabuli_Chr06	52858706	CC	TT	TT	INTRON		101488344	probable fucosyltransferase 7
SNP_45186_A_52858987	NC_021165.1	Ca_Kabuli_Chr06	52858987	TT	CC	CC	INTRON		101488344	probable fucosyltransferase 7
SNP_45188_A_52862751	NC_021165.1	Ca_Kabuli_Chr06	52862751	GG	TT	TT	NON_SYNONYMOUS_CODING		101488344	probable fucosyltransferase 7
SNP_45189_A_52863062	NC_021165.1	Ca_Kabuli_Chr06	52863062	AA	TT	TT	URR		101488344	probable fucosyltransferase 7
SNP_45190_A_52863083	NC_021165.1	Ca_Kabuli_Chr06	52863083	TT	CC	CC	URR		101488344	probable fucosyltransferase 7
SNP_45191_A_52863208	NC_021165.1	Ca_Kabuli_Chr06	52863208	TT	CC	CC	URR		101488344	probable fucosyltransferase 7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45192_A_52863253	NC_021165.1	Ca_Kabuli_Chr06	52863253	TT	GG	GG	URR	101488344	probable fucosyltransferase 7
SNP_45193_A_52868927	NC_021165.1	Ca_Kabuli_Chr06	52868927	TT	AA	AA	INTERGENIC		
SNP_45194_A_52868948	NC_021165.1	Ca_Kabuli_Chr06	52868948	AA	TT	TT	INTERGENIC		
SNP_45195_A_52868968	NC_021165.1	Ca_Kabuli_Chr06	52868968	GG	AA	AA	INTERGENIC		
SNP_45196_A_52868997	NC_021165.1	Ca_Kabuli_Chr06	52868997	AA	CC	CC	INTERGENIC		
SNP_45197_A_52869002	NC_021165.1	Ca_Kabuli_Chr06	52869002	TT	AA	AA	INTERGENIC		
SNP_45198_A_52869190	NC_021165.1	Ca_Kabuli_Chr06	52869190	CC	TT	TT	INTERGENIC		
SNP_45199_A_52869229	NC_021165.1	Ca_Kabuli_Chr06	52869229	AA	CC	CC	INTERGENIC		
SNP_45200_A_52869305	NC_021165.1	Ca_Kabuli_Chr06	52869305	CC	AA	AA	INTERGENIC		
SNP_45201_A_52869414	NC_021165.1	Ca_Kabuli_Chr06	52869414	CC	AA	AA	INTERGENIC		
SNP_45202_A_52869658	NC_021165.1	Ca_Kabuli_Chr06	52869658	CC	TT	TT	INTERGENIC		
SNP_45203_A_52869672	NC_021165.1	Ca_Kabuli_Chr06	52869672	GG	TT	TT	INTERGENIC		
SNP_45204_A_52869685	NC_021165.1	Ca_Kabuli_Chr06	52869685	TT	CC	CC	INTERGENIC		
SNP_45205_A_52874445	NC_021165.1	Ca_Kabuli_Chr06	52874445	AA	GG	GG	INTERGENIC		
SNP_45206_A_52874448	NC_021165.1	Ca_Kabuli_Chr06	52874448	TT	CC	CC	INTERGENIC		
SNP_45207_A_52879695	NC_021165.1	Ca_Kabuli_Chr06	52879695	AA	CC	CC	INTERGENIC		
SNP_45208_A_52885576	NC_021165.1	Ca_Kabuli_Chr06	52885576	TT	AA	AA	INTERGENIC		
SNP_45209_A_52885657	NC_021165.1	Ca_Kabuli_Chr06	52885657	AA	GG	GG	INTERGENIC		
SNP_45210_A_52885916	NC_021165.1	Ca_Kabuli_Chr06	52885916	TT	GG	GG	INTERGENIC		
SNP_45211_A_52888060	NC_021165.1	Ca_Kabuli_Chr06	52888060	TT	CC	CC	INTERGENIC		
SNP_45212_A_52889842	NC_021165.1	Ca_Kabuli_Chr06	52889842	CC	GG	GG	INTERGENIC		
SNP_45214_A_52889942	NC_021165.1	Ca_Kabuli_Chr06	52889942	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45215_A_52890010	NC_021165.1	Ca_Kabuli_Chr06	52890010	TT	AA	AA	INTERGENIC			
SNP_45216_A_52890054	NC_021165.1	Ca_Kabuli_Chr06	52890054	TT	CC	CC	INTERGENIC			
SNP_45218_A_52893122	NC_021165.1	Ca_Kabuli_Chr06	52893122	AA	CC	CC	INTERGENIC			
SNP_45219_A_52895926	NC_021165.1	Ca_Kabuli_Chr06	52895926	TT	CC	CC	INTERGENIC			
SNP_45220_A_52919347	NC_021165.1	Ca_Kabuli_Chr06	52919347	CC	TT	TT	INTERGENIC			
SNP_45221_A_52933791	NC_021165.1	Ca_Kabuli_Chr06	52933791	GG	TT	TT	INTERGENIC			
SNP_45222_A_52934152	NC_021165.1	Ca_Kabuli_Chr06	52934152	GG	AA	AA	INTERGENIC			
SNP_45223_A_52934159	NC_021165.1	Ca_Kabuli_Chr06	52934159	GG	AA	AA	INTERGENIC			
SNP_45224_A_52958944	NC_021165.1	Ca_Kabuli_Chr06	52958944	AA	CC	CC	INTERGENIC			
SNP_45225_A_52960877	NC_021165.1	Ca_Kabuli_Chr06	52960877	GG	TT	TT	INTERGENIC			
SNP_45226_A_52960879	NC_021165.1	Ca_Kabuli_Chr06	52960879	AA	GG	GG	INTERGENIC			
SNP_45227_A_53002424	NC_021165.1	Ca_Kabuli_Chr06	53002424	GG	AA	AA	INTERGENIC			
SNP_45228_A_53005538	NC_021165.1	Ca_Kabuli_Chr06	53005538	GG	TT	TT	INTERGENIC			
SNP_45229_A_53010148	NC_021165.1	Ca_Kabuli_Chr06	53010148	AA	GG	GG	INTERGENIC			
SNP_45230_A_53010332	NC_021165.1	Ca_Kabuli_Chr06	53010332	TT	CC	CC	INTERGENIC			
SNP_45231_A_53010335	NC_021165.1	Ca_Kabuli_Chr06	53010335	GG	AA	AA	INTERGENIC			
SNP_45232_A_53010450	NC_021165.1	Ca_Kabuli_Chr06	53010450	GG	AA	AA	INTERGENIC			
SNP_45233_A_53010526	NC_021165.1	Ca_Kabuli_Chr06	53010526	AA	TT	TT	INTERGENIC			
SNP_45234_A_53010541	NC_021165.1	Ca_Kabuli_Chr06	53010541	CC	AA	AA	INTERGENIC			
SNP_45235_A_53011073	NC_021165.1	Ca_Kabuli_Chr06	53011073	CC	TT	TT	INTERGENIC			
SNP_45236_A_53030785	NC_021165.1	Ca_Kabuli_Chr06	53030785	AA	GG	GG	INTERGENIC			
SNP_45237_A_53039308	NC_021165.1	Ca_Kabuli_Chr06	53039308	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45238_A_53045372	NC_021165.1	Ca_Kabuli_Chr06	53045372	CC	TT	TT	INTERGENIC		
SNP_45239_A_53045374	NC_021165.1	Ca_Kabuli_Chr06	53045374	CC	GG	GG	INTERGENIC		
SNP_45240_A_53045382	NC_021165.1	Ca_Kabuli_Chr06	53045382	TT	GG	GG	INTERGENIC		
SNP_45241_A_53045397	NC_021165.1	Ca_Kabuli_Chr06	53045397	TT	CC	CC	INTERGENIC		
SNP_45242_A_53057676	NC_021165.1	Ca_Kabuli_Chr06	53057676	AA	GG	GG	SYNONYMOUS_CODING	101489010	probable fucosyltransferase 7
SNP_45243_A_53057829	NC_021165.1	Ca_Kabuli_Chr06	53057829	GG	AA	AA	SYNONYMOUS_CODING	101489010	probable fucosyltransferase 7
SNP_45244_A_53057913	NC_021165.1	Ca_Kabuli_Chr06	53057913	TT	CC	CC	SYNONYMOUS_CODING	101489010	probable fucosyltransferase 7
SNP_45245_A_53057951	NC_021165.1	Ca_Kabuli_Chr06	53057951	TT	CC	CC	URR	101489010	probable fucosyltransferase 7
SNP_45246_A_53057972	NC_021165.1	Ca_Kabuli_Chr06	53057972	AA	GG	GG	URR	101489010	probable fucosyltransferase 7
SNP_45247_A_53057973	NC_021165.1	Ca_Kabuli_Chr06	53057973	GG	AA	AA	URR	101489010	probable fucosyltransferase 7
SNP_45248_A_53058040	NC_021165.1	Ca_Kabuli_Chr06	53058040	GG	CC	CC	URR	101489010	probable fucosyltransferase 7
SNP_45249_A_53058053	NC_021165.1	Ca_Kabuli_Chr06	53058053	CC	AA	AA	URR	101489010	probable fucosyltransferase 7
SNP_45250_A_53058085	NC_021165.1	Ca_Kabuli_Chr06	53058085	GG	TT	TT	URR	101489010	probable fucosyltransferase 7
SNP_45251_A_53058096	NC_021165.1	Ca_Kabuli_Chr06	53058096	AA	GG	GG	URR	101489010	probable fucosyltransferase 7
SNP_45252_A_53072481	NC_021165.1	Ca_Kabuli_Chr06	53072481	TT	CC	CC	INTERGENIC		
SNP_45253_A_53072991	NC_021165.1	Ca_Kabuli_Chr06	53072991	TT	CC	CC	INTERGENIC		
SNP_45254_A_53072995	NC_021165.1	Ca_Kabuli_Chr06	53072995	CC	TT	TT	INTERGENIC		
SNP_45255_A_53099277	NC_021165.1	Ca_Kabuli_Chr06	53099277	AA	TT	TT	URR	101509116	putative cyclic nucleotide-gated ion channel 8
SNP_45256_A_53177612	NC_021165.1	Ca_Kabuli_Chr06	53177612	GG	TT	TT	INTERGENIC		
SNP_45257_A_53177614	NC_021165.1	Ca_Kabuli_Chr06	53177614	AA	TT	TT	INTERGENIC		
SNP_45258_A_53191536	NC_021165.1	Ca_Kabuli_Chr06	53191536	GG	TT	TT	URR	101513204	V-type proton ATPase subunit D
SNP_45259_A_53214840	NC_021165.1	Ca_Kabuli_Chr06	53214840	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45260_A_53303257	NC_021165.1	Ca_Kabuli_Chr06	53303257	GG	AA	AA	INTRON	101515041	aquaporin NIP6-1-like
SNP_45261_A_53304750	NC_021165.1	Ca_Kabuli_Chr06	53304750	CC	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45262_A_53304760	NC_021165.1	Ca_Kabuli_Chr06	53304760	TT	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45263_A_53304761	NC_021165.1	Ca_Kabuli_Chr06	53304761	CC	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45264_A_53304803	NC_021165.1	Ca_Kabuli_Chr06	53304803	AA	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45265_A_53304830	NC_021165.1	Ca_Kabuli_Chr06	53304830	GG	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45266_A_53304900	NC_021165.1	Ca_Kabuli_Chr06	53304900	CC	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45267_A_53304910	NC_021165.1	Ca_Kabuli_Chr06	53304910	GG	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45268_A_53304942	NC_021165.1	Ca_Kabuli_Chr06	53304942	TT	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45269_A_53304969	NC_021165.1	Ca_Kabuli_Chr06	53304969	TT	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45270_A_53305040	NC_021165.1	Ca_Kabuli_Chr06	53305040	AA	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45271_A_53305059	NC_021165.1	Ca_Kabuli_Chr06	53305059	GG	AA	AA	INTRON	101515041	aquaporin NIP6-1-like
SNP_45272_A_53305064	NC_021165.1	Ca_Kabuli_Chr06	53305064	CC	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45273_A_53305083	NC_021165.1	Ca_Kabuli_Chr06	53305083	TT	AA	AA	INTRON	101515041	aquaporin NIP6-1-like
SNP_45274_A_53305092	NC_021165.1	Ca_Kabuli_Chr06	53305092	AA	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45275_A_53305120	NC_021165.1	Ca_Kabuli_Chr06	53305120	GG	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45276_A_53305256	NC_021165.1	Ca_Kabuli_Chr06	53305256	GG	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45277_A_53305293	NC_021165.1	Ca_Kabuli_Chr06	53305293	TT	CC	CC	INTRON	101515041	aquaporin NIP6-1-like
SNP_45278_A_53305304	NC_021165.1	Ca_Kabuli_Chr06	53305304	GG	AA	AA	INTRON	101515041	aquaporin NIP6-1-like
SNP_45280_A_53305581	NC_021165.1	Ca_Kabuli_Chr06	53305581	CC	TT	TT	INTRON	101515041	aquaporin NIP6-1-like
SNP_45281_A_53309094	NC_021165.1	Ca_Kabuli_Chr06	53309094	AA	TT	TT	URR	101515041	aquaporin NIP6-1-like
SNP_45282_A_53310289	NC_021165.1	Ca_Kabuli_Chr06	53310289	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45283_A_53310315	NC_021165.1	Ca_Kabuli_Chr06	53310315	AA	TT	TT	INTERGENIC		
SNP_45284_A_53310392	NC_021165.1	Ca_Kabuli_Chr06	53310392	GG	AA	AA	INTERGENIC		
SNP_45285_A_53310411	NC_021165.1	Ca_Kabuli_Chr06	53310411	CC	GG	GG	INTERGENIC		
SNP_45286_A_53310491	NC_021165.1	Ca_Kabuli_Chr06	53310491	GG	AA	AA	INTERGENIC		
SNP_45287_A_53310648	NC_021165.1	Ca_Kabuli_Chr06	53310648	TT	GG	GG	INTERGENIC		
SNP_45288_A_53311167	NC_021165.1	Ca_Kabuli_Chr06	53311167	GG	AA	AA	INTERGENIC		
SNP_45289_A_53311208	NC_021165.1	Ca_Kabuli_Chr06	53311208	AA	TT	TT	INTERGENIC		
SNP_45291_A_53312050	NC_021165.1	Ca_Kabuli_Chr06	53312050	GG	AA	AA	DRR	101490321	Unknown function
SNP_45292_A_53312174	NC_021165.1	Ca_Kabuli_Chr06	53312174	GG	CC	CC	DRR	101490321	Unknown function
SNP_45294_A_53312388	NC_021165.1	Ca_Kabuli_Chr06	53312388	TT	CC	CC	DRR	101490321	Unknown function
SNP_45295_A_53312435	NC_021165.1	Ca_Kabuli_Chr06	53312435	GG	CC	CC	DRR	101490321	Unknown function
SNP_45296_A_53312476	NC_021165.1	Ca_Kabuli_Chr06	53312476	TT	AA	AA	DRR	101490321	Unknown function
SNP_45297_A_53312547	NC_021165.1	Ca_Kabuli_Chr06	53312547	AA	CC	CC	DRR	101490321	Unknown function
SNP_45298_A_53312551	NC_021165.1	Ca_Kabuli_Chr06	53312551	TT	AA	AA	DRR	101490321	Unknown function
SNP_45299_A_53312614	NC_021165.1	Ca_Kabuli_Chr06	53312614	AA	CC	CC	DRR	101490321	Unknown function
SNP_45300_A_53312841	NC_021165.1	Ca_Kabuli_Chr06	53312841	CC	AA	AA	DRR	101490321	Unknown function
SNP_45301_A_53312868	NC_021165.1	Ca_Kabuli_Chr06	53312868	TT	AA	AA	DRR	101490321	Unknown function
SNP_45302_A_53312908	NC_021165.1	Ca_Kabuli_Chr06	53312908	GG	AA	AA	DRR	101490321	Unknown function
SNP_45303_A_53312951	NC_021165.1	Ca_Kabuli_Chr06	53312951	CC	GG	GG	INTERGENIC		
SNP_45304_A_53312994	NC_021165.1	Ca_Kabuli_Chr06	53312994	GG	CC	CC	INTERGENIC		
SNP_45305_A_53313124	NC_021165.1	Ca_Kabuli_Chr06	53313124	TT	CC	CC	SYNONYMOUS_CODING	101490321	Unknown function
SNP_45306_A_53313174	NC_021165.1	Ca_Kabuli_Chr06	53313174	TT	AA	AA	INTRON	101490321	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45307_A_53313180	NC_021165.1	Ca_Kabuli_Chr06	53313180	CC	TT	TT	INTRON	101490321	Unknown function
SNP_45308_A_53337765	NC_021165.1	Ca_Kabuli_Chr06	53337765	GG	AA	AA	INTERGENIC		
SNP_45309_A_53344248	NC_021165.1	Ca_Kabuli_Chr06	53344248	CC	TT	TT	INTERGENIC		
SNP_45310_A_53363334	NC_021165.1	Ca_Kabuli_Chr06	53363334	GG	TT	TT	DRR	101490969	transcription factor MYB46
SNP_45311_A_53372395	NC_021165.1	Ca_Kabuli_Chr06	53372395	TT	GG	GG	INTERGENIC		
SNP_45312_A_53372396	NC_021165.1	Ca_Kabuli_Chr06	53372396	TT	CC	CC	INTERGENIC		
SNP_45313_A_53411546	NC_021165.1	Ca_Kabuli_Chr06	53411546	GG	TT	TT	INTERGENIC		
SNP_45315_A_53414073	NC_021165.1	Ca_Kabuli_Chr06	53414073	TT	GG	GG	INTERGENIC		
SNP_45316_A_53419959	NC_021165.1	Ca_Kabuli_Chr06	53419959	AA	TT	TT	INTRON	101491914	aldehyde dehydrogenase family 3 member F1-like
SNP_45317_A_53487314	NC_021165.1	Ca_Kabuli_Chr06	53487314	GG	AA	AA	URR	101493244	E3 ubiquitin ligase BIG BROTHER-like
SNP_45318_A_53493580	NC_021165.1	Ca_Kabuli_Chr06	53493580	AA	CC	CC	INTERGENIC		
SNP_45319_A_53493733	NC_021165.1	Ca_Kabuli_Chr06	53493733	AA	CC	CC	INTERGENIC		
SNP_45320_A_53512000	NC_021165.1	Ca_Kabuli_Chr06	53512000	CC	AA	AA	INTRON	101504726	probable copper-transporting ATPase HMA5
SNP_45321_A_53547845	NC_021165.1	Ca_Kabuli_Chr06	53547845	TT	CC	CC	URR	101494307	zinc transporter ZTP29-like
SNP_45322_A_53627751	NC_021165.1	Ca_Kabuli_Chr06	53627751	TT	CC	CC	INTERGENIC		
SNP_45323_A_53648977	NC_021165.1	Ca_Kabuli_Chr06	53648977	GG	AA	AA	INTERGENIC		
SNP_45324_A_53649283	NC_021165.1	Ca_Kabuli_Chr06	53649283	AA	GG	GG	INTERGENIC		
SNP_45325_A_53664495	NC_021165.1	Ca_Kabuli_Chr06	53664495	TT	AA	AA	INTRON	101497986	uncharacterized LOC101497986
SNP_45327_A_53723223	NC_021165.1	Ca_Kabuli_Chr06	53723223	AA	GG	GG	INTERGENIC		
SNP_45328_A_53761180	NC_021165.1	Ca_Kabuli_Chr06	53761180	AA	TT	TT	URR	101505370	Unknown function
SNP_45329_A_53761184	NC_021165.1	Ca_Kabuli_Chr06	53761184	GG	TT	TT	URR	101505370	Unknown function
SNP_45331_A_53797876	NC_021165.1	Ca_Kabuli_Chr06	53797876	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45332_A_53797942	NC_021165.1	Ca_Kabuli_Chr06	53797942	AA	TT	TT	INTERGENIC		
SNP_45334_A_53815025	NC_021165.1	Ca_Kabuli_Chr06	53815025	AA	GG	GG	INTERGENIC		
SNP_45335_A_53815108	NC_021165.1	Ca_Kabuli_Chr06	53815108	CC	TT	TT	INTERGENIC		
SNP_45336_A_53837401	NC_021165.1	Ca_Kabuli_Chr06	53837401	CC	TT	TT	INTERGENIC		
SNP_45337_A_53842817	NC_021165.1	Ca_Kabuli_Chr06	53842817	AA	GG	GG	INTRON	101506664	beta-glucosidase 12-like
SNP_45338_A_53861524	NC_021165.1	Ca_Kabuli_Chr06	53861524	TT	CC	CC	INTERGENIC		
SNP_45339_A_53936509	NC_021165.1	Ca_Kabuli_Chr06	53936509	GG	AA	AA	INTERGENIC		
SNP_45340_A_53975705	NC_021165.1	Ca_Kabuli_Chr06	53975705	TT	GG	GG	INTERGENIC		
SNP_45341_A_53987118	NC_021165.1	Ca_Kabuli_Chr06	53987118	GG	AA	AA	INTERGENIC		
SNP_45342_A_53998707	NC_021165.1	Ca_Kabuli_Chr06	53998707	AA	TT	TT	INTERGENIC		
SNP_45343_A_54028721	NC_021165.1	Ca_Kabuli_Chr06	54028721	GG	AA	AA	INTERGENIC		
SNP_45344_A_54028739	NC_021165.1	Ca_Kabuli_Chr06	54028739	CC	AA	AA	INTERGENIC		
SNP_45345_A_54028884	NC_021165.1	Ca_Kabuli_Chr06	54028884	AA	CC	CC	INTERGENIC		
SNP_45346_A_54028885	NC_021165.1	Ca_Kabuli_Chr06	54028885	AA	GG	GG	INTERGENIC		
SNP_45348_A_54067208	NC_021165.1	Ca_Kabuli_Chr06	54067208	AA	CC	CC	INTERGENIC		
SNP_45349_A_54067251	NC_021165.1	Ca_Kabuli_Chr06	54067251	CC	GG	GG	INTERGENIC		
SNP_45351_A_54068770	NC_021165.1	Ca_Kabuli_Chr06	54068770	GG	TT	TT	INTERGENIC		
SNP_45352_A_54068841	NC_021165.1	Ca_Kabuli_Chr06	54068841	GG	TT	TT	INTERGENIC		
SNP_45355_A_54069012	NC_021165.1	Ca_Kabuli_Chr06	54069012	TT	CC	CC	INTERGENIC		
SNP_45356_A_54069087	NC_021165.1	Ca_Kabuli_Chr06	54069087	GG	TT	TT	INTERGENIC		
SNP_45358_A_54069773	NC_021165.1	Ca_Kabuli_Chr06	54069773	GG	AA	AA	INTERGENIC		
SNP_45359_A_54069784	NC_021165.1	Ca_Kabuli_Chr06	54069784	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45360_A_54069846	NC_021165.1	Ca_Kabuli_Chr06	54069846	TT	CC	CC	INTERGENIC		
SNP_45361_A_54069883	NC_021165.1	Ca_Kabuli_Chr06	54069883	TT	AA	AA	INTERGENIC		
SNP_45362_A_54069995	NC_021165.1	Ca_Kabuli_Chr06	54069995	CC	TT	TT	INTERGENIC		
SNP_45363_A_54070050	NC_021165.1	Ca_Kabuli_Chr06	54070050	TT	GG	GG	INTERGENIC		
SNP_45364_A_54070066	NC_021165.1	Ca_Kabuli_Chr06	54070066	TT	AA	AA	INTERGENIC		
SNP_45366_A_54070176	NC_021165.1	Ca_Kabuli_Chr06	54070176	CC	GG	GG	INTERGENIC		
SNP_45367_A_54070215	NC_021165.1	Ca_Kabuli_Chr06	54070215	CC	TT	TT	INTERGENIC		
SNP_45368_A_54070231	NC_021165.1	Ca_Kabuli_Chr06	54070231	GG	AA	AA	INTERGENIC		
SNP_45370_A_54070274	NC_021165.1	Ca_Kabuli_Chr06	54070274	CC	TT	TT	INTERGENIC		
SNP_45371_A_54070277	NC_021165.1	Ca_Kabuli_Chr06	54070277	AA	CC	CC	INTERGENIC		
SNP_45372_A_54070287	NC_021165.1	Ca_Kabuli_Chr06	54070287	CC	TT	TT	INTERGENIC		
SNP_45374_A_54143409	NC_021165.1	Ca_Kabuli_Chr06	54143409	GG	AA	AA	URR	101510297	uncharacterized LOC101510297
SNP_45375_A_54143425	NC_021165.1	Ca_Kabuli_Chr06	54143425	AA	TT	TT	URR	101510297	uncharacterized LOC101510297
SNP_45376_A_54143589	NC_021165.1	Ca_Kabuli_Chr06	54143589	TT	CC	CC	URR	101510297	uncharacterized LOC101510297
SNP_45378_A_54145747	NC_021165.1	Ca_Kabuli_Chr06	54145747	GG	AA	AA	INTERGENIC		
SNP_45379_A_54145753	NC_021165.1	Ca_Kabuli_Chr06	54145753	CC	TT	TT	INTERGENIC		
SNP_45380_A_54146087	NC_021165.1	Ca_Kabuli_Chr06	54146087	TT	AA	AA	INTERGENIC		
SNP_45381_A_54149706	NC_021165.1	Ca_Kabuli_Chr06	54149706	CC	TT	TT	DRR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_45382_A_54151685	NC_021165.1	Ca_Kabuli_Chr06	54151685	CC	TT	TT	DRR	101511161	pentatricopeptide repeat-containing protein At3g46870
SNP_45385_A_54160935	NC_021165.1	Ca_Kabuli_Chr06	54160935	CC	TT	TT	INTERGENIC		
SNP_45387_A_54161054	NC_021165.1	Ca_Kabuli_Chr06	54161054	GG	TT	TT	INTERGENIC		
SNP_45388_A_54161110	NC_021165.1	Ca_Kabuli_Chr06	54161110	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45389_A_54161387	NC_021165.1	Ca_Kabuli_Chr06	54161387	GG	AA	AA	INTERGENIC		
SNP_45390_A_54161388	NC_021165.1	Ca_Kabuli_Chr06	54161388	GG	AA	AA	INTERGENIC		
SNP_45391_A_54161410	NC_021165.1	Ca_Kabuli_Chr06	54161410	TT	CC	CC	INTERGENIC		
SNP_45392_A_54161427	NC_021165.1	Ca_Kabuli_Chr06	54161427	CC	TT	TT	INTERGENIC		
SNP_45393_A_54162056	NC_021165.1	Ca_Kabuli_Chr06	54162056	AA	GG	GG	INTERGENIC		
SNP_45394_A_54163140	NC_021165.1	Ca_Kabuli_Chr06	54163140	CC	AA	AA	INTERGENIC		
SNP_45395_A_54174287	NC_021165.1	Ca_Kabuli_Chr06	54174287	TT	CC	CC	INTERGENIC		
SNP_45396_A_54180058	NC_021165.1	Ca_Kabuli_Chr06	54180058	AA	TT	TT	INTERGENIC		
SNP_45397_A_54180260	NC_021165.1	Ca_Kabuli_Chr06	54180260	TT	CC	CC	INTERGENIC		
SNP_45399_A_54255636	NC_021165.1	Ca_Kabuli_Chr06	54255636	TT	CC	CC	INTERGENIC		
SNP_45400_A_54259449	NC_021165.1	Ca_Kabuli_Chr06	54259449	TT	CC	CC	INTERGENIC		
SNP_45401_A_54304815	NC_021165.1	Ca_Kabuli_Chr06	54304815	TT	CC	CC	INTERGENIC		
SNP_45402_A_54304822	NC_021165.1	Ca_Kabuli_Chr06	54304822	AA	TT	TT	INTERGENIC		
SNP_45403_A_54315075	NC_021165.1	Ca_Kabuli_Chr06	54315075	CC	TT	TT	INTERGENIC		
SNP_45405_A_54321612	NC_021165.1	Ca_Kabuli_Chr06	54321612	AA	GG	GG	INTERGENIC		
SNP_45406_A_54321621	NC_021165.1	Ca_Kabuli_Chr06	54321621	GG	TT	TT	INTERGENIC		
SNP_45407_A_54324130	NC_021165.1	Ca_Kabuli_Chr06	54324130	TT	CC	CC	INTERGENIC		
SNP_45408_A_54338661	NC_021165.1	Ca_Kabuli_Chr06	54338661	GG	AA	AA	URR	101490522	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like
SNP_45411_A_54339867	NC_021165.1	Ca_Kabuli_Chr06	54339867	CC	TT	TT	URR	101490522	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like
SNP_45413_A_54340047	NC_021165.1	Ca_Kabuli_Chr06	54340047	CC	TT	TT	URR	101490522	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like
SNP_45414_A_54340108	NC_021165.1	Ca_Kabuli_Chr06	54340108	TT	CC	CC	URR	101490522	ATP-dependent zinc metalloprotease FTSH 10, mitochondrial-like
SNP_45415_A_54340621	NC_021165.1	Ca_Kabuli_Chr06	54340621	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45416_A_54340641	NC_021165.1	Ca_Kabuli_Chr06	54340641	GG	AA	AA	INTERGENIC			
SNP_45417_A_54341482	NC_021165.1	Ca_Kabuli_Chr06	54341482	CC	GG	GG	INTERGENIC			
SNP_45419_A_54342499	NC_021165.1	Ca_Kabuli_Chr06	54342499	TT	CC	CC	INTERGENIC			
SNP_45420_A_54342738	NC_021165.1	Ca_Kabuli_Chr06	54342738	TT	AA	AA	INTERGENIC			
SNP_45421_A_54342772	NC_021165.1	Ca_Kabuli_Chr06	54342772	AA	TT	TT	INTERGENIC			
SNP_45422_A_54343711	NC_021165.1	Ca_Kabuli_Chr06	54343711	GG	AA	AA	DRR	101490970		uncharacterized protein C24B11.05-like
SNP_45423_A_54343834	NC_021165.1	Ca_Kabuli_Chr06	54343834	TT	AA	AA	INTERGENIC			
SNP_45425_A_54644217	NC_021165.1	Ca_Kabuli_Chr06	54644217	TT	CC	CC	INTERGENIC			
SNP_45426_A_54679400	NC_021165.1	Ca_Kabuli_Chr06	54679400	TT	CC	CC	INTERGENIC			
SNP_45427_A_54680812	NC_021165.1	Ca_Kabuli_Chr06	54680812	CC	TT	TT	INTERGENIC			
SNP_45428_A_54680822	NC_021165.1	Ca_Kabuli_Chr06	54680822	TT	CC	CC	INTERGENIC			
SNP_45429_A_54681111	NC_021165.1	Ca_Kabuli_Chr06	54681111	TT	GG	GG	INTERGENIC			
SNP_45430_A_54682456	NC_021165.1	Ca_Kabuli_Chr06	54682456	CC	TT	TT	INTERGENIC			
SNP_45432_A_54715992	NC_021165.1	Ca_Kabuli_Chr06	54715992	AA	GG	GG	URR	101495041		uncharacterized LOC101495041
SNP_45433_A_54715996	NC_021165.1	Ca_Kabuli_Chr06	54715996	AA	GG	GG	URR	101495041		uncharacterized LOC101495041
SNP_45434_A_54720790	NC_021165.1	Ca_Kabuli_Chr06	54720790	TT	CC	CC	INTERGENIC			
SNP_45435_A_54720860	NC_021165.1	Ca_Kabuli_Chr06	54720860	GG	TT	TT	INTERGENIC			
SNP_45436_A_54720866	NC_021165.1	Ca_Kabuli_Chr06	54720866	AA	GG	GG	INTERGENIC			
SNP_45437_A_54754815	NC_021165.1	Ca_Kabuli_Chr06	54754815	TT	AA	AA	INTERGENIC			
SNP_45438_A_54754859	NC_021165.1	Ca_Kabuli_Chr06	54754859	AA	GG	GG	INTERGENIC			
SNP_45439_A_54754890	NC_021165.1	Ca_Kabuli_Chr06	54754890	AA	CC	CC	INTERGENIC			
SNP_45440_A_54756776	NC_021165.1	Ca_Kabuli_Chr06	54756776	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45441_A_54792784	NC_021165.1	Ca_Kabuli_Chr06	54792784	TT	AA	AA	INTERGENIC			
SNP_45442_A_54792817	NC_021165.1	Ca_Kabuli_Chr06	54792817	CC	GG	GG	INTERGENIC			
SNP_45443_A_54792821	NC_021165.1	Ca_Kabuli_Chr06	54792821	GG	TT	TT	INTERGENIC			
SNP_45444_A_54868923	NC_021165.1	Ca_Kabuli_Chr06	54868923	AA	GG	GG	INTERGENIC			
SNP_45445_A_54869157	NC_021165.1	Ca_Kabuli_Chr06	54869157	TT	GG	GG	INTERGENIC			
SNP_45446_A_54869264	NC_021165.1	Ca_Kabuli_Chr06	54869264	CC	TT	TT	INTERGENIC			
SNP_45447_A_54886623	NC_021165.1	Ca_Kabuli_Chr06	54886623	CC	TT	TT	INTERGENIC			
SNP_45448_A_54886648	NC_021165.1	Ca_Kabuli_Chr06	54886648	AA	GG	GG	INTERGENIC			
SNP_45449_A_54886693	NC_021165.1	Ca_Kabuli_Chr06	54886693	TT	CC	CC	INTERGENIC			
SNP_45450_A_54886705	NC_021165.1	Ca_Kabuli_Chr06	54886705	AA	GG	GG	INTERGENIC			
SNP_45451_A_54886733	NC_021165.1	Ca_Kabuli_Chr06	54886733	AA	GG	GG	INTERGENIC			
SNP_45452_A_54886832	NC_021165.1	Ca_Kabuli_Chr06	54886832	GG	AA	AA	INTERGENIC			
SNP_45453_A_54886877	NC_021165.1	Ca_Kabuli_Chr06	54886877	GG	AA	AA	INTERGENIC			
SNP_45454_A_54887103	NC_021165.1	Ca_Kabuli_Chr06	54887103	TT	CC	CC	INTERGENIC			
SNP_45455_A_54887202	NC_021165.1	Ca_Kabuli_Chr06	54887202	CC	TT	TT	INTERGENIC			
SNP_45456_A_54908188	NC_021165.1	Ca_Kabuli_Chr06	54908188	CC	TT	TT	INTERGENIC			
SNP_45459_A_54933189	NC_021165.1	Ca_Kabuli_Chr06	54933189	CC	TT	TT	INTERGENIC			
SNP_45460_A_54933290	NC_021165.1	Ca_Kabuli_Chr06	54933290	CC	TT	TT	INTERGENIC			
SNP_45461_A_54933291	NC_021165.1	Ca_Kabuli_Chr06	54933291	CC	AA	AA	INTERGENIC			
SNP_45462_A_54933294	NC_021165.1	Ca_Kabuli_Chr06	54933294	TT	CC	CC	INTERGENIC			
SNP_45463_A_54933513	NC_021165.1	Ca_Kabuli_Chr06	54933513	GG	TT	TT	INTERGENIC			
SNP_45464_A_54933514	NC_021165.1	Ca_Kabuli_Chr06	54933514	GG	TT	TT	INTERGENIC			

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SNP_45465_A_54933522	NC_021165.1	Ca_Kabuli_Chr06	54933522	GG	TT	TT	INTERGENIC			
SNP_45466_A_54933559	NC_021165.1	Ca_Kabuli_Chr06	54933559	GG	AA	AA	INTERGENIC			
SNP_45468_A_54934216	NC_021165.1	Ca_Kabuli_Chr06	54934216	TT	CC	CC	INTERGENIC			
SNP_45469_A_54934535	NC_021165.1	Ca_Kabuli_Chr06	54934535	AA	GG	GG	INTERGENIC			
SNP_45470_A_54934624	NC_021165.1	Ca_Kabuli_Chr06	54934624	CC	TT	TT	INTERGENIC			
SNP_45471_A_54934667	NC_021165.1	Ca_Kabuli_Chr06	54934667	GG	CC	CC	INTERGENIC			
SNP_45472_A_54938304	NC_021165.1	Ca_Kabuli_Chr06	54938304	TT	CC	CC	INTERGENIC			
SNP_45474_A_54962651	NC_021165.1	Ca_Kabuli_Chr06	54962651	CC	TT	TT	INTERGENIC			
SNP_45475_A_54976772	NC_021165.1	Ca_Kabuli_Chr06	54976772	CC	TT	TT	INTERGENIC			
SNP_45476_A_55004068	NC_021165.1	Ca_Kabuli_Chr06	55004068	CC	TT	TT	INTERGENIC			
SNP_45477_A_55004069	NC_021165.1	Ca_Kabuli_Chr06	55004069	AA	GG	GG	INTERGENIC			
SNP_45478_A_55004072	NC_021165.1	Ca_Kabuli_Chr06	55004072	AA	GG	GG	INTERGENIC			
SNP_45479_A_55113130	NC_021165.1	Ca_Kabuli_Chr06	55113130	AA	GG	GG	INTERGENIC			
SNP_45480_A_55113269	NC_021165.1	Ca_Kabuli_Chr06	55113269	AA	GG	GG	INTERGENIC			
SNP_45481_A_55113412	NC_021165.1	Ca_Kabuli_Chr06	55113412	GG	AA	AA	INTERGENIC			
SNP_45483_A_55156113	NC_021165.1	Ca_Kabuli_Chr06	55156113	GG	AA	AA	INTERGENIC			
SNP_45484_A_55156117	NC_021165.1	Ca_Kabuli_Chr06	55156117	GG	AA	AA	INTERGENIC			
SNP_45485_A_55345396	NC_021165.1	Ca_Kabuli_Chr06	55345396	TT	GG	GG	INTERGENIC			
SNP_45486_A_55345421	NC_021165.1	Ca_Kabuli_Chr06	55345421	TT	CC	CC	INTERGENIC			
SNP_45487_A_55345450	NC_021165.1	Ca_Kabuli_Chr06	55345450	AA	GG	GG	INTERGENIC			
SNP_45488_A_55345458	NC_021165.1	Ca_Kabuli_Chr06	55345458	CC	GG	GG	INTERGENIC			
SNP_45489_A_55345578	NC_021165.1	Ca_Kabuli_Chr06	55345578	AA	GG	GG	INTERGENIC			

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SNP_45490_A_55345693	NC_021165.1	Ca_Kabuli_Chr06	55345693	CC	TT	TT	INTERGENIC		
SNP_45491_A_55345670	NC_021165.1	Ca_Kabuli_Chr06	55345670	AA	GG	GG	INTERGENIC		
SNP_45492_A_55356692	NC_021165.1	Ca_Kabuli_Chr06	55356692	GG	CC	CC	INTERGENIC		
SNP_45493_A_55373818	NC_021165.1	Ca_Kabuli_Chr06	55373818	GG	AA	AA	INTERGENIC		
SNP_45494_A_55399737	NC_021165.1	Ca_Kabuli_Chr06	55399737	TT	AA	AA	DRR	101512759	uncharacterized LOC101512759
SNP_45495_A_55399764	NC_021165.1	Ca_Kabuli_Chr06	55399764	CC	TT	TT	DRR	101512759	uncharacterized LOC101512759
SNP_45496_A_55399783	NC_021165.1	Ca_Kabuli_Chr06	55399783	TT	AA	AA	DRR	101512759	uncharacterized LOC101512759
SNP_45497_A_55399785	NC_021165.1	Ca_Kabuli_Chr06	55399785	TT	AA	AA	DRR	101512759	uncharacterized LOC101512759
SNP_45498_A_55399918	NC_021165.1	Ca_Kabuli_Chr06	55399918	CC	TT	TT	DRR	101512759	uncharacterized LOC101512759
SNP_45499_A_55399955	NC_021165.1	Ca_Kabuli_Chr06	55399955	GG	AA	AA	DRR	101512759	uncharacterized LOC101512759
SNP_45500_A_55400070	NC_021165.1	Ca_Kabuli_Chr06	55400070	AA	TT	TT	DRR	101512759	uncharacterized LOC101512759
SNP_45501_A_55400220	NC_021165.1	Ca_Kabuli_Chr06	55400220	CC	AA	AA	DRR	101512759	uncharacterized LOC101512759
SNP_45502_A_55431177	NC_021165.1	Ca_Kabuli_Chr06	55431177	AA	CC	CC	INTRON	101503109	xyloglucan endotransglucosylase/hydrolase protein 9-like
SNP_45503_A_55431679	NC_021165.1	Ca_Kabuli_Chr06	55431679	TT	CC	CC	INTRON	101503109	xyloglucan endotransglucosylase/hydrolase protein 9-like
SNP_45504_A_55437239	NC_021165.1	Ca_Kabuli_Chr06	55437239	AA	GG	GG	URR	101503109	xyloglucan endotransglucosylase/hydrolase protein 9-like
SNP_45505_A_55445551	NC_021165.1	Ca_Kabuli_Chr06	55445551	GG	TT	TT	INTERGENIC		
SNP_45507_A_55445679	NC_021165.1	Ca_Kabuli_Chr06	55445679	TT	AA	AA	INTERGENIC		
SNP_45508_A_55445695	NC_021165.1	Ca_Kabuli_Chr06	55445695	TT	GG	GG	INTERGENIC		
SNP_45509_A_55445768	NC_021165.1	Ca_Kabuli_Chr06	55445768	TT	GG	GG	INTERGENIC		
SNP_45510_A_55446198	NC_021165.1	Ca_Kabuli_Chr06	55446198	TT	CC	CC	INTERGENIC		
SNP_45511_A_55446331	NC_021165.1	Ca_Kabuli_Chr06	55446331	CC	GG	GG	INTERGENIC		
SNP_45512_A_55446339	NC_021165.1	Ca_Kabuli_Chr06	55446339	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45513_A_55446365	NC_021165.1	Ca_Kabuli_Chr06	55446365	AA	GG	GG	INTERGENIC		
SNP_45514_A_55446366	NC_021165.1	Ca_Kabuli_Chr06	55446366	GG	AA	AA	INTERGENIC		
SNP_45515_A_55455857	NC_021165.1	Ca_Kabuli_Chr06	55455857	AA	TT	TT	INTRON	101513415	Unknown function
SNP_45516_A_55455904	NC_021165.1	Ca_Kabuli_Chr06	55455904	CC	TT	TT	INTRON	101513415	Unknown function
SNP_45517_A_55455905	NC_021165.1	Ca_Kabuli_Chr06	55455905	GG	TT	TT	INTRON	101513415	Unknown function
SNP_45520_A_55557010	NC_021165.1	Ca_Kabuli_Chr06	55557010	CC	TT	TT	INTERGENIC		
SNP_45521_A_55607439	NC_021165.1	Ca_Kabuli_Chr06	55607439	TT	GG	GG	INTERGENIC		
SNP_45522_A_55607862	NC_021165.1	Ca_Kabuli_Chr06	55607862	TT	AA	AA	INTERGENIC		
SNP_45523_A_55607866	NC_021165.1	Ca_Kabuli_Chr06	55607866	TT	GG	GG	INTERGENIC		
SNP_45524_A_55609276	NC_021165.1	Ca_Kabuli_Chr06	55609276	CC	TT	TT	INTERGENIC		
SNP_45525_A_55609551	NC_021165.1	Ca_Kabuli_Chr06	55609551	AA	GG	GG	INTERGENIC		
SNP_45526_A_55617841	NC_021165.1	Ca_Kabuli_Chr06	55617841	CC	TT	TT	INTRON	101504097	H/ACA ribonucleoprotein complex non-core subunit NAF1-like
SNP_45527_A_55684802	NC_021165.1	Ca_Kabuli_Chr06	55684802	GG	CC	CC	INTERGENIC		
SNP_45528_A_55684810	NC_021165.1	Ca_Kabuli_Chr06	55684810	GG	AA	AA	INTERGENIC		
SNP_45529_A_55684819	NC_021165.1	Ca_Kabuli_Chr06	55684819	AA	GG	GG	INTERGENIC		
SNP_45531_A_55684871	NC_021165.1	Ca_Kabuli_Chr06	55684871	TT	AA	AA	INTERGENIC		
SNP_45532_A_55727926	NC_021165.1	Ca_Kabuli_Chr06	55727926	GG	CC	CC	INTERGENIC		
SNP_45534_A_55771091	NC_021165.1	Ca_Kabuli_Chr06	55771091	AA	GG	GG	INTERGENIC		
SNP_45537_A_55771600	NC_021165.1	Ca_Kabuli_Chr06	55771600	AA	GG	GG	INTERGENIC		
SNP_45539_A_55807363	NC_021165.1	Ca_Kabuli_Chr06	55807363	GG	TT	TT	INTERGENIC		
SNP_45540_A_55826329	NC_021165.1	Ca_Kabuli_Chr06	55826329	TT	AA	AA	INTERGENIC		
SNP_45541_A_55826392	NC_021165.1	Ca_Kabuli_Chr06	55826392	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45542_A_55826428	NC_021165.1	Ca_Kabuli_Chr06	55826428	CC	TT	TT	INTERGENIC		
SNP_45543_A_55826779	NC_021165.1	Ca_Kabuli_Chr06	55826779	TT	AA	AA	INTERGENIC		
SNP_45544_A_55826832	NC_021165.1	Ca_Kabuli_Chr06	55826832	GG	AA	AA	INTERGENIC		
SNP_45545_A_55826845	NC_021165.1	Ca_Kabuli_Chr06	55826845	GG	TT	TT	INTERGENIC		
SNP_45547_A_55826902	NC_021165.1	Ca_Kabuli_Chr06	55826902	CC	TT	TT	INTERGENIC		
SNP_45548_A_55847708	NC_021165.1	Ca_Kabuli_Chr06	55847708	GG	AA	AA	INTERGENIC		
SNP_45550_A_55890229	NC_021165.1	Ca_Kabuli_Chr06	55890229	TT	GG	GG	INTERGENIC		
SNP_45551_A_55944030	NC_021165.1	Ca_Kabuli_Chr06	55944030	CC	TT	TT	URR	101488798	probable E3 ubiquitin-protein ligase HIP1
SNP_45552_A_55944043	NC_021165.1	Ca_Kabuli_Chr06	55944043	TT	CC	CC	URR	101488798	probable E3 ubiquitin-protein ligase HIP1
SNP_45553_A_55972890	NC_021165.1	Ca_Kabuli_Chr06	55972890	AA	TT	TT	INTERGENIC		
SNP_45554_A_55991796	NC_021165.1	Ca_Kabuli_Chr06	55991796	TT	AA	AA	INTERGENIC		
SNP_45555_A_55991798	NC_021165.1	Ca_Kabuli_Chr06	55991798	GG	AA	AA	INTERGENIC		
SNP_45556_A_56003026	NC_021165.1	Ca_Kabuli_Chr06	56003026	AA	GG	GG	INTERGENIC		
SNP_45557_A_56047227	NC_021165.1	Ca_Kabuli_Chr06	56047227	AA	GG	GG	INTERGENIC		
SNP_45558_A_56051663	NC_021165.1	Ca_Kabuli_Chr06	56051663	AA	GG	GG	INTERGENIC		
SNP_45559_A_56056706	NC_021165.1	Ca_Kabuli_Chr06	56056706	AA	TT	TT	INTERGENIC		
SNP_45560_A_56082017	NC_021165.1	Ca_Kabuli_Chr06	56082017	AA	GG	GG	INTERGENIC		
SNP_45561_A_56082029	NC_021165.1	Ca_Kabuli_Chr06	56082029	AA	TT	TT	INTERGENIC		
SNP_45562_A_56087431	NC_021165.1	Ca_Kabuli_Chr06	56087431	GG	AA	AA	INTERGENIC		
SNP_45563_A_56087473	NC_021165.1	Ca_Kabuli_Chr06	56087473	GG	TT	TT	INTERGENIC		
SNP_45565_A_56087743	NC_021165.1	Ca_Kabuli_Chr06	56087743	TT	AA	AA	INTERGENIC		
SNP_45566_A_56087747	NC_021165.1	Ca_Kabuli_Chr06	56087747	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45567_A_56091954	NC_021165.1	Ca_Kabuli_Chr06	56091954	GG	TT	TT	INTERGENIC			
SNP_45568_A_56138213	NC_021165.1	Ca_Kabuli_Chr06	56138213	CC	TT	TT	INTERGENIC			
SNP_45569_A_56138593	NC_021165.1	Ca_Kabuli_Chr06	56138593	GG	AA	AA	INTERGENIC			
SNP_45570_A_56138641	NC_021165.1	Ca_Kabuli_Chr06	56138641	CC	TT	TT	INTERGENIC			
SNP_45571_A_56138924	NC_021165.1	Ca_Kabuli_Chr06	56138924	GG	AA	AA	INTERGENIC			
SNP_45572_A_56139045	NC_021165.1	Ca_Kabuli_Chr06	56139045	AA	GG	GG	INTERGENIC			
SNP_45573_A_56139152	NC_021165.1	Ca_Kabuli_Chr06	56139152	AA	GG	GG	INTERGENIC			
SNP_45574_A_56139180	NC_021165.1	Ca_Kabuli_Chr06	56139180	TT	CC	CC	INTERGENIC			
SNP_45575_A_56139211	NC_021165.1	Ca_Kabuli_Chr06	56139211	TT	CC	CC	INTERGENIC			
SNP_45576_A_56139233	NC_021165.1	Ca_Kabuli_Chr06	56139233	TT	CC	CC	INTERGENIC			
SNP_45577_A_56139303	NC_021165.1	Ca_Kabuli_Chr06	56139303	AA	TT	TT	INTERGENIC			
SNP_45578_A_56139310	NC_021165.1	Ca_Kabuli_Chr06	56139310	AA	GG	GG	INTERGENIC			
SNP_45579_A_56139342	NC_021165.1	Ca_Kabuli_Chr06	56139342	TT	AA	AA	INTERGENIC			
SNP_45580_A_56139349	NC_021165.1	Ca_Kabuli_Chr06	56139349	CC	GG	GG	INTERGENIC			
SNP_45581_A_56139456	NC_021165.1	Ca_Kabuli_Chr06	56139456	AA	GG	GG	INTERGENIC			
SNP_45582_A_56139457	NC_021165.1	Ca_Kabuli_Chr06	56139457	TT	GG	GG	INTERGENIC			
SNP_45583_A_56139459	NC_021165.1	Ca_Kabuli_Chr06	56139459	TT	GG	GG	INTERGENIC			
SNP_45584_A_56191111	NC_021165.1	Ca_Kabuli_Chr06	56191111	AA	CC	CC	INTERGENIC			
SNP_45586_A_56191348	NC_021165.1	Ca_Kabuli_Chr06	56191348	CC	TT	TT	INTERGENIC			
SNP_45587_A_56193416	NC_021165.1	Ca_Kabuli_Chr06	56193416	TT	CC	CC	INTERGENIC			
SNP_45588_A_56193443	NC_021165.1	Ca_Kabuli_Chr06	56193443	AA	TT	TT	INTERGENIC			
SNP_45589_A_56229389	NC_021165.1	Ca_Kabuli_Chr06	56229389	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45590_A_56232066	NC_021165.1	Ca_Kabuli_Chr06	56232066	AA	GG	GG	INTERGENIC		
SNP_45591_A_56245312	NC_021165.1	Ca_Kabuli_Chr06	56245312	GG	AA	AA	INTERGENIC		
SNP_45592_A_56245362	NC_021165.1	Ca_Kabuli_Chr06	56245362	AA	TT	TT	INTERGENIC		
SNP_45593_A_56245374	NC_021165.1	Ca_Kabuli_Chr06	56245374	AA	GG	GG	INTERGENIC		
SNP_45594_A_56245656	NC_021165.1	Ca_Kabuli_Chr06	56245656	TT	AA	AA	INTERGENIC		
SNP_45595_A_56293091	NC_021165.1	Ca_Kabuli_Chr06	56293091	CC	TT	TT	INTERGENIC		
SNP_45596_A_56303103	NC_021165.1	Ca_Kabuli_Chr06	56303103	CC	GG	GG	INTERGENIC		
SNP_45597_A_56303638	NC_021165.1	Ca_Kabuli_Chr06	56303638	GG	AA	AA	INTERGENIC		
SNP_45598_A_56304046	NC_021165.1	Ca_Kabuli_Chr06	56304046	TT	CC	CC	INTERGENIC		
SNP_45599_A_56304210	NC_021165.1	Ca_Kabuli_Chr06	56304210	AA	TT	TT	INTERGENIC		
SNP_45600_A_56304463	NC_021165.1	Ca_Kabuli_Chr06	56304463	CC	TT	TT	INTERGENIC		
SNP_45601_A_56304474	NC_021165.1	Ca_Kabuli_Chr06	56304474	GG	AA	AA	INTERGENIC		
SNP_45602_A_56304475	NC_021165.1	Ca_Kabuli_Chr06	56304475	TT	AA	AA	INTERGENIC		
SNP_45603_A_56304482	NC_021165.1	Ca_Kabuli_Chr06	56304482	AA	TT	TT	INTERGENIC		
SNP_45604_A_56304500	NC_021165.1	Ca_Kabuli_Chr06	56304500	GG	AA	AA	INTERGENIC		
SNP_45605_A_56304506	NC_021165.1	Ca_Kabuli_Chr06	56304506	GG	AA	AA	INTERGENIC		
SNP_45606_A_56304780	NC_021165.1	Ca_Kabuli_Chr06	56304780	CC	GG	GG	INTERGENIC		
SNP_45607_A_56304804	NC_021165.1	Ca_Kabuli_Chr06	56304804	TT	CC	CC	INTERGENIC		
SNP_45608_A_56304851	NC_021165.1	Ca_Kabuli_Chr06	56304851	AA	CC	CC	INTERGENIC		
SNP_45609_A_56304916	NC_021165.1	Ca_Kabuli_Chr06	56304916	GG	AA	AA	INTERGENIC		
SNP_45610_A_56325287	NC_021165.1	Ca_Kabuli_Chr06	56325287	GG	AA	AA	INTERGENIC		
SNP_45611_A_56397942	NC_021165.1	Ca_Kabuli_Chr06	56397942	TT	CC	CC	INTRON	101494099	MLO-like protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45612_A_56397986	NC_021165.1	Ca_Kabuli_Chr06	56397986	TT	CC	CC	INTRON	101494099	MLO-like protein 1
SNP_45613_A_56397993	NC_021165.1	Ca_Kabuli_Chr06	56397993	AA	GG	GG	INTRON	101494099	MLO-like protein 1
SNP_45614_A_56410754	NC_021165.1	Ca_Kabuli_Chr06	56410754	AA	GG	GG	INTRON	101494099	MLO-like protein 1
SNP_45615_A_56411945	NC_021165.1	Ca_Kabuli_Chr06	56411945	CC	AA	AA	INTRON	101494099	MLO-like protein 1
SNP_45616_A_56423147	NC_021165.1	Ca_Kabuli_Chr06	56423147	AA	CC	CC	INTRON	101494099	MLO-like protein 1
SNP_45617_A_56423148	NC_021165.1	Ca_Kabuli_Chr06	56423148	AA	CC	CC	INTRON	101494099	MLO-like protein 1
SNP_45618_A_56423463	NC_021165.1	Ca_Kabuli_Chr06	56423463	AA	GG	GG	INTRON	101494099	MLO-like protein 1
SNP_45619_A_56461578	NC_021165.1	Ca_Kabuli_Chr06	56461578	GG	AA	AA	INTERGENIC		
SNP_45620_A_56464718	NC_021165.1	Ca_Kabuli_Chr06	56464718	CC	TT	TT	INTERGENIC		
SNP_45621_A_56464722	NC_021165.1	Ca_Kabuli_Chr06	56464722	CC	GG	GG	INTERGENIC		
SNP_45622_A_56464769	NC_021165.1	Ca_Kabuli_Chr06	56464769	CC	TT	TT	INTERGENIC		
SNP_45623_A_56502583	NC_021165.1	Ca_Kabuli_Chr06	56502583	AA	TT	TT	INTERGENIC		
SNP_45624_A_56502686	NC_021165.1	Ca_Kabuli_Chr06	56502686	CC	AA	AA	INTERGENIC		
SNP_45625_A_56502736	NC_021165.1	Ca_Kabuli_Chr06	56502736	TT	CC	CC	INTERGENIC		
SNP_45626_A_56503529	NC_021165.1	Ca_Kabuli_Chr06	56503529	CC	TT	TT	INTERGENIC		
SNP_45627_A_56503530	NC_021165.1	Ca_Kabuli_Chr06	56503530	GG	AA	AA	INTERGENIC		
SNP_45628_A_56503557	NC_021165.1	Ca_Kabuli_Chr06	56503557	GG	CC	CC	INTERGENIC		
SNP_45629_A_56503561	NC_021165.1	Ca_Kabuli_Chr06	56503561	AA	TT	TT	INTERGENIC		
SNP_45630_A_56503597	NC_021165.1	Ca_Kabuli_Chr06	56503597	AA	TT	TT	INTERGENIC		
SNP_45631_A_56503611	NC_021165.1	Ca_Kabuli_Chr06	56503611	AA	GG	GG	INTERGENIC		
SNP_45632_A_56503616	NC_021165.1	Ca_Kabuli_Chr06	56503616	GG	AA	AA	INTERGENIC		
SNP_45633_A_56503617	NC_021165.1	Ca_Kabuli_Chr06	56503617	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45634_A_56503657	NC_021165.1	Ca_Kabuli_Chr06	56503657	CC	TT	TT	INTERGENIC			
SNP_45635_A_56503665	NC_021165.1	Ca_Kabuli_Chr06	56503665	CC	TT	TT	INTERGENIC			
SNP_45636_A_56503683	NC_021165.1	Ca_Kabuli_Chr06	56503683	CC	TT	TT	INTERGENIC			
SNP_45637_A_56503687	NC_021165.1	Ca_Kabuli_Chr06	56503687	TT	CC	CC	INTERGENIC			
SNP_45638_A_56503716	NC_021165.1	Ca_Kabuli_Chr06	56503716	CC	AA	AA	INTERGENIC			
SNP_45639_A_56503720	NC_021165.1	Ca_Kabuli_Chr06	56503720	TT	GG	GG	INTERGENIC			
SNP_45640_A_56503750	NC_021165.1	Ca_Kabuli_Chr06	56503750	GG	AA	AA	INTERGENIC			
SNP_45641_A_56503874	NC_021165.1	Ca_Kabuli_Chr06	56503874	TT	AA	AA	INTERGENIC			
SNP_45642_A_56503880	NC_021165.1	Ca_Kabuli_Chr06	56503880	CC	AA	AA	INTERGENIC			
SNP_45643_A_56503888	NC_021165.1	Ca_Kabuli_Chr06	56503888	AA	CC	CC	INTERGENIC			
SNP_45644_A_56503913	NC_021165.1	Ca_Kabuli_Chr06	56503913	TT	CC	CC	INTERGENIC			
SNP_45645_A_56503916	NC_021165.1	Ca_Kabuli_Chr06	56503916	CC	TT	TT	INTERGENIC			
SNP_45646_A_56503941	NC_021165.1	Ca_Kabuli_Chr06	56503941	GG	AA	AA	INTERGENIC			
SNP_45648_A_56504050	NC_021165.1	Ca_Kabuli_Chr06	56504050	AA	GG	GG	INTERGENIC			
SNP_45649_A_56504070	NC_021165.1	Ca_Kabuli_Chr06	56504070	AA	GG	GG	INTERGENIC			
SNP_45650_A_56504092	NC_021165.1	Ca_Kabuli_Chr06	56504092	TT	AA	AA	INTERGENIC			
SNP_45652_A_56504316	NC_021165.1	Ca_Kabuli_Chr06	56504316	AA	GG	GG	INTERGENIC			
SNP_45653_A_56504334	NC_021165.1	Ca_Kabuli_Chr06	56504334	TT	AA	GG	INTERGENIC			
SNP_45654_A_56504541	NC_021165.1	Ca_Kabuli_Chr06	56504541	CC	GG	GG	INTERGENIC			
SNP_45655_A_56504611	NC_021165.1	Ca_Kabuli_Chr06	56504611	TT	AA	AA	INTERGENIC			
SNP_45656_A_56504620	NC_021165.1	Ca_Kabuli_Chr06	56504620	AA	CC	CC	INTERGENIC			
SNP_45657_A_56504633	NC_021165.1	Ca_Kabuli_Chr06	56504633	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45659_A_56504785	NC_021165.1	Ca_Kabuli_Chr06	56504785	TT	AA	AA	INTERGENIC			
SNP_45660_A_56505062	NC_021165.1	Ca_Kabuli_Chr06	56505062	TT	GG	GG	INTERGENIC			
SNP_45661_A_56505167	NC_021165.1	Ca_Kabuli_Chr06	56505167	CC	TT	TT	INTERGENIC			
SNP_45662_A_56505248	NC_021165.1	Ca_Kabuli_Chr06	56505248	AA	GG	GG	INTERGENIC			
SNP_45663_A_56505253	NC_021165.1	Ca_Kabuli_Chr06	56505253	AA	GG	GG	INTERGENIC			
SNP_45664_A_56505317	NC_021165.1	Ca_Kabuli_Chr06	56505317	CC	TT	TT	INTERGENIC			
SNP_45665_A_56505321	NC_021165.1	Ca_Kabuli_Chr06	56505321	TT	CC	CC	INTERGENIC			
SNP_45666_A_56505327	NC_021165.1	Ca_Kabuli_Chr06	56505327	CC	AA	AA	INTERGENIC			
SNP_45667_A_56505389	NC_021165.1	Ca_Kabuli_Chr06	56505389	TT	CC	CC	INTERGENIC			
SNP_45668_A_56505400	NC_021165.1	Ca_Kabuli_Chr06	56505400	TT	AA	AA	INTERGENIC			
SNP_45669_A_56505409	NC_021165.1	Ca_Kabuli_Chr06	56505409	AA	GG	GG	INTERGENIC			
SNP_45670_A_56505420	NC_021165.1	Ca_Kabuli_Chr06	56505420	GG	CC	CC	INTERGENIC			
SNP_45671_A_56505540	NC_021165.1	Ca_Kabuli_Chr06	56505540	CC	TT	TT	INTERGENIC			
SNP_45672_A_56505548	NC_021165.1	Ca_Kabuli_Chr06	56505548	TT	CC	CC	INTERGENIC			
SNP_45673_A_56505563	NC_021165.1	Ca_Kabuli_Chr06	56505563	TT	CC	CC	INTERGENIC			
SNP_45675_A_56505622	NC_021165.1	Ca_Kabuli_Chr06	56505622	AA	CC	CC	INTERGENIC			
SNP_45676_A_56505656	NC_021165.1	Ca_Kabuli_Chr06	56505656	TT	GG	GG	INTERGENIC			
SNP_45677_A_56506744	NC_021165.1	Ca_Kabuli_Chr06	56506744	AA	GG	GG	INTERGENIC			
SNP_45678_A_56506806	NC_021165.1	Ca_Kabuli_Chr06	56506806	GG	AA	AA	INTERGENIC			
SNP_45679_A_56506953	NC_021165.1	Ca_Kabuli_Chr06	56506953	CC	TT	TT	INTERGENIC			
SNP_45680_A_56506985	NC_021165.1	Ca_Kabuli_Chr06	56506985	TT	CC	CC	INTERGENIC			
SNP_45681_A_56507132	NC_021165.1	Ca_Kabuli_Chr06	56507132	TT	CC	CC	INTERGENIC			

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SNP_45682_A_56507160	NC_021165.1	Ca_Kabuli_Chr06	56507160	AA	GG	GG	INTERGENIC			
SNP_45683_A_56507352	NC_021165.1	Ca_Kabuli_Chr06	56507352	CC	TT	TT	INTERGENIC			
SNP_45684_A_56507373	NC_021165.1	Ca_Kabuli_Chr06	56507373	CC	AA	AA	INTERGENIC			
SNP_45685_A_56507394	NC_021165.1	Ca_Kabuli_Chr06	56507394	TT	AA	AA	INTERGENIC			
SNP_45687_A_56507463	NC_021165.1	Ca_Kabuli_Chr06	56507463	CC	AA	AA	INTERGENIC			
SNP_45688_A_56507466	NC_021165.1	Ca_Kabuli_Chr06	56507466	GG	AA	AA	INTERGENIC			
SNP_45689_A_56507487	NC_021165.1	Ca_Kabuli_Chr06	56507487	TT	AA	AA	INTERGENIC			
SNP_45690_A_56507715	NC_021165.1	Ca_Kabuli_Chr06	56507715	TT	CC	CC	INTERGENIC			
SNP_45692_A_56507746	NC_021165.1	Ca_Kabuli_Chr06	56507746	TT	AA	AA	INTERGENIC			
SNP_45693_A_56507791	NC_021165.1	Ca_Kabuli_Chr06	56507791	CC	TT	TT	INTERGENIC			
SNP_45695_A_56507803	NC_021165.1	Ca_Kabuli_Chr06	56507803	GG	AA	AA	INTERGENIC			
SNP_45696_A_56508135	NC_021165.1	Ca_Kabuli_Chr06	56508135	GG	AA	AA	INTERGENIC			
SNP_45697_A_56508190	NC_021165.1	Ca_Kabuli_Chr06	56508190	AA	TT	TT	INTERGENIC			
SNP_45698_A_56528011	NC_021165.1	Ca_Kabuli_Chr06	56528011	TT	CC	CC	INTERGENIC			
SNP_45699_A_56560731	NC_021165.1	Ca_Kabuli_Chr06	56560731	AA	GG	GG	URR	101495914	cell division cycle protein 27 homolog B-like	
SNP_45700_A_56578993	NC_021165.1	Ca_Kabuli_Chr06	56578993	TT	CC	CC	INTERGENIC			
SNP_45701_A_56621648	NC_021165.1	Ca_Kabuli_Chr06	56621648	CC	GG	GG	INTERGENIC			
SNP_45702_A_56626920	NC_021165.1	Ca_Kabuli_Chr06	56626920	TT	CC	CC	INTRON	101498535	proline dehydrogenase 2, mitochondrial-like	
SNP_45703_A_56635705	NC_021165.1	Ca_Kabuli_Chr06	56635705	TT	AA	AA	INTRON	101515269	serine/threonine-protein phosphatase 7 long form homolog	
SNP_45704_A_56655711	NC_021165.1	Ca_Kabuli_Chr06	56655711	CC	AA	AA	INTERGENIC			
SNP_45705_A_56669388	NC_021165.1	Ca_Kabuli_Chr06	56669388	AA	GG	GG	DRR	101498206	ATP-dependent RNA helicase SUV3L, mitochondrial-like	
SNP_45706_A_56687825	NC_021165.1	Ca_Kabuli_Chr06	56687825	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45707_A_56713252	NC_021165.1	Ca_Kabuli_Chr06	56713252	CC	GG	GG	INTRON	101488670	uncharacterized LOC101488670
SNP_45708_A_56713316	NC_021165.1	Ca_Kabuli_Chr06	56713316	TT	CC	CC	INTRON	101488670	uncharacterized LOC101488670
SNP_45709_A_56713374	NC_021165.1	Ca_Kabuli_Chr06	56713374	CC	TT	TT	INTRON	101488670	uncharacterized LOC101488670
SNP_45710_A_56720417	NC_021165.1	Ca_Kabuli_Chr06	56720417	GG	AA	AA	URR	101500578	stress-induced protein KIN2-like
SNP_45712_A_56728535	NC_021165.1	Ca_Kabuli_Chr06	56728535	TT	AA	AA	INTERGENIC		
SNP_45713_A_56728595	NC_021165.1	Ca_Kabuli_Chr06	56728595	AA	GG	GG	INTERGENIC		
SNP_45715_A_56728926	NC_021165.1	Ca_Kabuli_Chr06	56728926	TT	CC	CC	INTERGENIC		
SNP_45716_A_56769549	NC_021165.1	Ca_Kabuli_Chr06	56769549	GG	AA	AA	INTERGENIC		
SNP_45718_A_56812676	NC_021165.1	Ca_Kabuli_Chr06	56812676	TT	AA	AA	DRR	101503435	probable sodium-coupled neutral amino acid transporter 6
SNP_45719_A_56859370	NC_021165.1	Ca_Kabuli_Chr06	56859370	CC	TT	TT	INTRON	101504728	uncharacterized LOC101504728
SNP_45720_A_56883484	NC_021165.1	Ca_Kabuli_Chr06	56883484	TT	CC	CC	INTERGENIC		
SNP_45721_A_56964182	NC_021165.1	Ca_Kabuli_Chr06	56964182	CC	GG	GG	INTERGENIC		
SNP_45722_A_56982318	NC_021165.1	Ca_Kabuli_Chr06	56982318	AA	CC	CC	URR	101507218	uncharacterized protein At1g04910
SNP_45725_A_57093050	NC_021165.1	Ca_Kabuli_Chr06	57093050	GG	AA	AA	INTERGENIC		
SNP_45726_A_57114156	NC_021165.1	Ca_Kabuli_Chr06	57114156	AA	GG	GG	INTRON	101510842	probable tRNA (guanine(26)-N(2))-dimethyltransferase 1
SNP_45728_A_57136152	NC_021165.1	Ca_Kabuli_Chr06	57136152	AA	GG	GG	INTERGENIC		
SNP_45729_A_57136153	NC_021165.1	Ca_Kabuli_Chr06	57136153	AA	CC	CC	INTERGENIC		
SNP_45730_A_57138536	NC_021165.1	Ca_Kabuli_Chr06	57138536	TT	CC	CC	INTERGENIC		
SNP_45731_A_57138577	NC_021165.1	Ca_Kabuli_Chr06	57138577	GG	AA	AA	INTERGENIC		
SNP_45732_A_57144221	NC_021165.1	Ca_Kabuli_Chr06	57144221	TT	CC	CC	INTERGENIC		
SNP_45733_A_57144243	NC_021165.1	Ca_Kabuli_Chr06	57144243	TT	CC	CC	INTERGENIC		
SNP_45734_A_57144255	NC_021165.1	Ca_Kabuli_Chr06	57144255	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45735_A_57160887	NC_021165.1	Ca_Kabuli_Chr06	57160887	TT	CC	CC	INTERGENIC		
SNP_45736_A_57160889	NC_021165.1	Ca_Kabuli_Chr06	57160889	TT	CC	CC	INTERGENIC		
SNP_45737_A_57172921	NC_021165.1	Ca_Kabuli_Chr06	57172921	CC	TT	TT	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45738_A_57173063	NC_021165.1	Ca_Kabuli_Chr06	57173063	TT	CC	CC	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45739_A_57173072	NC_021165.1	Ca_Kabuli_Chr06	57173072	GG	AA	AA	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45740_A_57173082	NC_021165.1	Ca_Kabuli_Chr06	57173082	AA	TT	TT	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45741_A_57173435	NC_021165.1	Ca_Kabuli_Chr06	57173435	GG	AA	AA	SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45742_A_57173513	NC_021165.1	Ca_Kabuli_Chr06	57173513	CC	TT	TT	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45743_A_57173517	NC_021165.1	Ca_Kabuli_Chr06	57173517	TT	AA	AA	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45744_A_57173520	NC_021165.1	Ca_Kabuli_Chr06	57173520	CC	AA	AA	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45745_A_57173530	NC_021165.1	Ca_Kabuli_Chr06	57173530	GG	CC	CC	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45746_A_57173535	NC_021165.1	Ca_Kabuli_Chr06	57173535	CC	TT	TT	SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45747_A_57173536	NC_021165.1	Ca_Kabuli_Chr06	57173536	AA	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45748_A_57173556	NC_021165.1	Ca_Kabuli_Chr06	57173556	GG	AA	AA	SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45749_A_57173638	NC_021165.1	Ca_Kabuli_Chr06	57173638	AA	CC	CC	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45750_A_57173648	NC_021165.1	Ca_Kabuli_Chr06	57173648	CC	TT	TT	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45751_A_57173652	NC_021165.1	Ca_Kabuli_Chr06	57173652	AA	CC	CC	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45752_A_57173657	NC_021165.1	Ca_Kabuli_Chr06	57173657	AA	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45753_A_57173671	NC_021165.1	Ca_Kabuli_Chr06	57173671	AA	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45754_A_57173684	NC_021165.1	Ca_Kabuli_Chr06	57173684	AA	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45755_A_57173688	NC_021165.1	Ca_Kabuli_Chr06	57173688	AA	CC	CC	SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45756_A_57173695	NC_021165.1	Ca_Kabuli_Chr06	57173695	AA	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45757_A_57173882	NC_021165.1	Ca_Kabuli_Chr06	57173882	CC	GG	GG	NON_SYNONYMOUS_CODING	101513417	phenolic glucoside malonyltransferase 1-like
SNP_45758_A_57184385	NC_021165.1	Ca_Kabuli_Chr06	57184385	AA	TT	TT	DRR	101513730	receptor-like protein kinase FERONIA
SNP_45759_A_57252809	NC_021165.1	Ca_Kabuli_Chr06	57252809	GG	AA	AA	INTERGENIC		
SNP_45760_A_57402865	NC_021165.1	Ca_Kabuli_Chr06	57402865	CC	TT	TT	DRR	101495043	endonuclease III homolog 1, chloroplastic
SNP_45761_A_57425772	NC_021165.1	Ca_Kabuli_Chr06	57425772	AA	CC	CC	INTRON	101495369	uncharacterized LOC101495369
SNP_45762_A_57483795	NC_021165.1	Ca_Kabuli_Chr06	57483795	TT	GG	GG	INTERGENIC		
SNP_45763_A_57488358	NC_021165.1	Ca_Kabuli_Chr06	57488358	TT	GG	GG	INTERGENIC		
SNP_45764_A_57488564	NC_021165.1	Ca_Kabuli_Chr06	57488564	AA	CC	CC	INTERGENIC		
SNP_45765_A_57488978	NC_021165.1	Ca_Kabuli_Chr06	57488978	TT	CC	CC	INTERGENIC		
SNP_45766_A_57528249	NC_021165.1	Ca_Kabuli_Chr06	57528249	AA	GG	GG	DRR	101498102	calmodulin-like protein 3
SNP_45767_A_57528252	NC_021165.1	Ca_Kabuli_Chr06	57528252	AA	CC	CC	DRR	101498102	calmodulin-like protein 3
SNP_45768_A_57554123	NC_021165.1	Ca_Kabuli_Chr06	57554123	CC	TT	TT	URR	101499101	B-box zinc finger protein 24
SNP_45769_A_57608251	NC_021165.1	Ca_Kabuli_Chr06	57608251	GG	CC	CC	INTERGENIC		
SNP_45770_A_57608265	NC_021165.1	Ca_Kabuli_Chr06	57608265	GG	AA	AA	INTERGENIC		
SNP_45771_A_57628013	NC_021165.1	Ca_Kabuli_Chr06	57628013	GG	AA	AA	URR	101501628	calreticulin-3
SNP_45772_A_57679342	NC_021165.1	Ca_Kabuli_Chr06	57679342	TT	GG	GG	DRR	101504949	GTPase-activating protein GYP1-like
SNP_45773_A_57679343	NC_021165.1	Ca_Kabuli_Chr06	57679343	GG	TT	TT	DRR	101504949	GTPase-activating protein GYP1-like
SNP_45774_A_57744902	NC_021165.1	Ca_Kabuli_Chr06	57744902	TT	AA	AA	DRR	101509219	serine/threonine-protein kinase SMG1-like
SNP_45775_A_57744903	NC_021165.1	Ca_Kabuli_Chr06	57744903	CC	TT	TT	DRR	101509219	serine/threonine-protein kinase SMG1-like
SNP_45776_A_57953619	NC_021165.1	Ca_Kabuli_Chr06	57953619	GG	CC	CC	INTERGENIC		
SNP_45777_A_58017545	NC_021165.1	Ca_Kabuli_Chr06	58017545	GG	TT	TT	INTERGENIC		
SNP_45779_A_58095253	NC_021165.1	Ca_Kabuli_Chr06	58095253	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45780_A_58129099	NC_021165.1	Ca_Kabuli_Chr06	58129099	GG	TT	TT	SPLICE_SITE_REGION	101501727	uncharacterized protein PB18E9.04c-like
SNP_45781_A_58253859	NC_021165.1	Ca_Kabuli_Chr06	58253859	AA	CC	CC	DRR	101506557	glycine-rich RNA-binding, abscisic acid-inducible protein-like
SNP_45782_A_58332855	NC_021165.1	Ca_Kabuli_Chr06	58332855	TT	CC	CC	INTERGENIC		
SNP_45783_A_58342972	NC_021165.1	Ca_Kabuli_Chr06	58342972	AA	GG	GG	INTERGENIC		
SNP_45784_A_58372173	NC_021165.1	Ca_Kabuli_Chr06	58372173	AA	GG	GG	URR	101508382	isoflavone reductase-like protein
SNP_45785_A_58372181	NC_021165.1	Ca_Kabuli_Chr06	58372181	AA	CC	CC	URR	101508382	isoflavone reductase-like protein
SNP_45787_A_58405031	NC_021165.1	Ca_Kabuli_Chr06	58405031	TT	CC	CC	NON_SYNONYMOUS_CODING	101500035	protein FAR-RED ELONGATED HYPOCOTYL 3-like
SNP_45790_A_58678049	NC_021165.1	Ca_Kabuli_Chr06	58678049	GG	AA	AA	INTERGENIC		
SNP_45791_A_58682755	NC_021165.1	Ca_Kabuli_Chr06	58682755	AA	GG	GG	INTRON	101492352	kinesin-related protein 11
SNP_45792_A_58695085	NC_021165.1	Ca_Kabuli_Chr06	58695085	GG	TT	TT	INTERGENIC		
SNP_45793_A_58716139	NC_021165.1	Ca_Kabuli_Chr06	58716139	GG	AA	AA	INTERGENIC		
SNP_45794_A_58739789	NC_021165.1	Ca_Kabuli_Chr06	58739789	GG	TT	TT	INTERGENIC		
SNP_45795_A_58781276	NC_021165.1	Ca_Kabuli_Chr06	58781276	GG	AA	AA	URR	101495269	nostrin-like
SNP_45796_A_58781581	NC_021165.1	Ca_Kabuli_Chr06	58781581	GG	AA	AA	URR	101495269	nostrin-like
SNP_45797_A_58781646	NC_021165.1	Ca_Kabuli_Chr06	58781646	GG	AA	AA	URR	101495269	nostrin-like
SNP_45798_A_58782767	NC_021165.1	Ca_Kabuli_Chr06	58782767	GG	AA	AA	URR	101495269	nostrin-like
SNP_45799_A_58783420	NC_021165.1	Ca_Kabuli_Chr06	58783420	AA	TT	TT	INTERGENIC		
SNP_45800_A_58783421	NC_021165.1	Ca_Kabuli_Chr06	58783421	AA	TT	TT	INTERGENIC		
SNP_45801_A_58784122	NC_021165.1	Ca_Kabuli_Chr06	58784122	TT	AA	AA	INTERGENIC		
SNP_45802_A_58784133	NC_021165.1	Ca_Kabuli_Chr06	58784133	GG	TT	TT	INTERGENIC		
SNP_45803_A_58784616	NC_021165.1	Ca_Kabuli_Chr06	58784616	TT	AA	AA	INTERGENIC		
SNP_45804_A_58784917	NC_021165.1	Ca_Kabuli_Chr06	58784917	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45805_A_58785463	NC_021165.1	Ca_Kabuli_Chr06	58785463	TT	CC	CC	INTERGENIC		
SNP_45806_A_58786348	NC_021165.1	Ca_Kabuli_Chr06	58786348	TT	GG	GG	DRR	101502589	myb-like protein M
SNP_45807_A_58786353	NC_021165.1	Ca_Kabuli_Chr06	58786353	TT	CC	CC	DRR	101502589	myb-like protein M
SNP_45808_A_58787940	NC_021165.1	Ca_Kabuli_Chr06	58787940	GG	AA	AA	SYNONYMOUS_CODING	101502589	myb-like protein M
SNP_45809_A_58787944	NC_021165.1	Ca_Kabuli_Chr06	58787944	CC	GG	GG	NON_SYNONYMOUS_CODING	101502589	myb-like protein M
SNP_45810_A_58788005	NC_021165.1	Ca_Kabuli_Chr06	58788005	GG	AA	AA	NON_SYNONYMOUS_CODING	101502589	myb-like protein M
SNP_45811_A_58789675	NC_021165.1	Ca_Kabuli_Chr06	58789675	GG	AA	AA	URR	101502589	myb-like protein M
SNP_45812_A_58790175	NC_021165.1	Ca_Kabuli_Chr06	58790175	AA	GG	GG	URR	101502589	myb-like protein M
SNP_45813_A_58790179	NC_021165.1	Ca_Kabuli_Chr06	58790179	CC	TT	TT	URR	101502589	myb-like protein M
SNP_45814_A_58792374	NC_021165.1	Ca_Kabuli_Chr06	58792374	TT	CC	CC	INTERGENIC		
SNP_45815_A_58792375	NC_021165.1	Ca_Kabuli_Chr06	58792375	TT	CC	CC	INTERGENIC		
SNP_45816_A_58792435	NC_021165.1	Ca_Kabuli_Chr06	58792435	TT	CC	CC	INTERGENIC		
SNP_45817_A_58792437	NC_021165.1	Ca_Kabuli_Chr06	58792437	GG	AA	AA	INTERGENIC		
SNP_45818_A_58792729	NC_021165.1	Ca_Kabuli_Chr06	58792729	GG	AA	AA	INTERGENIC		
SNP_45819_A_58794250	NC_021165.1	Ca_Kabuli_Chr06	58794250	TT	AA	AA	INTERGENIC		
SNP_45820_A_58794377	NC_021165.1	Ca_Kabuli_Chr06	58794377	GG	AA	AA	INTERGENIC		
SNP_45821_A_58799662	NC_021165.1	Ca_Kabuli_Chr06	58799662	GG	AA	AA	INTERGENIC		
SNP_45822_A_58800991	NC_021165.1	Ca_Kabuli_Chr06	58800991	CC	TT	TT	INTERGENIC		
SNP_45823_A_58800992	NC_021165.1	Ca_Kabuli_Chr06	58800992	TT	CC	CC	INTERGENIC		
SNP_45824_A_58802424	NC_021165.1	Ca_Kabuli_Chr06	58802424	TT	CC	CC	INTERGENIC		
SNP_45825_A_58802777	NC_021165.1	Ca_Kabuli_Chr06	58802777	TT	CC	CC	INTERGENIC		
SNP_45826_A_58811499	NC_021165.1	Ca_Kabuli_Chr06	58811499	AA	GG	GG	URR	101496024	GATA transcription factor 7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45827_A_58820063	NC_021165.1	Ca_Kabuli_Chr06	58820063	TT	CC	CC	INTERGENIC		
SNP_45828_A_58821587	NC_021165.1	Ca_Kabuli_Chr06	58821587	AA	GG	GG	INTERGENIC		
SNP_45829_A_58821660	NC_021165.1	Ca_Kabuli_Chr06	58821660	CC	AA	AA	INTERGENIC		
SNP_45830_A_58829022	NC_021165.1	Ca_Kabuli_Chr06	58829022	AA	TT	TT	DRR	101497227	fructose-bisphosphate aldolase 1, chloroplastic
SNP_45832_A_58854303	NC_021165.1	Ca_Kabuli_Chr06	58854303	AA	GG	GG	INTERGENIC		
SNP_45833_A_58897252	NC_021165.1	Ca_Kabuli_Chr06	58897252	CC	TT	TT	SYNONYMOUS_CODING	101498538	V-type proton ATPase 16 kDa proteolipid subunit
SNP_45834_A_58914916	NC_021165.1	Ca_Kabuli_Chr06	58914916	GG	AA	AA	URR	101499200	polyprenol reductase 2
SNP_45835_A_58922664	NC_021165.1	Ca_Kabuli_Chr06	58922664	CC	GG	GG	INTERGENIC		
SNP_45836_A_58922667	NC_021165.1	Ca_Kabuli_Chr06	58922667	AA	GG	GG	INTERGENIC		
SNP_45838_A_59058564	NC_021165.1	Ca_Kabuli_Chr06	59058564	AA	TT	TT	INTERGENIC		
SNP_45839_A_59058643	NC_021165.1	Ca_Kabuli_Chr06	59058643	GG	AA	AA	INTERGENIC		
SNP_45840_A_59059841	NC_021165.1	Ca_Kabuli_Chr06	59059841	TT	CC	CC	INTERGENIC		
SNP_45841_A_59059905	NC_021165.1	Ca_Kabuli_Chr06	59059905	TT	CC	CC	INTERGENIC		
SNP_45842_A_59059944	NC_021165.1	Ca_Kabuli_Chr06	59059944	CC	AA	AA	INTERGENIC		
SNP_45844_A_59060216	NC_021165.1	Ca_Kabuli_Chr06	59060216	CC	TT	TT	INTERGENIC		
SNP_45845_A_59062020	NC_021165.1	Ca_Kabuli_Chr06	59062020	CC	AA	AA	DRR	101506558	ATP synthase subunit epsilon, mitochondrial
SNP_45847_A_59100409	NC_021165.1	Ca_Kabuli_Chr06	59100409	CC	TT	TT	INTERGENIC		
SNP_45848_A_59133132	NC_021165.1	Ca_Kabuli_Chr06	59133132	AA	GG	GG	INTERGENIC		
SNP_45849_A_59141216	NC_021165.1	Ca_Kabuli_Chr06	59141216	TT	AA	AA	INTERGENIC		
SNP_45850_A_59170585	NC_021165.1	Ca_Kabuli_Chr06	59170585	TT	GG	GG	URR	101509868	serine/threonine-protein kinase BLUS1
SNP_45853_A_59209042	NC_021165.1	Ca_Kabuli_Chr06	59209042	CC	TT	TT	INTRON	101512763	7-dehydrocholesterol reductase
SNP_45854_A_59265767	NC_021165.1	Ca_Kabuli_Chr06	59265767	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45857_A_59277491	NC_021165.1	Ca_Kabuli_Chr06	59277491	GG	AA	AA	INTERGENIC		
SNP_45859_A_59355599	NC_021165.1	Ca_Kabuli_Chr06	59355599	AA	GG	GG	INTERGENIC		
SNP_45860_A_59381422	NC_021165.1	Ca_Kabuli_Chr06	59381422	TT	CC	CC	DRR	101488799	auxin-induced protein 6B
SNP_45862_A_59424858	NC_021165.1	Ca_Kabuli_Chr06	59424858	GG	AA	AA	INTERGENIC		
SNP_45863_A_59434642	NC_021165.1	Ca_Kabuli_Chr06	59434642	GG	AA	AA	INTERGENIC		
SNP_45864_A_59443499	NC_021165.1	Ca_Kabuli_Chr06	59443499	TT	GG	GG	INTERGENIC		
SNP_45865_A_59443512	NC_021165.1	Ca_Kabuli_Chr06	59443512	AA	GG	GG	INTERGENIC		
SNP_45866_A_59443549	NC_021165.1	Ca_Kabuli_Chr06	59443549	GG	AA	AA	INTERGENIC		
SNP_45867_A_59443572	NC_021165.1	Ca_Kabuli_Chr06	59443572	CC	TT	TT	INTERGENIC		
SNP_45868_A_59443578	NC_021165.1	Ca_Kabuli_Chr06	59443578	TT	GG	GG	INTERGENIC		
SNP_45869_A_59443865	NC_021165.1	Ca_Kabuli_Chr06	59443865	TT	AA	AA	INTERGENIC		
SNP_45870_A_59443931	NC_021165.1	Ca_Kabuli_Chr06	59443931	CC	TT	TT	INTERGENIC		
SNP_45871_A_59444298	NC_021165.1	Ca_Kabuli_Chr06	59444298	GG	CC	CC	INTERGENIC		
SNP_45872_A_59444321	NC_021165.1	Ca_Kabuli_Chr06	59444321	CC	TT	TT	INTERGENIC		
SNP_45873_A_59444324	NC_021165.1	Ca_Kabuli_Chr06	59444324	TT	CC	CC	INTERGENIC		
SNP_45874_A_59444340	NC_021165.1	Ca_Kabuli_Chr06	59444340	TT	CC	CC	INTERGENIC		
SNP_45875_A_59450271	NC_021165.1	Ca_Kabuli_Chr06	59450271	AA	CC	CC	INTERGENIC		
SNP_45876_A_70169	NC_021166.1	Ca_Kabuli_Chr07	70169	AA	TT	TT	INTERGENIC		
SNP_45877_A_165596	NC_021166.1	Ca_Kabuli_Chr07	165596	CC	TT	TT	INTRON	101503883	glucan endo-1,3-beta-glucosidase 12-like
SNP_45879_A_180470	NC_021166.1	Ca_Kabuli_Chr07	180470	TT	AA	AA	INTERGENIC		
SNP_45880_A_180542	NC_021166.1	Ca_Kabuli_Chr07	180542	CC	TT	TT	INTERGENIC		
SNP_45881_A_180806	NC_021166.1	Ca_Kabuli_Chr07	180806	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45882_A_180910	NC_021166.1	Ca_Kabuli_Chr07	180910	AA	GG	GG	INTERGENIC		
SNP_45883_A_193416	NC_021166.1	Ca_Kabuli_Chr07	193416	AA	GG	GG	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45884_A_193418	NC_021166.1	Ca_Kabuli_Chr07	193418	CC	TT	TT	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45885_A_193533	NC_021166.1	Ca_Kabuli_Chr07	193533	TT	AA	AA	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45886_A_193945	NC_021166.1	Ca_Kabuli_Chr07	193945	TT	CC	CC	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45887_A_193947	NC_021166.1	Ca_Kabuli_Chr07	193947	TT	AA	AA	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45888_A_197831	NC_021166.1	Ca_Kabuli_Chr07	197831	GG	TT	TT	INTRON	101504537	glucan endo-1,3-beta-glucosidase 4-like
SNP_45889_A_222179	NC_021166.1	Ca_Kabuli_Chr07	222179	GG	AA	AA	URR	101501630	scarecrow-like protein 13
SNP_45890_A_226092	NC_021166.1	Ca_Kabuli_Chr07	226092	AA	GG	GG	URR	101410554	transfer RNA leucine (anticodon CAG)
SNP_45891_A_256459	NC_021166.1	Ca_Kabuli_Chr07	256459	AA	GG	GG	INTERGENIC		
SNP_45892_A_283933	NC_021166.1	Ca_Kabuli_Chr07	283933	TT	CC	CC	INTERGENIC		
SNP_45893_A_283935	NC_021166.1	Ca_Kabuli_Chr07	283935	TT	CC	CC	INTERGENIC		
SNP_45894_A_284823	NC_021166.1	Ca_Kabuli_Chr07	284823	GG	TT	TT	INTERGENIC		
SNP_45895_A_324377	NC_021166.1	Ca_Kabuli_Chr07	324377	GG	TT	TT	INTERGENIC		
SNP_45896_A_329132	NC_021166.1	Ca_Kabuli_Chr07	329132	CC	TT	TT	INTERGENIC		
SNP_45899_A_357551	NC_021166.1	Ca_Kabuli_Chr07	357551	GG	AA	AA	INTERGENIC		
SNP_45900_A_357556	NC_021166.1	Ca_Kabuli_Chr07	357556	TT	CC	CC	INTERGENIC		
SNP_45901_A_357667	NC_021166.1	Ca_Kabuli_Chr07	357667	TT	CC	CC	INTERGENIC		
SNP_45902_A_357678	NC_021166.1	Ca_Kabuli_Chr07	357678	TT	CC	CC	INTERGENIC		
SNP_45903_A_357690	NC_021166.1	Ca_Kabuli_Chr07	357690	GG	AA	AA	INTERGENIC		
SNP_45904_A_357764	NC_021166.1	Ca_Kabuli_Chr07	357764	TT	GG	GG	INTERGENIC		
SNP_45905_A_357813	NC_021166.1	Ca_Kabuli_Chr07	357813	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_45906_A_357840	NC_021166.1	Ca_Kabuli_Chr07	357840	AA	TT	TT	INTERGENIC			
SNP_45907_A_357940	NC_021166.1	Ca_Kabuli_Chr07	357940	AA	GG	GG	INTERGENIC			
SNP_45908_A_357949	NC_021166.1	Ca_Kabuli_Chr07	357949	TT	CC	CC	INTERGENIC			
SNP_45909_A_434582	NC_021166.1	Ca_Kabuli_Chr07	434582	GG	AA	AA	INTERGENIC			
SNP_45910_A_434585	NC_021166.1	Ca_Kabuli_Chr07	434585	GG	AA	AA	INTERGENIC			
SNP_45911_A_450223	NC_021166.1	Ca_Kabuli_Chr07	450223	AA	GG	GG	INTERGENIC			
SNP_45912_A_457805	NC_021166.1	Ca_Kabuli_Chr07	457805	TT	AA	AA	INTERGENIC			
SNP_45913_A_457813	NC_021166.1	Ca_Kabuli_Chr07	457813	TT	CC	CC	INTERGENIC			
SNP_45914_A_479815	NC_021166.1	Ca_Kabuli_Chr07	479815	AA	GG	GG	INTERGENIC			
SNP_45915_A_479820	NC_021166.1	Ca_Kabuli_Chr07	479820	GG	AA	AA	INTERGENIC			
SNP_45916_A_496615	NC_021166.1	Ca_Kabuli_Chr07	496615	AA	TT	TT	INTERGENIC			
SNP_45917_A_496864	NC_021166.1	Ca_Kabuli_Chr07	496864	CC	AA	AA	INTERGENIC			
SNP_45918_A_496944	NC_021166.1	Ca_Kabuli_Chr07	496944	AA	TT	TT	INTERGENIC			
SNP_45919_A_503257	NC_021166.1	Ca_Kabuli_Chr07	503257	CC	TT	TT	INTERGENIC			
SNP_45920_A_503277	NC_021166.1	Ca_Kabuli_Chr07	503277	CC	AA	AA	INTERGENIC			
SNP_45922_A_510394	NC_021166.1	Ca_Kabuli_Chr07	510394	CC	TT	TT	INTERGENIC			
SNP_45923_A_521278	NC_021166.1	Ca_Kabuli_Chr07	521278	AA	GG	GG	INTERGENIC			
SNP_45925_A_542577	NC_021166.1	Ca_Kabuli_Chr07	542577	CC	AA	AA	INTERGENIC			
SNP_45926_A_563789	NC_021166.1	Ca_Kabuli_Chr07	563789	GG	AA	AA	INTERGENIC			
SNP_45927_A_570669	NC_021166.1	Ca_Kabuli_Chr07	570669	AA	TT	TT	INTERGENIC			
SNP_45928_A_570748	NC_021166.1	Ca_Kabuli_Chr07	570748	AA	TT	TT	INTERGENIC			
SNP_45929_A_570802	NC_021166.1	Ca_Kabuli_Chr07	570802	GG	AA	AA	INTERGENIC			

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SNP_45931_A_585465	NC_021166.1	Ca_Kabuli_Chr07	585465	GG	TT	TT	INTERGENIC			
SNP_45932_A_585483	NC_021166.1	Ca_Kabuli_Chr07	585483	AA	GG	GG	INTERGENIC			
SNP_45933_A_585491	NC_021166.1	Ca_Kabuli_Chr07	585491	TT	GG	GG	INTERGENIC			
SNP_45934_A_585500	NC_021166.1	Ca_Kabuli_Chr07	585500	CC	TT	TT	INTERGENIC			
SNP_45935_A_585517	NC_021166.1	Ca_Kabuli_Chr07	585517	TT	CC	CC	INTERGENIC			
SNP_45936_A_586900	NC_021166.1	Ca_Kabuli_Chr07	586900	TT	GG	GG	INTERGENIC			
SNP_45937_A_586925	NC_021166.1	Ca_Kabuli_Chr07	586925	AA	GG	GG	INTERGENIC			
SNP_45938_A_586963	NC_021166.1	Ca_Kabuli_Chr07	586963	CC	TT	TT	INTERGENIC			
SNP_45940_A_599200	NC_021166.1	Ca_Kabuli_Chr07	599200	GG	AA	AA	INTERGENIC			
SNP_45941_A_599240	NC_021166.1	Ca_Kabuli_Chr07	599240	AA	GG	GG	INTERGENIC			
SNP_45942_A_599378	NC_021166.1	Ca_Kabuli_Chr07	599378	TT	CC	CC	INTERGENIC			
SNP_45943_A_599426	NC_021166.1	Ca_Kabuli_Chr07	599426	AA	TT	TT	INTERGENIC			
SNP_45944_A_599513	NC_021166.1	Ca_Kabuli_Chr07	599513	AA	GG	GG	INTERGENIC			
SNP_45945_A_599531	NC_021166.1	Ca_Kabuli_Chr07	599531	GG	AA	AA	INTERGENIC			
SNP_45946_A_599600	NC_021166.1	Ca_Kabuli_Chr07	599600	CC	TT	TT	INTERGENIC			
SNP_45947_A_606598	NC_021166.1	Ca_Kabuli_Chr07	606598	GG	AA	AA	INTERGENIC			
SNP_45948_A_639500	NC_021166.1	Ca_Kabuli_Chr07	639500	AA	CC	CC	INTERGENIC			
SNP_45949_A_639592	NC_021166.1	Ca_Kabuli_Chr07	639592	AA	CC	CC	INTERGENIC			
SNP_45950_A_639607	NC_021166.1	Ca_Kabuli_Chr07	639607	AA	GG	GG	INTERGENIC			
SNP_45951_A_660874	NC_021166.1	Ca_Kabuli_Chr07	660874	TT	CC	CC	DRR	101508905	F-box protein CPR30-like	
SNP_45952_A_687094	NC_021166.1	Ca_Kabuli_Chr07	687094	GG	AA	AA	INTERGENIC			
SNP_45953_A_760433	NC_021166.1	Ca_Kabuli_Chr07	760433	TT	CC	CC	DRR	101488800	tropinone reductase-like 3	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45954_A_760480	NC_021166.1	Ca_Kabuli_Chr07	760480	GG	AA	AA	DRR	101488800	tropinone reductase-like 3
SNP_45955_A_760488	NC_021166.1	Ca_Kabuli_Chr07	760488	TT	CC	CC	DRR	101488800	tropinone reductase-like 3
SNP_45956_A_760503	NC_021166.1	Ca_Kabuli_Chr07	760503	CC	AA	AA	DRR	101488800	tropinone reductase-like 3
SNP_45958_A_760533	NC_021166.1	Ca_Kabuli_Chr07	760533	CC	AA	AA	DRR	101488800	tropinone reductase-like 3
SNP_45959_A_760557	NC_021166.1	Ca_Kabuli_Chr07	760557	CC	TT	TT	DRR	101488800	tropinone reductase-like 3
SNP_45960_A_760568	NC_021166.1	Ca_Kabuli_Chr07	760568	GG	TT	TT	DRR	101488800	tropinone reductase-like 3
SNP_45961_A_760705	NC_021166.1	Ca_Kabuli_Chr07	760705	CC	GG	GG	DRR	101488800	tropinone reductase-like 3
SNP_45963_A_791856	NC_021166.1	Ca_Kabuli_Chr07	791856	GG	AA	AA	URR	101490848	E3 ubiquitin-protein ligase RFWD2
SNP_45964_A_818977	NC_021166.1	Ca_Kabuli_Chr07	818977	CC	TT	TT	INTERGENIC		
SNP_45965_A_819041	NC_021166.1	Ca_Kabuli_Chr07	819041	GG	AA	AA	INTERGENIC		
SNP_45966_A_819044	NC_021166.1	Ca_Kabuli_Chr07	819044	CC	TT	TT	INTERGENIC		
SNP_45967_A_819068	NC_021166.1	Ca_Kabuli_Chr07	819068	TT	CC	CC	INTERGENIC		
SNP_45968_A_819073	NC_021166.1	Ca_Kabuli_Chr07	819073	TT	CC	CC	INTERGENIC		
SNP_45969_A_819100	NC_021166.1	Ca_Kabuli_Chr07	819100	AA	TT	TT	INTERGENIC		
SNP_45970_A_819130	NC_021166.1	Ca_Kabuli_Chr07	819130	TT	CC	CC	INTERGENIC		
SNP_45971_A_819220	NC_021166.1	Ca_Kabuli_Chr07	819220	AA	CC	CC	INTERGENIC		
SNP_45972_A_819261	NC_021166.1	Ca_Kabuli_Chr07	819261	GG	AA	AA	INTERGENIC		
SNP_45973_A_819270	NC_021166.1	Ca_Kabuli_Chr07	819270	TT	CC	CC	INTERGENIC		
SNP_45974_A_819310	NC_021166.1	Ca_Kabuli_Chr07	819310	AA	GG	GG	INTERGENIC		
SNP_45975_A_819319	NC_021166.1	Ca_Kabuli_Chr07	819319	AA	TT	TT	INTERGENIC		
SNP_45976_A_819325	NC_021166.1	Ca_Kabuli_Chr07	819325	AA	CC	CC	INTERGENIC		
SNP_45977_A_819332	NC_021166.1	Ca_Kabuli_Chr07	819332	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_45978_A_819333	NC_021166.1	Ca_Kabuli_Chr07	819333	TT	AA	AA	INTERGENIC		
SNP_45979_A_819352	NC_021166.1	Ca_Kabuli_Chr07	819352	AA	GG	GG	INTERGENIC		
SNP_45980_A_819367	NC_021166.1	Ca_Kabuli_Chr07	819367	GG	AA	AA	INTERGENIC		
SNP_45982_A_819513	NC_021166.1	Ca_Kabuli_Chr07	819513	TT	CC	CC	INTERGENIC		
SNP_45983_A_819663	NC_021166.1	Ca_Kabuli_Chr07	819663	AA	GG	GG	INTERGENIC		
SNP_45984_A_836079	NC_021166.1	Ca_Kabuli_Chr07	836079	AA	GG	GG	URR	101491793	uncharacterized protein At1g04910
SNP_45985_A_885183	NC_021166.1	Ca_Kabuli_Chr07	885183	CC	TT	TT	INTERGENIC		
SNP_45986_A_905517	NC_021166.1	Ca_Kabuli_Chr07	905517	GG	TT	TT	INTERGENIC		
SNP_45987_A_940627	NC_021166.1	Ca_Kabuli_Chr07	940627	TT	AA	AA	INTERGENIC		
SNP_45988_A_954137	NC_021166.1	Ca_Kabuli_Chr07	954137	AA	TT	TT	DRR	101496027	uncharacterized LOC101496027
SNP_45989_A_978516	NC_021166.1	Ca_Kabuli_Chr07	978516	TT	CC	CC	DRR	101497452	glucan endo-1,3-beta-glucosidase 1
SNP_45990_A_1003420	NC_021166.1	Ca_Kabuli_Chr07	1003420	CC	TT	TT	INTERGENIC		
SNP_45991_A_1018531	NC_021166.1	Ca_Kabuli_Chr07	1018531	TT	CC	CC	URR	101499729	uncharacterized LOC101499729
SNP_45992_A_1018540	NC_021166.1	Ca_Kabuli_Chr07	1018540	TT	CC	CC	URR	101499729	uncharacterized LOC101499729
SNP_45993_A_1018557	NC_021166.1	Ca_Kabuli_Chr07	1018557	AA	TT	TT	URR	101499729	uncharacterized LOC101499729
SNP_45994_A_1018676	NC_021166.1	Ca_Kabuli_Chr07	1018676	AA	GG	GG	INTERGENIC		
SNP_45996_A_1018756	NC_021166.1	Ca_Kabuli_Chr07	1018756	GG	AA	AA	INTERGENIC		
SNP_45998_A_1018840	NC_021166.1	Ca_Kabuli_Chr07	1018840	CC	AA	AA	INTERGENIC		
SNP_45999_A_1019099	NC_021166.1	Ca_Kabuli_Chr07	1019099	TT	AA	AA	INTERGENIC		
SNP_46000_A_1019156	NC_021166.1	Ca_Kabuli_Chr07	1019156	AA	GG	GG	INTERGENIC		
SNP_46001_A_1019410	NC_021166.1	Ca_Kabuli_Chr07	1019410	AA	GG	GG	INTERGENIC		
SNP_46002_A_1019455	NC_021166.1	Ca_Kabuli_Chr07	1019455	AA	GG	GG	INTERGENIC		

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SNP_46003_A_1019477	NC_021166.1	Ca_Kabuli_Chr07	1019477	TT	CC	CC	INTERGENIC			
SNP_46004_A_1019510	NC_021166.1	Ca_Kabuli_Chr07	1019510	AA	GG	GG	INTERGENIC			
SNP_46005_A_1019698	NC_021166.1	Ca_Kabuli_Chr07	1019698	AA	GG	GG	INTERGENIC			
SNP_46006_A_1019724	NC_021166.1	Ca_Kabuli_Chr07	1019724	AA	TT	TT	INTERGENIC			
SNP_46007_A_1019764	NC_021166.1	Ca_Kabuli_Chr07	1019764	GG	AA	AA	INTERGENIC			
SNP_46008_A_1019768	NC_021166.1	Ca_Kabuli_Chr07	1019768	GG	CC	CC	INTERGENIC			
SNP_46009_A_1019770	NC_021166.1	Ca_Kabuli_Chr07	1019770	AA	TT	TT	INTERGENIC			
SNP_46010_A_1019788	NC_021166.1	Ca_Kabuli_Chr07	1019788	CC	AA	AA	INTERGENIC			
SNP_46011_A_1019808	NC_021166.1	Ca_Kabuli_Chr07	1019808	CC	TT	TT	INTERGENIC			
SNP_46013_A_1042316	NC_021166.1	Ca_Kabuli_Chr07	1042316	CC	TT	TT	URR		101500893	peroxidase 42-like
SNP_46014_A_1069131	NC_021166.1	Ca_Kabuli_Chr07	1069131	AA	CC	CC	INTERGENIC			
SNP_46015_A_1176364	NC_021166.1	Ca_Kabuli_Chr07	1176364	CC	TT	TT	URR		101505054	DEAD-box ATP-dependent RNA helicase 58, chloroplastic
SNP_46018_A_1244387	NC_021166.1	Ca_Kabuli_Chr07	1244387	TT	CC	CC	INTERGENIC			
SNP_46019_A_1244943	NC_021166.1	Ca_Kabuli_Chr07	1244943	AA	GG	GG	INTERGENIC			
SNP_46021_A_1256389	NC_021166.1	Ca_Kabuli_Chr07	1256389	TT	CC	CC	URR		101510516	protein RTF2 homolog
SNP_46022_A_1268068	NC_021166.1	Ca_Kabuli_Chr07	1268068	GG	AA	AA	INTERGENIC			
SNP_46023_A_1303792	NC_021166.1	Ca_Kabuli_Chr07	1303792	GG	AA	AA	INTRON		101512019	RNA polymerase II C-terminal domain phosphatase-like 4
SNP_46025_A_1307928	NC_021166.1	Ca_Kabuli_Chr07	1307928	GG	AA	AA	URR		101512019	RNA polymerase II C-terminal domain phosphatase-like 4
SNP_46026_A_1307930	NC_021166.1	Ca_Kabuli_Chr07	1307930	GG	TT	TT	URR		101512019	RNA polymerase II C-terminal domain phosphatase-like 4
SNP_46027_A_1367452	NC_021166.1	Ca_Kabuli_Chr07	1367452	TT	AA	AA	URR		101514618	eukaryotic translation initiation factor 5A-2
SNP_46028_A_1385168	NC_021166.1	Ca_Kabuli_Chr07	1385168	TT	CC	CC	INTERGENIC			
SNP_46029_A_1418771	NC_021166.1	Ca_Kabuli_Chr07	1418771	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46030_A_1419207	NC_021166.1	Ca_Kabuli_Chr07	1419207	AA	GG	GG	INTERGENIC		
SNP_46031_A_1465830	NC_021166.1	Ca_Kabuli_Chr07	1465830	CC	TT	TT	DRR	101492018	F-box protein SKIP1
SNP_46032_A_1525930	NC_021166.1	Ca_Kabuli_Chr07	1525930	CC	AA	AA	INTERGENIC		
SNP_46033_A_1617991	NC_021166.1	Ca_Kabuli_Chr07	1617991	TT	CC	CC	DRR	101410575	transfer RNA alanine (anticodon AGC)
SNP_46034_A_1696007	NC_021166.1	Ca_Kabuli_Chr07	1696007	TT	CC	CC	URR	101501415	ATP synthase subunit gamma, mitochondrial
SNP_46038_A_2093688	NC_021166.1	Ca_Kabuli_Chr07	2093688	TT	CC	CC	INTRON	101488228	bifunctional dethiobiotin synthetase/7,8-diamino-pelargonic acid aminotransferase, mitochondrial
SNP_46040_A_2113660	NC_021166.1	Ca_Kabuli_Chr07	2113660	CC	TT	TT	URR	101490102	probable xyloglucan endotransglucosylase/hydrolase protein 23
SNP_46041_A_2139056	NC_021166.1	Ca_Kabuli_Chr07	2139056	AA	CC	CC	DRR	101504854	Zinc finger protein 2
SNP_46043_A_2168252	NC_021166.1	Ca_Kabuli_Chr07	2168252	AA	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46044_A_2168319	NC_021166.1	Ca_Kabuli_Chr07	2168319	AA	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46045_A_2168338	NC_021166.1	Ca_Kabuli_Chr07	2168338	TT	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46046_A_2168507	NC_021166.1	Ca_Kabuli_Chr07	2168507	GG	AA	AA	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46047_A_2168538	NC_021166.1	Ca_Kabuli_Chr07	2168538	CC	TT	TT	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46048_A_2169661	NC_021166.1	Ca_Kabuli_Chr07	2169661	AA	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46050_A_2169860	NC_021166.1	Ca_Kabuli_Chr07	2169860	CC	TT	TT	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46052_A_2169907	NC_021166.1	Ca_Kabuli_Chr07	2169907	GG	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46053_A_2169981	NC_021166.1	Ca_Kabuli_Chr07	2169981	AA	CC	CC	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46054_A_2170031	NC_021166.1	Ca_Kabuli_Chr07	2170031	CC	TT	TT	INTRON	101492799	mitochondrial outer membrane protein porin 6
SNP_46055_A_2193216	NC_021166.1	Ca_Kabuli_Chr07	2193216	CC	GG	GG	NON_SYNONYMOUS_CODING	101493673	probable mitochondrial chaperone BCS1-B
SNP_46056_A_2327126	NC_021166.1	Ca_Kabuli_Chr07	2327126	CC	TT	TT	INTERGENIC		
SNP_46059_A_2443292	NC_021166.1	Ca_Kabuli_Chr07	2443292	TT	AA	AA	INTERGENIC		
SNP_46061_A_2635726	NC_021166.1	Ca_Kabuli_Chr07	2635726	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46063_A_2642358	NC_021166.1	Ca_Kabuli_Chr07	2642358	TT	GG	GG	NON_SYNONYMOUS_CODING	101510302	uncharacterized LOC101510302
SNP_46064_A_2716581	NC_021166.1	Ca_Kabuli_Chr07	2716581	TT	AA	AA	INTERGENIC		
SNP_46065_A_2765174	NC_021166.1	Ca_Kabuli_Chr07	2765174	AA	GG	GG	INTERGENIC		
SNP_46066_A_2801369	NC_021166.1	Ca_Kabuli_Chr07	2801369	AA	GG	GG	INTERGENIC		
SNP_46067_A_2804016	NC_021166.1	Ca_Kabuli_Chr07	2804016	GG	AA	AA	INTERGENIC		
SNP_46068_A_2821086	NC_021166.1	Ca_Kabuli_Chr07	2821086	AA	GG	GG	INTERGENIC		
SNP_46069_A_2884577	NC_021166.1	Ca_Kabuli_Chr07	2884577	GG	CC	CC	URR	101493024	cytokinin dehydrogenase 3-like
SNP_46070_A_2887413	NC_021166.1	Ca_Kabuli_Chr07	2887413	GG	CC	CC	INTERGENIC		
SNP_46072_A_2965062	NC_021166.1	Ca_Kabuli_Chr07	2965062	TT	CC	CC	URR	101497785	diacylglycerol O-acyltransferase 1-like
SNP_46074_A_2988039	NC_021166.1	Ca_Kabuli_Chr07	2988039	AA	TT	TT	DRR	101499732	U-box domain-containing protein 34
SNP_46075_A_3083622	NC_021166.1	Ca_Kabuli_Chr07	3083622	CC	GG	GG	DRR	101503438	myosin-17
SNP_46076_A_3152607	NC_021166.1	Ca_Kabuli_Chr07	3152607	TT	CC	CC	INTERGENIC		
SNP_46077_A_3230149	NC_021166.1	Ca_Kabuli_Chr07	3230149	TT	CC	CC	URR	101510518	thiol protease aleurain-like
SNP_46079_A_3248303	NC_021166.1	Ca_Kabuli_Chr07	3248303	TT	CC	CC	INTERGENIC		
SNP_46080_A_3248343	NC_021166.1	Ca_Kabuli_Chr07	3248343	GG	TT	TT	INTERGENIC		
SNP_46081_A_3248387	NC_021166.1	Ca_Kabuli_Chr07	3248387	CC	TT	TT	INTERGENIC		
SNP_46083_A_3288546	NC_021166.1	Ca_Kabuli_Chr07	3288546	TT	AA	AA	INTERGENIC		
SNP_46085_A_3332277	NC_021166.1	Ca_Kabuli_Chr07	3332277	TT	CC	CC	DRR	101488674	oligouridylate-binding protein 1-like
SNP_46086_A_3332280	NC_021166.1	Ca_Kabuli_Chr07	3332280	TT	CC	CC	DRR	101488674	oligouridylate-binding protein 1-like
SNP_46087_A_3360940	NC_021166.1	Ca_Kabuli_Chr07	3360940	AA	TT	TT	URR	101489666	auxin response factor 19
SNP_46088_A_3365016	NC_021166.1	Ca_Kabuli_Chr07	3365016	AA	CC	CC	INTERGENIC		
SNP_46089_A_3366627	NC_021166.1	Ca_Kabuli_Chr07	3366627	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46090_A_3377747	NC_021166.1	Ca_Kabuli_Chr07	3377747	CC	TT	TT	INTERGENIC		
SNP_46091_A_3404164	NC_021166.1	Ca_Kabuli_Chr07	3404164	GG	TT	TT	URR	101492021	21 kDa protein-like
SNP_46092_A_3409827	NC_021166.1	Ca_Kabuli_Chr07	3409827	AA	GG	GG	INTRON	101509018	probable flavin-containing monooxygenase 1
SNP_46093_A_3427995	NC_021166.1	Ca_Kabuli_Chr07	3427995	AA	CC	CC	DRR	101492690	uncharacterized LOC101492690
SNP_46094_A_3427996	NC_021166.1	Ca_Kabuli_Chr07	3427996	AA	CC	CC	DRR	101492690	uncharacterized LOC101492690
SNP_46095_A_3440476	NC_021166.1	Ca_Kabuli_Chr07	3440476	TT	CC	CC	INTERGENIC		
SNP_46096_A_3448446	NC_021166.1	Ca_Kabuli_Chr07	3448446	GG	CC	CC	INTERGENIC		
SNP_46097_A_3502923	NC_021166.1	Ca_Kabuli_Chr07	3502923	TT	CC	CC	INTERGENIC		
SNP_46098_A_3503743	NC_021166.1	Ca_Kabuli_Chr07	3503743	CC	TT	TT	DRR	101495046	kinesin-like protein NACK2
SNP_46099_A_3503802	NC_021166.1	Ca_Kabuli_Chr07	3503802	TT	CC	CC	DRR	101495046	kinesin-like protein NACK2
SNP_46100_A_3503976	NC_021166.1	Ca_Kabuli_Chr07	3503976	CC	AA	AA	DRR	101495046	kinesin-like protein NACK2
SNP_46101_A_3506580	NC_021166.1	Ca_Kabuli_Chr07	3506580	GG	TT	TT	INTRON	101495046	kinesin-like protein NACK2
SNP_46102_A_3511613	NC_021166.1	Ca_Kabuli_Chr07	3511613	CC	TT	TT	DRR	101495592	eukaryotic translation initiation factor 3 subunit K
SNP_46103_A_3511847	NC_021166.1	Ca_Kabuli_Chr07	3511847	AA	GG	GG	DRR	101495592	eukaryotic translation initiation factor 3 subunit K
SNP_46104_A_3511980	NC_021166.1	Ca_Kabuli_Chr07	3511980	TT	AA	AA	DRR	101495592	eukaryotic translation initiation factor 3 subunit K
SNP_46105_A_3511995	NC_021166.1	Ca_Kabuli_Chr07	3511995	GG	AA	AA	DRR	101495592	eukaryotic translation initiation factor 3 subunit K
SNP_46106_A_3512153	NC_021166.1	Ca_Kabuli_Chr07	3512153	CC	TT	TT	DRR	101495592	eukaryotic translation initiation factor 3 subunit K
SNP_46107_A_3519471	NC_021166.1	Ca_Kabuli_Chr07	3519471	AA	TT	TT	INTERGENIC		
SNP_46108_A_3520234	NC_021166.1	Ca_Kabuli_Chr07	3520234	GG	CC	CC	INTRON	101495920	phosphoinositide phosphatase SAC3
SNP_46109_A_3521744	NC_021166.1	Ca_Kabuli_Chr07	3521744	GG	AA	AA	INTRON	101495920	phosphoinositide phosphatase SAC3
SNP_46111_A_3523887	NC_021166.1	Ca_Kabuli_Chr07	3523887	AA	GG	GG	INTRON	101495920	phosphoinositide phosphatase SAC3
SNP_46112_A_3524044	NC_021166.1	Ca_Kabuli_Chr07	3524044	TT	CC	CC	SYNONYMOUS_CODING	101495920	phosphoinositide phosphatase SAC3

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SNP_46113_A_3524349	NC_021166.1	Ca_Kabuli_Chr07	3524349	GG	AA	AA	INTRON	101495920	phosphoinositide phosphatase SAC3
SNP_46115_A_3528676	NC_021166.1	Ca_Kabuli_Chr07	3528676	CC	TT	TT	URR	101495920	phosphoinositide phosphatase SAC3
SNP_46116_A_3528679	NC_021166.1	Ca_Kabuli_Chr07	3528679	TT	CC	CC	URR	101495920	phosphoinositide phosphatase SAC3
SNP_46117_A_3528709	NC_021166.1	Ca_Kabuli_Chr07	3528709	CC	TT	TT	URR	101495920	phosphoinositide phosphatase SAC3
SNP_46118_A_3528860	NC_021166.1	Ca_Kabuli_Chr07	3528860	TT	CC	CC	URR	101495920	phosphoinositide phosphatase SAC3
SNP_46119_A_3529166	NC_021166.1	Ca_Kabuli_Chr07	3529166	AA	GG	GG	INTERGENIC		
SNP_46120_A_3529177	NC_021166.1	Ca_Kabuli_Chr07	3529177	GG	CC	CC	INTERGENIC		
SNP_46121_A_3531081	NC_021166.1	Ca_Kabuli_Chr07	3531081	AA	GG	GG	INTERGENIC		
SNP_46122_A_3532060	NC_021166.1	Ca_Kabuli_Chr07	3532060	AA	GG	GG	INTERGENIC		
SNP_46123_A_3532234	NC_021166.1	Ca_Kabuli_Chr07	3532234	GG	CC	CC	INTERGENIC		
SNP_46124_A_3532274	NC_021166.1	Ca_Kabuli_Chr07	3532274	AA	GG	GG	INTERGENIC		
SNP_46125_A_3532288	NC_021166.1	Ca_Kabuli_Chr07	3532288	GG	AA	AA	INTERGENIC		
SNP_46126_A_3532296	NC_021166.1	Ca_Kabuli_Chr07	3532296	TT	CC	CC	INTERGENIC		
SNP_46127_A_3532549	NC_021166.1	Ca_Kabuli_Chr07	3532549	CC	TT	TT	INTERGENIC		
SNP_46128_A_3539644	NC_021166.1	Ca_Kabuli_Chr07	3539644	CC	AA	AA	DRR	101496798	uncharacterized LOC101496798
SNP_46130_A_3540242	NC_021166.1	Ca_Kabuli_Chr07	3540242	CC	AA	AA	DRR	101496798	uncharacterized LOC101496798
SNP_46131_A_3540255	NC_021166.1	Ca_Kabuli_Chr07	3540255	TT	CC	CC	DRR	101496798	uncharacterized LOC101496798
SNP_46132_A_3544511	NC_021166.1	Ca_Kabuli_Chr07	3544511	CC	GG	GG	URR	101496798	uncharacterized LOC101496798
SNP_46133_A_3548514	NC_021166.1	Ca_Kabuli_Chr07	3548514	CC	TT	TT	INTERGENIC		
SNP_46134_A_3548567	NC_021166.1	Ca_Kabuli_Chr07	3548567	GG	AA	AA	INTERGENIC		
SNP_46136_A_3552361	NC_021166.1	Ca_Kabuli_Chr07	3552361	GG	AA	AA	INTERGENIC		
SNP_46137_A_3552504	NC_021166.1	Ca_Kabuli_Chr07	3552504	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46138_A_3557377	NC_021166.1	Ca_Kabuli_Chr07	3557377	CC	TT	TT	INTRON	101497117	1-phosphatidylinositol-3-phosphate 5-kinase FAB1A
SNP_46139_A_3557446	NC_021166.1	Ca_Kabuli_Chr07	3557446	GG	AA	AA	INTRON	101497117	1-phosphatidylinositol-3-phosphate 5-kinase FAB1A
SNP_46140_A_3567427	NC_021166.1	Ca_Kabuli_Chr07	3567427	GG	AA	AA	URR	101498317	Unknown function
SNP_46141_A_3567474	NC_021166.1	Ca_Kabuli_Chr07	3567474	CC	TT	TT	URR	101498317	Unknown function
SNP_46142_A_3567866	NC_021166.1	Ca_Kabuli_Chr07	3567866	TT	CC	CC	URR	101498317	Unknown function
SNP_46143_A_3567911	NC_021166.1	Ca_Kabuli_Chr07	3567911	CC	TT	TT	URR	101498317	Unknown function
SNP_46144_A_3568756	NC_021166.1	Ca_Kabuli_Chr07	3568756	AA	GG	GG	DRR	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46145_A_3572439	NC_021166.1	Ca_Kabuli_Chr07	3572439	AA	GG	GG	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46146_A_3573794	NC_021166.1	Ca_Kabuli_Chr07	3573794	TT	AA	AA	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46147_A_3575574	NC_021166.1	Ca_Kabuli_Chr07	3575574	GG	TT	TT	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46148_A_3577144	NC_021166.1	Ca_Kabuli_Chr07	3577144	CC	GG	GG	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46149_A_3577482	NC_021166.1	Ca_Kabuli_Chr07	3577482	GG	AA	AA	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46150_A_3580487	NC_021166.1	Ca_Kabuli_Chr07	3580487	TT	CC	CC	INTRON	101498656	conserved oligomeric Golgi complex subunit 3
SNP_46151_A_3588119	NC_021166.1	Ca_Kabuli_Chr07	3588119	CC	TT	TT	DRR	101509658	uncharacterized LOC101509658
SNP_46152_A_3590196	NC_021166.1	Ca_Kabuli_Chr07	3590196	TT	GG	GG	DRR	101498982	DNA repair protein RAD51 homolog 1
SNP_46153_A_3594581	NC_021166.1	Ca_Kabuli_Chr07	3594581	AA	TT	TT	URR	101498982	DNA repair protein RAD51 homolog 1
SNP_46154_A_3594585	NC_021166.1	Ca_Kabuli_Chr07	3594585	AA	GG	GG	URR	101498982	DNA repair protein RAD51 homolog 1
SNP_46155_A_3594671	NC_021166.1	Ca_Kabuli_Chr07	3594671	AA	GG	GG	URR	101498982	DNA repair protein RAD51 homolog 1
SNP_46156_A_3595165	NC_021166.1	Ca_Kabuli_Chr07	3595165	TT	CC	CC	DRR	101499304	putative pectinesterase/pectinesterase inhibitor 45
SNP_46157_A_3595169	NC_021166.1	Ca_Kabuli_Chr07	3595169	GG	AA	AA	DRR	101499304	putative pectinesterase/pectinesterase inhibitor 45
SNP_46158_A_3597172	NC_021166.1	Ca_Kabuli_Chr07	3597172	CC	TT	TT	INTERGENIC		
SNP_46159_A_3597359	NC_021166.1	Ca_Kabuli_Chr07	3597359	GG	AA	AA	INTERGENIC		

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SNP_46160_A_3599352	NC_021166.1	Ca_Kabuli_Chr07	3599352	CC	TT	TT	URR	101499304	putative pectinesterase/pectinesterase inhibitor 45
SNP_46161_A_3599379	NC_021166.1	Ca_Kabuli_Chr07	3599379	TT	CC	CC	URR	101499304	putative pectinesterase/pectinesterase inhibitor 45
SNP_46162_A_3601804	NC_021166.1	Ca_Kabuli_Chr07	3601804	GG	AA	AA	URR	101499619	probable pectinesterase/pectinesterase inhibitor 12
SNP_46163_A_3601818	NC_021166.1	Ca_Kabuli_Chr07	3601818	GG	AA	AA	URR	101499619	probable pectinesterase/pectinesterase inhibitor 12
SNP_46164_A_3601870	NC_021166.1	Ca_Kabuli_Chr07	3601870	TT	AA	AA	URR	101499619	probable pectinesterase/pectinesterase inhibitor 12
SNP_46165_A_3604018	NC_021166.1	Ca_Kabuli_Chr07	3604018	TT	CC	CC	DRR	101499927	pectinesterase/pectinesterase inhibitor PPE8B
SNP_46166_A_3609509	NC_021166.1	Ca_Kabuli_Chr07	3609509	CC	AA	AA	INTERGENIC		
SNP_46167_A_3612532	NC_021166.1	Ca_Kabuli_Chr07	3612532	CC	TT	TT	INTERGENIC		
SNP_46168_A_3612825	NC_021166.1	Ca_Kabuli_Chr07	3612825	AA	TT	TT	INTERGENIC		
SNP_46169_A_3612954	NC_021166.1	Ca_Kabuli_Chr07	3612954	AA	GG	GG	INTERGENIC		
SNP_46170_A_3613014	NC_021166.1	Ca_Kabuli_Chr07	3613014	GG	CC	CC	INTERGENIC		
SNP_46171_A_3613228	NC_021166.1	Ca_Kabuli_Chr07	3613228	TT	GG	GG	INTERGENIC		
SNP_46172_A_3613300	NC_021166.1	Ca_Kabuli_Chr07	3613300	TT	AA	AA	INTERGENIC		
SNP_46173_A_3613399	NC_021166.1	Ca_Kabuli_Chr07	3613399	AA	GG	GG	INTERGENIC		
SNP_46174_A_3613455	NC_021166.1	Ca_Kabuli_Chr07	3613455	GG	AA	AA	INTERGENIC		
SNP_46175_A_3613471	NC_021166.1	Ca_Kabuli_Chr07	3613471	TT	GG	GG	INTERGENIC		
SNP_46177_A_3615240	NC_021166.1	Ca_Kabuli_Chr07	3615240	AA	GG	GG	INTERGENIC		
SNP_46178_A_3615304	NC_021166.1	Ca_Kabuli_Chr07	3615304	AA	CC	CC	INTERGENIC		
SNP_46179_A_3615642	NC_021166.1	Ca_Kabuli_Chr07	3615642	TT	CC	CC	INTERGENIC		
SNP_46180_A_3616597	NC_021166.1	Ca_Kabuli_Chr07	3616597	AA	CC	CC	INTERGENIC		
SNP_46181_A_3617367	NC_021166.1	Ca_Kabuli_Chr07	3617367	AA	TT	TT	INTERGENIC		
SNP_46183_A_3618166	NC_021166.1	Ca_Kabuli_Chr07	3618166	TT	CC	CC	INTERGENIC		

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SNP_46184_A_3618170	NC_021166.1	Ca_Kabuli_Chr07	3618170	GG	AA	AA	INTERGENIC		
SNP_46185_A_3618702	NC_021166.1	Ca_Kabuli_Chr07	3618702	TT	CC	CC	INTERGENIC		
SNP_46186_A_3619792	NC_021166.1	Ca_Kabuli_Chr07	3619792	TT	GG	GG	INTERGENIC		
SNP_46187_A_3622346	NC_021166.1	Ca_Kabuli_Chr07	3622346	TT	CC	CC	INTERGENIC		
SNP_46188_A_3624928	NC_021166.1	Ca_Kabuli_Chr07	3624928	TT	AA	AA	INTRON	101500267	alpha-aminoadipic semialdehyde synthase
SNP_46189_A_3625099	NC_021166.1	Ca_Kabuli_Chr07	3625099	CC	TT	TT	INTRON	101500267	alpha-aminoadipic semialdehyde synthase
SNP_46190_A_3629633	NC_021166.1	Ca_Kabuli_Chr07	3629633	TT	AA	AA	INTRON	101500267	alpha-aminoadipic semialdehyde synthase
SNP_46192_A_3630067	NC_021166.1	Ca_Kabuli_Chr07	3630067	AA	TT	TT	INTRON	101500267	alpha-aminoadipic semialdehyde synthase
SNP_46193_A_3633555	NC_021166.1	Ca_Kabuli_Chr07	3633555	GG	TT	TT	INTRON	101500267	alpha-aminoadipic semialdehyde synthase
SNP_46194_A_3635713	NC_021166.1	Ca_Kabuli_Chr07	3635713	GG	TT	TT	INTERGENIC		
SNP_46195_A_3638803	NC_021166.1	Ca_Kabuli_Chr07	3638803	GG	TT	TT	DRR	101500584	uncharacterized LOC101500584
SNP_46196_A_3641713	NC_021166.1	Ca_Kabuli_Chr07	3641713	TT	CC	CC	INTERGENIC		
SNP_46197_A_3645063	NC_021166.1	Ca_Kabuli_Chr07	3645063	TT	CC	CC	URR	101500584	uncharacterized LOC101500584
SNP_46198_A_3645342	NC_021166.1	Ca_Kabuli_Chr07	3645342	AA	GG	GG	INTERGENIC		
SNP_46199_A_3645358	NC_021166.1	Ca_Kabuli_Chr07	3645358	TT	CC	CC	INTERGENIC		
SNP_46200_A_3646298	NC_021166.1	Ca_Kabuli_Chr07	3646298	CC	TT	TT	URR	101500896	glucan endo-1,3-beta-glucosidase 5
SNP_46201_A_3646520	NC_021166.1	Ca_Kabuli_Chr07	3646520	AA	GG	GG	URR	101500896	glucan endo-1,3-beta-glucosidase 5
SNP_46202_A_3648194	NC_021166.1	Ca_Kabuli_Chr07	3648194	AA	GG	GG	DRR	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46203_A_3650540	NC_021166.1	Ca_Kabuli_Chr07	3650540	TT	GG	GG	SYNONYMOUS_CODING	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46204_A_3650612	NC_021166.1	Ca_Kabuli_Chr07	3650612	TT	CC	CC	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46205_A_3651683	NC_021166.1	Ca_Kabuli_Chr07	3651683	CC	AA	AA	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46206_A_3652918	NC_021166.1	Ca_Kabuli_Chr07	3652918	CC	TT	TT	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5

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SNP_46207_A_3653694	NC_021166.1	Ca_Kabuli_Chr07	3653694	AA	GG	GG	SYNONYMOUS_CODING	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46208_A_3654046	NC_021166.1	Ca_Kabuli_Chr07	3654046	GG	TT	TT	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46209_A_3654254	NC_021166.1	Ca_Kabuli_Chr07	3654254	GG	AA	AA	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46210_A_3661188	NC_021166.1	Ca_Kabuli_Chr07	3661188	GG	AA	AA	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46211_A_3661353	NC_021166.1	Ca_Kabuli_Chr07	3661353	CC	AA	AA	SYNONYMOUS_CODING	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46212_A_3664374	NC_021166.1	Ca_Kabuli_Chr07	3664374	GG	TT	TT	INTRON	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46213_A_3667924	NC_021166.1	Ca_Kabuli_Chr07	3667924	AA	GG	GG	URR	101501224	brefeldin A-inhibited guanine nucleotide-exchange protein 5
SNP_46215_A_3670600	NC_021166.1	Ca_Kabuli_Chr07	3670600	TT	CC	CC	URR	101501536	RING-H2 zinc finger protein RHA4a
SNP_46216_A_3670627	NC_021166.1	Ca_Kabuli_Chr07	3670627	TT	CC	CC	URR	101501536	RING-H2 zinc finger protein RHA4a
SNP_46218_A_3674075	NC_021166.1	Ca_Kabuli_Chr07	3674075	AA	GG	GG	INTRON	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46219_A_3674154	NC_021166.1	Ca_Kabuli_Chr07	3674154	CC	AA	AA	INTRON	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46220_A_3674396	NC_021166.1	Ca_Kabuli_Chr07	3674396	TT	GG	GG	INTRON	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46221_A_3675615	NC_021166.1	Ca_Kabuli_Chr07	3675615	GG	AA	AA	INTRON	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46222_A_3675668	NC_021166.1	Ca_Kabuli_Chr07	3675668	CC	AA	AA	INTRON	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46224_A_3677067	NC_021166.1	Ca_Kabuli_Chr07	3677067	CC	TT	TT	URR	101501853	hepatocyte growth factor-regulated tyrosine kinase substrate
SNP_46225_A_3683423	NC_021166.1	Ca_Kabuli_Chr07	3683423	AA	TT	TT	URR	101502388	protein TIFY 3B
SNP_46226_A_3683683	NC_021166.1	Ca_Kabuli_Chr07	3683683	TT	CC	CC	URR	101502388	protein TIFY 3B
SNP_46228_A_3687484	NC_021166.1	Ca_Kabuli_Chr07	3687484	TT	CC	CC	INTERGENIC		
SNP_46229_A_3689581	NC_021166.1	Ca_Kabuli_Chr07	3689581	CC	AA	AA	DRR	101502693	protein FATTY ACID EXPORT 2, chloroplast
SNP_46230_A_3689590	NC_021166.1	Ca_Kabuli_Chr07	3689590	GG	AA	AA	DRR	101502693	protein FATTY ACID EXPORT 2, chloroplast
SNP_46232_A_3690098	NC_021166.1	Ca_Kabuli_Chr07	3690098	CC	AA	AA	DRR	101502693	protein FATTY ACID EXPORT 2, chloroplast
SNP_46233_A_3690813	NC_021166.1	Ca_Kabuli_Chr07	3690813	TT	CC	CC	INTRON	101502693	protein FATTY ACID EXPORT 2, chloroplast

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SNP_46234_A_3690814	NC_021166.1	Ca_Kabuli_Chr07	3690814	GG	AA	AA	INTRON		101502693	protein FATTY ACID EXPORT 2, chloroplastic
SNP_46236_A_3691382	NC_021166.1	Ca_Kabuli_Chr07	3691382	GG	TT	TT	INTERGENIC			
SNP_46237_A_3721492	NC_021166.1	Ca_Kabuli_Chr07	3721492	TT	CC	CC	URR		101503657	cyprosin-like
SNP_46238_A_3860673	NC_021166.1	Ca_Kabuli_Chr07	3860673	TT	CC	CC	DRR		101509870	uncharacterized LOC101509870
SNP_46239_A_3896298	NC_021166.1	Ca_Kabuli_Chr07	3896298	GG	AA	AA	URR		101511170	probable sugar phosphate/phosphate translocator At3g17430
SNP_46243_A_4012081	NC_021166.1	Ca_Kabuli_Chr07	4012081	GG	CC	CC	DRR		101488675	uncharacterized LOC101488675
SNP_46244_A_4041976	NC_021166.1	Ca_Kabuli_Chr07	4041976	TT	CC	CC	INTRON		101488675	uncharacterized LOC101488675
SNP_46245_A_4091955	NC_021166.1	Ca_Kabuli_Chr07	4091955	TT	CC	CC	INTERGENIC			
SNP_46246_A_4092122	NC_021166.1	Ca_Kabuli_Chr07	4092122	GG	CC	CC	INTERGENIC			
SNP_46247_A_4092146	NC_021166.1	Ca_Kabuli_Chr07	4092146	AA	CC	CC	INTERGENIC			
SNP_46248_A_4108791	NC_021166.1	Ca_Kabuli_Chr07	4108791	TT	AA	AA	URR		101489551	probable protein phosphatase 2C 13
SNP_46249_A_4108794	NC_021166.1	Ca_Kabuli_Chr07	4108794	TT	AA	AA	URR		101489551	probable protein phosphatase 2C 13
SNP_46250_A_4162136	NC_021166.1	Ca_Kabuli_Chr07	4162136	TT	CC	CC	DRR		101492467	beta-glucosidase-like SFR2, chloroplastic
SNP_46251_A_4228743	NC_021166.1	Ca_Kabuli_Chr07	4228743	AA	GG	GG	DRR		101496253	cell wall / vacuolar inhibitor of fructosidase 1-like
SNP_46253_A_4258284	NC_021166.1	Ca_Kabuli_Chr07	4258284	GG	CC	CC	URR		101497559	pentatricopeptide repeat-containing protein At1g60770-like
SNP_46254_A_4258809	NC_021166.1	Ca_Kabuli_Chr07	4258809	TT	AA	AA	URR		101497559	pentatricopeptide repeat-containing protein At1g60770-like
SNP_46255_A_4262537	NC_021166.1	Ca_Kabuli_Chr07	4262537	AA	GG	GG	INTERGENIC			
SNP_46256_A_4314479	NC_021166.1	Ca_Kabuli_Chr07	4314479	TT	AA	AA	INTERGENIC			
SNP_46257_A_4314483	NC_021166.1	Ca_Kabuli_Chr07	4314483	AA	GG	GG	INTERGENIC			
SNP_46260_A_4365694	NC_021166.1	Ca_Kabuli_Chr07	4365694	AA	TT	TT	URR		101501315	uncharacterized LOC101501315
SNP_46263_A_4413703	NC_021166.1	Ca_Kabuli_Chr07	4413703	AA	GG	GG	INTERGENIC			
SNP_46264_A_4417809	NC_021166.1	Ca_Kabuli_Chr07	4417809	AA	GG	GG	INTERGENIC			

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SNP_46265_A_4417815	NC_021166.1	Ca_Kabuli_Chr07	4417815	CC	GG	GG	INTERGENIC			
SNP_46266_A_4417819	NC_021166.1	Ca_Kabuli_Chr07	4417819	AA	GG	GG	INTERGENIC			
SNP_46267_A_4417932	NC_021166.1	Ca_Kabuli_Chr07	4417932	GG	CC	CC	INTERGENIC			
SNP_46268_A_4417940	NC_021166.1	Ca_Kabuli_Chr07	4417940	CC	TT	TT	INTERGENIC			
SNP_46269_A_4418072	NC_021166.1	Ca_Kabuli_Chr07	4418072	AA	GG	GG	INTERGENIC			
SNP_46270_A_4418083	NC_021166.1	Ca_Kabuli_Chr07	4418083	TT	AA	AA	INTERGENIC			
SNP_46271_A_4418090	NC_021166.1	Ca_Kabuli_Chr07	4418090	AA	GG	GG	INTERGENIC			
SNP_46272_A_4418103	NC_021166.1	Ca_Kabuli_Chr07	4418103	AA	CC	CC	INTERGENIC			
SNP_46274_A_4450309	NC_021166.1	Ca_Kabuli_Chr07	4450309	GG	TT	TT	INTERGENIC			
SNP_46275_A_4487187	NC_021166.1	Ca_Kabuli_Chr07	4487187	AA	GG	GG	INTERGENIC			
SNP_46276_A_4537746	NC_021166.1	Ca_Kabuli_Chr07	4537746	GG	TT	TT	URR		101488231	Unknown function
SNP_46277_A_4547125	NC_021166.1	Ca_Kabuli_Chr07	4547125	TT	CC	CC	DRR		101507750	GTP-binding protein SAR1A-like
SNP_46278_A_4550993	NC_021166.1	Ca_Kabuli_Chr07	4550993	AA	GG	GG	DRR		101508075	calmodulin-binding transcription activator 5-like
SNP_46279_A_4552677	NC_021166.1	Ca_Kabuli_Chr07	4552677	GG	AA	AA	INTERGENIC			
SNP_46280_A_4552684	NC_021166.1	Ca_Kabuli_Chr07	4552684	AA	GG	GG	INTERGENIC			
SNP_46281_A_4552705	NC_021166.1	Ca_Kabuli_Chr07	4552705	AA	GG	GG	INTERGENIC			
SNP_46282_A_4552783	NC_021166.1	Ca_Kabuli_Chr07	4552783	TT	CC	CC	INTERGENIC			
SNP_46283_A_4552813	NC_021166.1	Ca_Kabuli_Chr07	4552813	AA	TT	TT	INTERGENIC			
SNP_46284_A_4552834	NC_021166.1	Ca_Kabuli_Chr07	4552834	TT	CC	CC	INTERGENIC			
SNP_46285_A_4552911	NC_021166.1	Ca_Kabuli_Chr07	4552911	CC	TT	TT	INTERGENIC			
SNP_46286_A_4552925	NC_021166.1	Ca_Kabuli_Chr07	4552925	GG	TT	TT	INTERGENIC			
SNP_46287_A_4629363	NC_021166.1	Ca_Kabuli_Chr07	4629363	GG	AA	AA	URR		101510188	two-component response regulator ARR2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46288_A_4660745	NC_021166.1	Ca_Kabuli_Chr07	4660745	AA	GG	GG	DRR	101511589	ABA-responsive protein ABR18-like
SNP_46289_A_4661365	NC_021166.1	Ca_Kabuli_Chr07	4661365	CC	TT	TT	DRR	101511589	ABA-responsive protein ABR18-like
SNP_46291_A_4764441	NC_021166.1	Ca_Kabuli_Chr07	4764441	CC	TT	TT	SYNONYMOUS_CODING	101489553	serine/threonine-protein phosphatase 7 long form homolog
SNP_46293_A_4824547	NC_021166.1	Ca_Kabuli_Chr07	4824547	TT	CC	CC	INTERGENIC		
SNP_46295_A_4867511	NC_021166.1	Ca_Kabuli_Chr07	4867511	TT	CC	CC	URR	101494627	ubiquitin-like-specific protease ESD4
SNP_46296_A_4886992	NC_021166.1	Ca_Kabuli_Chr07	4886992	GG	AA	AA	URR	101489872	histone acetyltransferase KAT6B-like
SNP_46297_A_4915338	NC_021166.1	Ca_Kabuli_Chr07	4915338	GG	AA	AA	INTERGENIC		
SNP_46298_A_4915802	NC_021166.1	Ca_Kabuli_Chr07	4915802	AA	TT	TT	INTERGENIC		
SNP_46299_A_4921000	NC_021166.1	Ca_Kabuli_Chr07	4921000	TT	GG	GG	URR	101497457	F-box protein At5g50450-like
SNP_46300_A_4928825	NC_021166.1	Ca_Kabuli_Chr07	4928825	AA	GG	GG	URR	101497788	putative F-box protein At1g67623
SNP_46301_A_4928854	NC_021166.1	Ca_Kabuli_Chr07	4928854	CC	AA	AA	URR	101497788	putative F-box protein At1g67623
SNP_46302_A_4933630	NC_021166.1	Ca_Kabuli_Chr07	4933630	AA	TT	TT	INTERGENIC		
SNP_46303_A_4933631	NC_021166.1	Ca_Kabuli_Chr07	4933631	CC	GG	GG	INTERGENIC		
SNP_46304_A_4969265	NC_021166.1	Ca_Kabuli_Chr07	4969265	CC	AA	AA	INTERGENIC		
SNP_46305_A_4969274	NC_021166.1	Ca_Kabuli_Chr07	4969274	TT	GG	GG	INTERGENIC		
SNP_46306_A_4970009	NC_021166.1	Ca_Kabuli_Chr07	4970009	AA	TT	TT	INTERGENIC		
SNP_46307_A_4975365	NC_021166.1	Ca_Kabuli_Chr07	4975365	AA	GG	GG	INTERGENIC		
SNP_46308_A_4976008	NC_021166.1	Ca_Kabuli_Chr07	4976008	CC	TT	TT	INTERGENIC		
SNP_46309_A_4983531	NC_021166.1	Ca_Kabuli_Chr07	4983531	AA	TT	TT	DRR	101490649	Unknown function
SNP_46310_A_4984193	NC_021166.1	Ca_Kabuli_Chr07	4984193	AA	GG	GG	INTRON	101490649	Unknown function
SNP_46312_A_5005108	NC_021166.1	Ca_Kabuli_Chr07	5005108	TT	CC	CC	INTRON	101493130	uncharacterized LOC101493130
SNP_46313_A_5008442	NC_021166.1	Ca_Kabuli_Chr07	5008442	CC	AA	AA	URR	101493130	uncharacterized LOC101493130

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SNP_46314_A_5010658	NC_021166.1	Ca_Kabuli_Chr07	5010658	GG	TT	TT	INTERGENIC			
SNP_46315_A_5010936	NC_021166.1	Ca_Kabuli_Chr07	5010936	TT	GG	GG	INTERGENIC			
SNP_46317_A_5015649	NC_021166.1	Ca_Kabuli_Chr07	5015649	TT	CC	CC	INTERGENIC			
SNP_46318_A_5016588	NC_021166.1	Ca_Kabuli_Chr07	5016588	GG	AA	AA	INTERGENIC			
SNP_46319_A_5021173	NC_021166.1	Ca_Kabuli_Chr07	5021173	AA	GG	GG	INTERGENIC			
SNP_46320_A_5021534	NC_021166.1	Ca_Kabuli_Chr07	5021534	AA	GG	GG	INTERGENIC			
SNP_46321_A_5023005	NC_021166.1	Ca_Kabuli_Chr07	5023005	TT	CC	CC	INTERGENIC			
SNP_46322_A_5023033	NC_021166.1	Ca_Kabuli_Chr07	5023033	TT	CC	CC	INTERGENIC			
SNP_46324_A_5027046	NC_021166.1	Ca_Kabuli_Chr07	5027046	CC	TT	TT	INTERGENIC			
SNP_46325_A_5028892	NC_021166.1	Ca_Kabuli_Chr07	5028892	TT	AA	AA	INTERGENIC			
SNP_46326_A_5031310	NC_021166.1	Ca_Kabuli_Chr07	5031310	CC	AA	AA	INTERGENIC			
SNP_46328_A_5034011	NC_021166.1	Ca_Kabuli_Chr07	5034011	CC	TT	TT	INTERGENIC			
SNP_46330_A_5040460	NC_021166.1	Ca_Kabuli_Chr07	5040460	AA	GG	GG	INTERGENIC			
SNP_46331_A_5047998	NC_021166.1	Ca_Kabuli_Chr07	5047998	CC	AA	AA	INTERGENIC			
SNP_46332_A_5051530	NC_021166.1	Ca_Kabuli_Chr07	5051530	TT	CC	CC	INTERGENIC			
SNP_46333_A_5069569	NC_021166.1	Ca_Kabuli_Chr07	5069569	TT	AA	AA	INTERGENIC			
SNP_46334_A_5072130	NC_021166.1	Ca_Kabuli_Chr07	5072130	TT	CC	CC	INTERGENIC			
SNP_46335_A_5076962	NC_021166.1	Ca_Kabuli_Chr07	5076962	AA	GG	GG	INTERGENIC			
SNP_46336_A_5082445	NC_021166.1	Ca_Kabuli_Chr07	5082445	CC	TT	TT	URR	101493459	uncharacterized LOC101493459	
SNP_46337_A_5091918	NC_021166.1	Ca_Kabuli_Chr07	5091918	TT	CC	CC	INTERGENIC			
SNP_46338_A_5093248	NC_021166.1	Ca_Kabuli_Chr07	5093248	AA	GG	GG	INTERGENIC			
SNP_46339_A_5104853	NC_021166.1	Ca_Kabuli_Chr07	5104853	AA	GG	GG	INTRON	101493781	uncharacterized LOC101493781	

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SNP_46340_A_5118909	NC_021166.1	Ca_Kabuli_Chr07	5118909	AA	CC	CC	INTERGENIC			
SNP_46341_A_5127699	NC_021166.1	Ca_Kabuli_Chr07	5127699	GG	AA	AA	INTERGENIC			
SNP_46342_A_5132923	NC_021166.1	Ca_Kabuli_Chr07	5132923	CC	AA	AA	INTERGENIC			
SNP_46343_A_5140331	NC_021166.1	Ca_Kabuli_Chr07	5140331	CC	TT	TT	INTERGENIC			
SNP_46345_A_5143656	NC_021166.1	Ca_Kabuli_Chr07	5143656	CC	TT	TT	INTERGENIC			
SNP_46346_A_5145803	NC_021166.1	Ca_Kabuli_Chr07	5145803	GG	TT	TT	INTERGENIC			
SNP_46347_A_5147203	NC_021166.1	Ca_Kabuli_Chr07	5147203	GG	TT	TT	INTERGENIC			
SNP_46348_A_5153457	NC_021166.1	Ca_Kabuli_Chr07	5153457	CC	TT	TT	INTERGENIC			
SNP_46349_A_5178127	NC_021166.1	Ca_Kabuli_Chr07	5178127	GG	AA	AA	INTERGENIC			
SNP_46350_A_5178560	NC_021166.1	Ca_Kabuli_Chr07	5178560	GG	CC	CC	INTERGENIC			
SNP_46351_A_5179500	NC_021166.1	Ca_Kabuli_Chr07	5179500	GG	AA	AA	INTERGENIC			
SNP_46352_A_5181285	NC_021166.1	Ca_Kabuli_Chr07	5181285	GG	AA	AA	INTERGENIC			
SNP_46353_A_5181458	NC_021166.1	Ca_Kabuli_Chr07	5181458	CC	TT	TT	INTERGENIC			
SNP_46354_A_5185109	NC_021166.1	Ca_Kabuli_Chr07	5185109	GG	TT	TT	INTERGENIC			
SNP_46355_A_5185173	NC_021166.1	Ca_Kabuli_Chr07	5185173	TT	CC	CC	INTERGENIC			
SNP_46356_A_5189856	NC_021166.1	Ca_Kabuli_Chr07	5189856	GG	AA	AA	INTERGENIC			
SNP_46357_A_5191513	NC_021166.1	Ca_Kabuli_Chr07	5191513	CC	TT	TT	INTERGENIC			
SNP_46358_A_5193465	NC_021166.1	Ca_Kabuli_Chr07	5193465	AA	CC	CC	INTERGENIC			
SNP_46359_A_5193472	NC_021166.1	Ca_Kabuli_Chr07	5193472	AA	CC	CC	INTERGENIC			
SNP_46360_A_5193491	NC_021166.1	Ca_Kabuli_Chr07	5193491	TT	AA	AA	INTERGENIC			
SNP_46361_A_5193498	NC_021166.1	Ca_Kabuli_Chr07	5193498	AA	GG	GG	INTERGENIC			
SNP_46362_A_5193508	NC_021166.1	Ca_Kabuli_Chr07	5193508	AA	GG	GG	INTERGENIC			

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SNP_46363_A_5193533	NC_021166.1	Ca_Kabuli_Chr07	5193533	CC	TT	TT	INTERGENIC		
SNP_46364_A_5193570	NC_021166.1	Ca_Kabuli_Chr07	5193570	AA	GG	GG	INTERGENIC		
SNP_46365_A_5193713	NC_021166.1	Ca_Kabuli_Chr07	5193713	CC	TT	TT	INTERGENIC		
SNP_46366_A_5198766	NC_021166.1	Ca_Kabuli_Chr07	5198766	TT	CC	CC	INTERGENIC		
SNP_46367_A_5262132	NC_021166.1	Ca_Kabuli_Chr07	5262132	TT	AA	AA	INTRON	101496029	uncharacterized LOC101496029
SNP_46368_A_5265319	NC_021166.1	Ca_Kabuli_Chr07	5265319	GG	AA	AA	INTERGENIC		
SNP_46369_A_5284899	NC_021166.1	Ca_Kabuli_Chr07	5284899	TT	AA	AA	INTERGENIC		
SNP_46370_A_5297775	NC_021166.1	Ca_Kabuli_Chr07	5297775	GG	TT	TT	INTERGENIC		
SNP_46373_A_5374691	NC_021166.1	Ca_Kabuli_Chr07	5374691	TT	CC	CC	INTRON	101500784	probable serine/threonine-protein phosphatase 2A regulatory subunit B" subunit TON2
SNP_46374_A_5375166	NC_021166.1	Ca_Kabuli_Chr07	5375166	CC	TT	TT	INTRON	101500784	probable serine/threonine-protein phosphatase 2A regulatory subunit B" subunit TON2
SNP_46375_A_5378775	NC_021166.1	Ca_Kabuli_Chr07	5378775	AA	GG	GG	INTRON	101500784	probable serine/threonine-protein phosphatase 2A regulatory subunit B" subunit TON2
SNP_46376_A_5382063	NC_021166.1	Ca_Kabuli_Chr07	5382063	AA	GG	GG	INTERGENIC		
SNP_46377_A_5382693	NC_021166.1	Ca_Kabuli_Chr07	5382693	AA	GG	GG	INTERGENIC		
SNP_46378_A_5382696	NC_021166.1	Ca_Kabuli_Chr07	5382696	GG	CC	CC	INTERGENIC		
SNP_46379_A_5386620	NC_021166.1	Ca_Kabuli_Chr07	5386620	GG	AA	AA	URR	101501419	pentatricopeptide repeat-containing protein At4g22760
SNP_46380_A_5386725	NC_021166.1	Ca_Kabuli_Chr07	5386725	AA	GG	GG	URR	101501419	pentatricopeptide repeat-containing protein At4g22760
SNP_46381_A_5398592	NC_021166.1	Ca_Kabuli_Chr07	5398592	CC	TT	TT	INTERGENIC		
SNP_46384_A_5402247	NC_021166.1	Ca_Kabuli_Chr07	5402247	TT	AA	AA	URR	101502063	acyl-CoA-binding domain-containing protein 4-like
SNP_46386_A_5405356	NC_021166.1	Ca_Kabuli_Chr07	5405356	AA	CC	CC	URR	101503006	monothiol glutaredoxin-S2-like
SNP_46387_A_5406794	NC_021166.1	Ca_Kabuli_Chr07	5406794	CC	AA	AA	URR	101503006	monothiol glutaredoxin-S2-like
SNP_46388_A_5407089	NC_021166.1	Ca_Kabuli_Chr07	5407089	CC	AA	AA	INTERGENIC		
SNP_46389_A_5407336	NC_021166.1	Ca_Kabuli_Chr07	5407336	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46390_A_5407411	NC_021166.1	Ca_Kabuli_Chr07	5407411	GG	AA	AA	INTERGENIC		
SNP_46391_A_5410015	NC_021166.1	Ca_Kabuli_Chr07	5410015	GG	AA	AA	DRR	101503330	monothiol glutaredoxin-S2-like
SNP_46392_A_5410115	NC_021166.1	Ca_Kabuli_Chr07	5410115	TT	CC	CC	DRR	101503330	monothiol glutaredoxin-S2-like
SNP_46393_A_5411467	NC_021166.1	Ca_Kabuli_Chr07	5411467	GG	CC	CC	INTERGENIC		
SNP_46394_A_5411482	NC_021166.1	Ca_Kabuli_Chr07	5411482	CC	TT	TT	INTERGENIC		
SNP_46395_A_5411522	NC_021166.1	Ca_Kabuli_Chr07	5411522	TT	CC	CC	INTERGENIC		
SNP_46396_A_5412082	NC_021166.1	Ca_Kabuli_Chr07	5412082	GG	AA	AA	URR	101503330	monothiol glutaredoxin-S2-like
SNP_46397_A_5414587	NC_021166.1	Ca_Kabuli_Chr07	5414587	TT	CC	CC	INTERGENIC		
SNP_46398_A_5415211	NC_021166.1	Ca_Kabuli_Chr07	5415211	AA	GG	GG	INTERGENIC		
SNP_46399_A_5415539	NC_021166.1	Ca_Kabuli_Chr07	5415539	CC	TT	TT	INTERGENIC		
SNP_46400_A_5416144	NC_021166.1	Ca_Kabuli_Chr07	5416144	CC	TT	TT	INTERGENIC		
SNP_46401_A_5416187	NC_021166.1	Ca_Kabuli_Chr07	5416187	GG	AA	AA	INTERGENIC		
SNP_46402_A_5417414	NC_021166.1	Ca_Kabuli_Chr07	5417414	CC	TT	TT	DRR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46403_A_5417421	NC_021166.1	Ca_Kabuli_Chr07	5417421	CC	TT	TT	DRR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46404_A_5417427	NC_021166.1	Ca_Kabuli_Chr07	5417427	AA	GG	GG	DRR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46405_A_5417428	NC_021166.1	Ca_Kabuli_Chr07	5417428	CC	AA	AA	DRR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46406_A_5417495	NC_021166.1	Ca_Kabuli_Chr07	5417495	TT	CC	CC	DRR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46407_A_5419203	NC_021166.1	Ca_Kabuli_Chr07	5419203	AA	TT	TT	INTERGENIC		
SNP_46408_A_5419811	NC_021166.1	Ca_Kabuli_Chr07	5419811	CC	TT	TT	INTERGENIC		
SNP_46409_A_5426548	NC_021166.1	Ca_Kabuli_Chr07	5426548	AA	TT	TT	INTRON	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46410_A_5429443	NC_021166.1	Ca_Kabuli_Chr07	5429443	CC	GG	GG	URR	101504208	putative chromatin-remodeling complex ATPase chain
SNP_46411_A_5429503	NC_021166.1	Ca_Kabuli_Chr07	5429503	GG	CC	CC	URR	101504208	putative chromatin-remodeling complex ATPase chain

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46413_A_5434164	NC_021166.1	Ca_Kabuli_Chr07	5434164	AA	TT	TT	INTERGENIC		
SNP_46416_A_5434764	NC_021166.1	Ca_Kabuli_Chr07	5434764	CC	TT	TT	INTERGENIC		
SNP_46418_A_5435254	NC_021166.1	Ca_Kabuli_Chr07	5435254	CC	AA	AA	DRR	101504955	uncharacterized LOC101504955
SNP_46420_A_5437937	NC_021166.1	Ca_Kabuli_Chr07	5437937	CC	TT	TT	URR	101504955	uncharacterized LOC101504955
SNP_46421_A_5438232	NC_021166.1	Ca_Kabuli_Chr07	5438232	AA	GG	GG	URR	101504955	uncharacterized LOC101504955
SNP_46422_A_5441716	NC_021166.1	Ca_Kabuli_Chr07	5441716	TT	CC	CC	INTERGENIC		
SNP_46424_A_5443854	NC_021166.1	Ca_Kabuli_Chr07	5443854	CC	AA	AA	INTERGENIC		
SNP_46426_A_5445438	NC_021166.1	Ca_Kabuli_Chr07	5445438	TT	GG	GG	DRR	101505266	uncharacterized LOC101505266
SNP_46427_A_5445572	NC_021166.1	Ca_Kabuli_Chr07	5445572	CC	GG	GG	DRR	101505266	uncharacterized LOC101505266
SNP_46428_A_5445590	NC_021166.1	Ca_Kabuli_Chr07	5445590	CC	TT	TT	DRR	101505266	uncharacterized LOC101505266
SNP_46429_A_5445661	NC_021166.1	Ca_Kabuli_Chr07	5445661	AA	GG	GG	DRR	101505266	uncharacterized LOC101505266
SNP_46431_A_5451360	NC_021166.1	Ca_Kabuli_Chr07	5451360	TT	GG	GG	DRR	101491921	transcription factor bHLH13-like
SNP_46432_A_5452161	NC_021166.1	Ca_Kabuli_Chr07	5452161	TT	CC	CC	URR	101505266	uncharacterized LOC101505266
SNP_46433_A_5454790	NC_021166.1	Ca_Kabuli_Chr07	5454790	CC	TT	TT	INTERGENIC		
SNP_46434_A_5455565	NC_021166.1	Ca_Kabuli_Chr07	5455565	AA	GG	GG	INTRON	101492256	CASP-like protein 1E1
SNP_46435_A_5459145	NC_021166.1	Ca_Kabuli_Chr07	5459145	CC	AA	AA	URR	101492256	CASP-like protein 1E1
SNP_46438_A_5466665	NC_021166.1	Ca_Kabuli_Chr07	5466665	AA	CC	CC	URR	101505592	CASP-like protein 1D2
SNP_46439_A_5466964	NC_021166.1	Ca_Kabuli_Chr07	5466964	GG	AA	AA	URR	101505592	CASP-like protein 1D2
SNP_46440_A_5467860	NC_021166.1	Ca_Kabuli_Chr07	5467860	AA	GG	GG	INTERGENIC		
SNP_46441_A_5468089	NC_021166.1	Ca_Kabuli_Chr07	5468089	CC	GG	GG	INTERGENIC		
SNP_46442_A_5469949	NC_021166.1	Ca_Kabuli_Chr07	5469949	TT	CC	CC	URR	101505918	uncharacterized LOC101505918
SNP_46443_A_5469954	NC_021166.1	Ca_Kabuli_Chr07	5469954	TT	AA	AA	URR	101505918	uncharacterized LOC101505918

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SNP_46445_A_5474583	NC_021166.1	Ca_Kabuli_Chr07	5474583	GG	AA	AA	INTERGENIC		
SNP_46446_A_5474633	NC_021166.1	Ca_Kabuli_Chr07	5474633	CC	AA	AA	INTERGENIC		
SNP_46447_A_5478939	NC_021166.1	Ca_Kabuli_Chr07	5478939	AA	CC	CC	URR	101506561	sodium/hydrogen exchanger 2-like
SNP_46448_A_5478949	NC_021166.1	Ca_Kabuli_Chr07	5478949	GG	TT	TT	INTERGENIC		
SNP_46449_A_5478951	NC_021166.1	Ca_Kabuli_Chr07	5478951	GG	AA	AA	INTERGENIC		
SNP_46450_A_5481986	NC_021166.1	Ca_Kabuli_Chr07	5481986	AA	TT	TT	INTERGENIC		
SNP_46452_A_5482597	NC_021166.1	Ca_Kabuli_Chr07	5482597	GG	AA	AA	INTERGENIC		
SNP_46455_A_5482749	NC_021166.1	Ca_Kabuli_Chr07	5482749	TT	AA	AA	INTERGENIC		
SNP_46456_A_5483752	NC_021166.1	Ca_Kabuli_Chr07	5483752	GG	AA	AA	INTERGENIC		
SNP_46457_A_5483767	NC_021166.1	Ca_Kabuli_Chr07	5483767	AA	TT	TT	INTERGENIC		
SNP_46458_A_5485502	NC_021166.1	Ca_Kabuli_Chr07	5485502	GG	AA	AA	INTERGENIC		
SNP_46459_A_5488484	NC_021166.1	Ca_Kabuli_Chr07	5488484	GG	AA	AA	INTRON	id159557	Unknown function
SNP_46460_A_5488578	NC_021166.1	Ca_Kabuli_Chr07	5488578	GG	AA	AA	INTRON	id159557	Unknown function
SNP_46461_A_5488590	NC_021166.1	Ca_Kabuli_Chr07	5488590	AA	GG	GG	INTRON	id159557	Unknown function
SNP_46462_A_5488863	NC_021166.1	Ca_Kabuli_Chr07	5488863	GG	CC	CC	INTRON	id159557	Unknown function
SNP_46463_A_5492573	NC_021166.1	Ca_Kabuli_Chr07	5492573	GG	AA	AA	INTERGENIC		
SNP_46464_A_5506116	NC_021166.1	Ca_Kabuli_Chr07	5506116	CC	TT	TT	INTRON	101507449	chromatin structure-remodeling complex protein SYD
SNP_46465_A_5509021	NC_021166.1	Ca_Kabuli_Chr07	5509021	CC	TT	TT	NON_SYNONYMOUS_CODING	101507449	chromatin structure-remodeling complex protein SYD
SNP_46466_A_5511690	NC_021166.1	Ca_Kabuli_Chr07	5511690	AA	GG	GG	SYNONYMOUS_CODING	101507449	chromatin structure-remodeling complex protein SYD
SNP_46467_A_5514418	NC_021166.1	Ca_Kabuli_Chr07	5514418	TT	CC	CC	DRR	101507959	pentatricopeptide repeat-containing protein At2g36980, mitochondrial
SNP_46468_A_5518473	NC_021166.1	Ca_Kabuli_Chr07	5518473	AA	TT	TT	DRR	101508493	uncharacterized LOC101508493
SNP_46469_A_5523812	NC_021166.1	Ca_Kabuli_Chr07	5523812	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46470_A_5524559	NC_021166.1	Ca_Kabuli_Chr07	5524559	GG	TT	TT	DRR	101410569	transfer RNA proline (anticodon UGG)
SNP_46472_A_5529844	NC_021166.1	Ca_Kabuli_Chr07	5529844	CC	AA	AA	INTERGENIC		
SNP_46473_A_5540674	NC_021166.1	Ca_Kabuli_Chr07	5540674	AA	TT	TT	DRR	101510416	sugar transporter ERD6-like 16
SNP_46474_A_5540679	NC_021166.1	Ca_Kabuli_Chr07	5540679	AA	GG	GG	DRR	101510416	sugar transporter ERD6-like 16
SNP_46475_A_5540707	NC_021166.1	Ca_Kabuli_Chr07	5540707	GG	TT	TT	DRR	101510416	sugar transporter ERD6-like 16
SNP_46478_A_5541009	NC_021166.1	Ca_Kabuli_Chr07	5541009	GG	TT	TT	DRR	101510416	sugar transporter ERD6-like 16
SNP_46479_A_5541469	NC_021166.1	Ca_Kabuli_Chr07	5541469	GG	AA	AA	DRR	101510416	sugar transporter ERD6-like 16
SNP_46480_A_5541474	NC_021166.1	Ca_Kabuli_Chr07	5541474	TT	CC	CC	DRR	101510416	sugar transporter ERD6-like 16
SNP_46481_A_5544636	NC_021166.1	Ca_Kabuli_Chr07	5544636	TT	CC	CC	NON_SYNONYMOUS_CODING	101510416	sugar transporter ERD6-like 16
SNP_46482_A_5546142	NC_021166.1	Ca_Kabuli_Chr07	5546142	GG	CC	CC	URR	101510416	sugar transporter ERD6-like 16
SNP_46483_A_5547248	NC_021166.1	Ca_Kabuli_Chr07	5547248	TT	GG	GG	DRR	101510745	uncharacterized LOC101510745
SNP_46484_A_5556643	NC_021166.1	Ca_Kabuli_Chr07	5556643	CC	TT	TT	INTRON	101511066	uncharacterized LOC101511066
SNP_46485_A_5556682	NC_021166.1	Ca_Kabuli_Chr07	5556682	GG	AA	AA	INTRON	101511066	uncharacterized LOC101511066
SNP_46486_A_5556841	NC_021166.1	Ca_Kabuli_Chr07	5556841	GG	TT	TT	INTRON	101511066	uncharacterized LOC101511066
SNP_46487_A_5556842	NC_021166.1	Ca_Kabuli_Chr07	5556842	AA	TT	TT	INTRON	101511066	uncharacterized LOC101511066
SNP_46488_A_5556885	NC_021166.1	Ca_Kabuli_Chr07	5556885	CC	TT	TT	INTRON	101511066	uncharacterized LOC101511066
SNP_46489_A_5558978	NC_021166.1	Ca_Kabuli_Chr07	5558978	TT	AA	AA	INTERGENIC		
SNP_46490_A_5559269	NC_021166.1	Ca_Kabuli_Chr07	5559269	CC	TT	TT	INTERGENIC		
SNP_46491_A_5559289	NC_021166.1	Ca_Kabuli_Chr07	5559289	GG	AA	AA	INTERGENIC		
SNP_46492_A_5559353	NC_021166.1	Ca_Kabuli_Chr07	5559353	CC	TT	TT	INTERGENIC		
SNP_46493_A_5563821	NC_021166.1	Ca_Kabuli_Chr07	5563821	GG	AA	AA	URR	101511066	uncharacterized LOC101511066
SNP_46494_A_5567558	NC_021166.1	Ca_Kabuli_Chr07	5567558	GG	AA	AA	URR	101511375	probable prolyl 4-hydroxylase 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46495_A_5572415	NC_021166.1	Ca_Kabuli_Chr07	5572415	TT	GG	GG	URR	101511706	uncharacterized protein At4g15545-like
SNP_46496_A_5572439	NC_021166.1	Ca_Kabuli_Chr07	5572439	TT	CC	CC	URR	101511706	uncharacterized protein At4g15545-like
SNP_46497_A_5572599	NC_021166.1	Ca_Kabuli_Chr07	5572599	AA	TT	TT	URR	101511706	uncharacterized protein At4g15545-like
SNP_46498_A_5572600	NC_021166.1	Ca_Kabuli_Chr07	5572600	AA	TT	TT	URR	101511706	uncharacterized protein At4g15545-like
SNP_46500_A_5572667	NC_021166.1	Ca_Kabuli_Chr07	5572667	GG	CC	CC	URR	101511706	uncharacterized protein At4g15545-like
SNP_46502_A_5572798	NC_021166.1	Ca_Kabuli_Chr07	5572798	AA	GG	GG	URR	101511706	uncharacterized protein At4g15545-like
SNP_46503_A_5574274	NC_021166.1	Ca_Kabuli_Chr07	5574274	AA	GG	GG	INTERGENIC		
SNP_46506_A_5578638	NC_021166.1	Ca_Kabuli_Chr07	5578638	AA	TT	TT	URR	101512024	uncharacterized LOC101512024
SNP_46507_A_5578640	NC_021166.1	Ca_Kabuli_Chr07	5578640	GG	AA	AA	URR	101512024	uncharacterized LOC101512024
SNP_46508_A_5578784	NC_021166.1	Ca_Kabuli_Chr07	5578784	AA	GG	GG	URR	101512024	uncharacterized LOC101512024
SNP_46509_A_5579652	NC_021166.1	Ca_Kabuli_Chr07	5579652	AA	GG	GG	DRR	101512348	uncharacterized LOC101512348
SNP_46510_A_5581968	NC_021166.1	Ca_Kabuli_Chr07	5581968	GG	CC	CC	URR	101512348	uncharacterized LOC101512348
SNP_46513_A_5585868	NC_021166.1	Ca_Kabuli_Chr07	5585868	TT	CC	CC	URR	101512577	uncharacterized LOC101512577
SNP_46514_A_5625059	NC_021166.1	Ca_Kabuli_Chr07	5625059	CC	TT	TT	INTRON	101515477	AP-5 complex subunit mu
SNP_46515_A_5630226	NC_021166.1	Ca_Kabuli_Chr07	5630226	TT	CC	CC	INTERGENIC		
SNP_46516_A_5631455	NC_021166.1	Ca_Kabuli_Chr07	5631455	TT	CC	CC	URR	101488806	scopoletin glucosyltransferase
SNP_46517_A_5631890	NC_021166.1	Ca_Kabuli_Chr07	5631890	GG	AA	AA	URR	101488806	scopoletin glucosyltransferase
SNP_46518_A_5631907	NC_021166.1	Ca_Kabuli_Chr07	5631907	TT	AA	AA	URR	101488806	scopoletin glucosyltransferase
SNP_46519_A_5633053	NC_021166.1	Ca_Kabuli_Chr07	5633053	AA	GG	GG	DRR	101489132	trihelix transcription factor ASIL1-like
SNP_46522_A_5649267	NC_021166.1	Ca_Kabuli_Chr07	5649267	TT	CC	CC	INTERGENIC		
SNP_46523_A_5649562	NC_021166.1	Ca_Kabuli_Chr07	5649562	TT	CC	CC	INTERGENIC		
SNP_46525_A_5649934	NC_021166.1	Ca_Kabuli_Chr07	5649934	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46527_A_5655143	NC_021166.1	Ca_Kabuli_Chr07	5655143	GG	AA	AA	URR	101490104	UDP-glucose flavonoid 3-O-glucosyltransferase 7-like
SNP_46528_A_5655145	NC_021166.1	Ca_Kabuli_Chr07	5655145	GG	TT	TT	URR	101490104	UDP-glucose flavonoid 3-O-glucosyltransferase 7-like
SNP_46529_A_5659433	NC_021166.1	Ca_Kabuli_Chr07	5659433	TT	AA	AA	URR	101489782	scopoletin glucosyltransferase
SNP_46530_A_5659447	NC_021166.1	Ca_Kabuli_Chr07	5659447	AA	GG	GG	URR	101489782	scopoletin glucosyltransferase
SNP_46531_A_5666894	NC_021166.1	Ca_Kabuli_Chr07	5666894	GG	AA	AA	URR	101489464	UDP-glucose flavonoid 3-O-glucosyltransferase 7
SNP_46533_A_5671807	NC_021166.1	Ca_Kabuli_Chr07	5671807	TT	CC	CC	INTERGENIC		
SNP_46534_A_5672729	NC_021166.1	Ca_Kabuli_Chr07	5672729	TT	GG	GG	DRR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46535_A_5672770	NC_021166.1	Ca_Kabuli_Chr07	5672770	CC	TT	TT	DRR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46536_A_5672782	NC_021166.1	Ca_Kabuli_Chr07	5672782	CC	GG	GG	DRR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46537_A_5672923	NC_021166.1	Ca_Kabuli_Chr07	5672923	GG	TT	TT	DRR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46538_A_5673134	NC_021166.1	Ca_Kabuli_Chr07	5673134	CC	TT	TT	DRR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46539_A_5675638	NC_021166.1	Ca_Kabuli_Chr07	5675638	TT	AA	AA	URR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46540_A_5675670	NC_021166.1	Ca_Kabuli_Chr07	5675670	AA	CC	CC	URR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46541_A_5675672	NC_021166.1	Ca_Kabuli_Chr07	5675672	AA	CC	CC	URR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46542_A_5675675	NC_021166.1	Ca_Kabuli_Chr07	5675675	GG	TT	TT	URR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46543_A_5675703	NC_021166.1	Ca_Kabuli_Chr07	5675703	GG	TT	TT	URR	101490428	F-box/kelch-repeat protein At3g23880-like
SNP_46544_A_5678992	NC_021166.1	Ca_Kabuli_Chr07	5678992	TT	CC	CC	INTRON	101490748	RNA polymerase I-specific transcription initiation factor RRN3-like
SNP_46545_A_5681490	NC_021166.1	Ca_Kabuli_Chr07	5681490	TT	CC	CC	INTERGENIC		
SNP_46546_A_5681516	NC_021166.1	Ca_Kabuli_Chr07	5681516	AA	GG	GG	INTERGENIC		
SNP_46547_A_5681542	NC_021166.1	Ca_Kabuli_Chr07	5681542	TT	CC	CC	INTERGENIC		
SNP_46549_A_5689280	NC_021166.1	Ca_Kabuli_Chr07	5689280	TT	CC	CC	URR	101491487	primary amine oxidase-like
SNP_46550_A_5689391	NC_021166.1	Ca_Kabuli_Chr07	5689391	CC	TT	TT	URR	101491487	primary amine oxidase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46551_A_5689417	NC_021166.1	Ca_Kabuli_Chr07	5689417	CC	TT	TT	URR	101491487	primary amine oxidase-like
SNP_46554_A_5699781	NC_021166.1	Ca_Kabuli_Chr07	5699781	TT	CC	CC	INTERGENIC		
SNP_46555_A_5699855	NC_021166.1	Ca_Kabuli_Chr07	5699855	AA	TT	TT	INTERGENIC		
SNP_46557_A_5704648	NC_021166.1	Ca_Kabuli_Chr07	5704648	GG	AA	AA	INTERGENIC		
SNP_46558_A_5712604	NC_021166.1	Ca_Kabuli_Chr07	5712604	CC	TT	TT	DRR	101492128	uncharacterized LOC101492128
SNP_46559_A_5713388	NC_021166.1	Ca_Kabuli_Chr07	5713388	GG	AA	AA	URR	101491799	primary amine oxidase-like
SNP_46560_A_5714715	NC_021166.1	Ca_Kabuli_Chr07	5714715	CC	TT	TT	URR	101491799	primary amine oxidase-like
SNP_46561_A_5718368	NC_021166.1	Ca_Kabuli_Chr07	5718368	AA	GG	GG	INTERGENIC		
SNP_46562_A_5719140	NC_021166.1	Ca_Kabuli_Chr07	5719140	GG	CC	CC	DRR	101492469	uncharacterized LOC101492469
SNP_46563_A_5719640	NC_021166.1	Ca_Kabuli_Chr07	5719640	AA	CC	CC	START_GAINED	101492469	uncharacterized LOC101492469
SNP_46564_A_5720058	NC_021166.1	Ca_Kabuli_Chr07	5720058	TT	CC	CC	INTRON	101492469	uncharacterized LOC101492469
SNP_46565_A_5721247	NC_021166.1	Ca_Kabuli_Chr07	5721247	CC	TT	TT	INTRON	101492469	uncharacterized LOC101492469
SNP_46566_A_5723107	NC_021166.1	Ca_Kabuli_Chr07	5723107	CC	TT	TT	INTRON	101492469	uncharacterized LOC101492469
SNP_46567_A_5725797	NC_021166.1	Ca_Kabuli_Chr07	5725797	AA	GG	GG	INTERGENIC		
SNP_46568_A_5728003	NC_021166.1	Ca_Kabuli_Chr07	5728003	TT	CC	CC	INTERGENIC		
SNP_46569_A_5728897	NC_021166.1	Ca_Kabuli_Chr07	5728897	AA	GG	GG	DRR	101492593	uncharacterized LOC101492593
SNP_46570_A_5745152	NC_021166.1	Ca_Kabuli_Chr07	5745152	AA	GG	GG	INTERGENIC		
SNP_46571_A_5745158	NC_021166.1	Ca_Kabuli_Chr07	5745158	GG	AA	AA	INTERGENIC		
SNP_46572_A_5745451	NC_021166.1	Ca_Kabuli_Chr07	5745451	GG	AA	AA	INTERGENIC		
SNP_46573_A_5745481	NC_021166.1	Ca_Kabuli_Chr07	5745481	GG	TT	TT	INTERGENIC		
SNP_46574_A_5745538	NC_021166.1	Ca_Kabuli_Chr07	5745538	AA	GG	GG	INTERGENIC		
SNP_46575_A_5745569	NC_021166.1	Ca_Kabuli_Chr07	5745569	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46577_A_5745587	NC_021166.1	Ca_Kabuli_Chr07	5745587	TT	CC	CC	INTERGENIC		
SNP_46578_A_5745589	NC_021166.1	Ca_Kabuli_Chr07	5745589	GG	AA	AA	INTERGENIC		
SNP_46579_A_5745610	NC_021166.1	Ca_Kabuli_Chr07	5745610	GG	TT	TT	INTERGENIC		
SNP_46580_A_5769567	NC_021166.1	Ca_Kabuli_Chr07	5769567	TT	CC	CC	INTERGENIC		
SNP_46581_A_5769569	NC_021166.1	Ca_Kabuli_Chr07	5769569	GG	AA	AA	INTERGENIC		
SNP_46582_A_5770688	NC_021166.1	Ca_Kabuli_Chr07	5770688	CC	AA	AA	INTERGENIC		
SNP_46583_A_5770944	NC_021166.1	Ca_Kabuli_Chr07	5770944	TT	CC	CC	INTERGENIC		
SNP_46584_A_5773012	NC_021166.1	Ca_Kabuli_Chr07	5773012	AA	GG	GG	SYNONYMOUS_CODING	101495167	endo-1,3;1,4-beta-D-glucanase-like
SNP_46585_A_5774491	NC_021166.1	Ca_Kabuli_Chr07	5774491	GG	AA	AA	INTRON	101495167	endo-1,3;1,4-beta-D-glucanase-like
SNP_46586_A_5778042	NC_021166.1	Ca_Kabuli_Chr07	5778042	CC	TT	TT	DRR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46587_A_5778243	NC_021166.1	Ca_Kabuli_Chr07	5778243	TT	CC	CC	DRR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46589_A_5778374	NC_021166.1	Ca_Kabuli_Chr07	5778374	AA	GG	GG	DRR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46591_A_5779321	NC_021166.1	Ca_Kabuli_Chr07	5779321	GG	TT	TT	INTRON	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46592_A_5780405	NC_021166.1	Ca_Kabuli_Chr07	5780405	GG	TT	TT	INTRON	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46593_A_5780954	NC_021166.1	Ca_Kabuli_Chr07	5780954	AA	GG	GG	INTRON	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46594_A_5782032	NC_021166.1	Ca_Kabuli_Chr07	5782032	TT	CC	CC	INTRON	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46595_A_5782051	NC_021166.1	Ca_Kabuli_Chr07	5782051	CC	TT	TT	INTRON	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46596_A_5783718	NC_021166.1	Ca_Kabuli_Chr07	5783718	CC	AA	AA	URR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46597_A_5783764	NC_021166.1	Ca_Kabuli_Chr07	5783764	CC	TT	TT	URR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46598_A_5783991	NC_021166.1	Ca_Kabuli_Chr07	5783991	GG	AA	AA	URR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46599_A_5784630	NC_021166.1	Ca_Kabuli_Chr07	5784630	CC	TT	TT	URR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46600_A_5784805	NC_021166.1	Ca_Kabuli_Chr07	5784805	AA	GG	GG	URR	101495492	ribonucleoside-diphosphate reductase small chain A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46601_A_5784842	NC_021166.1	Ca_Kabuli_Chr07	5784842	GG	AA	AA	URR	101495492	ribonucleoside-diphosphate reductase small chain A
SNP_46603_A_5785403	NC_021166.1	Ca_Kabuli_Chr07	5785403	CC	AA	AA	INTERGENIC		
SNP_46605_A_5786326	NC_021166.1	Ca_Kabuli_Chr07	5786326	AA	TT	TT	INTERGENIC		
SNP_46606_A_5786356	NC_021166.1	Ca_Kabuli_Chr07	5786356	AA	TT	TT	INTERGENIC		
SNP_46607_A_5787900	NC_021166.1	Ca_Kabuli_Chr07	5787900	CC	AA	AA	INTERGENIC		
SNP_46608_A_5787965	NC_021166.1	Ca_Kabuli_Chr07	5787965	TT	AA	AA	INTERGENIC		
SNP_46609_A_5792513	NC_021166.1	Ca_Kabuli_Chr07	5792513	TT	CC	CC	INTERGENIC		
SNP_46610_A_5794165	NC_021166.1	Ca_Kabuli_Chr07	5794165	TT	CC	CC	SYNONYMOUS_CODING	101495819	DUF21 domain-containing protein At4g14240-like
SNP_46611_A_5794903	NC_021166.1	Ca_Kabuli_Chr07	5794903	AA	GG	GG	SYNONYMOUS_CODING	101495819	DUF21 domain-containing protein At4g14240-like
SNP_46613_A_5800463	NC_021166.1	Ca_Kabuli_Chr07	5800463	TT	CC	CC	INTERGENIC		
SNP_46614_A_5800747	NC_021166.1	Ca_Kabuli_Chr07	5800747	CC	TT	TT	INTERGENIC		
SNP_46616_A_5801810	NC_021166.1	Ca_Kabuli_Chr07	5801810	AA	TT	TT	SYNONYMOUS_CODING	101496584	glycine-rich RNA-binding protein 4, mitochondrial
SNP_46617_A_5801822	NC_021166.1	Ca_Kabuli_Chr07	5801822	GG	TT	TT	SYNONYMOUS_CODING	101496584	glycine-rich RNA-binding protein 4, mitochondrial
SNP_46618_A_5807297	NC_021166.1	Ca_Kabuli_Chr07	5807297	TT	AA	AA	INTERGENIC		
SNP_46619_A_5810222	NC_021166.1	Ca_Kabuli_Chr07	5810222	GG	CC	CC	INTERGENIC		
SNP_46620_A_5811097	NC_021166.1	Ca_Kabuli_Chr07	5811097	AA	GG	GG	DRR	101496908	adenylate isopentenyltransferase 5, chloroplastic
SNP_46621_A_5811143	NC_021166.1	Ca_Kabuli_Chr07	5811143	GG	TT	TT	DRR	101496908	adenylate isopentenyltransferase 5, chloroplastic
SNP_46622_A_5811165	NC_021166.1	Ca_Kabuli_Chr07	5811165	AA	CC	CC	DRR	101496908	adenylate isopentenyltransferase 5, chloroplastic
SNP_46623_A_5813885	NC_021166.1	Ca_Kabuli_Chr07	5813885	TT	CC	CC	URR	101496908	adenylate isopentenyltransferase 5, chloroplastic
SNP_46624_A_5817354	NC_021166.1	Ca_Kabuli_Chr07	5817354	CC	AA	AA	INTERGENIC		
SNP_46625_A_5819129	NC_021166.1	Ca_Kabuli_Chr07	5819129	GG	AA	AA	INTERGENIC		
SNP_46626_A_5820281	NC_021166.1	Ca_Kabuli_Chr07	5820281	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46627_A_5820738	NC_021166.1	Ca_Kabuli_Chr07	5820738	GG	CC	CC	INTERGENIC		
SNP_46628_A_5821923	NC_021166.1	Ca_Kabuli_Chr07	5821923	AA	CC	CC	INTERGENIC		
SNP_46629_A_5824849	NC_021166.1	Ca_Kabuli_Chr07	5824849	GG	AA	AA	INTERGENIC		
SNP_46630_A_5825151	NC_021166.1	Ca_Kabuli_Chr07	5825151	TT	CC	CC	INTERGENIC		
SNP_46631_A_5826814	NC_021166.1	Ca_Kabuli_Chr07	5826814	AA	TT	TT	INTERGENIC		
SNP_46632_A_5827780	NC_021166.1	Ca_Kabuli_Chr07	5827780	AA	GG	GG	INTERGENIC		
SNP_46633_A_5827967	NC_021166.1	Ca_Kabuli_Chr07	5827967	TT	CC	CC	INTERGENIC		
SNP_46634_A_5828025	NC_021166.1	Ca_Kabuli_Chr07	5828025	CC	TT	TT	INTERGENIC		
SNP_46635_A_5828027	NC_021166.1	Ca_Kabuli_Chr07	5828027	AA	TT	TT	INTERGENIC		
SNP_46636_A_5828040	NC_021166.1	Ca_Kabuli_Chr07	5828040	TT	CC	CC	INTERGENIC		
SNP_46637_A_5828045	NC_021166.1	Ca_Kabuli_Chr07	5828045	CC	TT	TT	INTERGENIC		
SNP_46638_A_5828324	NC_021166.1	Ca_Kabuli_Chr07	5828324	CC	TT	TT	INTERGENIC		
SNP_46639_A_5828413	NC_021166.1	Ca_Kabuli_Chr07	5828413	GG	AA	AA	INTERGENIC		
SNP_46640_A_5830342	NC_021166.1	Ca_Kabuli_Chr07	5830342	CC	TT	TT	NON_SYNONYMOUS_CODING	id160123	Unknown function
SNP_46641_A_5830865	NC_021166.1	Ca_Kabuli_Chr07	5830865	CC	TT	TT	INTRON	101497232	UPF0613 protein PB24D3.06c
SNP_46642_A_5833033	NC_021166.1	Ca_Kabuli_Chr07	5833033	CC	TT	TT	INTRON	101497232	UPF0613 protein PB24D3.06c
SNP_46643_A_5834238	NC_021166.1	Ca_Kabuli_Chr07	5834238	CC	GG	GG	INTRON	101497232	UPF0613 protein PB24D3.06c
SNP_46644_A_5838207	NC_021166.1	Ca_Kabuli_Chr07	5838207	AA	GG	GG	URR	101497232	UPF0613 protein PB24D3.06c
SNP_46645_A_5838531	NC_021166.1	Ca_Kabuli_Chr07	5838531	AA	GG	GG	DRR	101497658	uncharacterized LOC101497658
SNP_46646_A_5838532	NC_021166.1	Ca_Kabuli_Chr07	5838532	GG	AA	AA	DRR	101497658	uncharacterized LOC101497658
SNP_46647_A_5838773	NC_021166.1	Ca_Kabuli_Chr07	5838773	AA	CC	CC	DRR	101497658	uncharacterized LOC101497658
SNP_46648_A_5838783	NC_021166.1	Ca_Kabuli_Chr07	5838783	GG	TT	TT	DRR	101497658	uncharacterized LOC101497658

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46649_A_5838793	NC_021166.1	Ca_Kabuli_Chr07	5838793	AA	TT	TT	DRR	101497658	uncharacterized LOC101497658
SNP_46650_A_5838969	NC_021166.1	Ca_Kabuli_Chr07	5838969	GG	AA	AA	DRR	101497658	uncharacterized LOC101497658
SNP_46651_A_5839950	NC_021166.1	Ca_Kabuli_Chr07	5839950	AA	CC	CC	INTERGENIC		
SNP_46652_A_5841207	NC_021166.1	Ca_Kabuli_Chr07	5841207	CC	TT	TT	INTERGENIC		
SNP_46655_A_5843664	NC_021166.1	Ca_Kabuli_Chr07	5843664	TT	AA	AA	DRR	101497990	transmembrane protein 64
SNP_46656_A_5843911	NC_021166.1	Ca_Kabuli_Chr07	5843911	TT	AA	AA	DRR	101497990	transmembrane protein 64
SNP_46657_A_5843932	NC_021166.1	Ca_Kabuli_Chr07	5843932	GG	AA	AA	DRR	101497990	transmembrane protein 64
SNP_46658_A_5846477	NC_021166.1	Ca_Kabuli_Chr07	5846477	AA	GG	GG	INTERGENIC		
SNP_46659_A_5848823	NC_021166.1	Ca_Kabuli_Chr07	5848823	CC	TT	TT	DRR	101498543	uncharacterized LOC101498543
SNP_46660_A_5850383	NC_021166.1	Ca_Kabuli_Chr07	5850383	GG	TT	TT	URR	101497990	transmembrane protein 64
SNP_46661_A_5850504	NC_021166.1	Ca_Kabuli_Chr07	5850504	CC	TT	TT	URR	101497990	transmembrane protein 64
SNP_46662_A_5850658	NC_021166.1	Ca_Kabuli_Chr07	5850658	AA	GG	GG	URR	101498543	uncharacterized LOC101498543
SNP_46663_A_5856954	NC_021166.1	Ca_Kabuli_Chr07	5856954	AA	GG	GG	URR	101498881	protein BUD31 homolog 2-like
SNP_46664_A_5858601	NC_021166.1	Ca_Kabuli_Chr07	5858601	TT	CC	CC	INTERGENIC		
SNP_46666_A_5858844	NC_021166.1	Ca_Kabuli_Chr07	5858844	AA	TT	TT	INTERGENIC		
SNP_46667_A_5859725	NC_021166.1	Ca_Kabuli_Chr07	5859725	AA	CC	CC	INTERGENIC		
SNP_46668_A_5861237	NC_021166.1	Ca_Kabuli_Chr07	5861237	CC	TT	TT	INTERGENIC		
SNP_46669_A_5870867	NC_021166.1	Ca_Kabuli_Chr07	5870867	GG	CC	CC	INTERGENIC		
SNP_46670_A_5870876	NC_021166.1	Ca_Kabuli_Chr07	5870876	TT	AA	AA	INTERGENIC		
SNP_46672_A_5871597	NC_021166.1	Ca_Kabuli_Chr07	5871597	GG	AA	AA	INTERGENIC		
SNP_46673_A_5871659	NC_021166.1	Ca_Kabuli_Chr07	5871659	TT	CC	CC	INTERGENIC		
SNP_46674_A_5871660	NC_021166.1	Ca_Kabuli_Chr07	5871660	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_46677_A_5872241	NC_021166.1	Ca_Kabuli_Chr07	5872241	AA	GG	GG	INTERGENIC			
SNP_46678_A_5872272	NC_021166.1	Ca_Kabuli_Chr07	5872272	AA	GG	GG	INTERGENIC			
SNP_46679_A_5872788	NC_021166.1	Ca_Kabuli_Chr07	5872788	TT	CC	CC	INTERGENIC			
SNP_46680_A_5872806	NC_021166.1	Ca_Kabuli_Chr07	5872806	TT	AA	AA	INTERGENIC			
SNP_46681_A_5874389	NC_021166.1	Ca_Kabuli_Chr07	5874389	AA	TT	TT	INTERGENIC			
SNP_46682_A_5874403	NC_021166.1	Ca_Kabuli_Chr07	5874403	CC	AA	AA	INTERGENIC			
SNP_46683_A_5874408	NC_021166.1	Ca_Kabuli_Chr07	5874408	CC	TT	TT	INTERGENIC			
SNP_46684_A_5874610	NC_021166.1	Ca_Kabuli_Chr07	5874610	TT	CC	CC	INTERGENIC			
SNP_46685_A_5874622	NC_021166.1	Ca_Kabuli_Chr07	5874622	CC	TT	TT	INTERGENIC			
SNP_46686_A_5874638	NC_021166.1	Ca_Kabuli_Chr07	5874638	GG	TT	TT	INTERGENIC			
SNP_46688_A_5876025	NC_021166.1	Ca_Kabuli_Chr07	5876025	GG	TT	TT	INTERGENIC			
SNP_46689_A_5877837	NC_021166.1	Ca_Kabuli_Chr07	5877837	TT	AA	AA	INTERGENIC			
SNP_46690_A_5881512	NC_021166.1	Ca_Kabuli_Chr07	5881512	AA	GG	GG	INTRON	101499521		dual specificity protein phosphatase 1
SNP_46691_A_5881942	NC_021166.1	Ca_Kabuli_Chr07	5881942	AA	GG	GG	INTRON	101499521		dual specificity protein phosphatase 1
SNP_46692_A_5881951	NC_021166.1	Ca_Kabuli_Chr07	5881951	TT	CC	CC	INTRON	101499521		dual specificity protein phosphatase 1
SNP_46693_A_5881959	NC_021166.1	Ca_Kabuli_Chr07	5881959	AA	GG	GG	INTRON	101499521		dual specificity protein phosphatase 1
SNP_46695_A_5884725	NC_021166.1	Ca_Kabuli_Chr07	5884725	AA	GG	GG	URR	101499521		dual specificity protein phosphatase 1
SNP_46696_A_5887541	NC_021166.1	Ca_Kabuli_Chr07	5887541	TT	AA	AA	DRR	101500045		basic 7S globulin-like
SNP_46697_A_5888757	NC_021166.1	Ca_Kabuli_Chr07	5888757	AA	CC	CC	NON_SYNONYMOUS_CODING	101500045		basic 7S globulin-like
SNP_46699_A_5889257	NC_021166.1	Ca_Kabuli_Chr07	5889257	AA	GG	GG	URR	101500045		basic 7S globulin-like
SNP_46700_A_5889405	NC_021166.1	Ca_Kabuli_Chr07	5889405	TT	GG	GG	URR	101500045		basic 7S globulin-like
SNP_46701_A_5889426	NC_021166.1	Ca_Kabuli_Chr07	5889426	TT	CC	CC	URR	101500045		basic 7S globulin-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46702_A_5889887	NC_021166.1	Ca_Kabuli_Chr07	5889887	AA	TT	TT	URR	101500045	basic 7S globulin-like
SNP_46703_A_5889934	NC_021166.1	Ca_Kabuli_Chr07	5889934	AA	CC	CC	URR	101500045	basic 7S globulin-like
SNP_46704_A_5889955	NC_021166.1	Ca_Kabuli_Chr07	5889955	GG	AA	AA	URR	101500045	basic 7S globulin-like
SNP_46705_A_5890074	NC_021166.1	Ca_Kabuli_Chr07	5890074	TT	AA	AA	URR	101500045	basic 7S globulin-like
SNP_46707_A_5890611	NC_021166.1	Ca_Kabuli_Chr07	5890611	TT	AA	AA	URR	101500045	basic 7S globulin-like
SNP_46708_A_5891468	NC_021166.1	Ca_Kabuli_Chr07	5891468	TT	AA	AA	INTERGENIC		
SNP_46709_A_5891850	NC_021166.1	Ca_Kabuli_Chr07	5891850	GG	TT	TT	INTERGENIC		
SNP_46712_A_5894767	NC_021166.1	Ca_Kabuli_Chr07	5894767	TT	CC	CC	INTERGENIC		
SNP_46714_A_5894993	NC_021166.1	Ca_Kabuli_Chr07	5894993	TT	CC	CC	INTERGENIC		
SNP_46716_A_5899978	NC_021166.1	Ca_Kabuli_Chr07	5899978	AA	GG	GG	INTERGENIC		
SNP_46717_A_5899982	NC_021166.1	Ca_Kabuli_Chr07	5899982	AA	GG	GG	INTERGENIC		
SNP_46718_A_5900306	NC_021166.1	Ca_Kabuli_Chr07	5900306	CC	TT	TT	INTERGENIC		
SNP_46719_A_5901083	NC_021166.1	Ca_Kabuli_Chr07	5901083	GG	AA	AA	INTERGENIC		
SNP_46720_A_5901919	NC_021166.1	Ca_Kabuli_Chr07	5901919	GG	AA	AA	INTERGENIC		
SNP_46721_A_5904061	NC_021166.1	Ca_Kabuli_Chr07	5904061	AA	GG	GG	INTERGENIC		
SNP_46722_A_5904276	NC_021166.1	Ca_Kabuli_Chr07	5904276	GG	TT	TT	DRR	101500379	stem-specific protein TSJT1
SNP_46723_A_5904280	NC_021166.1	Ca_Kabuli_Chr07	5904280	GG	AA	AA	DRR	101500379	stem-specific protein TSJT1
SNP_46724_A_5906849	NC_021166.1	Ca_Kabuli_Chr07	5906849	TT	CC	CC	INTRON	101500379	stem-specific protein TSJT1
SNP_46725_A_5907578	NC_021166.1	Ca_Kabuli_Chr07	5907578	CC	GG	GG	INTRON	101500379	stem-specific protein TSJT1
SNP_46726_A_5914248	NC_021166.1	Ca_Kabuli_Chr07	5914248	CC	TT	TT	INTRON	101500690	cysteine-rich receptor-like protein kinase 25
SNP_46727_A_5914266	NC_021166.1	Ca_Kabuli_Chr07	5914266	CC	TT	TT	INTRON	101500690	cysteine-rich receptor-like protein kinase 25
SNP_46728_A_5914274	NC_021166.1	Ca_Kabuli_Chr07	5914274	AA	CC	CC	INTRON	101500690	cysteine-rich receptor-like protein kinase 25

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46729_A_5914283	NC_021166.1	Ca_Kabuli_Chr07	5914283	AA	GG	GG	INTRON	101500690	cysteine-rich receptor-like protein kinase 25
SNP_46731_A_5918429	NC_021166.1	Ca_Kabuli_Chr07	5918429	GG	AA	AA	INTERGENIC		
SNP_46732_A_5920252	NC_021166.1	Ca_Kabuli_Chr07	5920252	CC	TT	TT	DRR	101501854	DCN1-like protein 5
SNP_46733_A_5932415	NC_021166.1	Ca_Kabuli_Chr07	5932415	CC	TT	TT	SYNONYMOUS_CODING	101501318	ATPase 8, plasma membrane-type-like
SNP_46735_A_5935839	NC_021166.1	Ca_Kabuli_Chr07	5935839	CC	TT	TT	INTERGENIC		
SNP_46736_A_5935998	NC_021166.1	Ca_Kabuli_Chr07	5935998	AA	GG	GG	INTERGENIC		
SNP_46737_A_5936000	NC_021166.1	Ca_Kabuli_Chr07	5936000	GG	TT	TT	INTERGENIC		
SNP_46738_A_5936189	NC_021166.1	Ca_Kabuli_Chr07	5936189	TT	CC	CC	INTERGENIC		
SNP_46739_A_5936195	NC_021166.1	Ca_Kabuli_Chr07	5936195	AA	GG	GG	INTERGENIC		
SNP_46740_A_5936936	NC_021166.1	Ca_Kabuli_Chr07	5936936	AA	TT	TT	INTERGENIC		
SNP_46741_A_5936939	NC_021166.1	Ca_Kabuli_Chr07	5936939	GG	AA	AA	INTERGENIC		
SNP_46742_A_5936978	NC_021166.1	Ca_Kabuli_Chr07	5936978	GG	AA	AA	INTERGENIC		
SNP_46743_A_5937314	NC_021166.1	Ca_Kabuli_Chr07	5937314	AA	GG	GG	INTERGENIC		
SNP_46744_A_5937336	NC_021166.1	Ca_Kabuli_Chr07	5937336	TT	AA	AA	INTERGENIC		
SNP_46745_A_5937595	NC_021166.1	Ca_Kabuli_Chr07	5937595	CC	TT	TT	INTERGENIC		
SNP_46746_A_5937758	NC_021166.1	Ca_Kabuli_Chr07	5937758	CC	AA	AA	INTERGENIC		
SNP_46747_A_5937761	NC_021166.1	Ca_Kabuli_Chr07	5937761	TT	CC	CC	INTERGENIC		
SNP_46748_A_5937769	NC_021166.1	Ca_Kabuli_Chr07	5937769	GG	AA	AA	INTERGENIC		
SNP_46749_A_5937773	NC_021166.1	Ca_Kabuli_Chr07	5937773	CC	AA	AA	INTERGENIC		
SNP_46750_A_5937972	NC_021166.1	Ca_Kabuli_Chr07	5937972	AA	GG	GG	INTERGENIC		
SNP_46751_A_5940324	NC_021166.1	Ca_Kabuli_Chr07	5940324	CC	TT	TT	DRR	101502177	WD repeat-containing protein 76
SNP_46752_A_5944125	NC_021166.1	Ca_Kabuli_Chr07	5944125	GG	TT	TT	URR	101502177	WD repeat-containing protein 76

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_46753_A_5945024	NC_021166.1	Ca_Kabuli_Chr07	5945024	TT	GG	GG	DRR		101502490	DNA replication licensing factor MCM5
SNP_46754_A_5951922	NC_021166.1	Ca_Kabuli_Chr07	5951922	TT	CC	CC	URR		101502490	DNA replication licensing factor MCM5
SNP_46755_A_5951949	NC_021166.1	Ca_Kabuli_Chr07	5951949	GG	AA	AA	URR		101502490	DNA replication licensing factor MCM5
SNP_46756_A_5951972	NC_021166.1	Ca_Kabuli_Chr07	5951972	TT	GG	GG	URR		101502490	DNA replication licensing factor MCM5
SNP_46757_A_5952436	NC_021166.1	Ca_Kabuli_Chr07	5952436	AA	GG	GG	DRR		101502793	dicer-like protein 4
SNP_46758_A_5952445	NC_021166.1	Ca_Kabuli_Chr07	5952445	TT	GG	GG	DRR		101502793	dicer-like protein 4
SNP_46759_A_5952456	NC_021166.1	Ca_Kabuli_Chr07	5952456	TT	CC	CC	DRR		101502793	dicer-like protein 4
SNP_46760_A_5952474	NC_021166.1	Ca_Kabuli_Chr07	5952474	CC	TT	TT	DRR		101502793	dicer-like protein 4
SNP_46761_A_5952482	NC_021166.1	Ca_Kabuli_Chr07	5952482	GG	CC	CC	DRR		101502793	dicer-like protein 4
SNP_46762_A_5952484	NC_021166.1	Ca_Kabuli_Chr07	5952484	AA	GG	GG	DRR		101502793	dicer-like protein 4
SNP_46764_A_5954831	NC_021166.1	Ca_Kabuli_Chr07	5954831	TT	GG	GG	INTRON		101502793	dicer-like protein 4
SNP_46765_A_5955414	NC_021166.1	Ca_Kabuli_Chr07	5955414	GG	AA	AA	INTRON		101502793	dicer-like protein 4
SNP_46767_A_5958745	NC_021166.1	Ca_Kabuli_Chr07	5958745	AA	GG	GG	INTRON		101502793	dicer-like protein 4
SNP_46768_A_5959832	NC_021166.1	Ca_Kabuli_Chr07	5959832	AA	GG	GG	INTRON		101502793	dicer-like protein 4
SNP_46769_A_5960144	NC_021166.1	Ca_Kabuli_Chr07	5960144	GG	CC	CC	INTRON		101502793	dicer-like protein 4
SNP_46770_A_5960152	NC_021166.1	Ca_Kabuli_Chr07	5960152	TT	CC	CC	INTRON		101502793	dicer-like protein 4
SNP_46771_A_5960334	NC_021166.1	Ca_Kabuli_Chr07	5960334	AA	GG	GG	INTRON		101502793	dicer-like protein 4
SNP_46772_A_5960368	NC_021166.1	Ca_Kabuli_Chr07	5960368	CC	TT	TT	INTRON		101502793	dicer-like protein 4
SNP_46774_A_5975441	NC_021166.1	Ca_Kabuli_Chr07	5975441	GG	AA	AA	URR		101502793	dicer-like protein 4
SNP_46775_A_5975492	NC_021166.1	Ca_Kabuli_Chr07	5975492	GG	AA	AA	URR		101502793	dicer-like protein 4
SNP_46776_A_5975817	NC_021166.1	Ca_Kabuli_Chr07	5975817	AA	GG	GG	URR		101502793	dicer-like protein 4
SNP_46777_A_5976069	NC_021166.1	Ca_Kabuli_Chr07	5976069	CC	TT	TT	URR		101502793	dicer-like protein 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46778_A_5976087	NC_021166.1	Ca_Kabuli_Chr07	5976087	AA	TT	TT	URR	101502793	dicer-like protein 4
SNP_46780_A_5978889	NC_021166.1	Ca_Kabuli_Chr07	5978889	TT	GG	GG	DRR	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46782_A_5983905	NC_021166.1	Ca_Kabuli_Chr07	5983905	TT	CC	CC	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46783_A_5984537	NC_021166.1	Ca_Kabuli_Chr07	5984537	TT	AA	AA	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46784_A_5988875	NC_021166.1	Ca_Kabuli_Chr07	5988875	GG	CC	CC	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46785_A_5989143	NC_021166.1	Ca_Kabuli_Chr07	5989143	CC	TT	TT	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46787_A_5989816	NC_021166.1	Ca_Kabuli_Chr07	5989816	CC	TT	TT	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46788_A_5990995	NC_021166.1	Ca_Kabuli_Chr07	5990995	CC	TT	TT	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46789_A_5991353	NC_021166.1	Ca_Kabuli_Chr07	5991353	AA	CC	CC	INTRON	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46792_A_5996051	NC_021166.1	Ca_Kabuli_Chr07	5996051	CC	TT	TT	URR	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46793_A_5996156	NC_021166.1	Ca_Kabuli_Chr07	5996156	CC	TT	TT	URR	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46794_A_5997023	NC_021166.1	Ca_Kabuli_Chr07	5997023	GG	TT	TT	URR	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46795_A_5997237	NC_021166.1	Ca_Kabuli_Chr07	5997237	CC	AA	AA	URR	101503113	protein ENHANCED DISEASE RESISTANCE 2
SNP_46796_A_5997298	NC_021166.1	Ca_Kabuli_Chr07	5997298	TT	CC	CC	INTERGENIC		
SNP_46797_A_5997478	NC_021166.1	Ca_Kabuli_Chr07	5997478	AA	GG	GG	INTERGENIC		
SNP_46798_A_5999940	NC_021166.1	Ca_Kabuli_Chr07	5999940	CC	TT	TT	NON_SYNONYMOUS_CODING	101492921	uncharacterized LOC101492921
SNP_46800_A_6000960	NC_021166.1	Ca_Kabuli_Chr07	6000960	AA	TT	TT	URR	101492921	uncharacterized LOC101492921
SNP_46801_A_6004143	NC_021166.1	Ca_Kabuli_Chr07	6004143	GG	CC	CC	INTERGENIC		
SNP_46802_A_6005909	NC_021166.1	Ca_Kabuli_Chr07	6005909	GG	AA	AA	INTERGENIC		
SNP_46803_A_6007315	NC_021166.1	Ca_Kabuli_Chr07	6007315	GG	TT	TT	DRR	101503439	uncharacterized LOC101503439
SNP_46805_A_6010578	NC_021166.1	Ca_Kabuli_Chr07	6010578	TT	AA	AA	URR	101503439	uncharacterized LOC101503439
SNP_46806_A_6015214	NC_021166.1	Ca_Kabuli_Chr07	6015214	GG	AA	AA	URR	101503779	sugar transport protein 7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46807_A_6015281	NC_021166.1	Ca_Kabuli_Chr07	6015281	CC	TT	TT	URR	101503779	sugar transport protein 7-like
SNP_46808_A_6015859	NC_021166.1	Ca_Kabuli_Chr07	6015859	AA	TT	TT	URR	101503779	sugar transport protein 7-like
SNP_46810_A_6016733	NC_021166.1	Ca_Kabuli_Chr07	6016733	TT	GG	GG	URR	101503779	sugar transport protein 7-like
SNP_46811_A_6016737	NC_021166.1	Ca_Kabuli_Chr07	6016737	AA	TT	TT	URR	101503779	sugar transport protein 7-like
SNP_46812_A_6016738	NC_021166.1	Ca_Kabuli_Chr07	6016738	AA	TT	TT	URR	101503779	sugar transport protein 7-like
SNP_46813_A_6016908	NC_021166.1	Ca_Kabuli_Chr07	6016908	TT	AA	AA	URR	101503779	sugar transport protein 7-like
SNP_46814_A_6016909	NC_021166.1	Ca_Kabuli_Chr07	6016909	GG	AA	AA	URR	101503779	sugar transport protein 7-like
SNP_46815_A_6017216	NC_021166.1	Ca_Kabuli_Chr07	6017216	AA	CC	CC	INTERGENIC		
SNP_46816_A_6018225	NC_021166.1	Ca_Kabuli_Chr07	6018225	GG	TT	TT	INTERGENIC		
SNP_46818_A_6018283	NC_021166.1	Ca_Kabuli_Chr07	6018283	AA	GG	GG	INTERGENIC		
SNP_46821_A_6021483	NC_021166.1	Ca_Kabuli_Chr07	6021483	TT	CC	CC	DRR	101504310	sugar transport protein 7-like
SNP_46825_A_6021928	NC_021166.1	Ca_Kabuli_Chr07	6021928	AA	CC	CC	DRR	101504310	sugar transport protein 7-like
SNP_46826_A_6021929	NC_021166.1	Ca_Kabuli_Chr07	6021929	CC	TT	TT	DRR	101504310	sugar transport protein 7-like
SNP_46827_A_6021949	NC_021166.1	Ca_Kabuli_Chr07	6021949	TT	AA	AA	DRR	101504310	sugar transport protein 7-like
SNP_46828_A_6023782	NC_021166.1	Ca_Kabuli_Chr07	6023782	AA	GG	GG	INTRON	101504310	sugar transport protein 7-like
SNP_46829_A_6024772	NC_021166.1	Ca_Kabuli_Chr07	6024772	AA	TT	TT	INTERGENIC		
SNP_46831_A_6025936	NC_021166.1	Ca_Kabuli_Chr07	6025936	GG	TT	TT	URR	101504310	sugar transport protein 7-like
SNP_46832_A_6025937	NC_021166.1	Ca_Kabuli_Chr07	6025937	GG	AA	AA	URR	101504310	sugar transport protein 7-like
SNP_46833_A_6028640	NC_021166.1	Ca_Kabuli_Chr07	6028640	CC	AA	AA	DRR	101504856	transmembrane 9 superfamily member 11
SNP_46834_A_6028962	NC_021166.1	Ca_Kabuli_Chr07	6028962	TT	GG	GG	INTERGENIC		
SNP_46835_A_6032038	NC_021166.1	Ca_Kabuli_Chr07	6032038	GG	AA	AA	URR	101504856	transmembrane 9 superfamily member 11
SNP_46836_A_6032341	NC_021166.1	Ca_Kabuli_Chr07	6032341	GG	AA	AA	URR	101504856	transmembrane 9 superfamily member 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46837_A_6032354	NC_021166.1	Ca_Kabuli_Chr07	6032354	TT	AA	AA	URR	101504856	transmembrane 9 superfamily member 11
SNP_46838_A_6032678	NC_021166.1	Ca_Kabuli_Chr07	6032678	TT	AA	AA	URR	101504856	transmembrane 9 superfamily member 11
SNP_46841_A_6034177	NC_021166.1	Ca_Kabuli_Chr07	6034177	AA	GG	GG	DRR	101505169	dentin sialophosphoprotein
SNP_46842_A_6035174	NC_021166.1	Ca_Kabuli_Chr07	6035174	CC	GG	GG	INTERGENIC		
SNP_46843_A_6037478	NC_021166.1	Ca_Kabuli_Chr07	6037478	AA	GG	GG	INTRON	101505169	dentin sialophosphoprotein
SNP_46844_A_6037488	NC_021166.1	Ca_Kabuli_Chr07	6037488	CC	TT	TT	INTRON	101505169	dentin sialophosphoprotein
SNP_46845_A_6040910	NC_021166.1	Ca_Kabuli_Chr07	6040910	GG	AA	AA	INTRON	101505169	dentin sialophosphoprotein
SNP_46846_A_6040924	NC_021166.1	Ca_Kabuli_Chr07	6040924	GG	AA	AA	INTRON	101505169	dentin sialophosphoprotein
SNP_46847_A_6040981	NC_021166.1	Ca_Kabuli_Chr07	6040981	TT	CC	CC	INTRON	101505169	dentin sialophosphoprotein
SNP_46848_A_6043937	NC_021166.1	Ca_Kabuli_Chr07	6043937	GG	AA	AA	INTERGENIC		
SNP_46849_A_6044026	NC_021166.1	Ca_Kabuli_Chr07	6044026	TT	CC	CC	INTERGENIC		
SNP_46850_A_6044285	NC_021166.1	Ca_Kabuli_Chr07	6044285	GG	AA	AA	INTERGENIC		
SNP_46851_A_6044292	NC_021166.1	Ca_Kabuli_Chr07	6044292	TT	GG	GG	INTERGENIC		
SNP_46852_A_6044296	NC_021166.1	Ca_Kabuli_Chr07	6044296	CC	TT	TT	INTERGENIC		
SNP_46854_A_6044341	NC_021166.1	Ca_Kabuli_Chr07	6044341	GG	AA	AA	INTERGENIC		
SNP_46855_A_6044377	NC_021166.1	Ca_Kabuli_Chr07	6044377	AA	GG	GG	INTERGENIC		
SNP_46856_A_6044413	NC_021166.1	Ca_Kabuli_Chr07	6044413	GG	TT	TT	INTERGENIC		
SNP_46857_A_6044555	NC_021166.1	Ca_Kabuli_Chr07	6044555	CC	TT	TT	INTERGENIC		
SNP_46858_A_6044564	NC_021166.1	Ca_Kabuli_Chr07	6044564	GG	AA	AA	INTERGENIC		
SNP_46859_A_6044578	NC_021166.1	Ca_Kabuli_Chr07	6044578	GG	AA	AA	INTERGENIC		
SNP_46860_A_6044581	NC_021166.1	Ca_Kabuli_Chr07	6044581	GG	AA	AA	INTERGENIC		
SNP_46861_A_6046976	NC_021166.1	Ca_Kabuli_Chr07	6046976	CC	GG	GG	DRR	101505483	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46862_A_6046986	NC_021166.1	Ca_Kabuli_Chr07	6046986	TT	CC	CC	DRR	101505483	Unknown function
SNP_46863_A_6048790	NC_021166.1	Ca_Kabuli_Chr07	6048790	CC	AA	AA	URR	101505483	Unknown function
SNP_46864_A_6049732	NC_021166.1	Ca_Kabuli_Chr07	6049732	TT	GG	GG	URR	101505483	Unknown function
SNP_46865_A_6049734	NC_021166.1	Ca_Kabuli_Chr07	6049734	AA	GG	GG	URR	101505483	Unknown function
SNP_46866_A_6055455	NC_021166.1	Ca_Kabuli_Chr07	6055455	TT	CC	CC	INTERGENIC		
SNP_46867_A_6055472	NC_021166.1	Ca_Kabuli_Chr07	6055472	AA	CC	CC	INTERGENIC		
SNP_46870_A_6056403	NC_021166.1	Ca_Kabuli_Chr07	6056403	GG	TT	TT	INTERGENIC		
SNP_46871_A_6058510	NC_021166.1	Ca_Kabuli_Chr07	6058510	CC	AA	AA	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46872_A_6058539	NC_021166.1	Ca_Kabuli_Chr07	6058539	AA	GG	GG	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46873_A_6058577	NC_021166.1	Ca_Kabuli_Chr07	6058577	AA	TT	TT	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46874_A_6058970	NC_021166.1	Ca_Kabuli_Chr07	6058970	GG	TT	TT	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46875_A_6058973	NC_021166.1	Ca_Kabuli_Chr07	6058973	GG	AA	AA	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46876_A_6059002	NC_021166.1	Ca_Kabuli_Chr07	6059002	CC	GG	GG	INTRON	101493571	homeobox protein knotted-1-like 4
SNP_46879_A_6060905	NC_021166.1	Ca_Kabuli_Chr07	6060905	AA	CC	CC	INTERGENIC		
SNP_46880_A_6060961	NC_021166.1	Ca_Kabuli_Chr07	6060961	AA	GG	GG	INTERGENIC		
SNP_46881_A_6060963	NC_021166.1	Ca_Kabuli_Chr07	6060963	TT	CC	CC	INTERGENIC		
SNP_46882_A_6061068	NC_021166.1	Ca_Kabuli_Chr07	6061068	GG	AA	AA	INTERGENIC		
SNP_46883_A_6061115	NC_021166.1	Ca_Kabuli_Chr07	6061115	AA	TT	TT	INTERGENIC		
SNP_46884_A_6061126	NC_021166.1	Ca_Kabuli_Chr07	6061126	TT	CC	CC	INTERGENIC		
SNP_46886_A_6065915	NC_021166.1	Ca_Kabuli_Chr07	6065915	TT	CC	CC	DRR	101506133	uncharacterized LOC101506133
SNP_46887_A_6065924	NC_021166.1	Ca_Kabuli_Chr07	6065924	GG	AA	AA	DRR	101506133	uncharacterized LOC101506133
SNP_46888_A_6078557	NC_021166.1	Ca_Kabuli_Chr07	6078557	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46889_A_6079444	NC_021166.1	Ca_Kabuli_Chr07	6079444	GG	AA	AA	INTERGENIC		
SNP_46890_A_6080946	NC_021166.1	Ca_Kabuli_Chr07	6080946	TT	AA	AA	INTERGENIC		
SNP_46892_A_6082116	NC_021166.1	Ca_Kabuli_Chr07	6082116	TT	CC	CC	INTERGENIC		
SNP_46893_A_6082118	NC_021166.1	Ca_Kabuli_Chr07	6082118	CC	AA	AA	INTERGENIC		
SNP_46894_A_6082129	NC_021166.1	Ca_Kabuli_Chr07	6082129	GG	AA	AA	INTERGENIC		
SNP_46895_A_6082138	NC_021166.1	Ca_Kabuli_Chr07	6082138	CC	GG	GG	INTERGENIC		
SNP_46896_A_6082139	NC_021166.1	Ca_Kabuli_Chr07	6082139	CC	TT	TT	INTERGENIC		
SNP_46897_A_6082468	NC_021166.1	Ca_Kabuli_Chr07	6082468	TT	CC	CC	INTERGENIC		
SNP_46899_A_6083912	NC_021166.1	Ca_Kabuli_Chr07	6083912	TT	GG	GG	INTERGENIC		
SNP_46900_A_6091125	NC_021166.1	Ca_Kabuli_Chr07	6091125	AA	GG	GG	URR	101506464	uncharacterized LOC101506464
SNP_46901_A_6091156	NC_021166.1	Ca_Kabuli_Chr07	6091156	GG	AA	AA	URR	101506464	uncharacterized LOC101506464
SNP_46902_A_6091159	NC_021166.1	Ca_Kabuli_Chr07	6091159	GG	AA	AA	URR	101506464	uncharacterized LOC101506464
SNP_46903_A_6091174	NC_021166.1	Ca_Kabuli_Chr07	6091174	CC	TT	TT	URR	101506464	uncharacterized LOC101506464
SNP_46904_A_6091578	NC_021166.1	Ca_Kabuli_Chr07	6091578	GG	TT	TT	URR	101506464	uncharacterized LOC101506464
SNP_46905_A_6091701	NC_021166.1	Ca_Kabuli_Chr07	6091701	GG	AA	AA	URR	101506464	uncharacterized LOC101506464
SNP_46906_A_6091824	NC_021166.1	Ca_Kabuli_Chr07	6091824	TT	CC	CC	URR	101506464	uncharacterized LOC101506464
SNP_46907_A_6092030	NC_021166.1	Ca_Kabuli_Chr07	6092030	TT	GG	GG	INTERGENIC		
SNP_46908_A_6094060	NC_021166.1	Ca_Kabuli_Chr07	6094060	AA	GG	GG	INTERGENIC		
SNP_46910_A_6094075	NC_021166.1	Ca_Kabuli_Chr07	6094075	TT	GG	GG	INTERGENIC		
SNP_46911_A_6094080	NC_021166.1	Ca_Kabuli_Chr07	6094080	TT	CC	CC	INTERGENIC		
SNP_46913_A_6100736	NC_021166.1	Ca_Kabuli_Chr07	6100736	GG	AA	AA	INTERGENIC		
SNP_46914_A_6100748	NC_021166.1	Ca_Kabuli_Chr07	6100748	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46915_A_6100790	NC_021166.1	Ca_Kabuli_Chr07	6100790	GG	CC	CC	INTERGENIC		
SNP_46916_A_6100928	NC_021166.1	Ca_Kabuli_Chr07	6100928	TT	CC	CC	INTERGENIC		
SNP_46917_A_6100931	NC_021166.1	Ca_Kabuli_Chr07	6100931	TT	CC	CC	INTERGENIC		
SNP_46918_A_6100946	NC_021166.1	Ca_Kabuli_Chr07	6100946	TT	CC	CC	INTERGENIC		
SNP_46920_A_6102124	NC_021166.1	Ca_Kabuli_Chr07	6102124	GG	AA	AA	URR	101493889	uncharacterized LOC101493889
SNP_46921_A_6102134	NC_021166.1	Ca_Kabuli_Chr07	6102134	TT	CC	CC	URR	101493889	uncharacterized LOC101493889
SNP_46922_A_6102140	NC_021166.1	Ca_Kabuli_Chr07	6102140	AA	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46923_A_6102142	NC_021166.1	Ca_Kabuli_Chr07	6102142	CC	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46924_A_6102143	NC_021166.1	Ca_Kabuli_Chr07	6102143	GG	CC	CC	URR	101493889	uncharacterized LOC101493889
SNP_46925_A_6102160	NC_021166.1	Ca_Kabuli_Chr07	6102160	CC	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46926_A_6102168	NC_021166.1	Ca_Kabuli_Chr07	6102168	TT	GG	GG	URR	101493889	uncharacterized LOC101493889
SNP_46927_A_6102437	NC_021166.1	Ca_Kabuli_Chr07	6102437	TT	CC	CC	URR	101493889	uncharacterized LOC101493889
SNP_46928_A_6102872	NC_021166.1	Ca_Kabuli_Chr07	6102872	TT	CC	CC	URR	101493889	uncharacterized LOC101493889
SNP_46929_A_6103154	NC_021166.1	Ca_Kabuli_Chr07	6103154	TT	AA	AA	URR	101493889	uncharacterized LOC101493889
SNP_46930_A_6103158	NC_021166.1	Ca_Kabuli_Chr07	6103158	AA	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46931_A_6103159	NC_021166.1	Ca_Kabuli_Chr07	6103159	AA	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46932_A_6103160	NC_021166.1	Ca_Kabuli_Chr07	6103160	AA	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46933_A_6103161	NC_021166.1	Ca_Kabuli_Chr07	6103161	AA	TT	TT	URR	101493889	uncharacterized LOC101493889
SNP_46935_A_6104908	NC_021166.1	Ca_Kabuli_Chr07	6104908	AA	GG	GG	INTERGENIC		
SNP_46936_A_6104918	NC_021166.1	Ca_Kabuli_Chr07	6104918	CC	TT	TT	INTERGENIC		
SNP_46937_A_6105426	NC_021166.1	Ca_Kabuli_Chr07	6105426	AA	TT	TT	INTERGENIC		
SNP_46938_A_6106263	NC_021166.1	Ca_Kabuli_Chr07	6106263	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46940_A_6106981	NC_021166.1	Ca_Kabuli_Chr07	6106981	AA	CC	CC	INTERGENIC		
SNP_46941_A_6106987	NC_021166.1	Ca_Kabuli_Chr07	6106987	AA	CC	CC	INTERGENIC		
SNP_46942_A_6106999	NC_021166.1	Ca_Kabuli_Chr07	6106999	CC	AA	AA	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46943_A_6107049	NC_021166.1	Ca_Kabuli_Chr07	6107049	GG	TT	TT	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46944_A_6107066	NC_021166.1	Ca_Kabuli_Chr07	6107066	GG	AA	AA	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46945_A_6107080	NC_021166.1	Ca_Kabuli_Chr07	6107080	AA	GG	GG	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46946_A_6107082	NC_021166.1	Ca_Kabuli_Chr07	6107082	CC	TT	TT	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46947_A_6107103	NC_021166.1	Ca_Kabuli_Chr07	6107103	CC	TT	TT	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46948_A_6107163	NC_021166.1	Ca_Kabuli_Chr07	6107163	CC	TT	TT	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46951_A_6107664	NC_021166.1	Ca_Kabuli_Chr07	6107664	TT	CC	CC	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46952_A_6107665	NC_021166.1	Ca_Kabuli_Chr07	6107665	CC	TT	TT	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46953_A_6107704	NC_021166.1	Ca_Kabuli_Chr07	6107704	GG	AA	AA	DRR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46954_A_6112929	NC_021166.1	Ca_Kabuli_Chr07	6112929	AA	GG	GG	DRR	101507450	probable protein phosphatase 2C 27
SNP_46955_A_6114858	NC_021166.1	Ca_Kabuli_Chr07	6114858	TT	GG	GG	URR	101507129	116 kDa U5 small nuclear ribonucleoprotein component
SNP_46956_A_6116668	NC_021166.1	Ca_Kabuli_Chr07	6116668	TT	CC	CC	DOWNSTREAM	EFTUD2	Unknown function
SNP_46957_A_6118995	NC_021166.1	Ca_Kabuli_Chr07	6118995	TT	GG	GG	INTERGENIC		
SNP_46959_A_6120602	NC_021166.1	Ca_Kabuli_Chr07	6120602	AA	GG	GG	INTERGENIC		
SNP_46961_A_6125221	NC_021166.1	Ca_Kabuli_Chr07	6125221	GG	AA	AA	URR	101507753	40S ribosomal protein S11
SNP_46965_A_6126843	NC_021166.1	Ca_Kabuli_Chr07	6126843	TT	AA	AA	DRR	101508078	large proline-rich protein bag6-A
SNP_46966_A_6131558	NC_021166.1	Ca_Kabuli_Chr07	6131558	TT	AA	AA	INTRON	id160373	Unknown function
SNP_46967_A_6135379	NC_021166.1	Ca_Kabuli_Chr07	6135379	CC	AA	AA	INTRON	id160373	Unknown function
SNP_46968_A_6135594	NC_021166.1	Ca_Kabuli_Chr07	6135594	TT	AA	AA	INTRON	id160373	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46969_A_6141640	NC_021166.1	Ca_Kabuli_Chr07	6141640	TT	CC	CC	URR	101508078	large proline-rich protein bag6-A
SNP_46970_A_6141702	NC_021166.1	Ca_Kabuli_Chr07	6141702	AA	TT	TT	URR	101508078	large proline-rich protein bag6-A
SNP_46971_A_6142218	NC_021166.1	Ca_Kabuli_Chr07	6142218	CC	AA	AA	URR	101508078	large proline-rich protein bag6-A
SNP_46972_A_6142269	NC_021166.1	Ca_Kabuli_Chr07	6142269	CC	TT	TT	URR	101508078	large proline-rich protein bag6-A
SNP_46973_A_6143400	NC_021166.1	Ca_Kabuli_Chr07	6143400	AA	GG	GG	INTERGENIC		
SNP_46974_A_6144928	NC_021166.1	Ca_Kabuli_Chr07	6144928	TT	CC	CC	INTERGENIC		
SNP_46975_A_6153897	NC_021166.1	Ca_Kabuli_Chr07	6153897	GG	AA	AA	INTERGENIC		
SNP_46976_A_6157168	NC_021166.1	Ca_Kabuli_Chr07	6157168	CC	AA	AA	URR	101508703	uncharacterized LOC101508703
SNP_46977_A_6157333	NC_021166.1	Ca_Kabuli_Chr07	6157333	TT	GG	GG	URR	101508703	uncharacterized LOC101508703
SNP_46978_A_6157335	NC_021166.1	Ca_Kabuli_Chr07	6157335	GG	AA	AA	URR	101508703	uncharacterized LOC101508703
SNP_46979_A_6157371	NC_021166.1	Ca_Kabuli_Chr07	6157371	GG	AA	AA	URR	101508703	uncharacterized LOC101508703
SNP_46980_A_6157378	NC_021166.1	Ca_Kabuli_Chr07	6157378	GG	TT	TT	URR	101508703	uncharacterized LOC101508703
SNP_46981_A_6160438	NC_021166.1	Ca_Kabuli_Chr07	6160438	TT	AA	AA	INTERGENIC		
SNP_46982_A_6162790	NC_021166.1	Ca_Kabuli_Chr07	6162790	AA	TT	TT	INTERGENIC		
SNP_46983_A_6162943	NC_021166.1	Ca_Kabuli_Chr07	6162943	TT	AA	AA	INTERGENIC		
SNP_46985_A_6165447	NC_021166.1	Ca_Kabuli_Chr07	6165447	GG	AA	AA	DRR	101509020	uncharacterized LOC101509020
SNP_46987_A_6220220	NC_021166.1	Ca_Kabuli_Chr07	6220220	AA	CC	CC	INTRON	101510637	uncharacterized LOC101510637
SNP_46988_A_6313528	NC_021166.1	Ca_Kabuli_Chr07	6313528	TT	CC	CC	INTERGENIC		
SNP_46989_A_6313850	NC_021166.1	Ca_Kabuli_Chr07	6313850	TT	AA	AA	INTERGENIC		
SNP_46991_A_6339958	NC_021166.1	Ca_Kabuli_Chr07	6339958	TT	AA	AA	DRR	101489230	actin-related protein 2/3 complex subunit 3
SNP_46993_A_6434182	NC_021166.1	Ca_Kabuli_Chr07	6434182	TT	CC	CC	URR	101493995	probable sucrose-phosphate synthase
SNP_46995_A_6610050	NC_021166.1	Ca_Kabuli_Chr07	6610050	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_46996_A_6629117	NC_021166.1	Ca_Kabuli_Chr07	6629117	TT	CC	CC	INTERGENIC		
SNP_46997_A_6659707	NC_021166.1	Ca_Kabuli_Chr07	6659707	AA	CC	CC	INTERGENIC		
SNP_46999_A_6703235	NC_021166.1	Ca_Kabuli_Chr07	6703235	TT	CC	CC	SYNONYMOUS_CODING	101501950	topless-related protein 4-like
SNP_47000_A_6719148	NC_021166.1	Ca_Kabuli_Chr07	6719148	TT	CC	CC	DRR	101502794	putative clathrin assembly protein At2g25430
SNP_47001_A_6832606	NC_021166.1	Ca_Kabuli_Chr07	6832606	GG	AA	AA	INTERGENIC		
SNP_47004_A_6855448	NC_021166.1	Ca_Kabuli_Chr07	6855448	AA	GG	GG	NON_SYNONYMOUS_CODING	101507330	CBL-interacting serine/threonine-protein kinase 24
SNP_47005_A_6906490	NC_021166.1	Ca_Kabuli_Chr07	6906490	AA	GG	GG	URR	101508273	uncharacterized LOC101508273
SNP_47007_A_6918299	NC_021166.1	Ca_Kabuli_Chr07	6918299	TT	AA	AA	URR	101509021	uncharacterized LOC101509021
SNP_47008_A_7009387	NC_021166.1	Ca_Kabuli_Chr07	7009387	AA	CC	CC	INTRON	101513969	protein NRT1/ PTR FAMILY 6.2
SNP_47009_A_7051010	NC_021166.1	Ca_Kabuli_Chr07	7051010	GG	AA	AA	INTERGENIC		
SNP_47010_A_7078820	NC_021166.1	Ca_Kabuli_Chr07	7078820	AA	GG	GG	DRR	101496804	uncharacterized protein At1g15400-like
SNP_47011_A_7135917	NC_021166.1	Ca_Kabuli_Chr07	7135917	TT	CC	CC	INTERGENIC		
SNP_47012_A_7184712	NC_021166.1	Ca_Kabuli_Chr07	7184712	AA	CC	CC	INTERGENIC		
SNP_47013_A_7208803	NC_021166.1	Ca_Kabuli_Chr07	7208803	AA	TT	TT	INTERGENIC		
SNP_47014_A_7209131	NC_021166.1	Ca_Kabuli_Chr07	7209131	CC	GG	GG	INTERGENIC		
SNP_47015_A_7224378	NC_021166.1	Ca_Kabuli_Chr07	7224378	TT	CC	CC	DRR	101495050	uncharacterized LOC101495050
SNP_47016_A_7232216	NC_021166.1	Ca_Kabuli_Chr07	7232216	GG	AA	AA	INTERGENIC		
SNP_47017_A_7241785	NC_021166.1	Ca_Kabuli_Chr07	7241785	TT	CC	CC	INTERGENIC		
SNP_47019_A_7269663	NC_021166.1	Ca_Kabuli_Chr07	7269663	TT	CC	CC	URR	101496257	uncharacterized LOC101496257
SNP_47021_A_7298884	NC_021166.1	Ca_Kabuli_Chr07	7298884	TT	AA	AA	DRR	101499305	nipped-B-like protein B
SNP_47022_A_7331797	NC_021166.1	Ca_Kabuli_Chr07	7331797	GG	AA	AA	URR	101500693	probable inactive receptor kinase At2g26730
SNP_47023_A_7331798	NC_021166.1	Ca_Kabuli_Chr07	7331798	AA	GG	GG	URR	101500693	probable inactive receptor kinase At2g26730

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47024_A_7332037	NC_021166.1	Ca_Kabuli_Chr07	7332037	GG	AA	AA	URR	101500693	probable inactive receptor kinase At2g26730
SNP_47027_A_7332270	NC_021166.1	Ca_Kabuli_Chr07	7332270	AA	GG	GG	URR	101500693	probable inactive receptor kinase At2g26730
SNP_47028_A_7333297	NC_021166.1	Ca_Kabuli_Chr07	7333297	GG	AA	AA	INTERGENIC		
SNP_47030_A_7339331	NC_021166.1	Ca_Kabuli_Chr07	7339331	AA	CC	CC	INTERGENIC		
SNP_47031_A_7340606	NC_021166.1	Ca_Kabuli_Chr07	7340606	TT	AA	AA	DRR	101501005	sodium/pyruvate cotransporter BASS2, chloroplastic
SNP_47032_A_7341497	NC_021166.1	Ca_Kabuli_Chr07	7341497	GG	AA	AA	INTRON	101501005	sodium/pyruvate cotransporter BASS2, chloroplastic
SNP_47033_A_7341516	NC_021166.1	Ca_Kabuli_Chr07	7341516	GG	AA	AA	INTRON	101501005	sodium/pyruvate cotransporter BASS2, chloroplastic
SNP_47034_A_7341527	NC_021166.1	Ca_Kabuli_Chr07	7341527	CC	TT	TT	INTRON	101501005	sodium/pyruvate cotransporter BASS2, chloroplastic
SNP_47035_A_7366467	NC_021166.1	Ca_Kabuli_Chr07	7366467	TT	GG	GG	URR	101501640	uncharacterized LOC101501640
SNP_47036_A_7367329	NC_021166.1	Ca_Kabuli_Chr07	7367329	GG	AA	AA	URR	101501640	uncharacterized LOC101501640
SNP_47037_A_7368594	NC_021166.1	Ca_Kabuli_Chr07	7368594	AA	GG	GG	INTERGENIC		
SNP_47038_A_7378500	NC_021166.1	Ca_Kabuli_Chr07	7378500	AA	GG	GG	URR	101501855	ABC transporter G family member 32
SNP_47039_A_7378769	NC_021166.1	Ca_Kabuli_Chr07	7378769	GG	AA	AA	URR	101501855	ABC transporter G family member 32
SNP_47041_A_7383564	NC_021166.1	Ca_Kabuli_Chr07	7383564	GG	AA	AA	DRR	101502178	transmembrane protein 19
SNP_47042_A_7383816	NC_021166.1	Ca_Kabuli_Chr07	7383816	TT	CC	CC	DRR	101502178	transmembrane protein 19
SNP_47043_A_7384994	NC_021166.1	Ca_Kabuli_Chr07	7384994	AA	GG	GG	INTERGENIC		
SNP_47045_A_7390206	NC_021166.1	Ca_Kabuli_Chr07	7390206	GG	CC	CC	DRR	101502492	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' iota isoform-like
SNP_47046_A_7390210	NC_021166.1	Ca_Kabuli_Chr07	7390210	AA	TT	TT	DRR	101502492	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' iota isoform-like
SNP_47047_A_7391003	NC_021166.1	Ca_Kabuli_Chr07	7391003	TT	CC	CC	URR	101497460	Unknown function
SNP_47048_A_7395026	NC_021166.1	Ca_Kabuli_Chr07	7395026	CC	AA	AA	URR	101502492	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' iota isoform-like
SNP_47049_A_7395366	NC_021166.1	Ca_Kabuli_Chr07	7395366	GG	AA	AA	URR	101502492	serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' iota isoform-like
SNP_47050_A_7399808	NC_021166.1	Ca_Kabuli_Chr07	7399808	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47052_A_7404753	NC_021166.1	Ca_Kabuli_Chr07	7404753	CC	AA	AA	DRR	101502796	palmitoyl-acyl carrier protein thioesterase, chloroplastic-like
SNP_47054_A_7411627	NC_021166.1	Ca_Kabuli_Chr07	7411627	CC	AA	AA	URR	101502796	palmitoyl-acyl carrier protein thioesterase, chloroplastic-like
SNP_47056_A_7411644	NC_021166.1	Ca_Kabuli_Chr07	7411644	GG	AA	AA	URR	101502796	palmitoyl-acyl carrier protein thioesterase, chloroplastic-like
SNP_47057_A_7411713	NC_021166.1	Ca_Kabuli_Chr07	7411713	GG	AA	AA	URR	101502796	palmitoyl-acyl carrier protein thioesterase, chloroplastic-like
SNP_47059_A_7411943	NC_021166.1	Ca_Kabuli_Chr07	7411943	CC	AA	AA	INTERGENIC		
SNP_47060_A_7412032	NC_021166.1	Ca_Kabuli_Chr07	7412032	CC	TT	TT	INTERGENIC		
SNP_47061_A_7412099	NC_021166.1	Ca_Kabuli_Chr07	7412099	TT	AA	AA	INTERGENIC		
SNP_47062_A_7417485	NC_021166.1	Ca_Kabuli_Chr07	7417485	GG	TT	TT	INTERGENIC		
SNP_47063_A_7420203	NC_021166.1	Ca_Kabuli_Chr07	7420203	TT	AA	AA	DRR	101503781	dnaJ homolog subfamily C GRV2
SNP_47064_A_7428253	NC_021166.1	Ca_Kabuli_Chr07	7428253	CC	TT	TT	SYNONYMOUS_CODING	101503781	dnaJ homolog subfamily C GRV2
SNP_47065_A_7429106	NC_021166.1	Ca_Kabuli_Chr07	7429106	AA	GG	GG	INTRON	101503781	dnaJ homolog subfamily C GRV2
SNP_47066_A_7440665	NC_021166.1	Ca_Kabuli_Chr07	7440665	TT	CC	CC	INTERGENIC		
SNP_47068_A_7442404	NC_021166.1	Ca_Kabuli_Chr07	7442404	AA	GG	GG	INTERGENIC		
SNP_47069_A_7444891	NC_021166.1	Ca_Kabuli_Chr07	7444891	GG	AA	AA	DRR	101503116	glucan endo-1,3-beta-glucosidase 8-like
SNP_47070_A_7444894	NC_021166.1	Ca_Kabuli_Chr07	7444894	GG	AA	AA	DRR	101503116	glucan endo-1,3-beta-glucosidase 8-like
SNP_47071_A_7446753	NC_021166.1	Ca_Kabuli_Chr07	7446753	GG	AA	AA	INTERGENIC		
SNP_47072_A_7447140	NC_021166.1	Ca_Kabuli_Chr07	7447140	CC	AA	AA	INTERGENIC		
SNP_47073_A_7447141	NC_021166.1	Ca_Kabuli_Chr07	7447141	CC	TT	TT	INTERGENIC		
SNP_47074_A_7449038	NC_021166.1	Ca_Kabuli_Chr07	7449038	TT	AA	AA	URR	101503116	glucan endo-1,3-beta-glucosidase 8-like
SNP_47075_A_7455703	NC_021166.1	Ca_Kabuli_Chr07	7455703	GG	AA	AA	INTRON	101504544	tRNA (guanine(37)-N1)-methyltransferase 2
SNP_47077_A_7458767	NC_021166.1	Ca_Kabuli_Chr07	7458767	TT	GG	GG	INTERGENIC		
SNP_47080_A_7464962	NC_021166.1	Ca_Kabuli_Chr07	7464962	GG	AA	AA	INTRON	101504857	histone deacetylase 15

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47081_A_7468193	NC_021166.1	Ca_Kabuli_Chr07	7468193	GG	CC	CC	INTRON	101504857	histone deacetylase 15
SNP_47082_A_7476346	NC_021166.1	Ca_Kabuli_Chr07	7476346	AA	GG	GG	URR	101505171	transcription factor DIVARICATA
SNP_47083_A_7476603	NC_021166.1	Ca_Kabuli_Chr07	7476603	GG	AA	AA	URR	101505171	transcription factor DIVARICATA
SNP_47084_A_7476634	NC_021166.1	Ca_Kabuli_Chr07	7476634	AA	GG	GG	URR	101505171	transcription factor DIVARICATA
SNP_47085_A_7476664	NC_021166.1	Ca_Kabuli_Chr07	7476664	GG	AA	AA	URR	101505171	transcription factor DIVARICATA
SNP_47086_A_7476694	NC_021166.1	Ca_Kabuli_Chr07	7476694	CC	TT	TT	URR	101505171	transcription factor DIVARICATA
SNP_47087_A_7478376	NC_021166.1	Ca_Kabuli_Chr07	7478376	AA	TT	TT	INTERGENIC		
SNP_47088_A_7478921	NC_021166.1	Ca_Kabuli_Chr07	7478921	AA	TT	TT	INTERGENIC		
SNP_47089_A_7481031	NC_021166.1	Ca_Kabuli_Chr07	7481031	TT	CC	CC	DRR	101505485	uncharacterized LOC101505485
SNP_47090_A_7489186	NC_021166.1	Ca_Kabuli_Chr07	7489186	CC	TT	TT	URR	101505485	uncharacterized LOC101505485
SNP_47092_A_7496340	NC_021166.1	Ca_Kabuli_Chr07	7496340	TT	CC	CC	NON_SYNONYMOUS_CODING	101505823	DNA mismatch repair protein MSH2
SNP_47093_A_7498325	NC_021166.1	Ca_Kabuli_Chr07	7498325	AA	GG	GG	INTRON	101505823	DNA mismatch repair protein MSH2
SNP_47094_A_7500736	NC_021166.1	Ca_Kabuli_Chr07	7500736	GG	AA	AA	INTRON	101505823	DNA mismatch repair protein MSH2
SNP_47095_A_7500763	NC_021166.1	Ca_Kabuli_Chr07	7500763	CC	TT	TT	INTRON	101505823	DNA mismatch repair protein MSH2
SNP_47096_A_7501427	NC_021166.1	Ca_Kabuli_Chr07	7501427	TT	GG	GG	URR	101505823	DNA mismatch repair protein MSH2
SNP_47097_A_7501653	NC_021166.1	Ca_Kabuli_Chr07	7501653	CC	TT	TT	URR	101505823	DNA mismatch repair protein MSH2
SNP_47098_A_7501655	NC_021166.1	Ca_Kabuli_Chr07	7501655	GG	TT	TT	URR	101505823	DNA mismatch repair protein MSH2
SNP_47099_A_7502465	NC_021166.1	Ca_Kabuli_Chr07	7502465	TT	CC	CC	URR	101505823	DNA mismatch repair protein MSH2
SNP_47100_A_7504476	NC_021166.1	Ca_Kabuli_Chr07	7504476	CC	TT	TT	INTERGENIC		
SNP_47101_A_7504487	NC_021166.1	Ca_Kabuli_Chr07	7504487	CC	AA	AA	INTERGENIC		
SNP_47102_A_7504538	NC_021166.1	Ca_Kabuli_Chr07	7504538	CC	AA	AA	INTERGENIC		
SNP_47103_A_7504562	NC_021166.1	Ca_Kabuli_Chr07	7504562	TT	AA	AA	INTERGENIC		

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SNP_47104_A_7504566	NC_021166.1	Ca_Kabuli_Chr07	7504566	AA	GG	GG	INTERGENIC		
SNP_47105_A_7506281	NC_021166.1	Ca_Kabuli_Chr07	7506281	TT	CC	CC	INTERGENIC		
SNP_47107_A_7510997	NC_021166.1	Ca_Kabuli_Chr07	7510997	CC	TT	TT	URR	101506134	transcription factor TCP12
SNP_47108_A_7511216	NC_021166.1	Ca_Kabuli_Chr07	7511216	TT	CC	CC	URR	101506134	transcription factor TCP12
SNP_47109_A_7511227	NC_021166.1	Ca_Kabuli_Chr07	7511227	AA	GG	GG	URR	101506134	transcription factor TCP12
SNP_47110_A_7511625	NC_021166.1	Ca_Kabuli_Chr07	7511625	AA	GG	GG	URR	101506134	transcription factor TCP12
SNP_47111_A_7511632	NC_021166.1	Ca_Kabuli_Chr07	7511632	TT	GG	GG	URR	101506134	transcription factor TCP12
SNP_47112_A_7511787	NC_021166.1	Ca_Kabuli_Chr07	7511787	CC	TT	TT	URR	101506134	transcription factor TCP12
SNP_47113_A_7512071	NC_021166.1	Ca_Kabuli_Chr07	7512071	TT	CC	CC	URR	101506134	transcription factor TCP12
SNP_47114_A_7512078	NC_021166.1	Ca_Kabuli_Chr07	7512078	TT	CC	CC	URR	101506134	transcription factor TCP12
SNP_47115_A_7514493	NC_021166.1	Ca_Kabuli_Chr07	7514493	AA	GG	GG	INTERGENIC		
SNP_47116_A_7514494	NC_021166.1	Ca_Kabuli_Chr07	7514494	GG	AA	AA	INTERGENIC		
SNP_47117_A_7514501	NC_021166.1	Ca_Kabuli_Chr07	7514501	CC	TT	TT	INTERGENIC		
SNP_47118_A_7515238	NC_021166.1	Ca_Kabuli_Chr07	7515238	GG	AA	AA	INTERGENIC		
SNP_47119_A_7520773	NC_021166.1	Ca_Kabuli_Chr07	7520773	TT	CC	CC	INTRON	101506465	transcription initiation factor TFIID subunit 2
SNP_47120_A_7532406	NC_021166.1	Ca_Kabuli_Chr07	7532406	CC	TT	TT	URR	101506465	transcription initiation factor TFIID subunit 2
SNP_47121_A_7535810	NC_021166.1	Ca_Kabuli_Chr07	7535810	CC	TT	TT	INTERGENIC		
SNP_47122_A_7536095	NC_021166.1	Ca_Kabuli_Chr07	7536095	TT	CC	CC	INTERGENIC		
SNP_47123_A_7536104	NC_021166.1	Ca_Kabuli_Chr07	7536104	GG	AA	AA	INTERGENIC		
SNP_47124_A_7536307	NC_021166.1	Ca_Kabuli_Chr07	7536307	AA	TT	TT	INTERGENIC		
SNP_47125_A_7536316	NC_021166.1	Ca_Kabuli_Chr07	7536316	TT	AA	AA	INTERGENIC		
SNP_47126_A_7539293	NC_021166.1	Ca_Kabuli_Chr07	7539293	TT	CC	CC	INTRON	101507007	transcription initiation factor IIE subunit alpha-like

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SNP_47127_A_7540144	NC_021166.1	Ca_Kabuli_Chr07	7540144	TT	CC	CC	INTRON	101507007	transcription initiation factor IIE subunit alpha-like
SNP_47128_A_7541006	NC_021166.1	Ca_Kabuli_Chr07	7541006	GG	AA	AA	INTRON	101507007	transcription initiation factor IIE subunit alpha-like
SNP_47130_A_7544103	NC_021166.1	Ca_Kabuli_Chr07	7544103	TT	CC	CC	INTRON	101507007	transcription initiation factor IIE subunit alpha-like
SNP_47131_A_7545884	NC_021166.1	Ca_Kabuli_Chr07	7545884	CC	AA	AA	INTRON	101507007	transcription initiation factor IIE subunit alpha-like
SNP_47134_A_7550878	NC_021166.1	Ca_Kabuli_Chr07	7550878	AA	TT	TT	URR	101507331	Unknown function
SNP_47135_A_7554302	NC_021166.1	Ca_Kabuli_Chr07	7554302	AA	CC	CC	INTERGENIC		
SNP_47136_A_7554344	NC_021166.1	Ca_Kabuli_Chr07	7554344	CC	TT	TT	INTERGENIC		
SNP_47137_A_7554346	NC_021166.1	Ca_Kabuli_Chr07	7554346	AA	GG	GG	INTERGENIC		
SNP_47138_A_7558736	NC_021166.1	Ca_Kabuli_Chr07	7558736	GG	TT	TT	DRR	101507638	uncharacterized LOC101507638
SNP_47139_A_7561276	NC_021166.1	Ca_Kabuli_Chr07	7561276	CC	AA	AA	URR	101507638	uncharacterized LOC101507638
SNP_47140_A_7561284	NC_021166.1	Ca_Kabuli_Chr07	7561284	AA	GG	GG	URR	101507638	uncharacterized LOC101507638
SNP_47141_A_7564298	NC_021166.1	Ca_Kabuli_Chr07	7564298	AA	CC	CC	INTERGENIC		
SNP_47142_A_7568633	NC_021166.1	Ca_Kabuli_Chr07	7568633	TT	CC	CC	INTERGENIC		
SNP_47143_A_7570839	NC_021166.1	Ca_Kabuli_Chr07	7570839	CC	TT	TT	URR	101507962	WD repeat-containing protein 55 homolog
SNP_47144_A_7572456	NC_021166.1	Ca_Kabuli_Chr07	7572456	GG	AA	AA	INTERGENIC		
SNP_47145_A_7577118	NC_021166.1	Ca_Kabuli_Chr07	7577118	TT	CC	CC	INTERGENIC		
SNP_47146_A_7577409	NC_021166.1	Ca_Kabuli_Chr07	7577409	AA	GG	GG	INTERGENIC		
SNP_47147_A_7577430	NC_021166.1	Ca_Kabuli_Chr07	7577430	TT	CC	CC	INTERGENIC		
SNP_47148_A_7577431	NC_021166.1	Ca_Kabuli_Chr07	7577431	GG	CC	CC	INTERGENIC		
SNP_47149_A_7577435	NC_021166.1	Ca_Kabuli_Chr07	7577435	CC	AA	AA	INTERGENIC		
SNP_47150_A_7577466	NC_021166.1	Ca_Kabuli_Chr07	7577466	AA	GG	GG	INTERGENIC		
SNP_47151_A_7578823	NC_021166.1	Ca_Kabuli_Chr07	7578823	GG	CC	CC	INTERGENIC		

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SNP_47152_A_7580680	NC_021166.1	Ca_Kabuli_Chr07	7580680	AA	GG	GG	INTERGENIC		
SNP_47153_A_7580775	NC_021166.1	Ca_Kabuli_Chr07	7580775	GG	TT	TT	INTERGENIC		
SNP_47154_A_7584125	NC_021166.1	Ca_Kabuli_Chr07	7584125	CC	AA	AA	INTERGENIC		
SNP_47155_A_7585322	NC_021166.1	Ca_Kabuli_Chr07	7585322	TT	AA	AA	DRR	101509777	peptidyl-prolyl cis-trans isomerase CYP26-2, chloroplastic
SNP_47156_A_7585739	NC_021166.1	Ca_Kabuli_Chr07	7585739	CC	TT	TT	DRR	101509777	peptidyl-prolyl cis-trans isomerase CYP26-2, chloroplastic
SNP_47157_A_7588011	NC_021166.1	Ca_Kabuli_Chr07	7588011	TT	AA	AA	URR	101509777	peptidyl-prolyl cis-trans isomerase CYP26-2, chloroplastic
SNP_47158_A_7590690	NC_021166.1	Ca_Kabuli_Chr07	7590690	GG	TT	TT	INTERGENIC		
SNP_47159_A_7593398	NC_021166.1	Ca_Kabuli_Chr07	7593398	TT	CC	CC	URR	101510093	uncharacterized LOC101510093
SNP_47160_A_7593408	NC_021166.1	Ca_Kabuli_Chr07	7593408	AA	TT	TT	URR	101510093	uncharacterized LOC101510093
SNP_47161_A_7593420	NC_021166.1	Ca_Kabuli_Chr07	7593420	AA	GG	GG	URR	101510093	uncharacterized LOC101510093
SNP_47162_A_7594284	NC_021166.1	Ca_Kabuli_Chr07	7594284	AA	GG	GG	INTERGENIC		
SNP_47163_A_7594316	NC_021166.1	Ca_Kabuli_Chr07	7594316	AA	GG	GG	INTERGENIC		
SNP_47164_A_7596161	NC_021166.1	Ca_Kabuli_Chr07	7596161	CC	TT	TT	INTERGENIC		
SNP_47165_A_7597410	NC_021166.1	Ca_Kabuli_Chr07	7597410	AA	TT	TT	DRR	101510961	DEAD-box ATP-dependent RNA helicase 51-like
SNP_47167_A_7598934	NC_021166.1	Ca_Kabuli_Chr07	7598934	AA	GG	GG	URR	101510639	mavicyanin
SNP_47168_A_7599068	NC_021166.1	Ca_Kabuli_Chr07	7599068	CC	TT	TT	URR	101510639	mavicyanin
SNP_47169_A_7599085	NC_021166.1	Ca_Kabuli_Chr07	7599085	GG	TT	TT	URR	101510639	mavicyanin
SNP_47170_A_7599183	NC_021166.1	Ca_Kabuli_Chr07	7599183	GG	AA	AA	URR	101510639	mavicyanin
SNP_47171_A_7602423	NC_021166.1	Ca_Kabuli_Chr07	7602423	TT	GG	GG	INTRON	101510961	DEAD-box ATP-dependent RNA helicase 51-like
SNP_47172_A_7606858	NC_021166.1	Ca_Kabuli_Chr07	7606858	TT	CC	CC	INTERGENIC		
SNP_47173_A_7608007	NC_021166.1	Ca_Kabuli_Chr07	7608007	TT	GG	GG	URR	101510961	DEAD-box ATP-dependent RNA helicase 51-like
SNP_47174_A_7608268	NC_021166.1	Ca_Kabuli_Chr07	7608268	CC	TT	TT	URR	101510961	DEAD-box ATP-dependent RNA helicase 51-like

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SNP_47175_A_7608269	NC_021166.1	Ca_Kabuli_Chr07	7608269	AA	GG	GG	URR	101510961	DEAD-box ATP-dependent RNA helicase 51-like
SNP_47176_A_7608517	NC_021166.1	Ca_Kabuli_Chr07	7608517	AA	GG	GG	DRR	101511485	deoxyhypusine hydroxylase
SNP_47177_A_7608534	NC_021166.1	Ca_Kabuli_Chr07	7608534	AA	TT	TT	DRR	101511485	deoxyhypusine hydroxylase
SNP_47178_A_7612810	NC_021166.1	Ca_Kabuli_Chr07	7612810	CC	TT	TT	NON_SYNONYMOUS_CODING	101511485	deoxyhypusine hydroxylase
SNP_47179_A_7613935	NC_021166.1	Ca_Kabuli_Chr07	7613935	AA	TT	TT	URR	101511485	deoxyhypusine hydroxylase
SNP_47180_A_7613948	NC_021166.1	Ca_Kabuli_Chr07	7613948	CC	AA	AA	URR	101511485	deoxyhypusine hydroxylase
SNP_47181_A_7613989	NC_021166.1	Ca_Kabuli_Chr07	7613989	CC	TT	TT	URR	101511485	deoxyhypusine hydroxylase
SNP_47182_A_7615484	NC_021166.1	Ca_Kabuli_Chr07	7615484	GG	AA	AA	INTERGENIC		
SNP_47183_A_7616755	NC_021166.1	Ca_Kabuli_Chr07	7616755	GG	TT	TT	INTERGENIC		
SNP_47184_A_7616810	NC_021166.1	Ca_Kabuli_Chr07	7616810	AA	GG	GG	INTERGENIC		
SNP_47185_A_7618713	NC_021166.1	Ca_Kabuli_Chr07	7618713	AA	GG	GG	INTERGENIC		
SNP_47186_A_7618747	NC_021166.1	Ca_Kabuli_Chr07	7618747	CC	TT	TT	INTERGENIC		
SNP_47187_A_7618776	NC_021166.1	Ca_Kabuli_Chr07	7618776	GG	AA	AA	INTERGENIC		
SNP_47188_A_7619356	NC_021166.1	Ca_Kabuli_Chr07	7619356	CC	TT	TT	INTERGENIC		
SNP_47189_A_7624594	NC_021166.1	Ca_Kabuli_Chr07	7624594	GG	TT	TT	NON_SYNONYMOUS_CODING	101511811	kinesin-like protein KIF19
SNP_47191_A_7626610	NC_021166.1	Ca_Kabuli_Chr07	7626610	GG	TT	TT	URR	101511811	kinesin-like protein KIF19
SNP_47192_A_7626630	NC_021166.1	Ca_Kabuli_Chr07	7626630	CC	TT	TT	URR	101511811	kinesin-like protein KIF19
SNP_47193_A_7627341	NC_021166.1	Ca_Kabuli_Chr07	7627341	AA	GG	GG	URR	101511811	kinesin-like protein KIF19
SNP_47194_A_7627383	NC_021166.1	Ca_Kabuli_Chr07	7627383	AA	GG	GG	URR	101511811	kinesin-like protein KIF19
SNP_47195_A_7627404	NC_021166.1	Ca_Kabuli_Chr07	7627404	TT	CC	CC	URR	101511811	kinesin-like protein KIF19
SNP_47196_A_7627407	NC_021166.1	Ca_Kabuli_Chr07	7627407	GG	AA	AA	URR	101511811	kinesin-like protein KIF19
SNP_47197_A_7629350	NC_021166.1	Ca_Kabuli_Chr07	7629350	GG	AA	AA	DRR	101512123	protein MIZU-KUSSEI 1

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SNP_47198_A_7634618	NC_021166.1	Ca_Kabuli_Chr07	7634618	GG	TT	TT	INTRON	101512449	protein Dr1 homolog
SNP_47199_A_7637088	NC_021166.1	Ca_Kabuli_Chr07	7637088	CC	TT	TT	URR	101512449	protein Dr1 homolog
SNP_47200_A_7637131	NC_021166.1	Ca_Kabuli_Chr07	7637131	AA	CC	CC	URR	101512449	protein Dr1 homolog
SNP_47201_A_7637160	NC_021166.1	Ca_Kabuli_Chr07	7637160	CC	TT	TT	URR	101512449	protein Dr1 homolog
SNP_47202_A_7637903	NC_021166.1	Ca_Kabuli_Chr07	7637903	AA	GG	GG	URR	101512449	protein Dr1 homolog
SNP_47203_A_7637918	NC_021166.1	Ca_Kabuli_Chr07	7637918	TT	CC	CC	URR	101512449	protein Dr1 homolog
SNP_47204_A_7642178	NC_021166.1	Ca_Kabuli_Chr07	7642178	TT	GG	GG	INTERGENIC		
SNP_47205_A_7642186	NC_021166.1	Ca_Kabuli_Chr07	7642186	AA	GG	GG	INTERGENIC		
SNP_47206_A_7642777	NC_021166.1	Ca_Kabuli_Chr07	7642777	CC	TT	TT	DRR	101512990	G patch domain-containing protein TGH
SNP_47207_A_7653188	NC_021166.1	Ca_Kabuli_Chr07	7653188	TT	AA	AA	DRR	101512990	G patch domain-containing protein TGH
SNP_47208_A_7657655	NC_021166.1	Ca_Kabuli_Chr07	7657655	TT	CC	CC	INTERGENIC		
SNP_47209_A_7661630	NC_021166.1	Ca_Kabuli_Chr07	7661630	TT	GG	GG	INTRON	101513316	putative phospholipid-transporting ATPase 9
SNP_47210_A_7663564	NC_021166.1	Ca_Kabuli_Chr07	7663564	AA	GG	GG	SYNONYMOUS_CODING	101513316	putative phospholipid-transporting ATPase 9
SNP_47211_A_7666027	NC_021166.1	Ca_Kabuli_Chr07	7666027	TT	CC	CC	SYNONYMOUS_CODING	101513316	putative phospholipid-transporting ATPase 9
SNP_47212_A_7668643	NC_021166.1	Ca_Kabuli_Chr07	7668643	CC	TT	TT	URR	101513316	putative phospholipid-transporting ATPase 9
SNP_47214_A_7668722	NC_021166.1	Ca_Kabuli_Chr07	7668722	GG	AA	AA	URR	101513316	putative phospholipid-transporting ATPase 9
SNP_47215_A_7669393	NC_021166.1	Ca_Kabuli_Chr07	7669393	CC	GG	GG	INTERGENIC		
SNP_47216_A_7669394	NC_021166.1	Ca_Kabuli_Chr07	7669394	AA	GG	GG	INTERGENIC		
SNP_47217_A_7669398	NC_021166.1	Ca_Kabuli_Chr07	7669398	AA	GG	GG	INTERGENIC		
SNP_47218_A_7669675	NC_021166.1	Ca_Kabuli_Chr07	7669675	CC	TT	TT	DRR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47219_A_7669719	NC_021166.1	Ca_Kabuli_Chr07	7669719	TT	CC	CC	DRR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47220_A_7669908	NC_021166.1	Ca_Kabuli_Chr07	7669908	TT	CC	CC	DRR	101513844	eukaryotic translation initiation factor 5A-4-like

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SNP_47221_A_7671727	NC_021166.1	Ca_Kabuli_Chr07	7671727	TT	CC	CC	URR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47222_A_7671736	NC_021166.1	Ca_Kabuli_Chr07	7671736	CC	TT	TT	URR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47224_A_7672082	NC_021166.1	Ca_Kabuli_Chr07	7672082	GG	AA	AA	URR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47225_A_7673285	NC_021166.1	Ca_Kabuli_Chr07	7673285	AA	CC	CC	URR	101513844	eukaryotic translation initiation factor 5A-4-like
SNP_47226_A_7680694	NC_021166.1	Ca_Kabuli_Chr07	7680694	AA	GG	GG	INTERGENIC		
SNP_47227_A_7681059	NC_021166.1	Ca_Kabuli_Chr07	7681059	TT	CC	CC	INTERGENIC		
SNP_47228_A_7681061	NC_021166.1	Ca_Kabuli_Chr07	7681061	AA	TT	TT	INTERGENIC		
SNP_47229_A_7681822	NC_021166.1	Ca_Kabuli_Chr07	7681822	CC	GG	GG	INTERGENIC		
SNP_47230_A_7681832	NC_021166.1	Ca_Kabuli_Chr07	7681832	GG	AA	AA	INTERGENIC		
SNP_47231_A_7681922	NC_021166.1	Ca_Kabuli_Chr07	7681922	TT	AA	AA	INTERGENIC		
SNP_47232_A_7682001	NC_021166.1	Ca_Kabuli_Chr07	7682001	TT	CC	CC	INTERGENIC		
SNP_47233_A_7682054	NC_021166.1	Ca_Kabuli_Chr07	7682054	GG	AA	AA	INTERGENIC		
SNP_47234_A_7682056	NC_021166.1	Ca_Kabuli_Chr07	7682056	AA	GG	GG	INTERGENIC		
SNP_47235_A_7683066	NC_021166.1	Ca_Kabuli_Chr07	7683066	AA	TT	TT	DRR	101514831	60S ribosomal protein L36-3-like
SNP_47236_A_7683088	NC_021166.1	Ca_Kabuli_Chr07	7683088	GG	AA	AA	DRR	101514831	60S ribosomal protein L36-3-like
SNP_47237_A_7683094	NC_021166.1	Ca_Kabuli_Chr07	7683094	AA	GG	GG	DRR	101514831	60S ribosomal protein L36-3-like
SNP_47239_A_7683863	NC_021166.1	Ca_Kabuli_Chr07	7683863	GG	AA	AA	INTRON	101514831	60S ribosomal protein L36-3-like
SNP_47240_A_7685049	NC_021166.1	Ca_Kabuli_Chr07	7685049	AA	TT	TT	URR	101514831	60S ribosomal protein L36-3-like
SNP_47241_A_7685264	NC_021166.1	Ca_Kabuli_Chr07	7685264	TT	CC	CC	URR	101514831	60S ribosomal protein L36-3-like
SNP_47242_A_7685335	NC_021166.1	Ca_Kabuli_Chr07	7685335	AA	TT	TT	URR	101514831	60S ribosomal protein L36-3-like
SNP_47244_A_7689100	NC_021166.1	Ca_Kabuli_Chr07	7689100	CC	TT	TT	INTERGENIC		
SNP_47245_A_7689120	NC_021166.1	Ca_Kabuli_Chr07	7689120	CC	GG	GG	INTERGENIC		

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SNP_47246_A_7689122	NC_021166.1	Ca_Kabuli_Chr07	7689122	TT	CC	CC	INTERGENIC		
SNP_47247_A_7689231	NC_021166.1	Ca_Kabuli_Chr07	7689231	AA	GG	GG	INTERGENIC		
SNP_47248_A_7689233	NC_021166.1	Ca_Kabuli_Chr07	7689233	GG	AA	AA	INTERGENIC		
SNP_47249_A_7689237	NC_021166.1	Ca_Kabuli_Chr07	7689237	AA	CC	CC	INTERGENIC		
SNP_47250_A_7689394	NC_021166.1	Ca_Kabuli_Chr07	7689394	AA	GG	GG	INTERGENIC		
SNP_47251_A_7689415	NC_021166.1	Ca_Kabuli_Chr07	7689415	TT	CC	CC	INTERGENIC		
SNP_47252_A_7689680	NC_021166.1	Ca_Kabuli_Chr07	7689680	AA	TT	TT	INTERGENIC		
SNP_47254_A_7691225	NC_021166.1	Ca_Kabuli_Chr07	7691225	GG	AA	AA	DRR	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47255_A_7691518	NC_021166.1	Ca_Kabuli_Chr07	7691518	CC	TT	TT	DRR	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47256_A_7691637	NC_021166.1	Ca_Kabuli_Chr07	7691637	GG	AA	AA	DRR	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47257_A_7692050	NC_021166.1	Ca_Kabuli_Chr07	7692050	CC	TT	TT	SYNONYMOUS_CODING	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47258_A_7693034	NC_021166.1	Ca_Kabuli_Chr07	7693034	TT	CC	CC	URR	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47259_A_7694500	NC_021166.1	Ca_Kabuli_Chr07	7694500	GG	AA	AA	URR	101498111	ethylene-responsive transcription factor RAP2-9-like
SNP_47261_A_7701437	NC_021166.1	Ca_Kabuli_Chr07	7701437	TT	CC	CC	DRR	101515706	protein CHAPERONE-LIKE PROTEIN OF POR1, chloroplastic
SNP_47262_A_7701557	NC_021166.1	Ca_Kabuli_Chr07	7701557	AA	GG	GG	DRR	101515706	protein CHAPERONE-LIKE PROTEIN OF POR1, chloroplastic
SNP_47265_A_7707512	NC_021166.1	Ca_Kabuli_Chr07	7707512	TT	AA	AA	URR	101515706	protein CHAPERONE-LIKE PROTEIN OF POR1, chloroplastic
SNP_47266_A_7708794	NC_021166.1	Ca_Kabuli_Chr07	7708794	AA	CC	CC	URR	101488467	tetraspanin-11
SNP_47267_A_7708801	NC_021166.1	Ca_Kabuli_Chr07	7708801	CC	GG	GG	URR	101488467	tetraspanin-11
SNP_47268_A_7712081	NC_021166.1	Ca_Kabuli_Chr07	7712081	CC	TT	TT	SYNONYMOUS_CODING	101498446	putative F-box protein At1g67623
SNP_47269_A_7720700	NC_021166.1	Ca_Kabuli_Chr07	7720700	CC	TT	TT	URR	101489344	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_47270_A_7720762	NC_021166.1	Ca_Kabuli_Chr07	7720762	TT	AA	AA	URR	101489344	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_47271_A_7722295	NC_021166.1	Ca_Kabuli_Chr07	7722295	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_47272_A_7723262	NC_021166.1	Ca_Kabuli_Chr07	7723262	GG	TT	TT	INTERGENIC			
SNP_47274_A_7737855	NC_021166.1	Ca_Kabuli_Chr07	7737855	TT	CC	CC	URR	101498787	Unknown function	
SNP_47275_A_7737942	NC_021166.1	Ca_Kabuli_Chr07	7737942	AA	TT	TT	URR	101498787	Unknown function	
SNP_47276_A_7737963	NC_021166.1	Ca_Kabuli_Chr07	7737963	TT	GG	GG	URR	101498787	Unknown function	
SNP_47277_A_7737970	NC_021166.1	Ca_Kabuli_Chr07	7737970	TT	GG	GG	URR	101498787	Unknown function	
SNP_47278_A_7737997	NC_021166.1	Ca_Kabuli_Chr07	7737997	TT	CC	CC	URR	101498787	Unknown function	
SNP_47280_A_7738089	NC_021166.1	Ca_Kabuli_Chr07	7738089	GG	AA	AA	URR	101498787	Unknown function	
SNP_47281_A_7738128	NC_021166.1	Ca_Kabuli_Chr07	7738128	TT	GG	GG	URR	101498787	Unknown function	
SNP_47282_A_7738138	NC_021166.1	Ca_Kabuli_Chr07	7738138	AA	GG	GG	URR	101498787	Unknown function	
SNP_47283_A_7738245	NC_021166.1	Ca_Kabuli_Chr07	7738245	AA	GG	GG	URR	101498787	Unknown function	
SNP_47284_A_7738483	NC_021166.1	Ca_Kabuli_Chr07	7738483	AA	GG	GG	URR	101498787	Unknown function	
SNP_47285_A_7738508	NC_021166.1	Ca_Kabuli_Chr07	7738508	AA	GG	GG	URR	101498787	Unknown function	
SNP_47287_A_7738695	NC_021166.1	Ca_Kabuli_Chr07	7738695	TT	GG	GG	URR	101498787	Unknown function	
SNP_47288_A_7738708	NC_021166.1	Ca_Kabuli_Chr07	7738708	AA	GG	GG	URR	101498787	Unknown function	
SNP_47289_A_7738854	NC_021166.1	Ca_Kabuli_Chr07	7738854	GG	AA	AA	URR	101498787	Unknown function	
SNP_47290_A_7738920	NC_021166.1	Ca_Kabuli_Chr07	7738920	AA	GG	GG	URR	101498787	Unknown function	
SNP_47291_A_7738930	NC_021166.1	Ca_Kabuli_Chr07	7738930	TT	CC	CC	URR	101498787	Unknown function	
SNP_47292_A_7738943	NC_021166.1	Ca_Kabuli_Chr07	7738943	AA	GG	GG	URR	101498787	Unknown function	
SNP_47293_A_7738965	NC_021166.1	Ca_Kabuli_Chr07	7738965	TT	CC	CC	URR	101498787	Unknown function	
SNP_47294_A_7738984	NC_021166.1	Ca_Kabuli_Chr07	7738984	CC	TT	TT	URR	101498787	Unknown function	
SNP_47295_A_7738985	NC_021166.1	Ca_Kabuli_Chr07	7738985	AA	GG	GG	URR	101498787	Unknown function	
SNP_47296_A_7738991	NC_021166.1	Ca_Kabuli_Chr07	7738991	TT	CC	CC	URR	101498787	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47297_A_7738998	NC_021166.1	Ca_Kabuli_Chr07	7738998	GG	TT	TT	URR	101498787	Unknown function
SNP_47298_A_7739000	NC_021166.1	Ca_Kabuli_Chr07	7739000	CC	TT	TT	URR	101498787	Unknown function
SNP_47299_A_7739021	NC_021166.1	Ca_Kabuli_Chr07	7739021	TT	CC	CC	URR	101498787	Unknown function
SNP_47300_A_7739056	NC_021166.1	Ca_Kabuli_Chr07	7739056	CC	TT	TT	URR	101498787	Unknown function
SNP_47301_A_7739157	NC_021166.1	Ca_Kabuli_Chr07	7739157	TT	CC	CC	URR	101498787	Unknown function
SNP_47302_A_7739201	NC_021166.1	Ca_Kabuli_Chr07	7739201	CC	TT	TT	URR	101498787	Unknown function
SNP_47303_A_7739222	NC_021166.1	Ca_Kabuli_Chr07	7739222	TT	AA	AA	URR	101498787	Unknown function
SNP_47304_A_7739223	NC_021166.1	Ca_Kabuli_Chr07	7739223	TT	CC	CC	URR	101498787	Unknown function
SNP_47305_A_7751749	NC_021166.1	Ca_Kabuli_Chr07	7751749	AA	TT	TT	DRR	101505594	protein CHROMATIN REMODELING 24-like
SNP_47306_A_7751791	NC_021166.1	Ca_Kabuli_Chr07	7751791	TT	CC	CC	DRR	101505594	protein CHROMATIN REMODELING 24-like
SNP_47308_A_7756455	NC_021166.1	Ca_Kabuli_Chr07	7756455	CC	TT	TT	NON_SYNONYMOUS_CODING	101505594	protein CHROMATIN REMODELING 24-like
SNP_47309_A_7763975	NC_021166.1	Ca_Kabuli_Chr07	7763975	CC	TT	TT	INTERGENIC		
SNP_47310_A_7769482	NC_021166.1	Ca_Kabuli_Chr07	7769482	AA	CC	CC	INTRON	101501006	uridine-cytidine kinase C-like
SNP_47311_A_7770155	NC_021166.1	Ca_Kabuli_Chr07	7770155	GG	AA	AA	URR	101501006	uridine-cytidine kinase C-like
SNP_47312_A_7776671	NC_021166.1	Ca_Kabuli_Chr07	7776671	AA	GG	GG	URR	101505920	Unknown function
SNP_47313_A_7795407	NC_021166.1	Ca_Kabuli_Chr07	7795407	GG	TT	TT	INTERGENIC		
SNP_47314_A_7795786	NC_021166.1	Ca_Kabuli_Chr07	7795786	AA	GG	GG	INTERGENIC		
SNP_47315_A_7797298	NC_021166.1	Ca_Kabuli_Chr07	7797298	GG	AA	AA	DRR	101503332	acidic leucine-rich nuclear phosphoprotein 32 family member E
SNP_47316_A_7799731	NC_021166.1	Ca_Kabuli_Chr07	7799731	AA	GG	GG	URR	101503332	acidic leucine-rich nuclear phosphoprotein 32 family member E
SNP_47317_A_7799773	NC_021166.1	Ca_Kabuli_Chr07	7799773	TT	CC	CC	URR	101503332	acidic leucine-rich nuclear phosphoprotein 32 family member E
SNP_47318_A_7801235	NC_021166.1	Ca_Kabuli_Chr07	7801235	GG	AA	AA	DRR	101503662	serine protease SPPA, chloroplastic-like
SNP_47319_A_7814775	NC_021166.1	Ca_Kabuli_Chr07	7814775	CC	TT	TT	INTERGENIC		

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SNP_47320_A_7818260	NC_021166.1	Ca_Kabuli_Chr07	7818260	GG	AA	AA	INTERGENIC		
SNP_47321_A_7819639	NC_021166.1	Ca_Kabuli_Chr07	7819639	TT	GG	GG	INTERGENIC		
SNP_47322_A_7840439	NC_021166.1	Ca_Kabuli_Chr07	7840439	CC	TT	TT	URR	101504311	uncharacterized LOC101504311
SNP_47323_A_7842810	NC_021166.1	Ca_Kabuli_Chr07	7842810	GG	TT	TT	INTERGENIC		
SNP_47324_A_7844692	NC_021166.1	Ca_Kabuli_Chr07	7844692	AA	CC	CC	INTERGENIC		
SNP_47325_A_7847213	NC_021166.1	Ca_Kabuli_Chr07	7847213	TT	CC	CC	INTERGENIC		
SNP_47326_A_7847216	NC_021166.1	Ca_Kabuli_Chr07	7847216	GG	AA	AA	INTERGENIC		
SNP_47327_A_7848267	NC_021166.1	Ca_Kabuli_Chr07	7848267	AA	GG	GG	INTERGENIC		
SNP_47328_A_7848296	NC_021166.1	Ca_Kabuli_Chr07	7848296	TT	GG	GG	INTERGENIC		
SNP_47329_A_7848298	NC_021166.1	Ca_Kabuli_Chr07	7848298	TT	CC	CC	INTERGENIC		
SNP_47330_A_7848310	NC_021166.1	Ca_Kabuli_Chr07	7848310	AA	GG	GG	INTERGENIC		
SNP_47331_A_7850218	NC_021166.1	Ca_Kabuli_Chr07	7850218	TT	CC	CC	INTERGENIC		
SNP_47332_A_7850219	NC_021166.1	Ca_Kabuli_Chr07	7850219	CC	TT	TT	INTERGENIC		
SNP_47333_A_7850420	NC_021166.1	Ca_Kabuli_Chr07	7850420	CC	AA	AA	INTERGENIC		
SNP_47335_A_7851468	NC_021166.1	Ca_Kabuli_Chr07	7851468	AA	TT	TT	INTERGENIC		
SNP_47336_A_7855125	NC_021166.1	Ca_Kabuli_Chr07	7855125	CC	TT	TT	INTERGENIC		
SNP_47337_A_7856552	NC_021166.1	Ca_Kabuli_Chr07	7856552	TT	CC	CC	INTERGENIC		
SNP_47338_A_7856857	NC_021166.1	Ca_Kabuli_Chr07	7856857	AA	GG	GG	INTERGENIC		
SNP_47339_A_7857474	NC_021166.1	Ca_Kabuli_Chr07	7857474	GG	AA	AA	INTERGENIC		
SNP_47340_A_7859334	NC_021166.1	Ca_Kabuli_Chr07	7859334	AA	CC	CC	INTERGENIC		
SNP_47341_A_7861057	NC_021166.1	Ca_Kabuli_Chr07	7861057	TT	AA	AA	INTERGENIC		
SNP_47342_A_7861095	NC_021166.1	Ca_Kabuli_Chr07	7861095	CC	TT	TT	INTERGENIC		

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SNP_47343_A_7861694	NC_021166.1	Ca_Kabuli_Chr07	7861694	CC	TT	TT	INTERGENIC		
SNP_47345_A_7862000	NC_021166.1	Ca_Kabuli_Chr07	7862000	AA	GG	GG	DRR	101504639	transcription factor BIM1
SNP_47346_A_7865687	NC_021166.1	Ca_Kabuli_Chr07	7865687	CC	TT	TT	INTRON	101504639	transcription factor BIM1
SNP_47347_A_7865802	NC_021166.1	Ca_Kabuli_Chr07	7865802	TT	CC	CC	INTRON	101504639	transcription factor BIM1
SNP_47348_A_7870792	NC_021166.1	Ca_Kabuli_Chr07	7870792	GG	CC	CC	INTERGENIC		
SNP_47352_A_7881531	NC_021166.1	Ca_Kabuli_Chr07	7881531	CC	TT	TT	INTERGENIC		
SNP_47353_A_7881535	NC_021166.1	Ca_Kabuli_Chr07	7881535	CC	TT	TT	INTERGENIC		
SNP_47354_A_7881789	NC_021166.1	Ca_Kabuli_Chr07	7881789	GG	AA	AA	INTERGENIC		
SNP_47355_A_7886409	NC_021166.1	Ca_Kabuli_Chr07	7886409	GG	AA	AA	INTERGENIC		
SNP_47356_A_7886410	NC_021166.1	Ca_Kabuli_Chr07	7886410	AA	TT	TT	INTERGENIC		
SNP_47357_A_7886436	NC_021166.1	Ca_Kabuli_Chr07	7886436	GG	TT	TT	INTERGENIC		
SNP_47358_A_7886793	NC_021166.1	Ca_Kabuli_Chr07	7886793	GG	AA	AA	INTERGENIC		
SNP_47359_A_7887690	NC_021166.1	Ca_Kabuli_Chr07	7887690	AA	TT	TT	INTERGENIC		
SNP_47360_A_7887867	NC_021166.1	Ca_Kabuli_Chr07	7887867	GG	AA	AA	DRR	101505486	uncharacterized LOC101505486
SNP_47361_A_7887951	NC_021166.1	Ca_Kabuli_Chr07	7887951	AA	GG	GG	DRR	101505486	uncharacterized LOC101505486
SNP_47362_A_7888032	NC_021166.1	Ca_Kabuli_Chr07	7888032	GG	CC	CC	DRR	101505486	uncharacterized LOC101505486
SNP_47364_A_7888073	NC_021166.1	Ca_Kabuli_Chr07	7888073	CC	TT	TT	DRR	101505486	uncharacterized LOC101505486
SNP_47365_A_7888074	NC_021166.1	Ca_Kabuli_Chr07	7888074	TT	GG	GG	DRR	101505486	uncharacterized LOC101505486
SNP_47366_A_7894258	NC_021166.1	Ca_Kabuli_Chr07	7894258	CC	TT	TT	URR	101505486	uncharacterized LOC101505486
SNP_47367_A_7899175	NC_021166.1	Ca_Kabuli_Chr07	7899175	CC	GG	GG	INTERGENIC		
SNP_47368_A_7899964	NC_021166.1	Ca_Kabuli_Chr07	7899964	AA	CC	CC	INTERGENIC		
SNP_47369_A_7899970	NC_021166.1	Ca_Kabuli_Chr07	7899970	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47370_A_7902049	NC_021166.1	Ca_Kabuli_Chr07	7902049	TT	AA	AA	INTERGENIC		
SNP_47371_A_7903083	NC_021166.1	Ca_Kabuli_Chr07	7903083	GG	AA	AA	INTERGENIC		
SNP_47372_A_7903086	NC_021166.1	Ca_Kabuli_Chr07	7903086	GG	AA	AA	INTERGENIC		
SNP_47373_A_7903107	NC_021166.1	Ca_Kabuli_Chr07	7903107	GG	AA	AA	INTERGENIC		
SNP_47374_A_7903343	NC_021166.1	Ca_Kabuli_Chr07	7903343	AA	TT	TT	INTERGENIC		
SNP_47375_A_7903375	NC_021166.1	Ca_Kabuli_Chr07	7903375	AA	GG	GG	INTERGENIC		
SNP_47376_A_7909700	NC_021166.1	Ca_Kabuli_Chr07	7909700	AA	GG	GG	INTERGENIC		
SNP_47378_A_7910942	NC_021166.1	Ca_Kabuli_Chr07	7910942	TT	GG	GG	INTERGENIC		
SNP_47379_A_7911261	NC_021166.1	Ca_Kabuli_Chr07	7911261	GG	AA	AA	INTERGENIC		
SNP_47380_A_7913085	NC_021166.1	Ca_Kabuli_Chr07	7913085	CC	TT	TT	INTERGENIC		
SNP_47381_A_7917433	NC_021166.1	Ca_Kabuli_Chr07	7917433	TT	CC	CC	URR	101506353	dof zinc finger protein DOF5.4
SNP_47382_A_7917631	NC_021166.1	Ca_Kabuli_Chr07	7917631	GG	AA	AA	URR	101506353	dof zinc finger protein DOF5.4
SNP_47383_A_7922263	NC_021166.1	Ca_Kabuli_Chr07	7922263	AA	GG	GG	INTERGENIC		
SNP_47384_A_7924079	NC_021166.1	Ca_Kabuli_Chr07	7924079	AA	GG	GG	DRR	101506674	uncharacterized LOC101506674
SNP_47385_A_7928257	NC_021166.1	Ca_Kabuli_Chr07	7928257	CC	TT	TT	DRR	101506898	protein BREAKING OF ASYMMETRY IN THE STOMATAL LINEAGE
SNP_47386_A_7931677	NC_021166.1	Ca_Kabuli_Chr07	7931677	AA	GG	GG	INTERGENIC		
SNP_47387_A_7934723	NC_021166.1	Ca_Kabuli_Chr07	7934723	CC	TT	TT	INTERGENIC		
SNP_47388_A_7938097	NC_021166.1	Ca_Kabuli_Chr07	7938097	TT	CC	CC	INTERGENIC		
SNP_47389_A_7942318	NC_021166.1	Ca_Kabuli_Chr07	7942318	TT	GG	GG	URR	101507332	probable galacturonosyltransferase 11
SNP_47390_A_7942319	NC_021166.1	Ca_Kabuli_Chr07	7942319	AA	GG	GG	URR	101507332	probable galacturonosyltransferase 11
SNP_47391_A_7942345	NC_021166.1	Ca_Kabuli_Chr07	7942345	AA	GG	GG	URR	101507332	probable galacturonosyltransferase 11
SNP_47392_A_7942781	NC_021166.1	Ca_Kabuli_Chr07	7942781	GG	AA	AA	DRR	101508168	uncharacterized LOC101508168

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SNP_47393_A_7944322	NC_021166.1	Ca_Kabuli_Chr07	7944322	AA	CC	CC	INTERGENIC		
SNP_47394_A_7944500	NC_021166.1	Ca_Kabuli_Chr07	7944500	AA	TT	TT	DRR	101507855	truncated transcription factor CAULIFLOWER A
SNP_47396_A_7945838	NC_021166.1	Ca_Kabuli_Chr07	7945838	CC	GG	GG	URR	101508168	uncharacterized LOC101508168
SNP_47397_A_7947008	NC_021166.1	Ca_Kabuli_Chr07	7947008	TT	CC	CC	INTRON	101507855	truncated transcription factor CAULIFLOWER A
SNP_47398_A_7948806	NC_021166.1	Ca_Kabuli_Chr07	7948806	GG	AA	AA	INTRON	101507855	truncated transcription factor CAULIFLOWER A
SNP_47399_A_7948885	NC_021166.1	Ca_Kabuli_Chr07	7948885	GG	AA	AA	INTRON	101507855	truncated transcription factor CAULIFLOWER A
SNP_47400_A_7949231	NC_021166.1	Ca_Kabuli_Chr07	7949231	GG	AA	AA	INTRON	101507855	truncated transcription factor CAULIFLOWER A
SNP_47401_A_7949290	NC_021166.1	Ca_Kabuli_Chr07	7949290	GG	CC	CC	INTRON	101507855	truncated transcription factor CAULIFLOWER A
SNP_47404_A_7953881	NC_021166.1	Ca_Kabuli_Chr07	7953881	CC	TT	TT	INTERGENIC		
SNP_47405_A_7954408	NC_021166.1	Ca_Kabuli_Chr07	7954408	CC	TT	TT	INTERGENIC		
SNP_47407_A_7958036	NC_021166.1	Ca_Kabuli_Chr07	7958036	AA	GG	GG	INTERGENIC		
SNP_47409_A_7959516	NC_021166.1	Ca_Kabuli_Chr07	7959516	GG	AA	AA	INTERGENIC		
SNP_47410_A_7959528	NC_021166.1	Ca_Kabuli_Chr07	7959528	CC	TT	TT	INTERGENIC		
SNP_47411_A_7959785	NC_021166.1	Ca_Kabuli_Chr07	7959785	TT	CC	CC	INTERGENIC		
SNP_47414_A_7963128	NC_021166.1	Ca_Kabuli_Chr07	7963128	CC	AA	AA	INTERGENIC		
SNP_47415_A_7968986	NC_021166.1	Ca_Kabuli_Chr07	7968986	TT	GG	GG	INTRON	101508495	MADS-box protein CMB1-like
SNP_47416_A_7969123	NC_021166.1	Ca_Kabuli_Chr07	7969123	AA	TT	TT	INTRON	101508495	MADS-box protein CMB1-like
SNP_47417_A_7969135	NC_021166.1	Ca_Kabuli_Chr07	7969135	AA	GG	GG	INTRON	101508495	MADS-box protein CMB1-like
SNP_47418_A_7969141	NC_021166.1	Ca_Kabuli_Chr07	7969141	CC	AA	AA	INTRON	101508495	MADS-box protein CMB1-like
SNP_47419_A_7969160	NC_021166.1	Ca_Kabuli_Chr07	7969160	AA	GG	GG	INTRON	101508495	MADS-box protein CMB1-like
SNP_47420_A_7969173	NC_021166.1	Ca_Kabuli_Chr07	7969173	AA	GG	GG	INTRON	101508495	MADS-box protein CMB1-like
SNP_47421_A_7969196	NC_021166.1	Ca_Kabuli_Chr07	7969196	AA	TT	TT	INTRON	101508495	MADS-box protein CMB1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47422_A_7969215	NC_021166.1	Ca_Kabuli_Chr07	7969215	GG	AA	AA	INTRON	101508495	MADS-box protein CMB1-like
SNP_47423_A_7970595	NC_021166.1	Ca_Kabuli_Chr07	7970595	AA	TT	TT	SYNONYMOUS_CODING	101508495	MADS-box protein CMB1-like
SNP_47424_A_7970709	NC_021166.1	Ca_Kabuli_Chr07	7970709	CC	GG	GG	NON_SYNONYMOUS_CODING	101508495	MADS-box protein CMB1-like
SNP_47425_A_7970711	NC_021166.1	Ca_Kabuli_Chr07	7970711	GG	CC	CC	NON_SYNONYMOUS_CODING	101508495	MADS-box protein CMB1-like
SNP_47426_A_7977713	NC_021166.1	Ca_Kabuli_Chr07	7977713	GG	AA	AA	INTERGENIC		
SNP_47427_A_7979539	NC_021166.1	Ca_Kabuli_Chr07	7979539	CC	AA	AA	INTERGENIC		
SNP_47428_A_7979613	NC_021166.1	Ca_Kabuli_Chr07	7979613	TT	CC	CC	INTERGENIC		
SNP_47429_A_7981881	NC_021166.1	Ca_Kabuli_Chr07	7981881	CC	TT	TT	DRR	101508803	ABC transporter B family member 25
SNP_47430_A_7981900	NC_021166.1	Ca_Kabuli_Chr07	7981900	CC	AA	AA	DRR	101508803	ABC transporter B family member 25
SNP_47431_A_7982163	NC_021166.1	Ca_Kabuli_Chr07	7982163	CC	TT	TT	INTRON	101508803	ABC transporter B family member 25
SNP_47432_A_7988091	NC_021166.1	Ca_Kabuli_Chr07	7988091	TT	AA	AA	DRR	101509342	uncharacterized protein C13E7.11
SNP_47433_A_7988231	NC_021166.1	Ca_Kabuli_Chr07	7988231	AA	CC	CC	DRR	101509342	uncharacterized protein C13E7.11
SNP_47434_A_7988411	NC_021166.1	Ca_Kabuli_Chr07	7988411	TT	CC	CC	DRR	101509342	uncharacterized protein C13E7.11
SNP_47435_A_7995654	NC_021166.1	Ca_Kabuli_Chr07	7995654	TT	CC	CC	URR	101509342	uncharacterized protein C13E7.11
SNP_47436_A_7995703	NC_021166.1	Ca_Kabuli_Chr07	7995703	GG	AA	AA	URR	101509342	uncharacterized protein C13E7.11
SNP_47437_A_7998692	NC_021166.1	Ca_Kabuli_Chr07	7998692	AA	GG	GG	INTERGENIC		
SNP_47438_A_7998701	NC_021166.1	Ca_Kabuli_Chr07	7998701	GG	AA	AA	INTERGENIC		
SNP_47439_A_8002782	NC_021166.1	Ca_Kabuli_Chr07	8002782	CC	TT	TT	DRR	101509662	tip elongation aberrant protein 1
SNP_47440_A_8002816	NC_021166.1	Ca_Kabuli_Chr07	8002816	GG	AA	AA	DRR	101509662	tip elongation aberrant protein 1
SNP_47441_A_8002833	NC_021166.1	Ca_Kabuli_Chr07	8002833	TT	AA	AA	DRR	101509662	tip elongation aberrant protein 1
SNP_47442_A_8005460	NC_021166.1	Ca_Kabuli_Chr07	8005460	TT	CC	CC	INTRON	101509662	tip elongation aberrant protein 1
SNP_47443_A_8010687	NC_021166.1	Ca_Kabuli_Chr07	8010687	TT	GG	GG	DRR	101410574	transfer RNA threonine (anticodon CGU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47445_A_8010977	NC_021166.1	Ca_Kabuli_Chr07	8010977	AA	TT	TT	DRR	101410574	transfer RNA threonine (anticodon CGU)
SNP_47446_A_8010994	NC_021166.1	Ca_Kabuli_Chr07	8010994	CC	TT	TT	DRR	101410574	transfer RNA threonine (anticodon CGU)
SNP_47447_A_8011010	NC_021166.1	Ca_Kabuli_Chr07	8011010	GG	TT	TT	DRR	101410574	transfer RNA threonine (anticodon CGU)
SNP_47448_A_8011842	NC_021166.1	Ca_Kabuli_Chr07	8011842	TT	CC	CC	URR	101509662	tip elongation aberrant protein 1
SNP_47450_A_8017471	NC_021166.1	Ca_Kabuli_Chr07	8017471	GG	AA	AA	URR	101510192	transcription factor TCP17
SNP_47451_A_8017518	NC_021166.1	Ca_Kabuli_Chr07	8017518	CC	TT	TT	URR	101510192	transcription factor TCP17
SNP_47452_A_8017642	NC_021166.1	Ca_Kabuli_Chr07	8017642	GG	AA	AA	URR	101510192	transcription factor TCP17
SNP_47454_A_8021061	NC_021166.1	Ca_Kabuli_Chr07	8021061	CC	TT	TT	INTERGENIC		
SNP_47455_A_8022320	NC_021166.1	Ca_Kabuli_Chr07	8022320	AA	CC	CC	INTERGENIC		
SNP_47456_A_8022344	NC_021166.1	Ca_Kabuli_Chr07	8022344	GG	AA	AA	INTERGENIC		
SNP_47459_A_8030124	NC_021166.1	Ca_Kabuli_Chr07	8030124	TT	GG	GG	URR	101510524	uncharacterized LOC101510524
SNP_47460_A_8031201	NC_021166.1	Ca_Kabuli_Chr07	8031201	CC	TT	TT	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47461_A_8031267	NC_021166.1	Ca_Kabuli_Chr07	8031267	CC	TT	TT	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47462_A_8031275	NC_021166.1	Ca_Kabuli_Chr07	8031275	CC	TT	TT	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47463_A_8031299	NC_021166.1	Ca_Kabuli_Chr07	8031299	AA	GG	GG	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47464_A_8031654	NC_021166.1	Ca_Kabuli_Chr07	8031654	TT	CC	CC	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47465_A_8031664	NC_021166.1	Ca_Kabuli_Chr07	8031664	TT	GG	GG	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47466_A_8031989	NC_021166.1	Ca_Kabuli_Chr07	8031989	TT	GG	GG	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47467_A_8031996	NC_021166.1	Ca_Kabuli_Chr07	8031996	CC	TT	TT	DRR	101510849	ras GTPase-activating protein-binding protein 1
SNP_47469_A_8034202	NC_021166.1	Ca_Kabuli_Chr07	8034202	CC	AA	AA	INTRON	101510849	ras GTPase-activating protein-binding protein 1
SNP_47470_A_8037346	NC_021166.1	Ca_Kabuli_Chr07	8037346	TT	AA	AA	INTRON	101510849	ras GTPase-activating protein-binding protein 1
SNP_47471_A_8037357	NC_021166.1	Ca_Kabuli_Chr07	8037357	TT	AA	AA	INTRON	101510849	ras GTPase-activating protein-binding protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47472_A_8039633	NC_021166.1	Ca_Kabuli_Chr07	8039633	AA	TT	TT	DRR	101511174	mitochondrial import receptor subunit TOM5 homolog
SNP_47473_A_8039658	NC_021166.1	Ca_Kabuli_Chr07	8039658	TT	CC	CC	DRR	101511174	mitochondrial import receptor subunit TOM5 homolog
SNP_47474_A_8040771	NC_021166.1	Ca_Kabuli_Chr07	8040771	GG	AA	AA	INTERGENIC		
SNP_47475_A_8044652	NC_021166.1	Ca_Kabuli_Chr07	8044652	GG	AA	AA	DRR	101511486	glycerophosphodiester phosphodiesterase GDPD6
SNP_47476_A_8049593	NC_021166.1	Ca_Kabuli_Chr07	8049593	CC	AA	AA	DRR	101512349	uncharacterized LOC101512349
SNP_47477_A_8056100	NC_021166.1	Ca_Kabuli_Chr07	8056100	CC	TT	TT	INTERGENIC		
SNP_47478_A_8057415	NC_021166.1	Ca_Kabuli_Chr07	8057415	CC	GG	GG	URR	101511812	uncharacterized LOC101511812
SNP_47479_A_8057420	NC_021166.1	Ca_Kabuli_Chr07	8057420	TT	GG	GG	URR	101511812	uncharacterized LOC101511812
SNP_47480_A_8057896	NC_021166.1	Ca_Kabuli_Chr07	8057896	CC	AA	AA	URR	101511812	uncharacterized LOC101511812
SNP_47481_A_8057897	NC_021166.1	Ca_Kabuli_Chr07	8057897	AA	TT	TT	URR	101511812	uncharacterized LOC101511812
SNP_47482_A_8057900	NC_021166.1	Ca_Kabuli_Chr07	8057900	GG	CC	CC	URR	101511812	uncharacterized LOC101511812
SNP_47483_A_8057901	NC_021166.1	Ca_Kabuli_Chr07	8057901	TT	GG	GG	URR	101511812	uncharacterized LOC101511812
SNP_47484_A_8057905	NC_021166.1	Ca_Kabuli_Chr07	8057905	CC	TT	TT	URR	101511812	uncharacterized LOC101511812
SNP_47485_A_8057917	NC_021166.1	Ca_Kabuli_Chr07	8057917	CC	TT	TT	URR	101511812	uncharacterized LOC101511812
SNP_47486_A_8057954	NC_021166.1	Ca_Kabuli_Chr07	8057954	CC	AA	AA	URR	101511812	uncharacterized LOC101511812
SNP_47487_A_8058209	NC_021166.1	Ca_Kabuli_Chr07	8058209	AA	GG	GG	URR	101511812	uncharacterized LOC101511812
SNP_47488_A_8058234	NC_021166.1	Ca_Kabuli_Chr07	8058234	TT	AA	AA	URR	101511812	uncharacterized LOC101511812
SNP_47489_A_8058236	NC_021166.1	Ca_Kabuli_Chr07	8058236	GG	CC	CC	URR	101511812	uncharacterized LOC101511812
SNP_47490_A_8059286	NC_021166.1	Ca_Kabuli_Chr07	8059286	GG	AA	AA	INTERGENIC		
SNP_47491_A_8059299	NC_021166.1	Ca_Kabuli_Chr07	8059299	GG	AA	AA	INTERGENIC		
SNP_47492_A_8063770	NC_021166.1	Ca_Kabuli_Chr07	8063770	GG	TT	TT	INTERGENIC		
SNP_47493_A_8067082	NC_021166.1	Ca_Kabuli_Chr07	8067082	AA	GG	GG	DRR	101512991	uncharacterized LOC101512991

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47494_A_8067090	NC_021166.1	Ca_Kabuli_Chr07	8067090	GG	TT	TT	DRR	101512991	uncharacterized LOC101512991
SNP_47495_A_8067101	NC_021166.1	Ca_Kabuli_Chr07	8067101	TT	CC	CC	DRR	101512991	uncharacterized LOC101512991
SNP_47496_A_8067240	NC_021166.1	Ca_Kabuli_Chr07	8067240	CC	TT	TT	DRR	101512991	uncharacterized LOC101512991
SNP_47497_A_8067274	NC_021166.1	Ca_Kabuli_Chr07	8067274	GG	AA	AA	DRR	101512991	uncharacterized LOC101512991
SNP_47498_A_8067317	NC_021166.1	Ca_Kabuli_Chr07	8067317	GG	AA	AA	DRR	101512991	uncharacterized LOC101512991
SNP_47499_A_8067352	NC_021166.1	Ca_Kabuli_Chr07	8067352	TT	CC	CC	DRR	101512991	uncharacterized LOC101512991
SNP_47500_A_8069149	NC_021166.1	Ca_Kabuli_Chr07	8069149	AA	CC	CC	INTERGENIC		
SNP_47501_A_8081550	NC_021166.1	Ca_Kabuli_Chr07	8081550	GG	AA	AA	INTERGENIC		
SNP_47502_A_8081906	NC_021166.1	Ca_Kabuli_Chr07	8081906	TT	CC	CC	INTERGENIC		
SNP_47503_A_8082161	NC_021166.1	Ca_Kabuli_Chr07	8082161	TT	GG	GG	INTERGENIC		
SNP_47505_A_8096885	NC_021166.1	Ca_Kabuli_Chr07	8096885	CC	TT	TT	URR	101513642	DNA topoisomerase 1-like
SNP_47506_A_8097022	NC_021166.1	Ca_Kabuli_Chr07	8097022	TT	CC	CC	URR	101513642	DNA topoisomerase 1-like
SNP_47507_A_8097149	NC_021166.1	Ca_Kabuli_Chr07	8097149	CC	TT	TT	URR	101513642	DNA topoisomerase 1-like
SNP_47508_A_8100998	NC_021166.1	Ca_Kabuli_Chr07	8100998	TT	GG	GG	URR	101507227	serine/threonine-protein phosphatase 7 long form homolog
SNP_47509_A_8107709	NC_021166.1	Ca_Kabuli_Chr07	8107709	AA	GG	GG	INTERGENIC		
SNP_47511_A_8109856	NC_021166.1	Ca_Kabuli_Chr07	8109856	AA	GG	GG	INTERGENIC		
SNP_47512_A_8109896	NC_021166.1	Ca_Kabuli_Chr07	8109896	GG	TT	TT	INTERGENIC		
SNP_47513_A_8109902	NC_021166.1	Ca_Kabuli_Chr07	8109902	TT	CC	CC	INTERGENIC		
SNP_47514_A_8117698	NC_021166.1	Ca_Kabuli_Chr07	8117698	GG	AA	AA	INTERGENIC		
SNP_47515_A_8122431	NC_021166.1	Ca_Kabuli_Chr07	8122431	AA	GG	GG	DRR	101515052	respiratory burst oxidase homolog protein A-like
SNP_47516_A_8124729	NC_021166.1	Ca_Kabuli_Chr07	8124729	AA	GG	GG	INTERGENIC		
SNP_47517_A_8125065	NC_021166.1	Ca_Kabuli_Chr07	8125065	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47518_A_8146702	NC_021166.1	Ca_Kabuli_Chr07	8146702	TT	AA	AA	URR	101488469	histone deacetylase 5-like
SNP_47519_A_8146706	NC_021166.1	Ca_Kabuli_Chr07	8146706	AA	TT	TT	URR	101488469	histone deacetylase 5-like
SNP_47520_A_8146727	NC_021166.1	Ca_Kabuli_Chr07	8146727	CC	TT	TT	URR	101488469	histone deacetylase 5-like
SNP_47521_A_8147803	NC_021166.1	Ca_Kabuli_Chr07	8147803	TT	CC	CC	URR	101488469	histone deacetylase 5-like
SNP_47522_A_8147813	NC_021166.1	Ca_Kabuli_Chr07	8147813	GG	CC	CC	URR	101488469	histone deacetylase 5-like
SNP_47524_A_8152046	NC_021166.1	Ca_Kabuli_Chr07	8152046	TT	AA	AA	INTERGENIC		
SNP_47525_A_8152103	NC_021166.1	Ca_Kabuli_Chr07	8152103	AA	CC	CC	INTERGENIC		
SNP_47526_A_8152289	NC_021166.1	Ca_Kabuli_Chr07	8152289	GG	AA	AA	INTERGENIC		
SNP_47527_A_8153850	NC_021166.1	Ca_Kabuli_Chr07	8153850	TT	GG	GG	INTERGENIC		
SNP_47528_A_8157792	NC_021166.1	Ca_Kabuli_Chr07	8157792	GG	AA	AA	INTERGENIC		
SNP_47531_A_8166389	NC_021166.1	Ca_Kabuli_Chr07	8166389	CC	TT	TT	INTERGENIC		
SNP_47532_A_8167494	NC_021166.1	Ca_Kabuli_Chr07	8167494	CC	TT	TT	INTERGENIC		
SNP_47533_A_8167577	NC_021166.1	Ca_Kabuli_Chr07	8167577	TT	GG	GG	INTERGENIC		
SNP_47535_A_8172501	NC_021166.1	Ca_Kabuli_Chr07	8172501	GG	AA	AA	URR	101489134	transmembrane protein adipocyte-associated 1 homolog
SNP_47536_A_8175765	NC_021166.1	Ca_Kabuli_Chr07	8175765	CC	TT	TT	INTRON	101507543	flavonoid 3'-monooxygenase
SNP_47537_A_8177501	NC_021166.1	Ca_Kabuli_Chr07	8177501	CC	TT	TT	INTRON	101507543	flavonoid 3'-monooxygenase
SNP_47538_A_8177607	NC_021166.1	Ca_Kabuli_Chr07	8177607	TT	GG	GG	INTRON	101507543	flavonoid 3'-monooxygenase
SNP_47539_A_8178750	NC_021166.1	Ca_Kabuli_Chr07	8178750	GG	AA	AA	INTRON	101507543	flavonoid 3'-monooxygenase
SNP_47540_A_8181404	NC_021166.1	Ca_Kabuli_Chr07	8181404	TT	AA	AA	URR	101507543	flavonoid 3'-monooxygenase
SNP_47541_A_8183374	NC_021166.1	Ca_Kabuli_Chr07	8183374	AA	GG	GG	INTERGENIC		
SNP_47542_A_8187396	NC_021166.1	Ca_Kabuli_Chr07	8187396	CC	AA	AA	INTRON	101489671	chaperone protein ClpB1
SNP_47543_A_8190093	NC_021166.1	Ca_Kabuli_Chr07	8190093	GG	AA	AA	URR	101489671	chaperone protein ClpB1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47544_A_8190679	NC_021166.1	Ca_Kabuli_Chr07	8190679	GG	AA	AA	URR	101489671	chaperone protein ClpB1
SNP_47545_A_8190841	NC_021166.1	Ca_Kabuli_Chr07	8190841	GG	TT	TT	URR	101489671	chaperone protein ClpB1
SNP_47546_A_8191209	NC_021166.1	Ca_Kabuli_Chr07	8191209	GG	CC	CC	URR	101489671	chaperone protein ClpB1
SNP_47547_A_8193470	NC_021166.1	Ca_Kabuli_Chr07	8193470	GG	CC	CC	INTERGENIC		
SNP_47548_A_8193525	NC_021166.1	Ca_Kabuli_Chr07	8193525	TT	CC	CC	INTERGENIC		
SNP_47549_A_8207369	NC_021166.1	Ca_Kabuli_Chr07	8207369	AA	GG	GG	NON_SYNONYMOUS_CODING	101489994	uncharacterized LOC101489994
SNP_47552_A_8218104	NC_021166.1	Ca_Kabuli_Chr07	8218104	GG	AA	AA	INTERGENIC		
SNP_47553_A_8221768	NC_021166.1	Ca_Kabuli_Chr07	8221768	GG	AA	AA	URR	101490978	uncharacterized LOC101490978
SNP_47554_A_8222263	NC_021166.1	Ca_Kabuli_Chr07	8222263	GG	AA	AA	URR	101490978	uncharacterized LOC101490978
SNP_47555_A_8222552	NC_021166.1	Ca_Kabuli_Chr07	8222552	AA	GG	GG	URR	101490978	uncharacterized LOC101490978
SNP_47556_A_8224802	NC_021166.1	Ca_Kabuli_Chr07	8224802	AA	GG	GG	INTERGENIC		
SNP_47557_A_8225503	NC_021166.1	Ca_Kabuli_Chr07	8225503	TT	CC	CC	INTERGENIC		
SNP_47558_A_8225548	NC_021166.1	Ca_Kabuli_Chr07	8225548	TT	CC	CC	INTERGENIC		
SNP_47559_A_8227109	NC_021166.1	Ca_Kabuli_Chr07	8227109	AA	GG	GG	INTRON	101491290	diacylglycerol kinase 1
SNP_47560_A_8227135	NC_021166.1	Ca_Kabuli_Chr07	8227135	GG	AA	AA	URR	101491290	diacylglycerol kinase 1
SNP_47561_A_8232363	NC_021166.1	Ca_Kabuli_Chr07	8232363	CC	AA	AA	INTRON	101491290	diacylglycerol kinase 1
SNP_47562_A_8233776	NC_021166.1	Ca_Kabuli_Chr07	8233776	GG	AA	AA	URR	101491290	diacylglycerol kinase 1
SNP_47563_A_8234889	NC_021166.1	Ca_Kabuli_Chr07	8234889	TT	AA	AA	URR	101491290	diacylglycerol kinase 1
SNP_47564_A_8234940	NC_021166.1	Ca_Kabuli_Chr07	8234940	GG	AA	AA	INTERGENIC		
SNP_47565_A_8234945	NC_021166.1	Ca_Kabuli_Chr07	8234945	CC	TT	TT	INTERGENIC		
SNP_47566_A_8236125	NC_021166.1	Ca_Kabuli_Chr07	8236125	CC	TT	TT	INTERGENIC		
SNP_47567_A_8239663	NC_021166.1	Ca_Kabuli_Chr07	8239663	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47569_A_8241887	NC_021166.1	Ca_Kabuli_Chr07	8241887	GG	AA	AA	INTERGENIC		
SNP_47570_A_8243899	NC_021166.1	Ca_Kabuli_Chr07	8243899	TT	AA	AA	INTERGENIC		
SNP_47571_A_8245245	NC_021166.1	Ca_Kabuli_Chr07	8245245	AA	CC	CC	INTERGENIC		
SNP_47572_A_8245258	NC_021166.1	Ca_Kabuli_Chr07	8245258	CC	TT	TT	INTERGENIC		
SNP_47574_A_8246527	NC_021166.1	Ca_Kabuli_Chr07	8246527	AA	GG	GG	INTERGENIC		
SNP_47575_A_8246695	NC_021166.1	Ca_Kabuli_Chr07	8246695	GG	AA	AA	INTERGENIC		
SNP_47576_A_8246706	NC_021166.1	Ca_Kabuli_Chr07	8246706	GG	TT	TT	INTERGENIC		
SNP_47577_A_8249728	NC_021166.1	Ca_Kabuli_Chr07	8249728	TT	CC	CC	NON_SYNONYMOUS_CODING	101491614	uncharacterized LOC101491614
SNP_47579_A_8251550	NC_021166.1	Ca_Kabuli_Chr07	8251550	AA	GG	GG	URR	101491614	uncharacterized LOC101491614
SNP_47580_A_8252168	NC_021166.1	Ca_Kabuli_Chr07	8252168	CC	GG	GG	INTERGENIC		
SNP_47581_A_8254113	NC_021166.1	Ca_Kabuli_Chr07	8254113	TT	CC	CC	DRR	101492257	synaptonemal complex protein 1
SNP_47582_A_8254129	NC_021166.1	Ca_Kabuli_Chr07	8254129	GG	AA	AA	DRR	101492257	synaptonemal complex protein 1
SNP_47583_A_8254513	NC_021166.1	Ca_Kabuli_Chr07	8254513	TT	GG	GG	DRR	101492257	synaptonemal complex protein 1
SNP_47584_A_8254527	NC_021166.1	Ca_Kabuli_Chr07	8254527	AA	GG	GG	DRR	101492257	synaptonemal complex protein 1
SNP_47585_A_8254529	NC_021166.1	Ca_Kabuli_Chr07	8254529	GG	AA	AA	DRR	101492257	synaptonemal complex protein 1
SNP_47586_A_8254543	NC_021166.1	Ca_Kabuli_Chr07	8254543	GG	AA	AA	DRR	101492257	synaptonemal complex protein 1
SNP_47587_A_8254594	NC_021166.1	Ca_Kabuli_Chr07	8254594	CC	TT	TT	DRR	101492257	synaptonemal complex protein 1
SNP_47588_A_8262006	NC_021166.1	Ca_Kabuli_Chr07	8262006	TT	CC	CC	URR	101491922	2-alkenal reductase (NADP(+)-dependent)-like
SNP_47589_A_8262183	NC_021166.1	Ca_Kabuli_Chr07	8262183	CC	TT	TT	URR	101491922	2-alkenal reductase (NADP(+)-dependent)-like
SNP_47590_A_8265361	NC_021166.1	Ca_Kabuli_Chr07	8265361	CC	TT	TT	INTERGENIC		
SNP_47591_A_8266657	NC_021166.1	Ca_Kabuli_Chr07	8266657	GG	AA	AA	INTERGENIC		
SNP_47592_A_8266691	NC_021166.1	Ca_Kabuli_Chr07	8266691	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47593_A_8267085	NC_021166.1	Ca_Kabuli_Chr07	8267085	CC	TT	TT		DRR	101493679	heparanase-like protein 1
SNP_47594_A_8267467	NC_021166.1	Ca_Kabuli_Chr07	8267467	TT	CC	CC		DRR	101493679	heparanase-like protein 1
SNP_47595_A_8267793	NC_021166.1	Ca_Kabuli_Chr07	8267793	TT	CC	CC		URR	101493133	SNAP25 homologous protein SNAP33
SNP_47596_A_8271471	NC_021166.1	Ca_Kabuli_Chr07	8271471	AA	TT	TT		INTERGENIC		
SNP_47597_A_8271499	NC_021166.1	Ca_Kabuli_Chr07	8271499	TT	AA	AA		INTERGENIC		
SNP_47598_A_8271516	NC_021166.1	Ca_Kabuli_Chr07	8271516	AA	CC	CC		INTERGENIC		
SNP_47599_A_8271521	NC_021166.1	Ca_Kabuli_Chr07	8271521	AA	TT	TT		INTERGENIC		
SNP_47600_A_8271954	NC_021166.1	Ca_Kabuli_Chr07	8271954	TT	CC	CC		INTERGENIC		
SNP_47601_A_8277314	NC_021166.1	Ca_Kabuli_Chr07	8277314	GG	AA	AA		DRR	101495052	calponin homology domain-containing protein DDB_G0272472-like
SNP_47602_A_8277395	NC_021166.1	Ca_Kabuli_Chr07	8277395	TT	GG	GG		DRR	101495052	calponin homology domain-containing protein DDB_G0272472-like
SNP_47603_A_8277711	NC_021166.1	Ca_Kabuli_Chr07	8277711	AA	TT	TT		DRR	101495052	calponin homology domain-containing protein DDB_G0272472-like
SNP_47604_A_8278056	NC_021166.1	Ca_Kabuli_Chr07	8278056	GG	CC	CC		DRR	101495052	calponin homology domain-containing protein DDB_G0272472-like
SNP_47605_A_8292243	NC_021166.1	Ca_Kabuli_Chr07	8292243	AA	CC	CC		INTERGENIC		
SNP_47606_A_8292249	NC_021166.1	Ca_Kabuli_Chr07	8292249	GG	AA	AA		INTERGENIC		
SNP_47607_A_8292605	NC_021166.1	Ca_Kabuli_Chr07	8292605	AA	TT	TT		INTERGENIC		
SNP_47608_A_8293303	NC_021166.1	Ca_Kabuli_Chr07	8293303	AA	GG	GG		URR	101495381	uncharacterized LOC101495381
SNP_47609_A_8293380	NC_021166.1	Ca_Kabuli_Chr07	8293380	TT	AA	AA		URR	101495381	uncharacterized LOC101495381
SNP_47610_A_8293674	NC_021166.1	Ca_Kabuli_Chr07	8293674	TT	CC	CC		DRR	101495925	uncharacterized LOC101495925
SNP_47611_A_8302089	NC_021166.1	Ca_Kabuli_Chr07	8302089	CC	TT	TT		INTERGENIC		
SNP_47612_A_8302975	NC_021166.1	Ca_Kabuli_Chr07	8302975	TT	CC	CC		INTERGENIC		
SNP_47613_A_8303015	NC_021166.1	Ca_Kabuli_Chr07	8303015	AA	GG	GG		INTERGENIC		
SNP_47615_A_8304078	NC_021166.1	Ca_Kabuli_Chr07	8304078	CC	TT	TT		DRR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47616_A_8309769	NC_021166.1	Ca_Kabuli_Chr07	8309769	GG	TT	TT	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47617_A_8309788	NC_021166.1	Ca_Kabuli_Chr07	8309788	TT	GG	GG	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47618_A_8310070	NC_021166.1	Ca_Kabuli_Chr07	8310070	CC	TT	TT	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47619_A_8310078	NC_021166.1	Ca_Kabuli_Chr07	8310078	TT	CC	CC	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47620_A_8310535	NC_021166.1	Ca_Kabuli_Chr07	8310535	TT	CC	CC	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47621_A_8310544	NC_021166.1	Ca_Kabuli_Chr07	8310544	AA	GG	GG	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47622_A_8310553	NC_021166.1	Ca_Kabuli_Chr07	8310553	GG	TT	TT	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47623_A_8310583	NC_021166.1	Ca_Kabuli_Chr07	8310583	AA	TT	TT	URR	101496260	probable LRR receptor-like serine/threonine-protein kinase At1g74360
SNP_47627_A_8342965	NC_021166.1	Ca_Kabuli_Chr07	8342965	TT	GG	GG	INTERGENIC		
SNP_47628_A_8342977	NC_021166.1	Ca_Kabuli_Chr07	8342977	TT	GG	GG	INTERGENIC		
SNP_47629_A_8343865	NC_021166.1	Ca_Kabuli_Chr07	8343865	GG	AA	AA	URR	101498113	eukaryotic translation initiation factor 5A-2
SNP_47630_A_8344582	NC_021166.1	Ca_Kabuli_Chr07	8344582	GG	AA	AA	URR	101498113	eukaryotic translation initiation factor 5A-2
SNP_47631_A_8347422	NC_021166.1	Ca_Kabuli_Chr07	8347422	AA	GG	GG	INTERGENIC		
SNP_47632_A_8348235	NC_021166.1	Ca_Kabuli_Chr07	8348235	TT	AA	AA	INTERGENIC		
SNP_47633_A_8348236	NC_021166.1	Ca_Kabuli_Chr07	8348236	TT	AA	AA	INTERGENIC		
SNP_47634_A_8348267	NC_021166.1	Ca_Kabuli_Chr07	8348267	AA	GG	GG	INTERGENIC		
SNP_47635_A_8348490	NC_021166.1	Ca_Kabuli_Chr07	8348490	AA	TT	TT	INTERGENIC		
SNP_47636_A_8348636	NC_021166.1	Ca_Kabuli_Chr07	8348636	TT	AA	AA	INTERGENIC		
SNP_47637_A_8348637	NC_021166.1	Ca_Kabuli_Chr07	8348637	TT	AA	AA	INTERGENIC		
SNP_47638_A_8350788	NC_021166.1	Ca_Kabuli_Chr07	8350788	TT	CC	CC	INTERGENIC		
SNP_47639_A_8353766	NC_021166.1	Ca_Kabuli_Chr07	8353766	CC	TT	TT	DRR	101498788	probable serine/threonine-protein kinase At1g54610
SNP_47640_A_8356161	NC_021166.1	Ca_Kabuli_Chr07	8356161	CC	AA	AA	INTERGENIC		

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SNP_47641_A_8358840	NC_021166.1	Ca_Kabuli_Chr07	8358840	TT	CC	CC	URR	101498788	probable serine/threonine-protein kinase At1g54610
SNP_47642_A_8359453	NC_021166.1	Ca_Kabuli_Chr07	8359453	CC	GG	GG	URR	101498788	probable serine/threonine-protein kinase At1g54610
SNP_47643_A_8362472	NC_021166.1	Ca_Kabuli_Chr07	8362472	GG	TT	TT	INTERGENIC		
SNP_47644_A_8362594	NC_021166.1	Ca_Kabuli_Chr07	8362594	AA	CC	CC	INTERGENIC		
SNP_47646_A_8363925	NC_021166.1	Ca_Kabuli_Chr07	8363925	TT	CC	CC	INTERGENIC		
SNP_47647_A_8366575	NC_021166.1	Ca_Kabuli_Chr07	8366575	TT	CC	CC	INTERGENIC		
SNP_47648_A_8366577	NC_021166.1	Ca_Kabuli_Chr07	8366577	CC	AA	AA	INTERGENIC		
SNP_47650_A_8366886	NC_021166.1	Ca_Kabuli_Chr07	8366886	CC	GG	GG	INTERGENIC		
SNP_47651_A_8366887	NC_021166.1	Ca_Kabuli_Chr07	8366887	CC	TT	TT	INTERGENIC		
SNP_47652_A_8367638	NC_021166.1	Ca_Kabuli_Chr07	8367638	GG	AA	AA	INTERGENIC		
SNP_47653_A_8367647	NC_021166.1	Ca_Kabuli_Chr07	8367647	TT	AA	AA	INTERGENIC		
SNP_47654_A_8367650	NC_021166.1	Ca_Kabuli_Chr07	8367650	TT	AA	AA	INTERGENIC		
SNP_47656_A_8389867	NC_021166.1	Ca_Kabuli_Chr07	8389867	TT	AA	AA	URR	101499112	uncharacterized LOC101499112
SNP_47657_A_8398942	NC_021166.1	Ca_Kabuli_Chr07	8398942	CC	TT	TT	DRR	101499430	uncharacterized LOC101499430
SNP_47658_A_8401571	NC_021166.1	Ca_Kabuli_Chr07	8401571	AA	GG	GG	INTERGENIC		
SNP_47659_A_8406593	NC_021166.1	Ca_Kabuli_Chr07	8406593	CC	TT	TT	DRR	101508497	pentatricopeptide repeat-containing protein At5g61370, mitochondrial
SNP_47661_A_8410056	NC_021166.1	Ca_Kabuli_Chr07	8410056	TT	CC	CC	INTERGENIC		
SNP_47662_A_8412483	NC_021166.1	Ca_Kabuli_Chr07	8412483	TT	AA	AA	DRR	101500048	pentatricopeptide repeat-containing protein At5g66520-like
SNP_47663_A_8413704	NC_021166.1	Ca_Kabuli_Chr07	8413704	AA	TT	TT	URR	101500048	pentatricopeptide repeat-containing protein At5g66520-like
SNP_47664_A_8416984	NC_021166.1	Ca_Kabuli_Chr07	8416984	GG	AA	AA	URR	101508497	pentatricopeptide repeat-containing protein At5g61370, mitochondrial
SNP_47665_A_8417184	NC_021166.1	Ca_Kabuli_Chr07	8417184	AA	GG	GG	URR	101508497	pentatricopeptide repeat-containing protein At5g61370, mitochondrial
SNP_47666_A_8417200	NC_021166.1	Ca_Kabuli_Chr07	8417200	GG	TT	TT	URR	101508497	pentatricopeptide repeat-containing protein At5g61370, mitochondrial

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47667_A_8417658	NC_021166.1	Ca_Kabuli_Chr07	8417658	AA	GG	GG	URR	101508497	pentatricopeptide repeat-containing protein At5g61370, mitochondrial
SNP_47668_A_8417747	NC_021166.1	Ca_Kabuli_Chr07	8417747	AA	TT	TT	DRR	101500788	two-component response regulator-like APRR1
SNP_47669_A_8421911	NC_021166.1	Ca_Kabuli_Chr07	8421911	AA	TT	TT	INTERGENIC		
SNP_47670_A_8431784	NC_021166.1	Ca_Kabuli_Chr07	8431784	TT	GG	GG	INTERGENIC		
SNP_47671_A_8433066	NC_021166.1	Ca_Kabuli_Chr07	8433066	CC	TT	TT	INTERGENIC		
SNP_47674_A_8439927	NC_021166.1	Ca_Kabuli_Chr07	8439927	TT	AA	AA	INTERGENIC		
SNP_47676_A_8441673	NC_021166.1	Ca_Kabuli_Chr07	8441673	CC	TT	TT	INTERGENIC		
SNP_47677_A_8441996	NC_021166.1	Ca_Kabuli_Chr07	8441996	AA	TT	TT	INTERGENIC		
SNP_47679_A_8442063	NC_021166.1	Ca_Kabuli_Chr07	8442063	CC	AA	AA	INTERGENIC		
SNP_47680_A_8443998	NC_021166.1	Ca_Kabuli_Chr07	8443998	CC	TT	TT	URR	101501537	ribulose-phosphate 3-epimerase, chloroplastic
SNP_47681_A_8444801	NC_021166.1	Ca_Kabuli_Chr07	8444801	GG	CC	CC	INTERGENIC		
SNP_47682_A_8445043	NC_021166.1	Ca_Kabuli_Chr07	8445043	GG	AA	AA	INTERGENIC		
SNP_47683_A_8445096	NC_021166.1	Ca_Kabuli_Chr07	8445096	TT	AA	AA	INTERGENIC		
SNP_47685_A_8445772	NC_021166.1	Ca_Kabuli_Chr07	8445772	GG	AA	AA	INTERGENIC		
SNP_47686_A_8445902	NC_021166.1	Ca_Kabuli_Chr07	8445902	AA	GG	GG	INTERGENIC		
SNP_47687_A_8447979	NC_021166.1	Ca_Kabuli_Chr07	8447979	TT	AA	AA	DRR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47688_A_8447981	NC_021166.1	Ca_Kabuli_Chr07	8447981	CC	TT	TT	DRR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47689_A_8448013	NC_021166.1	Ca_Kabuli_Chr07	8448013	TT	CC	CC	DRR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47690_A_8448036	NC_021166.1	Ca_Kabuli_Chr07	8448036	TT	AA	AA	DRR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47691_A_8453046	NC_021166.1	Ca_Kabuli_Chr07	8453046	GG	AA	AA	URR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47692_A_8453248	NC_021166.1	Ca_Kabuli_Chr07	8453248	GG	TT	TT	URR	101502065	galactoside 2-alpha-L-fucosyltransferase
SNP_47693_A_8454700	NC_021166.1	Ca_Kabuli_Chr07	8454700	AA	GG	GG	INTERGENIC		

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SNP_47694_A_8454869	NC_021166.1	Ca_Kabuli_Chr07	8454869	GG	CC	CC	INTERGENIC		
SNP_47695_A_8458487	NC_021166.1	Ca_Kabuli_Chr07	8458487	AA	GG	GG	INTERGENIC		
SNP_47696_A_8458536	NC_021166.1	Ca_Kabuli_Chr07	8458536	TT	CC	CC	INTERGENIC		
SNP_47697_A_8458550	NC_021166.1	Ca_Kabuli_Chr07	8458550	AA	GG	GG	INTERGENIC		
SNP_47698_A_8458551	NC_021166.1	Ca_Kabuli_Chr07	8458551	TT	AA	AA	INTERGENIC		
SNP_47699_A_8462513	NC_021166.1	Ca_Kabuli_Chr07	8462513	GG	AA	AA	DRR	101502392	NAC domain-containing protein 100
SNP_47700_A_8465859	NC_021166.1	Ca_Kabuli_Chr07	8465859	GG	TT	TT	URR	101502392	NAC domain-containing protein 100
SNP_47701_A_8465920	NC_021166.1	Ca_Kabuli_Chr07	8465920	CC	TT	TT	URR	101502392	NAC domain-containing protein 100
SNP_47702_A_8465939	NC_021166.1	Ca_Kabuli_Chr07	8465939	CC	TT	TT	URR	101502392	NAC domain-containing protein 100
SNP_47703_A_8466207	NC_021166.1	Ca_Kabuli_Chr07	8466207	CC	TT	TT	URR	101502392	NAC domain-containing protein 100
SNP_47704_A_8466368	NC_021166.1	Ca_Kabuli_Chr07	8466368	TT	CC	CC	URR	101502392	NAC domain-containing protein 100
SNP_47705_A_8466759	NC_021166.1	Ca_Kabuli_Chr07	8466759	GG	TT	TT	URR	101502392	NAC domain-containing protein 100
SNP_47708_A_8467702	NC_021166.1	Ca_Kabuli_Chr07	8467702	TT	AA	AA	INTERGENIC		
SNP_47709_A_8469655	NC_021166.1	Ca_Kabuli_Chr07	8469655	AA	CC	CC	INTERGENIC		
SNP_47710_A_8472642	NC_021166.1	Ca_Kabuli_Chr07	8472642	AA	TT	TT	INTERGENIC		
SNP_47711_A_8473069	NC_021166.1	Ca_Kabuli_Chr07	8473069	CC	AA	AA	INTERGENIC		
SNP_47712_A_8473246	NC_021166.1	Ca_Kabuli_Chr07	8473246	TT	CC	CC	INTERGENIC		
SNP_47714_A_8476135	NC_021166.1	Ca_Kabuli_Chr07	8476135	TT	AA	AA	INTERGENIC		
SNP_47715_A_8477310	NC_021166.1	Ca_Kabuli_Chr07	8477310	CC	TT	TT	INTERGENIC		
SNP_47717_A_8478311	NC_021166.1	Ca_Kabuli_Chr07	8478311	GG	TT	TT	INTERGENIC		
SNP_47718_A_8478572	NC_021166.1	Ca_Kabuli_Chr07	8478572	AA	GG	GG	INTERGENIC		
SNP_47719_A_8478573	NC_021166.1	Ca_Kabuli_Chr07	8478573	AA	GG	GG	INTERGENIC		

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SNP_47720_A_8483976	NC_021166.1	Ca_Kabuli_Chr07	8483976	AA	GG	GG	INTRON	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47721_A_8483981	NC_021166.1	Ca_Kabuli_Chr07	8483981	CC	TT	TT	INTRON	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47722_A_8484928	NC_021166.1	Ca_Kabuli_Chr07	8484928	AA	GG	GG	INTRON	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47723_A_8484936	NC_021166.1	Ca_Kabuli_Chr07	8484936	AA	CC	CC	INTRON	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47724_A_8484937	NC_021166.1	Ca_Kabuli_Chr07	8484937	AA	GG	GG	INTRON	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47725_A_8485351	NC_021166.1	Ca_Kabuli_Chr07	8485351	TT	CC	CC	INTERGENIC		
SNP_47726_A_8486395	NC_021166.1	Ca_Kabuli_Chr07	8486395	CC	AA	AA	URR	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47727_A_8486398	NC_021166.1	Ca_Kabuli_Chr07	8486398	TT	CC	CC	URR	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47728_A_8486403	NC_021166.1	Ca_Kabuli_Chr07	8486403	GG	TT	TT	URR	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47729_A_8486415	NC_021166.1	Ca_Kabuli_Chr07	8486415	TT	AA	AA	URR	101502697	MADS-box protein FLOWERING LOCUS C-like
SNP_47730_A_8488160	NC_021166.1	Ca_Kabuli_Chr07	8488160	TT	AA	AA	INTERGENIC		
SNP_47731_A_8488634	NC_021166.1	Ca_Kabuli_Chr07	8488634	CC	TT	TT	INTERGENIC		
SNP_47732_A_8489180	NC_021166.1	Ca_Kabuli_Chr07	8489180	AA	GG	GG	INTERGENIC		
SNP_47734_A_8492796	NC_021166.1	Ca_Kabuli_Chr07	8492796	TT	AA	AA	URR	101503333	cyclic dof factor 3
SNP_47735_A_8492811	NC_021166.1	Ca_Kabuli_Chr07	8492811	TT	AA	AA	URR	101503333	cyclic dof factor 3
SNP_47736_A_8492855	NC_021166.1	Ca_Kabuli_Chr07	8492855	GG	AA	AA	URR	101503333	cyclic dof factor 3
SNP_47737_A_8492884	NC_021166.1	Ca_Kabuli_Chr07	8492884	TT	GG	GG	URR	101503333	cyclic dof factor 3
SNP_47739_A_8493702	NC_021166.1	Ca_Kabuli_Chr07	8493702	TT	CC	CC	URR	101503333	cyclic dof factor 3
SNP_47740_A_8494742	NC_021166.1	Ca_Kabuli_Chr07	8494742	AA	GG	GG	INTERGENIC		
SNP_47741_A_8494743	NC_021166.1	Ca_Kabuli_Chr07	8494743	GG	AA	AA	INTERGENIC		
SNP_47742_A_8494798	NC_021166.1	Ca_Kabuli_Chr07	8494798	GG	TT	TT	INTERGENIC		
SNP_47743_A_8494966	NC_021166.1	Ca_Kabuli_Chr07	8494966	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47744_A_8494999	NC_021166.1	Ca_Kabuli_Chr07	8494999	TT	CC	CC	INTERGENIC		
SNP_47745_A_8495025	NC_021166.1	Ca_Kabuli_Chr07	8495025	AA	CC	CC	INTERGENIC		
SNP_47746_A_8495042	NC_021166.1	Ca_Kabuli_Chr07	8495042	AA	GG	GG	INTERGENIC		
SNP_47747_A_8495053	NC_021166.1	Ca_Kabuli_Chr07	8495053	TT	CC	CC	INTERGENIC		
SNP_47748_A_8496093	NC_021166.1	Ca_Kabuli_Chr07	8496093	CC	TT	TT	DRR	101503663	uncharacterized LOC101503663
SNP_47749_A_8496118	NC_021166.1	Ca_Kabuli_Chr07	8496118	CC	TT	TT	DRR	101503663	uncharacterized LOC101503663
SNP_47750_A_8501053	NC_021166.1	Ca_Kabuli_Chr07	8501053	CC	TT	TT	URR	101503992	GDSL esterase/lipase At1g74460-like
SNP_47751_A_8501056	NC_021166.1	Ca_Kabuli_Chr07	8501056	CC	GG	GG	URR	101503992	GDSL esterase/lipase At1g74460-like
SNP_47752_A_8502093	NC_021166.1	Ca_Kabuli_Chr07	8502093	AA	CC	CC	URR	101503992	GDSL esterase/lipase At1g74460-like
SNP_47753_A_8502406	NC_021166.1	Ca_Kabuli_Chr07	8502406	TT	CC	CC	URR	101503992	GDSL esterase/lipase At1g74460-like
SNP_47754_A_8510162	NC_021166.1	Ca_Kabuli_Chr07	8510162	TT	CC	CC	INTRON	101504312	geranylgeranyl diphosphate reductase, chloroplastic
SNP_47755_A_8511702	NC_021166.1	Ca_Kabuli_Chr07	8511702	CC	AA	AA	INTERGENIC		
SNP_47756_A_8512350	NC_021166.1	Ca_Kabuli_Chr07	8512350	GG	TT	TT	URR	101504312	geranylgeranyl diphosphate reductase, chloroplastic
SNP_47757_A_8513061	NC_021166.1	Ca_Kabuli_Chr07	8513061	AA	GG	GG	URR	101504312	geranylgeranyl diphosphate reductase, chloroplastic
SNP_47758_A_8513366	NC_021166.1	Ca_Kabuli_Chr07	8513366	TT	CC	CC	DRR	101504640	malate dehydrogenase, chloroplastic
SNP_47759_A_8513369	NC_021166.1	Ca_Kabuli_Chr07	8513369	GG	AA	AA	DRR	101504640	malate dehydrogenase, chloroplastic
SNP_47760_A_8514570	NC_021166.1	Ca_Kabuli_Chr07	8514570	GG	TT	TT	INTERGENIC		
SNP_47762_A_8523663	NC_021166.1	Ca_Kabuli_Chr07	8523663	GG	AA	AA	INTERGENIC		
SNP_47763_A_8523704	NC_021166.1	Ca_Kabuli_Chr07	8523704	TT	CC	CC	INTERGENIC		
SNP_47764_A_8525446	NC_021166.1	Ca_Kabuli_Chr07	8525446	AA	TT	TT	INTERGENIC		
SNP_47765_A_8525506	NC_021166.1	Ca_Kabuli_Chr07	8525506	CC	AA	AA	INTERGENIC		
SNP_47766_A_8526391	NC_021166.1	Ca_Kabuli_Chr07	8526391	AA	TT	TT	URR	101509125	protein RKD1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47767_A_8526463	NC_021166.1	Ca_Kabuli_Chr07	8526463	GG	AA	AA	URR	101509125	protein RKD1
SNP_47768_A_8528306	NC_021166.1	Ca_Kabuli_Chr07	8528306	AA	TT	TT	INTERGENIC		
SNP_47769_A_8529096	NC_021166.1	Ca_Kabuli_Chr07	8529096	AA	GG	GG	DRR	101505269	protein DCL, chloroplastic-like
SNP_47771_A_8529569	NC_021166.1	Ca_Kabuli_Chr07	8529569	AA	GG	GG	DRR	101505269	protein DCL, chloroplastic-like
SNP_47773_A_8532083	NC_021166.1	Ca_Kabuli_Chr07	8532083	GG	AA	AA	URR	101505269	protein DCL, chloroplastic-like
SNP_47774_A_8540019	NC_021166.1	Ca_Kabuli_Chr07	8540019	AA	CC	CC	INTERGENIC		
SNP_47775_A_8557651	NC_021166.1	Ca_Kabuli_Chr07	8557651	CC	TT	TT	INTERGENIC		
SNP_47776_A_8557654	NC_021166.1	Ca_Kabuli_Chr07	8557654	TT	AA	AA	INTERGENIC		
SNP_47777_A_8560588	NC_021166.1	Ca_Kabuli_Chr07	8560588	AA	GG	GG	INTERGENIC		
SNP_47778_A_8574821	NC_021166.1	Ca_Kabuli_Chr07	8574821	TT	CC	CC	NON_SYNONYMOUS_CODING	101510746	putative pentatricopeptide repeat-containing protein At1g74580
SNP_47779_A_8577009	NC_021166.1	Ca_Kabuli_Chr07	8577009	GG	TT	TT	URR	101510746	putative pentatricopeptide repeat-containing protein At1g74580
SNP_47780_A_8583206	NC_021166.1	Ca_Kabuli_Chr07	8583206	GG	TT	TT	INTRON	101511068	activating signal cointegrator 1
SNP_47781_A_8587395	NC_021166.1	Ca_Kabuli_Chr07	8587395	GG	AA	AA	DRR	101511377	NAP1-related protein 2-like
SNP_47782_A_8592074	NC_021166.1	Ca_Kabuli_Chr07	8592074	CC	AA	AA	INTRON	101511377	NAP1-related protein 2-like
SNP_47783_A_8594863	NC_021166.1	Ca_Kabuli_Chr07	8594863	GG	AA	AA	URR	101511377	NAP1-related protein 2-like
SNP_47784_A_8594884	NC_021166.1	Ca_Kabuli_Chr07	8594884	AA	GG	GG	URR	101511377	NAP1-related protein 2-like
SNP_47785_A_8595305	NC_021166.1	Ca_Kabuli_Chr07	8595305	GG	AA	AA	INTERGENIC		
SNP_47787_A_8597419	NC_021166.1	Ca_Kabuli_Chr07	8597419	TT	CC	CC	INTERGENIC		
SNP_47788_A_8600528	NC_021166.1	Ca_Kabuli_Chr07	8600528	TT	AA	AA	INTERGENIC		
SNP_47790_A_8603089	NC_021166.1	Ca_Kabuli_Chr07	8603089	AA	GG	GG	INTERGENIC		
SNP_47791_A_8603392	NC_021166.1	Ca_Kabuli_Chr07	8603392	AA	GG	GG	INTERGENIC		
SNP_47792_A_8603480	NC_021166.1	Ca_Kabuli_Chr07	8603480	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47793_A_8603493	NC_021166.1	Ca_Kabuli_Chr07	8603493	CC	GG	GG	INTERGENIC		
SNP_47794_A_8607066	NC_021166.1	Ca_Kabuli_Chr07	8607066	TT	CC	CC	INTERGENIC		
SNP_47795_A_8613332	NC_021166.1	Ca_Kabuli_Chr07	8613332	GG	AA	AA	DRR	101512124	transcription factor TCP14
SNP_47796_A_8618277	NC_021166.1	Ca_Kabuli_Chr07	8618277	CC	TT	TT	INTERGENIC		
SNP_47797_A_8618286	NC_021166.1	Ca_Kabuli_Chr07	8618286	TT	AA	AA	INTERGENIC		
SNP_47798_A_8618340	NC_021166.1	Ca_Kabuli_Chr07	8618340	CC	TT	TT	INTERGENIC		
SNP_47799_A_8618354	NC_021166.1	Ca_Kabuli_Chr07	8618354	AA	TT	TT	INTERGENIC		
SNP_47801_A_8621174	NC_021166.1	Ca_Kabuli_Chr07	8621174	AA	TT	TT	INTERGENIC		
SNP_47802_A_8621176	NC_021166.1	Ca_Kabuli_Chr07	8621176	TT	AA	AA	INTERGENIC		
SNP_47803_A_8621180	NC_021166.1	Ca_Kabuli_Chr07	8621180	AA	TT	TT	INTERGENIC		
SNP_47804_A_8622373	NC_021166.1	Ca_Kabuli_Chr07	8622373	AA	GG	GG	INTERGENIC		
SNP_47805_A_8622888	NC_021166.1	Ca_Kabuli_Chr07	8622888	GG	TT	TT	INTERGENIC		
SNP_47806_A_8622972	NC_021166.1	Ca_Kabuli_Chr07	8622972	CC	AA	AA	INTERGENIC		
SNP_47807_A_8623056	NC_021166.1	Ca_Kabuli_Chr07	8623056	TT	GG	GG	INTERGENIC		
SNP_47808_A_8623136	NC_021166.1	Ca_Kabuli_Chr07	8623136	CC	AA	AA	INTERGENIC		
SNP_47809_A_8624270	NC_021166.1	Ca_Kabuli_Chr07	8624270	CC	TT	TT	DRR	101512450	transcription factor bHLH47
SNP_47810_A_8624597	NC_021166.1	Ca_Kabuli_Chr07	8624597	AA	GG	GG	DRR	101512450	transcription factor bHLH47
SNP_47811_A_8624606	NC_021166.1	Ca_Kabuli_Chr07	8624606	TT	CC	CC	DRR	101512450	transcription factor bHLH47
SNP_47812_A_8627639	NC_021166.1	Ca_Kabuli_Chr07	8627639	GG	AA	AA	URR	101512450	transcription factor bHLH47
SNP_47813_A_8628199	NC_021166.1	Ca_Kabuli_Chr07	8628199	TT	CC	CC	URR	101512450	transcription factor bHLH47
SNP_47814_A_8628619	NC_021166.1	Ca_Kabuli_Chr07	8628619	AA	TT	TT	URR	101512450	transcription factor bHLH47
SNP_47815_A_8629119	NC_021166.1	Ca_Kabuli_Chr07	8629119	CC	TT	TT	DRR	101512771	HVA22-like protein a

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47816_A_8629147	NC_021166.1	Ca_Kabuli_Chr07	8629147	AA	TT	TT	DRR	101512771	HVA22-like protein a
SNP_47817_A_8629514	NC_021166.1	Ca_Kabuli_Chr07	8629514	GG	AA	AA	DRR	101512771	HVA22-like protein a
SNP_47818_A_8629521	NC_021166.1	Ca_Kabuli_Chr07	8629521	AA	TT	TT	DRR	101512771	HVA22-like protein a
SNP_47819_A_8632936	NC_021166.1	Ca_Kabuli_Chr07	8632936	TT	CC	CC	URR	101512771	HVA22-like protein a
SNP_47821_A_8634809	NC_021166.1	Ca_Kabuli_Chr07	8634809	CC	TT	TT	DRR	101513096	microtubule-associated protein RP/EB family member 1A
SNP_47823_A_8637837	NC_021166.1	Ca_Kabuli_Chr07	8637837	GG	AA	AA	INTRON	101513096	microtubule-associated protein RP/EB family member 1A
SNP_47824_A_8640363	NC_021166.1	Ca_Kabuli_Chr07	8640363	AA	CC	CC	URR	101513096	microtubule-associated protein RP/EB family member 1A
SNP_47825_A_8641095	NC_021166.1	Ca_Kabuli_Chr07	8641095	AA	GG	GG	INTERGENIC		
SNP_47826_A_8646626	NC_021166.1	Ca_Kabuli_Chr07	8646626	TT	CC	CC	DRR	101513421	40S ribosomal protein S9-2-like
SNP_47827_A_8646724	NC_021166.1	Ca_Kabuli_Chr07	8646724	CC	AA	AA	DRR	101513421	40S ribosomal protein S9-2-like
SNP_47828_A_8649674	NC_021166.1	Ca_Kabuli_Chr07	8649674	CC	TT	TT	URR	101513421	40S ribosomal protein S9-2-like
SNP_47829_A_8649678	NC_021166.1	Ca_Kabuli_Chr07	8649678	CC	TT	TT	URR	101513421	40S ribosomal protein S9-2-like
SNP_47830_A_8651506	NC_021166.1	Ca_Kabuli_Chr07	8651506	TT	CC	CC	DRR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47831_A_8652654	NC_021166.1	Ca_Kabuli_Chr07	8652654	TT	GG	GG	INTERGENIC		
SNP_47832_A_8653327	NC_021166.1	Ca_Kabuli_Chr07	8653327	AA	GG	GG	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47833_A_8653587	NC_021166.1	Ca_Kabuli_Chr07	8653587	CC	AA	AA	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47834_A_8653602	NC_021166.1	Ca_Kabuli_Chr07	8653602	CC	TT	TT	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47835_A_8653603	NC_021166.1	Ca_Kabuli_Chr07	8653603	CC	GG	GG	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47836_A_8653659	NC_021166.1	Ca_Kabuli_Chr07	8653659	CC	TT	TT	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47837_A_8653660	NC_021166.1	Ca_Kabuli_Chr07	8653660	TT	CC	CC	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47838_A_8654615	NC_021166.1	Ca_Kabuli_Chr07	8654615	CC	TT	TT	URR	101513734	F-box/kelch-repeat protein At1g74510
SNP_47839_A_8654659	NC_021166.1	Ca_Kabuli_Chr07	8654659	CC	TT	TT	URR	101513734	F-box/kelch-repeat protein At1g74510

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47840_A_8654817	NC_021166.1	Ca_Kabuli_Chr07	8654817	TT	AA	AA	INTERGENIC		
SNP_47841_A_8655844	NC_021166.1	Ca_Kabuli_Chr07	8655844	AA	GG	GG	INTERGENIC		
SNP_47842_A_8659813	NC_021166.1	Ca_Kabuli_Chr07	8659813	CC	TT	TT	INTERGENIC		
SNP_47843_A_8659820	NC_021166.1	Ca_Kabuli_Chr07	8659820	AA	CC	CC	INTERGENIC		
SNP_47844_A_8659838	NC_021166.1	Ca_Kabuli_Chr07	8659838	AA	GG	GG	INTERGENIC		
SNP_47846_A_8662293	NC_021166.1	Ca_Kabuli_Chr07	8662293	GG	TT	TT	URR	101514072	40S ribosomal protein S9-2-like
SNP_47847_A_8662336	NC_021166.1	Ca_Kabuli_Chr07	8662336	GG	CC	CC	URR	101514072	40S ribosomal protein S9-2-like
SNP_47848_A_8662566	NC_021166.1	Ca_Kabuli_Chr07	8662566	TT	AA	AA	URR	101514072	40S ribosomal protein S9-2-like
SNP_47850_A_8663592	NC_021166.1	Ca_Kabuli_Chr07	8663592	CC	TT	TT	DRR	101508171	F-box/kelch-repeat protein SKIP11-like
SNP_47852_A_8667166	NC_021166.1	Ca_Kabuli_Chr07	8667166	AA	GG	GG	INTERGENIC		
SNP_47853_A_8667183	NC_021166.1	Ca_Kabuli_Chr07	8667183	AA	GG	GG	INTERGENIC		
SNP_47854_A_8667193	NC_021166.1	Ca_Kabuli_Chr07	8667193	AA	GG	GG	INTERGENIC		
SNP_47855_A_8669645	NC_021166.1	Ca_Kabuli_Chr07	8669645	GG	AA	AA	INTERGENIC		
SNP_47856_A_8669654	NC_021166.1	Ca_Kabuli_Chr07	8669654	TT	CC	CC	INTERGENIC		
SNP_47858_A_8672907	NC_021166.1	Ca_Kabuli_Chr07	8672907	CC	TT	TT	INTERGENIC		
SNP_47859_A_8672909	NC_021166.1	Ca_Kabuli_Chr07	8672909	GG	AA	AA	INTERGENIC		
SNP_47860_A_8673263	NC_021166.1	Ca_Kabuli_Chr07	8673263	GG	AA	AA	INTERGENIC		
SNP_47862_A_8677340	NC_021166.1	Ca_Kabuli_Chr07	8677340	GG	AA	AA	DRR	101508498	protein kinase 2B, chloroplastic-like
SNP_47864_A_8678429	NC_021166.1	Ca_Kabuli_Chr07	8678429	GG	TT	TT	INTERGENIC		
SNP_47866_A_8683006	NC_021166.1	Ca_Kabuli_Chr07	8683006	GG	TT	TT	INTERGENIC		
SNP_47867_A_8685291	NC_021166.1	Ca_Kabuli_Chr07	8685291	CC	AA	AA	DRR	101514956	ABC transporter A family member 7-like
SNP_47868_A_8687398	NC_021166.1	Ca_Kabuli_Chr07	8687398	GG	CC	CC	INTRON	101514956	ABC transporter A family member 7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47870_A_8710255	NC_021166.1	Ca_Kabuli_Chr07	8710255	GG	AA	AA	INTERGENIC		
SNP_47871_A_8710618	NC_021166.1	Ca_Kabuli_Chr07	8710618	GG	AA	AA	DRR	101489135	uncharacterized LOC101489135
SNP_47872_A_8710667	NC_021166.1	Ca_Kabuli_Chr07	8710667	CC	TT	TT	DRR	101489135	uncharacterized LOC101489135
SNP_47873_A_8710780	NC_021166.1	Ca_Kabuli_Chr07	8710780	CC	TT	TT	DRR	101489135	uncharacterized LOC101489135
SNP_47874_A_8711152	NC_021166.1	Ca_Kabuli_Chr07	8711152	AA	GG	GG	DRR	101489135	uncharacterized LOC101489135
SNP_47875_A_8711450	NC_021166.1	Ca_Kabuli_Chr07	8711450	AA	CC	CC	SYNONYMOUS_CODING	101489135	uncharacterized LOC101489135
SNP_47876_A_8716412	NC_021166.1	Ca_Kabuli_Chr07	8716412	TT	CC	CC	INTERGENIC		
SNP_47877_A_8716652	NC_021166.1	Ca_Kabuli_Chr07	8716652	GG	AA	AA	INTERGENIC		
SNP_47878_A_8716657	NC_021166.1	Ca_Kabuli_Chr07	8716657	TT	CC	CC	INTERGENIC		
SNP_47879_A_8716689	NC_021166.1	Ca_Kabuli_Chr07	8716689	GG	AA	AA	INTERGENIC		
SNP_47880_A_8716731	NC_021166.1	Ca_Kabuli_Chr07	8716731	TT	CC	CC	INTERGENIC		
SNP_47881_A_8722979	NC_021166.1	Ca_Kabuli_Chr07	8722979	AA	GG	GG	DRR	101489784	probable WRKY transcription factor 72
SNP_47882_A_8723297	NC_021166.1	Ca_Kabuli_Chr07	8723297	TT	CC	CC	DRR	101489784	probable WRKY transcription factor 72
SNP_47883_A_8727541	NC_021166.1	Ca_Kabuli_Chr07	8727541	GG	AA	AA	INTRON	101489784	probable WRKY transcription factor 72
SNP_47884_A_8727549	NC_021166.1	Ca_Kabuli_Chr07	8727549	TT	AA	AA	INTRON	101489784	probable WRKY transcription factor 72
SNP_47885_A_8727577	NC_021166.1	Ca_Kabuli_Chr07	8727577	TT	GG	GG	INTRON	101489784	probable WRKY transcription factor 72
SNP_47886_A_8728808	NC_021166.1	Ca_Kabuli_Chr07	8728808	TT	CC	CC	URR	101489784	probable WRKY transcription factor 72
SNP_47887_A_8728828	NC_021166.1	Ca_Kabuli_Chr07	8728828	GG	AA	AA	URR	101489784	probable WRKY transcription factor 72
SNP_47888_A_8730204	NC_021166.1	Ca_Kabuli_Chr07	8730204	TT	GG	GG	INTERGENIC		
SNP_47890_A_8740030	NC_021166.1	Ca_Kabuli_Chr07	8740030	GG	TT	TT	INTRON	101490107	delta-1-pyrroline-5-carboxylate dehydrogenase 12A1, mitochondrial
SNP_47891_A_8750054	NC_021166.1	Ca_Kabuli_Chr07	8750054	GG	TT	TT	INTRON	101508806	YLP motif-containing protein 1
SNP_47892_A_8750094	NC_021166.1	Ca_Kabuli_Chr07	8750094	GG	CC	CC	INTRON	101508806	YLP motif-containing protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47893_A_8750318	NC_021166.1	Ca_Kabuli_Chr07	8750318	TT	GG	GG	INTRON	101508806	YLP motif-containing protein 1
SNP_47894_A_8753104	NC_021166.1	Ca_Kabuli_Chr07	8753104	GG	TT	TT	INTRON	101508806	YLP motif-containing protein 1
SNP_47895_A_8753105	NC_021166.1	Ca_Kabuli_Chr07	8753105	TT	AA	AA	INTRON	101508806	YLP motif-containing protein 1
SNP_47896_A_8758713	NC_021166.1	Ca_Kabuli_Chr07	8758713	CC	AA	AA	DRR	101490432	probable pectate lyase P59
SNP_47899_A_8762308	NC_021166.1	Ca_Kabuli_Chr07	8762308	TT	AA	AA	URR	101490432	probable pectate lyase P59
SNP_47900_A_8762358	NC_021166.1	Ca_Kabuli_Chr07	8762358	CC	GG	GG	URR	101490432	probable pectate lyase P59
SNP_47901_A_8762378	NC_021166.1	Ca_Kabuli_Chr07	8762378	AA	GG	GG	URR	101490432	probable pectate lyase P59
SNP_47902_A_8762705	NC_021166.1	Ca_Kabuli_Chr07	8762705	TT	CC	CC	URR	101490432	probable pectate lyase P59
SNP_47903_A_8762716	NC_021166.1	Ca_Kabuli_Chr07	8762716	GG	AA	AA	URR	101490432	probable pectate lyase P59
SNP_47904_A_8765341	NC_021166.1	Ca_Kabuli_Chr07	8765341	GG	AA	AA	URR	101491080	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_47905_A_8765376	NC_021166.1	Ca_Kabuli_Chr07	8765376	GG	TT	TT	URR	101491080	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_47906_A_8766058	NC_021166.1	Ca_Kabuli_Chr07	8766058	TT	CC	CC	URR	101491080	inactive protein RESTRICTED TEV MOVEMENT 2-like
SNP_47907_A_8773673	NC_021166.1	Ca_Kabuli_Chr07	8773673	CC	TT	TT	URR	101490754	protein QUIRKY
SNP_47908_A_8775170	NC_021166.1	Ca_Kabuli_Chr07	8775170	AA	GG	GG	INTERGENIC		
SNP_47909_A_8782986	NC_021166.1	Ca_Kabuli_Chr07	8782986	GG	TT	TT	DRR	101492027	protein NRT1/ PTR FAMILY 4.6
SNP_47910_A_8783416	NC_021166.1	Ca_Kabuli_Chr07	8783416	CC	GG	GG	NON_SYNONYMOUS_CODING	101492027	protein NRT1/ PTR FAMILY 4.6
SNP_47911_A_8785678	NC_021166.1	Ca_Kabuli_Chr07	8785678	AA	GG	GG	INTRON	101492027	protein NRT1/ PTR FAMILY 4.6
SNP_47912_A_8787435	NC_021166.1	Ca_Kabuli_Chr07	8787435	AA	TT	TT	URR	101492027	protein NRT1/ PTR FAMILY 4.6
SNP_47913_A_8787824	NC_021166.1	Ca_Kabuli_Chr07	8787824	GG	AA	AA	URR	101492027	protein NRT1/ PTR FAMILY 4.6
SNP_47914_A_8789164	NC_021166.1	Ca_Kabuli_Chr07	8789164	TT	GG	GG	INTERGENIC		
SNP_47915_A_8791762	NC_021166.1	Ca_Kabuli_Chr07	8791762	GG	AA	AA	INTERGENIC		
SNP_47917_A_8792419	NC_021166.1	Ca_Kabuli_Chr07	8792419	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47918_A_8793834	NC_021166.1	Ca_Kabuli_Chr07	8793834	TT	CC	CC	DRR	101492365	homeobox-leucine zipper protein ATHB-16-like
SNP_47920_A_8794019	NC_021166.1	Ca_Kabuli_Chr07	8794019	AA	GG	GG	DRR	101492365	homeobox-leucine zipper protein ATHB-16-like
SNP_47921_A_8796694	NC_021166.1	Ca_Kabuli_Chr07	8796694	GG	TT	TT	URR	101492365	homeobox-leucine zipper protein ATHB-16-like
SNP_47922_A_8797945	NC_021166.1	Ca_Kabuli_Chr07	8797945	GG	AA	AA	URR	101492365	homeobox-leucine zipper protein ATHB-16-like
SNP_47923_A_8799217	NC_021166.1	Ca_Kabuli_Chr07	8799217	AA	TT	TT	INTERGENIC		
SNP_47924_A_8799591	NC_021166.1	Ca_Kabuli_Chr07	8799591	CC	AA	AA	INTERGENIC		
SNP_47925_A_8799785	NC_021166.1	Ca_Kabuli_Chr07	8799785	CC	TT	TT	INTERGENIC		
SNP_47926_A_8800395	NC_021166.1	Ca_Kabuli_Chr07	8800395	GG	AA	AA	INTERGENIC		
SNP_47927_A_8800408	NC_021166.1	Ca_Kabuli_Chr07	8800408	CC	TT	TT	INTERGENIC		
SNP_47928_A_8800931	NC_021166.1	Ca_Kabuli_Chr07	8800931	CC	TT	TT	DRR	101492695	uncharacterized LOC101492695
SNP_47929_A_8805990	NC_021166.1	Ca_Kabuli_Chr07	8805990	TT	GG	GG	URR	101492695	uncharacterized LOC101492695
SNP_47930_A_8806223	NC_021166.1	Ca_Kabuli_Chr07	8806223	AA	CC	CC	URR	101492695	uncharacterized LOC101492695
SNP_47931_A_8809324	NC_021166.1	Ca_Kabuli_Chr07	8809324	CC	TT	GG	INTRON	101493032	LRR receptor-like serine/threonine-protein kinase FEI 1
SNP_47932_A_8812902	NC_021166.1	Ca_Kabuli_Chr07	8812902	GG	TT	TT	INTERGENIC		
SNP_47933_A_8812904	NC_021166.1	Ca_Kabuli_Chr07	8812904	GG	CC	CC	INTERGENIC		
SNP_47934_A_8814442	NC_021166.1	Ca_Kabuli_Chr07	8814442	AA	TT	TT	INTRON	101493572	protein NRT1/ PTR FAMILY 2.8
SNP_47935_A_8817972	NC_021166.1	Ca_Kabuli_Chr07	8817972	AA	GG	GG	URR	101493572	protein NRT1/ PTR FAMILY 2.8
SNP_47936_A_8818420	NC_021166.1	Ca_Kabuli_Chr07	8818420	AA	GG	GG	URR	101493572	protein NRT1/ PTR FAMILY 2.8
SNP_47937_A_8818430	NC_021166.1	Ca_Kabuli_Chr07	8818430	TT	CC	CC	URR	101493572	protein NRT1/ PTR FAMILY 2.8
SNP_47938_A_8822178	NC_021166.1	Ca_Kabuli_Chr07	8822178	TT	AA	AA	DRR	101493890	protein NRT1/ PTR FAMILY 2.9-like
SNP_47939_A_8824278	NC_021166.1	Ca_Kabuli_Chr07	8824278	CC	TT	TT	INTRON	101493890	protein NRT1/ PTR FAMILY 2.9-like
SNP_47940_A_8825607	NC_021166.1	Ca_Kabuli_Chr07	8825607	AA	CC	CC	URR	101493890	protein NRT1/ PTR FAMILY 2.9-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47941_A_8826158	NC_021166.1	Ca_Kabuli_Chr07	8826158	AA	GG	GG	URR	101493890	protein NRT1/ PTR FAMILY 2.9-like
SNP_47942_A_8826960	NC_021166.1	Ca_Kabuli_Chr07	8826960	TT	AA	AA	DRR	101494629	protein NRT1/ PTR FAMILY 2.11-like
SNP_47943_A_8826970	NC_021166.1	Ca_Kabuli_Chr07	8826970	GG	AA	AA	DRR	101494629	protein NRT1/ PTR FAMILY 2.11-like
SNP_47944_A_8827031	NC_021166.1	Ca_Kabuli_Chr07	8827031	TT	GG	GG	DRR	101494629	protein NRT1/ PTR FAMILY 2.11-like
SNP_47945_A_8827032	NC_021166.1	Ca_Kabuli_Chr07	8827032	GG	AA	AA	DRR	101494629	protein NRT1/ PTR FAMILY 2.11-like
SNP_47946_A_8835053	NC_021166.1	Ca_Kabuli_Chr07	8835053	GG	CC	CC	INTERGENIC		
SNP_47947_A_8835074	NC_021166.1	Ca_Kabuli_Chr07	8835074	AA	GG	GG	INTERGENIC		
SNP_47948_A_8835783	NC_021166.1	Ca_Kabuli_Chr07	8835783	CC	TT	TT	INTERGENIC		
SNP_47950_A_8839665	NC_021166.1	Ca_Kabuli_Chr07	8839665	TT	GG	GG	URR	101495170	protein NRT1/ PTR FAMILY 2.9-like
SNP_47951_A_8839685	NC_021166.1	Ca_Kabuli_Chr07	8839685	GG	CC	CC	URR	101495170	protein NRT1/ PTR FAMILY 2.9-like
SNP_47953_A_8842123	NC_021166.1	Ca_Kabuli_Chr07	8842123	TT	AA	AA	INTERGENIC		
SNP_47954_A_8856403	NC_021166.1	Ca_Kabuli_Chr07	8856403	TT	CC	CC	INTERGENIC		
SNP_47955_A_8856796	NC_021166.1	Ca_Kabuli_Chr07	8856796	TT	CC	CC	INTERGENIC		
SNP_47956_A_8856814	NC_021166.1	Ca_Kabuli_Chr07	8856814	GG	TT	TT	INTERGENIC		
SNP_47957_A_8856866	NC_021166.1	Ca_Kabuli_Chr07	8856866	TT	CC	CC	INTERGENIC		
SNP_47959_A_8859308	NC_021166.1	Ca_Kabuli_Chr07	8859308	TT	AA	AA	INTERGENIC		
SNP_47960_A_8861879	NC_021166.1	Ca_Kabuli_Chr07	8861879	TT	AA	AA	INTERGENIC		
SNP_47961_A_8861880	NC_021166.1	Ca_Kabuli_Chr07	8861880	AA	CC	CC	INTERGENIC		
SNP_47962_A_8874929	NC_021166.1	Ca_Kabuli_Chr07	8874929	CC	TT	TT	URR	101496261	calcium-dependent protein kinase 10
SNP_47964_A_8875790	NC_021166.1	Ca_Kabuli_Chr07	8875790	CC	TT	TT	INTERGENIC		
SNP_47965_A_8875794	NC_021166.1	Ca_Kabuli_Chr07	8875794	TT	CC	CC	INTERGENIC		
SNP_47966_A_8875798	NC_021166.1	Ca_Kabuli_Chr07	8875798	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47967_A_8878662	NC_021166.1	Ca_Kabuli_Chr07	8878662	GG	TT	TT	INTERGENIC		
SNP_47968_A_8878941	NC_021166.1	Ca_Kabuli_Chr07	8878941	CC	GG	GG	INTERGENIC		
SNP_47969_A_8879712	NC_021166.1	Ca_Kabuli_Chr07	8879712	CC	TT	TT	INTERGENIC		
SNP_47970_A_8885518	NC_021166.1	Ca_Kabuli_Chr07	8885518	GG	AA	AA	INTERGENIC		
SNP_47971_A_8885755	NC_021166.1	Ca_Kabuli_Chr07	8885755	CC	GG	GG	INTERGENIC		
SNP_47972_A_8889404	NC_021166.1	Ca_Kabuli_Chr07	8889404	CC	TT	TT	INTERGENIC		
SNP_47973_A_8889413	NC_021166.1	Ca_Kabuli_Chr07	8889413	GG	AA	AA	INTERGENIC		
SNP_47974_A_8893054	NC_021166.1	Ca_Kabuli_Chr07	8893054	GG	AA	AA	DRR	101496590	uncharacterized LOC101496590
SNP_47975_A_8893059	NC_021166.1	Ca_Kabuli_Chr07	8893059	TT	CC	CC	DRR	101496590	uncharacterized LOC101496590
SNP_47976_A_8898432	NC_021166.1	Ca_Kabuli_Chr07	8898432	TT	CC	CC	INTRON	101496590	uncharacterized LOC101496590
SNP_47977_A_8898458	NC_021166.1	Ca_Kabuli_Chr07	8898458	TT	AA	AA	INTRON	101496590	uncharacterized LOC101496590
SNP_47978_A_8898475	NC_021166.1	Ca_Kabuli_Chr07	8898475	AA	CC	CC	INTRON	101496590	uncharacterized LOC101496590
SNP_47980_A_8898832	NC_021166.1	Ca_Kabuli_Chr07	8898832	AA	GG	GG	INTRON	101496590	uncharacterized LOC101496590
SNP_47981_A_8902051	NC_021166.1	Ca_Kabuli_Chr07	8902051	AA	TT	TT	SYNONYMOUS_CODING	101496590	uncharacterized LOC101496590
SNP_47982_A_8902388	NC_021166.1	Ca_Kabuli_Chr07	8902388	AA	TT	TT	SYNONYMOUS_CODING	101496590	uncharacterized LOC101496590
SNP_47983_A_8906459	NC_021166.1	Ca_Kabuli_Chr07	8906459	AA	GG	GG	URR	101496590	uncharacterized LOC101496590
SNP_47984_A_8906463	NC_021166.1	Ca_Kabuli_Chr07	8906463	CC	AA	AA	URR	101496590	uncharacterized LOC101496590
SNP_47985_A_8907658	NC_021166.1	Ca_Kabuli_Chr07	8907658	CC	TT	TT	DRR	101497462	LOB domain-containing protein 27
SNP_47987_A_8908007	NC_021166.1	Ca_Kabuli_Chr07	8908007	CC	GG	GG	DRR	101497462	LOB domain-containing protein 27
SNP_47988_A_8908034	NC_021166.1	Ca_Kabuli_Chr07	8908034	TT	CC	CC	DRR	101497462	LOB domain-containing protein 27
SNP_47989_A_8910159	NC_021166.1	Ca_Kabuli_Chr07	8910159	GG	AA	AA	INTERGENIC		
SNP_47990_A_8913092	NC_021166.1	Ca_Kabuli_Chr07	8913092	CC	GG	GG	URR	101497462	LOB domain-containing protein 27

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_47991_A_8922630	NC_021166.1	Ca_Kabuli_Chr07	8922630	CC	TT	TT	URR	101497125	uncharacterized LOC101497125
SNP_47992_A_8922828	NC_021166.1	Ca_Kabuli_Chr07	8922828	AA	TT	TT	URR	101497125	uncharacterized LOC101497125
SNP_47993_A_8926883	NC_021166.1	Ca_Kabuli_Chr07	8926883	TT	CC	CC	INTERGENIC		
SNP_47994_A_8927773	NC_021166.1	Ca_Kabuli_Chr07	8927773	TT	AA	AA	INTERGENIC		
SNP_47995_A_8927951	NC_021166.1	Ca_Kabuli_Chr07	8927951	GG	AA	AA	INTERGENIC		
SNP_47996_A_8931993	NC_021166.1	Ca_Kabuli_Chr07	8931993	TT	CC	CC	INTRON	101497894	basic proline-rich protein
SNP_47997_A_8932225	NC_021166.1	Ca_Kabuli_Chr07	8932225	TT	AA	AA	INTRON	101497894	basic proline-rich protein
SNP_47998_A_8932695	NC_021166.1	Ca_Kabuli_Chr07	8932695	GG	TT	TT	INTRON	101497894	basic proline-rich protein
SNP_47999_A_8932706	NC_021166.1	Ca_Kabuli_Chr07	8932706	TT	AA	AA	INTRON	101497894	basic proline-rich protein
SNP_48000_A_8944823	NC_021166.1	Ca_Kabuli_Chr07	8944823	AA	GG	GG	INTERGENIC		
SNP_48001_A_8946055	NC_021166.1	Ca_Kabuli_Chr07	8946055	TT	CC	CC	INTERGENIC		
SNP_48002_A_8946265	NC_021166.1	Ca_Kabuli_Chr07	8946265	CC	TT	TT	INTERGENIC		
SNP_48003_A_8948666	NC_021166.1	Ca_Kabuli_Chr07	8948666	CC	TT	TT	URR	101498215	HIPL1 protein-like
SNP_48004_A_8949327	NC_021166.1	Ca_Kabuli_Chr07	8949327	TT	GG	GG	URR	101498215	HIPL1 protein-like
SNP_48005_A_8951428	NC_021166.1	Ca_Kabuli_Chr07	8951428	TT	CC	CC	DRR	101499113	MATH and LRR domain-containing protein PFE0570w
SNP_48006_A_8952984	NC_021166.1	Ca_Kabuli_Chr07	8952984	GG	TT	TT	INTERGENIC		
SNP_48007_A_8955836	NC_021166.1	Ca_Kabuli_Chr07	8955836	AA	CC	CC	INTERGENIC		
SNP_48009_A_8963931	NC_021166.1	Ca_Kabuli_Chr07	8963931	CC	TT	TT	URR	101498790	probable mitochondrial chaperone BCS1-B
SNP_48010_A_8964365	NC_021166.1	Ca_Kabuli_Chr07	8964365	AA	GG	GG	URR	101498790	probable mitochondrial chaperone BCS1-B
SNP_48011_A_8965756	NC_021166.1	Ca_Kabuli_Chr07	8965756	TT	CC	CC	INTERGENIC		
SNP_48012_A_8965956	NC_021166.1	Ca_Kabuli_Chr07	8965956	AA	TT	TT	INTERGENIC		
SNP_48013_A_8965988	NC_021166.1	Ca_Kabuli_Chr07	8965988	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48015_A_8968019	NC_021166.1	Ca_Kabuli_Chr07	8968019	AA	GG	GG	INTERGENIC		
SNP_48016_A_8968031	NC_021166.1	Ca_Kabuli_Chr07	8968031	AA	GG	GG	INTERGENIC		
SNP_48017_A_8968081	NC_021166.1	Ca_Kabuli_Chr07	8968081	TT	CC	CC	DRR	101499432	probable beta-1,3-galactosyltransferase 19
SNP_48018_A_8968112	NC_021166.1	Ca_Kabuli_Chr07	8968112	AA	GG	GG	DRR	101499432	probable beta-1,3-galactosyltransferase 19
SNP_48019_A_8968209	NC_021166.1	Ca_Kabuli_Chr07	8968209	GG	AA	AA	DRR	101499432	probable beta-1,3-galactosyltransferase 19
SNP_48020_A_8968214	NC_021166.1	Ca_Kabuli_Chr07	8968214	TT	AA	AA	DRR	101499432	probable beta-1,3-galactosyltransferase 19
SNP_48021_A_8970707	NC_021166.1	Ca_Kabuli_Chr07	8970707	GG	AA	AA	SYNONYMOUS_CODING	101499432	probable beta-1,3-galactosyltransferase 19
SNP_48023_A_8974713	NC_021166.1	Ca_Kabuli_Chr07	8974713	CC	GG	GG	INTERGENIC		
SNP_48025_A_8975073	NC_021166.1	Ca_Kabuli_Chr07	8975073	CC	TT	TT	INTERGENIC		
SNP_48026_A_8975098	NC_021166.1	Ca_Kabuli_Chr07	8975098	GG	AA	AA	INTERGENIC		
SNP_48027_A_8975302	NC_021166.1	Ca_Kabuli_Chr07	8975302	GG	CC	CC	INTERGENIC		
SNP_48028_A_8976484	NC_021166.1	Ca_Kabuli_Chr07	8976484	AA	GG	GG	DRR	101499740	uncharacterized LOC101499740
SNP_48029_A_8978728	NC_021166.1	Ca_Kabuli_Chr07	8978728	TT	CC	CC	INTRON	101499740	uncharacterized LOC101499740
SNP_48030_A_8979523	NC_021166.1	Ca_Kabuli_Chr07	8979523	GG	AA	AA	DRR	101499740	uncharacterized LOC101499740
SNP_48031_A_8979544	NC_021166.1	Ca_Kabuli_Chr07	8979544	GG	TT	TT	DRR	101499740	uncharacterized LOC101499740
SNP_48032_A_8981454	NC_021166.1	Ca_Kabuli_Chr07	8981454	CC	TT	TT	URR	101499740	uncharacterized LOC101499740
SNP_48033_A_8983513	NC_021166.1	Ca_Kabuli_Chr07	8983513	GG	TT	TT	INTERGENIC		
SNP_48034_A_8983843	NC_021166.1	Ca_Kabuli_Chr07	8983843	AA	GG	GG	INTERGENIC		
SNP_48035_A_8983859	NC_021166.1	Ca_Kabuli_Chr07	8983859	TT	CC	CC	INTERGENIC		
SNP_48036_A_8984263	NC_021166.1	Ca_Kabuli_Chr07	8984263	GG	TT	TT	INTERGENIC		
SNP_48037_A_8984273	NC_021166.1	Ca_Kabuli_Chr07	8984273	AA	TT	TT	INTERGENIC		
SNP_48038_A_8988094	NC_021166.1	Ca_Kabuli_Chr07	8988094	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48039_A_8988134	NC_021166.1	Ca_Kabuli_Chr07	8988134	AA	GG	GG	INTERGENIC		
SNP_48040_A_8988137	NC_021166.1	Ca_Kabuli_Chr07	8988137	TT	CC	CC	INTERGENIC		
SNP_48041_A_8989943	NC_021166.1	Ca_Kabuli_Chr07	8989943	TT	CC	CC	INTERGENIC		
SNP_48042_A_8990596	NC_021166.1	Ca_Kabuli_Chr07	8990596	AA	TT	TT	INTERGENIC		
SNP_48043_A_8990624	NC_021166.1	Ca_Kabuli_Chr07	8990624	GG	AA	AA	INTERGENIC		
SNP_48044_A_8991081	NC_021166.1	Ca_Kabuli_Chr07	8991081	TT	CC	CC	INTERGENIC		
SNP_48045_A_8994052	NC_021166.1	Ca_Kabuli_Chr07	8994052	TT	CC	CC	INTERGENIC		
SNP_48046_A_8994333	NC_021166.1	Ca_Kabuli_Chr07	8994333	AA	GG	GG	INTERGENIC		
SNP_48048_A_8997385	NC_021166.1	Ca_Kabuli_Chr07	8997385	AA	GG	GG	NON_SYNONYMOUS_CODING	101500049	transcription factor bHLH79
SNP_48049_A_8997390	NC_021166.1	Ca_Kabuli_Chr07	8997390	AA	GG	GG	NON_SYNONYMOUS_CODING	101500049	transcription factor bHLH79
SNP_48050_A_8998123	NC_021166.1	Ca_Kabuli_Chr07	8998123	CC	TT	TT	INTRON	101500049	transcription factor bHLH79
SNP_48051_A_8998558	NC_021166.1	Ca_Kabuli_Chr07	8998558	CC	TT	TT	INTRON	101500049	transcription factor bHLH79
SNP_48052_A_9009843	NC_021166.1	Ca_Kabuli_Chr07	9009843	TT	CC	CC	INTERGENIC		
SNP_48053_A_9012098	NC_021166.1	Ca_Kabuli_Chr07	9012098	GG	CC	CC	INTERGENIC		
SNP_48054_A_9014263	NC_021166.1	Ca_Kabuli_Chr07	9014263	AA	GG	GG	DRR	101500897	transportin-3
SNP_48055_A_9015537	NC_021166.1	Ca_Kabuli_Chr07	9015537	GG	AA	AA	INTRON	101500897	transportin-3
SNP_48057_A_9021131	NC_021166.1	Ca_Kabuli_Chr07	9021131	AA	GG	GG	INTRON	101500897	transportin-3
SNP_48058_A_9022508	NC_021166.1	Ca_Kabuli_Chr07	9022508	TT	CC	CC	INTRON	101500897	transportin-3
SNP_48059_A_9022546	NC_021166.1	Ca_Kabuli_Chr07	9022546	GG	AA	AA	INTRON	101500897	transportin-3
SNP_48061_A_9024212	NC_021166.1	Ca_Kabuli_Chr07	9024212	CC	TT	TT	INTRON	101500897	transportin-3
SNP_48062_A_9026774	NC_021166.1	Ca_Kabuli_Chr07	9026774	AA	GG	GG	INTRON	101500897	transportin-3
SNP_48063_A_9030071	NC_021166.1	Ca_Kabuli_Chr07	9030071	GG	AA	AA	DRR	101501226	tubby-like F-box protein 5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48065_A_9030289	NC_021166.1	Ca_Kabuli_Chr07	9030289	AA	GG	GG	DRR	101501226	tubby-like F-box protein 5
SNP_48066_A_9030291	NC_021166.1	Ca_Kabuli_Chr07	9030291	TT	CC	CC	DRR	101501226	tubby-like F-box protein 5
SNP_48067_A_9030316	NC_021166.1	Ca_Kabuli_Chr07	9030316	GG	CC	CC	DRR	101501226	tubby-like F-box protein 5
SNP_48068_A_9030322	NC_021166.1	Ca_Kabuli_Chr07	9030322	AA	TT	TT	DRR	101501226	tubby-like F-box protein 5
SNP_48069_A_9030581	NC_021166.1	Ca_Kabuli_Chr07	9030581	AA	GG	GG	DRR	101501226	tubby-like F-box protein 5
SNP_48073_A_9037355	NC_021166.1	Ca_Kabuli_Chr07	9037355	GG	AA	AA	INTERGENIC		
SNP_48075_A_9037426	NC_021166.1	Ca_Kabuli_Chr07	9037426	TT	GG	GG	INTERGENIC		
SNP_48076_A_9037782	NC_021166.1	Ca_Kabuli_Chr07	9037782	CC	TT	TT	URR	101501952	serine/threonine-protein kinase AtPK2/AtPK19-like
SNP_48077_A_9037805	NC_021166.1	Ca_Kabuli_Chr07	9037805	AA	CC	CC	URR	101501952	serine/threonine-protein kinase AtPK2/AtPK19-like
SNP_48078_A_9043292	NC_021166.1	Ca_Kabuli_Chr07	9043292	CC	TT	TT	INTERGENIC		
SNP_48079_A_9043328	NC_021166.1	Ca_Kabuli_Chr07	9043328	CC	TT	TT	INTERGENIC		
SNP_48080_A_9043630	NC_021166.1	Ca_Kabuli_Chr07	9043630	GG	AA	AA	INTERGENIC		
SNP_48081_A_9043664	NC_021166.1	Ca_Kabuli_Chr07	9043664	TT	CC	CC	INTERGENIC		
SNP_48083_A_9045933	NC_021166.1	Ca_Kabuli_Chr07	9045933	TT	CC	CC	INTERGENIC		
SNP_48084_A_9045939	NC_021166.1	Ca_Kabuli_Chr07	9045939	CC	GG	GG	INTERGENIC		
SNP_48085_A_9046094	NC_021166.1	Ca_Kabuli_Chr07	9046094	CC	AA	AA	INTERGENIC		
SNP_48086_A_9046462	NC_021166.1	Ca_Kabuli_Chr07	9046462	TT	GG	GG	INTERGENIC		
SNP_48087_A_9046776	NC_021166.1	Ca_Kabuli_Chr07	9046776	CC	TT	TT	INTERGENIC		
SNP_48088_A_9046780	NC_021166.1	Ca_Kabuli_Chr07	9046780	TT	CC	CC	INTERGENIC		
SNP_48089_A_9046791	NC_021166.1	Ca_Kabuli_Chr07	9046791	CC	GG	GG	INTERGENIC		
SNP_48090_A_9047129	NC_021166.1	Ca_Kabuli_Chr07	9047129	TT	CC	CC	INTERGENIC		
SNP_48091_A_9050802	NC_021166.1	Ca_Kabuli_Chr07	9050802	TT	CC	CC	URR	101502286	transcription factor MYB1R1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48092_A_9050860	NC_021166.1	Ca_Kabuli_Chr07	9050860	AA	TT	TT	URR	101502286	transcription factor MYB1R1
SNP_48094_A_9051640	NC_021166.1	Ca_Kabuli_Chr07	9051640	GG	TT	TT	URR	101502286	transcription factor MYB1R1
SNP_48095_A_9051657	NC_021166.1	Ca_Kabuli_Chr07	9051657	CC	TT	TT	URR	101502286	transcription factor MYB1R1
SNP_48096_A_9052635	NC_021166.1	Ca_Kabuli_Chr07	9052635	AA	GG	GG	INTERGENIC		
SNP_48097_A_9052690	NC_021166.1	Ca_Kabuli_Chr07	9052690	CC	AA	AA	INTERGENIC		
SNP_48098_A_9052774	NC_021166.1	Ca_Kabuli_Chr07	9052774	TT	CC	CC	INTERGENIC		
SNP_48099_A_9052776	NC_021166.1	Ca_Kabuli_Chr07	9052776	CC	AA	AA	INTERGENIC		
SNP_48100_A_9052907	NC_021166.1	Ca_Kabuli_Chr07	9052907	AA	GG	GG	INTERGENIC		
SNP_48101_A_9057401	NC_021166.1	Ca_Kabuli_Chr07	9057401	TT	GG	GG	INTERGENIC		
SNP_48102_A_9057496	NC_021166.1	Ca_Kabuli_Chr07	9057496	CC	TT	TT	INTERGENIC		
SNP_48103_A_9057554	NC_021166.1	Ca_Kabuli_Chr07	9057554	GG	AA	AA	INTERGENIC		
SNP_48104_A_9057919	NC_021166.1	Ca_Kabuli_Chr07	9057919	TT	GG	GG	INTERGENIC		
SNP_48105_A_9057962	NC_021166.1	Ca_Kabuli_Chr07	9057962	CC	TT	TT	INTERGENIC		
SNP_48106_A_9059767	NC_021166.1	Ca_Kabuli_Chr07	9059767	TT	AA	AA	INTERGENIC		
SNP_48107_A_9060024	NC_021166.1	Ca_Kabuli_Chr07	9060024	GG	AA	AA	INTERGENIC		
SNP_48108_A_9063289	NC_021166.1	Ca_Kabuli_Chr07	9063289	AA	CC	CC	INTERGENIC		
SNP_48109_A_9063526	NC_021166.1	Ca_Kabuli_Chr07	9063526	TT	CC	CC	INTERGENIC		
SNP_48110_A_9063542	NC_021166.1	Ca_Kabuli_Chr07	9063542	TT	CC	CC	INTERGENIC		
SNP_48111_A_9063585	NC_021166.1	Ca_Kabuli_Chr07	9063585	CC	TT	TT	INTERGENIC		
SNP_48112_A_9063598	NC_021166.1	Ca_Kabuli_Chr07	9063598	CC	TT	TT	INTERGENIC		
SNP_48113_A_9063648	NC_021166.1	Ca_Kabuli_Chr07	9063648	TT	AA	AA	INTERGENIC		
SNP_48114_A_9064471	NC_021166.1	Ca_Kabuli_Chr07	9064471	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48115_A_9064791	NC_021166.1	Ca_Kabuli_Chr07	9064791	TT	AA	AA	INTERGENIC		
SNP_48117_A_9065069	NC_021166.1	Ca_Kabuli_Chr07	9065069	GG	CC	CC	INTERGENIC		
SNP_48118_A_9066014	NC_021166.1	Ca_Kabuli_Chr07	9066014	AA	GG	GG	DRR	101502599	pentatricopeptide repeat-containing protein At1g74850, chloroplastic
SNP_48119_A_9072426	NC_021166.1	Ca_Kabuli_Chr07	9072426	AA	GG	GG	URR	101502599	pentatricopeptide repeat-containing protein At1g74850, chloroplastic
SNP_48120_A_9073390	NC_021166.1	Ca_Kabuli_Chr07	9073390	AA	GG	GG	INTERGENIC		
SNP_48121_A_9073702	NC_021166.1	Ca_Kabuli_Chr07	9073702	TT	AA	AA	INTERGENIC		
SNP_48122_A_9073708	NC_021166.1	Ca_Kabuli_Chr07	9073708	AA	GG	GG	INTERGENIC		
SNP_48124_A_9075351	NC_021166.1	Ca_Kabuli_Chr07	9075351	CC	TT	TT	INTERGENIC		
SNP_48125_A_9076284	NC_021166.1	Ca_Kabuli_Chr07	9076284	GG	AA	AA	DRR	101502916	uncharacterized LOC101502916
SNP_48126_A_9076324	NC_021166.1	Ca_Kabuli_Chr07	9076324	GG	CC	CC	DRR	101502916	uncharacterized LOC101502916
SNP_48127_A_9077415	NC_021166.1	Ca_Kabuli_Chr07	9077415	TT	GG	GG	INTRON	101502916	uncharacterized LOC101502916
SNP_48128_A_9080694	NC_021166.1	Ca_Kabuli_Chr07	9080694	CC	TT	TT	INTERGENIC		
SNP_48129_A_9082739	NC_021166.1	Ca_Kabuli_Chr07	9082739	GG	AA	AA	DRR	101509127	uncharacterized LOC101509127
SNP_48130_A_9084705	NC_021166.1	Ca_Kabuli_Chr07	9084705	GG	CC	CC	URR	101509127	uncharacterized LOC101509127
SNP_48132_A_9089133	NC_021166.1	Ca_Kabuli_Chr07	9089133	GG	TT	TT	INTERGENIC		
SNP_48133_A_9092809	NC_021166.1	Ca_Kabuli_Chr07	9092809	TT	GG	GG	INTERGENIC		
SNP_48134_A_9094586	NC_021166.1	Ca_Kabuli_Chr07	9094586	TT	AA	AA	URR	101503665	Unknown function
SNP_48135_A_9097045	NC_021166.1	Ca_Kabuli_Chr07	9097045	AA	TT	TT	DRR	101503994	microtubule-associated protein TORTIFOLIA1
SNP_48136_A_9097697	NC_021166.1	Ca_Kabuli_Chr07	9097697	TT	CC	CC	INTERGENIC		
SNP_48137_A_9101777	NC_021166.1	Ca_Kabuli_Chr07	9101777	TT	CC	CC	URR	101503994	microtubule-associated protein TORTIFOLIA1
SNP_48139_A_9103113	NC_021166.1	Ca_Kabuli_Chr07	9103113	TT	CC	CC	INTERGENIC		
SNP_48140_A_9103121	NC_021166.1	Ca_Kabuli_Chr07	9103121	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48141_A_9103157	NC_021166.1	Ca_Kabuli_Chr07	9103157	AA	GG	GG	INTERGENIC		
SNP_48142_A_9103180	NC_021166.1	Ca_Kabuli_Chr07	9103180	CC	TT	TT	INTERGENIC		
SNP_48143_A_9103362	NC_021166.1	Ca_Kabuli_Chr07	9103362	CC	TT	TT	INTERGENIC		
SNP_48144_A_9103864	NC_021166.1	Ca_Kabuli_Chr07	9103864	AA	TT	TT	INTERGENIC		
SNP_48146_A_9109135	NC_021166.1	Ca_Kabuli_Chr07	9109135	AA	CC	CC	INTERGENIC		
SNP_48147_A_9109281	NC_021166.1	Ca_Kabuli_Chr07	9109281	TT	CC	CC	INTERGENIC		
SNP_48148_A_9109309	NC_021166.1	Ca_Kabuli_Chr07	9109309	TT	CC	CC	INTERGENIC		
SNP_48149_A_9120257	NC_021166.1	Ca_Kabuli_Chr07	9120257	AA	CC	CC	INTERGENIC		
SNP_48150_A_9120844	NC_021166.1	Ca_Kabuli_Chr07	9120844	GG	AA	AA	INTERGENIC		
SNP_48151_A_9128812	NC_021166.1	Ca_Kabuli_Chr07	9128812	TT	CC	CC	DRR	101504314	two-component response regulator ARR5-like
SNP_48152_A_9128821	NC_021166.1	Ca_Kabuli_Chr07	9128821	GG	AA	AA	DRR	101504314	two-component response regulator ARR5-like
SNP_48153_A_9129152	NC_021166.1	Ca_Kabuli_Chr07	9129152	AA	GG	GG	DRR	101504314	two-component response regulator ARR5-like
SNP_48156_A_9138439	NC_021166.1	Ca_Kabuli_Chr07	9138439	GG	AA	AA	DRR	101505059	serine/Arginine-related protein 53
SNP_48157_A_9144081	NC_021166.1	Ca_Kabuli_Chr07	9144081	GG	AA	AA	INTERGENIC		
SNP_48158_A_9144370	NC_021166.1	Ca_Kabuli_Chr07	9144370	GG	TT	TT	INTERGENIC		
SNP_48159_A_9149035	NC_021166.1	Ca_Kabuli_Chr07	9149035	GG	AA	AA	URR	101505596	E2F transcription factor-like E2FE
SNP_48160_A_9149243	NC_021166.1	Ca_Kabuli_Chr07	9149243	CC	GG	GG	URR	101505596	E2F transcription factor-like E2FE
SNP_48161_A_9149366	NC_021166.1	Ca_Kabuli_Chr07	9149366	CC	GG	GG	URR	101505596	E2F transcription factor-like E2FE
SNP_48162_A_9149430	NC_021166.1	Ca_Kabuli_Chr07	9149430	CC	TT	TT	URR	101505596	E2F transcription factor-like E2FE
SNP_48163_A_9154838	NC_021166.1	Ca_Kabuli_Chr07	9154838	TT	CC	CC	INTERGENIC		
SNP_48164_A_9155295	NC_021166.1	Ca_Kabuli_Chr07	9155295	GG	TT	TT	URR	101506136	betaine aldehyde dehydrogenase 1, chloroplastic
SNP_48165_A_9155685	NC_021166.1	Ca_Kabuli_Chr07	9155685	AA	GG	GG	DRR	101506467	uncharacterized LOC101506467

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48166_A_9160910	NC_021166.1	Ca_Kabuli_Chr07	9160910	TT	AA	AA	INTERGENIC		
SNP_48167_A_9161001	NC_021166.1	Ca_Kabuli_Chr07	9161001	GG	AA	AA	INTERGENIC		
SNP_48168_A_9165174	NC_021166.1	Ca_Kabuli_Chr07	9165174	TT	GG	GG	DRR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48169_A_9165197	NC_021166.1	Ca_Kabuli_Chr07	9165197	CC	AA	AA	DRR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48170_A_9165257	NC_021166.1	Ca_Kabuli_Chr07	9165257	GG	AA	AA	DRR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48171_A_9165383	NC_021166.1	Ca_Kabuli_Chr07	9165383	AA	TT	TT	DRR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48172_A_9165388	NC_021166.1	Ca_Kabuli_Chr07	9165388	TT	CC	CC	DRR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48173_A_9168955	NC_021166.1	Ca_Kabuli_Chr07	9168955	GG	AA	AA	URR	101506794	probable E3 ubiquitin ligase complex SCF subunit sconB
SNP_48174_A_9180688	NC_021166.1	Ca_Kabuli_Chr07	9180688	TT	CC	CC	SYNONYMOUS_CODING	101509451	separase-like
SNP_48175_A_9180839	NC_021166.1	Ca_Kabuli_Chr07	9180839	GG	AA	AA	NON_SYNONYMOUS_CODING	101509451	separase-like
SNP_48178_A_9181428	NC_021166.1	Ca_Kabuli_Chr07	9181428	GG	TT	TT	INTRON	101509451	separase-like
SNP_48179_A_9181566	NC_021166.1	Ca_Kabuli_Chr07	9181566	CC	TT	TT	SYNONYMOUS_CODING	101509451	separase-like
SNP_48180_A_9181704	NC_021166.1	Ca_Kabuli_Chr07	9181704	GG	AA	AA	NON_SYNONYMOUS_CODING	101509451	separase-like
SNP_48182_A_9181880	NC_021166.1	Ca_Kabuli_Chr07	9181880	AA	TT	TT	INTRON	101509451	separase-like
SNP_48183_A_9182505	NC_021166.1	Ca_Kabuli_Chr07	9182505	GG	CC	CC	INTERGENIC		
SNP_48184_A_9182567	NC_021166.1	Ca_Kabuli_Chr07	9182567	GG	TT	TT	INTERGENIC		
SNP_48185_A_9182881	NC_021166.1	Ca_Kabuli_Chr07	9182881	AA	GG	GG	INTERGENIC		
SNP_48186_A_9182913	NC_021166.1	Ca_Kabuli_Chr07	9182913	GG	AA	AA	INTERGENIC		
SNP_48187_A_9183160	NC_021166.1	Ca_Kabuli_Chr07	9183160	AA	GG	GG	INTERGENIC		
SNP_48188_A_9183167	NC_021166.1	Ca_Kabuli_Chr07	9183167	TT	GG	GG	INTERGENIC		
SNP_48190_A_9203466	NC_021166.1	Ca_Kabuli_Chr07	9203466	TT	GG	GG	INTERGENIC		
SNP_48192_A_9211810	NC_021166.1	Ca_Kabuli_Chr07	9211810	CC	AA	AA	INTERGENIC		

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SNP_48193_A_9211832	NC_021166.1	Ca_Kabuli_Chr07	9211832	TT	CC	CC	INTERGENIC		
SNP_48194_A_9212023	NC_021166.1	Ca_Kabuli_Chr07	9212023	CC	TT	TT	INTERGENIC		
SNP_48195_A_9212293	NC_021166.1	Ca_Kabuli_Chr07	9212293	GG	AA	AA	INTERGENIC		
SNP_48196_A_9212566	NC_021166.1	Ca_Kabuli_Chr07	9212566	AA	TT	TT	INTERGENIC		
SNP_48197_A_9216158	NC_021166.1	Ca_Kabuli_Chr07	9216158	GG	AA	AA	NON_SYNONYMOUS_CODING	101503009	metal tolerance protein 4-like
SNP_48198_A_9217376	NC_021166.1	Ca_Kabuli_Chr07	9217376	CC	TT	TT	INTRON	101503009	metal tolerance protein 4-like
SNP_48199_A_9217660	NC_021166.1	Ca_Kabuli_Chr07	9217660	CC	TT	TT	INTRON	101503009	metal tolerance protein 4-like
SNP_48200_A_9218615	NC_021166.1	Ca_Kabuli_Chr07	9218615	CC	TT	TT	URR	101503009	metal tolerance protein 4-like
SNP_48201_A_9219059	NC_021166.1	Ca_Kabuli_Chr07	9219059	GG	AA	AA	URR	101503009	metal tolerance protein 4-like
SNP_48202_A_9219240	NC_021166.1	Ca_Kabuli_Chr07	9219240	CC	TT	TT	URR	101503009	metal tolerance protein 4-like
SNP_48203_A_9219241	NC_021166.1	Ca_Kabuli_Chr07	9219241	CC	TT	TT	URR	101503009	metal tolerance protein 4-like
SNP_48204_A_9219357	NC_021166.1	Ca_Kabuli_Chr07	9219357	CC	AA	AA	URR	101503009	metal tolerance protein 4-like
SNP_48205_A_9224542	NC_021166.1	Ca_Kabuli_Chr07	9224542	CC	TT	TT	INTERGENIC		
SNP_48206_A_9225118	NC_021166.1	Ca_Kabuli_Chr07	9225118	CC	GG	GG	INTERGENIC		
SNP_48207_A_9228351	NC_021166.1	Ca_Kabuli_Chr07	9228351	GG	AA	AA	INTRON	101510193	uncharacterized LOC101510193
SNP_48208_A_9228739	NC_021166.1	Ca_Kabuli_Chr07	9228739	TT	CC	CC	INTRON	101510193	uncharacterized LOC101510193
SNP_48209_A_9232147	NC_021166.1	Ca_Kabuli_Chr07	9232147	AA	GG	GG	URR	101510193	uncharacterized LOC101510193
SNP_48211_A_9255116	NC_021166.1	Ca_Kabuli_Chr07	9255116	GG	CC	CC	INTERGENIC		
SNP_48212_A_9255117	NC_021166.1	Ca_Kabuli_Chr07	9255117	TT	AA	AA	INTERGENIC		
SNP_48214_A_9259389	NC_021166.1	Ca_Kabuli_Chr07	9259389	GG	AA	AA	INTRON	101504315	uncharacterized LOC101504315
SNP_48215_A_9259507	NC_021166.1	Ca_Kabuli_Chr07	9259507	AA	GG	GG	INTRON	101504315	uncharacterized LOC101504315
SNP_48217_A_9260498	NC_021166.1	Ca_Kabuli_Chr07	9260498	CC	TT	TT	INTRON	101504315	uncharacterized LOC101504315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48219_A_9269785	NC_021166.1	Ca_Kabuli_Chr07	9269785	CC	AA	AA	INTRON	101504643	tRNA (cytosine(34)-C(5))-methyltransferase-like
SNP_48220_A_9269959	NC_021166.1	Ca_Kabuli_Chr07	9269959	GG	TT	TT	INTRON	101504643	tRNA (cytosine(34)-C(5))-methyltransferase-like
SNP_48222_A_9277876	NC_021166.1	Ca_Kabuli_Chr07	9277876	TT	CC	CC	URR	101504643	tRNA (cytosine(34)-C(5))-methyltransferase-like
SNP_48223_A_9295204	NC_021166.1	Ca_Kabuli_Chr07	9295204	GG	CC	CC	INTRON	101510850	uncharacterized LOC101510850
SNP_48224_A_9296980	NC_021166.1	Ca_Kabuli_Chr07	9296980	TT	CC	CC	INTRON	101510850	uncharacterized LOC101510850
SNP_48225_A_9304017	NC_021166.1	Ca_Kabuli_Chr07	9304017	AA	GG	GG	URR	101510850	uncharacterized LOC101510850
SNP_48226_A_9304127	NC_021166.1	Ca_Kabuli_Chr07	9304127	TT	CC	CC	URR	101510850	uncharacterized LOC101510850
SNP_48227_A_9305310	NC_021166.1	Ca_Kabuli_Chr07	9305310	TT	CC	CC	DRR	101511814	uncharacterized LOC101511814
SNP_48228_A_9305331	NC_021166.1	Ca_Kabuli_Chr07	9305331	GG	AA	AA	DRR	101511814	uncharacterized LOC101511814
SNP_48229_A_9305591	NC_021166.1	Ca_Kabuli_Chr07	9305591	TT	CC	CC	DRR	101511814	uncharacterized LOC101511814
SNP_48230_A_9306527	NC_021166.1	Ca_Kabuli_Chr07	9306527	TT	CC	CC	INTERGENIC		
SNP_48231_A_9306868	NC_021166.1	Ca_Kabuli_Chr07	9306868	AA	CC	CC	URR	101511814	uncharacterized LOC101511814
SNP_48232_A_9306883	NC_021166.1	Ca_Kabuli_Chr07	9306883	CC	TT	TT	URR	101511814	uncharacterized LOC101511814
SNP_48233_A_9307182	NC_021166.1	Ca_Kabuli_Chr07	9307182	GG	AA	AA	URR	101511814	uncharacterized LOC101511814
SNP_48234_A_9312577	NC_021166.1	Ca_Kabuli_Chr07	9312577	TT	AA	AA	URR	101512126	putative DNA glycosylase At3g47830
SNP_48236_A_9312849	NC_021166.1	Ca_Kabuli_Chr07	9312849	TT	CC	CC	URR	101512126	putative DNA glycosylase At3g47830
SNP_48237_A_9322226	NC_021166.1	Ca_Kabuli_Chr07	9322226	AA	GG	GG	INTRON	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_48238_A_9330650	NC_021166.1	Ca_Kabuli_Chr07	9330650	AA	GG	GG	NON_SYNONYMOUS_CODING	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_48239_A_9330660	NC_021166.1	Ca_Kabuli_Chr07	9330660	GG	AA	AA	SYNONYMOUS_CODING	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_48240_A_9330669	NC_021166.1	Ca_Kabuli_Chr07	9330669	GG	AA	AA	SYNONYMOUS_CODING	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_48241_A_9330681	NC_021166.1	Ca_Kabuli_Chr07	9330681	GG	AA	AA	SYNONYMOUS_CODING	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like
SNP_48242_A_9331470	NC_021166.1	Ca_Kabuli_Chr07	9331470	CC	TT	TT	URR	101505271	glyoxylate/succinic semialdehyde reductase 2, chloroplast-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48243_A_9333488	NC_021166.1	Ca_Kabuli_Chr07	9333488	GG	CC	CC	INTERGENIC		
SNP_48244_A_9333602	NC_021166.1	Ca_Kabuli_Chr07	9333602	AA	GG	GG	INTERGENIC		
SNP_48245_A_9334030	NC_021166.1	Ca_Kabuli_Chr07	9334030	AA	GG	GG	INTERGENIC		
SNP_48246_A_9334916	NC_021166.1	Ca_Kabuli_Chr07	9334916	TT	CC	CC	INTERGENIC		
SNP_48247_A_9339945	NC_021166.1	Ca_Kabuli_Chr07	9339945	GG	AA	AA	INTERGENIC		
SNP_48248_A_9340085	NC_021166.1	Ca_Kabuli_Chr07	9340085	CC	TT	TT	INTERGENIC		
SNP_48249_A_9340130	NC_021166.1	Ca_Kabuli_Chr07	9340130	AA	GG	GG	INTERGENIC		
SNP_48250_A_9340323	NC_021166.1	Ca_Kabuli_Chr07	9340323	TT	AA	AA	INTERGENIC		
SNP_48251_A_9340357	NC_021166.1	Ca_Kabuli_Chr07	9340357	AA	CC	CC	INTERGENIC		
SNP_48252_A_9340450	NC_021166.1	Ca_Kabuli_Chr07	9340450	AA	CC	CC	INTERGENIC		
SNP_48253_A_9340642	NC_021166.1	Ca_Kabuli_Chr07	9340642	GG	AA	AA	INTERGENIC		
SNP_48254_A_9340653	NC_021166.1	Ca_Kabuli_Chr07	9340653	TT	AA	AA	INTERGENIC		
SNP_48255_A_9341389	NC_021166.1	Ca_Kabuli_Chr07	9341389	GG	AA	AA	INTERGENIC		
SNP_48256_A_9342847	NC_021166.1	Ca_Kabuli_Chr07	9342847	TT	CC	CC	DRR	101512452	putative DNA glycosylase At3g47830
SNP_48257_A_9347148	NC_021166.1	Ca_Kabuli_Chr07	9347148	AA	GG	GG	DRR	101512773	probable alpha-mannosidase I MNS5
SNP_48258_A_9347681	NC_021166.1	Ca_Kabuli_Chr07	9347681	AA	TT	TT	URR	101512452	putative DNA glycosylase At3g47830
SNP_48259_A_9347745	NC_021166.1	Ca_Kabuli_Chr07	9347745	AA	CC	CC	URR	101512452	putative DNA glycosylase At3g47830
SNP_48260_A_9347752	NC_021166.1	Ca_Kabuli_Chr07	9347752	GG	AA	AA	URR	101512452	putative DNA glycosylase At3g47830
SNP_48261_A_9347808	NC_021166.1	Ca_Kabuli_Chr07	9347808	AA	GG	GG	URR	101512452	putative DNA glycosylase At3g47830
SNP_48262_A_9348281	NC_021166.1	Ca_Kabuli_Chr07	9348281	TT	CC	CC	INTERGENIC		
SNP_48263_A_9351475	NC_021166.1	Ca_Kabuli_Chr07	9351475	TT	CC	CC	SYNONYMOUS_CODING	101512773	probable alpha-mannosidase I MNS5
SNP_48264_A_9354475	NC_021166.1	Ca_Kabuli_Chr07	9354475	GG	AA	AA	INTRON	101512773	probable alpha-mannosidase I MNS5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48265_A_9358027	NC_021166.1	Ca_Kabuli_Chr07	9358027	AA	GG	GG	INTERGENIC		
SNP_48267_A_9370199	NC_021166.1	Ca_Kabuli_Chr07	9370199	TT	CC	CC	INTERGENIC		
SNP_48268_A_9370207	NC_021166.1	Ca_Kabuli_Chr07	9370207	GG	TT	TT	INTERGENIC		
SNP_48269_A_9370231	NC_021166.1	Ca_Kabuli_Chr07	9370231	GG	TT	TT	INTERGENIC		
SNP_48270_A_9373031	NC_021166.1	Ca_Kabuli_Chr07	9373031	TT	CC	CC	INTERGENIC		
SNP_48271_A_9373440	NC_021166.1	Ca_Kabuli_Chr07	9373440	AA	GG	GG	DRR	101513422	uncharacterized LOC101513422
SNP_48272_A_9373649	NC_021166.1	Ca_Kabuli_Chr07	9373649	GG	TT	TT	DRR	101513422	uncharacterized LOC101513422
SNP_48273_A_9373689	NC_021166.1	Ca_Kabuli_Chr07	9373689	AA	GG	GG	DRR	101513422	uncharacterized LOC101513422
SNP_48274_A_9373853	NC_021166.1	Ca_Kabuli_Chr07	9373853	CC	AA	AA	DRR	101513422	uncharacterized LOC101513422
SNP_48275_A_9384354	NC_021166.1	Ca_Kabuli_Chr07	9384354	TT	GG	GG	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48276_A_9384448	NC_021166.1	Ca_Kabuli_Chr07	9384448	CC	TT	TT	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48277_A_9384452	NC_021166.1	Ca_Kabuli_Chr07	9384452	AA	TT	TT	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48278_A_9385561	NC_021166.1	Ca_Kabuli_Chr07	9385561	TT	CC	CC	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48279_A_9385625	NC_021166.1	Ca_Kabuli_Chr07	9385625	GG	AA	AA	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48280_A_9385628	NC_021166.1	Ca_Kabuli_Chr07	9385628	TT	AA	AA	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48281_A_9385638	NC_021166.1	Ca_Kabuli_Chr07	9385638	AA	GG	GG	URR	101513735	LIM domain-containing protein WLIM1-like
SNP_48282_A_9385953	NC_021166.1	Ca_Kabuli_Chr07	9385953	AA	GG	GG	INTERGENIC		
SNP_48284_A_9387764	NC_021166.1	Ca_Kabuli_Chr07	9387764	TT	CC	CC	INTERGENIC		
SNP_48285_A_9390507	NC_021166.1	Ca_Kabuli_Chr07	9390507	TT	AA	AA	URR	101514073	uncharacterized LOC101514073
SNP_48286_A_9390520	NC_021166.1	Ca_Kabuli_Chr07	9390520	TT	AA	AA	URR	101514073	uncharacterized LOC101514073
SNP_48287_A_9392601	NC_021166.1	Ca_Kabuli_Chr07	9392601	TT	CC	CC	DRR	101514626	nucleobase-ascorbate transporter 6-like
SNP_48288_A_9396601	NC_021166.1	Ca_Kabuli_Chr07	9396601	GG	TT	TT	INTRON	101514626	nucleobase-ascorbate transporter 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48289_A_9396602	NC_021166.1	Ca_Kabuli_Chr07	9396602	AA	GG	GG	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48290_A_9396811	NC_021166.1	Ca_Kabuli_Chr07	9396811	GG	CC	CC	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48291_A_9397611	NC_021166.1	Ca_Kabuli_Chr07	9397611	CC	GG	GG	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48292_A_9397617	NC_021166.1	Ca_Kabuli_Chr07	9397617	GG	AA	AA	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48293_A_9397646	NC_021166.1	Ca_Kabuli_Chr07	9397646	AA	CC	CC	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48294_A_9397649	NC_021166.1	Ca_Kabuli_Chr07	9397649	CC	TT	TT	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48295_A_9397675	NC_021166.1	Ca_Kabuli_Chr07	9397675	AA	GG	GG	INTRON	101514626	nucleobase-ascorbate transporter 6-like
SNP_48297_A_9402621	NC_021166.1	Ca_Kabuli_Chr07	9402621	AA	GG	GG	INTERGENIC		
SNP_48298_A_9404308	NC_021166.1	Ca_Kabuli_Chr07	9404308	TT	GG	GG	INTERGENIC		
SNP_48299_A_9404592	NC_021166.1	Ca_Kabuli_Chr07	9404592	CC	TT	TT	INTERGENIC		
SNP_48301_A_9406681	NC_021166.1	Ca_Kabuli_Chr07	9406681	GG	TT	TT	INTERGENIC		
SNP_48302_A_9409709	NC_021166.1	Ca_Kabuli_Chr07	9409709	AA	GG	GG	INTERGENIC		
SNP_48303_A_9410081	NC_021166.1	Ca_Kabuli_Chr07	9410081	CC	TT	TT	DRR	101515482	protease Do-like 9
SNP_48304_A_9411711	NC_021166.1	Ca_Kabuli_Chr07	9411711	TT	GG	GG	INTRON	101515482	protease Do-like 9
SNP_48305_A_9412048	NC_021166.1	Ca_Kabuli_Chr07	9412048	GG	AA	AA	INTRON	101515482	protease Do-like 9
SNP_48306_A_9412297	NC_021166.1	Ca_Kabuli_Chr07	9412297	AA	GG	GG	INTRON	101515482	protease Do-like 9
SNP_48307_A_9412372	NC_021166.1	Ca_Kabuli_Chr07	9412372	TT	CC	CC	INTRON	101515482	protease Do-like 9
SNP_48308_A_9412389	NC_021166.1	Ca_Kabuli_Chr07	9412389	AA	GG	GG	INTRON	101515482	protease Do-like 9
SNP_48309_A_9412538	NC_021166.1	Ca_Kabuli_Chr07	9412538	GG	AA	AA	INTRON	101515482	protease Do-like 9
SNP_48310_A_9412604	NC_021166.1	Ca_Kabuli_Chr07	9412604	GG	CC	CC	INTRON	101515482	protease Do-like 9
SNP_48311_A_9412630	NC_021166.1	Ca_Kabuli_Chr07	9412630	CC	TT	TT	INTRON	101515482	protease Do-like 9
SNP_48312_A_9413880	NC_021166.1	Ca_Kabuli_Chr07	9413880	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48313_A_9415050	NC_021166.1	Ca_Kabuli_Chr07	9415050	TT	AA	AA	INTERGENIC		
SNP_48314_A_9415572	NC_021166.1	Ca_Kabuli_Chr07	9415572	AA	GG	GG	INTERGENIC		
SNP_48315_A_9419959	NC_021166.1	Ca_Kabuli_Chr07	9419959	TT	CC	CC	URR	101515482	protease Do-like 9
SNP_48316_A_9420638	NC_021166.1	Ca_Kabuli_Chr07	9420638	AA	GG	GG	URR	101515159	WAT1-related protein At5g40240-like
SNP_48317_A_9420669	NC_021166.1	Ca_Kabuli_Chr07	9420669	GG	AA	AA	URR	101515159	WAT1-related protein At5g40240-like
SNP_48318_A_9421120	NC_021166.1	Ca_Kabuli_Chr07	9421120	CC	GG	GG	DRR	101488236	RING-H2 finger protein ATL48
SNP_48320_A_9421403	NC_021166.1	Ca_Kabuli_Chr07	9421403	AA	CC	CC	DRR	101488236	RING-H2 finger protein ATL48
SNP_48321_A_9421569	NC_021166.1	Ca_Kabuli_Chr07	9421569	GG	AA	AA	DRR	101488236	RING-H2 finger protein ATL48
SNP_48322_A_9421587	NC_021166.1	Ca_Kabuli_Chr07	9421587	TT	AA	AA	DRR	101488236	RING-H2 finger protein ATL48
SNP_48324_A_9422001	NC_021166.1	Ca_Kabuli_Chr07	9422001	TT	AA	AA	DRR	101488236	RING-H2 finger protein ATL48
SNP_48326_A_9424351	NC_021166.1	Ca_Kabuli_Chr07	9424351	AA	CC	CC	URR	101488236	RING-H2 finger protein ATL48
SNP_48327_A_9424539	NC_021166.1	Ca_Kabuli_Chr07	9424539	GG	AA	AA	URR	101488236	RING-H2 finger protein ATL48
SNP_48328_A_9425781	NC_021166.1	Ca_Kabuli_Chr07	9425781	AA	GG	GG	URR	101488236	RING-H2 finger protein ATL48
SNP_48329_A_9425830	NC_021166.1	Ca_Kabuli_Chr07	9425830	GG	CC	CC	URR	101488236	RING-H2 finger protein ATL48
SNP_48330_A_9427388	NC_021166.1	Ca_Kabuli_Chr07	9427388	GG	AA	AA	INTERGENIC		
SNP_48331_A_9431847	NC_021166.1	Ca_Kabuli_Chr07	9431847	CC	TT	TT	DRR	101488565	ubiquitin-conjugating enzyme E2-23 kDa-like
SNP_48332_A_9432881	NC_021166.1	Ca_Kabuli_Chr07	9432881	AA	GG	GG	INTRON	101488565	ubiquitin-conjugating enzyme E2-23 kDa-like
SNP_48333_A_9434501	NC_021166.1	Ca_Kabuli_Chr07	9434501	AA	GG	GG	INTRON	101488565	ubiquitin-conjugating enzyme E2-23 kDa-like
SNP_48335_A_9441071	NC_021166.1	Ca_Kabuli_Chr07	9441071	TT	GG	GG	URR	101488909	RING-H2 finger protein ATL47-like
SNP_48336_A_9441079	NC_021166.1	Ca_Kabuli_Chr07	9441079	CC	TT	TT	URR	101488909	RING-H2 finger protein ATL47-like
SNP_48337_A_9441162	NC_021166.1	Ca_Kabuli_Chr07	9441162	CC	TT	TT	URR	101488909	RING-H2 finger protein ATL47-like
SNP_48338_A_9441163	NC_021166.1	Ca_Kabuli_Chr07	9441163	AA	TT	TT	URR	101488909	RING-H2 finger protein ATL47-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48339_A_9444624	NC_021166.1	Ca_Kabuli_Chr07	9444624	CC	TT	TT	INTERGENIC		
SNP_48340_A_9444704	NC_021166.1	Ca_Kabuli_Chr07	9444704	CC	GG	GG	INTERGENIC		
SNP_48341_A_9448957	NC_021166.1	Ca_Kabuli_Chr07	9448957	AA	GG	GG	URR	101489558	uncharacterized LOC101489558
SNP_48342_A_9449213	NC_021166.1	Ca_Kabuli_Chr07	9449213	GG	AA	AA	DRR	101489876	protein NUCLEAR FUSION DEFECTIVE 2
SNP_48343_A_9449830	NC_021166.1	Ca_Kabuli_Chr07	9449830	AA	GG	GG	DRR	101489876	protein NUCLEAR FUSION DEFECTIVE 2
SNP_48345_A_9454941	NC_021166.1	Ca_Kabuli_Chr07	9454941	GG	AA	AA	INTERGENIC		
SNP_48346_A_9454990	NC_021166.1	Ca_Kabuli_Chr07	9454990	GG	TT	TT	INTERGENIC		
SNP_48347_A_9455005	NC_021166.1	Ca_Kabuli_Chr07	9455005	AA	GG	GG	INTERGENIC		
SNP_48348_A_9455332	NC_021166.1	Ca_Kabuli_Chr07	9455332	TT	CC	CC	DRR	101490212	uncharacterized LOC101490212
SNP_48349_A_9457582	NC_021166.1	Ca_Kabuli_Chr07	9457582	TT	GG	GG	INTRON	101490212	uncharacterized LOC101490212
SNP_48350_A_9457601	NC_021166.1	Ca_Kabuli_Chr07	9457601	TT	AA	AA	INTRON	101490212	uncharacterized LOC101490212
SNP_48351_A_9457637	NC_021166.1	Ca_Kabuli_Chr07	9457637	TT	CC	CC	INTRON	101490212	uncharacterized LOC101490212
SNP_48353_A_9460774	NC_021166.1	Ca_Kabuli_Chr07	9460774	AA	CC	CC	INTERGENIC		
SNP_48354_A_9460817	NC_021166.1	Ca_Kabuli_Chr07	9460817	AA	GG	GG	INTERGENIC		
SNP_48355_A_9461058	NC_021166.1	Ca_Kabuli_Chr07	9461058	CC	TT	TT	INTERGENIC		
SNP_48356_A_9464383	NC_021166.1	Ca_Kabuli_Chr07	9464383	TT	GG	GG	INTRON	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48358_A_9465107	NC_021166.1	Ca_Kabuli_Chr07	9465107	AA	TT	TT	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48359_A_9466089	NC_021166.1	Ca_Kabuli_Chr07	9466089	GG	TT	TT	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48360_A_9466263	NC_021166.1	Ca_Kabuli_Chr07	9466263	GG	AA	AA	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48361_A_9466269	NC_021166.1	Ca_Kabuli_Chr07	9466269	TT	CC	CC	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48362_A_9466285	NC_021166.1	Ca_Kabuli_Chr07	9466285	CC	TT	TT	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial
SNP_48363_A_9466294	NC_021166.1	Ca_Kabuli_Chr07	9466294	AA	GG	GG	URR	101490532	aldehyde dehydrogenase family 2 member B7, mitochondrial

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48364_A_9468213	NC_021166.1	Ca_Kabuli_Chr07	9468213	AA	TT	TT	DRR	101491081	U-box domain-containing protein 19-like
SNP_48365_A_9468321	NC_021166.1	Ca_Kabuli_Chr07	9468321	TT	CC	CC	DRR	101491081	U-box domain-containing protein 19-like
SNP_48367_A_9468540	NC_021166.1	Ca_Kabuli_Chr07	9468540	AA	GG	GG	DRR	101491081	U-box domain-containing protein 19-like
SNP_48368_A_9480232	NC_021166.1	Ca_Kabuli_Chr07	9480232	GG	AA	AA	URR	101491924	serine/threonine-protein kinase HT1-like
SNP_48369_A_9480244	NC_021166.1	Ca_Kabuli_Chr07	9480244	AA	TT	TT	URR	101491924	serine/threonine-protein kinase HT1-like
SNP_48370_A_9480931	NC_021166.1	Ca_Kabuli_Chr07	9480931	TT	GG	GG	URR	101491924	serine/threonine-protein kinase HT1-like
SNP_48371_A_9482175	NC_021166.1	Ca_Kabuli_Chr07	9482175	TT	CC	CC	INTERGENIC		
SNP_48372_A_9482182	NC_021166.1	Ca_Kabuli_Chr07	9482182	CC	TT	TT	INTERGENIC		
SNP_48373_A_9484697	NC_021166.1	Ca_Kabuli_Chr07	9484697	GG	TT	TT	INTERGENIC		
SNP_48374_A_9484701	NC_021166.1	Ca_Kabuli_Chr07	9484701	TT	GG	GG	INTERGENIC		
SNP_48375_A_9485951	NC_021166.1	Ca_Kabuli_Chr07	9485951	TT	CC	CC	INTERGENIC		
SNP_48376_A_9493315	NC_021166.1	Ca_Kabuli_Chr07	9493315	AA	TT	TT	INTERGENIC		
SNP_48377_A_9493936	NC_021166.1	Ca_Kabuli_Chr07	9493936	TT	GG	GG	INTERGENIC		
SNP_48378_A_9493985	NC_021166.1	Ca_Kabuli_Chr07	9493985	AA	GG	GG	INTERGENIC		
SNP_48380_A_9494243	NC_021166.1	Ca_Kabuli_Chr07	9494243	CC	TT	TT	INTERGENIC		
SNP_48381_A_9494255	NC_021166.1	Ca_Kabuli_Chr07	9494255	AA	CC	CC	INTERGENIC		
SNP_48382_A_9494505	NC_021166.1	Ca_Kabuli_Chr07	9494505	GG	AA	AA	INTERGENIC		
SNP_48383_A_9494556	NC_021166.1	Ca_Kabuli_Chr07	9494556	AA	TT	TT	INTERGENIC		
SNP_48384_A_9494561	NC_021166.1	Ca_Kabuli_Chr07	9494561	GG	AA	AA	INTERGENIC		
SNP_48386_A_9496092	NC_021166.1	Ca_Kabuli_Chr07	9496092	AA	GG	GG	INTRON	101492805	E3 ubiquitin-protein ligase SIS3
SNP_48387_A_9500030	NC_021166.1	Ca_Kabuli_Chr07	9500030	CC	TT	TT	URR	101492805	E3 ubiquitin-protein ligase SIS3
SNP_48388_A_9501230	NC_021166.1	Ca_Kabuli_Chr07	9501230	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48389_A_9501265	NC_021166.1	Ca_Kabuli_Chr07	9501265	AA	GG	GG	INTERGENIC		
SNP_48390_A_9501581	NC_021166.1	Ca_Kabuli_Chr07	9501581	GG	AA	AA	INTERGENIC		
SNP_48391_A_9501629	NC_021166.1	Ca_Kabuli_Chr07	9501629	CC	TT	TT	INTERGENIC		
SNP_48392_A_9507211	NC_021166.1	Ca_Kabuli_Chr07	9507211	TT	CC	CC	INTRON	101505597	protein EXECUTER 2, chloroplastic-like
SNP_48393_A_9510220	NC_021166.1	Ca_Kabuli_Chr07	9510220	TT	GG	GG	URR	101505597	protein EXECUTER 2, chloroplastic-like
SNP_48394_A_9510535	NC_021166.1	Ca_Kabuli_Chr07	9510535	CC	GG	GG	URR	101505597	protein EXECUTER 2, chloroplastic-like
SNP_48395_A_9521285	NC_021166.1	Ca_Kabuli_Chr07	9521285	TT	CC	CC	DRR	101493463	serine/threonine-protein kinase HT1-like
SNP_48396_A_9525503	NC_021166.1	Ca_Kabuli_Chr07	9525503	CC	AA	AA	DRR	101410553	transfer RNA leucine (anticodon UAG)
SNP_48397_A_9541645	NC_021166.1	Ca_Kabuli_Chr07	9541645	TT	GG	GG	INTERGENIC		
SNP_48399_A_9543060	NC_021166.1	Ca_Kabuli_Chr07	9543060	CC	TT	TT	INTERGENIC		
SNP_48400_A_9546157	NC_021166.1	Ca_Kabuli_Chr07	9546157	TT	CC	CC	INTRON	id163603	Unknown function
SNP_48401_A_9549668	NC_021166.1	Ca_Kabuli_Chr07	9549668	GG	TT	TT	INTRON	id163603	Unknown function
SNP_48402_A_9549995	NC_021166.1	Ca_Kabuli_Chr07	9549995	AA	GG	GG	INTERGENIC		
SNP_48403_A_9556464	NC_021166.1	Ca_Kabuli_Chr07	9556464	CC	TT	TT	URR	101494945	uncharacterized LOC101494945
SNP_48404_A_9557594	NC_021166.1	Ca_Kabuli_Chr07	9557594	CC	TT	TT	URR	101494945	uncharacterized LOC101494945
SNP_48405_A_9558661	NC_021166.1	Ca_Kabuli_Chr07	9558661	CC	TT	TT	INTERGENIC		
SNP_48406_A_9558663	NC_021166.1	Ca_Kabuli_Chr07	9558663	GG	AA	AA	INTERGENIC		
SNP_48408_A_9559741	NC_021166.1	Ca_Kabuli_Chr07	9559741	GG	AA	AA	INTERGENIC		
SNP_48409_A_9560540	NC_021166.1	Ca_Kabuli_Chr07	9560540	AA	GG	GG	INTERGENIC		
SNP_48410_A_9563521	NC_021166.1	Ca_Kabuli_Chr07	9563521	CC	TT	TT	INTRON	101495274	probable inactive poly [ADP-ribose] polymerase SRO5
SNP_48411_A_9563758	NC_021166.1	Ca_Kabuli_Chr07	9563758	TT	CC	CC	SYNONYMOUS_CODING	101495274	probable inactive poly [ADP-ribose] polymerase SRO5
SNP_48412_A_9566499	NC_021166.1	Ca_Kabuli_Chr07	9566499	GG	AA	AA	URR	101495274	probable inactive poly [ADP-ribose] polymerase SRO5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48413_A_9566529	NC_021166.1	Ca_Kabuli_Chr07	9566529	AA	GG	GG	URR	101495274	probable inactive poly [ADP-ribose] polymerase SRO5
SNP_48414_A_9573169	NC_021166.1	Ca_Kabuli_Chr07	9573169	GG	CC	CC	INTRON	101495596	transducin beta-like protein 3
SNP_48415_A_9573489	NC_021166.1	Ca_Kabuli_Chr07	9573489	AA	CC	CC	INTRON	101495596	transducin beta-like protein 3
SNP_48416_A_9579702	NC_021166.1	Ca_Kabuli_Chr07	9579702	TT	CC	CC	INTERGENIC		
SNP_48417_A_9579705	NC_021166.1	Ca_Kabuli_Chr07	9579705	GG	AA	AA	INTERGENIC		
SNP_48418_A_9580341	NC_021166.1	Ca_Kabuli_Chr07	9580341	CC	TT	TT	INTERGENIC		
SNP_48419_A_9580382	NC_021166.1	Ca_Kabuli_Chr07	9580382	TT	GG	GG	INTERGENIC		
SNP_48420_A_9580392	NC_021166.1	Ca_Kabuli_Chr07	9580392	GG	AA	AA	INTERGENIC		
SNP_48421_A_9582090	NC_021166.1	Ca_Kabuli_Chr07	9582090	GG	AA	AA	INTERGENIC		
SNP_48422_A_9584210	NC_021166.1	Ca_Kabuli_Chr07	9584210	CC	AA	AA	INTERGENIC		
SNP_48424_A_9588841	NC_021166.1	Ca_Kabuli_Chr07	9588841	CC	AA	AA	INTERGENIC		
SNP_48425_A_9589266	NC_021166.1	Ca_Kabuli_Chr07	9589266	TT	CC	CC	INTERGENIC		
SNP_48426_A_9589913	NC_021166.1	Ca_Kabuli_Chr07	9589913	CC	TT	TT	INTERGENIC		
SNP_48427_A_9589944	NC_021166.1	Ca_Kabuli_Chr07	9589944	TT	CC	CC	INTERGENIC		
SNP_48428_A_9590733	NC_021166.1	Ca_Kabuli_Chr07	9590733	CC	TT	TT	INTERGENIC		
SNP_48430_A_9604447	NC_021166.1	Ca_Kabuli_Chr07	9604447	AA	GG	GG	URR	101496144	inositol-tetrakisphosphate 1-kinase 1
SNP_48431_A_9604685	NC_021166.1	Ca_Kabuli_Chr07	9604685	CC	AA	AA	URR	101496144	inositol-tetrakisphosphate 1-kinase 1
SNP_48432_A_9604694	NC_021166.1	Ca_Kabuli_Chr07	9604694	TT	AA	AA	URR	101496144	inositol-tetrakisphosphate 1-kinase 1
SNP_48433_A_9605396	NC_021166.1	Ca_Kabuli_Chr07	9605396	CC	TT	TT	URR	101496144	inositol-tetrakisphosphate 1-kinase 1
SNP_48434_A_9606348	NC_021166.1	Ca_Kabuli_Chr07	9606348	AA	GG	GG	DRR	101496470	GDSL esterase/lipase At5g62930
SNP_48435_A_9606515	NC_021166.1	Ca_Kabuli_Chr07	9606515	GG	AA	AA	DRR	101496470	GDSL esterase/lipase At5g62930
SNP_48436_A_9606794	NC_021166.1	Ca_Kabuli_Chr07	9606794	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48437_A_9612024	NC_021166.1	Ca_Kabuli_Chr07	9612024	TT	CC	CC	INTERGENIC		
SNP_48438_A_9620123	NC_021166.1	Ca_Kabuli_Chr07	9620123	GG	AA	AA	URR	101496806	triose phosphate/phosphate translocator, non-green plastid, chloroplastic-like
SNP_48439_A_9624446	NC_021166.1	Ca_Kabuli_Chr07	9624446	TT	GG	GG	INTRON	101497126	uncharacterized LOC101497126
SNP_48441_A_9626271	NC_021166.1	Ca_Kabuli_Chr07	9626271	TT	CC	CC	URR	101497126	uncharacterized LOC101497126
SNP_48442_A_9626326	NC_021166.1	Ca_Kabuli_Chr07	9626326	CC	AA	AA	URR	101497126	uncharacterized LOC101497126
SNP_48444_A_9641821	NC_021166.1	Ca_Kabuli_Chr07	9641821	CC	GG	GG	URR	101497992	U3 small nucleolar ribonucleoprotein protein MPP10
SNP_48445_A_9644387	NC_021166.1	Ca_Kabuli_Chr07	9644387	CC	AA	AA	INTERGENIC		
SNP_48446_A_9646836	NC_021166.1	Ca_Kabuli_Chr07	9646836	CC	TT	TT	URR	101498321	uncharacterized LOC101498321
SNP_48447_A_9646846	NC_021166.1	Ca_Kabuli_Chr07	9646846	AA	GG	GG	URR	101498321	uncharacterized LOC101498321
SNP_48448_A_9647874	NC_021166.1	Ca_Kabuli_Chr07	9647874	AA	GG	GG	INTERGENIC		
SNP_48450_A_9648551	NC_021166.1	Ca_Kabuli_Chr07	9648551	TT	CC	CC	INTERGENIC		
SNP_48451_A_9649050	NC_021166.1	Ca_Kabuli_Chr07	9649050	AA	GG	GG	INTERGENIC		
SNP_48452_A_9649293	NC_021166.1	Ca_Kabuli_Chr07	9649293	TT	GG	GG	INTERGENIC		
SNP_48453_A_9649436	NC_021166.1	Ca_Kabuli_Chr07	9649436	AA	GG	GG	INTERGENIC		
SNP_48454_A_9652074	NC_021166.1	Ca_Kabuli_Chr07	9652074	AA	GG	GG	SYNONYMOUS_CODING	101498661	uncharacterized LOC101498661
SNP_48456_A_9658037	NC_021166.1	Ca_Kabuli_Chr07	9658037	TT	AA	AA	URR	101498985	cysteine-rich receptor-like protein kinase 1
SNP_48457_A_9659319	NC_021166.1	Ca_Kabuli_Chr07	9659319	CC	TT	TT	URR	101498985	cysteine-rich receptor-like protein kinase 1
SNP_48458_A_9661791	NC_021166.1	Ca_Kabuli_Chr07	9661791	TT	CC	CC	INTERGENIC		
SNP_48459_A_9661807	NC_021166.1	Ca_Kabuli_Chr07	9661807	CC	AA	AA	INTERGENIC		
SNP_48460_A_9662792	NC_021166.1	Ca_Kabuli_Chr07	9662792	AA	TT	TT	INTRON	101506234	MORC family CW-type zinc finger protein 3-like
SNP_48461_A_9665666	NC_021166.1	Ca_Kabuli_Chr07	9665666	CC	TT	TT	INTERGENIC		
SNP_48463_A_9666688	NC_021166.1	Ca_Kabuli_Chr07	9666688	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48464_A_9667570	NC_021166.1	Ca_Kabuli_Chr07	9667570	CC	TT	TT	INTERGENIC		
SNP_48465_A_9668224	NC_021166.1	Ca_Kabuli_Chr07	9668224	AA	TT	TT	DRR	101499307	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_48467_A_9672492	NC_021166.1	Ca_Kabuli_Chr07	9672492	TT	CC	CC	URR	101499307	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_48468_A_9672795	NC_021166.1	Ca_Kabuli_Chr07	9672795	AA	TT	TT	URR	101499307	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_48469_A_9673040	NC_021166.1	Ca_Kabuli_Chr07	9673040	GG	TT	TT	URR	101499307	LRR receptor-like serine/threonine-protein kinase GSO1
SNP_48470_A_9676332	NC_021166.1	Ca_Kabuli_Chr07	9676332	CC	TT	TT	INTERGENIC		
SNP_48471_A_9676368	NC_021166.1	Ca_Kabuli_Chr07	9676368	TT	GG	GG	INTERGENIC		
SNP_48473_A_9677768	NC_021166.1	Ca_Kabuli_Chr07	9677768	GG	CC	CC	DRR	101499621	uncharacterized LOC101499621
SNP_48474_A_9679543	NC_021166.1	Ca_Kabuli_Chr07	9679543	CC	TT	TT	INTERGENIC		
SNP_48475_A_9680846	NC_021166.1	Ca_Kabuli_Chr07	9680846	AA	CC	CC	INTERGENIC		
SNP_48476_A_9682328	NC_021166.1	Ca_Kabuli_Chr07	9682328	TT	AA	AA	URR	101499621	uncharacterized LOC101499621
SNP_48477_A_9682778	NC_021166.1	Ca_Kabuli_Chr07	9682778	CC	TT	TT	URR	101499621	uncharacterized LOC101499621
SNP_48478_A_9686252	NC_021166.1	Ca_Kabuli_Chr07	9686252	AA	GG	GG	URR	101506565	Unknown function
SNP_48479_A_9686971	NC_021166.1	Ca_Kabuli_Chr07	9686971	TT	AA	AA	INTRON	101500385	VAMP-like protein YKT61
SNP_48480_A_9687254	NC_021166.1	Ca_Kabuli_Chr07	9687254	AA	GG	GG	INTRON	101500385	VAMP-like protein YKT61
SNP_48481_A_9687328	NC_021166.1	Ca_Kabuli_Chr07	9687328	AA	GG	GG	INTRON	101500385	VAMP-like protein YKT61
SNP_48482_A_9693712	NC_021166.1	Ca_Kabuli_Chr07	9693712	CC	TT	TT	INTERGENIC		
SNP_48483_A_9693745	NC_021166.1	Ca_Kabuli_Chr07	9693745	AA	GG	GG	INTERGENIC		
SNP_48484_A_9694053	NC_021166.1	Ca_Kabuli_Chr07	9694053	GG	TT	TT	DRR	101501227	heme-binding protein 2-like
SNP_48485_A_9694458	NC_021166.1	Ca_Kabuli_Chr07	9694458	TT	CC	CC	DRR	101501227	heme-binding protein 2-like
SNP_48486_A_9697056	NC_021166.1	Ca_Kabuli_Chr07	9697056	CC	TT	TT	URR	101501227	heme-binding protein 2-like
SNP_48487_A_9699568	NC_021166.1	Ca_Kabuli_Chr07	9699568	TT	CC	CC	SYNONYMOUS_CODING	101501538	phosphatidylinositol transfer protein CSR1

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SNP_48488_A_9699875	NC_021166.1	Ca_Kabuli_Chr07	9699875	AA	TT	TT	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48490_A_9699911	NC_021166.1	Ca_Kabuli_Chr07	9699911	AA	GG	GG	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48491_A_9699941	NC_021166.1	Ca_Kabuli_Chr07	9699941	TT	CC	CC	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48492_A_9700346	NC_021166.1	Ca_Kabuli_Chr07	9700346	TT	CC	CC	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48493_A_9701011	NC_021166.1	Ca_Kabuli_Chr07	9701011	AA	TT	TT	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48494_A_9701087	NC_021166.1	Ca_Kabuli_Chr07	9701087	CC	TT	TT	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48495_A_9701101	NC_021166.1	Ca_Kabuli_Chr07	9701101	TT	GG	GG	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48496_A_9701102	NC_021166.1	Ca_Kabuli_Chr07	9701102	GG	AA	AA	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48497_A_9701103	NC_021166.1	Ca_Kabuli_Chr07	9701103	TT	CC	CC	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48498_A_9701104	NC_021166.1	Ca_Kabuli_Chr07	9701104	GG	AA	AA	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48499_A_9701132	NC_021166.1	Ca_Kabuli_Chr07	9701132	AA	GG	GG	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48501_A_9701192	NC_021166.1	Ca_Kabuli_Chr07	9701192	TT	CC	CC	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48502_A_9701201	NC_021166.1	Ca_Kabuli_Chr07	9701201	GG	AA	AA	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48503_A_9701355	NC_021166.1	Ca_Kabuli_Chr07	9701355	AA	GG	GG	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48504_A_9701371	NC_021166.1	Ca_Kabuli_Chr07	9701371	GG	AA	AA	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48505_A_9701384	NC_021166.1	Ca_Kabuli_Chr07	9701384	TT	CC	CC	URR	101501538	phosphatidylinositol transfer protein CSR1
SNP_48506_A_9705184	NC_021166.1	Ca_Kabuli_Chr07	9705184	AA	CC	CC	INTERGENIC		
SNP_48508_A_9705577	NC_021166.1	Ca_Kabuli_Chr07	9705577	CC	TT	TT	INTERGENIC		
SNP_48509_A_9705592	NC_021166.1	Ca_Kabuli_Chr07	9705592	CC	TT	TT	INTERGENIC		
SNP_48510_A_9705617	NC_021166.1	Ca_Kabuli_Chr07	9705617	CC	GG	GG	INTERGENIC		
SNP_48511_A_9707153	NC_021166.1	Ca_Kabuli_Chr07	9707153	AA	GG	GG	INTERGENIC		
SNP_48512_A_9708719	NC_021166.1	Ca_Kabuli_Chr07	9708719	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48513_A_9708722	NC_021166.1	Ca_Kabuli_Chr07	9708722	CC	TT	TT	INTERGENIC		
SNP_48514_A_9708914	NC_021166.1	Ca_Kabuli_Chr07	9708914	TT	AA	AA	INTERGENIC		
SNP_48515_A_9709090	NC_021166.1	Ca_Kabuli_Chr07	9709090	AA	GG	GG	INTERGENIC		
SNP_48516_A_9710533	NC_021166.1	Ca_Kabuli_Chr07	9710533	TT	CC	CC	INTERGENIC		
SNP_48517_A_9710579	NC_021166.1	Ca_Kabuli_Chr07	9710579	GG	AA	AA	INTERGENIC		
SNP_48518_A_9710791	NC_021166.1	Ca_Kabuli_Chr07	9710791	GG	AA	AA	INTERGENIC		
SNP_48521_A_9711138	NC_021166.1	Ca_Kabuli_Chr07	9711138	AA	GG	GG	INTERGENIC		
SNP_48522_A_9711194	NC_021166.1	Ca_Kabuli_Chr07	9711194	CC	TT	TT	INTERGENIC		
SNP_48523_A_9713992	NC_021166.1	Ca_Kabuli_Chr07	9713992	GG	AA	AA	INTERGENIC		
SNP_48524_A_9713998	NC_021166.1	Ca_Kabuli_Chr07	9713998	GG	TT	TT	INTERGENIC		
SNP_48525_A_9714036	NC_021166.1	Ca_Kabuli_Chr07	9714036	CC	TT	TT	INTERGENIC		
SNP_48526_A_9714152	NC_021166.1	Ca_Kabuli_Chr07	9714152	GG	AA	AA	INTERGENIC		
SNP_48527_A_9716470	NC_021166.1	Ca_Kabuli_Chr07	9716470	TT	GG	GG	INTERGENIC		
SNP_48528_A_9716474	NC_021166.1	Ca_Kabuli_Chr07	9716474	AA	GG	GG	INTERGENIC		
SNP_48529_A_9719720	NC_021166.1	Ca_Kabuli_Chr07	9719720	GG	AA	AA	DRR	101501856	uncharacterized LOC101501856
SNP_48530_A_9722004	NC_021166.1	Ca_Kabuli_Chr07	9722004	AA	GG	GG	INTRON	101501856	uncharacterized LOC101501856
SNP_48531_A_9725452	NC_021166.1	Ca_Kabuli_Chr07	9725452	TT	GG	GG	INTERGENIC		
SNP_48532_A_9725524	NC_021166.1	Ca_Kabuli_Chr07	9725524	TT	AA	AA	INTERGENIC		
SNP_48533_A_9725536	NC_021166.1	Ca_Kabuli_Chr07	9725536	GG	AA	AA	INTERGENIC		
SNP_48534_A_9725580	NC_021166.1	Ca_Kabuli_Chr07	9725580	AA	GG	GG	INTERGENIC		
SNP_48535_A_9725839	NC_021166.1	Ca_Kabuli_Chr07	9725839	AA	TT	TT	INTERGENIC		
SNP_48536_A_9725852	NC_021166.1	Ca_Kabuli_Chr07	9725852	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48537_A_9725863	NC_021166.1	Ca_Kabuli_Chr07	9725863	GG	TT	TT	INTERGENIC		
SNP_48538_A_9726892	NC_021166.1	Ca_Kabuli_Chr07	9726892	CC	GG	GG	INTERGENIC		
SNP_48539_A_9728592	NC_021166.1	Ca_Kabuli_Chr07	9728592	TT	CC	CC	INTERGENIC		
SNP_48540_A_9728779	NC_021166.1	Ca_Kabuli_Chr07	9728779	GG	AA	AA	INTERGENIC		
SNP_48541_A_9733697	NC_021166.1	Ca_Kabuli_Chr07	9733697	GG	AA	AA	INTERGENIC		
SNP_48542_A_9733711	NC_021166.1	Ca_Kabuli_Chr07	9733711	CC	GG	GG	INTERGENIC		
SNP_48543_A_9738367	NC_021166.1	Ca_Kabuli_Chr07	9738367	TT	CC	CC	DRR	101502179	probable LRR receptor-like serine/threonine-protein kinase At4g26540
SNP_48544_A_9739332	NC_021166.1	Ca_Kabuli_Chr07	9739332	CC	TT	TT	INTERGENIC		
SNP_48545_A_9742376	NC_021166.1	Ca_Kabuli_Chr07	9742376	AA	TT	TT	URR	101502179	probable LRR receptor-like serine/threonine-protein kinase At4g26540
SNP_48546_A_9745019	NC_021166.1	Ca_Kabuli_Chr07	9745019	AA	GG	GG	URR	101506899	Unknown function
SNP_48547_A_9745046	NC_021166.1	Ca_Kabuli_Chr07	9745046	TT	AA	AA	URR	101506899	Unknown function
SNP_48548_A_9745578	NC_021166.1	Ca_Kabuli_Chr07	9745578	AA	GG	GG	INTERGENIC		
SNP_48549_A_9750598	NC_021166.1	Ca_Kabuli_Chr07	9750598	TT	AA	AA	INTERGENIC		
SNP_48550_A_9751050	NC_021166.1	Ca_Kabuli_Chr07	9751050	CC	AA	AA	INTERGENIC		
SNP_48551_A_9751430	NC_021166.1	Ca_Kabuli_Chr07	9751430	CC	TT	TT	INTERGENIC		
SNP_48552_A_9751452	NC_021166.1	Ca_Kabuli_Chr07	9751452	AA	TT	TT	INTERGENIC		
SNP_48553_A_9751824	NC_021166.1	Ca_Kabuli_Chr07	9751824	GG	TT	TT	INTERGENIC		
SNP_48554_A_9752096	NC_021166.1	Ca_Kabuli_Chr07	9752096	AA	TT	TT	INTERGENIC		
SNP_48555_A_9754291	NC_021166.1	Ca_Kabuli_Chr07	9754291	AA	GG	GG	INTERGENIC		
SNP_48556_A_9756525	NC_021166.1	Ca_Kabuli_Chr07	9756525	GG	CC	CC	INTERGENIC		
SNP_48557_A_9756529	NC_021166.1	Ca_Kabuli_Chr07	9756529	GG	AA	AA	INTERGENIC		
SNP_48558_A_9757175	NC_021166.1	Ca_Kabuli_Chr07	9757175	GG	TT	TT	DRR	101502493	suppressor of mec-8 and unc-52 protein homolog 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48559_A_9757403	NC_021166.1	Ca_Kabuli_Chr07	9757403	AA	GG	GG	DRR	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48560_A_9763855	NC_021166.1	Ca_Kabuli_Chr07	9763855	GG	AA	AA	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48561_A_9763885	NC_021166.1	Ca_Kabuli_Chr07	9763885	CC	TT	TT	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48562_A_9764252	NC_021166.1	Ca_Kabuli_Chr07	9764252	GG	AA	AA	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48563_A_9764265	NC_021166.1	Ca_Kabuli_Chr07	9764265	AA	GG	GG	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48564_A_9768828	NC_021166.1	Ca_Kabuli_Chr07	9768828	CC	TT	TT	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48565_A_9770857	NC_021166.1	Ca_Kabuli_Chr07	9770857	CC	TT	TT	INTRON	101502493	suppressor of mec-8 and unc-52 protein homolog 1
SNP_48566_A_9774219	NC_021166.1	Ca_Kabuli_Chr07	9774219	TT	CC	CC	INTERGENIC		
SNP_48568_A_9774689	NC_021166.1	Ca_Kabuli_Chr07	9774689	CC	TT	TT	INTERGENIC		
SNP_48569_A_9798706	NC_021166.1	Ca_Kabuli_Chr07	9798706	CC	AA	AA	INTERGENIC		
SNP_48570_A_9799093	NC_021166.1	Ca_Kabuli_Chr07	9799093	GG	AA	AA	INTERGENIC		
SNP_48571_A_9799181	NC_021166.1	Ca_Kabuli_Chr07	9799181	TT	CC	CC	INTERGENIC		
SNP_48572_A_9799186	NC_021166.1	Ca_Kabuli_Chr07	9799186	GG	AA	AA	INTERGENIC		
SNP_48573_A_9800647	NC_021166.1	Ca_Kabuli_Chr07	9800647	TT	CC	CC	INTERGENIC		
SNP_48574_A_9801974	NC_021166.1	Ca_Kabuli_Chr07	9801974	GG	TT	TT	INTERGENIC		
SNP_48575_A_9802791	NC_021166.1	Ca_Kabuli_Chr07	9802791	TT	CC	CC	INTERGENIC		
SNP_48576_A_9802803	NC_021166.1	Ca_Kabuli_Chr07	9802803	GG	AA	AA	INTERGENIC		
SNP_48577_A_9802849	NC_021166.1	Ca_Kabuli_Chr07	9802849	TT	GG	GG	INTERGENIC		
SNP_48578_A_9809832	NC_021166.1	Ca_Kabuli_Chr07	9809832	CC	GG	GG	INTERGENIC		
SNP_48579_A_9812015	NC_021166.1	Ca_Kabuli_Chr07	9812015	AA	CC	CC	INTERGENIC		
SNP_48580_A_9812073	NC_021166.1	Ca_Kabuli_Chr07	9812073	TT	GG	GG	INTERGENIC		
SNP_48581_A_9813895	NC_021166.1	Ca_Kabuli_Chr07	9813895	AA	GG	GG	URR	101507757	protein CWC15 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48582_A_9814152	NC_021166.1	Ca_Kabuli_Chr07	9814152	GG	AA	AA	URR	101507757	protein CWC15 homolog
SNP_48583_A_9814278	NC_021166.1	Ca_Kabuli_Chr07	9814278	TT	GG	GG	URR	101507757	protein CWC15 homolog
SNP_48585_A_9814578	NC_021166.1	Ca_Kabuli_Chr07	9814578	AA	GG	GG	URR	101507757	protein CWC15 homolog
SNP_48586_A_9814636	NC_021166.1	Ca_Kabuli_Chr07	9814636	CC	TT	TT	URR	101507757	protein CWC15 homolog
SNP_48588_A_9815772	NC_021166.1	Ca_Kabuli_Chr07	9815772	CC	AA	AA	INTERGENIC		
SNP_48589_A_9815921	NC_021166.1	Ca_Kabuli_Chr07	9815921	CC	GG	GG	INTERGENIC		
SNP_48590_A_9815937	NC_021166.1	Ca_Kabuli_Chr07	9815937	AA	CC	CC	INTERGENIC		
SNP_48591_A_9815941	NC_021166.1	Ca_Kabuli_Chr07	9815941	AA	GG	GG	INTERGENIC		
SNP_48592_A_9821385	NC_021166.1	Ca_Kabuli_Chr07	9821385	CC	TT	TT	INTRON	101508081	putative glucuronosyltransferase PGSIIP8
SNP_48594_A_9826139	NC_021166.1	Ca_Kabuli_Chr07	9826139	CC	TT	TT	INTERGENIC		
SNP_48595_A_9826450	NC_021166.1	Ca_Kabuli_Chr07	9826450	CC	TT	TT	INTERGENIC		
SNP_48596_A_9833743	NC_021166.1	Ca_Kabuli_Chr07	9833743	GG	AA	AA	DRR	101508705	asparagine--tRNA ligase, chloroplastic/mitochondrial
SNP_48597_A_9843359	NC_021166.1	Ca_Kabuli_Chr07	9843359	GG	AA	AA	URR	101508705	asparagine--tRNA ligase, chloroplastic/mitochondrial
SNP_48598_A_9843378	NC_021166.1	Ca_Kabuli_Chr07	9843378	GG	AA	AA	URR	101508705	asparagine--tRNA ligase, chloroplastic/mitochondrial
SNP_48600_A_9843776	NC_021166.1	Ca_Kabuli_Chr07	9843776	GG	AA	AA	INTERGENIC		
SNP_48603_A_9843909	NC_021166.1	Ca_Kabuli_Chr07	9843909	TT	AA	AA	INTERGENIC		
SNP_48605_A_9844194	NC_021166.1	Ca_Kabuli_Chr07	9844194	CC	TT	TT	INTERGENIC		
SNP_48606_A_9844561	NC_021166.1	Ca_Kabuli_Chr07	9844561	TT	CC	CC	INTERGENIC		
SNP_48608_A_9844880	NC_021166.1	Ca_Kabuli_Chr07	9844880	GG	AA	AA	INTERGENIC		
SNP_48609_A_9845369	NC_021166.1	Ca_Kabuli_Chr07	9845369	TT	GG	GG	DRR	101509022	40S ribosomal protein S30
SNP_48610_A_9845471	NC_021166.1	Ca_Kabuli_Chr07	9845471	AA	TT	TT	DRR	101509022	40S ribosomal protein S30
SNP_48611_A_9847658	NC_021166.1	Ca_Kabuli_Chr07	9847658	AA	GG	GG	DRR	101509344	protein transport protein SEC16B homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48612_A_9849513	NC_021166.1	Ca_Kabuli_Chr07	9849513	GG	AA	AA	INTRON	101509344	protein transport protein SEC16B homolog
SNP_48613_A_9849514	NC_021166.1	Ca_Kabuli_Chr07	9849514	TT	CC	CC	INTRON	101509344	protein transport protein SEC16B homolog
SNP_48614_A_9858486	NC_021166.1	Ca_Kabuli_Chr07	9858486	TT	CC	CC	URR	101509344	protein transport protein SEC16B homolog
SNP_48615_A_9863929	NC_021166.1	Ca_Kabuli_Chr07	9863929	GG	AA	AA	INTERGENIC		
SNP_48616_A_9863930	NC_021166.1	Ca_Kabuli_Chr07	9863930	AA	TT	TT	INTERGENIC		
SNP_48617_A_9863957	NC_021166.1	Ca_Kabuli_Chr07	9863957	GG	AA	AA	INTERGENIC		
SNP_48618_A_9863962	NC_021166.1	Ca_Kabuli_Chr07	9863962	AA	GG	GG	INTERGENIC		
SNP_48619_A_9864985	NC_021166.1	Ca_Kabuli_Chr07	9864985	TT	GG	GG	INTERGENIC		
SNP_48620_A_9865006	NC_021166.1	Ca_Kabuli_Chr07	9865006	AA	GG	GG	INTERGENIC		
SNP_48621_A_9865161	NC_021166.1	Ca_Kabuli_Chr07	9865161	CC	TT	TT	INTERGENIC		
SNP_48623_A_9868392	NC_021166.1	Ca_Kabuli_Chr07	9868392	AA	GG	GG	URR	101509664	zinc finger protein ZAT9-like
SNP_48624_A_9869705	NC_021166.1	Ca_Kabuli_Chr07	9869705	GG	AA	AA	URR	101509664	zinc finger protein ZAT9-like
SNP_48625_A_9869713	NC_021166.1	Ca_Kabuli_Chr07	9869713	GG	AA	AA	URR	101509664	zinc finger protein ZAT9-like
SNP_48626_A_9869718	NC_021166.1	Ca_Kabuli_Chr07	9869718	GG	AA	AA	URR	101509664	zinc finger protein ZAT9-like
SNP_48627_A_9869723	NC_021166.1	Ca_Kabuli_Chr07	9869723	CC	AA	AA	URR	101509664	zinc finger protein ZAT9-like
SNP_48628_A_9871092	NC_021166.1	Ca_Kabuli_Chr07	9871092	TT	CC	CC	INTERGENIC		
SNP_48629_A_9879857	NC_021166.1	Ca_Kabuli_Chr07	9879857	AA	CC	CC	DRR	101512454	WAT1-related protein At5g47470-like
SNP_48630_A_9879863	NC_021166.1	Ca_Kabuli_Chr07	9879863	AA	GG	GG	DRR	101512454	WAT1-related protein At5g47470-like
SNP_48631_A_9880707	NC_021166.1	Ca_Kabuli_Chr07	9880707	TT	CC	CC	INTERGENIC		
SNP_48632_A_9880729	NC_021166.1	Ca_Kabuli_Chr07	9880729	CC	TT	TT	INTERGENIC		
SNP_48633_A_9880733	NC_021166.1	Ca_Kabuli_Chr07	9880733	TT	CC	CC	INTERGENIC		
SNP_48634_A_9880745	NC_021166.1	Ca_Kabuli_Chr07	9880745	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48635_A_9880767	NC_021166.1	Ca_Kabuli_Chr07	9880767	TT	CC	CC	INTERGENIC		
SNP_48636_A_9889378	NC_021166.1	Ca_Kabuli_Chr07	9889378	GG	TT	TT	DRR	101514833	uncharacterized protein At1g04910-like
SNP_48637_A_9889772	NC_021166.1	Ca_Kabuli_Chr07	9889772	CC	TT	TT	URR	101509988	protein NUCLEAR FUSION DEFECTIVE 6, chloroplastic/mitochondrial-like
SNP_48638_A_9890046	NC_021166.1	Ca_Kabuli_Chr07	9890046	TT	AA	AA	URR	101509988	protein NUCLEAR FUSION DEFECTIVE 6, chloroplastic/mitochondrial-like
SNP_48639_A_9892267	NC_021166.1	Ca_Kabuli_Chr07	9892267	TT	CC	CC	INTERGENICWARNING_TRANS CRIP1_INCOMPLETE)	0	Unknown function
SNP_48640_A_9898425	NC_021166.1	Ca_Kabuli_Chr07	9898425	GG	TT	TT	INTERGENIC		
SNP_48641_A_9904504	NC_021166.1	Ca_Kabuli_Chr07	9904504	CC	TT	TT	SYNONYMOUS_CODING	101512775	uncharacterized LOC101512775
SNP_48642_A_9905354	NC_021166.1	Ca_Kabuli_Chr07	9905354	GG	AA	AA	INTRON	101512775	uncharacterized LOC101512775
SNP_48643_A_9908383	NC_021166.1	Ca_Kabuli_Chr07	9908383	TT	CC	CC	URR	101512775	uncharacterized LOC101512775
SNP_48644_A_9908384	NC_021166.1	Ca_Kabuli_Chr07	9908384	GG	AA	AA	URR	101512775	uncharacterized LOC101512775
SNP_48645_A_9908394	NC_021166.1	Ca_Kabuli_Chr07	9908394	GG	AA	AA	URR	101512775	uncharacterized LOC101512775
SNP_48646_A_9908399	NC_021166.1	Ca_Kabuli_Chr07	9908399	CC	AA	AA	URR	101512775	uncharacterized LOC101512775
SNP_48647_A_9908415	NC_021166.1	Ca_Kabuli_Chr07	9908415	GG	AA	AA	URR	101512775	uncharacterized LOC101512775
SNP_48648_A_9908419	NC_021166.1	Ca_Kabuli_Chr07	9908419	CC	TT	TT	URR	101512775	uncharacterized LOC101512775
SNP_48649_A_9908439	NC_021166.1	Ca_Kabuli_Chr07	9908439	AA	GG	GG	URR	101512775	uncharacterized LOC101512775
SNP_48650_A_9915898	NC_021166.1	Ca_Kabuli_Chr07	9915898	TT	CC	CC	INTERGENIC		
SNP_48651_A_9915972	NC_021166.1	Ca_Kabuli_Chr07	9915972	TT	CC	CC	INTERGENIC		
SNP_48652_A_9916185	NC_021166.1	Ca_Kabuli_Chr07	9916185	CC	TT	TT	INTERGENIC		
SNP_48653_A_9916187	NC_021166.1	Ca_Kabuli_Chr07	9916187	TT	GG	GG	INTERGENIC		
SNP_48654_A_9916201	NC_021166.1	Ca_Kabuli_Chr07	9916201	CC	AA	AA	INTERGENIC		
SNP_48655_A_9916463	NC_021166.1	Ca_Kabuli_Chr07	9916463	TT	GG	GG	INTERGENIC		
SNP_48656_A_9916980	NC_021166.1	Ca_Kabuli_Chr07	9916980	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48657_A_9917052	NC_021166.1	Ca_Kabuli_Chr07	9917052	GG	CC	CC	INTERGENIC		
SNP_48658_A_9917057	NC_021166.1	Ca_Kabuli_Chr07	9917057	AA	GG	GG	INTERGENIC		
SNP_48659_A_9917061	NC_021166.1	Ca_Kabuli_Chr07	9917061	TT	CC	CC	INTERGENIC		
SNP_48660_A_9917117	NC_021166.1	Ca_Kabuli_Chr07	9917117	CC	TT	TT	INTERGENIC		
SNP_48661_A_9917388	NC_021166.1	Ca_Kabuli_Chr07	9917388	GG	AA	AA	INTERGENIC		
SNP_48662_A_9918810	NC_021166.1	Ca_Kabuli_Chr07	9918810	TT	GG	GG	INTERGENIC		
SNP_48663_A_9918847	NC_021166.1	Ca_Kabuli_Chr07	9918847	AA	GG	GG	INTERGENIC		
SNP_48664_A_9919005	NC_021166.1	Ca_Kabuli_Chr07	9919005	TT	CC	CC	INTERGENIC		
SNP_48665_A_9919018	NC_021166.1	Ca_Kabuli_Chr07	9919018	TT	CC	CC	INTERGENIC		
SNP_48666_A_9919128	NC_021166.1	Ca_Kabuli_Chr07	9919128	TT	CC	CC	INTERGENIC		
SNP_48667_A_9919135	NC_021166.1	Ca_Kabuli_Chr07	9919135	GG	AA	AA	INTERGENIC		
SNP_48668_A_9919399	NC_021166.1	Ca_Kabuli_Chr07	9919399	AA	CC	CC	INTERGENIC		
SNP_48669_A_9919476	NC_021166.1	Ca_Kabuli_Chr07	9919476	CC	TT	TT	INTERGENIC		
SNP_48670_A_9919559	NC_021166.1	Ca_Kabuli_Chr07	9919559	CC	AA	AA	INTERGENIC		
SNP_48671_A_9919744	NC_021166.1	Ca_Kabuli_Chr07	9919744	AA	GG	GG	INTERGENIC		
SNP_48672_A_9919818	NC_021166.1	Ca_Kabuli_Chr07	9919818	TT	CC	CC	INTERGENIC		
SNP_48673_A_9920676	NC_021166.1	Ca_Kabuli_Chr07	9920676	CC	AA	AA	INTERGENIC		
SNP_48674_A_9921329	NC_021166.1	Ca_Kabuli_Chr07	9921329	CC	TT	TT	INTERGENIC		
SNP_48675_A_9925819	NC_021166.1	Ca_Kabuli_Chr07	9925819	CC	AA	AA	URR	101515374	uncharacterized LOC101515374
SNP_48677_A_9929388	NC_021166.1	Ca_Kabuli_Chr07	9929388	CC	TT	TT	INTERGENIC		
SNP_48679_A_9942026	NC_021166.1	Ca_Kabuli_Chr07	9942026	TT	CC	CC	URR	101489018	uncharacterized LOC101489018
SNP_48680_A_9942035	NC_021166.1	Ca_Kabuli_Chr07	9942035	TT	AA	AA	URR	101489018	uncharacterized LOC101489018

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48681_A_9942736	NC_021166.1	Ca_Kabuli_Chr07	9942736	TT	CC	CC	URR	101489018	uncharacterized LOC101489018
SNP_48682_A_9943296	NC_021166.1	Ca_Kabuli_Chr07	9943296	CC	AA	AA	URR	101489018	uncharacterized LOC101489018
SNP_48683_A_9943719	NC_021166.1	Ca_Kabuli_Chr07	9943719	CC	TT	TT	DRR	101489346	uncharacterized LOC101489346
SNP_48684_A_9946037	NC_021166.1	Ca_Kabuli_Chr07	9946037	TT	CC	CC	INTRON	101489346	uncharacterized LOC101489346
SNP_48685_A_9947405	NC_021166.1	Ca_Kabuli_Chr07	9947405	AA	GG	GG	INTRON	101489346	uncharacterized LOC101489346
SNP_48686_A_9951007	NC_021166.1	Ca_Kabuli_Chr07	9951007	AA	CC	CC	URR	101489346	uncharacterized LOC101489346
SNP_48687_A_9951016	NC_021166.1	Ca_Kabuli_Chr07	9951016	AA	GG	GG	URR	101489346	uncharacterized LOC101489346
SNP_48688_A_9951178	NC_021166.1	Ca_Kabuli_Chr07	9951178	GG	TT	TT	URR	101489346	uncharacterized LOC101489346
SNP_48690_A_9954074	NC_021166.1	Ca_Kabuli_Chr07	9954074	TT	CC	CC	INTERGENIC		
SNP_48691_A_9954481	NC_021166.1	Ca_Kabuli_Chr07	9954481	GG	CC	CC	INTERGENIC		
SNP_48692_A_9954535	NC_021166.1	Ca_Kabuli_Chr07	9954535	GG	AA	AA	INTERGENIC		
SNP_48693_A_9954551	NC_021166.1	Ca_Kabuli_Chr07	9954551	AA	TT	TT	INTERGENIC		
SNP_48694_A_9954566	NC_021166.1	Ca_Kabuli_Chr07	9954566	AA	GG	GG	INTERGENIC		
SNP_48695_A_9954621	NC_021166.1	Ca_Kabuli_Chr07	9954621	CC	TT	TT	INTERGENIC		
SNP_48696_A_9954633	NC_021166.1	Ca_Kabuli_Chr07	9954633	TT	GG	GG	INTERGENIC		
SNP_48697_A_9954642	NC_021166.1	Ca_Kabuli_Chr07	9954642	AA	GG	GG	INTERGENIC		
SNP_48698_A_9954670	NC_021166.1	Ca_Kabuli_Chr07	9954670	CC	TT	TT	INTERGENIC		
SNP_48699_A_9954824	NC_021166.1	Ca_Kabuli_Chr07	9954824	CC	TT	TT	INTERGENIC		
SNP_48700_A_9955821	NC_021166.1	Ca_Kabuli_Chr07	9955821	TT	CC	CC	INTERGENIC		
SNP_48701_A_9959293	NC_021166.1	Ca_Kabuli_Chr07	9959293	CC	TT	TT	INTERGENIC		
SNP_48702_A_9959343	NC_021166.1	Ca_Kabuli_Chr07	9959343	CC	AA	AA	INTERGENIC		
SNP_48704_A_9964992	NC_021166.1	Ca_Kabuli_Chr07	9964992	GG	TT	TT	URR	101489673	probable glycosyltransferase At5g03795

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48705_A_9965014	NC_021166.1	Ca_Kabuli_Chr07	9965014	AA	GG	GG	URR	101489673	probable glycosyltransferase At5g03795
SNP_48706_A_9965284	NC_021166.1	Ca_Kabuli_Chr07	9965284	CC	AA	AA	URR	101489673	probable glycosyltransferase At5g03795
SNP_48707_A_9965289	NC_021166.1	Ca_Kabuli_Chr07	9965289	CC	TT	TT	URR	101489673	probable glycosyltransferase At5g03795
SNP_48708_A_9966991	NC_021166.1	Ca_Kabuli_Chr07	9966991	GG	AA	AA	URR	101490434	transcription factor MYB114-like
SNP_48711_A_9974629	NC_021166.1	Ca_Kabuli_Chr07	9974629	TT	CC	CC	URR	101490756	uncharacterized LOC101490756
SNP_48713_A_9977513	NC_021166.1	Ca_Kabuli_Chr07	9977513	AA	CC	CC	INTERGENIC		
SNP_48714_A_9977557	NC_021166.1	Ca_Kabuli_Chr07	9977557	CC	TT	TT	INTERGENIC		
SNP_48715_A_9977606	NC_021166.1	Ca_Kabuli_Chr07	9977606	AA	TT	TT	INTERGENIC		
SNP_48716_A_9978658	NC_021166.1	Ca_Kabuli_Chr07	9978658	CC	GG	GG	DRR	101491714	protein NRT1/ PTR FAMILY 5.2-like
SNP_48717_A_9978686	NC_021166.1	Ca_Kabuli_Chr07	9978686	CC	TT	TT	DRR	101491714	protein NRT1/ PTR FAMILY 5.2-like
SNP_48718_A_9984378	NC_021166.1	Ca_Kabuli_Chr07	9984378	CC	TT	TT	INTERGENIC		
SNP_48719_A_9984683	NC_021166.1	Ca_Kabuli_Chr07	9984683	GG	AA	AA	INTERGENIC		
SNP_48720_A_9989730	NC_021166.1	Ca_Kabuli_Chr07	9989730	TT	AA	AA	DRR	101491082	ethylene-responsive transcription factor ERF039
SNP_48721_A_9990722	NC_021166.1	Ca_Kabuli_Chr07	9990722	CC	TT	TT	URR	101491082	ethylene-responsive transcription factor ERF039
SNP_48722_A_9990743	NC_021166.1	Ca_Kabuli_Chr07	9990743	AA	GG	GG	URR	101491082	ethylene-responsive transcription factor ERF039
SNP_48723_A_9992605	NC_021166.1	Ca_Kabuli_Chr07	9992605	CC	AA	AA	URR	101491082	ethylene-responsive transcription factor ERF039
SNP_48724_A_9992673	NC_021166.1	Ca_Kabuli_Chr07	9992673	GG	AA	AA	INTERGENIC		
SNP_48726_A_9993003	NC_021166.1	Ca_Kabuli_Chr07	9993003	TT	CC	CC	INTERGENIC		
SNP_48727_A_9993537	NC_021166.1	Ca_Kabuli_Chr07	9993537	CC	TT	TT	INTERGENIC		
SNP_48728_A_9994094	NC_021166.1	Ca_Kabuli_Chr07	9994094	AA	GG	GG	INTERGENIC		
SNP_48729_A_9994845	NC_021166.1	Ca_Kabuli_Chr07	9994845	CC	TT	TT	INTERGENIC		
SNP_48730_A_9997503	NC_021166.1	Ca_Kabuli_Chr07	9997503	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48731_A_10003287	NC_021166.1	Ca_Kabuli_Chr07	10003287	GG	AA	AA	SYNONYMOUS_CODING	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48732_A_10007054	NC_021166.1	Ca_Kabuli_Chr07	10007054	AA	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48733_A_10007060	NC_021166.1	Ca_Kabuli_Chr07	10007060	GG	AA	AA	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48734_A_10007072	NC_021166.1	Ca_Kabuli_Chr07	10007072	TT	AA	AA	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48735_A_10007073	NC_021166.1	Ca_Kabuli_Chr07	10007073	GG	AA	AA	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48736_A_10007091	NC_021166.1	Ca_Kabuli_Chr07	10007091	AA	GG	GG	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48737_A_10007102	NC_021166.1	Ca_Kabuli_Chr07	10007102	GG	AA	AA	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48738_A_10007119	NC_021166.1	Ca_Kabuli_Chr07	10007119	TT	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48739_A_10007121	NC_021166.1	Ca_Kabuli_Chr07	10007121	TT	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48740_A_10007122	NC_021166.1	Ca_Kabuli_Chr07	10007122	TT	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48742_A_10008368	NC_021166.1	Ca_Kabuli_Chr07	10008368	TT	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48743_A_10008377	NC_021166.1	Ca_Kabuli_Chr07	10008377	TT	CC	CC	URR	101491397	peroxisomal acyl-coenzyme A oxidase 1-like
SNP_48744_A_10009313	NC_021166.1	Ca_Kabuli_Chr07	10009313	GG	AA	AA	INTERGENIC		
SNP_48745_A_10011422	NC_021166.1	Ca_Kabuli_Chr07	10011422	GG	AA	AA	DRR	101492699	Unknown function
SNP_48746_A_10011462	NC_021166.1	Ca_Kabuli_Chr07	10011462	CC	AA	AA	DRR	101492699	Unknown function
SNP_48747_A_10011623	NC_021166.1	Ca_Kabuli_Chr07	10011623	TT	CC	CC	DRR	101492699	Unknown function
SNP_48748_A_10011694	NC_021166.1	Ca_Kabuli_Chr07	10011694	GG	AA	AA	DRR	101492699	Unknown function
SNP_48749_A_10011727	NC_021166.1	Ca_Kabuli_Chr07	10011727	GG	AA	AA	DRR	101492699	Unknown function
SNP_48750_A_10013529	NC_021166.1	Ca_Kabuli_Chr07	10013529	TT	CC	CC	URR	101492699	Unknown function
SNP_48751_A_10013906	NC_021166.1	Ca_Kabuli_Chr07	10013906	TT	CC	CC	URR	101492699	Unknown function
SNP_48753_A_10021356	NC_021166.1	Ca_Kabuli_Chr07	10021356	TT	AA	AA	URR	101491712	transcription factor MYB1R1
SNP_48754_A_10021427	NC_021166.1	Ca_Kabuli_Chr07	10021427	AA	GG	GG	URR	101491712	transcription factor MYB1R1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48755_A_10021623	NC_021166.1	Ca_Kabuli_Chr07	10021623	AA	GG	GG	URR	101491712	transcription factor MYB1R1
SNP_48756_A_10022612	NC_021166.1	Ca_Kabuli_Chr07	10022612	GG	AA	AA	INTERGENIC		
SNP_48757_A_10023413	NC_021166.1	Ca_Kabuli_Chr07	10023413	AA	GG	GG	INTERGENIC		
SNP_48758_A_10029370	NC_021166.1	Ca_Kabuli_Chr07	10029370	GG	AA	AA	INTRON	101493034	1-aminocyclopropane-1-carboxylate oxidase-like
SNP_48759_A_10029373	NC_021166.1	Ca_Kabuli_Chr07	10029373	GG	AA	AA	INTRON	101493034	1-aminocyclopropane-1-carboxylate oxidase-like
SNP_48760_A_10029832	NC_021166.1	Ca_Kabuli_Chr07	10029832	GG	AA	AA	INTRON	101493034	1-aminocyclopropane-1-carboxylate oxidase-like
SNP_48761_A_10029841	NC_021166.1	Ca_Kabuli_Chr07	10029841	CC	TT	TT	INTRON	101493034	1-aminocyclopropane-1-carboxylate oxidase-like
SNP_48762_A_10033050	NC_021166.1	Ca_Kabuli_Chr07	10033050	AA	CC	CC	INTRON	101493034	1-aminocyclopropane-1-carboxylate oxidase-like
SNP_48763_A_10046112	NC_021166.1	Ca_Kabuli_Chr07	10046112	TT	CC	CC	DRR	101492028	uncharacterized LOC101492028
SNP_48764_A_10046133	NC_021166.1	Ca_Kabuli_Chr07	10046133	CC	GG	GG	DRR	101492028	uncharacterized LOC101492028
SNP_48765_A_10046197	NC_021166.1	Ca_Kabuli_Chr07	10046197	TT	CC	CC	DRR	101492028	uncharacterized LOC101492028
SNP_48766_A_10046440	NC_021166.1	Ca_Kabuli_Chr07	10046440	AA	TT	TT	DRR	101492028	uncharacterized LOC101492028
SNP_48767_A_10046461	NC_021166.1	Ca_Kabuli_Chr07	10046461	CC	AA	AA	DRR	101492028	uncharacterized LOC101492028
SNP_48768_A_10046465	NC_021166.1	Ca_Kabuli_Chr07	10046465	TT	CC	CC	DRR	101492028	uncharacterized LOC101492028
SNP_48769_A_10048821	NC_021166.1	Ca_Kabuli_Chr07	10048821	GG	TT	TT	URR	101492028	uncharacterized LOC101492028
SNP_48770_A_10048978	NC_021166.1	Ca_Kabuli_Chr07	10048978	TT	AA	AA	URR	101492028	uncharacterized LOC101492028
SNP_48771_A_10054528	NC_021166.1	Ca_Kabuli_Chr07	10054528	CC	TT	TT	INTERGENIC		
SNP_48772_A_10054793	NC_021166.1	Ca_Kabuli_Chr07	10054793	AA	GG	GG	INTERGENIC		
SNP_48773_A_10055017	NC_021166.1	Ca_Kabuli_Chr07	10055017	CC	TT	TT	INTERGENIC		
SNP_48774_A_10056095	NC_021166.1	Ca_Kabuli_Chr07	10056095	AA	TT	TT	INTERGENIC		
SNP_48775_A_10056162	NC_021166.1	Ca_Kabuli_Chr07	10056162	CC	TT	TT	INTERGENIC		
SNP_48776_A_10056231	NC_021166.1	Ca_Kabuli_Chr07	10056231	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48777_A_10056431	NC_021166.1	Ca_Kabuli_Chr07	10056431	GG	TT	TT	INTERGENIC		
SNP_48778_A_10056450	NC_021166.1	Ca_Kabuli_Chr07	10056450	GG	AA	AA	INTERGENIC		
SNP_48779_A_10056491	NC_021166.1	Ca_Kabuli_Chr07	10056491	TT	AA	AA	INTERGENIC		
SNP_48780_A_10056492	NC_021166.1	Ca_Kabuli_Chr07	10056492	TT	CC	CC	INTERGENIC		
SNP_48781_A_10056682	NC_021166.1	Ca_Kabuli_Chr07	10056682	GG	CC	CC	INTERGENIC		
SNP_48783_A_10060560	NC_021166.1	Ca_Kabuli_Chr07	10060560	AA	GG	GG	INTERGENIC		
SNP_48784_A_10060561	NC_021166.1	Ca_Kabuli_Chr07	10060561	AA	TT	TT	INTERGENIC		
SNP_48785_A_10060569	NC_021166.1	Ca_Kabuli_Chr07	10060569	CC	TT	TT	INTERGENIC		
SNP_48786_A_10060571	NC_021166.1	Ca_Kabuli_Chr07	10060571	TT	CC	CC	INTERGENIC		
SNP_48787_A_10060927	NC_021166.1	Ca_Kabuli_Chr07	10060927	AA	GG	GG	INTERGENIC		
SNP_48788_A_10060934	NC_021166.1	Ca_Kabuli_Chr07	10060934	GG	AA	AA	INTERGENIC		
SNP_48789_A_10062576	NC_021166.1	Ca_Kabuli_Chr07	10062576	TT	AA	AA	INTERGENIC		
SNP_48790_A_10064098	NC_021166.1	Ca_Kabuli_Chr07	10064098	AA	GG	GG	INTERGENIC		
SNP_48791_A_10064239	NC_021166.1	Ca_Kabuli_Chr07	10064239	GG	TT	TT	INTERGENIC		
SNP_48792_A_10079393	NC_021166.1	Ca_Kabuli_Chr07	10079393	CC	TT	TT	SYNONYMOUS_CODING	101492697	glutamic acid-rich protein
SNP_48793_A_10079961	NC_021166.1	Ca_Kabuli_Chr07	10079961	AA	GG	GG	NON_SYNONYMOUS_CODING	101492697	glutamic acid-rich protein
SNP_48794_A_10081330	NC_021166.1	Ca_Kabuli_Chr07	10081330	AA	GG	GG	URR	101492697	glutamic acid-rich protein
SNP_48796_A_10081358	NC_021166.1	Ca_Kabuli_Chr07	10081358	AA	GG	GG	URR	101492697	glutamic acid-rich protein
SNP_48797_A_10081604	NC_021166.1	Ca_Kabuli_Chr07	10081604	AA	TT	TT	URR	101492697	glutamic acid-rich protein
SNP_48798_A_10085299	NC_021166.1	Ca_Kabuli_Chr07	10085299	CC	TT	TT	URR	101493033	putative dual specificity protein phosphatase DSP8
SNP_48799_A_10085311	NC_021166.1	Ca_Kabuli_Chr07	10085311	TT	CC	CC	URR	101493033	putative dual specificity protein phosphatase DSP8
SNP_48800_A_10085517	NC_021166.1	Ca_Kabuli_Chr07	10085517	TT	AA	AA	URR	101493033	putative dual specificity protein phosphatase DSP8

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48801_A_10086282	NC_021166.1	Ca_Kabuli_Chr07	10086282	GG	AA	AA	INTERGENIC		
SNP_48802_A_10087229	NC_021166.1	Ca_Kabuli_Chr07	10087229	TT	CC	CC	INTERGENIC		
SNP_48803_A_10087577	NC_021166.1	Ca_Kabuli_Chr07	10087577	AA	GG	GG	INTERGENIC		
SNP_48804_A_10087606	NC_021166.1	Ca_Kabuli_Chr07	10087606	CC	TT	TT	INTERGENIC		
SNP_48805_A_10094055	NC_021166.1	Ca_Kabuli_Chr07	10094055	CC	TT	TT	INTERGENIC		
SNP_48806_A_10095171	NC_021166.1	Ca_Kabuli_Chr07	10095171	CC	TT	TT	DRR	101493680	nudix hydrolase 8
SNP_48807_A_10095204	NC_021166.1	Ca_Kabuli_Chr07	10095204	AA	TT	TT	URR	101493359	deSI-like protein At4g17486
SNP_48808_A_10095247	NC_021166.1	Ca_Kabuli_Chr07	10095247	TT	CC	CC	URR	101493359	deSI-like protein At4g17486
SNP_48809_A_10097250	NC_021166.1	Ca_Kabuli_Chr07	10097250	TT	CC	CC	INTRON	101493680	nudix hydrolase 8
SNP_48810_A_10098279	NC_021166.1	Ca_Kabuli_Chr07	10098279	CC	TT	TT	INTERGENIC		
SNP_48811_A_10099387	NC_021166.1	Ca_Kabuli_Chr07	10099387	GG	TT	TT	URR	101493680	nudix hydrolase 8
SNP_48812_A_10099854	NC_021166.1	Ca_Kabuli_Chr07	10099854	TT	AA	AA	URR	101493680	nudix hydrolase 8
SNP_48813_A_10099878	NC_021166.1	Ca_Kabuli_Chr07	10099878	AA	GG	GG	URR	101493680	nudix hydrolase 8
SNP_48814_A_10102147	NC_021166.1	Ca_Kabuli_Chr07	10102147	TT	CC	CC	INTERGENIC		
SNP_48815_A_10102453	NC_021166.1	Ca_Kabuli_Chr07	10102453	AA	GG	GG	INTERGENIC		
SNP_48816_A_10103070	NC_021166.1	Ca_Kabuli_Chr07	10103070	TT	AA	AA	INTERGENIC		
SNP_48817_A_10104174	NC_021166.1	Ca_Kabuli_Chr07	10104174	GG	CC	CC	INTERGENIC		
SNP_48818_A_10104495	NC_021166.1	Ca_Kabuli_Chr07	10104495	TT	CC	CC	INTERGENIC		
SNP_48819_A_10104504	NC_021166.1	Ca_Kabuli_Chr07	10104504	TT	AA	AA	INTERGENIC		
SNP_48820_A_10104505	NC_021166.1	Ca_Kabuli_Chr07	10104505	AA	TT	TT	INTERGENIC		
SNP_48821_A_10104515	NC_021166.1	Ca_Kabuli_Chr07	10104515	GG	TT	TT	INTERGENIC		
SNP_48822_A_10106688	NC_021166.1	Ca_Kabuli_Chr07	10106688	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48823_A_10106916	NC_021166.1	Ca_Kabuli_Chr07	10106916	CC	TT	TT	INTERGENIC		
SNP_48824_A_10109379	NC_021166.1	Ca_Kabuli_Chr07	10109379	CC	AA	AA	INTERGENIC		
SNP_48827_A_10113993	NC_021166.1	Ca_Kabuli_Chr07	10113993	CC	TT	TT	DRR	101494217	ethylene-responsive transcription factor 5-like
SNP_48828_A_10115618	NC_021166.1	Ca_Kabuli_Chr07	10115618	TT	GG	GG	NON_SYNONYMOUS_CODING	101494217	ethylene-responsive transcription factor 5-like
SNP_48829_A_10115908	NC_021166.1	Ca_Kabuli_Chr07	10115908	CC	AA	AA	URR	101494217	ethylene-responsive transcription factor 5-like
SNP_48830_A_10118761	NC_021166.1	Ca_Kabuli_Chr07	10118761	GG	AA	AA	INTERGENIC		
SNP_48831_A_10118806	NC_021166.1	Ca_Kabuli_Chr07	10118806	TT	GG	GG	INTERGENIC		
SNP_48833_A_10119025	NC_021166.1	Ca_Kabuli_Chr07	10119025	TT	GG	GG	INTERGENIC		
SNP_48834_A_10121232	NC_021166.1	Ca_Kabuli_Chr07	10121232	GG	AA	AA	INTERGENIC		
SNP_48835_A_10121257	NC_021166.1	Ca_Kabuli_Chr07	10121257	AA	CC	CC	INTERGENIC		
SNP_48836_A_10123479	NC_021166.1	Ca_Kabuli_Chr07	10123479	AA	TT	TT	INTERGENIC		
SNP_48837_A_10127704	NC_021166.1	Ca_Kabuli_Chr07	10127704	CC	TT	TT	INTERGENIC		
SNP_48838_A_10127718	NC_021166.1	Ca_Kabuli_Chr07	10127718	AA	GG	GG	INTERGENIC		
SNP_48839_A_10127743	NC_021166.1	Ca_Kabuli_Chr07	10127743	AA	TT	TT	INTERGENIC		
SNP_48840_A_10127768	NC_021166.1	Ca_Kabuli_Chr07	10127768	AA	GG	GG	INTERGENIC		
SNP_48841_A_10129710	NC_021166.1	Ca_Kabuli_Chr07	10129710	TT	AA	AA	INTERGENIC		
SNP_48843_A_10130452	NC_021166.1	Ca_Kabuli_Chr07	10130452	GG	AA	AA	INTERGENIC		
SNP_48844_A_10130479	NC_021166.1	Ca_Kabuli_Chr07	10130479	GG	AA	AA	INTERGENIC		
SNP_48845_A_10134299	NC_021166.1	Ca_Kabuli_Chr07	10134299	CC	AA	AA	INTERGENIC		
SNP_48846_A_10134321	NC_021166.1	Ca_Kabuli_Chr07	10134321	TT	CC	CC	INTERGENIC		
SNP_48848_A_10140972	NC_021166.1	Ca_Kabuli_Chr07	10140972	GG	AA	AA	INTERGENIC		
SNP_48849_A_10140998	NC_021166.1	Ca_Kabuli_Chr07	10140998	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48850_A_10142680	NC_021166.1	Ca_Kabuli_Chr07	10142680	CC	TT	TT	INTERGENIC		
SNP_48851_A_10144061	NC_021166.1	Ca_Kabuli_Chr07	10144061	TT	GG	GG	INTERGENIC		
SNP_48852_A_10144232	NC_021166.1	Ca_Kabuli_Chr07	10144232	GG	TT	TT	INTERGENIC		
SNP_48853_A_10144256	NC_021166.1	Ca_Kabuli_Chr07	10144256	CC	TT	TT	INTERGENIC		
SNP_48854_A_10144313	NC_021166.1	Ca_Kabuli_Chr07	10144313	TT	GG	GG	INTERGENIC		
SNP_48855_A_10144396	NC_021166.1	Ca_Kabuli_Chr07	10144396	TT	GG	GG	INTERGENIC		
SNP_48856_A_10145391	NC_021166.1	Ca_Kabuli_Chr07	10145391	CC	TT	TT	INTERGENIC		
SNP_48857_A_10145444	NC_021166.1	Ca_Kabuli_Chr07	10145444	AA	GG	GG	INTERGENIC		
SNP_48858_A_10145452	NC_021166.1	Ca_Kabuli_Chr07	10145452	TT	AA	AA	INTERGENIC		
SNP_48859_A_10146081	NC_021166.1	Ca_Kabuli_Chr07	10146081	CC	AA	AA	INTERGENIC		
SNP_48860_A_10146098	NC_021166.1	Ca_Kabuli_Chr07	10146098	TT	AA	AA	INTERGENIC		
SNP_48861_A_10146141	NC_021166.1	Ca_Kabuli_Chr07	10146141	AA	GG	GG	INTERGENIC		
SNP_48862_A_10146380	NC_021166.1	Ca_Kabuli_Chr07	10146380	GG	AA	AA	INTERGENIC		
SNP_48863_A_10146404	NC_021166.1	Ca_Kabuli_Chr07	10146404	TT	AA	AA	INTERGENIC		
SNP_48864_A_10146438	NC_021166.1	Ca_Kabuli_Chr07	10146438	CC	TT	TT	INTERGENIC		
SNP_48865_A_10153048	NC_021166.1	Ca_Kabuli_Chr07	10153048	CC	TT	TT	URR	101494843	ubiquitin carboxyl-terminal hydrolase isozyme L3
SNP_48866_A_10156606	NC_021166.1	Ca_Kabuli_Chr07	10156606	AA	GG	GG	INTRON	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48867_A_10158547	NC_021166.1	Ca_Kabuli_Chr07	10158547	AA	GG	GG	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48868_A_10158744	NC_021166.1	Ca_Kabuli_Chr07	10158744	TT	CC	CC	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48869_A_10158745	NC_021166.1	Ca_Kabuli_Chr07	10158745	GG	AA	AA	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48870_A_10158903	NC_021166.1	Ca_Kabuli_Chr07	10158903	TT	AA	AA	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48871_A_10158959	NC_021166.1	Ca_Kabuli_Chr07	10158959	CC	AA	AA	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48872_A_10159079	NC_021166.1	Ca_Kabuli_Chr07	10159079	CC	AA	AA	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48873_A_10159095	NC_021166.1	Ca_Kabuli_Chr07	10159095	AA	GG	GG	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48874_A_10159096	NC_021166.1	Ca_Kabuli_Chr07	10159096	TT	AA	AA	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48875_A_10159214	NC_021166.1	Ca_Kabuli_Chr07	10159214	TT	CC	CC	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48876_A_10159399	NC_021166.1	Ca_Kabuli_Chr07	10159399	TT	CC	CC	URR	101495172	methylglutaconyl-CoA hydratase, mitochondrial
SNP_48877_A_10161119	NC_021166.1	Ca_Kabuli_Chr07	10161119	AA	CC	CC	INTERGENIC		
SNP_48878_A_10161130	NC_021166.1	Ca_Kabuli_Chr07	10161130	GG	AA	AA	INTERGENIC		
SNP_48879_A_10161142	NC_021166.1	Ca_Kabuli_Chr07	10161142	TT	CC	CC	INTERGENIC		
SNP_48880_A_10173432	NC_021166.1	Ca_Kabuli_Chr07	10173432	TT	GG	GG	INTERGENIC		
SNP_48881_A_10186162	NC_021166.1	Ca_Kabuli_Chr07	10186162	CC	TT	TT	INTERGENIC		
SNP_48882_A_10189629	NC_021166.1	Ca_Kabuli_Chr07	10189629	TT	CC	CC	INTERGENIC		
SNP_48883_A_10189694	NC_021166.1	Ca_Kabuli_Chr07	10189694	CC	TT	TT	INTERGENIC		
SNP_48885_A_10192784	NC_021166.1	Ca_Kabuli_Chr07	10192784	GG	AA	AA	INTERGENIC		
SNP_48886_A_10192788	NC_021166.1	Ca_Kabuli_Chr07	10192788	CC	TT	TT	INTERGENIC		
SNP_48887_A_10193706	NC_021166.1	Ca_Kabuli_Chr07	10193706	CC	TT	TT	INTERGENIC		
SNP_48888_A_10193717	NC_021166.1	Ca_Kabuli_Chr07	10193717	CC	TT	TT	INTERGENIC		
SNP_48889_A_10193730	NC_021166.1	Ca_Kabuli_Chr07	10193730	CC	TT	TT	INTERGENIC		
SNP_48890_A_10193993	NC_021166.1	Ca_Kabuli_Chr07	10193993	AA	GG	GG	INTERGENIC		
SNP_48892_A_10194021	NC_021166.1	Ca_Kabuli_Chr07	10194021	CC	TT	TT	INTERGENIC		
SNP_48893_A_10200912	NC_021166.1	Ca_Kabuli_Chr07	10200912	TT	CC	CC	URR	101495709	phospholipase A1-1beta2, chloroplastic-like
SNP_48894_A_10200966	NC_021166.1	Ca_Kabuli_Chr07	10200966	GG	AA	AA	URR	101495709	phospholipase A1-1beta2, chloroplastic-like
SNP_48895_A_10201438	NC_021166.1	Ca_Kabuli_Chr07	10201438	GG	AA	AA	URR	101495709	phospholipase A1-1beta2, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48897_A_10204305	NC_021166.1	Ca_Kabuli_Chr07	10204305	TT	AA	AA	INTERGENIC		
SNP_48898_A_10204322	NC_021166.1	Ca_Kabuli_Chr07	10204322	TT	AA	AA	INTERGENIC		
SNP_48899_A_10207546	NC_021166.1	Ca_Kabuli_Chr07	10207546	AA	GG	GG	INTERGENIC		
SNP_48901_A_10209834	NC_021166.1	Ca_Kabuli_Chr07	10209834	AA	TT	TT	URR	101496032	pentatricopeptide repeat-containing protein At4g16835, mitochondrial
SNP_48902_A_10211323	NC_021166.1	Ca_Kabuli_Chr07	10211323	GG	AA	AA	INTERGENIC		
SNP_48905_A_10214436	NC_021166.1	Ca_Kabuli_Chr07	10214436	GG	AA	AA	URR	101496365	ras-related protein RABD2c-like
SNP_48906_A_10214443	NC_021166.1	Ca_Kabuli_Chr07	10214443	TT	CC	CC	URR	101496365	ras-related protein RABD2c-like
SNP_48907_A_10214461	NC_021166.1	Ca_Kabuli_Chr07	10214461	AA	CC	CC	URR	101496365	ras-related protein RABD2c-like
SNP_48908_A_10214462	NC_021166.1	Ca_Kabuli_Chr07	10214462	AA	GG	GG	URR	101496365	ras-related protein RABD2c-like
SNP_48909_A_10214492	NC_021166.1	Ca_Kabuli_Chr07	10214492	TT	CC	CC	URR	101496365	ras-related protein RABD2c-like
SNP_48910_A_10214512	NC_021166.1	Ca_Kabuli_Chr07	10214512	GG	AA	AA	URR	101496365	ras-related protein RABD2c-like
SNP_48911_A_10214691	NC_021166.1	Ca_Kabuli_Chr07	10214691	GG	AA	AA	URR	101496365	ras-related protein RABD2c-like
SNP_48912_A_10218314	NC_021166.1	Ca_Kabuli_Chr07	10218314	CC	TT	TT	INTRON	101496696	putative glycerol-3-phosphate transporter 4
SNP_48913_A_10218319	NC_021166.1	Ca_Kabuli_Chr07	10218319	TT	GG	GG	INTRON	101496696	putative glycerol-3-phosphate transporter 4
SNP_48914_A_10218676	NC_021166.1	Ca_Kabuli_Chr07	10218676	CC	TT	TT	INTRON	101496696	putative glycerol-3-phosphate transporter 4
SNP_48915_A_10220327	NC_021166.1	Ca_Kabuli_Chr07	10220327	AA	CC	CC	URR	101496696	putative glycerol-3-phosphate transporter 4
SNP_48916_A_10220408	NC_021166.1	Ca_Kabuli_Chr07	10220408	TT	CC	CC	URR	101496696	putative glycerol-3-phosphate transporter 4
SNP_48917_A_10220410	NC_021166.1	Ca_Kabuli_Chr07	10220410	TT	CC	CC	URR	101496696	putative glycerol-3-phosphate transporter 4
SNP_48918_A_10220754	NC_021166.1	Ca_Kabuli_Chr07	10220754	AA	GG	GG	URR	101496696	putative glycerol-3-phosphate transporter 4
SNP_48919_A_10220799	NC_021166.1	Ca_Kabuli_Chr07	10220799	AA	GG	GG	URR	101496696	putative glycerol-3-phosphate transporter 4
SNP_48920_A_10221994	NC_021166.1	Ca_Kabuli_Chr07	10221994	GG	AA	AA	INTERGENIC		
SNP_48921_A_10222393	NC_021166.1	Ca_Kabuli_Chr07	10222393	TT	CC	CC	DRR	101497009	vesicle-associated protein 2-1-like

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SNP_48922_A_10222543	NC_021166.1	Ca_Kabuli_Chr07	10222543	TT	CC	CC	DRR	101497009	vesicle-associated protein 2-1-like
SNP_48923_A_10224256	NC_021166.1	Ca_Kabuli_Chr07	10224256	GG	AA	AA	INTRON	101497009	vesicle-associated protein 2-1-like
SNP_48925_A_10226259	NC_021166.1	Ca_Kabuli_Chr07	10226259	CC	TT	TT	INTRON	101497009	vesicle-associated protein 2-1-like
SNP_48926_A_10227292	NC_021166.1	Ca_Kabuli_Chr07	10227292	TT	CC	CC	INTRON	101497009	vesicle-associated protein 2-1-like
SNP_48927_A_10229759	NC_021166.1	Ca_Kabuli_Chr07	10229759	GG	AA	AA	DRR	101493682	bax inhibitor 1-like
SNP_48928_A_10229910	NC_021166.1	Ca_Kabuli_Chr07	10229910	GG	AA	AA	DRR	101493682	bax inhibitor 1-like
SNP_48929_A_10229930	NC_021166.1	Ca_Kabuli_Chr07	10229930	TT	CC	CC	DRR	101493682	bax inhibitor 1-like
SNP_48930_A_10230029	NC_021166.1	Ca_Kabuli_Chr07	10230029	CC	TT	TT	DRR	101493682	bax inhibitor 1-like
SNP_48931_A_10230083	NC_021166.1	Ca_Kabuli_Chr07	10230083	AA	CC	CC	DRR	101493682	bax inhibitor 1-like
SNP_48932_A_10230099	NC_021166.1	Ca_Kabuli_Chr07	10230099	GG	AA	AA	DRR	101493682	bax inhibitor 1-like
SNP_48933_A_10230194	NC_021166.1	Ca_Kabuli_Chr07	10230194	AA	GG	GG	DRR	101493682	bax inhibitor 1-like
SNP_48934_A_10232520	NC_021166.1	Ca_Kabuli_Chr07	10232520	GG	AA	AA	INTERGENIC		
SNP_48935_A_10233678	NC_021166.1	Ca_Kabuli_Chr07	10233678	CC	TT	TT	URR	101493682	bax inhibitor 1-like
SNP_48936_A_10233692	NC_021166.1	Ca_Kabuli_Chr07	10233692	GG	AA	AA	URR	101493682	bax inhibitor 1-like
SNP_48937_A_10233759	NC_021166.1	Ca_Kabuli_Chr07	10233759	CC	TT	TT	URR	101493682	bax inhibitor 1-like
SNP_48938_A_10238806	NC_021166.1	Ca_Kabuli_Chr07	10238806	CC	AA	AA	INTERGENIC		
SNP_48939_A_10239073	NC_021166.1	Ca_Kabuli_Chr07	10239073	CC	TT	TT	INTERGENIC		
SNP_48940_A_10240989	NC_021166.1	Ca_Kabuli_Chr07	10240989	TT	CC	CC	INTERGENIC		
SNP_48941_A_10243400	NC_021166.1	Ca_Kabuli_Chr07	10243400	AA	GG	GG	INTERGENIC		
SNP_48942_A_10243420	NC_021166.1	Ca_Kabuli_Chr07	10243420	CC	TT	TT	INTERGENIC		
SNP_48943_A_10247414	NC_021166.1	Ca_Kabuli_Chr07	10247414	AA	GG	GG	INTERGENIC		
SNP_48945_A_10248323	NC_021166.1	Ca_Kabuli_Chr07	10248323	TT	CC	CC	DRR	101497335	GATA transcription factor 26-like

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SNP_48946_A_10249237	NC_021166.1	Ca_Kabuli_Chr07	10249237	AA	TT	TT	URR	101497335	GATA transcription factor 26-like
SNP_48947_A_10251101	NC_021166.1	Ca_Kabuli_Chr07	10251101	AA	TT	TT	INTRON	101497335	GATA transcription factor 26-like
SNP_48948_A_10252890	NC_021166.1	Ca_Kabuli_Chr07	10252890	CC	TT	TT	INTRON	101497335	GATA transcription factor 26-like
SNP_48949_A_10256571	NC_021166.1	Ca_Kabuli_Chr07	10256571	CC	TT	TT	URR	101497335	GATA transcription factor 26-like
SNP_48950_A_10258494	NC_021166.1	Ca_Kabuli_Chr07	10258494	CC	TT	TT	INTERGENIC		
SNP_48951_A_10258523	NC_021166.1	Ca_Kabuli_Chr07	10258523	TT	AA	AA	INTERGENIC		
SNP_48952_A_10258753	NC_021166.1	Ca_Kabuli_Chr07	10258753	AA	CC	CC	INTERGENIC		
SNP_48953_A_10258933	NC_021166.1	Ca_Kabuli_Chr07	10258933	GG	TT	TT	INTERGENIC		
SNP_48954_A_10258951	NC_021166.1	Ca_Kabuli_Chr07	10258951	TT	GG	GG	INTERGENIC		
SNP_48955_A_10259525	NC_021166.1	Ca_Kabuli_Chr07	10259525	AA	GG	GG	INTERGENIC		
SNP_48956_A_10260152	NC_021166.1	Ca_Kabuli_Chr07	10260152	TT	AA	AA	INTERGENIC		
SNP_48958_A_10260595	NC_021166.1	Ca_Kabuli_Chr07	10260595	CC	TT	TT	INTERGENIC		
SNP_48959_A_10274121	NC_021166.1	Ca_Kabuli_Chr07	10274121	GG	AA	AA	INTERGENIC		
SNP_48960_A_10289888	NC_021166.1	Ca_Kabuli_Chr07	10289888	GG	AA	AA	DRR	101498323	uncharacterized LOC101498323
SNP_48961_A_10289893	NC_021166.1	Ca_Kabuli_Chr07	10289893	CC	AA	AA	DRR	101498323	uncharacterized LOC101498323
SNP_48962_A_10289901	NC_021166.1	Ca_Kabuli_Chr07	10289901	GG	AA	AA	DRR	101498323	uncharacterized LOC101498323
SNP_48964_A_10297547	NC_021166.1	Ca_Kabuli_Chr07	10297547	CC	TT	TT	URR	101498663	glutamate dehydrogenase A-like
SNP_48965_A_10297550	NC_021166.1	Ca_Kabuli_Chr07	10297550	TT	GG	GG	URR	101498663	glutamate dehydrogenase A-like
SNP_48966_A_10297748	NC_021166.1	Ca_Kabuli_Chr07	10297748	GG	AA	AA	URR	101498663	glutamate dehydrogenase A-like
SNP_48967_A_10297768	NC_021166.1	Ca_Kabuli_Chr07	10297768	AA	GG	GG	URR	101498663	glutamate dehydrogenase A-like
SNP_48968_A_10298640	NC_021166.1	Ca_Kabuli_Chr07	10298640	CC	TT	TT	URR	101498663	glutamate dehydrogenase A-like
SNP_48969_A_10298644	NC_021166.1	Ca_Kabuli_Chr07	10298644	GG	AA	AA	URR	101498663	glutamate dehydrogenase A-like

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SNP_48970_A_10298726	NC_021166.1	Ca_Kabuli_Chr07	10298726	CC	TT	TT	URR	101498663	glutamate dehydrogenase A-like
SNP_48971_A_10298735	NC_021166.1	Ca_Kabuli_Chr07	10298735	AA	CC	CC	URR	101498663	glutamate dehydrogenase A-like
SNP_48972_A_10302256	NC_021166.1	Ca_Kabuli_Chr07	10302256	TT	GG	GG	INTERGENIC		
SNP_48973_A_10308022	NC_021166.1	Ca_Kabuli_Chr07	10308022	CC	TT	TT	DRR	101498987	uncharacterized LOC101498987
SNP_48974_A_10313186	NC_021166.1	Ca_Kabuli_Chr07	10313186	TT	CC	CC	INTRON	101498987	uncharacterized LOC101498987
SNP_48976_A_10317447	NC_021166.1	Ca_Kabuli_Chr07	10317447	GG	AA	AA	INTRON	101498987	uncharacterized LOC101498987
SNP_48977_A_10324764	NC_021166.1	Ca_Kabuli_Chr07	10324764	GG	AA	AA	INTRON	101498987	uncharacterized LOC101498987
SNP_48978_A_10325896	NC_021166.1	Ca_Kabuli_Chr07	10325896	GG	CC	CC	INTRON	101498987	uncharacterized LOC101498987
SNP_48979_A_10326759	NC_021166.1	Ca_Kabuli_Chr07	10326759	AA	GG	GG	INTRON	101498987	uncharacterized LOC101498987
SNP_48981_A_10340265	NC_021166.1	Ca_Kabuli_Chr07	10340265	AA	GG	GG	URR	101498987	uncharacterized LOC101498987
SNP_48982_A_10340305	NC_021166.1	Ca_Kabuli_Chr07	10340305	GG	AA	AA	URR	101498987	uncharacterized LOC101498987
SNP_48984_A_10346852	NC_021166.1	Ca_Kabuli_Chr07	10346852	CC	TT	TT	INTRON	101499522	(S)-ureidoglycine aminohydrolase
SNP_48986_A_10355815	NC_021166.1	Ca_Kabuli_Chr07	10355815	TT	AA	AA	INTERGENIC		
SNP_48987_A_10361670	NC_021166.1	Ca_Kabuli_Chr07	10361670	CC	TT	TT	SYNONYMOUS_CODING	101499822	cationic amino acid transporter 6, chloroplastic-like
SNP_48988_A_10365341	NC_021166.1	Ca_Kabuli_Chr07	10365341	AA	GG	GG	URR	101499822	cationic amino acid transporter 6, chloroplastic-like
SNP_48989_A_10365410	NC_021166.1	Ca_Kabuli_Chr07	10365410	TT	GG	GG	URR	101499822	cationic amino acid transporter 6, chloroplastic-like
SNP_48990_A_10365427	NC_021166.1	Ca_Kabuli_Chr07	10365427	AA	GG	GG	URR	101499822	cationic amino acid transporter 6, chloroplastic-like
SNP_48991_A_10365799	NC_021166.1	Ca_Kabuli_Chr07	10365799	AA	CC	CC	URR	101499822	cationic amino acid transporter 6, chloroplastic-like
SNP_48992_A_10367953	NC_021166.1	Ca_Kabuli_Chr07	10367953	TT	AA	AA	INTERGENIC		
SNP_48993_A_10368626	NC_021166.1	Ca_Kabuli_Chr07	10368626	AA	TT	TT	INTERGENIC		
SNP_48994_A_10369025	NC_021166.1	Ca_Kabuli_Chr07	10369025	CC	TT	TT	INTERGENIC		
SNP_48996_A_10389367	NC_021166.1	Ca_Kabuli_Chr07	10389367	AA	GG	GG	DRR	101500472	serine/threonine-protein kinase SAPK3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_48997_A_10389450	NC_021166.1	Ca_Kabuli_Chr07	10389450	AA	GG	GG	DRR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_48998_A_10389478	NC_021166.1	Ca_Kabuli_Chr07	10389478	TT	GG	GG	DRR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_48999_A_10391691	NC_021166.1	Ca_Kabuli_Chr07	10391691	GG	AA	AA	INTERGENIC		
SNP_49000_A_10391706	NC_021166.1	Ca_Kabuli_Chr07	10391706	CC	TT	TT	INTERGENIC		
SNP_49001_A_10391899	NC_021166.1	Ca_Kabuli_Chr07	10391899	GG	AA	AA	INTERGENIC		
SNP_49002_A_10393029	NC_021166.1	Ca_Kabuli_Chr07	10393029	GG	CC	CC	INTERGENIC		
SNP_49004_A_10393482	NC_021166.1	Ca_Kabuli_Chr07	10393482	GG	CC	CC	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49005_A_10393810	NC_021166.1	Ca_Kabuli_Chr07	10393810	CC	TT	TT	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49006_A_10393851	NC_021166.1	Ca_Kabuli_Chr07	10393851	CC	TT	TT	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49007_A_10393870	NC_021166.1	Ca_Kabuli_Chr07	10393870	TT	CC	CC	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49008_A_10393874	NC_021166.1	Ca_Kabuli_Chr07	10393874	CC	TT	TT	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49009_A_10394778	NC_021166.1	Ca_Kabuli_Chr07	10394778	TT	CC	CC	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49010_A_10394779	NC_021166.1	Ca_Kabuli_Chr07	10394779	GG	AA	AA	URR	101500472	serine/threonine-protein kinase SAPK3-like
SNP_49011_A_10395095	NC_021166.1	Ca_Kabuli_Chr07	10395095	GG	AA	AA	INTERGENIC		
SNP_49012_A_10395532	NC_021166.1	Ca_Kabuli_Chr07	10395532	CC	AA	AA	INTERGENIC		
SNP_49014_A_10395637	NC_021166.1	Ca_Kabuli_Chr07	10395637	TT	GG	GG	INTERGENIC		
SNP_49016_A_10396700	NC_021166.1	Ca_Kabuli_Chr07	10396700	GG	CC	CC	INTERGENIC		
SNP_49017_A_10399889	NC_021166.1	Ca_Kabuli_Chr07	10399889	CC	GG	GG	INTERGENIC		
SNP_49018_A_10402958	NC_021166.1	Ca_Kabuli_Chr07	10402958	TT	GG	GG	INTERGENIC		
SNP_49019_A_10404160	NC_021166.1	Ca_Kabuli_Chr07	10404160	GG	TT	TT	DRR	101500790	calcineurin B-like protein 1
SNP_49021_A_10408838	NC_021166.1	Ca_Kabuli_Chr07	10408838	TT	CC	CC	URR	101500790	calcineurin B-like protein 1
SNP_49022_A_10409297	NC_021166.1	Ca_Kabuli_Chr07	10409297	GG	AA	AA	DRR	101501109	coiled-coil domain-containing protein 97

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49023_A_10411338	NC_021166.1	Ca_Kabuli_Chr07	10411338	GG		TT	TT	INTERGENIC		
SNP_49024_A_10413327	NC_021166.1	Ca_Kabuli_Chr07	10413327	GG		TT	TT	INTRON	101501109	coiled-coil domain-containing protein 97
SNP_49026_A_10416277	NC_021166.1	Ca_Kabuli_Chr07	10416277	GG		AA	AA	INTERGENIC		
SNP_49027_A_10416300	NC_021166.1	Ca_Kabuli_Chr07	10416300	GG		AA	AA	INTERGENIC		
SNP_49028_A_10420796	NC_021166.1	Ca_Kabuli_Chr07	10420796	TT		CC	CC	SYNONYMOUS_CODING	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49029_A_10421133	NC_021166.1	Ca_Kabuli_Chr07	10421133	AA		GG	GG	INTRON	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49030_A_10423901	NC_021166.1	Ca_Kabuli_Chr07	10423901	TT		GG	GG	URR	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49031_A_10423908	NC_021166.1	Ca_Kabuli_Chr07	10423908	AA		CC	CC	URR	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49032_A_10423919	NC_021166.1	Ca_Kabuli_Chr07	10423919	AA		TT	TT	URR	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49034_A_10424215	NC_021166.1	Ca_Kabuli_Chr07	10424215	TT		CC	CC	URR	101501642	pentatricopeptide repeat-containing protein At4g17616
SNP_49035_A_10432943	NC_021166.1	Ca_Kabuli_Chr07	10432943	TT		GG	GG	INTERGENIC		
SNP_49036_A_10432960	NC_021166.1	Ca_Kabuli_Chr07	10432960	TT		AA	AA	INTERGENIC		
SNP_49037_A_10433500	NC_021166.1	Ca_Kabuli_Chr07	10433500	CC		TT	TT	DRR	101501953	casein kinase II subunit beta-like
SNP_49038_A_10433501	NC_021166.1	Ca_Kabuli_Chr07	10433501	TT		CC	CC	DRR	101501953	casein kinase II subunit beta-like
SNP_49039_A_10433916	NC_021166.1	Ca_Kabuli_Chr07	10433916	CC		GG	GG	DRR	101501953	casein kinase II subunit beta-like
SNP_49040_A_10433942	NC_021166.1	Ca_Kabuli_Chr07	10433942	TT		CC	CC	DRR	101501953	casein kinase II subunit beta-like
SNP_49041_A_10433970	NC_021166.1	Ca_Kabuli_Chr07	10433970	CC		AA	AA	DRR	101501953	casein kinase II subunit beta-like
SNP_49042_A_10434031	NC_021166.1	Ca_Kabuli_Chr07	10434031	CC		TT	TT	DRR	101501953	casein kinase II subunit beta-like
SNP_49043_A_10434058	NC_021166.1	Ca_Kabuli_Chr07	10434058	CC		TT	TT	DRR	101501953	casein kinase II subunit beta-like
SNP_49044_A_10434059	NC_021166.1	Ca_Kabuli_Chr07	10434059	CC		GG	GG	DRR	101501953	casein kinase II subunit beta-like
SNP_49046_A_10441535	NC_021166.1	Ca_Kabuli_Chr07	10441535	GG		TT	TT	INTERGENIC		
SNP_49047_A_10441536	NC_021166.1	Ca_Kabuli_Chr07	10441536	CC		AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49048_A_10443051	NC_021166.1	Ca_Kabuli_Chr07	10443051	CC	AA	AA	URR	101502798	60S ribosomal protein L37a
SNP_49049_A_10443064	NC_021166.1	Ca_Kabuli_Chr07	10443064	TT	CC	CC	URR	101502798	60S ribosomal protein L37a
SNP_49050_A_10443194	NC_021166.1	Ca_Kabuli_Chr07	10443194	AA	TT	TT	URR	101502798	60S ribosomal protein L37a
SNP_49051_A_10443214	NC_021166.1	Ca_Kabuli_Chr07	10443214	AA	CC	CC	URR	101502798	60S ribosomal protein L37a
SNP_49052_A_10443747	NC_021166.1	Ca_Kabuli_Chr07	10443747	GG	AA	AA	URR	101502798	60S ribosomal protein L37a
SNP_49053_A_10444172	NC_021166.1	Ca_Kabuli_Chr07	10444172	GG	AA	AA	INTERGENIC		
SNP_49054_A_10446292	NC_021166.1	Ca_Kabuli_Chr07	10446292	CC	AA	AA	INTERGENIC		
SNP_49055_A_10446775	NC_021166.1	Ca_Kabuli_Chr07	10446775	AA	CC	CC	DRR	101503335	uncharacterized LOC101503335
SNP_49056_A_10446808	NC_021166.1	Ca_Kabuli_Chr07	10446808	AA	CC	CC	DRR	101503335	uncharacterized LOC101503335
SNP_49057_A_10446821	NC_021166.1	Ca_Kabuli_Chr07	10446821	CC	TT	TT	DRR	101503335	uncharacterized LOC101503335
SNP_49058_A_10446826	NC_021166.1	Ca_Kabuli_Chr07	10446826	AA	CC	CC	DRR	101503335	uncharacterized LOC101503335
SNP_49059_A_10446830	NC_021166.1	Ca_Kabuli_Chr07	10446830	GG	AA	AA	DRR	101503335	uncharacterized LOC101503335
SNP_49061_A_10448360	NC_021166.1	Ca_Kabuli_Chr07	10448360	TT	AA	AA	URR	101503335	uncharacterized LOC101503335
SNP_49062_A_10448587	NC_021166.1	Ca_Kabuli_Chr07	10448587	AA	CC	CC	URR	101503335	uncharacterized LOC101503335
SNP_49063_A_10448616	NC_021166.1	Ca_Kabuli_Chr07	10448616	AA	GG	GG	URR	101503335	uncharacterized LOC101503335
SNP_49064_A_10448859	NC_021166.1	Ca_Kabuli_Chr07	10448859	CC	TT	TT	URR	101503335	uncharacterized LOC101503335
SNP_49065_A_10449083	NC_021166.1	Ca_Kabuli_Chr07	10449083	TT	CC	CC	URR	101503335	uncharacterized LOC101503335
SNP_49066_A_10449702	NC_021166.1	Ca_Kabuli_Chr07	10449702	GG	AA	AA	DRR	101503667	novel plant SNARE 11
SNP_49067_A_10449821	NC_021166.1	Ca_Kabuli_Chr07	10449821	AA	CC	CC	DRR	101503667	novel plant SNARE 11
SNP_49068_A_10449844	NC_021166.1	Ca_Kabuli_Chr07	10449844	CC	TT	TT	DRR	101503667	novel plant SNARE 11
SNP_49069_A_10449877	NC_021166.1	Ca_Kabuli_Chr07	10449877	CC	TT	TT	DRR	101503667	novel plant SNARE 11
SNP_49070_A_10449920	NC_021166.1	Ca_Kabuli_Chr07	10449920	CC	TT	TT	DRR	101503667	novel plant SNARE 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49072_A_10449956	NC_021166.1	Ca_Kabuli_Chr07	10449956	TT	CC	CC	DRR	101503667	novel plant SNARE 11
SNP_49073_A_10450008	NC_021166.1	Ca_Kabuli_Chr07	10450008	AA	GG	GG	DRR	101503667	novel plant SNARE 11
SNP_49074_A_10451411	NC_021166.1	Ca_Kabuli_Chr07	10451411	AA	TT	TT	INTERGENIC		
SNP_49075_A_10451450	NC_021166.1	Ca_Kabuli_Chr07	10451450	TT	CC	CC	INTERGENIC		
SNP_49076_A_10451453	NC_021166.1	Ca_Kabuli_Chr07	10451453	GG	CC	CC	INTERGENIC		
SNP_49077_A_10451459	NC_021166.1	Ca_Kabuli_Chr07	10451459	GG	TT	TT	INTERGENIC		
SNP_49078_A_10453360	NC_021166.1	Ca_Kabuli_Chr07	10453360	CC	AA	AA	INTRON	101503667	novel plant SNARE 11
SNP_49079_A_10454751	NC_021166.1	Ca_Kabuli_Chr07	10454751	GG	TT	TT	INTRON	101503667	novel plant SNARE 11
SNP_49080_A_10454797	NC_021166.1	Ca_Kabuli_Chr07	10454797	GG	AA	AA	INTRON	101503667	novel plant SNARE 11
SNP_49081_A_10455902	NC_021166.1	Ca_Kabuli_Chr07	10455902	TT	CC	CC	DRR	101503996	probable receptor-like protein kinase At5g47070
SNP_49082_A_10457445	NC_021166.1	Ca_Kabuli_Chr07	10457445	CC	TT	TT	INTERGENIC		
SNP_49083_A_10458502	NC_021166.1	Ca_Kabuli_Chr07	10458502	CC	TT	TT	INTERGENIC		
SNP_49084_A_10459556	NC_021166.1	Ca_Kabuli_Chr07	10459556	GG	AA	AA	INTERGENIC		
SNP_49086_A_10460801	NC_021166.1	Ca_Kabuli_Chr07	10460801	AA	GG	GG	URR	101503996	probable receptor-like protein kinase At5g47070
SNP_49087_A_10461084	NC_021166.1	Ca_Kabuli_Chr07	10461084	CC	TT	TT	URR	101503996	probable receptor-like protein kinase At5g47070
SNP_49088_A_10464516	NC_021166.1	Ca_Kabuli_Chr07	10464516	AA	GG	GG	DRR	101504547	beta-amylase 3, chloroplastic-like
SNP_49090_A_10465387	NC_021166.1	Ca_Kabuli_Chr07	10465387	AA	TT	TT	URR	101504316	uncharacterized LOC101504316
SNP_49091_A_10467106	NC_021166.1	Ca_Kabuli_Chr07	10467106	TT	AA	AA	INTERGENIC		
SNP_49092_A_10467107	NC_021166.1	Ca_Kabuli_Chr07	10467107	TT	AA	AA	INTERGENIC		
SNP_49094_A_10473022	NC_021166.1	Ca_Kabuli_Chr07	10473022	AA	GG	GG	DRR	101494319	poly(U)-specific endoribonuclease-B
SNP_49095_A_10473024	NC_021166.1	Ca_Kabuli_Chr07	10473024	TT	CC	CC	DRR	101494319	poly(U)-specific endoribonuclease-B
SNP_49096_A_10473034	NC_021166.1	Ca_Kabuli_Chr07	10473034	CC	TT	TT	DRR	101494319	poly(U)-specific endoribonuclease-B

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49097_A_10473129	NC_021166.1	Ca_Kabuli_Chr07	10473129	GG	TT	TT	DRR	101494319	poly(U)-specific endoribonuclease-B
SNP_49098_A_10473131	NC_021166.1	Ca_Kabuli_Chr07	10473131	AA	TT	TT	DRR	101494319	poly(U)-specific endoribonuclease-B
SNP_49099_A_10473136	NC_021166.1	Ca_Kabuli_Chr07	10473136	GG	CC	CC	DRR	101494319	poly(U)-specific endoribonuclease-B
SNP_49101_A_10477254	NC_021166.1	Ca_Kabuli_Chr07	10477254	GG	CC	CC	INTRON	101494319	poly(U)-specific endoribonuclease-B
SNP_49102_A_10478320	NC_021166.1	Ca_Kabuli_Chr07	10478320	TT	CC	CC	DRR	101504860	uncharacterized LOC101504860
SNP_49103_A_10478756	NC_021166.1	Ca_Kabuli_Chr07	10478756	TT	CC	CC	DRR	101504860	uncharacterized LOC101504860
SNP_49104_A_10481015	NC_021166.1	Ca_Kabuli_Chr07	10481015	CC	TT	TT	INTRON	101504860	uncharacterized LOC101504860
SNP_49105_A_10481568	NC_021166.1	Ca_Kabuli_Chr07	10481568	GG	CC	CC	INTRON	101504860	uncharacterized LOC101504860
SNP_49106_A_10481961	NC_021166.1	Ca_Kabuli_Chr07	10481961	AA	GG	GG	INTRON	101504860	uncharacterized LOC101504860
SNP_49108_A_10482142	NC_021166.1	Ca_Kabuli_Chr07	10482142	TT	CC	CC	INTRON	101504860	uncharacterized LOC101504860
SNP_49109_A_10482162	NC_021166.1	Ca_Kabuli_Chr07	10482162	CC	TT	TT	INTRON	101504860	uncharacterized LOC101504860
SNP_49110_A_10486875	NC_021166.1	Ca_Kabuli_Chr07	10486875	CC	GG	GG	URR	101504860	uncharacterized LOC101504860
SNP_49111_A_10489010	NC_021166.1	Ca_Kabuli_Chr07	10489010	AA	GG	GG	INTERGENIC		
SNP_49112_A_10489694	NC_021166.1	Ca_Kabuli_Chr07	10489694	TT	AA	AA	INTERGENIC		
SNP_49113_A_10489710	NC_021166.1	Ca_Kabuli_Chr07	10489710	GG	AA	AA	INTERGENIC		
SNP_49114_A_10489738	NC_021166.1	Ca_Kabuli_Chr07	10489738	AA	GG	GG	INTERGENIC		
SNP_49115_A_10489900	NC_021166.1	Ca_Kabuli_Chr07	10489900	GG	AA	AA	INTERGENIC		
SNP_49116_A_10489947	NC_021166.1	Ca_Kabuli_Chr07	10489947	TT	AA	AA	INTERGENIC		
SNP_49118_A_10490495	NC_021166.1	Ca_Kabuli_Chr07	10490495	TT	AA	AA	INTERGENIC		
SNP_49119_A_10494428	NC_021166.1	Ca_Kabuli_Chr07	10494428	CC	TT	TT	INTERGENIC		
SNP_49120_A_10494434	NC_021166.1	Ca_Kabuli_Chr07	10494434	TT	AA	AA	INTERGENIC		
SNP_49121_A_10494547	NC_021166.1	Ca_Kabuli_Chr07	10494547	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49122_A_10494555	NC_021166.1	Ca_Kabuli_Chr07	10494555	GG	AA	AA	INTERGENIC			
SNP_49123_A_10494566	NC_021166.1	Ca_Kabuli_Chr07	10494566	GG	AA	AA	INTERGENIC			
SNP_49124_A_10508239	NC_021166.1	Ca_Kabuli_Chr07	10508239	TT	CC	CC	INTERGENIC			
SNP_49125_A_10508313	NC_021166.1	Ca_Kabuli_Chr07	10508313	GG	AA	AA	INTERGENIC			
SNP_49126_A_10510028	NC_021166.1	Ca_Kabuli_Chr07	10510028	TT	CC	CC	INTERGENIC			
SNP_49127_A_10510174	NC_021166.1	Ca_Kabuli_Chr07	10510174	AA	TT	TT	INTERGENIC			
SNP_49128_A_10514930	NC_021166.1	Ca_Kabuli_Chr07	10514930	TT	CC	CC	INTERGENIC			
SNP_49130_A_10515227	NC_021166.1	Ca_Kabuli_Chr07	10515227	TT	CC	CC	INTERGENIC			
SNP_49131_A_10515413	NC_021166.1	Ca_Kabuli_Chr07	10515413	GG	AA	AA	INTERGENIC			
SNP_49132_A_10517719	NC_021166.1	Ca_Kabuli_Chr07	10517719	AA	GG	GG	INTERGENIC			
SNP_49133_A_10517856	NC_021166.1	Ca_Kabuli_Chr07	10517856	AA	CC	CC	INTERGENIC			
SNP_49134_A_10517917	NC_021166.1	Ca_Kabuli_Chr07	10517917	GG	CC	CC	INTERGENIC			
SNP_49135_A_10517936	NC_021166.1	Ca_Kabuli_Chr07	10517936	CC	TT	TT	INTERGENIC			
SNP_49137_A_10522438	NC_021166.1	Ca_Kabuli_Chr07	10522438	TT	CC	CC	URR	101505382	probable BOI-related E3 ubiquitin-protein ligase 2	
SNP_49138_A_10523222	NC_021166.1	Ca_Kabuli_Chr07	10523222	TT	CC	CC	URR	101505382	probable BOI-related E3 ubiquitin-protein ligase 2	
SNP_49139_A_10524243	NC_021166.1	Ca_Kabuli_Chr07	10524243	CC	TT	TT	INTERGENIC			
SNP_49140_A_10529603	NC_021166.1	Ca_Kabuli_Chr07	10529603	GG	TT	TT	INTERGENIC			
SNP_49141_A_10529643	NC_021166.1	Ca_Kabuli_Chr07	10529643	AA	TT	TT	INTERGENIC			
SNP_49142_A_10530216	NC_021166.1	Ca_Kabuli_Chr07	10530216	GG	AA	AA	INTERGENIC			
SNP_49143_A_10535721	NC_021166.1	Ca_Kabuli_Chr07	10535721	AA	GG	GG	INTRON	101494632	lon protease homolog 2, peroxisomal-like	
SNP_49144_A_10535725	NC_021166.1	Ca_Kabuli_Chr07	10535725	TT	CC	CC	INTRON	101494632	lon protease homolog 2, peroxisomal-like	
SNP_49145_A_10535728	NC_021166.1	Ca_Kabuli_Chr07	10535728	GG	AA	AA	INTRON	101494632	lon protease homolog 2, peroxisomal-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49146_A_10535788	NC_021166.1	Ca_Kabuli_Chr07	10535788	AA	GG	GG	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49147_A_10535805	NC_021166.1	Ca_Kabuli_Chr07	10535805	GG	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49148_A_10535813	NC_021166.1	Ca_Kabuli_Chr07	10535813	TT	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49149_A_10536192	NC_021166.1	Ca_Kabuli_Chr07	10536192	CC	TT	TT	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49150_A_10542900	NC_021166.1	Ca_Kabuli_Chr07	10542900	TT	CC	CC	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49151_A_10543245	NC_021166.1	Ca_Kabuli_Chr07	10543245	TT	GG	GG	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49153_A_10554647	NC_021166.1	Ca_Kabuli_Chr07	10554647	TT	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49154_A_10555956	NC_021166.1	Ca_Kabuli_Chr07	10555956	TT	GG	GG	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49155_A_10556018	NC_021166.1	Ca_Kabuli_Chr07	10556018	TT	CC	CC	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49156_A_10557484	NC_021166.1	Ca_Kabuli_Chr07	10557484	GG	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49157_A_10557506	NC_021166.1	Ca_Kabuli_Chr07	10557506	GG	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49158_A_10557689	NC_021166.1	Ca_Kabuli_Chr07	10557689	CC	AA	AA	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49159_A_10557813	NC_021166.1	Ca_Kabuli_Chr07	10557813	GG	TT	TT	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49160_A_10557824	NC_021166.1	Ca_Kabuli_Chr07	10557824	GG	TT	TT	INTRON	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49161_A_10557973	NC_021166.1	Ca_Kabuli_Chr07	10557973	CC	AA	AA	STOP_GAINED	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49163_A_10558219	NC_021166.1	Ca_Kabuli_Chr07	10558219	GG	AA	AA	URR	101494632	Ion protease homolog 2, peroxisomal-like
SNP_49164_A_10563256	NC_021166.1	Ca_Kabuli_Chr07	10563256	AA	GG	GG	INTERGENIC		
SNP_49166_A_10571435	NC_021166.1	Ca_Kabuli_Chr07	10571435	CC	TT	TT	INTERGENIC		
SNP_49168_A_10572800	NC_021166.1	Ca_Kabuli_Chr07	10572800	TT	AA	AA	INTERGENIC		
SNP_49169_A_10572843	NC_021166.1	Ca_Kabuli_Chr07	10572843	AA	CC	CC	INTERGENIC		
SNP_49170_A_10574447	NC_021166.1	Ca_Kabuli_Chr07	10574447	TT	CC	CC	INTERGENIC		
SNP_49171_A_10574526	NC_021166.1	Ca_Kabuli_Chr07	10574526	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49172_A_10575516	NC_021166.1	Ca_Kabuli_Chr07	10575516	TT	AA	AA	INTERGENIC			
SNP_49173_A_10575528	NC_021166.1	Ca_Kabuli_Chr07	10575528	GG	AA	AA	INTERGENIC			
SNP_49174_A_10575533	NC_021166.1	Ca_Kabuli_Chr07	10575533	TT	AA	AA	INTERGENIC			
SNP_49175_A_10575544	NC_021166.1	Ca_Kabuli_Chr07	10575544	CC	TT	TT	INTERGENIC			
SNP_49176_A_10575873	NC_021166.1	Ca_Kabuli_Chr07	10575873	AA	TT	TT	INTERGENIC			
SNP_49177_A_10575886	NC_021166.1	Ca_Kabuli_Chr07	10575886	AA	GG	GG	INTERGENIC			
SNP_49178_A_10575893	NC_021166.1	Ca_Kabuli_Chr07	10575893	AA	GG	GG	INTERGENIC			
SNP_49179_A_10575956	NC_021166.1	Ca_Kabuli_Chr07	10575956	GG	AA	AA	INTERGENIC			
SNP_49180_A_10577301	NC_021166.1	Ca_Kabuli_Chr07	10577301	TT	CC	CC	INTERGENIC			
SNP_49181_A_10577563	NC_021166.1	Ca_Kabuli_Chr07	10577563	CC	AA	AA	INTERGENIC			
SNP_49183_A_10580746	NC_021166.1	Ca_Kabuli_Chr07	10580746	TT	CC	CC	INTERGENIC			
SNP_49184_A_10580798	NC_021166.1	Ca_Kabuli_Chr07	10580798	TT	CC	CC	INTERGENIC			
SNP_49185_A_10584456	NC_021166.1	Ca_Kabuli_Chr07	10584456	GG	AA	AA	INTERGENIC			
SNP_49186_A_10586225	NC_021166.1	Ca_Kabuli_Chr07	10586225	TT	AA	AA	INTERGENIC			
SNP_49187_A_10586411	NC_021166.1	Ca_Kabuli_Chr07	10586411	AA	TT	TT	INTERGENIC			
SNP_49188_A_10590225	NC_021166.1	Ca_Kabuli_Chr07	10590225	AA	TT	TT	INTERGENIC			
SNP_49189_A_10590226	NC_021166.1	Ca_Kabuli_Chr07	10590226	TT	CC	CC	INTERGENIC			
SNP_49191_A_10596468	NC_021166.1	Ca_Kabuli_Chr07	10596468	TT	AA	AA	URR	101505923	uncharacterized LOC101505923	
SNP_49192_A_10596500	NC_021166.1	Ca_Kabuli_Chr07	10596500	TT	CC	CC	URR	101505923	uncharacterized LOC101505923	
SNP_49193_A_10596511	NC_021166.1	Ca_Kabuli_Chr07	10596511	CC	TT	TT	URR	101505923	uncharacterized LOC101505923	
SNP_49194_A_10596580	NC_021166.1	Ca_Kabuli_Chr07	10596580	TT	AA	AA	URR	101505923	uncharacterized LOC101505923	
SNP_49195_A_10596582	NC_021166.1	Ca_Kabuli_Chr07	10596582	GG	TT	TT	URR	101505923	uncharacterized LOC101505923	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49196_A_10596633	NC_021166.1	Ca_Kabuli_Chr07	10596633	AA	CC	CC	URR	101505923	uncharacterized LOC101505923
SNP_49197_A_10596643	NC_021166.1	Ca_Kabuli_Chr07	10596643	TT	CC	CC	URR	101505923	uncharacterized LOC101505923
SNP_49198_A_10596785	NC_021166.1	Ca_Kabuli_Chr07	10596785	TT	CC	CC	URR	101505923	uncharacterized LOC101505923
SNP_49199_A_10596953	NC_021166.1	Ca_Kabuli_Chr07	10596953	CC	TT	TT	URR	101505923	uncharacterized LOC101505923
SNP_49200_A_10600932	NC_021166.1	Ca_Kabuli_Chr07	10600932	TT	CC	CC	INTERGENIC		
SNP_49201_A_10607008	NC_021166.1	Ca_Kabuli_Chr07	10607008	TT	GG	GG	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49202_A_10607013	NC_021166.1	Ca_Kabuli_Chr07	10607013	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49203_A_10607016	NC_021166.1	Ca_Kabuli_Chr07	10607016	AA	GG	GG	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49204_A_10607040	NC_021166.1	Ca_Kabuli_Chr07	10607040	GG	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49205_A_10607059	NC_021166.1	Ca_Kabuli_Chr07	10607059	CC	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49206_A_10607079	NC_021166.1	Ca_Kabuli_Chr07	10607079	CC	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49207_A_10607331	NC_021166.1	Ca_Kabuli_Chr07	10607331	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49208_A_10607375	NC_021166.1	Ca_Kabuli_Chr07	10607375	AA	GG	GG	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49210_A_10607613	NC_021166.1	Ca_Kabuli_Chr07	10607613	TT	GG	GG	NON_SYNONYMOUS_CODING	101506566	lon protease homolog 2, peroxisomal-like
SNP_49211_A_10607639	NC_021166.1	Ca_Kabuli_Chr07	10607639	AA	GG	GG	NON_SYNONYMOUS_CODING	101506566	lon protease homolog 2, peroxisomal-like
SNP_49212_A_10607676	NC_021166.1	Ca_Kabuli_Chr07	10607676	GG	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49213_A_10607693	NC_021166.1	Ca_Kabuli_Chr07	10607693	TT	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49214_A_10607728	NC_021166.1	Ca_Kabuli_Chr07	10607728	AA	GG	GG	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49215_A_10607907	NC_021166.1	Ca_Kabuli_Chr07	10607907	CC	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49216_A_10608010	NC_021166.1	Ca_Kabuli_Chr07	10608010	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49217_A_10608032	NC_021166.1	Ca_Kabuli_Chr07	10608032	GG	AA	AA	NON_SYNONYMOUS_CODING	101506566	lon protease homolog 2, peroxisomal-like
SNP_49218_A_10608063	NC_021166.1	Ca_Kabuli_Chr07	10608063	TT	CC	CC	NON_SYNONYMOUS_CODING	101506566	lon protease homolog 2, peroxisomal-like

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SNP_49219_A_10613094	NC_021166.1	Ca_Kabuli_Chr07	10613094	GG	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49220_A_10613106	NC_021166.1	Ca_Kabuli_Chr07	10613106	TT	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49221_A_10613149	NC_021166.1	Ca_Kabuli_Chr07	10613149	AA	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49223_A_10614337	NC_021166.1	Ca_Kabuli_Chr07	10614337	AA	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49224_A_10614343	NC_021166.1	Ca_Kabuli_Chr07	10614343	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49225_A_10615624	NC_021166.1	Ca_Kabuli_Chr07	10615624	AA	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49226_A_10615633	NC_021166.1	Ca_Kabuli_Chr07	10615633	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49227_A_10616186	NC_021166.1	Ca_Kabuli_Chr07	10616186	GG	AA	AA	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49228_A_10616198	NC_021166.1	Ca_Kabuli_Chr07	10616198	CC	TT	TT	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49229_A_10616229	NC_021166.1	Ca_Kabuli_Chr07	10616229	AA	GG	GG	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49230_A_10616921	NC_021166.1	Ca_Kabuli_Chr07	10616921	TT	CC	CC	INTRON	101506566	lon protease homolog 2, peroxisomal-like
SNP_49232_A_10621184	NC_021166.1	Ca_Kabuli_Chr07	10621184	CC	TT	TT	URR	101506566	lon protease homolog 2, peroxisomal-like
SNP_49233_A_10621301	NC_021166.1	Ca_Kabuli_Chr07	10621301	AA	GG	GG	URR	101506566	lon protease homolog 2, peroxisomal-like
SNP_49234_A_10624558	NC_021166.1	Ca_Kabuli_Chr07	10624558	GG	AA	AA	URR	101506235	putative invertase inhibitor
SNP_49235_A_10624647	NC_021166.1	Ca_Kabuli_Chr07	10624647	AA	CC	CC	URR	101506235	putative invertase inhibitor
SNP_49236_A_10624684	NC_021166.1	Ca_Kabuli_Chr07	10624684	GG	AA	AA	URR	101506235	putative invertase inhibitor
SNP_49237_A_10625752	NC_021166.1	Ca_Kabuli_Chr07	10625752	AA	GG	GG	DRR	101507228	ras-related protein RABH1b-like
SNP_49238_A_10625776	NC_021166.1	Ca_Kabuli_Chr07	10625776	GG	AA	AA	DRR	101507228	ras-related protein RABH1b-like
SNP_49239_A_10626743	NC_021166.1	Ca_Kabuli_Chr07	10626743	AA	TT	TT	DRR	101506900	pectinesterase inhibitor 2
SNP_49241_A_10632802	NC_021166.1	Ca_Kabuli_Chr07	10632802	GG	AA	AA	URR	101507228	ras-related protein RABH1b-like
SNP_49242_A_10632985	NC_021166.1	Ca_Kabuli_Chr07	10632985	AA	GG	GG	URR	101507228	ras-related protein RABH1b-like
SNP_49243_A_10633060	NC_021166.1	Ca_Kabuli_Chr07	10633060	CC	AA	AA	URR	101507228	ras-related protein RABH1b-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49244_A_10633247	NC_021166.1	Ca_Kabuli_Chr07	10633247	AA	CC	CC	URR	101507228	ras-related protein RABH1b-like
SNP_49245_A_10633267	NC_021166.1	Ca_Kabuli_Chr07	10633267	GG	AA	AA	URR	101507228	ras-related protein RABH1b-like
SNP_49246_A_10633396	NC_021166.1	Ca_Kabuli_Chr07	10633396	AA	TT	TT	URR	101507228	ras-related protein RABH1b-like
SNP_49247_A_10646866	NC_021166.1	Ca_Kabuli_Chr07	10646866	AA	GG	GG	DRR	101507858	dynammin-related protein 1E-like
SNP_49248_A_10646916	NC_021166.1	Ca_Kabuli_Chr07	10646916	CC	GG	GG	DRR	101507858	dynammin-related protein 1E-like
SNP_49249_A_10657101	NC_021166.1	Ca_Kabuli_Chr07	10657101	TT	CC	CC	INTERGENIC		
SNP_49253_A_10680497	NC_021166.1	Ca_Kabuli_Chr07	10680497	CC	TT	TT	INTERGENIC		
SNP_49255_A_10680942	NC_021166.1	Ca_Kabuli_Chr07	10680942	CC	AA	AA	INTERGENIC		
SNP_49257_A_10684830	NC_021166.1	Ca_Kabuli_Chr07	10684830	AA	TT	TT	INTRON	101509989	two-component response regulator-like APRR2
SNP_49258_A_10684833	NC_021166.1	Ca_Kabuli_Chr07	10684833	GG	TT	TT	INTRON	101509989	two-component response regulator-like APRR2
SNP_49259_A_10687451	NC_021166.1	Ca_Kabuli_Chr07	10687451	CC	TT	TT	INTRON	101509989	two-component response regulator-like APRR2
SNP_49260_A_10691990	NC_021166.1	Ca_Kabuli_Chr07	10691990	TT	CC	CC	INTERGENIC		
SNP_49261_A_10693728	NC_021166.1	Ca_Kabuli_Chr07	10693728	GG	AA	AA	INTERGENIC		
SNP_49262_A_10693770	NC_021166.1	Ca_Kabuli_Chr07	10693770	AA	GG	GG	INTERGENIC		
SNP_49264_A_10694601	NC_021166.1	Ca_Kabuli_Chr07	10694601	CC	TT	TT	INTERGENIC		
SNP_49265_A_10697894	NC_021166.1	Ca_Kabuli_Chr07	10697894	CC	GG	GG	NON_SYNONYMOUS_CODING	101495598	transcription factor GAMYB-like
SNP_49266_A_10701522	NC_021166.1	Ca_Kabuli_Chr07	10701522	AA	TT	TT	INTERGENIC		
SNP_49267_A_10714426	NC_021166.1	Ca_Kabuli_Chr07	10714426	TT	GG	GG	INTERGENIC		
SNP_49268_A_10715117	NC_021166.1	Ca_Kabuli_Chr07	10715117	TT	CC	CC	DRR	101510525	tobamovirus multiplication protein 2A-like
SNP_49270_A_10719603	NC_021166.1	Ca_Kabuli_Chr07	10719603	AA	GG	GG	INTRON	101510525	tobamovirus multiplication protein 2A-like
SNP_49271_A_10719661	NC_021166.1	Ca_Kabuli_Chr07	10719661	AA	GG	GG	INTRON	101510525	tobamovirus multiplication protein 2A-like
SNP_49272_A_10720644	NC_021166.1	Ca_Kabuli_Chr07	10720644	CC	GG	GG	INTRON	101510525	tobamovirus multiplication protein 2A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49273_A_10720662	NC_021166.1	Ca_Kabuli_Chr07	10720662	GG	TT	TT	INTRON	101510525	tobamovirus multiplication protein 2A-like
SNP_49274_A_10724051	NC_021166.1	Ca_Kabuli_Chr07	10724051	CC	TT	TT	INTERGENIC		
SNP_49275_A_10724089	NC_021166.1	Ca_Kabuli_Chr07	10724089	GG	CC	CC	INTERGENIC		
SNP_49276_A_10725175	NC_021166.1	Ca_Kabuli_Chr07	10725175	AA	GG	GG	DRR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49277_A_10727877	NC_021166.1	Ca_Kabuli_Chr07	10727877	TT	AA	AA	INTRON	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49278_A_10731500	NC_021166.1	Ca_Kabuli_Chr07	10731500	CC	TT	TT	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49280_A_10731640	NC_021166.1	Ca_Kabuli_Chr07	10731640	AA	TT	TT	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49281_A_10731978	NC_021166.1	Ca_Kabuli_Chr07	10731978	TT	AA	AA	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49282_A_10731981	NC_021166.1	Ca_Kabuli_Chr07	10731981	CC	TT	TT	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49283_A_10731993	NC_021166.1	Ca_Kabuli_Chr07	10731993	AA	GG	GG	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49284_A_10732080	NC_021166.1	Ca_Kabuli_Chr07	10732080	CC	GG	GG	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49285_A_10732089	NC_021166.1	Ca_Kabuli_Chr07	10732089	AA	GG	GG	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49286_A_10732101	NC_021166.1	Ca_Kabuli_Chr07	10732101	CC	TT	TT	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49287_A_10732116	NC_021166.1	Ca_Kabuli_Chr07	10732116	CC	TT	TT	URR	101511070	type I inositol 1,4,5-trisphosphate 5-phosphatase 2-like
SNP_49289_A_10733835	NC_021166.1	Ca_Kabuli_Chr07	10733835	AA	GG	GG	INTERGENIC		
SNP_49290_A_10733870	NC_021166.1	Ca_Kabuli_Chr07	10733870	AA	GG	GG	INTERGENIC		
SNP_49291_A_10735407	NC_021166.1	Ca_Kabuli_Chr07	10735407	CC	AA	AA	INTERGENIC		
SNP_49292_A_10735409	NC_021166.1	Ca_Kabuli_Chr07	10735409	CC	TT	TT	INTERGENIC		
SNP_49293_A_10735419	NC_021166.1	Ca_Kabuli_Chr07	10735419	AA	GG	GG	INTERGENIC		
SNP_49294_A_10735446	NC_021166.1	Ca_Kabuli_Chr07	10735446	AA	GG	GG	INTERGENIC		
SNP_49295_A_10735650	NC_021166.1	Ca_Kabuli_Chr07	10735650	AA	GG	GG	INTERGENIC		
SNP_49296_A_10735697	NC_021166.1	Ca_Kabuli_Chr07	10735697	GG	AA	AA	INTERGENIC		

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SNP_49297_A_10735804	NC_021166.1	Ca_Kabuli_Chr07	10735804	CC	TT	TT	INTERGENIC		
SNP_49298_A_10735973	NC_021166.1	Ca_Kabuli_Chr07	10735973	CC	TT	TT	INTERGENIC		
SNP_49299_A_10736049	NC_021166.1	Ca_Kabuli_Chr07	10736049	CC	AA	AA	INTERGENIC		
SNP_49300_A_10740785	NC_021166.1	Ca_Kabuli_Chr07	10740785	AA	TT	TT	INTERGENIC		
SNP_49302_A_10742951	NC_021166.1	Ca_Kabuli_Chr07	10742951	AA	GG	GG	DRR	101511593	ribose-phosphate pyrophosphokinase 1
SNP_49303_A_10743261	NC_021166.1	Ca_Kabuli_Chr07	10743261	CC	TT	TT	DRR	101511593	ribose-phosphate pyrophosphokinase 1
SNP_49304_A_10744085	NC_021166.1	Ca_Kabuli_Chr07	10744085	CC	AA	AA	INTRON	101511593	ribose-phosphate pyrophosphokinase 1
SNP_49305_A_10749577	NC_021166.1	Ca_Kabuli_Chr07	10749577	TT	CC	CC	URR	101511593	ribose-phosphate pyrophosphokinase 1
SNP_49306_A_10749579	NC_021166.1	Ca_Kabuli_Chr07	10749579	TT	CC	CC	URR	101511593	ribose-phosphate pyrophosphokinase 1
SNP_49307_A_10751028	NC_021166.1	Ca_Kabuli_Chr07	10751028	AA	GG	GG	INTERGENIC		
SNP_49308_A_10761632	NC_021166.1	Ca_Kabuli_Chr07	10761632	AA	GG	GG	INTERGENIC		
SNP_49309_A_10763982	NC_021166.1	Ca_Kabuli_Chr07	10763982	CC	GG	GG	INTERGENIC		
SNP_49310_A_10764653	NC_021166.1	Ca_Kabuli_Chr07	10764653	TT	AA	AA	INTERGENIC		
SNP_49311_A_10767084	NC_021166.1	Ca_Kabuli_Chr07	10767084	AA	GG	GG	INTERGENIC		
SNP_49312_A_10767178	NC_021166.1	Ca_Kabuli_Chr07	10767178	CC	TT	TT	INTERGENIC		
SNP_49313_A_10767317	NC_021166.1	Ca_Kabuli_Chr07	10767317	GG	AA	AA	INTERGENIC		
SNP_49314_A_10767342	NC_021166.1	Ca_Kabuli_Chr07	10767342	CC	TT	TT	INTERGENIC		
SNP_49315_A_10767354	NC_021166.1	Ca_Kabuli_Chr07	10767354	AA	GG	GG	INTERGENIC		
SNP_49316_A_10767372	NC_021166.1	Ca_Kabuli_Chr07	10767372	TT	CC	CC	INTERGENIC		
SNP_49317_A_10767382	NC_021166.1	Ca_Kabuli_Chr07	10767382	CC	TT	TT	INTERGENIC		
SNP_49318_A_10769038	NC_021166.1	Ca_Kabuli_Chr07	10769038	GG	AA	AA	INTERGENIC		
SNP_49319_A_10769291	NC_021166.1	Ca_Kabuli_Chr07	10769291	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49320_A_10770723	NC_021166.1	Ca_Kabuli_Chr07	10770723	TT	GG	GG	INTERGENIC		
SNP_49321_A_10770759	NC_021166.1	Ca_Kabuli_Chr07	10770759	TT	AA	AA	INTERGENIC		
SNP_49322_A_10770798	NC_021166.1	Ca_Kabuli_Chr07	10770798	AA	TT	TT	INTERGENIC		
SNP_49323_A_10770809	NC_021166.1	Ca_Kabuli_Chr07	10770809	GG	AA	AA	INTERGENIC		
SNP_49324_A_10784196	NC_021166.1	Ca_Kabuli_Chr07	10784196	GG	TT	TT	INTERGENIC		
SNP_49325_A_10784311	NC_021166.1	Ca_Kabuli_Chr07	10784311	AA	GG	GG	INTERGENIC		
SNP_49326_A_10784634	NC_021166.1	Ca_Kabuli_Chr07	10784634	AA	GG	GG	INTERGENIC		
SNP_49327_A_10784673	NC_021166.1	Ca_Kabuli_Chr07	10784673	GG	TT	TT	INTERGENIC		
SNP_49328_A_10792091	NC_021166.1	Ca_Kabuli_Chr07	10792091	TT	CC	CC	INTERGENIC		
SNP_49329_A_10792094	NC_021166.1	Ca_Kabuli_Chr07	10792094	GG	CC	CC	INTERGENIC		
SNP_49330_A_10793749	NC_021166.1	Ca_Kabuli_Chr07	10793749	CC	TT	TT	INTERGENIC		
SNP_49331_A_10794195	NC_021166.1	Ca_Kabuli_Chr07	10794195	AA	GG	GG	INTERGENIC		
SNP_49332_A_10794196	NC_021166.1	Ca_Kabuli_Chr07	10794196	GG	AA	AA	INTERGENIC		
SNP_49333_A_10802133	NC_021166.1	Ca_Kabuli_Chr07	10802133	AA	CC	CC	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49334_A_10802170	NC_021166.1	Ca_Kabuli_Chr07	10802170	AA	GG	GG	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49335_A_10802428	NC_021166.1	Ca_Kabuli_Chr07	10802428	AA	TT	TT	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49336_A_10802430	NC_021166.1	Ca_Kabuli_Chr07	10802430	TT	GG	GG	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49337_A_10802512	NC_021166.1	Ca_Kabuli_Chr07	10802512	AA	TT	TT	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49338_A_10802616	NC_021166.1	Ca_Kabuli_Chr07	10802616	TT	CC	CC	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49339_A_10802629	NC_021166.1	Ca_Kabuli_Chr07	10802629	AA	GG	GG	URR	101511919	probable serine/threonine-protein kinase At4g35230
SNP_49340_A_10807475	NC_021166.1	Ca_Kabuli_Chr07	10807475	GG	AA	AA	INTRON	101513425	uncharacterized LOC101513425
SNP_49341_A_10809534	NC_021166.1	Ca_Kabuli_Chr07	10809534	GG	AA	AA	DRR	101513100	pentatricopeptide repeat-containing protein At5g46580, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49342_A_10809569	NC_021166.1	Ca_Kabuli_Chr07	10809569	AA	CC	CC	DRR	101513100	pentatricopeptide repeat-containing protein At5g46580, chloroplastic
SNP_49343_A_10810383	NC_021166.1	Ca_Kabuli_Chr07	10810383	AA	TT	TT	DRR	101513100	pentatricopeptide repeat-containing protein At5g46580, chloroplastic
SNP_49344_A_10813507	NC_021166.1	Ca_Kabuli_Chr07	10813507	CC	GG	GG	DRR	101512455	protein phosphatase 2C 29
SNP_49345_A_10816113	NC_021166.1	Ca_Kabuli_Chr07	10816113	CC	TT	TT	INTERGENIC		
SNP_49346_A_10818088	NC_021166.1	Ca_Kabuli_Chr07	10818088	CC	GG	GG	NON_SYNONYMOUS_CODING	id164673	Unknown function
SNP_49347_A_10820224	NC_021166.1	Ca_Kabuli_Chr07	10820224	AA	GG	GG	URR	101512455	protein phosphatase 2C 29
SNP_49348_A_10820227	NC_021166.1	Ca_Kabuli_Chr07	10820227	AA	CC	CC	URR	101512455	protein phosphatase 2C 29
SNP_49349_A_10820247	NC_021166.1	Ca_Kabuli_Chr07	10820247	TT	AA	AA	URR	101512455	protein phosphatase 2C 29
SNP_49350_A_10822720	NC_021166.1	Ca_Kabuli_Chr07	10822720	GG	AA	AA	INTERGENIC		
SNP_49351_A_10822837	NC_021166.1	Ca_Kabuli_Chr07	10822837	AA	TT	TT	INTERGENIC		
SNP_49352_A_10825850	NC_021166.1	Ca_Kabuli_Chr07	10825850	AA	CC	CC	INTERGENIC		
SNP_49353_A_10825879	NC_021166.1	Ca_Kabuli_Chr07	10825879	AA	GG	GG	INTERGENIC		
SNP_49354_A_10825887	NC_021166.1	Ca_Kabuli_Chr07	10825887	GG	AA	AA	INTERGENIC		
SNP_49355_A_10826904	NC_021166.1	Ca_Kabuli_Chr07	10826904	CC	TT	TT	INTERGENIC		
SNP_49356_A_10827024	NC_021166.1	Ca_Kabuli_Chr07	10827024	GG	TT	TT	INTERGENIC		
SNP_49357_A_10827034	NC_021166.1	Ca_Kabuli_Chr07	10827034	TT	CC	CC	INTERGENIC		
SNP_49358_A_10827036	NC_021166.1	Ca_Kabuli_Chr07	10827036	CC	TT	TT	INTERGENIC		
SNP_49359_A_10827057	NC_021166.1	Ca_Kabuli_Chr07	10827057	CC	TT	TT	INTERGENIC		
SNP_49360_A_10827139	NC_021166.1	Ca_Kabuli_Chr07	10827139	AA	GG	GG	INTERGENIC		
SNP_49361_A_10834231	NC_021166.1	Ca_Kabuli_Chr07	10834231	CC	TT	TT	INTRON	101513738	uncharacterized LOC101513738
SNP_49362_A_10838544	NC_021166.1	Ca_Kabuli_Chr07	10838544	GG	AA	AA	URR	101513738	uncharacterized LOC101513738
SNP_49363_A_10838581	NC_021166.1	Ca_Kabuli_Chr07	10838581	AA	GG	GG	URR	101513738	uncharacterized LOC101513738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49365_A_10838625	NC_021166.1	Ca_Kabuli_Chr07	10838625	TT	GG	GG	URR	101513738	uncharacterized LOC101513738
SNP_49366_A_10839075	NC_021166.1	Ca_Kabuli_Chr07	10839075	TT	CC	CC	URR	101513738	uncharacterized LOC101513738
SNP_49367_A_10839281	NC_021166.1	Ca_Kabuli_Chr07	10839281	AA	GG	GG	URR	101513738	uncharacterized LOC101513738
SNP_49368_A_10839287	NC_021166.1	Ca_Kabuli_Chr07	10839287	GG	CC	CC	URR	101513738	uncharacterized LOC101513738
SNP_49369_A_10839329	NC_021166.1	Ca_Kabuli_Chr07	10839329	GG	AA	AA	URR	101513738	uncharacterized LOC101513738
SNP_49370_A_10839780	NC_021166.1	Ca_Kabuli_Chr07	10839780	TT	CC	CC	INTERGENIC		
SNP_49372_A_10846227	NC_021166.1	Ca_Kabuli_Chr07	10846227	TT	CC	CC	INTERGENIC		
SNP_49373_A_10847604	NC_021166.1	Ca_Kabuli_Chr07	10847604	TT	CC	CC	DRR	101514627	uncharacterized LOC101514627
SNP_49374_A_10848874	NC_021166.1	Ca_Kabuli_Chr07	10848874	CC	TT	TT	URR	101514305	NAC domain-containing protein 72-like
SNP_49375_A_10848928	NC_021166.1	Ca_Kabuli_Chr07	10848928	CC	GG	GG	URR	101514305	NAC domain-containing protein 72-like
SNP_49376_A_10852304	NC_021166.1	Ca_Kabuli_Chr07	10852304	AA	GG	GG	INTERGENIC		
SNP_49377_A_10852307	NC_021166.1	Ca_Kabuli_Chr07	10852307	AA	GG	GG	INTERGENIC		
SNP_49378_A_10853838	NC_021166.1	Ca_Kabuli_Chr07	10853838	AA	GG	GG	INTRON	101515278	aluminum-activated malate transporter 12-like
SNP_49379_A_10853912	NC_021166.1	Ca_Kabuli_Chr07	10853912	AA	GG	GG	INTRON	101515278	aluminum-activated malate transporter 12-like
SNP_49380_A_10853919	NC_021166.1	Ca_Kabuli_Chr07	10853919	GG	CC	CC	INTRON	101515278	aluminum-activated malate transporter 12-like
SNP_49381_A_10854521	NC_021166.1	Ca_Kabuli_Chr07	10854521	GG	AA	AA	INTERGENIC		
SNP_49382_A_10855161	NC_021166.1	Ca_Kabuli_Chr07	10855161	AA	GG	GG	INTERGENIC		
SNP_49383_A_10855196	NC_021166.1	Ca_Kabuli_Chr07	10855196	GG	AA	AA	INTERGENIC		
SNP_49384_A_10857594	NC_021166.1	Ca_Kabuli_Chr07	10857594	TT	CC	CC	INTERGENIC		
SNP_49385_A_10860600	NC_021166.1	Ca_Kabuli_Chr07	10860600	TT	CC	CC	INTRON	101514958	MND1-interacting protein 1
SNP_49386_A_10860612	NC_021166.1	Ca_Kabuli_Chr07	10860612	TT	AA	AA	INTRON	101514958	MND1-interacting protein 1
SNP_49387_A_10871945	NC_021166.1	Ca_Kabuli_Chr07	10871945	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49388_A_10872135	NC_021166.1	Ca_Kabuli_Chr07	10872135	GG	AA	AA	INTERGENIC		
SNP_49389_A_10872310	NC_021166.1	Ca_Kabuli_Chr07	10872310	TT	CC	CC	INTERGENIC		
SNP_49390_A_10872323	NC_021166.1	Ca_Kabuli_Chr07	10872323	GG	AA	AA	INTERGENIC		
SNP_49391_A_10872406	NC_021166.1	Ca_Kabuli_Chr07	10872406	TT	CC	CC	INTERGENIC		
SNP_49392_A_10876107	NC_021166.1	Ca_Kabuli_Chr07	10876107	TT	AA	AA	INTRON	101515603	plant intracellular Ras-group-related LRR protein 5-like
SNP_49393_A_10876564	NC_021166.1	Ca_Kabuli_Chr07	10876564	CC	TT	TT	URR	101515603	plant intracellular Ras-group-related LRR protein 5-like
SNP_49394_A_10876704	NC_021166.1	Ca_Kabuli_Chr07	10876704	GG	AA	AA	URR	101515603	plant intracellular Ras-group-related LRR protein 5-like
SNP_49395_A_10876795	NC_021166.1	Ca_Kabuli_Chr07	10876795	GG	AA	AA	URR	101515603	plant intracellular Ras-group-related LRR protein 5-like
SNP_49396_A_10876830	NC_021166.1	Ca_Kabuli_Chr07	10876830	GG	AA	AA	URR	101515603	plant intracellular Ras-group-related LRR protein 5-like
SNP_49397_A_10877801	NC_021166.1	Ca_Kabuli_Chr07	10877801	TT	GG	GG	DRR	101488356	eyes absent homolog 2
SNP_49398_A_10879902	NC_021166.1	Ca_Kabuli_Chr07	10879902	TT	CC	CC	INTERGENIC		
SNP_49399_A_10888742	NC_021166.1	Ca_Kabuli_Chr07	10888742	CC	TT	TT	INTERGENIC		
SNP_49400_A_10890111	NC_021166.1	Ca_Kabuli_Chr07	10890111	GG	AA	AA	INTERGENIC		
SNP_49401_A_10891104	NC_021166.1	Ca_Kabuli_Chr07	10891104	AA	GG	GG	INTERGENIC		
SNP_49402_A_10891172	NC_021166.1	Ca_Kabuli_Chr07	10891172	AA	CC	CC	INTERGENIC		
SNP_49403_A_10891382	NC_021166.1	Ca_Kabuli_Chr07	10891382	AA	GG	GG	INTERGENIC		
SNP_49404_A_10894309	NC_021166.1	Ca_Kabuli_Chr07	10894309	GG	CC	CC	INTERGENIC		
SNP_49405_A_10894318	NC_021166.1	Ca_Kabuli_Chr07	10894318	TT	CC	CC	INTERGENIC		
SNP_49406_A_10896005	NC_021166.1	Ca_Kabuli_Chr07	10896005	TT	AA	AA	INTERGENIC		
SNP_49407_A_10896191	NC_021166.1	Ca_Kabuli_Chr07	10896191	GG	AA	AA	INTERGENIC		
SNP_49409_A_10896907	NC_021166.1	Ca_Kabuli_Chr07	10896907	GG	AA	AA	INTERGENIC		
SNP_49410_A_10896915	NC_021166.1	Ca_Kabuli_Chr07	10896915	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49411_A_10898755	NC_021166.1	Ca_Kabuli_Chr07	10898755	CC	TT	TT	DRR	101488680	protein LOL1
SNP_49412_A_10899239	NC_021166.1	Ca_Kabuli_Chr07	10899239	TT	GG	GG	DRR	101488680	protein LOL1
SNP_49413_A_10899260	NC_021166.1	Ca_Kabuli_Chr07	10899260	TT	CC	CC	DRR	101488680	protein LOL1
SNP_49415_A_10901505	NC_021166.1	Ca_Kabuli_Chr07	10901505	TT	CC	CC	INTERGENIC		
SNP_49418_A_10908263	NC_021166.1	Ca_Kabuli_Chr07	10908263	GG	AA	AA	INTRON	101489877	ferredoxin-A
SNP_49419_A_10909277	NC_021166.1	Ca_Kabuli_Chr07	10909277	AA	TT	TT	URR	101489877	ferredoxin-A
SNP_49420_A_10909562	NC_021166.1	Ca_Kabuli_Chr07	10909562	AA	GG	GG	URR	101489877	ferredoxin-A
SNP_49421_A_10909789	NC_021166.1	Ca_Kabuli_Chr07	10909789	TT	AA	AA	URR	101489877	ferredoxin-A
SNP_49422_A_10909963	NC_021166.1	Ca_Kabuli_Chr07	10909963	CC	TT	TT	URR	101489877	ferredoxin-A
SNP_49424_A_10914988	NC_021166.1	Ca_Kabuli_Chr07	10914988	CC	TT	TT	INTERGENIC		
SNP_49425_A_10915738	NC_021166.1	Ca_Kabuli_Chr07	10915738	TT	CC	CC	INTERGENIC		
SNP_49426_A_10915754	NC_021166.1	Ca_Kabuli_Chr07	10915754	AA	TT	TT	INTERGENIC		
SNP_49427_A_10916494	NC_021166.1	Ca_Kabuli_Chr07	10916494	TT	CC	CC	INTERGENIC		
SNP_49428_A_10924957	NC_021166.1	Ca_Kabuli_Chr07	10924957	CC	TT	TT	URR	101490533	AT-hook motif nuclear-localized protein 8-like
SNP_49429_A_10925211	NC_021166.1	Ca_Kabuli_Chr07	10925211	TT	GG	GG	URR	101490533	AT-hook motif nuclear-localized protein 8-like
SNP_49430_A_10925466	NC_021166.1	Ca_Kabuli_Chr07	10925466	AA	GG	GG	INTERGENIC		
SNP_49432_A_10927110	NC_021166.1	Ca_Kabuli_Chr07	10927110	AA	GG	GG	INTERGENIC		
SNP_49433_A_10927772	NC_021166.1	Ca_Kabuli_Chr07	10927772	AA	GG	GG	INTERGENIC		
SNP_49434_A_10927862	NC_021166.1	Ca_Kabuli_Chr07	10927862	CC	GG	GG	INTERGENIC		
SNP_49435_A_10927916	NC_021166.1	Ca_Kabuli_Chr07	10927916	AA	CC	CC	INTERGENIC		
SNP_49436_A_10932091	NC_021166.1	Ca_Kabuli_Chr07	10932091	CC	AA	AA	URR	101490855	AT-hook motif nuclear-localized protein 23
SNP_49437_A_10936409	NC_021166.1	Ca_Kabuli_Chr07	10936409	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49440_A_10939538	NC_021166.1	Ca_Kabuli_Chr07	10939538	TT	CC	CC	INTERGENIC			
SNP_49441_A_10940713	NC_021166.1	Ca_Kabuli_Chr07	10940713	TT	AA	AA	INTERGENIC			
SNP_49442_A_10940716	NC_021166.1	Ca_Kabuli_Chr07	10940716	GG	AA	AA	INTERGENIC			
SNP_49443_A_10940776	NC_021166.1	Ca_Kabuli_Chr07	10940776	AA	GG	GG	INTERGENIC			
SNP_49444_A_10941233	NC_021166.1	Ca_Kabuli_Chr07	10941233	CC	TT	TT	INTERGENIC			
SNP_49445_A_10942913	NC_021166.1	Ca_Kabuli_Chr07	10942913	GG	TT	TT	INTERGENIC			
SNP_49446_A_10942958	NC_021166.1	Ca_Kabuli_Chr07	10942958	TT	CC	CC	INTERGENIC			
SNP_49447_A_10942984	NC_021166.1	Ca_Kabuli_Chr07	10942984	TT	CC	CC	INTERGENIC			
SNP_49448_A_10943272	NC_021166.1	Ca_Kabuli_Chr07	10943272	TT	GG	GG	INTERGENIC			
SNP_49449_A_10943990	NC_021166.1	Ca_Kabuli_Chr07	10943990	AA	TT	TT	INTERGENIC			
SNP_49450_A_10944006	NC_021166.1	Ca_Kabuli_Chr07	10944006	AA	GG	GG	INTERGENIC			
SNP_49451_A_10944022	NC_021166.1	Ca_Kabuli_Chr07	10944022	GG	CC	CC	INTERGENIC			
SNP_49452_A_10961345	NC_021166.1	Ca_Kabuli_Chr07	10961345	TT	CC	CC	INTERGENIC			
SNP_49453_A_10961399	NC_021166.1	Ca_Kabuli_Chr07	10961399	GG	AA	AA	INTERGENIC			
SNP_49454_A_10961510	NC_021166.1	Ca_Kabuli_Chr07	10961510	TT	CC	CC	INTERGENIC			
SNP_49455_A_10961546	NC_021166.1	Ca_Kabuli_Chr07	10961546	GG	AA	AA	INTERGENIC			
SNP_49456_A_10961551	NC_021166.1	Ca_Kabuli_Chr07	10961551	AA	GG	GG	INTERGENIC			
SNP_49457_A_10961570	NC_021166.1	Ca_Kabuli_Chr07	10961570	TT	CC	CC	INTERGENIC			
SNP_49458_A_10961602	NC_021166.1	Ca_Kabuli_Chr07	10961602	CC	TT	TT	INTERGENIC			
SNP_49459_A_11025404	NC_021166.1	Ca_Kabuli_Chr07	11025404	AA	CC	CC	INTERGENIC			
SNP_49460_A_11030629	NC_021166.1	Ca_Kabuli_Chr07	11030629	AA	CC	CC	INTERGENIC			
SNP_49461_A_11031986	NC_021166.1	Ca_Kabuli_Chr07	11031986	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49463_A_11035255	NC_021166.1	Ca_Kabuli_Chr07	11035255	CC	TT	TT	INTERGENIC			
SNP_49464_A_11035626	NC_021166.1	Ca_Kabuli_Chr07	11035626	AA	TT	TT	INTERGENIC			
SNP_49465_A_11035973	NC_021166.1	Ca_Kabuli_Chr07	11035973	TT	CC	CC	INTERGENIC			
SNP_49466_A_11036038	NC_021166.1	Ca_Kabuli_Chr07	11036038	GG	AA	AA	INTERGENIC			
SNP_49467_A_11036088	NC_021166.1	Ca_Kabuli_Chr07	11036088	AA	GG	GG	INTERGENIC			
SNP_49468_A_11036092	NC_021166.1	Ca_Kabuli_Chr07	11036092	AA	GG	GG	INTERGENIC			
SNP_49469_A_11036343	NC_021166.1	Ca_Kabuli_Chr07	11036343	TT	CC	CC	INTERGENIC			
SNP_49470_A_11037033	NC_021166.1	Ca_Kabuli_Chr07	11037033	CC	AA	AA	INTERGENIC			
SNP_49471_A_11037049	NC_021166.1	Ca_Kabuli_Chr07	11037049	TT	AA	AA	INTERGENIC			
SNP_49472_A_11037059	NC_021166.1	Ca_Kabuli_Chr07	11037059	AA	GG	GG	INTERGENIC			
SNP_49473_A_11039186	NC_021166.1	Ca_Kabuli_Chr07	11039186	CC	AA	AA	INTERGENIC			
SNP_49474_A_11056656	NC_021166.1	Ca_Kabuli_Chr07	11056656	CC	TT	TT	INTERGENIC			
SNP_49475_A_11056662	NC_021166.1	Ca_Kabuli_Chr07	11056662	AA	GG	GG	INTERGENIC			
SNP_49476_A_11057708	NC_021166.1	Ca_Kabuli_Chr07	11057708	TT	CC	CC	INTERGENIC			
SNP_49477_A_11057783	NC_021166.1	Ca_Kabuli_Chr07	11057783	CC	TT	TT	INTERGENIC			
SNP_49478_A_11058812	NC_021166.1	Ca_Kabuli_Chr07	11058812	GG	AA	AA	INTERGENIC			
SNP_49479_A_11058892	NC_021166.1	Ca_Kabuli_Chr07	11058892	AA	GG	GG	INTERGENIC			
SNP_49480_A_11059055	NC_021166.1	Ca_Kabuli_Chr07	11059055	GG	AA	AA	INTERGENIC			
SNP_49481_A_11059065	NC_021166.1	Ca_Kabuli_Chr07	11059065	GG	AA	AA	INTERGENIC			
SNP_49482_A_11059075	NC_021166.1	Ca_Kabuli_Chr07	11059075	TT	GG	GG	INTERGENIC			
SNP_49483_A_11059087	NC_021166.1	Ca_Kabuli_Chr07	11059087	AA	GG	GG	INTERGENIC			
SNP_49484_A_11059096	NC_021166.1	Ca_Kabuli_Chr07	11059096	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49485_A_11063147	NC_021166.1	Ca_Kabuli_Chr07	11063147	AA	TT	TT	INTERGENIC		
SNP_49486_A_11063180	NC_021166.1	Ca_Kabuli_Chr07	11063180	TT	AA	AA	INTERGENIC		
SNP_49487_A_11063201	NC_021166.1	Ca_Kabuli_Chr07	11063201	TT	GG	GG	INTERGENIC		
SNP_49488_A_11065508	NC_021166.1	Ca_Kabuli_Chr07	11065508	AA	TT	TT	DRR	101497336	transcription factor NAI1-like
SNP_49490_A_11066520	NC_021166.1	Ca_Kabuli_Chr07	11066520	CC	TT	TT	INTRON	101497336	transcription factor NAI1-like
SNP_49491_A_11068236	NC_021166.1	Ca_Kabuli_Chr07	11068236	GG	AA	AA	INTRON	101497336	transcription factor NAI1-like
SNP_49492_A_11070415	NC_021166.1	Ca_Kabuli_Chr07	11070415	AA	TT	TT	URR	101497336	transcription factor NAI1-like
SNP_49494_A_11071130	NC_021166.1	Ca_Kabuli_Chr07	11071130	CC	TT	TT	INTERGENIC		
SNP_49495_A_11071142	NC_021166.1	Ca_Kabuli_Chr07	11071142	TT	CC	CC	INTERGENIC		
SNP_49496_A_11074238	NC_021166.1	Ca_Kabuli_Chr07	11074238	TT	AA	AA	INTRON	101494527	transcription factor bHLH18-like
SNP_49497_A_11074281	NC_021166.1	Ca_Kabuli_Chr07	11074281	TT	CC	CC	INTRON	101494527	transcription factor bHLH18-like
SNP_49499_A_11075024	NC_021166.1	Ca_Kabuli_Chr07	11075024	TT	CC	CC	INTRON	101494527	transcription factor bHLH18-like
SNP_49500_A_11075392	NC_021166.1	Ca_Kabuli_Chr07	11075392	CC	GG	GG	INTRON	101494527	transcription factor bHLH18-like
SNP_49501_A_11075767	NC_021166.1	Ca_Kabuli_Chr07	11075767	CC	GG	GG	INTRON	101494527	transcription factor bHLH18-like
SNP_49503_A_11076499	NC_021166.1	Ca_Kabuli_Chr07	11076499	AA	GG	GG	NON_SYNONYMOUS_CODING	101494527	transcription factor bHLH18-like
SNP_49504_A_11077673	NC_021166.1	Ca_Kabuli_Chr07	11077673	AA	GG	GG	INTRON	101494527	transcription factor bHLH18-like
SNP_49505_A_11077982	NC_021166.1	Ca_Kabuli_Chr07	11077982	AA	GG	GG	INTRON	101494527	transcription factor bHLH18-like
SNP_49506_A_11077989	NC_021166.1	Ca_Kabuli_Chr07	11077989	CC	AA	AA	INTRON	101494527	transcription factor bHLH18-like
SNP_49508_A_11081029	NC_021166.1	Ca_Kabuli_Chr07	11081029	GG	AA	AA	URR	101494527	transcription factor bHLH18-like
SNP_49509_A_11081099	NC_021166.1	Ca_Kabuli_Chr07	11081099	TT	CC	CC	URR	101494527	transcription factor bHLH18-like
SNP_49510_A_11082673	NC_021166.1	Ca_Kabuli_Chr07	11082673	GG	TT	TT	INTERGENIC		
SNP_49511_A_11083049	NC_021166.1	Ca_Kabuli_Chr07	11083049	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49512_A_11083069	NC_021166.1	Ca_Kabuli_Chr07	11083069	CC	GG	GG	INTERGENIC		
SNP_49513_A_11083389	NC_021166.1	Ca_Kabuli_Chr07	11083389	CC	GG	GG	INTERGENIC		
SNP_49514_A_11084802	NC_021166.1	Ca_Kabuli_Chr07	11084802	CC	GG	GG	INTERGENIC		
SNP_49515_A_11088169	NC_021166.1	Ca_Kabuli_Chr07	11088169	TT	CC	CC	URR	101497663	transcription factor bHLH19
SNP_49516_A_11088705	NC_021166.1	Ca_Kabuli_Chr07	11088705	GG	CC	CC	INTERGENIC		
SNP_49517_A_11088709	NC_021166.1	Ca_Kabuli_Chr07	11088709	AA	CC	CC	INTERGENIC		
SNP_49518_A_11088710	NC_021166.1	Ca_Kabuli_Chr07	11088710	AA	GG	GG	INTERGENIC		
SNP_49519_A_11090576	NC_021166.1	Ca_Kabuli_Chr07	11090576	AA	CC	CC	INTERGENIC		
SNP_49520_A_11091293	NC_021166.1	Ca_Kabuli_Chr07	11091293	CC	TT	TT	INTERGENIC		
SNP_49521_A_11091317	NC_021166.1	Ca_Kabuli_Chr07	11091317	AA	GG	GG	INTERGENIC		
SNP_49523_A_11093377	NC_021166.1	Ca_Kabuli_Chr07	11093377	AA	GG	GG	INTERGENIC		
SNP_49524_A_11093388	NC_021166.1	Ca_Kabuli_Chr07	11093388	CC	GG	GG	INTERGENIC		
SNP_49525_A_11094257	NC_021166.1	Ca_Kabuli_Chr07	11094257	AA	GG	GG	INTERGENIC		
SNP_49526_A_11096468	NC_021166.1	Ca_Kabuli_Chr07	11096468	CC	TT	TT	INTERGENIC		
SNP_49527_A_11096974	NC_021166.1	Ca_Kabuli_Chr07	11096974	GG	TT	TT	INTERGENIC		
SNP_49528_A_11099784	NC_021166.1	Ca_Kabuli_Chr07	11099784	CC	AA	AA	INTERGENIC		
SNP_49529_A_11100016	NC_021166.1	Ca_Kabuli_Chr07	11100016	TT	AA	AA	INTERGENIC		
SNP_49530_A_11100038	NC_021166.1	Ca_Kabuli_Chr07	11100038	CC	TT	TT	INTERGENIC		
SNP_49531_A_11100149	NC_021166.1	Ca_Kabuli_Chr07	11100149	TT	CC	CC	INTERGENIC		
SNP_49532_A_11100899	NC_021166.1	Ca_Kabuli_Chr07	11100899	CC	AA	AA	DRR	101494846	probable hexokinase-like 2 protein
SNP_49533_A_11101079	NC_021166.1	Ca_Kabuli_Chr07	11101079	TT	CC	CC	DRR	101494846	probable hexokinase-like 2 protein
SNP_49534_A_11102177	NC_021166.1	Ca_Kabuli_Chr07	11102177	TT	GG	GG	INTRON	101494846	probable hexokinase-like 2 protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49535_A_11103244	NC_021166.1	Ca_Kabuli_Chr07	11103244	AA	CC	CC	INTRON	101494846	probable hexokinase-like 2 protein
SNP_49536_A_11103245	NC_021166.1	Ca_Kabuli_Chr07	11103245	TT	AA	AA	INTRON	101494846	probable hexokinase-like 2 protein
SNP_49537_A_11103613	NC_021166.1	Ca_Kabuli_Chr07	11103613	CC	AA	AA	SYNONYMOUS_CODING	101494846	probable hexokinase-like 2 protein
SNP_49538_A_11113999	NC_021166.1	Ca_Kabuli_Chr07	11113999	TT	GG	GG	SYNONYMOUS_CODING	101497995	leucine-rich repeat receptor-like serine/threonine-protein kinase BAM1
SNP_49539_A_11114258	NC_021166.1	Ca_Kabuli_Chr07	11114258	TT	CC	CC	SYNONYMOUS_CODING	101497995	leucine-rich repeat receptor-like serine/threonine-protein kinase BAM1
SNP_49540_A_11118446	NC_021166.1	Ca_Kabuli_Chr07	11118446	AA	CC	CC	URR	101497995	leucine-rich repeat receptor-like serine/threonine-protein kinase BAM1
SNP_49542_A_11119633	NC_021166.1	Ca_Kabuli_Chr07	11119633	TT	GG	GG	INTERGENIC		
SNP_49544_A_11122260	NC_021166.1	Ca_Kabuli_Chr07	11122260	GG	TT	TT	INTERGENIC		
SNP_49546_A_11122570	NC_021166.1	Ca_Kabuli_Chr07	11122570	TT	CC	CC	INTERGENIC		
SNP_49547_A_11122577	NC_021166.1	Ca_Kabuli_Chr07	11122577	CC	GG	GG	INTERGENIC		
SNP_49548_A_11128417	NC_021166.1	Ca_Kabuli_Chr07	11128417	AA	CC	CC	INTERGENIC		
SNP_49549_A_11128435	NC_021166.1	Ca_Kabuli_Chr07	11128435	GG	AA	AA	INTERGENIC		
SNP_49550_A_11128444	NC_021166.1	Ca_Kabuli_Chr07	11128444	TT	CC	CC	INTERGENIC		
SNP_49551_A_11132764	NC_021166.1	Ca_Kabuli_Chr07	11132764	CC	TT	TT	INTERGENIC		
SNP_49552_A_11133051	NC_021166.1	Ca_Kabuli_Chr07	11133051	TT	CC	CC	INTERGENIC		
SNP_49553_A_11133083	NC_021166.1	Ca_Kabuli_Chr07	11133083	CC	TT	TT	INTERGENIC		
SNP_49554_A_11133340	NC_021166.1	Ca_Kabuli_Chr07	11133340	TT	CC	CC	INTERGENIC		
SNP_49555_A_11139751	NC_021166.1	Ca_Kabuli_Chr07	11139751	GG	AA	AA	DRR	101498664	dentin sialophosphoprotein
SNP_49556_A_11146036	NC_021166.1	Ca_Kabuli_Chr07	11146036	TT	AA	AA	URR	101498664	dentin sialophosphoprotein
SNP_49557_A_11147429	NC_021166.1	Ca_Kabuli_Chr07	11147429	GG	AA	AA	INTERGENIC		
SNP_49558_A_11147453	NC_021166.1	Ca_Kabuli_Chr07	11147453	CC	AA	AA	INTERGENIC		
SNP_49559_A_11147482	NC_021166.1	Ca_Kabuli_Chr07	11147482	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49560_A_11151329	NC_021166.1	Ca_Kabuli_Chr07	11151329	GG		AA	AA	INTERGENIC			
SNP_49561_A_11151331	NC_021166.1	Ca_Kabuli_Chr07	11151331	GG		AA	AA	INTERGENIC			
SNP_49562_A_11154348	NC_021166.1	Ca_Kabuli_Chr07	11154348	CC		GG	GG	INTERGENIC			
SNP_49564_A_11154482	NC_021166.1	Ca_Kabuli_Chr07	11154482	GG		AA	AA	INTERGENIC			
SNP_49565_A_11154624	NC_021166.1	Ca_Kabuli_Chr07	11154624	CC		TT	TT	INTERGENIC			
SNP_49566_A_11154813	NC_021166.1	Ca_Kabuli_Chr07	11154813	GG		AA	AA	INTERGENIC			
SNP_49567_A_11154837	NC_021166.1	Ca_Kabuli_Chr07	11154837	TT		CC	CC	INTERGENIC			
SNP_49568_A_11160249	NC_021166.1	Ca_Kabuli_Chr07	11160249	TT		CC	CC	INTERGENIC			
SNP_49569_A_11160610	NC_021166.1	Ca_Kabuli_Chr07	11160610	AA		GG	GG	INTERGENIC			
SNP_49570_A_11163443	NC_021166.1	Ca_Kabuli_Chr07	11163443	TT		CC	CC	INTERGENIC			
SNP_49571_A_11164370	NC_021166.1	Ca_Kabuli_Chr07	11164370	GG		AA	AA	INTERGENIC			
SNP_49572_A_11164691	NC_021166.1	Ca_Kabuli_Chr07	11164691	GG		AA	AA	INTERGENIC			
SNP_49573_A_11165410	NC_021166.1	Ca_Kabuli_Chr07	11165410	CC		GG	GG	INTERGENIC			
SNP_49574_A_11165801	NC_021166.1	Ca_Kabuli_Chr07	11165801	AA		TT	TT	INTERGENIC			
SNP_49575_A_11166070	NC_021166.1	Ca_Kabuli_Chr07	11166070	TT		GG	GG	DRR		101498988	EPIDERMAL PATTERNING FACTOR-like protein 2
SNP_49576_A_11166138	NC_021166.1	Ca_Kabuli_Chr07	11166138	CC		TT	TT	DRR		101498988	EPIDERMAL PATTERNING FACTOR-like protein 2
SNP_49578_A_11166410	NC_021166.1	Ca_Kabuli_Chr07	11166410	AA		CC	CC	DRR		101498988	EPIDERMAL PATTERNING FACTOR-like protein 2
SNP_49579_A_11166573	NC_021166.1	Ca_Kabuli_Chr07	11166573	CC		GG	GG	DRR		101498988	EPIDERMAL PATTERNING FACTOR-like protein 2
SNP_49580_A_11170731	NC_021166.1	Ca_Kabuli_Chr07	11170731	GG		CC	CC	INTERGENIC			
SNP_49581_A_11171630	NC_021166.1	Ca_Kabuli_Chr07	11171630	AA		GG	GG	INTERGENIC			
SNP_49582_A_11171632	NC_021166.1	Ca_Kabuli_Chr07	11171632	AA		CC	CC	INTERGENIC			
SNP_49583_A_11171633	NC_021166.1	Ca_Kabuli_Chr07	11171633	AA		GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49584_A_11173232	NC_021166.1	Ca_Kabuli_Chr07	11173232	AA	GG	GG	INTERGENIC		
SNP_49585_A_11180678	NC_021166.1	Ca_Kabuli_Chr07	11180678	CC	TT	TT	INTERGENIC		
SNP_49586_A_11180684	NC_021166.1	Ca_Kabuli_Chr07	11180684	TT	GG	GG	INTERGENIC		
SNP_49587_A_11180715	NC_021166.1	Ca_Kabuli_Chr07	11180715	CC	AA	AA	INTERGENIC		
SNP_49589_A_11181110	NC_021166.1	Ca_Kabuli_Chr07	11181110	TT	CC	CC	DRR	101499308	probable xyloglucan endotransglucosylase/hydrolase protein 6
SNP_49590_A_11182431	NC_021166.1	Ca_Kabuli_Chr07	11182431	AA	CC	CC	INTRON	101499308	probable xyloglucan endotransglucosylase/hydrolase protein 6
SNP_49591_A_11182697	NC_021166.1	Ca_Kabuli_Chr07	11182697	TT	GG	GG	SYNONYMOUS_CODING	101499308	probable xyloglucan endotransglucosylase/hydrolase protein 6
SNP_49592_A_11182817	NC_021166.1	Ca_Kabuli_Chr07	11182817	AA	TT	TT	SYNONYMOUS_CODING	101499308	probable xyloglucan endotransglucosylase/hydrolase protein 6
SNP_49593_A_11188082	NC_021166.1	Ca_Kabuli_Chr07	11188082	CC	TT	TT	INTERGENIC		
SNP_49594_A_11188130	NC_021166.1	Ca_Kabuli_Chr07	11188130	CC	TT	TT	INTERGENIC		
SNP_49595_A_11188135	NC_021166.1	Ca_Kabuli_Chr07	11188135	GG	CC	CC	INTERGENIC		
SNP_49596_A_11188160	NC_021166.1	Ca_Kabuli_Chr07	11188160	GG	TT	TT	INTERGENIC		
SNP_49597_A_11188275	NC_021166.1	Ca_Kabuli_Chr07	11188275	AA	GG	GG	INTERGENIC		
SNP_49598_A_11188850	NC_021166.1	Ca_Kabuli_Chr07	11188850	AA	GG	GG	INTERGENIC		
SNP_49599_A_11189005	NC_021166.1	Ca_Kabuli_Chr07	11189005	GG	TT	TT	INTERGENIC		
SNP_49600_A_11189148	NC_021166.1	Ca_Kabuli_Chr07	11189148	AA	CC	CC	INTERGENIC		
SNP_49601_A_11189160	NC_021166.1	Ca_Kabuli_Chr07	11189160	GG	AA	AA	INTERGENIC		
SNP_49602_A_11189161	NC_021166.1	Ca_Kabuli_Chr07	11189161	GG	CC	CC	INTERGENIC		
SNP_49603_A_11189196	NC_021166.1	Ca_Kabuli_Chr07	11189196	TT	CC	CC	INTERGENIC		
SNP_49604_A_11194350	NC_021166.1	Ca_Kabuli_Chr07	11194350	AA	TT	TT	URR	101499622	homeobox-leucine zipper protein HAT22
SNP_49605_A_11195245	NC_021166.1	Ca_Kabuli_Chr07	11195245	CC	TT	TT	URR	101499622	homeobox-leucine zipper protein HAT22
SNP_49606_A_11195603	NC_021166.1	Ca_Kabuli_Chr07	11195603	TT	AA	AA	URR	101499622	homeobox-leucine zipper protein HAT22

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49607_A_11195959	NC_021166.1	Ca_Kabuli_Chr07	11195959	TT	GG	GG	INTERGENIC			
SNP_49608_A_11195973	NC_021166.1	Ca_Kabuli_Chr07	11195973	CC	TT	TT	INTERGENIC			
SNP_49609_A_11197331	NC_021166.1	Ca_Kabuli_Chr07	11197331	TT	CC	CC	INTERGENIC			
SNP_49610_A_11197559	NC_021166.1	Ca_Kabuli_Chr07	11197559	GG	TT	TT	INTERGENIC			
SNP_49611_A_11197562	NC_021166.1	Ca_Kabuli_Chr07	11197562	AA	GG	GG	INTERGENIC			
SNP_49612_A_11198388	NC_021166.1	Ca_Kabuli_Chr07	11198388	CC	AA	AA	INTERGENIC			
SNP_49613_A_11199372	NC_021166.1	Ca_Kabuli_Chr07	11199372	CC	TT	TT	INTERGENIC			
SNP_49614_A_11203432	NC_021166.1	Ca_Kabuli_Chr07	11203432	CC	TT	TT	INTERGENIC			
SNP_49615_A_11203435	NC_021166.1	Ca_Kabuli_Chr07	11203435	GG	AA	AA	INTERGENIC			
SNP_49617_A_11205878	NC_021166.1	Ca_Kabuli_Chr07	11205878	AA	CC	CC	INTERGENIC			
SNP_49618_A_11207674	NC_021166.1	Ca_Kabuli_Chr07	11207674	AA	GG	GG	INTERGENIC			
SNP_49619_A_11207927	NC_021166.1	Ca_Kabuli_Chr07	11207927	GG	CC	CC	INTERGENIC			
SNP_49620_A_11207944	NC_021166.1	Ca_Kabuli_Chr07	11207944	CC	TT	TT	INTERGENIC			
SNP_49621_A_11207946	NC_021166.1	Ca_Kabuli_Chr07	11207946	CC	TT	TT	INTERGENIC			
SNP_49622_A_11207947	NC_021166.1	Ca_Kabuli_Chr07	11207947	TT	GG	GG	INTERGENIC			
SNP_49623_A_11207956	NC_021166.1	Ca_Kabuli_Chr07	11207956	CC	TT	TT	INTERGENIC			
SNP_49624_A_11207959	NC_021166.1	Ca_Kabuli_Chr07	11207959	TT	CC	CC	INTERGENIC			
SNP_49625_A_11207963	NC_021166.1	Ca_Kabuli_Chr07	11207963	AA	GG	GG	INTERGENIC			
SNP_49626_A_11207972	NC_021166.1	Ca_Kabuli_Chr07	11207972	AA	TT	TT	INTERGENIC			
SNP_49627_A_11207977	NC_021166.1	Ca_Kabuli_Chr07	11207977	CC	TT	TT	INTERGENIC			
SNP_49628_A_11208785	NC_021166.1	Ca_Kabuli_Chr07	11208785	AA	GG	GG	INTERGENIC			
SNP_49629_A_11209077	NC_021166.1	Ca_Kabuli_Chr07	11209077	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49630_A_11209323	NC_021166.1	Ca_Kabuli_Chr07	11209323	GG	AA	AA	INTERGENIC		
SNP_49631_A_11209389	NC_021166.1	Ca_Kabuli_Chr07	11209389	GG	AA	AA	INTERGENIC		
SNP_49632_A_11209563	NC_021166.1	Ca_Kabuli_Chr07	11209563	TT	CC	CC	INTERGENIC		
SNP_49633_A_11209670	NC_021166.1	Ca_Kabuli_Chr07	11209670	GG	AA	AA	INTERGENIC		
SNP_49634_A_11209821	NC_021166.1	Ca_Kabuli_Chr07	11209821	GG	AA	AA	INTERGENIC		
SNP_49635_A_11215305	NC_021166.1	Ca_Kabuli_Chr07	11215305	TT	CC	CC	INTRON	101499929	lysosomal Pro-X carboxypeptidase
SNP_49636_A_11215783	NC_021166.1	Ca_Kabuli_Chr07	11215783	GG	AA	AA	INTRON	101499929	lysosomal Pro-X carboxypeptidase
SNP_49637_A_11218055	NC_021166.1	Ca_Kabuli_Chr07	11218055	AA	TT	TT	INTRON	101499929	lysosomal Pro-X carboxypeptidase
SNP_49638_A_11218424	NC_021166.1	Ca_Kabuli_Chr07	11218424	AA	GG	GG	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49639_A_11218427	NC_021166.1	Ca_Kabuli_Chr07	11218427	AA	GG	GG	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49640_A_11218429	NC_021166.1	Ca_Kabuli_Chr07	11218429	AA	TT	TT	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49641_A_11218569	NC_021166.1	Ca_Kabuli_Chr07	11218569	GG	AA	AA	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49642_A_11218892	NC_021166.1	Ca_Kabuli_Chr07	11218892	TT	CC	CC	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49643_A_11219217	NC_021166.1	Ca_Kabuli_Chr07	11219217	AA	GG	GG	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49644_A_11220102	NC_021166.1	Ca_Kabuli_Chr07	11220102	AA	GG	GG	URR	101499929	lysosomal Pro-X carboxypeptidase
SNP_49645_A_11221231	NC_021166.1	Ca_Kabuli_Chr07	11221231	AA	GG	GG	INTERGENIC		
SNP_49646_A_11221255	NC_021166.1	Ca_Kabuli_Chr07	11221255	AA	GG	GG	INTERGENIC		
SNP_49647_A_11221293	NC_021166.1	Ca_Kabuli_Chr07	11221293	CC	TT	TT	INTERGENIC		
SNP_49648_A_11223972	NC_021166.1	Ca_Kabuli_Chr07	11223972	TT	CC	CC	INTRON	101500271	protein CROWDED NUCLEI 4-like
SNP_49651_A_11230369	NC_021166.1	Ca_Kabuli_Chr07	11230369	CC	GG	GG	DRR	101500586	transcription factor RAX3
SNP_49653_A_11231519	NC_021166.1	Ca_Kabuli_Chr07	11231519	TT	CC	CC	INTERGENIC		
SNP_49654_A_11231620	NC_021166.1	Ca_Kabuli_Chr07	11231620	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49655_A_11231835	NC_021166.1	Ca_Kabuli_Chr07	11231835	AA	GG	GG	INTERGENIC			
SNP_49656_A_11231940	NC_021166.1	Ca_Kabuli_Chr07	11231940	AA	TT	TT	INTERGENIC			
SNP_49657_A_11238669	NC_021166.1	Ca_Kabuli_Chr07	11238669	TT	AA	AA	INTERGENIC			
SNP_49658_A_11238682	NC_021166.1	Ca_Kabuli_Chr07	11238682	TT	CC	CC	INTERGENIC			
SNP_49659_A_11238714	NC_021166.1	Ca_Kabuli_Chr07	11238714	CC	TT	TT	INTERGENIC			
SNP_49660_A_11239961	NC_021166.1	Ca_Kabuli_Chr07	11239961	CC	TT	TT	INTERGENIC			
SNP_49661_A_11239969	NC_021166.1	Ca_Kabuli_Chr07	11239969	TT	CC	CC	INTERGENIC			
SNP_49662_A_11240013	NC_021166.1	Ca_Kabuli_Chr07	11240013	TT	CC	CC	INTERGENIC			
SNP_49663_A_11246166	NC_021166.1	Ca_Kabuli_Chr07	11246166	CC	GG	GG	INTERGENIC			
SNP_49664_A_11246214	NC_021166.1	Ca_Kabuli_Chr07	11246214	GG	AA	AA	INTERGENIC			
SNP_49665_A_11246427	NC_021166.1	Ca_Kabuli_Chr07	11246427	CC	TT	TT	INTERGENIC			
SNP_49666_A_11246637	NC_021166.1	Ca_Kabuli_Chr07	11246637	AA	TT	TT	INTERGENIC			
SNP_49667_A_11246742	NC_021166.1	Ca_Kabuli_Chr07	11246742	TT	CC	CC	INTERGENIC			
SNP_49668_A_11246743	NC_021166.1	Ca_Kabuli_Chr07	11246743	GG	AA	AA	INTERGENIC			
SNP_49670_A_11247359	NC_021166.1	Ca_Kabuli_Chr07	11247359	GG	TT	TT	INTERGENIC			
SNP_49671_A_11251652	NC_021166.1	Ca_Kabuli_Chr07	11251652	TT	GG	GG	INTERGENIC			
SNP_49672_A_11251881	NC_021166.1	Ca_Kabuli_Chr07	11251881	CC	GG	GG	INTERGENIC			
SNP_49673_A_11260321	NC_021166.1	Ca_Kabuli_Chr07	11260321	AA	TT	TT	URR	101501111	1-aminocyclopropane-1-carboxylate synthase 3-like	
SNP_49674_A_11260409	NC_021166.1	Ca_Kabuli_Chr07	11260409	CC	TT	TT	URR	101501111	1-aminocyclopropane-1-carboxylate synthase 3-like	
SNP_49675_A_11261138	NC_021166.1	Ca_Kabuli_Chr07	11261138	AA	GG	GG	INTERGENIC			
SNP_49676_A_11263945	NC_021166.1	Ca_Kabuli_Chr07	11263945	CC	TT	TT	INTERGENIC			
SNP_49677_A_11265433	NC_021166.1	Ca_Kabuli_Chr07	11265433	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49678_A_11265879	NC_021166.1	Ca_Kabuli_Chr07	11265879	CC	AA	AA	INTERGENIC		
SNP_49679_A_11267998	NC_021166.1	Ca_Kabuli_Chr07	11267998	GG	AA	AA	INTERGENIC		
SNP_49681_A_11268585	NC_021166.1	Ca_Kabuli_Chr07	11268585	AA	GG	GG	DRR	101501424	uncharacterized protein At3g49720
SNP_49683_A_11274008	NC_021166.1	Ca_Kabuli_Chr07	11274008	GG	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49684_A_11274159	NC_021166.1	Ca_Kabuli_Chr07	11274159	GG	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49685_A_11274162	NC_021166.1	Ca_Kabuli_Chr07	11274162	TT	CC	CC	URR	101501424	uncharacterized protein At3g49720
SNP_49686_A_11274179	NC_021166.1	Ca_Kabuli_Chr07	11274179	CC	GG	GG	URR	101501424	uncharacterized protein At3g49720
SNP_49687_A_11274185	NC_021166.1	Ca_Kabuli_Chr07	11274185	CC	TT	TT	URR	101501424	uncharacterized protein At3g49720
SNP_49688_A_11274388	NC_021166.1	Ca_Kabuli_Chr07	11274388	CC	TT	TT	URR	101501424	uncharacterized protein At3g49720
SNP_49689_A_11274480	NC_021166.1	Ca_Kabuli_Chr07	11274480	TT	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49690_A_11274505	NC_021166.1	Ca_Kabuli_Chr07	11274505	TT	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49691_A_11274807	NC_021166.1	Ca_Kabuli_Chr07	11274807	GG	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49692_A_11274816	NC_021166.1	Ca_Kabuli_Chr07	11274816	GG	AA	AA	URR	101501424	uncharacterized protein At3g49720
SNP_49693_A_11275500	NC_021166.1	Ca_Kabuli_Chr07	11275500	GG	AA	AA	INTERGENIC		
SNP_49694_A_11284152	NC_021166.1	Ca_Kabuli_Chr07	11284152	AA	GG	GG	DRR	101501954	AP2-like ethylene-responsive transcription factor ANT
SNP_49695_A_11284161	NC_021166.1	Ca_Kabuli_Chr07	11284161	TT	CC	CC	DRR	101501954	AP2-like ethylene-responsive transcription factor ANT
SNP_49696_A_11284164	NC_021166.1	Ca_Kabuli_Chr07	11284164	CC	TT	TT	DRR	101501954	AP2-like ethylene-responsive transcription factor ANT
SNP_49698_A_11289263	NC_021166.1	Ca_Kabuli_Chr07	11289263	AA	GG	GG	URR	101501954	AP2-like ethylene-responsive transcription factor ANT
SNP_49699_A_11289703	NC_021166.1	Ca_Kabuli_Chr07	11289703	TT	CC	CC	URR	101501954	AP2-like ethylene-responsive transcription factor ANT
SNP_49700_A_11299745	NC_021166.1	Ca_Kabuli_Chr07	11299745	GG	TT	TT	URR	101502495	prostamide/prostaglandin F synthase
SNP_49701_A_11300825	NC_021166.1	Ca_Kabuli_Chr07	11300825	TT	CC	CC	URR	101502495	prostamide/prostaglandin F synthase
SNP_49702_A_11302474	NC_021166.1	Ca_Kabuli_Chr07	11302474	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49703_A_11306422	NC_021166.1	Ca_Kabuli_Chr07	11306422	TT	CC	CC	INTERGENIC			
SNP_49704_A_11307509	NC_021166.1	Ca_Kabuli_Chr07	11307509	AA	CC	CC	INTERGENIC			
SNP_49705_A_11308599	NC_021166.1	Ca_Kabuli_Chr07	11308599	AA	CC	CC	INTERGENIC			
SNP_49706_A_11308601	NC_021166.1	Ca_Kabuli_Chr07	11308601	GG	TT	TT	INTERGENIC			
SNP_49707_A_11308700	NC_021166.1	Ca_Kabuli_Chr07	11308700	AA	TT	TT	INTERGENIC			
SNP_49708_A_11313493	NC_021166.1	Ca_Kabuli_Chr07	11313493	AA	GG	GG	INTERGENIC			
SNP_49710_A_11313535	NC_021166.1	Ca_Kabuli_Chr07	11313535	GG	AA	AA	INTERGENIC			
SNP_49711_A_11313574	NC_021166.1	Ca_Kabuli_Chr07	11313574	GG	AA	AA	INTERGENIC			
SNP_49712_A_11313847	NC_021166.1	Ca_Kabuli_Chr07	11313847	TT	CC	CC	INTERGENIC			
SNP_49713_A_11313856	NC_021166.1	Ca_Kabuli_Chr07	11313856	AA	GG	GG	INTERGENIC			
SNP_49714_A_11321402	NC_021166.1	Ca_Kabuli_Chr07	11321402	GG	AA	AA	INTERGENIC			
SNP_49715_A_11321422	NC_021166.1	Ca_Kabuli_Chr07	11321422	TT	CC	CC	INTERGENIC			
SNP_49716_A_11321682	NC_021166.1	Ca_Kabuli_Chr07	11321682	GG	AA	AA	INTERGENIC			
SNP_49717_A_11321707	NC_021166.1	Ca_Kabuli_Chr07	11321707	CC	AA	AA	INTERGENIC			
SNP_49718_A_11321977	NC_021166.1	Ca_Kabuli_Chr07	11321977	CC	TT	TT	INTERGENIC			
SNP_49719_A_11322310	NC_021166.1	Ca_Kabuli_Chr07	11322310	AA	GG	GG	INTERGENIC			
SNP_49720_A_11322357	NC_021166.1	Ca_Kabuli_Chr07	11322357	CC	TT	TT	INTERGENIC			
SNP_49721_A_11322500	NC_021166.1	Ca_Kabuli_Chr07	11322500	GG	AA	AA	INTERGENIC			
SNP_49722_A_11326020	NC_021166.1	Ca_Kabuli_Chr07	11326020	AA	TT	TT	URR	101502799	basic leucine zipper 43-like	
SNP_49723_A_11326386	NC_021166.1	Ca_Kabuli_Chr07	11326386	AA	TT	TT	URR	101502799	basic leucine zipper 43-like	
SNP_49724_A_11332990	NC_021166.1	Ca_Kabuli_Chr07	11332990	TT	AA	AA	INTERGENIC			
SNP_49725_A_11333060	NC_021166.1	Ca_Kabuli_Chr07	11333060	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49726_A_11333340	NC_021166.1	Ca_Kabuli_Chr07	11333340	AA	GG	GG	INTERGENIC			
SNP_49727_A_11333692	NC_021166.1	Ca_Kabuli_Chr07	11333692	CC	AA	AA	INTERGENIC			
SNP_49728_A_11333694	NC_021166.1	Ca_Kabuli_Chr07	11333694	CC	AA	AA	INTERGENIC			
SNP_49729_A_11333702	NC_021166.1	Ca_Kabuli_Chr07	11333702	GG	TT	TT	INTERGENIC			
SNP_49730_A_11333957	NC_021166.1	Ca_Kabuli_Chr07	11333957	TT	CC	CC	INTERGENIC			
SNP_49731_A_11334004	NC_021166.1	Ca_Kabuli_Chr07	11334004	GG	AA	AA	INTERGENIC			
SNP_49732_A_11334024	NC_021166.1	Ca_Kabuli_Chr07	11334024	CC	TT	TT	INTERGENIC			
SNP_49733_A_11334362	NC_021166.1	Ca_Kabuli_Chr07	11334362	GG	CC	CC	INTERGENIC			
SNP_49734_A_11334374	NC_021166.1	Ca_Kabuli_Chr07	11334374	AA	CC	CC	INTERGENIC			
SNP_49735_A_11334765	NC_021166.1	Ca_Kabuli_Chr07	11334765	AA	CC	CC	INTERGENIC			
SNP_49736_A_11338951	NC_021166.1	Ca_Kabuli_Chr07	11338951	TT	GG	GG	INTERGENIC			
SNP_49737_A_11339142	NC_021166.1	Ca_Kabuli_Chr07	11339142	TT	CC	CC	INTERGENIC			
SNP_49738_A_11339146	NC_021166.1	Ca_Kabuli_Chr07	11339146	TT	GG	GG	INTERGENIC			
SNP_49739_A_11340229	NC_021166.1	Ca_Kabuli_Chr07	11340229	CC	GG	GG	DRR	101503119	Unknown function	
SNP_49740_A_11341820	NC_021166.1	Ca_Kabuli_Chr07	11341820	CC	GG	GG	URR	101503119	Unknown function	
SNP_49741_A_11342512	NC_021166.1	Ca_Kabuli_Chr07	11342512	TT	CC	CC	URR	101503119	Unknown function	
SNP_49742_A_11342513	NC_021166.1	Ca_Kabuli_Chr07	11342513	AA	TT	TT	URR	101503119	Unknown function	
SNP_49743_A_11343486	NC_021166.1	Ca_Kabuli_Chr07	11343486	GG	AA	AA	URR	101503119	Unknown function	
SNP_49745_A_11343818	NC_021166.1	Ca_Kabuli_Chr07	11343818	TT	AA	AA	INTERGENIC			
SNP_49746_A_11344040	NC_021166.1	Ca_Kabuli_Chr07	11344040	CC	TT	TT	DRR	101503444	uncharacterized LOC101503444	
SNP_49748_A_11347811	NC_021166.1	Ca_Kabuli_Chr07	11347811	CC	TT	TT	INTERGENIC			
SNP_49749_A_11349915	NC_021166.1	Ca_Kabuli_Chr07	11349915	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49750_A_11350606	NC_021166.1	Ca_Kabuli_Chr07	11350606	AA	TT	TT	INTERGENIC		
SNP_49751_A_11355284	NC_021166.1	Ca_Kabuli_Chr07	11355284	AA	CC	CC	INTERGENIC		
SNP_49752_A_11357802	NC_021166.1	Ca_Kabuli_Chr07	11357802	CC	TT	TT	INTERGENIC		
SNP_49753_A_11357889	NC_021166.1	Ca_Kabuli_Chr07	11357889	TT	CC	CC	INTERGENIC		
SNP_49754_A_11358025	NC_021166.1	Ca_Kabuli_Chr07	11358025	TT	CC	CC	INTERGENIC		
SNP_49755_A_11358033	NC_021166.1	Ca_Kabuli_Chr07	11358033	CC	TT	TT	INTERGENIC		
SNP_49756_A_11358058	NC_021166.1	Ca_Kabuli_Chr07	11358058	TT	CC	CC	INTERGENIC		
SNP_49757_A_11358062	NC_021166.1	Ca_Kabuli_Chr07	11358062	AA	GG	GG	INTERGENIC		
SNP_49758_A_11359534	NC_021166.1	Ca_Kabuli_Chr07	11359534	CC	GG	GG	INTERGENIC		
SNP_49759_A_11373701	NC_021166.1	Ca_Kabuli_Chr07	11373701	CC	TT	TT	INTERGENIC		
SNP_49760_A_11373702	NC_021166.1	Ca_Kabuli_Chr07	11373702	TT	CC	CC	INTERGENIC		
SNP_49761_A_11374129	NC_021166.1	Ca_Kabuli_Chr07	11374129	CC	GG	GG	INTERGENIC		
SNP_49763_A_11377124	NC_021166.1	Ca_Kabuli_Chr07	11377124	CC	TT	TT	DRR	101503782	uncharacterized LOC101503782
SNP_49764_A_11377662	NC_021166.1	Ca_Kabuli_Chr07	11377662	TT	GG	GG	DRR	101503782	uncharacterized LOC101503782
SNP_49765_A_11380591	NC_021166.1	Ca_Kabuli_Chr07	11380591	CC	TT	TT	URR	101503782	uncharacterized LOC101503782
SNP_49766_A_11382353	NC_021166.1	Ca_Kabuli_Chr07	11382353	TT	CC	CC	DRR	101504105	uncharacterized LOC101504105
SNP_49767_A_11382366	NC_021166.1	Ca_Kabuli_Chr07	11382366	CC	TT	TT	DRR	101504105	uncharacterized LOC101504105
SNP_49768_A_11395961	NC_021166.1	Ca_Kabuli_Chr07	11395961	GG	AA	AA	URR	101504416	histone H3.3
SNP_49770_A_11397587	NC_021166.1	Ca_Kabuli_Chr07	11397587	GG	CC	CC	DRR	101504736	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial
SNP_49771_A_11403285	NC_021166.1	Ca_Kabuli_Chr07	11403285	AA	TT	TT	URR	101504736	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial
SNP_49772_A_11404505	NC_021166.1	Ca_Kabuli_Chr07	11404505	GG	TT	TT	INTERGENIC		
SNP_49773_A_11405407	NC_021166.1	Ca_Kabuli_Chr07	11405407	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49774_A_11406156	NC_021166.1	Ca_Kabuli_Chr07	11406156	CC	TT	TT	INTERGENIC		
SNP_49775_A_11406257	NC_021166.1	Ca_Kabuli_Chr07	11406257	CC	TT	TT	INTERGENIC		
SNP_49776_A_11406480	NC_021166.1	Ca_Kabuli_Chr07	11406480	GG	TT	TT	INTERGENIC		
SNP_49777_A_11406502	NC_021166.1	Ca_Kabuli_Chr07	11406502	TT	GG	GG	INTERGENIC		
SNP_49778_A_11408050	NC_021166.1	Ca_Kabuli_Chr07	11408050	GG	CC	CC	INTERGENIC		
SNP_49779_A_11411269	NC_021166.1	Ca_Kabuli_Chr07	11411269	CC	TT	TT	INTERGENIC		
SNP_49780_A_11411270	NC_021166.1	Ca_Kabuli_Chr07	11411270	TT	AA	AA	INTERGENIC		
SNP_49781_A_11411287	NC_021166.1	Ca_Kabuli_Chr07	11411287	GG	AA	AA	INTERGENIC		
SNP_49782_A_11411574	NC_021166.1	Ca_Kabuli_Chr07	11411574	AA	TT	TT	INTERGENIC		
SNP_49784_A_11413876	NC_021166.1	Ca_Kabuli_Chr07	11413876	CC	AA	AA	URR	101505061	telomere repeat-binding factor 2
SNP_49785_A_11415632	NC_021166.1	Ca_Kabuli_Chr07	11415632	TT	CC	CC	INTERGENIC		
SNP_49786_A_11421214	NC_021166.1	Ca_Kabuli_Chr07	11421214	GG	AA	AA	INTRON	101505714	uncharacterized LOC101505714
SNP_49787_A_11421219	NC_021166.1	Ca_Kabuli_Chr07	11421219	GG	AA	AA	INTRON	101505714	uncharacterized LOC101505714
SNP_49788_A_11421512	NC_021166.1	Ca_Kabuli_Chr07	11421512	AA	GG	GG	INTRON	101505714	uncharacterized LOC101505714
SNP_49789_A_11422673	NC_021166.1	Ca_Kabuli_Chr07	11422673	AA	GG	GG	SYNONYMOUS_CODING	101505714	uncharacterized LOC101505714
SNP_49792_A_11430892	NC_021166.1	Ca_Kabuli_Chr07	11430892	CC	GG	GG	URR	101506038	protein SHORT-ROOT-like
SNP_49793_A_11433207	NC_021166.1	Ca_Kabuli_Chr07	11433207	TT	AA	AA	INTERGENIC		
SNP_49794_A_11433226	NC_021166.1	Ca_Kabuli_Chr07	11433226	AA	GG	GG	INTERGENIC		
SNP_49795_A_11433253	NC_021166.1	Ca_Kabuli_Chr07	11433253	AA	GG	GG	INTERGENIC		
SNP_49796_A_11433394	NC_021166.1	Ca_Kabuli_Chr07	11433394	GG	CC	CC	INTERGENIC		
SNP_49797_A_11433428	NC_021166.1	Ca_Kabuli_Chr07	11433428	AA	TT	TT	INTERGENIC		
SNP_49798_A_11433444	NC_021166.1	Ca_Kabuli_Chr07	11433444	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49799_A_11433454	NC_021166.1	Ca_Kabuli_Chr07	11433454	TT	AA	AA	INTERGENIC		
SNP_49800_A_11433513	NC_021166.1	Ca_Kabuli_Chr07	11433513	TT	CC	CC	INTERGENIC		
SNP_49801_A_11433681	NC_021166.1	Ca_Kabuli_Chr07	11433681	AA	GG	GG	INTERGENIC		
SNP_49802_A_11433684	NC_021166.1	Ca_Kabuli_Chr07	11433684	GG	TT	TT	INTERGENIC		
SNP_49803_A_11433711	NC_021166.1	Ca_Kabuli_Chr07	11433711	TT	AA	AA	INTERGENIC		
SNP_49804_A_11433775	NC_021166.1	Ca_Kabuli_Chr07	11433775	GG	AA	AA	INTERGENIC		
SNP_49805_A_11434290	NC_021166.1	Ca_Kabuli_Chr07	11434290	TT	CC	CC	INTERGENIC		
SNP_49806_A_11434291	NC_021166.1	Ca_Kabuli_Chr07	11434291	CC	TT	TT	INTERGENIC		
SNP_49807_A_11434292	NC_021166.1	Ca_Kabuli_Chr07	11434292	TT	CC	CC	INTERGENIC		
SNP_49808_A_11437672	NC_021166.1	Ca_Kabuli_Chr07	11437672	GG	CC	CC	INTERGENIC		
SNP_49810_A_11438427	NC_021166.1	Ca_Kabuli_Chr07	11438427	TT	GG	GG	INTERGENIC		
SNP_49811_A_11438527	NC_021166.1	Ca_Kabuli_Chr07	11438527	TT	AA	AA	INTERGENIC		
SNP_49812_A_11439372	NC_021166.1	Ca_Kabuli_Chr07	11439372	TT	CC	CC	INTERGENIC		
SNP_49813_A_11439431	NC_021166.1	Ca_Kabuli_Chr07	11439431	TT	CC	CC	INTERGENIC		
SNP_49814_A_11439452	NC_021166.1	Ca_Kabuli_Chr07	11439452	TT	AA	AA	INTERGENIC		
SNP_49815_A_11439705	NC_021166.1	Ca_Kabuli_Chr07	11439705	CC	AA	AA	INTERGENIC		
SNP_49816_A_11440164	NC_021166.1	Ca_Kabuli_Chr07	11440164	AA	GG	GG	INTERGENIC		
SNP_49818_A_11443115	NC_021166.1	Ca_Kabuli_Chr07	11443115	GG	TT	TT	INTRON	101506354	uncharacterized LOC101506354
SNP_49819_A_11443234	NC_021166.1	Ca_Kabuli_Chr07	11443234	CC	GG	GG	NON_SYNONYMOUS_CODING	101506354	uncharacterized LOC101506354
SNP_49820_A_11446255	NC_021166.1	Ca_Kabuli_Chr07	11446255	AA	GG	GG	URR	101506354	uncharacterized LOC101506354
SNP_49821_A_11453953	NC_021166.1	Ca_Kabuli_Chr07	11453953	CC	AA	AA	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49822_A_11453954	NC_021166.1	Ca_Kabuli_Chr07	11453954	AA	GG	GG	URR	101506675	adenylyl-sulfate kinase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49823_A_11453962	NC_021166.1	Ca_Kabuli_Chr07	11453962	AA	TT	TT	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49824_A_11453973	NC_021166.1	Ca_Kabuli_Chr07	11453973	TT	CC	CC	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49825_A_11454086	NC_021166.1	Ca_Kabuli_Chr07	11454086	TT	GG	GG	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49826_A_11454090	NC_021166.1	Ca_Kabuli_Chr07	11454090	TT	CC	CC	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49827_A_11454454	NC_021166.1	Ca_Kabuli_Chr07	11454454	AA	GG	GG	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49828_A_11454807	NC_021166.1	Ca_Kabuli_Chr07	11454807	CC	AA	AA	URR	101506675	adenylyl-sulfate kinase, chloroplastic
SNP_49829_A_11457549	NC_021166.1	Ca_Kabuli_Chr07	11457549	TT	CC	CC	INTERGENIC		
SNP_49830_A_11458735	NC_021166.1	Ca_Kabuli_Chr07	11458735	AA	GG	GG	INTERGENIC		
SNP_49831_A_11459138	NC_021166.1	Ca_Kabuli_Chr07	11459138	AA	TT	TT	INTERGENIC		
SNP_49832_A_11459180	NC_021166.1	Ca_Kabuli_Chr07	11459180	GG	CC	CC	INTERGENIC		
SNP_49833_A_11459183	NC_021166.1	Ca_Kabuli_Chr07	11459183	AA	TT	TT	INTERGENIC		
SNP_49834_A_11467319	NC_021166.1	Ca_Kabuli_Chr07	11467319	GG	AA	AA	DRR	101507009	cyclin-D1-1-like
SNP_49835_A_11467790	NC_021166.1	Ca_Kabuli_Chr07	11467790	TT	CC	CC	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49836_A_11469400	NC_021166.1	Ca_Kabuli_Chr07	11469400	AA	GG	GG	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49837_A_11469415	NC_021166.1	Ca_Kabuli_Chr07	11469415	GG	AA	AA	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49838_A_11469433	NC_021166.1	Ca_Kabuli_Chr07	11469433	TT	CC	CC	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49839_A_11469454	NC_021166.1	Ca_Kabuli_Chr07	11469454	TT	CC	CC	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49840_A_11469455	NC_021166.1	Ca_Kabuli_Chr07	11469455	GG	CC	CC	URR	101507334	calcium-transporting ATPase 2, plasma membrane-type-like
SNP_49841_A_11473993	NC_021166.1	Ca_Kabuli_Chr07	11473993	AA	GG	GG	INTRON	101507641	formin-like protein 6
SNP_49842_A_11477629	NC_021166.1	Ca_Kabuli_Chr07	11477629	TT	CC	CC	URR	101507641	formin-like protein 6
SNP_49843_A_11477641	NC_021166.1	Ca_Kabuli_Chr07	11477641	GG	AA	AA	URR	101507641	formin-like protein 6
SNP_49844_A_11478415	NC_021166.1	Ca_Kabuli_Chr07	11478415	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49845_A_11479429	NC_021166.1	Ca_Kabuli_Chr07	11479429	AA	TT	TT	INTERGENIC		
SNP_49846_A_11479557	NC_021166.1	Ca_Kabuli_Chr07	11479557	GG	AA	AA	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_49847_A_11481227	NC_021166.1	Ca_Kabuli_Chr07	11481227	GG	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_49848_A_11481236	NC_021166.1	Ca_Kabuli_Chr07	11481236	CC	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_49849_A_11481251	NC_021166.1	Ca_Kabuli_Chr07	11481251	CC	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_49850_A_11481978	NC_021166.1	Ca_Kabuli_Chr07	11481978	AA	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_49852_A_11485678	NC_021166.1	Ca_Kabuli_Chr07	11485678	CC	TT	TT	INTERGENIC		
SNP_49854_A_11487990	NC_021166.1	Ca_Kabuli_Chr07	11487990	TT	CC	CC	INTERGENIC		
SNP_49855_A_11488598	NC_021166.1	Ca_Kabuli_Chr07	11488598	CC	TT	TT	INTERGENIC		
SNP_49856_A_11488614	NC_021166.1	Ca_Kabuli_Chr07	11488614	AA	GG	GG	INTERGENIC		
SNP_49857_A_11489874	NC_021166.1	Ca_Kabuli_Chr07	11489874	CC	GG	GG	INTERGENIC		
SNP_49858_A_11490220	NC_021166.1	Ca_Kabuli_Chr07	11490220	AA	CC	CC	INTERGENIC		
SNP_49859_A_11490259	NC_021166.1	Ca_Kabuli_Chr07	11490259	GG	AA	AA	INTERGENIC		
SNP_49860_A_11490318	NC_021166.1	Ca_Kabuli_Chr07	11490318	CC	TT	TT	INTERGENIC		
SNP_49861_A_11492326	NC_021166.1	Ca_Kabuli_Chr07	11492326	AA	GG	GG	INTERGENIC		
SNP_49862_A_11492700	NC_021166.1	Ca_Kabuli_Chr07	11492700	CC	TT	TT	INTERGENIC		
SNP_49863_A_11494090	NC_021166.1	Ca_Kabuli_Chr07	11494090	GG	AA	AA	INTERGENIC		
SNP_49865_A_11494918	NC_021166.1	Ca_Kabuli_Chr07	11494918	TT	AA	AA	DRR	101507964	probable N-acetyltransferase HLS1
SNP_49867_A_11512163	NC_021166.1	Ca_Kabuli_Chr07	11512163	TT	AA	AA	INTERGENIC		
SNP_49868_A_11512956	NC_021166.1	Ca_Kabuli_Chr07	11512956	AA	TT	TT	INTERGENIC		
SNP_49869_A_11512958	NC_021166.1	Ca_Kabuli_Chr07	11512958	AA	TT	TT	INTERGENIC		
SNP_49870_A_11516928	NC_021166.1	Ca_Kabuli_Chr07	11516928	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49871_A_11516931	NC_021166.1	Ca_Kabuli_Chr07	11516931	AA	TT	TT	INTERGENIC		
SNP_49874_A_11518630	NC_021166.1	Ca_Kabuli_Chr07	11518630	AA	CC	CC	INTERGENIC		
SNP_49875_A_11523432	NC_021166.1	Ca_Kabuli_Chr07	11523432	AA	GG	GG	INTRON	101508276	casein kinase II subunit alpha, chloroplastic
SNP_49876_A_11528690	NC_021166.1	Ca_Kabuli_Chr07	11528690	TT	CC	CC	URR	101508276	casein kinase II subunit alpha, chloroplastic
SNP_49877_A_11530383	NC_021166.1	Ca_Kabuli_Chr07	11530383	AA	GG	GG	DRR	101508598	putative formamidase C869.04
SNP_49878_A_11531042	NC_021166.1	Ca_Kabuli_Chr07	11531042	CC	AA	AA	INTERGENIC		
SNP_49879_A_11531055	NC_021166.1	Ca_Kabuli_Chr07	11531055	CC	TT	TT	INTERGENIC		
SNP_49880_A_11531545	NC_021166.1	Ca_Kabuli_Chr07	11531545	CC	TT	TT	SYNONYMOUS_CODING	101508598	putative formamidase C869.04
SNP_49881_A_11531612	NC_021166.1	Ca_Kabuli_Chr07	11531612	AA	TT	TT	INTRON	101508598	putative formamidase C869.04
SNP_49882_A_11537733	NC_021166.1	Ca_Kabuli_Chr07	11537733	AA	GG	GG	INTRON	101508598	putative formamidase C869.04
SNP_49883_A_11537740	NC_021166.1	Ca_Kabuli_Chr07	11537740	TT	CC	CC	INTRON	101508598	putative formamidase C869.04
SNP_49884_A_11537764	NC_021166.1	Ca_Kabuli_Chr07	11537764	TT	CC	CC	INTRON	101508598	putative formamidase C869.04
SNP_49885_A_11537828	NC_021166.1	Ca_Kabuli_Chr07	11537828	TT	AA	AA	INTRON	101508598	putative formamidase C869.04
SNP_49886_A_11538196	NC_021166.1	Ca_Kabuli_Chr07	11538196	GG	AA	AA	SYNONYMOUS_CODING	101508598	putative formamidase C869.04
SNP_49887_A_11540417	NC_021166.1	Ca_Kabuli_Chr07	11540417	AA	TT	TT	URR	101508598	putative formamidase C869.04
SNP_49888_A_11540707	NC_021166.1	Ca_Kabuli_Chr07	11540707	CC	TT	TT	INTERGENIC		
SNP_49889_A_11540999	NC_021166.1	Ca_Kabuli_Chr07	11540999	GG	AA	AA	INTERGENIC		
SNP_49890_A_11541028	NC_021166.1	Ca_Kabuli_Chr07	11541028	GG	AA	AA	INTERGENIC		
SNP_49891_A_11542008	NC_021166.1	Ca_Kabuli_Chr07	11542008	TT	CC	CC	INTERGENIC		
SNP_49892_A_11542010	NC_021166.1	Ca_Kabuli_Chr07	11542010	TT	CC	CC	INTERGENIC		
SNP_49894_A_11542695	NC_021166.1	Ca_Kabuli_Chr07	11542695	AA	GG	GG	INTERGENIC		
SNP_49895_A_11542716	NC_021166.1	Ca_Kabuli_Chr07	11542716	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_49897_A_11543264	NC_021166.1	Ca_Kabuli_Chr07	11543264	GG	AA	AA	INTERGENIC			
SNP_49899_A_11549540	NC_021166.1	Ca_Kabuli_Chr07	11549540	CC	TT	TT	INTERGENIC			
SNP_49900_A_11555426	NC_021166.1	Ca_Kabuli_Chr07	11555426	TT	CC	CC	INTERGENIC			
SNP_49901_A_11555436	NC_021166.1	Ca_Kabuli_Chr07	11555436	TT	CC	CC	INTERGENIC			
SNP_49902_A_11566414	NC_021166.1	Ca_Kabuli_Chr07	11566414	CC	TT	TT	INTERGENIC			
SNP_49903_A_11566420	NC_021166.1	Ca_Kabuli_Chr07	11566420	AA	GG	GG	INTERGENIC			
SNP_49904_A_11566425	NC_021166.1	Ca_Kabuli_Chr07	11566425	CC	TT	TT	INTERGENIC			
SNP_49905_A_11566475	NC_021166.1	Ca_Kabuli_Chr07	11566475	CC	TT	TT	INTERGENIC			
SNP_49906_A_11566479	NC_021166.1	Ca_Kabuli_Chr07	11566479	CC	TT	TT	INTERGENIC			
SNP_49907_A_11570752	NC_021166.1	Ca_Kabuli_Chr07	11570752	GG	AA	AA	INTERGENIC			
SNP_49908_A_11571165	NC_021166.1	Ca_Kabuli_Chr07	11571165	AA	TT	TT	INTERGENIC			
SNP_49909_A_11571527	NC_021166.1	Ca_Kabuli_Chr07	11571527	GG	AA	AA	INTERGENIC			
SNP_49910_A_11572085	NC_021166.1	Ca_Kabuli_Chr07	11572085	CC	TT	TT	INTERGENIC			
SNP_49911_A_11572118	NC_021166.1	Ca_Kabuli_Chr07	11572118	TT	CC	CC	INTERGENIC			
SNP_49912_A_11576678	NC_021166.1	Ca_Kabuli_Chr07	11576678	GG	CC	CC	URR	101509453	scarecrow-like protein 32	
SNP_49913_A_11576702	NC_021166.1	Ca_Kabuli_Chr07	11576702	CC	TT	TT	URR	101509453	scarecrow-like protein 32	
SNP_49914_A_11576732	NC_021166.1	Ca_Kabuli_Chr07	11576732	CC	AA	AA	URR	101509453	scarecrow-like protein 32	
SNP_49915_A_11576766	NC_021166.1	Ca_Kabuli_Chr07	11576766	AA	TT	TT	URR	101509453	scarecrow-like protein 32	
SNP_49916_A_11577253	NC_021166.1	Ca_Kabuli_Chr07	11577253	AA	GG	GG	URR	101509453	scarecrow-like protein 32	
SNP_49917_A_11580791	NC_021166.1	Ca_Kabuli_Chr07	11580791	AA	TT	TT	INTERGENIC			
SNP_49918_A_11580793	NC_021166.1	Ca_Kabuli_Chr07	11580793	GG	AA	AA	INTERGENIC			
SNP_49919_A_11580805	NC_021166.1	Ca_Kabuli_Chr07	11580805	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49921_A_11585494	NC_021166.1	Ca_Kabuli_Chr07	11585494	CC	TT	TT	DRR	101509779	uncharacterized LOC101509779
SNP_49923_A_11592902	NC_021166.1	Ca_Kabuli_Chr07	11592902	AA	GG	GG	URR	101510308	peroxidase 73-like
SNP_49924_A_11592952	NC_021166.1	Ca_Kabuli_Chr07	11592952	TT	GG	GG	URR	101510308	peroxidase 73-like
SNP_49925_A_11592975	NC_021166.1	Ca_Kabuli_Chr07	11592975	AA	CC	CC	URR	101510308	peroxidase 73-like
SNP_49926_A_11593171	NC_021166.1	Ca_Kabuli_Chr07	11593171	AA	TT	TT	URR	101510308	peroxidase 73-like
SNP_49927_A_11593324	NC_021166.1	Ca_Kabuli_Chr07	11593324	TT	CC	CC	URR	101510308	peroxidase 73-like
SNP_49928_A_11593550	NC_021166.1	Ca_Kabuli_Chr07	11593550	GG	CC	CC	URR	101510308	peroxidase 73-like
SNP_49929_A_11594178	NC_021166.1	Ca_Kabuli_Chr07	11594178	GG	TT	TT	INTERGENIC		
SNP_49930_A_11596132	NC_021166.1	Ca_Kabuli_Chr07	11596132	TT	CC	CC	INTERGENIC		
SNP_49931_A_11600727	NC_021166.1	Ca_Kabuli_Chr07	11600727	GG	TT	TT	INTERGENIC		
SNP_49933_A_11601229	NC_021166.1	Ca_Kabuli_Chr07	11601229	TT	CC	CC	INTERGENIC		
SNP_49934_A_11601251	NC_021166.1	Ca_Kabuli_Chr07	11601251	TT	AA	AA	INTERGENIC		
SNP_49935_A_11602189	NC_021166.1	Ca_Kabuli_Chr07	11602189	AA	GG	GG	INTERGENIC		
SNP_49936_A_11602224	NC_021166.1	Ca_Kabuli_Chr07	11602224	AA	GG	GG	INTERGENIC		
SNP_49937_A_11608364	NC_021166.1	Ca_Kabuli_Chr07	11608364	GG	AA	AA	INTERGENIC		
SNP_49938_A_11608369	NC_021166.1	Ca_Kabuli_Chr07	11608369	CC	TT	TT	INTERGENIC		
SNP_49939_A_11608870	NC_021166.1	Ca_Kabuli_Chr07	11608870	TT	AA	AA	INTERGENIC		
SNP_49940_A_11613250	NC_021166.1	Ca_Kabuli_Chr07	11613250	TT	AA	AA	URR	101510644	uncharacterized LOC101510644
SNP_49941_A_11613700	NC_021166.1	Ca_Kabuli_Chr07	11613700	CC	TT	TT	INTRON	101510644	uncharacterized LOC101510644
SNP_49942_A_11615652	NC_021166.1	Ca_Kabuli_Chr07	11615652	TT	CC	CC	URR	101510644	uncharacterized LOC101510644
SNP_49943_A_11616579	NC_021166.1	Ca_Kabuli_Chr07	11616579	CC	AA	AA	URR	101510644	uncharacterized LOC101510644
SNP_49944_A_11616760	NC_021166.1	Ca_Kabuli_Chr07	11616760	GG	CC	CC	URR	101510644	uncharacterized LOC101510644

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49945_A_11616908	NC_021166.1	Ca_Kabuli_Chr07	11616908	CC	TT	TT	URR	101510644	uncharacterized LOC101510644
SNP_49946_A_11617449	NC_021166.1	Ca_Kabuli_Chr07	11617449	GG	AA	AA	URR	101510644	uncharacterized LOC101510644
SNP_49947_A_11617512	NC_021166.1	Ca_Kabuli_Chr07	11617512	CC	AA	AA	INTERGENIC		
SNP_49948_A_11617516	NC_021166.1	Ca_Kabuli_Chr07	11617516	CC	AA	AA	INTERGENIC		
SNP_49949_A_11617518	NC_021166.1	Ca_Kabuli_Chr07	11617518	TT	CC	CC	INTERGENIC		
SNP_49950_A_11617601	NC_021166.1	Ca_Kabuli_Chr07	11617601	AA	GG	GG	INTERGENIC		
SNP_49951_A_11617729	NC_021166.1	Ca_Kabuli_Chr07	11617729	GG	AA	AA	INTERGENIC		
SNP_49952_A_11618040	NC_021166.1	Ca_Kabuli_Chr07	11618040	AA	TT	TT	INTERGENIC		
SNP_49953_A_11618044	NC_021166.1	Ca_Kabuli_Chr07	11618044	CC	TT	TT	INTERGENIC		
SNP_49954_A_11618052	NC_021166.1	Ca_Kabuli_Chr07	11618052	GG	AA	AA	INTERGENIC		
SNP_49955_A_11618233	NC_021166.1	Ca_Kabuli_Chr07	11618233	AA	TT	TT	INTERGENIC		
SNP_49956_A_11623679	NC_021166.1	Ca_Kabuli_Chr07	11623679	TT	AA	AA	INTERGENIC		
SNP_49957_A_11623984	NC_021166.1	Ca_Kabuli_Chr07	11623984	TT	AA	AA	INTERGENIC		
SNP_49958_A_11624202	NC_021166.1	Ca_Kabuli_Chr07	11624202	AA	GG	GG	INTERGENIC		
SNP_49959_A_11624257	NC_021166.1	Ca_Kabuli_Chr07	11624257	GG	AA	AA	INTERGENIC		
SNP_49960_A_11624370	NC_021166.1	Ca_Kabuli_Chr07	11624370	TT	CC	CC	INTERGENIC		
SNP_49961_A_11624401	NC_021166.1	Ca_Kabuli_Chr07	11624401	AA	GG	GG	INTERGENIC		
SNP_49962_A_11624421	NC_021166.1	Ca_Kabuli_Chr07	11624421	AA	GG	GG	INTERGENIC		
SNP_49964_A_11624623	NC_021166.1	Ca_Kabuli_Chr07	11624623	AA	GG	GG	INTERGENIC		
SNP_49965_A_11625577	NC_021166.1	Ca_Kabuli_Chr07	11625577	AA	GG	GG	INTERGENIC		
SNP_49966_A_11626109	NC_021166.1	Ca_Kabuli_Chr07	11626109	GG	AA	AA	INTERGENIC		
SNP_49967_A_11627021	NC_021166.1	Ca_Kabuli_Chr07	11627021	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49968_A_11645199	NC_021166.1	Ca_Kabuli_Chr07	11645199	TT	GG	GG	INTRON	101511488	uncharacterized LOC101511488
SNP_49969_A_11645200	NC_021166.1	Ca_Kabuli_Chr07	11645200	AA	TT	TT	INTRON	101511488	uncharacterized LOC101511488
SNP_49970_A_11647559	NC_021166.1	Ca_Kabuli_Chr07	11647559	TT	CC	CC	DRR	101511815	casein kinase II subunit alpha
SNP_49971_A_11651889	NC_021166.1	Ca_Kabuli_Chr07	11651889	CC	AA	AA	INTRON	101511815	casein kinase II subunit alpha
SNP_49972_A_11656445	NC_021166.1	Ca_Kabuli_Chr07	11656445	GG	AA	AA	URR	101511815	casein kinase II subunit alpha
SNP_49973_A_11657882	NC_021166.1	Ca_Kabuli_Chr07	11657882	TT	CC	CC	INTERGENIC		
SNP_49974_A_11657884	NC_021166.1	Ca_Kabuli_Chr07	11657884	GG	AA	AA	INTERGENIC		
SNP_49975_A_11658890	NC_021166.1	Ca_Kabuli_Chr07	11658890	CC	AA	AA	INTERGENIC		
SNP_49976_A_11660767	NC_021166.1	Ca_Kabuli_Chr07	11660767	AA	CC	CC	INTERGENIC		
SNP_49977_A_11662041	NC_021166.1	Ca_Kabuli_Chr07	11662041	TT	AA	AA	INTERGENIC		
SNP_49978_A_11670422	NC_021166.1	Ca_Kabuli_Chr07	11670422	TT	CC	CC	INTERGENIC		
SNP_49979_A_11675295	NC_021166.1	Ca_Kabuli_Chr07	11675295	GG	CC	CC	INTRON	101512678	probable prolyl 4-hydroxylase 9
SNP_49980_A_11676982	NC_021166.1	Ca_Kabuli_Chr07	11676982	AA	TT	TT	INTRON	101512678	probable prolyl 4-hydroxylase 9
SNP_49981_A_11678377	NC_021166.1	Ca_Kabuli_Chr07	11678377	TT	CC	CC	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49982_A_11678688	NC_021166.1	Ca_Kabuli_Chr07	11678688	CC	TT	TT	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49983_A_11678956	NC_021166.1	Ca_Kabuli_Chr07	11678956	CC	TT	TT	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49985_A_11679097	NC_021166.1	Ca_Kabuli_Chr07	11679097	TT	CC	CC	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49986_A_11679316	NC_021166.1	Ca_Kabuli_Chr07	11679316	GG	AA	AA	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49987_A_11679353	NC_021166.1	Ca_Kabuli_Chr07	11679353	AA	TT	TT	URR	101512678	probable prolyl 4-hydroxylase 9
SNP_49988_A_11680954	NC_021166.1	Ca_Kabuli_Chr07	11680954	GG	AA	AA	INTERGENIC		
SNP_49989_A_11680989	NC_021166.1	Ca_Kabuli_Chr07	11680989	TT	CC	CC	INTERGENIC		
SNP_49990_A_11681009	NC_021166.1	Ca_Kabuli_Chr07	11681009	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_49991_A_11681178	NC_021166.1	Ca_Kabuli_Chr07	11681178	AA	GG	GG	INTERGENIC		
SNP_49992_A_11681956	NC_021166.1	Ca_Kabuli_Chr07	11681956	GG	TT	TT	INTERGENIC		
SNP_49993_A_11682686	NC_021166.1	Ca_Kabuli_Chr07	11682686	AA	GG	GG	INTERGENIC		
SNP_49994_A_11682865	NC_021166.1	Ca_Kabuli_Chr07	11682865	AA	TT	TT	INTERGENIC		
SNP_49995_A_11683161	NC_021166.1	Ca_Kabuli_Chr07	11683161	AA	CC	CC	DRR	101512994	subtilisin-like protease SBT1.7
SNP_49996_A_11683195	NC_021166.1	Ca_Kabuli_Chr07	11683195	TT	AA	AA	DRR	101512994	subtilisin-like protease SBT1.7
SNP_49997_A_11683957	NC_021166.1	Ca_Kabuli_Chr07	11683957	AA	TT	TT	DRR	101512994	subtilisin-like protease SBT1.7
SNP_49999_A_11691939	NC_021166.1	Ca_Kabuli_Chr07	11691939	AA	TT	TT	INTERGENIC		
SNP_50001_A_11693740	NC_021166.1	Ca_Kabuli_Chr07	11693740	GG	AA	AA	URR	101513321	uncharacterized LOC101513321
SNP_50002_A_11697451	NC_021166.1	Ca_Kabuli_Chr07	11697451	GG	TT	TT	INTERGENIC		
SNP_50003_A_11697602	NC_021166.1	Ca_Kabuli_Chr07	11697602	AA	CC	CC	INTERGENIC		
SNP_50004_A_11706657	NC_021166.1	Ca_Kabuli_Chr07	11706657	GG	AA	AA	URR	101513645	uncharacterized protein DDB_G0271670
SNP_50005_A_11707029	NC_021166.1	Ca_Kabuli_Chr07	11707029	CC	TT	TT	INTERGENIC		
SNP_50006_A_11707086	NC_021166.1	Ca_Kabuli_Chr07	11707086	AA	GG	GG	INTERGENIC		
SNP_50007_A_11708387	NC_021166.1	Ca_Kabuli_Chr07	11708387	GG	AA	AA	DRR	101513972	probable esterase D14L
SNP_50008_A_11710906	NC_021166.1	Ca_Kabuli_Chr07	11710906	CC	TT	TT	URR	101513972	probable esterase D14L
SNP_50009_A_11712396	NC_021166.1	Ca_Kabuli_Chr07	11712396	AA	GG	GG	INTERGENIC		
SNP_50010_A_11712405	NC_021166.1	Ca_Kabuli_Chr07	11712405	GG	AA	AA	INTERGENIC		
SNP_50011_A_11712409	NC_021166.1	Ca_Kabuli_Chr07	11712409	CC	TT	TT	INTERGENIC		
SNP_50012_A_11712420	NC_021166.1	Ca_Kabuli_Chr07	11712420	TT	CC	CC	INTERGENIC		
SNP_50013_A_11712431	NC_021166.1	Ca_Kabuli_Chr07	11712431	TT	AA	AA	INTERGENIC		
SNP_50014_A_11712478	NC_021166.1	Ca_Kabuli_Chr07	11712478	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50015_A_11713758	NC_021166.1	Ca_Kabuli_Chr07	11713758	AA	TT	TT	DRR	101495824	Unknown function
SNP_50016_A_11714363	NC_021166.1	Ca_Kabuli_Chr07	11714363	GG	TT	TT	INTERGENIC		
SNP_50018_A_11714530	NC_021166.1	Ca_Kabuli_Chr07	11714530	TT	CC	CC	INTERGENIC		
SNP_50019_A_11717556	NC_021166.1	Ca_Kabuli_Chr07	11717556	AA	GG	GG	INTRON	101495824	Unknown function
SNP_50020_A_11717560	NC_021166.1	Ca_Kabuli_Chr07	11717560	GG	AA	AA	INTRON	101495824	Unknown function
SNP_50021_A_11717561	NC_021166.1	Ca_Kabuli_Chr07	11717561	GG	AA	AA	INTRON	101495824	Unknown function
SNP_50022_A_11717621	NC_021166.1	Ca_Kabuli_Chr07	11717621	TT	GG	GG	INTRON	101495824	Unknown function
SNP_50023_A_11717637	NC_021166.1	Ca_Kabuli_Chr07	11717637	GG	AA	AA	INTRON	101495824	Unknown function
SNP_50024_A_11718147	NC_021166.1	Ca_Kabuli_Chr07	11718147	CC	AA	AA	INTRON	101495824	Unknown function
SNP_50025_A_11718331	NC_021166.1	Ca_Kabuli_Chr07	11718331	CC	TT	TT	NON_SYNONYMOUS_CODING	101495824	Unknown function
SNP_50026_A_11719248	NC_021166.1	Ca_Kabuli_Chr07	11719248	GG	AA	AA	INTRON	101495824	Unknown function
SNP_50027_A_11719493	NC_021166.1	Ca_Kabuli_Chr07	11719493	CC	TT	TT	INTRON	101495824	Unknown function
SNP_50028_A_11719503	NC_021166.1	Ca_Kabuli_Chr07	11719503	TT	AA	AA	INTRON	101495824	Unknown function
SNP_50029_A_11719828	NC_021166.1	Ca_Kabuli_Chr07	11719828	CC	TT	TT	INTRON	101495824	Unknown function
SNP_50030_A_11723373	NC_021166.1	Ca_Kabuli_Chr07	11723373	AA	TT	TT	INTERGENIC		
SNP_50031_A_11725655	NC_021166.1	Ca_Kabuli_Chr07	11725655	GG	AA	AA	URR	101514307	lysine-rich arabinogalactan protein 18-like
SNP_50032_A_11725760	NC_021166.1	Ca_Kabuli_Chr07	11725760	GG	AA	AA	URR	101514307	lysine-rich arabinogalactan protein 18-like
SNP_50033_A_11726758	NC_021166.1	Ca_Kabuli_Chr07	11726758	TT	CC	CC	INTERGENIC		
SNP_50034_A_11727049	NC_021166.1	Ca_Kabuli_Chr07	11727049	GG	TT	TT	INTERGENIC		
SNP_50035_A_11729672	NC_021166.1	Ca_Kabuli_Chr07	11729672	AA	TT	TT	INTERGENIC		
SNP_50038_A_11732899	NC_021166.1	Ca_Kabuli_Chr07	11732899	CC	GG	GG	DRR	101514960	FRIGIDA-like protein 3
SNP_50039_A_11732929	NC_021166.1	Ca_Kabuli_Chr07	11732929	CC	AA	AA	DRR	101514960	FRIGIDA-like protein 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50040_A_11735857	NC_021166.1	Ca_Kabuli_Chr07	11735857	TT	CC	CC	INTERGENIC		
SNP_50041_A_11737691	NC_021166.1	Ca_Kabuli_Chr07	11737691	GG	AA	AA	URR	101514960	FRIGIDA-like protein 3
SNP_50042_A_11738534	NC_021166.1	Ca_Kabuli_Chr07	11738534	GG	CC	CC	INTERGENIC		
SNP_50043_A_11738784	NC_021166.1	Ca_Kabuli_Chr07	11738784	TT	CC	CC	DRR	101515280	metal transporter Nramp3-like
SNP_50044_A_11738919	NC_021166.1	Ca_Kabuli_Chr07	11738919	AA	TT	TT	DRR	101515280	metal transporter Nramp3-like
SNP_50045_A_11738943	NC_021166.1	Ca_Kabuli_Chr07	11738943	CC	GG	GG	DRR	101515280	metal transporter Nramp3-like
SNP_50046_A_11743602	NC_021166.1	Ca_Kabuli_Chr07	11743602	GG	AA	AA	URR	101515280	metal transporter Nramp3-like
SNP_50047_A_11743614	NC_021166.1	Ca_Kabuli_Chr07	11743614	GG	AA	AA	URR	101515280	metal transporter Nramp3-like
SNP_50048_A_11745150	NC_021166.1	Ca_Kabuli_Chr07	11745150	TT	AA	AA	URR	101515280	metal transporter Nramp3-like
SNP_50049_A_11745169	NC_021166.1	Ca_Kabuli_Chr07	11745169	AA	GG	GG	URR	101515280	metal transporter Nramp3-like
SNP_50050_A_11745196	NC_021166.1	Ca_Kabuli_Chr07	11745196	AA	GG	GG	URR	101515280	metal transporter Nramp3-like
SNP_50051_A_11745337	NC_021166.1	Ca_Kabuli_Chr07	11745337	AA	GG	GG	INTERGENIC		
SNP_50052_A_11745579	NC_021166.1	Ca_Kabuli_Chr07	11745579	AA	GG	GG	INTERGENIC		
SNP_50053_A_11751063	NC_021166.1	Ca_Kabuli_Chr07	11751063	AA	GG	GG	DRR	101515605	zinc finger protein 7-like
SNP_50054_A_11751176	NC_021166.1	Ca_Kabuli_Chr07	11751176	TT	CC	CC	DRR	101515605	zinc finger protein 7-like
SNP_50055_A_11751622	NC_021166.1	Ca_Kabuli_Chr07	11751622	TT	CC	CC	INTRON	101515605	zinc finger protein 7-like
SNP_50057_A_11751819	NC_021166.1	Ca_Kabuli_Chr07	11751819	TT	CC	CC	INTRON	101515605	zinc finger protein 7-like
SNP_50058_A_11752054	NC_021166.1	Ca_Kabuli_Chr07	11752054	GG	AA	AA	INTRON	101515605	zinc finger protein 7-like
SNP_50059_A_11752055	NC_021166.1	Ca_Kabuli_Chr07	11752055	TT	CC	CC	INTRON	101515605	zinc finger protein 7-like
SNP_50060_A_11753073	NC_021166.1	Ca_Kabuli_Chr07	11753073	CC	TT	TT	NON_SYNONYMOUS_CODING	101515605	zinc finger protein 7-like
SNP_50064_A_11758303	NC_021166.1	Ca_Kabuli_Chr07	11758303	TT	CC	CC	INTERGENIC		
SNP_50065_A_11759267	NC_021166.1	Ca_Kabuli_Chr07	11759267	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50066_A_11759277	NC_021166.1	Ca_Kabuli_Chr07	11759277	AA	GG	GG	INTERGENIC		
SNP_50067_A_11759323	NC_021166.1	Ca_Kabuli_Chr07	11759323	AA	CC	CC	INTERGENIC		
SNP_50068_A_11759923	NC_021166.1	Ca_Kabuli_Chr07	11759923	CC	TT	TT	INTERGENIC		
SNP_50069_A_11760244	NC_021166.1	Ca_Kabuli_Chr07	11760244	GG	AA	AA	INTERGENIC		
SNP_50070_A_11760490	NC_021166.1	Ca_Kabuli_Chr07	11760490	GG	AA	AA	INTERGENIC		
SNP_50071_A_11768414	NC_021166.1	Ca_Kabuli_Chr07	11768414	TT	CC	CC	INTERGENIC		
SNP_50072_A_11770323	NC_021166.1	Ca_Kabuli_Chr07	11770323	CC	TT	TT	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50073_A_11770336	NC_021166.1	Ca_Kabuli_Chr07	11770336	TT	CC	CC	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50074_A_11770845	NC_021166.1	Ca_Kabuli_Chr07	11770845	AA	GG	GG	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50075_A_11771781	NC_021166.1	Ca_Kabuli_Chr07	11771781	CC	AA	AA	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50076_A_11772043	NC_021166.1	Ca_Kabuli_Chr07	11772043	CC	TT	TT	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50077_A_11772666	NC_021166.1	Ca_Kabuli_Chr07	11772666	AA	GG	GG	INTRON	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50078_A_11775872	NC_021166.1	Ca_Kabuli_Chr07	11775872	CC	TT	TT	URR	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50079_A_11775927	NC_021166.1	Ca_Kabuli_Chr07	11775927	TT	AA	AA	URR	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50080_A_11775935	NC_021166.1	Ca_Kabuli_Chr07	11775935	CC	TT	TT	URR	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50081_A_11776038	NC_021166.1	Ca_Kabuli_Chr07	11776038	AA	GG	GG	URR	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50082_A_11776227	NC_021166.1	Ca_Kabuli_Chr07	11776227	GG	AA	AA	URR	101488682	F-box-like/WD repeat-containing protein TBL1XR1
SNP_50083_A_11785872	NC_021166.1	Ca_Kabuli_Chr07	11785872	CC	TT	TT	URR	101489348	solanesyl diphosphate synthase 3, chloroplastic/mitochondrial like
SNP_50084_A_11785881	NC_021166.1	Ca_Kabuli_Chr07	11785881	CC	AA	AA	URR	101489348	solanesyl diphosphate synthase 3, chloroplastic/mitochondrial like
SNP_50085_A_11787359	NC_021166.1	Ca_Kabuli_Chr07	11787359	CC	TT	TT	INTERGENIC		
SNP_50086_A_11788611	NC_021166.1	Ca_Kabuli_Chr07	11788611	TT	AA	AA	INTERGENIC		
SNP_50087_A_11789006	NC_021166.1	Ca_Kabuli_Chr07	11789006	AA	GG	GG	URR	101489020	cytochrome P450 81E8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50088_A_11789009	NC_021166.1	Ca_Kabuli_Chr07	11789009	TT		CC	CC	URR	101489020	cytochrome P450 81E8-like
SNP_50089_A_11789090	NC_021166.1	Ca_Kabuli_Chr07	11789090	GG		AA	AA	URR	101489020	cytochrome P450 81E8-like
SNP_50090_A_11798980	NC_021166.1	Ca_Kabuli_Chr07	11798980	CC		TT	TT	INTERGENIC		
SNP_50091_A_11799286	NC_021166.1	Ca_Kabuli_Chr07	11799286	AA		TT	TT	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50092_A_11799288	NC_021166.1	Ca_Kabuli_Chr07	11799288	TT		GG	GG	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50093_A_11799290	NC_021166.1	Ca_Kabuli_Chr07	11799290	TT		CC	CC	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50094_A_11799305	NC_021166.1	Ca_Kabuli_Chr07	11799305	AA		TT	TT	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50095_A_11799319	NC_021166.1	Ca_Kabuli_Chr07	11799319	CC		TT	TT	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50096_A_11799642	NC_021166.1	Ca_Kabuli_Chr07	11799642	AA		CC	CC	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50097_A_11799645	NC_021166.1	Ca_Kabuli_Chr07	11799645	TT		GG	GG	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50098_A_11799699	NC_021166.1	Ca_Kabuli_Chr07	11799699	GG		TT	TT	DRR	101489675	probable receptor-like protein kinase At2g23200
SNP_50099_A_11801109	NC_021166.1	Ca_Kabuli_Chr07	11801109	TT		AA	AA	NON_SYNONYMOUS_CODING	101489675	probable receptor-like protein kinase At2g23200
SNP_50100_A_11803540	NC_021166.1	Ca_Kabuli_Chr07	11803540	TT		CC	CC	URR	101489675	probable receptor-like protein kinase At2g23200
SNP_50101_A_11808154	NC_021166.1	Ca_Kabuli_Chr07	11808154	TT		CC	CC	INTERGENIC		
SNP_50102_A_11808161	NC_021166.1	Ca_Kabuli_Chr07	11808161	TT		CC	CC	INTERGENIC		
SNP_50103_A_11808834	NC_021166.1	Ca_Kabuli_Chr07	11808834	AA		TT	TT	INTERGENIC		
SNP_50104_A_11809148	NC_021166.1	Ca_Kabuli_Chr07	11809148	AA		TT	TT	INTERGENIC		
SNP_50105_A_11809876	NC_021166.1	Ca_Kabuli_Chr07	11809876	TT		CC	CC	INTERGENIC		
SNP_50106_A_11832544	NC_021166.1	Ca_Kabuli_Chr07	11832544	CC		AA	AA	INTERGENIC		
SNP_50107_A_11833326	NC_021166.1	Ca_Kabuli_Chr07	11833326	CC		TT	TT	INTERGENIC		
SNP_50108_A_11833866	NC_021166.1	Ca_Kabuli_Chr07	11833866	AA		GG	GG	INTERGENIC		
SNP_50109_A_11833900	NC_021166.1	Ca_Kabuli_Chr07	11833900	TT		CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50110_A_11833911	NC_021166.1	Ca_Kabuli_Chr07	11833911	GG	TT	TT	INTERGENIC		
SNP_50111_A_11833921	NC_021166.1	Ca_Kabuli_Chr07	11833921	GG	CC	CC	INTERGENIC		
SNP_50113_A_11834393	NC_021166.1	Ca_Kabuli_Chr07	11834393	CC	GG	GG	INTERGENIC		
SNP_50114_A_11835218	NC_021166.1	Ca_Kabuli_Chr07	11835218	TT	GG	GG	INTERGENIC		
SNP_50115_A_11835228	NC_021166.1	Ca_Kabuli_Chr07	11835228	AA	GG	GG	INTERGENIC		
SNP_50116_A_11841031	NC_021166.1	Ca_Kabuli_Chr07	11841031	CC	AA	AA	URR	101496472	UDP-glycosyltransferase 84B2-like
SNP_50117_A_11841296	NC_021166.1	Ca_Kabuli_Chr07	11841296	TT	GG	GG	URR	101496472	UDP-glycosyltransferase 84B2-like
SNP_50118_A_11849286	NC_021166.1	Ca_Kabuli_Chr07	11849286	TT	GG	GG	URR	101489997	uncharacterized LOC101489997
SNP_50119_A_11851075	NC_021166.1	Ca_Kabuli_Chr07	11851075	TT	CC	CC	URR	101489997	uncharacterized LOC101489997
SNP_50120_A_11851143	NC_021166.1	Ca_Kabuli_Chr07	11851143	CC	AA	AA	URR	101489997	uncharacterized LOC101489997
SNP_50121_A_11851169	NC_021166.1	Ca_Kabuli_Chr07	11851169	AA	GG	GG	URR	101489997	uncharacterized LOC101489997
SNP_50122_A_11851313	NC_021166.1	Ca_Kabuli_Chr07	11851313	GG	AA	AA	INTERGENIC		
SNP_50123_A_11851619	NC_021166.1	Ca_Kabuli_Chr07	11851619	TT	CC	CC	INTERGENIC		
SNP_50124_A_11851708	NC_021166.1	Ca_Kabuli_Chr07	11851708	TT	CC	CC	INTERGENIC		
SNP_50125_A_11851881	NC_021166.1	Ca_Kabuli_Chr07	11851881	AA	GG	GG	INTERGENIC		
SNP_50126_A_11851965	NC_021166.1	Ca_Kabuli_Chr07	11851965	TT	CC	CC	INTERGENIC		
SNP_50127_A_11851982	NC_021166.1	Ca_Kabuli_Chr07	11851982	TT	CC	CC	INTERGENIC		
SNP_50128_A_11851986	NC_021166.1	Ca_Kabuli_Chr07	11851986	AA	GG	GG	INTERGENIC		
SNP_50129_A_11853125	NC_021166.1	Ca_Kabuli_Chr07	11853125	AA	GG	GG	INTERGENIC		
SNP_50130_A_11853374	NC_021166.1	Ca_Kabuli_Chr07	11853374	TT	CC	CC	INTERGENIC		
SNP_50131_A_11853422	NC_021166.1	Ca_Kabuli_Chr07	11853422	TT	CC	CC	INTERGENIC		
SNP_50132_A_11854034	NC_021166.1	Ca_Kabuli_Chr07	11854034	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50133_A_11854042	NC_021166.1	Ca_Kabuli_Chr07	11854042	CC	TT	TT		INTERGENIC		
SNP_50134_A_11854093	NC_021166.1	Ca_Kabuli_Chr07	11854093	CC	TT	TT		DRR	101490333	protein MRG1
SNP_50135_A_11855807	NC_021166.1	Ca_Kabuli_Chr07	11855807	AA	GG	GG		INTRON	101490333	protein MRG1
SNP_50136_A_11870668	NC_021166.1	Ca_Kabuli_Chr07	11870668	CC	TT	TT		INTRON	101490333	protein MRG1
SNP_50137_A_11871785	NC_021166.1	Ca_Kabuli_Chr07	11871785	CC	AA	AA		INTRON	101490333	protein MRG1
SNP_50138_A_11873764	NC_021166.1	Ca_Kabuli_Chr07	11873764	TT	GG	GG		URR	101490333	protein MRG1
SNP_50139_A_11880170	NC_021166.1	Ca_Kabuli_Chr07	11880170	CC	AA	AA		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50140_A_11880171	NC_021166.1	Ca_Kabuli_Chr07	11880171	CC	TT	TT		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50141_A_11880172	NC_021166.1	Ca_Kabuli_Chr07	11880172	CC	TT	TT		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50142_A_11882768	NC_021166.1	Ca_Kabuli_Chr07	11882768	AA	GG	GG		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50143_A_11882810	NC_021166.1	Ca_Kabuli_Chr07	11882810	TT	CC	CC		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50144_A_11882933	NC_021166.1	Ca_Kabuli_Chr07	11882933	AA	GG	GG		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50145_A_11884166	NC_021166.1	Ca_Kabuli_Chr07	11884166	TT	CC	CC		SYNONYMOUS_CODING	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50146_A_11884513	NC_021166.1	Ca_Kabuli_Chr07	11884513	TT	CC	CC		INTRON	101490857	probable cadmium/zinc-transporting ATPase HMA1, chloroplastic
SNP_50148_A_11889743	NC_021166.1	Ca_Kabuli_Chr07	11889743	CC	AA	AA		DRR	101491174	transcription factor MYB44-like
SNP_50149_A_11889755	NC_021166.1	Ca_Kabuli_Chr07	11889755	AA	CC	CC		DRR	101491174	transcription factor MYB44-like
SNP_50151_A_11893514	NC_021166.1	Ca_Kabuli_Chr07	11893514	GG	AA	AA		URR	101491174	transcription factor MYB44-like
SNP_50152_A_11893808	NC_021166.1	Ca_Kabuli_Chr07	11893808	AA	TT	TT		INTERGENIC		
SNP_50153_A_11893857	NC_021166.1	Ca_Kabuli_Chr07	11893857	CC	TT	TT		INTERGENIC		
SNP_50154_A_11893897	NC_021166.1	Ca_Kabuli_Chr07	11893897	TT	CC	CC		INTERGENIC		
SNP_50155_A_11894257	NC_021166.1	Ca_Kabuli_Chr07	11894257	GG	TT	TT		INTERGENIC		
SNP_50156_A_11899697	NC_021166.1	Ca_Kabuli_Chr07	11899697	AA	GG	GG		INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50157_A_11900043	NC_021166.1	Ca_Kabuli_Chr07	11900043	AA	GG	GG	INTERGENIC		
SNP_50158_A_11902020	NC_021166.1	Ca_Kabuli_Chr07	11902020	GG	TT	TT	INTERGENIC		
SNP_50159_A_11902142	NC_021166.1	Ca_Kabuli_Chr07	11902142	CC	AA	AA	INTERGENIC		
SNP_50160_A_11902358	NC_021166.1	Ca_Kabuli_Chr07	11902358	GG	AA	AA	INTERGENIC		
SNP_50162_A_11902621	NC_021166.1	Ca_Kabuli_Chr07	11902621	CC	AA	AA	INTERGENIC		
SNP_50163_A_11902633	NC_021166.1	Ca_Kabuli_Chr07	11902633	GG	AA	AA	INTERGENIC		
SNP_50164_A_11902644	NC_021166.1	Ca_Kabuli_Chr07	11902644	TT	CC	CC	INTERGENIC		
SNP_50165_A_11902655	NC_021166.1	Ca_Kabuli_Chr07	11902655	TT	GG	GG	INTERGENIC		
SNP_50166_A_11905717	NC_021166.1	Ca_Kabuli_Chr07	11905717	AA	CC	CC	INTERGENIC		
SNP_50167_A_11911145	NC_021166.1	Ca_Kabuli_Chr07	11911145	TT	CC	CC	INTERGENIC		
SNP_50169_A_11913776	NC_021166.1	Ca_Kabuli_Chr07	11913776	TT	GG	GG	INTERGENIC		
SNP_50170_A_11913831	NC_021166.1	Ca_Kabuli_Chr07	11913831	GG	AA	AA	INTERGENIC		
SNP_50171_A_11926967	NC_021166.1	Ca_Kabuli_Chr07	11926967	AA	TT	TT	INTERGENIC		
SNP_50172_A_11928653	NC_021166.1	Ca_Kabuli_Chr07	11928653	GG	CC	CC	INTERGENIC		
SNP_50173_A_11933071	NC_021166.1	Ca_Kabuli_Chr07	11933071	TT	CC	CC	SYNONYMOUS_CODING	101491489	probable LRR receptor-like serine/threonine-protein kinase At4g37250
SNP_50174_A_11936552	NC_021166.1	Ca_Kabuli_Chr07	11936552	AA	GG	GG	URR	101491489	probable LRR receptor-like serine/threonine-protein kinase At4g37250
SNP_50175_A_11937888	NC_021166.1	Ca_Kabuli_Chr07	11937888	AA	GG	GG	INTERGENIC		
SNP_50176_A_11940393	NC_021166.1	Ca_Kabuli_Chr07	11940393	CC	TT	TT	INTERGENIC		
SNP_50177_A_11940400	NC_021166.1	Ca_Kabuli_Chr07	11940400	GG	TT	TT	INTERGENIC		
SNP_50178_A_11940404	NC_021166.1	Ca_Kabuli_Chr07	11940404	CC	TT	TT	INTERGENIC		
SNP_50179_A_11940635	NC_021166.1	Ca_Kabuli_Chr07	11940635	TT	CC	CC	INTERGENIC		
SNP_50180_A_11940662	NC_021166.1	Ca_Kabuli_Chr07	11940662	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50181_A_11940663	NC_021166.1	Ca_Kabuli_Chr07	11940663	GG	TT	TT	INTERGENIC			
SNP_50182_A_11940671	NC_021166.1	Ca_Kabuli_Chr07	11940671	TT	CC	CC	INTERGENIC			
SNP_50183_A_11940723	NC_021166.1	Ca_Kabuli_Chr07	11940723	CC	TT	TT	INTERGENIC			
SNP_50184_A_11940902	NC_021166.1	Ca_Kabuli_Chr07	11940902	TT	GG	GG	INTERGENIC			
SNP_50185_A_11940999	NC_021166.1	Ca_Kabuli_Chr07	11940999	TT	AA	AA	INTERGENIC			
SNP_50186_A_11941010	NC_021166.1	Ca_Kabuli_Chr07	11941010	CC	TT	TT	INTERGENIC			
SNP_50187_A_11948778	NC_021166.1	Ca_Kabuli_Chr07	11948778	GG	AA	AA	URR		101491802	cyclin-D3-3
SNP_50188_A_11954216	NC_021166.1	Ca_Kabuli_Chr07	11954216	TT	GG	GG	INTERGENIC			
SNP_50189_A_11956358	NC_021166.1	Ca_Kabuli_Chr07	11956358	GG	AA	AA	INTERGENIC			
SNP_50190_A_11956385	NC_021166.1	Ca_Kabuli_Chr07	11956385	AA	GG	GG	INTERGENIC			
SNP_50191_A_11957131	NC_021166.1	Ca_Kabuli_Chr07	11957131	TT	CC	CC	INTERGENIC			
SNP_50192_A_11957779	NC_021166.1	Ca_Kabuli_Chr07	11957779	CC	TT	TT	INTERGENIC			
SNP_50193_A_11957783	NC_021166.1	Ca_Kabuli_Chr07	11957783	TT	AA	AA	INTERGENIC			
SNP_50194_A_11960263	NC_021166.1	Ca_Kabuli_Chr07	11960263	TT	CC	CC	INTERGENIC			
SNP_50197_A_11961298	NC_021166.1	Ca_Kabuli_Chr07	11961298	AA	CC	CC	INTERGENIC			
SNP_50198_A_11962763	NC_021166.1	Ca_Kabuli_Chr07	11962763	GG	AA	AA	INTERGENIC			
SNP_50199_A_11963467	NC_021166.1	Ca_Kabuli_Chr07	11963467	CC	GG	GG	INTERGENIC			
SNP_50200_A_11969177	NC_021166.1	Ca_Kabuli_Chr07	11969177	TT	AA	AA	DRR		101492131	protein RER1A-like
SNP_50201_A_11969185	NC_021166.1	Ca_Kabuli_Chr07	11969185	AA	TT	TT	DRR		101492131	protein RER1A-like
SNP_50202_A_11969254	NC_021166.1	Ca_Kabuli_Chr07	11969254	CC	TT	TT	DRR		101492131	protein RER1A-like
SNP_50203_A_11969256	NC_021166.1	Ca_Kabuli_Chr07	11969256	AA	TT	TT	DRR		101492131	protein RER1A-like
SNP_50204_A_11969384	NC_021166.1	Ca_Kabuli_Chr07	11969384	TT	CC	CC	DRR		101492131	protein RER1A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50205_A_11969431	NC_021166.1	Ca_Kabuli_Chr07	11969431	AA	GG	GG	DRR	101492131	protein RER1A-like
SNP_50206_A_11971210	NC_021166.1	Ca_Kabuli_Chr07	11971210	CC	AA	AA	INTERGENIC		
SNP_50207_A_11973352	NC_021166.1	Ca_Kabuli_Chr07	11973352	AA	TT	TT	DRR	101492472	cysteine proteinase RD21a-like
SNP_50208_A_11974792	NC_021166.1	Ca_Kabuli_Chr07	11974792	TT	AA	AA	URR	101492131	protein RER1A-like
SNP_50209_A_11975003	NC_021166.1	Ca_Kabuli_Chr07	11975003	CC	AA	AA	INTERGENIC		
SNP_50210_A_11975240	NC_021166.1	Ca_Kabuli_Chr07	11975240	CC	TT	TT	INTERGENIC		
SNP_50211_A_11976369	NC_021166.1	Ca_Kabuli_Chr07	11976369	AA	CC	CC	INTERGENIC		
SNP_50213_A_11984983	NC_021166.1	Ca_Kabuli_Chr07	11984983	CC	AA	AA	INTRON	101492806	probable beta-1,4-xylosyltransferase IRX14H
SNP_50214_A_11988351	NC_021166.1	Ca_Kabuli_Chr07	11988351	CC	TT	TT	URR	101492806	probable beta-1,4-xylosyltransferase IRX14H
SNP_50215_A_11988371	NC_021166.1	Ca_Kabuli_Chr07	11988371	GG	AA	AA	URR	101492806	probable beta-1,4-xylosyltransferase IRX14H
SNP_50218_A_11991361	NC_021166.1	Ca_Kabuli_Chr07	11991361	GG	AA	AA	INTERGENIC		
SNP_50219_A_12002843	NC_021166.1	Ca_Kabuli_Chr07	12002843	CC	TT	TT	INTERGENIC		
SNP_50220_A_12002857	NC_021166.1	Ca_Kabuli_Chr07	12002857	CC	TT	TT	INTERGENIC		
SNP_50221_A_12004138	NC_021166.1	Ca_Kabuli_Chr07	12004138	TT	CC	CC	INTERGENIC		
SNP_50222_A_12006673	NC_021166.1	Ca_Kabuli_Chr07	12006673	AA	TT	TT	INTERGENIC		
SNP_50224_A_12009417	NC_021166.1	Ca_Kabuli_Chr07	12009417	AA	GG	GG	INTERGENIC		
SNP_50225_A_12009434	NC_021166.1	Ca_Kabuli_Chr07	12009434	TT	CC	CC	INTERGENIC		
SNP_50226_A_12009453	NC_021166.1	Ca_Kabuli_Chr07	12009453	TT	CC	CC	INTERGENIC		
SNP_50227_A_12024260	NC_021166.1	Ca_Kabuli_Chr07	12024260	TT	CC	CC	URR	101493135	probable WRKY transcription factor 15
SNP_50230_A_12025551	NC_021166.1	Ca_Kabuli_Chr07	12025551	TT	AA	AA	URR	101493135	probable WRKY transcription factor 15
SNP_50231_A_12025903	NC_021166.1	Ca_Kabuli_Chr07	12025903	CC	TT	TT	INTERGENIC		
SNP_50232_A_12026759	NC_021166.1	Ca_Kabuli_Chr07	12026759	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50233_A_12027090	NC_021166.1	Ca_Kabuli_Chr07	12027090	AA	CC	CC	INTERGENIC		
SNP_50234_A_12027159	NC_021166.1	Ca_Kabuli_Chr07	12027159	GG	AA	AA	INTERGENIC		
SNP_50235_A_12027209	NC_021166.1	Ca_Kabuli_Chr07	12027209	GG	TT	TT	INTERGENIC		
SNP_50236_A_12033623	NC_021166.1	Ca_Kabuli_Chr07	12033623	AA	TT	TT	URR	101493683	tRNA-dihydrouridine(16/17) synthase [NAD(P)(+)]-like
SNP_50237_A_12033913	NC_021166.1	Ca_Kabuli_Chr07	12033913	GG	CC	CC	URR	101493683	tRNA-dihydrouridine(16/17) synthase [NAD(P)(+)]-like
SNP_50238_A_12034342	NC_021166.1	Ca_Kabuli_Chr07	12034342	TT	CC	CC	URR	101493683	tRNA-dihydrouridine(16/17) synthase [NAD(P)(+)]-like
SNP_50239_A_12035016	NC_021166.1	Ca_Kabuli_Chr07	12035016	AA	GG	GG	INTERGENIC		
SNP_50240_A_12042924	NC_021166.1	Ca_Kabuli_Chr07	12042924	AA	GG	GG	INTERGENIC		
SNP_50241_A_12044416	NC_021166.1	Ca_Kabuli_Chr07	12044416	GG	CC	CC	INTERGENIC		
SNP_50242_A_12044643	NC_021166.1	Ca_Kabuli_Chr07	12044643	GG	CC	CC	INTERGENIC		
SNP_50243_A_12044696	NC_021166.1	Ca_Kabuli_Chr07	12044696	TT	CC	CC	INTERGENIC		
SNP_50244_A_12046564	NC_021166.1	Ca_Kabuli_Chr07	12046564	TT	CC	CC	URR	101494526	protein IRX15-LIKE
SNP_50245_A_12047379	NC_021166.1	Ca_Kabuli_Chr07	12047379	AA	GG	GG	URR	101494526	protein IRX15-LIKE
SNP_50246_A_12047972	NC_021166.1	Ca_Kabuli_Chr07	12047972	GG	AA	AA	INTERGENIC		
SNP_50247_A_12048986	NC_021166.1	Ca_Kabuli_Chr07	12048986	AA	TT	TT	INTERGENIC		
SNP_50248_A_12050287	NC_021166.1	Ca_Kabuli_Chr07	12050287	GG	CC	CC	INTERGENIC		
SNP_50249_A_12050643	NC_021166.1	Ca_Kabuli_Chr07	12050643	AA	GG	GG	INTERGENIC		
SNP_50250_A_12059221	NC_021166.1	Ca_Kabuli_Chr07	12059221	CC	TT	TT	INTERGENIC		
SNP_50251_A_12059704	NC_021166.1	Ca_Kabuli_Chr07	12059704	GG	AA	AA	INTERGENIC		
SNP_50252_A_12060084	NC_021166.1	Ca_Kabuli_Chr07	12060084	AA	GG	GG	INTERGENIC		
SNP_50253_A_12064128	NC_021166.1	Ca_Kabuli_Chr07	12064128	TT	GG	GG	DRR	101494845	probable inactive receptor kinase At5g67200
SNP_50254_A_12074467	NC_021166.1	Ca_Kabuli_Chr07	12074467	AA	CC	CC	INTRON	101495174	kinesin-like protein FRA1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50255_A_12080179	NC_021166.1	Ca_Kabuli_Chr07	12080179	CC	AA	AA	INTRON	101495174	kinesin-like protein FRA1
SNP_50256_A_12082115	NC_021166.1	Ca_Kabuli_Chr07	12082115	CC	GG	GG	URR	101495174	kinesin-like protein FRA1
SNP_50257_A_12082474	NC_021166.1	Ca_Kabuli_Chr07	12082474	CC	GG	GG	URR	101495174	kinesin-like protein FRA1
SNP_50258_A_12083361	NC_021166.1	Ca_Kabuli_Chr07	12083361	CC	TT	TT	URR	101495174	kinesin-like protein FRA1
SNP_50259_A_12083369	NC_021166.1	Ca_Kabuli_Chr07	12083369	CC	TT	TT	URR	101495174	kinesin-like protein FRA1
SNP_50260_A_12083583	NC_021166.1	Ca_Kabuli_Chr07	12083583	AA	GG	GG	URR	101495174	kinesin-like protein FRA1
SNP_50261_A_12083590	NC_021166.1	Ca_Kabuli_Chr07	12083590	AA	GG	GG	URR	101495174	kinesin-like protein FRA1
SNP_50262_A_12085646	NC_021166.1	Ca_Kabuli_Chr07	12085646	TT	AA	AA	INTERGENIC		
SNP_50263_A_12085901	NC_021166.1	Ca_Kabuli_Chr07	12085901	CC	GG	GG	INTERGENIC		
SNP_50264_A_12089251	NC_021166.1	Ca_Kabuli_Chr07	12089251	GG	AA	AA	INTERGENIC		
SNP_50265_A_12091155	NC_021166.1	Ca_Kabuli_Chr07	12091155	TT	CC	CC	INTERGENIC		
SNP_50266_A_12092536	NC_021166.1	Ca_Kabuli_Chr07	12092536	TT	CC	CC	INTERGENIC		
SNP_50268_A_12093538	NC_021166.1	Ca_Kabuli_Chr07	12093538	TT	AA	AA	INTERGENIC		
SNP_50269_A_12094876	NC_021166.1	Ca_Kabuli_Chr07	12094876	TT	AA	AA	INTERGENIC		
SNP_50270_A_12094908	NC_021166.1	Ca_Kabuli_Chr07	12094908	AA	GG	GG	INTERGENIC		
SNP_50271_A_12094917	NC_021166.1	Ca_Kabuli_Chr07	12094917	GG	CC	CC	INTERGENIC		
SNP_50272_A_12095117	NC_021166.1	Ca_Kabuli_Chr07	12095117	GG	AA	AA	INTERGENIC		
SNP_50273_A_12095476	NC_021166.1	Ca_Kabuli_Chr07	12095476	CC	AA	AA	INTERGENIC		
SNP_50274_A_12097026	NC_021166.1	Ca_Kabuli_Chr07	12097026	CC	AA	AA	DRR	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50275_A_12099314	NC_021166.1	Ca_Kabuli_Chr07	12099314	CC	AA	AA	INTRON	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50276_A_12100175	NC_021166.1	Ca_Kabuli_Chr07	12100175	CC	AA	AA	INTRON	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50277_A_12100176	NC_021166.1	Ca_Kabuli_Chr07	12100176	AA	GG	GG	INTRON	101495599	SUMO-conjugating enzyme SCE1-like

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SNP_50278_A_12100490	NC_021166.1	Ca_Kabuli_Chr07	12100490	TT	CC	CC	INTRON	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50279_A_12100570	NC_021166.1	Ca_Kabuli_Chr07	12100570	CC	AA	AA	INTRON	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50280_A_12103954	NC_021166.1	Ca_Kabuli_Chr07	12103954	CC	TT	TT	URR	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50281_A_12103956	NC_021166.1	Ca_Kabuli_Chr07	12103956	GG	AA	AA	URR	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50282_A_12103962	NC_021166.1	Ca_Kabuli_Chr07	12103962	CC	TT	TT	URR	101495599	SUMO-conjugating enzyme SCE1-like
SNP_50283_A_12105540	NC_021166.1	Ca_Kabuli_Chr07	12105540	CC	TT	TT	INTERGENIC		
SNP_50284_A_12105541	NC_021166.1	Ca_Kabuli_Chr07	12105541	AA	CC	CC	INTERGENIC		
SNP_50285_A_12105542	NC_021166.1	Ca_Kabuli_Chr07	12105542	AA	GG	GG	INTERGENIC		
SNP_50286_A_12105583	NC_021166.1	Ca_Kabuli_Chr07	12105583	TT	AA	AA	INTERGENIC		
SNP_50287_A_12105902	NC_021166.1	Ca_Kabuli_Chr07	12105902	TT	AA	AA	INTERGENIC		
SNP_50288_A_12105903	NC_021166.1	Ca_Kabuli_Chr07	12105903	CC	TT	TT	INTERGENIC		
SNP_50289_A_12105913	NC_021166.1	Ca_Kabuli_Chr07	12105913	CC	TT	TT	INTERGENIC		
SNP_50290_A_12105916	NC_021166.1	Ca_Kabuli_Chr07	12105916	TT	AA	AA	INTERGENIC		
SNP_50291_A_12105971	NC_021166.1	Ca_Kabuli_Chr07	12105971	TT	AA	AA	INTERGENIC		
SNP_50292_A_12106619	NC_021166.1	Ca_Kabuli_Chr07	12106619	CC	GG	GG	INTERGENIC		
SNP_50293_A_12106800	NC_021166.1	Ca_Kabuli_Chr07	12106800	TT	CC	CC	INTERGENIC		
SNP_50295_A_12108290	NC_021166.1	Ca_Kabuli_Chr07	12108290	TT	AA	AA	INTERGENIC		
SNP_50296_A_12111795	NC_021166.1	Ca_Kabuli_Chr07	12111795	CC	TT	TT	INTERGENIC		
SNP_50297_A_12111849	NC_021166.1	Ca_Kabuli_Chr07	12111849	TT	GG	GG	INTERGENIC		
SNP_50298_A_12117865	NC_021166.1	Ca_Kabuli_Chr07	12117865	CC	AA	AA	INTERGENIC		
SNP_50299_A_12119600	NC_021166.1	Ca_Kabuli_Chr07	12119600	GG	AA	AA	INTERGENIC		
SNP_50300_A_12124805	NC_021166.1	Ca_Kabuli_Chr07	12124805	AA	CC	CC	URR	101495928	floral homeotic protein APETALA 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50302_A_12129529	NC_021166.1	Ca_Kabuli_Chr07	12129529	GG	AA	AA	INTERGENIC			
SNP_50303_A_12129530	NC_021166.1	Ca_Kabuli_Chr07	12129530	CC	GG	GG	INTERGENIC			
SNP_50304_A_12129818	NC_021166.1	Ca_Kabuli_Chr07	12129818	TT	GG	GG	INTERGENIC			
SNP_50305_A_12130321	NC_021166.1	Ca_Kabuli_Chr07	12130321	GG	CC	CC	INTERGENIC			
SNP_50306_A_12130350	NC_021166.1	Ca_Kabuli_Chr07	12130350	TT	CC	CC	INTERGENIC			
SNP_50307_A_12130554	NC_021166.1	Ca_Kabuli_Chr07	12130554	GG	AA	AA	INTERGENIC			
SNP_50308_A_12130878	NC_021166.1	Ca_Kabuli_Chr07	12130878	AA	TT	TT	INTERGENIC			
SNP_50309_A_12133844	NC_021166.1	Ca_Kabuli_Chr07	12133844	AA	TT	TT	INTERGENIC			
SNP_50310_A_12135105	NC_021166.1	Ca_Kabuli_Chr07	12135105	GG	CC	CC	INTERGENIC			
SNP_50311_A_12135106	NC_021166.1	Ca_Kabuli_Chr07	12135106	AA	GG	GG	INTERGENIC			
SNP_50312_A_12135447	NC_021166.1	Ca_Kabuli_Chr07	12135447	TT	CC	CC	INTERGENIC			
SNP_50313_A_12138009	NC_021166.1	Ca_Kabuli_Chr07	12138009	CC	TT	TT	INTERGENIC			
SNP_50314_A_12138323	NC_021166.1	Ca_Kabuli_Chr07	12138323	CC	TT	TT	INTERGENIC			
SNP_50315_A_12138355	NC_021166.1	Ca_Kabuli_Chr07	12138355	GG	AA	AA	INTERGENIC			
SNP_50316_A_12138523	NC_021166.1	Ca_Kabuli_Chr07	12138523	TT	CC	CC	INTERGENIC			
SNP_50318_A_12138564	NC_021166.1	Ca_Kabuli_Chr07	12138564	AA	TT	TT	INTERGENIC			
SNP_50319_A_12141060	NC_021166.1	Ca_Kabuli_Chr07	12141060	TT	GG	GG	INTERGENIC			
SNP_50320_A_12141272	NC_021166.1	Ca_Kabuli_Chr07	12141272	CC	TT	TT	INTERGENIC			
SNP_50321_A_12141840	NC_021166.1	Ca_Kabuli_Chr07	12141840	GG	AA	AA	INTERGENIC			
SNP_50322_A_12142450	NC_021166.1	Ca_Kabuli_Chr07	12142450	CC	TT	TT	INTERGENIC			
SNP_50323_A_12142508	NC_021166.1	Ca_Kabuli_Chr07	12142508	GG	AA	AA	INTERGENIC			
SNP_50324_A_12142513	NC_021166.1	Ca_Kabuli_Chr07	12142513	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50325_A_12143225	NC_021166.1	Ca_Kabuli_Chr07	12143225	GG	TT	TT	INTERGENIC		
SNP_50327_A_12143773	NC_021166.1	Ca_Kabuli_Chr07	12143773	AA	TT	TT	INTERGENIC		
SNP_50328_A_12143808	NC_021166.1	Ca_Kabuli_Chr07	12143808	CC	TT	TT	INTERGENIC		
SNP_50329_A_12144178	NC_021166.1	Ca_Kabuli_Chr07	12144178	AA	TT	TT	INTERGENIC		
SNP_50330_A_12144292	NC_021166.1	Ca_Kabuli_Chr07	12144292	AA	TT	TT	INTERGENIC		
SNP_50332_A_12146380	NC_021166.1	Ca_Kabuli_Chr07	12146380	TT	AA	AA	INTERGENIC		
SNP_50333_A_12148444	NC_021166.1	Ca_Kabuli_Chr07	12148444	TT	CC	CC	INTRON	101496262	OTU domain-containing protein 3
SNP_50334_A_12148501	NC_021166.1	Ca_Kabuli_Chr07	12148501	AA	CC	CC	INTRON	101496262	OTU domain-containing protein 3
SNP_50335_A_12149338	NC_021166.1	Ca_Kabuli_Chr07	12149338	TT	GG	GG	INTRON	101496262	OTU domain-containing protein 3
SNP_50336_A_12154740	NC_021166.1	Ca_Kabuli_Chr07	12154740	TT	CC	CC	URR	101496262	OTU domain-containing protein 3
SNP_50337_A_12155168	NC_021166.1	Ca_Kabuli_Chr07	12155168	TT	AA	AA	URR	101496262	OTU domain-containing protein 3
SNP_50338_A_12156478	NC_021166.1	Ca_Kabuli_Chr07	12156478	GG	AA	AA	DRR	101497896	filament-like plant protein 7
SNP_50339_A_12156536	NC_021166.1	Ca_Kabuli_Chr07	12156536	TT	CC	CC	DRR	101497896	filament-like plant protein 7
SNP_50340_A_12167490	NC_021166.1	Ca_Kabuli_Chr07	12167490	GG	CC	CC	DRR	101498451	uncharacterized acetyltransferase At3g50280-like
SNP_50341_A_12167574	NC_021166.1	Ca_Kabuli_Chr07	12167574	TT	GG	GG	DRR	101498451	uncharacterized acetyltransferase At3g50280-like
SNP_50342_A_12168008	NC_021166.1	Ca_Kabuli_Chr07	12168008	GG	AA	AA	INTERGENIC		
SNP_50343_A_12168045	NC_021166.1	Ca_Kabuli_Chr07	12168045	GG	CC	CC	INTERGENIC		
SNP_50344_A_12169268	NC_021166.1	Ca_Kabuli_Chr07	12169268	TT	GG	GG	URR	101498451	uncharacterized acetyltransferase At3g50280-like
SNP_50345_A_12169276	NC_021166.1	Ca_Kabuli_Chr07	12169276	GG	CC	CC	URR	101498451	uncharacterized acetyltransferase At3g50280-like
SNP_50346_A_12169285	NC_021166.1	Ca_Kabuli_Chr07	12169285	AA	GG	GG	URR	101498451	uncharacterized acetyltransferase At3g50280-like
SNP_50347_A_12173083	NC_021166.1	Ca_Kabuli_Chr07	12173083	CC	TT	TT	INTERGENIC		
SNP_50348_A_12175125	NC_021166.1	Ca_Kabuli_Chr07	12175125	TT	CC	CC	DRR	101498793	uncharacterized acetyltransferase At3g50280-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50349_A_12186426	NC_021166.1	Ca_Kabuli_Chr07	12186426	TT	CC	CC	URR	101499114	uncharacterized LOC101499114
SNP_50350_A_12192064	NC_021166.1	Ca_Kabuli_Chr07	12192064	TT	AA	AA	INTERGENIC		
SNP_50351_A_12192953	NC_021166.1	Ca_Kabuli_Chr07	12192953	GG	TT	TT	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50352_A_12192976	NC_021166.1	Ca_Kabuli_Chr07	12192976	CC	TT	TT	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50353_A_12193040	NC_021166.1	Ca_Kabuli_Chr07	12193040	CC	TT	TT	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50354_A_12193051	NC_021166.1	Ca_Kabuli_Chr07	12193051	TT	CC	CC	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50355_A_12193714	NC_021166.1	Ca_Kabuli_Chr07	12193714	GG	AA	AA	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50356_A_12194633	NC_021166.1	Ca_Kabuli_Chr07	12194633	CC	TT	TT	URR	101499931	PI-PLC X domain-containing protein At5g67130-like
SNP_50357_A_12195453	NC_021166.1	Ca_Kabuli_Chr07	12195453	AA	TT	TT	INTERGENIC		
SNP_50358_A_12196622	NC_021166.1	Ca_Kabuli_Chr07	12196622	TT	CC	CC	INTERGENIC		
SNP_50359_A_12196657	NC_021166.1	Ca_Kabuli_Chr07	12196657	CC	TT	TT	INTERGENIC		
SNP_50360_A_12196669	NC_021166.1	Ca_Kabuli_Chr07	12196669	TT	GG	GG	INTERGENIC		
SNP_50361_A_12198383	NC_021166.1	Ca_Kabuli_Chr07	12198383	GG	AA	AA	INTERGENIC		
SNP_50362_A_12204101	NC_021166.1	Ca_Kabuli_Chr07	12204101	TT	CC	CC	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50363_A_12204733	NC_021166.1	Ca_Kabuli_Chr07	12204733	AA	GG	GG	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50364_A_12204738	NC_021166.1	Ca_Kabuli_Chr07	12204738	TT	CC	CC	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50365_A_12204751	NC_021166.1	Ca_Kabuli_Chr07	12204751	TT	GG	GG	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50366_A_12204754	NC_021166.1	Ca_Kabuli_Chr07	12204754	CC	TT	TT	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50367_A_12204776	NC_021166.1	Ca_Kabuli_Chr07	12204776	AA	GG	GG	URR	101497128	isoaspartyl peptidase/L-asparaginase-like
SNP_50368_A_12207386	NC_021166.1	Ca_Kabuli_Chr07	12207386	GG	AA	AA	DRR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50369_A_12207775	NC_021166.1	Ca_Kabuli_Chr07	12207775	GG	AA	AA	NON_SYNONYMOUS_CODING	id165406	Unknown function
SNP_50370_A_12210145	NC_021166.1	Ca_Kabuli_Chr07	12210145	CC	GG	GG	INTRON	id165406	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50372_A_12210740	NC_021166.1	Ca_Kabuli_Chr07	12210740	AA	CC	CC	NON_SYNONYMOUS_CODING	id165406	Unknown function
SNP_50373_A_12211327	NC_021166.1	Ca_Kabuli_Chr07	12211327	AA	GG	GG	URR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50374_A_12211360	NC_021166.1	Ca_Kabuli_Chr07	12211360	TT	CC	CC	URR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50375_A_12211465	NC_021166.1	Ca_Kabuli_Chr07	12211465	AA	TT	TT	URR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50376_A_12211485	NC_021166.1	Ca_Kabuli_Chr07	12211485	TT	GG	GG	URR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50377_A_12211507	NC_021166.1	Ca_Kabuli_Chr07	12211507	TT	CC	CC	URR	101500474	caffeoyl-CoA O-methyltransferase 5-like
SNP_50379_A_12212940	NC_021166.1	Ca_Kabuli_Chr07	12212940	TT	CC	CC	INTERGENIC		
SNP_50381_A_12214612	NC_021166.1	Ca_Kabuli_Chr07	12214612	AA	GG	GG	INTERGENIC		
SNP_50382_A_12224441	NC_021166.1	Ca_Kabuli_Chr07	12224441	GG	AA	AA	INTERGENIC		
SNP_50383_A_12227658	NC_021166.1	Ca_Kabuli_Chr07	12227658	GG	TT	TT	INTERGENIC		
SNP_50385_A_12234117	NC_021166.1	Ca_Kabuli_Chr07	12234117	CC	TT	TT	INTERGENIC		
SNP_50387_A_12236777	NC_021166.1	Ca_Kabuli_Chr07	12236777	CC	TT	TT	INTERGENIC		
SNP_50388_A_12239322	NC_021166.1	Ca_Kabuli_Chr07	12239322	CC	TT	TT	INTERGENIC		
SNP_50389_A_12239329	NC_021166.1	Ca_Kabuli_Chr07	12239329	AA	TT	TT	INTERGENIC		
SNP_50390_A_12241110	NC_021166.1	Ca_Kabuli_Chr07	12241110	AA	GG	GG	INTERGENIC		
SNP_50391_A_12241461	NC_021166.1	Ca_Kabuli_Chr07	12241461	CC	TT	TT	INTERGENIC		
SNP_50392_A_12249667	NC_021166.1	Ca_Kabuli_Chr07	12249667	AA	GG	GG	INTRON	101500792	nicotinate phosphoribosyltransferase 2-like
SNP_50393_A_12251734	NC_021166.1	Ca_Kabuli_Chr07	12251734	TT	AA	AA	INTRON	101500792	nicotinate phosphoribosyltransferase 2-like
SNP_50394_A_12253229	NC_021166.1	Ca_Kabuli_Chr07	12253229	AA	CC	CC	DRR	101501112	uncharacterized LOC101501112
SNP_50395_A_12258573	NC_021166.1	Ca_Kabuli_Chr07	12258573	GG	AA	AA	INTERGENIC		
SNP_50396_A_12258582	NC_021166.1	Ca_Kabuli_Chr07	12258582	GG	AA	AA	INTERGENIC		
SNP_50397_A_12258592	NC_021166.1	Ca_Kabuli_Chr07	12258592	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50398_A_12259079	NC_021166.1	Ca_Kabuli_Chr07	12259079	CC	TT	TT	INTERGENIC		
SNP_50399_A_12262878	NC_021166.1	Ca_Kabuli_Chr07	12262878	TT	AA	AA	INTERGENIC		
SNP_50400_A_12264913	NC_021166.1	Ca_Kabuli_Chr07	12264913	CC	AA	AA	DRR	101501425	mitogen-activated protein kinase kinase kinase 3-like
SNP_50401_A_12265294	NC_021166.1	Ca_Kabuli_Chr07	12265294	GG	AA	AA	SYNONYMOUS_CODING	101501425	mitogen-activated protein kinase kinase kinase 3-like
SNP_50403_A_12268381	NC_021166.1	Ca_Kabuli_Chr07	12268381	AA	GG	GG	URR	101501425	mitogen-activated protein kinase kinase kinase 3-like
SNP_50404_A_12269619	NC_021166.1	Ca_Kabuli_Chr07	12269619	TT	GG	GG	INTERGENIC		
SNP_50405_A_12269636	NC_021166.1	Ca_Kabuli_Chr07	12269636	GG	AA	AA	INTERGENIC		
SNP_50406_A_12269860	NC_021166.1	Ca_Kabuli_Chr07	12269860	CC	AA	AA	INTERGENIC		
SNP_50407_A_12269892	NC_021166.1	Ca_Kabuli_Chr07	12269892	GG	TT	TT	INTERGENIC		
SNP_50408_A_12270820	NC_021166.1	Ca_Kabuli_Chr07	12270820	TT	AA	AA	INTERGENIC		
SNP_50409_A_12270838	NC_021166.1	Ca_Kabuli_Chr07	12270838	AA	TT	TT	INTERGENIC		
SNP_50410_A_12271713	NC_021166.1	Ca_Kabuli_Chr07	12271713	CC	AA	AA	INTERGENIC		
SNP_50411_A_12272163	NC_021166.1	Ca_Kabuli_Chr07	12272163	GG	AA	AA	INTERGENIC		
SNP_50413_A_12280290	NC_021166.1	Ca_Kabuli_Chr07	12280290	AA	TT	TT	INTERGENIC		
SNP_50414_A_12280336	NC_021166.1	Ca_Kabuli_Chr07	12280336	TT	AA	AA	INTERGENIC		
SNP_50415_A_12283364	NC_021166.1	Ca_Kabuli_Chr07	12283364	GG	AA	AA	INTERGENIC		
SNP_50417_A_12284814	NC_021166.1	Ca_Kabuli_Chr07	12284814	CC	TT	TT	INTERGENIC		
SNP_50418_A_12285025	NC_021166.1	Ca_Kabuli_Chr07	12285025	CC	TT	TT	INTERGENIC		
SNP_50419_A_12285030	NC_021166.1	Ca_Kabuli_Chr07	12285030	GG	AA	AA	INTERGENIC		
SNP_50420_A_12285548	NC_021166.1	Ca_Kabuli_Chr07	12285548	AA	TT	TT	INTERGENIC		
SNP_50421_A_12285595	NC_021166.1	Ca_Kabuli_Chr07	12285595	AA	GG	GG	INTERGENIC		
SNP_50422_A_12285598	NC_021166.1	Ca_Kabuli_Chr07	12285598	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50424_A_12286441	NC_021166.1	Ca_Kabuli_Chr07	12286441	TT		GG	GG	INTERGENIC		
SNP_50425_A_12286564	NC_021166.1	Ca_Kabuli_Chr07	12286564	GG		AA	AA	INTERGENIC		
SNP_50426_A_12286580	NC_021166.1	Ca_Kabuli_Chr07	12286580	AA		GG	GG	INTERGENIC		
SNP_50427_A_12286600	NC_021166.1	Ca_Kabuli_Chr07	12286600	GG		TT	TT	INTERGENIC		
SNP_50428_A_12286870	NC_021166.1	Ca_Kabuli_Chr07	12286870	CC		AA	AA	INTERGENIC		
SNP_50429_A_12288533	NC_021166.1	Ca_Kabuli_Chr07	12288533	AA		CC	CC	INTERGENIC		
SNP_50430_A_12290386	NC_021166.1	Ca_Kabuli_Chr07	12290386	CC		TT	TT	INTERGENIC		
SNP_50431_A_12290445	NC_021166.1	Ca_Kabuli_Chr07	12290445	CC		TT	TT	INTERGENIC		
SNP_50432_A_12290869	NC_021166.1	Ca_Kabuli_Chr07	12290869	GG		AA	AA	INTERGENIC		
SNP_50434_A_12291414	NC_021166.1	Ca_Kabuli_Chr07	12291414	TT		CC	CC	INTERGENIC		
SNP_50435_A_12291438	NC_021166.1	Ca_Kabuli_Chr07	12291438	CC		TT	TT	INTERGENIC		
SNP_50436_A_12291443	NC_021166.1	Ca_Kabuli_Chr07	12291443	TT		AA	AA	INTERGENIC		
SNP_50437_A_12291469	NC_021166.1	Ca_Kabuli_Chr07	12291469	TT		GG	GG	INTERGENIC		
SNP_50438_A_12291482	NC_021166.1	Ca_Kabuli_Chr07	12291482	AA		TT	TT	INTERGENIC		
SNP_50439_A_12292340	NC_021166.1	Ca_Kabuli_Chr07	12292340	GG		AA	AA	INTERGENIC		
SNP_50440_A_12292441	NC_021166.1	Ca_Kabuli_Chr07	12292441	AA		TT	TT	INTERGENIC		
SNP_50441_A_12293450	NC_021166.1	Ca_Kabuli_Chr07	12293450	GG		AA	AA	INTERGENIC		
SNP_50442_A_12293481	NC_021166.1	Ca_Kabuli_Chr07	12293481	GG		TT	TT	INTERGENIC		
SNP_50443_A_12298245	NC_021166.1	Ca_Kabuli_Chr07	12298245	TT		AA	AA	DRR	101501740	transcription factor HEC1
SNP_50445_A_12300526	NC_021166.1	Ca_Kabuli_Chr07	12300526	AA		GG	GG	INTRON	101501740	transcription factor HEC1
SNP_50446_A_12300531	NC_021166.1	Ca_Kabuli_Chr07	12300531	GG		AA	AA	INTRON	101501740	transcription factor HEC1
SNP_50447_A_12301966	NC_021166.1	Ca_Kabuli_Chr07	12301966	CC		AA	AA	URR	101501740	transcription factor HEC1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50448_A_12303190	NC_021166.1	Ca_Kabuli_Chr07	12303190	TT	CC	CC	URR	101501740	transcription factor HEC1
SNP_50449_A_12304987	NC_021166.1	Ca_Kabuli_Chr07	12304987	AA	GG	GG	INTERGENIC		
SNP_50450_A_12307194	NC_021166.1	Ca_Kabuli_Chr07	12307194	TT	CC	CC	INTERGENIC		
SNP_50451_A_12307199	NC_021166.1	Ca_Kabuli_Chr07	12307199	AA	TT	TT	INTERGENIC		
SNP_50452_A_12307201	NC_021166.1	Ca_Kabuli_Chr07	12307201	AA	TT	TT	INTERGENIC		
SNP_50453_A_12308376	NC_021166.1	Ca_Kabuli_Chr07	12308376	TT	CC	CC	INTERGENIC		
SNP_50454_A_12308589	NC_021166.1	Ca_Kabuli_Chr07	12308589	AA	GG	GG	INTERGENIC		
SNP_50455_A_12308936	NC_021166.1	Ca_Kabuli_Chr07	12308936	AA	TT	TT	INTERGENIC		
SNP_50456_A_12308943	NC_021166.1	Ca_Kabuli_Chr07	12308943	CC	TT	TT	INTERGENIC		
SNP_50457_A_12311315	NC_021166.1	Ca_Kabuli_Chr07	12311315	GG	AA	AA	INTERGENIC		
SNP_50458_A_12311317	NC_021166.1	Ca_Kabuli_Chr07	12311317	CC	AA	AA	INTERGENIC		
SNP_50459_A_12311492	NC_021166.1	Ca_Kabuli_Chr07	12311492	GG	AA	AA	INTERGENIC		
SNP_50460_A_12311493	NC_021166.1	Ca_Kabuli_Chr07	12311493	AA	TT	TT	INTERGENIC		
SNP_50461_A_12311533	NC_021166.1	Ca_Kabuli_Chr07	12311533	GG	AA	AA	INTERGENIC		
SNP_50462_A_12311549	NC_021166.1	Ca_Kabuli_Chr07	12311549	CC	TT	TT	INTERGENIC		
SNP_50463_A_12311557	NC_021166.1	Ca_Kabuli_Chr07	12311557	AA	TT	TT	INTERGENIC		
SNP_50464_A_12311810	NC_021166.1	Ca_Kabuli_Chr07	12311810	AA	CC	CC	INTERGENIC		
SNP_50465_A_12312030	NC_021166.1	Ca_Kabuli_Chr07	12312030	GG	AA	AA	INTERGENIC		
SNP_50466_A_12312085	NC_021166.1	Ca_Kabuli_Chr07	12312085	CC	TT	TT	INTERGENIC		
SNP_50467_A_12320740	NC_021166.1	Ca_Kabuli_Chr07	12320740	GG	AA	AA	INTERGENIC		
SNP_50468_A_12320849	NC_021166.1	Ca_Kabuli_Chr07	12320849	GG	TT	TT	INTERGENIC		
SNP_50469_A_12320884	NC_021166.1	Ca_Kabuli_Chr07	12320884	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50470_A_12321022	NC_021166.1	Ca_Kabuli_Chr07	12321022	TT	CC	CC	INTERGENIC		
SNP_50472_A_12324750	NC_021166.1	Ca_Kabuli_Chr07	12324750	GG	AA	AA	URR	101502287	RNA-binding protein Musashi homolog 2-like
SNP_50473_A_12324760	NC_021166.1	Ca_Kabuli_Chr07	12324760	TT	AA	AA	URR	101502287	RNA-binding protein Musashi homolog 2-like
SNP_50474_A_12328290	NC_021166.1	Ca_Kabuli_Chr07	12328290	GG	AA	AA	URR	101503251	uncharacterized LOC101503251
SNP_50475_A_12328563	NC_021166.1	Ca_Kabuli_Chr07	12328563	AA	GG	GG	URR	101503251	uncharacterized LOC101503251
SNP_50476_A_12328717	NC_021166.1	Ca_Kabuli_Chr07	12328717	GG	CC	CC	INTERGENIC		
SNP_50477_A_12328833	NC_021166.1	Ca_Kabuli_Chr07	12328833	CC	TT	TT	INTERGENIC		
SNP_50478_A_12328919	NC_021166.1	Ca_Kabuli_Chr07	12328919	AA	GG	GG	INTERGENIC		
SNP_50479_A_12328922	NC_021166.1	Ca_Kabuli_Chr07	12328922	TT	CC	CC	INTERGENIC		
SNP_50480_A_12328946	NC_021166.1	Ca_Kabuli_Chr07	12328946	TT	AA	AA	INTERGENIC		
SNP_50481_A_12328969	NC_021166.1	Ca_Kabuli_Chr07	12328969	CC	AA	AA	INTERGENIC		
SNP_50482_A_12328990	NC_021166.1	Ca_Kabuli_Chr07	12328990	AA	GG	GG	INTERGENIC		
SNP_50483_A_12329031	NC_021166.1	Ca_Kabuli_Chr07	12329031	AA	GG	GG	INTERGENIC		
SNP_50484_A_12329413	NC_021166.1	Ca_Kabuli_Chr07	12329413	AA	GG	GG	INTERGENIC		
SNP_50485_A_12331454	NC_021166.1	Ca_Kabuli_Chr07	12331454	AA	GG	GG	INTERGENIC		
SNP_50486_A_12331458	NC_021166.1	Ca_Kabuli_Chr07	12331458	AA	GG	GG	INTERGENIC		
SNP_50488_A_12335596	NC_021166.1	Ca_Kabuli_Chr07	12335596	TT	GG	GG	INTRON	101503567	zeaxanthin epoxidase, chloroplastic-like
SNP_50490_A_12343942	NC_021166.1	Ca_Kabuli_Chr07	12343942	GG	AA	AA	URR	101503893	uncharacterized LOC101503893
SNP_50491_A_12344560	NC_021166.1	Ca_Kabuli_Chr07	12344560	GG	AA	AA	URR	101503893	uncharacterized LOC101503893
SNP_50492_A_12345319	NC_021166.1	Ca_Kabuli_Chr07	12345319	AA	CC	CC	INTERGENIC		
SNP_50494_A_12347990	NC_021166.1	Ca_Kabuli_Chr07	12347990	CC	GG	GG	INTERGENIC		
SNP_50496_A_12348678	NC_021166.1	Ca_Kabuli_Chr07	12348678	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50497_A_12360301	NC_021166.1	Ca_Kabuli_Chr07	12360301	AA	TT	TT	INTERGENIC			
SNP_50498_A_12361345	NC_021166.1	Ca_Kabuli_Chr07	12361345	CC	AA	AA	DRR	101504213	heat shock factor protein HSF24-like	
SNP_50499_A_12361499	NC_021166.1	Ca_Kabuli_Chr07	12361499	TT	AA	AA	DRR	101504213	heat shock factor protein HSF24-like	
SNP_50501_A_12362812	NC_021166.1	Ca_Kabuli_Chr07	12362812	AA	TT	TT	URR	101504549	Unknown function	
SNP_50502_A_12364932	NC_021166.1	Ca_Kabuli_Chr07	12364932	TT	AA	AA	INTERGENIC			
SNP_50503_A_12364935	NC_021166.1	Ca_Kabuli_Chr07	12364935	TT	AA	AA	INTERGENIC			
SNP_50504_A_12364945	NC_021166.1	Ca_Kabuli_Chr07	12364945	AA	GG	GG	INTERGENIC			
SNP_50505_A_12365033	NC_021166.1	Ca_Kabuli_Chr07	12365033	TT	AA	AA	INTERGENIC			
SNP_50506_A_12365137	NC_021166.1	Ca_Kabuli_Chr07	12365137	CC	AA	AA	INTERGENIC			
SNP_50507_A_12366172	NC_021166.1	Ca_Kabuli_Chr07	12366172	CC	AA	AA	INTERGENIC			
SNP_50508_A_12366430	NC_021166.1	Ca_Kabuli_Chr07	12366430	AA	GG	GG	INTERGENIC			
SNP_50509_A_12366434	NC_021166.1	Ca_Kabuli_Chr07	12366434	GG	AA	AA	INTERGENIC			
SNP_50510_A_12368469	NC_021166.1	Ca_Kabuli_Chr07	12368469	TT	CC	CC	URR	101504213	heat shock factor protein HSF24-like	
SNP_50511_A_12368475	NC_021166.1	Ca_Kabuli_Chr07	12368475	TT	AA	AA	URR	101504213	heat shock factor protein HSF24-like	
SNP_50512_A_12368642	NC_021166.1	Ca_Kabuli_Chr07	12368642	GG	CC	CC	URR	101504213	heat shock factor protein HSF24-like	
SNP_50513_A_12368796	NC_021166.1	Ca_Kabuli_Chr07	12368796	GG	AA	AA	URR	101504213	heat shock factor protein HSF24-like	
SNP_50514_A_12369236	NC_021166.1	Ca_Kabuli_Chr07	12369236	GG	AA	AA	URR	101504213	heat shock factor protein HSF24-like	
SNP_50515_A_12381040	NC_021166.1	Ca_Kabuli_Chr07	12381040	TT	CC	CC	DRR	101497463	ethylene-responsive transcription factor ERF109-like	
SNP_50516_A_12381043	NC_021166.1	Ca_Kabuli_Chr07	12381043	AA	TT	TT	DRR	101497463	ethylene-responsive transcription factor ERF109-like	
SNP_50517_A_12400975	NC_021166.1	Ca_Kabuli_Chr07	12400975	GG	AA	AA	INTERGENIC			
SNP_50518_A_12402925	NC_021166.1	Ca_Kabuli_Chr07	12402925	CC	AA	AA	INTERGENIC			
SNP_50519_A_12410835	NC_021166.1	Ca_Kabuli_Chr07	12410835	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50520_A_12411231	NC_021166.1	Ca_Kabuli_Chr07	12411231	CC	AA	AA	INTERGENIC		
SNP_50521_A_12412046	NC_021166.1	Ca_Kabuli_Chr07	12412046	TT	CC	CC	INTERGENIC		
SNP_50522_A_12412047	NC_021166.1	Ca_Kabuli_Chr07	12412047	TT	AA	AA	INTERGENIC		
SNP_50523_A_12412063	NC_021166.1	Ca_Kabuli_Chr07	12412063	TT	CC	CC	INTERGENIC		
SNP_50524_A_12412280	NC_021166.1	Ca_Kabuli_Chr07	12412280	TT	CC	CC	INTERGENIC		
SNP_50525_A_12412289	NC_021166.1	Ca_Kabuli_Chr07	12412289	AA	GG	GG	INTERGENIC		
SNP_50526_A_12422404	NC_021166.1	Ca_Kabuli_Chr07	12422404	TT	CC	CC	URR	101505174	B3 domain-containing protein Os01g0234100-like
SNP_50528_A_12423564	NC_021166.1	Ca_Kabuli_Chr07	12423564	TT	AA	AA	URR	101505174	B3 domain-containing protein Os01g0234100-like
SNP_50529_A_12426727	NC_021166.1	Ca_Kabuli_Chr07	12426727	AA	TT	TT	INTERGENIC		
SNP_50530_A_12426732	NC_021166.1	Ca_Kabuli_Chr07	12426732	GG	AA	AA	INTERGENIC		
SNP_50531_A_12426736	NC_021166.1	Ca_Kabuli_Chr07	12426736	CC	TT	TT	INTERGENIC		
SNP_50532_A_12427373	NC_021166.1	Ca_Kabuli_Chr07	12427373	CC	TT	TT	INTERGENIC		
SNP_50533_A_12427659	NC_021166.1	Ca_Kabuli_Chr07	12427659	TT	GG	GG	INTERGENIC		
SNP_50534_A_12430211	NC_021166.1	Ca_Kabuli_Chr07	12430211	TT	CC	CC	INTRON	101505715	uncharacterized membrane protein At3g27390
SNP_50535_A_12431651	NC_021166.1	Ca_Kabuli_Chr07	12431651	CC	TT	TT	INTRON	101505715	uncharacterized membrane protein At3g27390
SNP_50536_A_12431657	NC_021166.1	Ca_Kabuli_Chr07	12431657	AA	CC	CC	INTRON	101505715	uncharacterized membrane protein At3g27390
SNP_50538_A_12432576	NC_021166.1	Ca_Kabuli_Chr07	12432576	AA	GG	GG	INTRON	101505715	uncharacterized membrane protein At3g27390
SNP_50539_A_12434523	NC_021166.1	Ca_Kabuli_Chr07	12434523	AA	TT	TT	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50540_A_12434548	NC_021166.1	Ca_Kabuli_Chr07	12434548	AA	CC	CC	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50541_A_12434582	NC_021166.1	Ca_Kabuli_Chr07	12434582	TT	CC	CC	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50542_A_12434610	NC_021166.1	Ca_Kabuli_Chr07	12434610	TT	AA	AA	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50543_A_12434619	NC_021166.1	Ca_Kabuli_Chr07	12434619	GG	AA	AA	URR	101505715	uncharacterized membrane protein At3g27390

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50544_A_12434725	NC_021166.1	Ca_Kabuli_Chr07	12434725	AA	GG	GG	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50545_A_12435065	NC_021166.1	Ca_Kabuli_Chr07	12435065	CC	AA	AA	URR	101505715	uncharacterized membrane protein At3g27390
SNP_50546_A_12438936	NC_021166.1	Ca_Kabuli_Chr07	12438936	TT	GG	GG	INTERGENIC		
SNP_50547_A_12439232	NC_021166.1	Ca_Kabuli_Chr07	12439232	GG	AA	AA	INTERGENIC		
SNP_50548_A_12439622	NC_021166.1	Ca_Kabuli_Chr07	12439622	TT	AA	AA	INTERGENIC		
SNP_50549_A_12441798	NC_021166.1	Ca_Kabuli_Chr07	12441798	TT	GG	GG	INTERGENIC		
SNP_50550_A_12442401	NC_021166.1	Ca_Kabuli_Chr07	12442401	CC	TT	TT	INTERGENIC		
SNP_50551_A_12442474	NC_021166.1	Ca_Kabuli_Chr07	12442474	AA	CC	CC	INTERGENIC		
SNP_50552_A_12443773	NC_021166.1	Ca_Kabuli_Chr07	12443773	GG	TT	TT	DRR	101506039	cyclin-dependent kinase inhibitor 7-like
SNP_50553_A_12444161	NC_021166.1	Ca_Kabuli_Chr07	12444161	CC	AA	AA	INTRON	101506039	cyclin-dependent kinase inhibitor 7-like
SNP_50554_A_12444234	NC_021166.1	Ca_Kabuli_Chr07	12444234	AA	TT	TT	INTRON	101506039	cyclin-dependent kinase inhibitor 7-like
SNP_50555_A_12446327	NC_021166.1	Ca_Kabuli_Chr07	12446327	GG	AA	AA	URR	101506039	cyclin-dependent kinase inhibitor 7-like
SNP_50556_A_12447050	NC_021166.1	Ca_Kabuli_Chr07	12447050	TT	CC	CC	URR	101506039	cyclin-dependent kinase inhibitor 7-like
SNP_50557_A_12449610	NC_021166.1	Ca_Kabuli_Chr07	12449610	TT	CC	CC	INTERGENIC		
SNP_50558_A_12449613	NC_021166.1	Ca_Kabuli_Chr07	12449613	TT	CC	CC	INTERGENIC		
SNP_50559_A_12453614	NC_021166.1	Ca_Kabuli_Chr07	12453614	AA	TT	TT	INTERGENIC		
SNP_50560_A_12458037	NC_021166.1	Ca_Kabuli_Chr07	12458037	CC	GG	GG	INTERGENIC		
SNP_50561_A_12459443	NC_021166.1	Ca_Kabuli_Chr07	12459443	GG	TT	TT	INTERGENIC		
SNP_50562_A_12459452	NC_021166.1	Ca_Kabuli_Chr07	12459452	AA	TT	TT	INTERGENIC		
SNP_50563_A_12459472	NC_021166.1	Ca_Kabuli_Chr07	12459472	GG	TT	TT	INTERGENIC		
SNP_50564_A_12464725	NC_021166.1	Ca_Kabuli_Chr07	12464725	GG	AA	AA	URR	101506355	uncharacterized LOC101506355
SNP_50565_A_12466255	NC_021166.1	Ca_Kabuli_Chr07	12466255	GG	AA	AA	URR	101506355	uncharacterized LOC101506355

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50566_A_12466258	NC_021166.1	Ca_Kabuli_Chr07	12466258	GG	AA	AA	URR	101506355	uncharacterized LOC101506355
SNP_50567_A_12467181	NC_021166.1	Ca_Kabuli_Chr07	12467181	TT	CC	CC	DRR	101506676	uncharacterized LOC101506676
SNP_50568_A_12468327	NC_021166.1	Ca_Kabuli_Chr07	12468327	TT	CC	CC	INTERGENIC		
SNP_50569_A_12471327	NC_021166.1	Ca_Kabuli_Chr07	12471327	TT	CC	CC	INTRON	101506676	uncharacterized LOC101506676
SNP_50570_A_12473382	NC_021166.1	Ca_Kabuli_Chr07	12473382	AA	GG	GG	INTRON	101506676	uncharacterized LOC101506676
SNP_50571_A_12473642	NC_021166.1	Ca_Kabuli_Chr07	12473642	TT	CC	CC	INTRON	101506676	uncharacterized LOC101506676
SNP_50572_A_12473647	NC_021166.1	Ca_Kabuli_Chr07	12473647	TT	CC	CC	INTRON	101506676	uncharacterized LOC101506676
SNP_50573_A_12473903	NC_021166.1	Ca_Kabuli_Chr07	12473903	AA	GG	GG	INTRON	101506676	uncharacterized LOC101506676
SNP_50574_A_12473904	NC_021166.1	Ca_Kabuli_Chr07	12473904	TT	AA	AA	INTRON	101506676	uncharacterized LOC101506676
SNP_50575_A_12474203	NC_021166.1	Ca_Kabuli_Chr07	12474203	AA	GG	GG	INTRON	101506676	uncharacterized LOC101506676
SNP_50576_A_12474556	NC_021166.1	Ca_Kabuli_Chr07	12474556	GG	AA	AA	INTRON	101506676	uncharacterized LOC101506676
SNP_50577_A_12475031	NC_021166.1	Ca_Kabuli_Chr07	12475031	AA	GG	GG	INTRON	101506676	uncharacterized LOC101506676
SNP_50578_A_12475113	NC_021166.1	Ca_Kabuli_Chr07	12475113	GG	AA	AA	INTRON	101506676	uncharacterized LOC101506676
SNP_50579_A_12476756	NC_021166.1	Ca_Kabuli_Chr07	12476756	GG	CC	CC	SYNONYMOUS_CODING	101506676	uncharacterized LOC101506676
SNP_50582_A_12483270	NC_021166.1	Ca_Kabuli_Chr07	12483270	TT	CC	CC	URR	101498116	pentatricopeptide repeat-containing protein At3g16610-like
SNP_50583_A_12483290	NC_021166.1	Ca_Kabuli_Chr07	12483290	AA	CC	CC	URR	101498116	pentatricopeptide repeat-containing protein At3g16610-like
SNP_50584_A_12483399	NC_021166.1	Ca_Kabuli_Chr07	12483399	GG	TT	TT	URR	101498116	pentatricopeptide repeat-containing protein At3g16610-like
SNP_50585_A_12483449	NC_021166.1	Ca_Kabuli_Chr07	12483449	CC	TT	TT	URR	101498116	pentatricopeptide repeat-containing protein At3g16610-like
SNP_50586_A_12484325	NC_021166.1	Ca_Kabuli_Chr07	12484325	CC	GG	GG	URR	101498116	pentatricopeptide repeat-containing protein At3g16610-like
SNP_50587_A_12485778	NC_021166.1	Ca_Kabuli_Chr07	12485778	GG	AA	AA	INTERGENIC		
SNP_50588_A_12486174	NC_021166.1	Ca_Kabuli_Chr07	12486174	GG	AA	AA	INTERGENIC		
SNP_50589_A_12486342	NC_021166.1	Ca_Kabuli_Chr07	12486342	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50590_A_12487565	NC_021166.1	Ca_Kabuli_Chr07	12487565	CC	AA	AA	INTERGENIC		
SNP_50591_A_12487921	NC_021166.1	Ca_Kabuli_Chr07	12487921	CC	TT	TT	INTERGENIC		
SNP_50593_A_12492232	NC_021166.1	Ca_Kabuli_Chr07	12492232	CC	TT	TT	INTRON	101507230	uncharacterized LOC101507230
SNP_50594_A_12492633	NC_021166.1	Ca_Kabuli_Chr07	12492633	GG	AA	AA	SPLICE_SITE_REGION	101507230	uncharacterized LOC101507230
SNP_50595_A_12492672	NC_021166.1	Ca_Kabuli_Chr07	12492672	AA	GG	GG	NON_SYNONYMOUS_CODING	101507230	uncharacterized LOC101507230
SNP_50596_A_12492706	NC_021166.1	Ca_Kabuli_Chr07	12492706	GG	CC	CC	NON_SYNONYMOUS_CODING	101507230	uncharacterized LOC101507230
SNP_50598_A_12496416	NC_021166.1	Ca_Kabuli_Chr07	12496416	AA	CC	CC	DRR	101498452	Unknown function
SNP_50599_A_12496527	NC_021166.1	Ca_Kabuli_Chr07	12496527	AA	GG	GG	INTERGENIC		
SNP_50600_A_12496588	NC_021166.1	Ca_Kabuli_Chr07	12496588	TT	AA	AA	INTERGENIC		
SNP_50601_A_12496670	NC_021166.1	Ca_Kabuli_Chr07	12496670	TT	AA	AA	INTERGENIC		
SNP_50602_A_12497446	NC_021166.1	Ca_Kabuli_Chr07	12497446	TT	GG	GG	URR	101498452	Unknown function
SNP_50603_A_12497858	NC_021166.1	Ca_Kabuli_Chr07	12497858	CC	TT	TT	URR	101498452	Unknown function
SNP_50604_A_12497880	NC_021166.1	Ca_Kabuli_Chr07	12497880	GG	TT	TT	URR	101498452	Unknown function
SNP_50605_A_12497902	NC_021166.1	Ca_Kabuli_Chr07	12497902	AA	GG	GG	URR	101498452	Unknown function
SNP_50606_A_12497927	NC_021166.1	Ca_Kabuli_Chr07	12497927	AA	GG	GG	URR	101498452	Unknown function
SNP_50607_A_12497938	NC_021166.1	Ca_Kabuli_Chr07	12497938	TT	CC	CC	URR	101498452	Unknown function
SNP_50608_A_12502434	NC_021166.1	Ca_Kabuli_Chr07	12502434	TT	AA	AA	INTERGENIC		
SNP_50609_A_12502436	NC_021166.1	Ca_Kabuli_Chr07	12502436	TT	AA	AA	INTERGENIC		
SNP_50610_A_12502437	NC_021166.1	Ca_Kabuli_Chr07	12502437	AA	GG	GG	INTERGENIC		
SNP_50611_A_12503269	NC_021166.1	Ca_Kabuli_Chr07	12503269	TT	AA	AA	INTERGENIC		
SNP_50612_A_12503270	NC_021166.1	Ca_Kabuli_Chr07	12503270	GG	TT	TT	INTERGENIC		
SNP_50614_A_12509102	NC_021166.1	Ca_Kabuli_Chr07	12509102	GG	AA	AA	URR	101498794	uncharacterized LOC101498794

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50615_A_12509421	NC_021166.1	Ca_Kabuli_Chr07	12509421	AA	GG	GG	INTERGENIC			
SNP_50616_A_12509468	NC_021166.1	Ca_Kabuli_Chr07	12509468	AA	GG	GG	INTERGENIC			
SNP_50617_A_12509510	NC_021166.1	Ca_Kabuli_Chr07	12509510	GG	AA	AA	INTERGENIC			
SNP_50618_A_12509561	NC_021166.1	Ca_Kabuli_Chr07	12509561	AA	CC	CC	INTERGENIC			
SNP_50619_A_12510431	NC_021166.1	Ca_Kabuli_Chr07	12510431	CC	TT	TT	INTERGENIC			
SNP_50620_A_12510475	NC_021166.1	Ca_Kabuli_Chr07	12510475	GG	AA	AA	INTERGENIC			
SNP_50621_A_12512402	NC_021166.1	Ca_Kabuli_Chr07	12512402	GG	AA	AA	INTERGENIC			
SNP_50622_A_12512428	NC_021166.1	Ca_Kabuli_Chr07	12512428	CC	TT	TT	INTERGENIC			
SNP_50623_A_12513407	NC_021166.1	Ca_Kabuli_Chr07	12513407	TT	GG	GG	INTERGENIC			
SNP_50624_A_12517228	NC_021166.1	Ca_Kabuli_Chr07	12517228	GG	TT	TT	INTERGENIC			
SNP_50625_A_12517238	NC_021166.1	Ca_Kabuli_Chr07	12517238	GG	AA	AA	INTERGENIC			
SNP_50626_A_12517254	NC_021166.1	Ca_Kabuli_Chr07	12517254	AA	TT	TT	INTERGENIC			
SNP_50627_A_12520813	NC_021166.1	Ca_Kabuli_Chr07	12520813	TT	CC	CC	URR	101499115	Unknown function	
SNP_50629_A_12521008	NC_021166.1	Ca_Kabuli_Chr07	12521008	CC	AA	AA	URR	101499115	Unknown function	
SNP_50630_A_12521198	NC_021166.1	Ca_Kabuli_Chr07	12521198	GG	TT	TT	URR	101499115	Unknown function	
SNP_50631_A_12521410	NC_021166.1	Ca_Kabuli_Chr07	12521410	GG	AA	AA	URR	101499115	Unknown function	
SNP_50632_A_12521415	NC_021166.1	Ca_Kabuli_Chr07	12521415	GG	TT	TT	URR	101499115	Unknown function	
SNP_50633_A_12523056	NC_021166.1	Ca_Kabuli_Chr07	12523056	CC	TT	TT	INTERGENIC			
SNP_50634_A_12523350	NC_021166.1	Ca_Kabuli_Chr07	12523350	TT	CC	CC	INTERGENIC			
SNP_50636_A_12524112	NC_021166.1	Ca_Kabuli_Chr07	12524112	CC	TT	TT	DRR	101499434	Unknown function	
SNP_50637_A_12524149	NC_021166.1	Ca_Kabuli_Chr07	12524149	CC	TT	TT	DRR	101499434	Unknown function	
SNP_50638_A_12524371	NC_021166.1	Ca_Kabuli_Chr07	12524371	TT	CC	CC	DRR	101499434	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50639_A_12527519	NC_021166.1	Ca_Kabuli_Chr07	12527519	CC	TT	TT	INTRON	101499434	Unknown function
SNP_50640_A_12532238	NC_021166.1	Ca_Kabuli_Chr07	12532238	AA	TT	TT	INTRON	101499434	Unknown function
SNP_50641_A_12535045	NC_021166.1	Ca_Kabuli_Chr07	12535045	GG	AA	AA	INTRON	101499434	Unknown function
SNP_50642_A_12539968	NC_021166.1	Ca_Kabuli_Chr07	12539968	TT	CC	CC	INTRON	101499434	Unknown function
SNP_50644_A_12551692	NC_021166.1	Ca_Kabuli_Chr07	12551692	AA	GG	GG	URR	101507546	Unknown function
SNP_50645_A_12551701	NC_021166.1	Ca_Kabuli_Chr07	12551701	TT	GG	GG	URR	101507546	Unknown function
SNP_50646_A_12557418	NC_021166.1	Ca_Kabuli_Chr07	12557418	GG	AA	AA	INTRON	101499434	Unknown function
SNP_50647_A_12560127	NC_021166.1	Ca_Kabuli_Chr07	12560127	TT	AA	AA	INTRON	101499434	Unknown function
SNP_50648_A_12561434	NC_021166.1	Ca_Kabuli_Chr07	12561434	GG	AA	AA	URR	101499434	Unknown function
SNP_50649_A_12564521	NC_021166.1	Ca_Kabuli_Chr07	12564521	TT	AA	AA	INTERGENIC		
SNP_50650_A_12564802	NC_021166.1	Ca_Kabuli_Chr07	12564802	CC	TT	TT	INTERGENIC		
SNP_50651_A_12564822	NC_021166.1	Ca_Kabuli_Chr07	12564822	AA	GG	GG	INTERGENIC		
SNP_50652_A_12564827	NC_021166.1	Ca_Kabuli_Chr07	12564827	CC	TT	TT	INTERGENIC		
SNP_50653_A_12564849	NC_021166.1	Ca_Kabuli_Chr07	12564849	AA	TT	TT	INTERGENIC		
SNP_50654_A_12564855	NC_021166.1	Ca_Kabuli_Chr07	12564855	AA	TT	TT	INTERGENIC		
SNP_50655_A_12565785	NC_021166.1	Ca_Kabuli_Chr07	12565785	TT	GG	GG	INTERGENIC		
SNP_50656_A_12565830	NC_021166.1	Ca_Kabuli_Chr07	12565830	TT	CC	CC	INTERGENIC		
SNP_50657_A_12565979	NC_021166.1	Ca_Kabuli_Chr07	12565979	CC	TT	TT	INTERGENIC		
SNP_50658_A_12566008	NC_021166.1	Ca_Kabuli_Chr07	12566008	AA	TT	TT	INTERGENIC		
SNP_50659_A_12567091	NC_021166.1	Ca_Kabuli_Chr07	12567091	TT	CC	CC	INTERGENIC		
SNP_50660_A_12567116	NC_021166.1	Ca_Kabuli_Chr07	12567116	CC	TT	TT	INTERGENIC		
SNP_50661_A_12567125	NC_021166.1	Ca_Kabuli_Chr07	12567125	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50662_A_12567447	NC_021166.1	Ca_Kabuli_Chr07	12567447	GG	TT	TT	INTERGENIC			
SNP_50663_A_12567512	NC_021166.1	Ca_Kabuli_Chr07	12567512	GG	AA	AA	INTERGENIC			
SNP_50664_A_12567542	NC_021166.1	Ca_Kabuli_Chr07	12567542	CC	AA	AA	INTERGENIC			
SNP_50665_A_12568821	NC_021166.1	Ca_Kabuli_Chr07	12568821	TT	CC	CC	INTERGENIC			
SNP_50666_A_12570686	NC_021166.1	Ca_Kabuli_Chr07	12570686	CC	AA	AA	INTERGENIC			
SNP_50667_A_12570699	NC_021166.1	Ca_Kabuli_Chr07	12570699	AA	CC	CC	INTERGENIC			
SNP_50668_A_12571529	NC_021166.1	Ca_Kabuli_Chr07	12571529	TT	GG	GG	INTERGENIC			
SNP_50669_A_12571903	NC_021166.1	Ca_Kabuli_Chr07	12571903	TT	CC	CC	INTERGENIC			
SNP_50670_A_12572323	NC_021166.1	Ca_Kabuli_Chr07	12572323	CC	TT	TT	INTERGENIC			
SNP_50671_A_12572640	NC_021166.1	Ca_Kabuli_Chr07	12572640	AA	CC	CC	INTERGENIC			
SNP_50672_A_12572687	NC_021166.1	Ca_Kabuli_Chr07	12572687	TT	CC	CC	INTERGENIC			
SNP_50673_A_12572854	NC_021166.1	Ca_Kabuli_Chr07	12572854	TT	CC	CC	INTERGENIC			
SNP_50674_A_12573654	NC_021166.1	Ca_Kabuli_Chr07	12573654	GG	CC	CC	INTERGENIC			
SNP_50675_A_12575345	NC_021166.1	Ca_Kabuli_Chr07	12575345	CC	TT	TT	INTERGENIC			
SNP_50676_A_12578035	NC_021166.1	Ca_Kabuli_Chr07	12578035	CC	TT	TT	INTERGENIC			
SNP_50677_A_12581108	NC_021166.1	Ca_Kabuli_Chr07	12581108	TT	AA	AA	INTERGENIC			
SNP_50678_A_12581154	NC_021166.1	Ca_Kabuli_Chr07	12581154	AA	GG	GG	INTERGENIC			
SNP_50681_A_12589378	NC_021166.1	Ca_Kabuli_Chr07	12589378	TT	CC	CC	NON_SYNONYMOUS_CODING	101507859		uncharacterized LOC101507859
SNP_50682_A_12591668	NC_021166.1	Ca_Kabuli_Chr07	12591668	CC	TT	TT	URR	101507859		uncharacterized LOC101507859
SNP_50683_A_12595186	NC_021166.1	Ca_Kabuli_Chr07	12595186	GG	AA	AA	INTERGENIC			
SNP_50684_A_12595218	NC_021166.1	Ca_Kabuli_Chr07	12595218	GG	AA	AA	INTERGENIC			
SNP_50685_A_12595918	NC_021166.1	Ca_Kabuli_Chr07	12595918	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50686_A_12598540	NC_021166.1	Ca_Kabuli_Chr07	12598540	CC	GG	GG	INTERGENIC		
SNP_50687_A_12598557	NC_021166.1	Ca_Kabuli_Chr07	12598557	TT	GG	GG	INTERGENIC		
SNP_50688_A_12598574	NC_021166.1	Ca_Kabuli_Chr07	12598574	CC	TT	TT	INTERGENIC		
SNP_50689_A_12598577	NC_021166.1	Ca_Kabuli_Chr07	12598577	TT	CC	CC	INTERGENIC		
SNP_50690_A_12598588	NC_021166.1	Ca_Kabuli_Chr07	12598588	GG	AA	AA	INTERGENIC		
SNP_50691_A_12598631	NC_021166.1	Ca_Kabuli_Chr07	12598631	AA	GG	GG	INTERGENIC		
SNP_50692_A_12601275	NC_021166.1	Ca_Kabuli_Chr07	12601275	CC	TT	TT	INTERGENIC		
SNP_50693_A_12602089	NC_021166.1	Ca_Kabuli_Chr07	12602089	GG	CC	CC	INTERGENIC		
SNP_50694_A_12606821	NC_021166.1	Ca_Kabuli_Chr07	12606821	AA	TT	TT	INTRON	101508173	uncharacterized LOC101508173
SNP_50695_A_12607675	NC_021166.1	Ca_Kabuli_Chr07	12607675	GG	AA	AA	INTERGENIC		
SNP_50696_A_12607756	NC_021166.1	Ca_Kabuli_Chr07	12607756	GG	AA	AA	INTERGENIC		
SNP_50697_A_12607997	NC_021166.1	Ca_Kabuli_Chr07	12607997	AA	TT	TT	INTERGENIC		
SNP_50699_A_12608688	NC_021166.1	Ca_Kabuli_Chr07	12608688	CC	TT	TT	URR	101508173	uncharacterized LOC101508173
SNP_50701_A_12609038	NC_021166.1	Ca_Kabuli_Chr07	12609038	TT	AA	AA	URR	101508173	uncharacterized LOC101508173
SNP_50702_A_12609041	NC_021166.1	Ca_Kabuli_Chr07	12609041	GG	TT	TT	URR	101508173	uncharacterized LOC101508173
SNP_50703_A_12609996	NC_021166.1	Ca_Kabuli_Chr07	12609996	GG	AA	AA	URR	101508173	uncharacterized LOC101508173
SNP_50704_A_12610027	NC_021166.1	Ca_Kabuli_Chr07	12610027	GG	CC	CC	URR	101508173	uncharacterized LOC101508173
SNP_50705_A_12613487	NC_021166.1	Ca_Kabuli_Chr07	12613487	TT	CC	CC	INTERGENIC		
SNP_50706_A_12629132	NC_021166.1	Ca_Kabuli_Chr07	12629132	CC	TT	TT	INTRON	101508500	uncharacterized LOC101508500
SNP_50707_A_12629142	NC_021166.1	Ca_Kabuli_Chr07	12629142	AA	CC	CC	INTRON	101508500	uncharacterized LOC101508500
SNP_50708_A_12633643	NC_021166.1	Ca_Kabuli_Chr07	12633643	AA	TT	TT	INTRON	101508500	uncharacterized LOC101508500
SNP_50709_A_12634664	NC_021166.1	Ca_Kabuli_Chr07	12634664	TT	CC	CC	INTRON	101508500	uncharacterized LOC101508500

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50710_A_12636442	NC_021166.1	Ca_Kabuli_Chr07	12636442	GG	AA	AA	AA	INTRON	101508500	uncharacterized LOC101508500
SNP_50711_A_12637313	NC_021166.1	Ca_Kabuli_Chr07	12637313	AA	TT	TT	TT	INTRON	101508500	uncharacterized LOC101508500
SNP_50712_A_12640300	NC_021166.1	Ca_Kabuli_Chr07	12640300	TT	GG	GG	GG	INTRON	101508500	uncharacterized LOC101508500
SNP_50713_A_12643246	NC_021166.1	Ca_Kabuli_Chr07	12643246	TT	GG	GG	GG	NON_SYNONYMOUS_CODING	101499741	uncharacterized LOC101499741
SNP_50714_A_12643921	NC_021166.1	Ca_Kabuli_Chr07	12643921	GG	AA	AA	AA	URR	101499741	uncharacterized LOC101499741
SNP_50715_A_12643932	NC_021166.1	Ca_Kabuli_Chr07	12643932	CC	AA	AA	AA	URR	101499741	uncharacterized LOC101499741
SNP_50716_A_12644885	NC_021166.1	Ca_Kabuli_Chr07	12644885	GG	CC	CC	CC	URR	101499741	uncharacterized LOC101499741
SNP_50717_A_12645294	NC_021166.1	Ca_Kabuli_Chr07	12645294	AA	TT	TT	TT	URR	101499741	uncharacterized LOC101499741
SNP_50718_A_12645307	NC_021166.1	Ca_Kabuli_Chr07	12645307	GG	CC	CC	CC	URR	101499741	uncharacterized LOC101499741
SNP_50719_A_12645311	NC_021166.1	Ca_Kabuli_Chr07	12645311	GG	TT	TT	TT	URR	101499741	uncharacterized LOC101499741
SNP_50721_A_12645604	NC_021166.1	Ca_Kabuli_Chr07	12645604	CC	TT	TT	TT	INTERGENIC		
SNP_50722_A_12650161	NC_021166.1	Ca_Kabuli_Chr07	12650161	CC	AA	AA	AA	URR	101509025	very-long-chain 3-oxoacyl-CoA reductase
SNP_50723_A_12650193	NC_021166.1	Ca_Kabuli_Chr07	12650193	CC	TT	TT	TT	URR	101509025	very-long-chain 3-oxoacyl-CoA reductase
SNP_50724_A_12650201	NC_021166.1	Ca_Kabuli_Chr07	12650201	GG	TT	TT	TT	URR	101509025	very-long-chain 3-oxoacyl-CoA reductase
SNP_50725_A_12650215	NC_021166.1	Ca_Kabuli_Chr07	12650215	GG	TT	TT	TT	URR	101509025	very-long-chain 3-oxoacyl-CoA reductase
SNP_50726_A_12653503	NC_021166.1	Ca_Kabuli_Chr07	12653503	AA	GG	GG	GG	INTERGENIC		
SNP_50727_A_12653664	NC_021166.1	Ca_Kabuli_Chr07	12653664	GG	AA	AA	AA	INTERGENIC		
SNP_50729_A_12653999	NC_021166.1	Ca_Kabuli_Chr07	12653999	GG	CC	CC	CC	INTERGENIC		
SNP_50730_A_12656705	NC_021166.1	Ca_Kabuli_Chr07	12656705	TT	GG	GG	GG	INTERGENIC		
SNP_50731_A_12656710	NC_021166.1	Ca_Kabuli_Chr07	12656710	TT	CC	CC	CC	INTERGENIC		
SNP_50732_A_12656719	NC_021166.1	Ca_Kabuli_Chr07	12656719	GG	AA	AA	AA	INTERGENIC		
SNP_50733_A_12656726	NC_021166.1	Ca_Kabuli_Chr07	12656726	AA	CC	CC	CC	INTERGENIC		

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SNP_50734_A_12657389	NC_021166.1	Ca_Kabuli_Chr07	12657389	AA	CC	CC	INTERGENIC		
SNP_50735_A_12661467	NC_021166.1	Ca_Kabuli_Chr07	12661467	GG	AA	AA	INTERGENIC		
SNP_50736_A_12661650	NC_021166.1	Ca_Kabuli_Chr07	12661650	CC	TT	TT	INTERGENIC		
SNP_50737_A_12663105	NC_021166.1	Ca_Kabuli_Chr07	12663105	GG	TT	TT	DRR	101509346	CDPK-related protein kinase
SNP_50739_A_12663542	NC_021166.1	Ca_Kabuli_Chr07	12663542	CC	TT	TT	DRR	101509346	CDPK-related protein kinase
SNP_50740_A_12665283	NC_021166.1	Ca_Kabuli_Chr07	12665283	GG	AA	AA	INTRON	101509346	CDPK-related protein kinase
SNP_50741_A_12668407	NC_021166.1	Ca_Kabuli_Chr07	12668407	GG	AA	AA	URR	101509346	CDPK-related protein kinase
SNP_50742_A_12668417	NC_021166.1	Ca_Kabuli_Chr07	12668417	GG	AA	AA	URR	101509346	CDPK-related protein kinase
SNP_50743_A_12676323	NC_021166.1	Ca_Kabuli_Chr07	12676323	CC	GG	GG	INTRON	101509667	phosphoglycerate mutase-like protein 4
SNP_50744_A_12677133	NC_021166.1	Ca_Kabuli_Chr07	12677133	CC	AA	AA	INTRON	101509667	phosphoglycerate mutase-like protein 4
SNP_50745_A_12677237	NC_021166.1	Ca_Kabuli_Chr07	12677237	TT	AA	AA	INTRON	101509667	phosphoglycerate mutase-like protein 4
SNP_50746_A_12677865	NC_021166.1	Ca_Kabuli_Chr07	12677865	CC	GG	GG	INTRON	101509667	phosphoglycerate mutase-like protein 4
SNP_50747_A_12679417	NC_021166.1	Ca_Kabuli_Chr07	12679417	AA	TT	TT	URR	101509667	phosphoglycerate mutase-like protein 4
SNP_50748_A_12679440	NC_021166.1	Ca_Kabuli_Chr07	12679440	TT	AA	AA	URR	101509667	phosphoglycerate mutase-like protein 4
SNP_50749_A_12679615	NC_021166.1	Ca_Kabuli_Chr07	12679615	GG	AA	AA	URR	101509667	phosphoglycerate mutase-like protein 4
SNP_50750_A_12680201	NC_021166.1	Ca_Kabuli_Chr07	12680201	CC	TT	TT	URR	101509667	phosphoglycerate mutase-like protein 4
SNP_50751_A_12680211	NC_021166.1	Ca_Kabuli_Chr07	12680211	CC	TT	TT	URR	101509667	phosphoglycerate mutase-like protein 4
SNP_50752_A_12685651	NC_021166.1	Ca_Kabuli_Chr07	12685651	CC	TT	TT	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50753_A_12685880	NC_021166.1	Ca_Kabuli_Chr07	12685880	AA	GG	GG	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50754_A_12685963	NC_021166.1	Ca_Kabuli_Chr07	12685963	TT	CC	CC	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50755_A_12686141	NC_021166.1	Ca_Kabuli_Chr07	12686141	GG	AA	AA	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50756_A_12686611	NC_021166.1	Ca_Kabuli_Chr07	12686611	CC	TT	TT	INTRON	101509990	phosphoglycerate mutase-like protein 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50757_A_12687284	NC_021166.1	Ca_Kabuli_Chr07	12687284	TT	CC	CC	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50758_A_12687303	NC_021166.1	Ca_Kabuli_Chr07	12687303	TT	AA	AA	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50759_A_12687359	NC_021166.1	Ca_Kabuli_Chr07	12687359	GG	CC	CC	INTRON	101509990	phosphoglycerate mutase-like protein 4
SNP_50761_A_12692983	NC_021166.1	Ca_Kabuli_Chr07	12692983	CC	AA	AA	DRR	101510309	peptidyl-prolyl cis-trans isomerase CYP40-like
SNP_50762_A_12693877	NC_021166.1	Ca_Kabuli_Chr07	12693877	AA	TT	TT	URR	101500050	Unknown function
SNP_50763_A_12696683	NC_021166.1	Ca_Kabuli_Chr07	12696683	GG	AA	AA	INTERGENIC		
SNP_50764_A_12697398	NC_021166.1	Ca_Kabuli_Chr07	12697398	CC	GG	GG	INTERGENIC		
SNP_50765_A_12704222	NC_021166.1	Ca_Kabuli_Chr07	12704222	GG	TT	TT	DRR	101510645	DNA-directed RNA polymerases II, IV and V subunit 11
SNP_50766_A_12709885	NC_021166.1	Ca_Kabuli_Chr07	12709885	GG	AA	AA	INTERGENIC		
SNP_50767_A_12712890	NC_021166.1	Ca_Kabuli_Chr07	12712890	TT	CC	CC	URR	101511175	uncharacterized LOC101511175
SNP_50769_A_12715125	NC_021166.1	Ca_Kabuli_Chr07	12715125	GG	AA	AA	INTERGENIC		
SNP_50771_A_12727374	NC_021166.1	Ca_Kabuli_Chr07	12727374	TT	CC	CC	URR	101500386	LOB domain-containing protein 15-like
SNP_50772_A_12727446	NC_021166.1	Ca_Kabuli_Chr07	12727446	AA	TT	TT	URR	101500386	LOB domain-containing protein 15-like
SNP_50773_A_12727508	NC_021166.1	Ca_Kabuli_Chr07	12727508	AA	GG	GG	URR	101500386	LOB domain-containing protein 15-like
SNP_50774_A_12727532	NC_021166.1	Ca_Kabuli_Chr07	12727532	TT	CC	CC	URR	101500386	LOB domain-containing protein 15-like
SNP_50775_A_12729938	NC_021166.1	Ca_Kabuli_Chr07	12729938	TT	GG	GG	INTERGENIC		
SNP_50776_A_12729939	NC_021166.1	Ca_Kabuli_Chr07	12729939	CC	TT	TT	INTERGENIC		
SNP_50777_A_12729972	NC_021166.1	Ca_Kabuli_Chr07	12729972	GG	CC	CC	INTERGENIC		
SNP_50778_A_12729984	NC_021166.1	Ca_Kabuli_Chr07	12729984	TT	GG	GG	INTERGENIC		
SNP_50779_A_12730022	NC_021166.1	Ca_Kabuli_Chr07	12730022	CC	TT	TT	INTERGENIC		
SNP_50780_A_12730141	NC_021166.1	Ca_Kabuli_Chr07	12730141	CC	AA	AA	INTERGENIC		
SNP_50782_A_12733852	NC_021166.1	Ca_Kabuli_Chr07	12733852	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50783_A_12733855	NC_021166.1	Ca_Kabuli_Chr07	12733855	GG	AA	AA	INTERGENIC		
SNP_50784_A_12733944	NC_021166.1	Ca_Kabuli_Chr07	12733944	CC	TT	TT	INTERGENIC		
SNP_50785_A_12734166	NC_021166.1	Ca_Kabuli_Chr07	12734166	GG	CC	CC	INTERGENIC		
SNP_50786_A_12738315	NC_021166.1	Ca_Kabuli_Chr07	12738315	CC	GG	GG	URR	101500696	Unknown function
SNP_50787_A_12738326	NC_021166.1	Ca_Kabuli_Chr07	12738326	AA	CC	CC	URR	101500696	Unknown function
SNP_50788_A_12742867	NC_021166.1	Ca_Kabuli_Chr07	12742867	GG	CC	CC	URR	101511817	uncharacterized LOC101511817
SNP_50789_A_12742907	NC_021166.1	Ca_Kabuli_Chr07	12742907	GG	CC	CC	URR	101511817	uncharacterized LOC101511817
SNP_50790_A_12744203	NC_021166.1	Ca_Kabuli_Chr07	12744203	CC	GG	GG	URR	101511817	uncharacterized LOC101511817
SNP_50791_A_12744216	NC_021166.1	Ca_Kabuli_Chr07	12744216	TT	AA	AA	URR	101511817	uncharacterized LOC101511817
SNP_50792_A_12744285	NC_021166.1	Ca_Kabuli_Chr07	12744285	CC	TT	TT	URR	101511817	uncharacterized LOC101511817
SNP_50794_A_12745212	NC_021166.1	Ca_Kabuli_Chr07	12745212	TT	CC	CC	DRR	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50795_A_12747035	NC_021166.1	Ca_Kabuli_Chr07	12747035	TT	CC	CC	INTRON	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50796_A_12747048	NC_021166.1	Ca_Kabuli_Chr07	12747048	CC	TT	TT	INTRON	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50797_A_12747851	NC_021166.1	Ca_Kabuli_Chr07	12747851	TT	AA	AA	SYNONYMOUS_CODING	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50798_A_12748803	NC_021166.1	Ca_Kabuli_Chr07	12748803	AA	TT	TT	INTRON	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50799_A_12748815	NC_021166.1	Ca_Kabuli_Chr07	12748815	TT	GG	GG	INTRON	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50800_A_12752256	NC_021166.1	Ca_Kabuli_Chr07	12752256	GG	AA	AA	URR	101512129	serine/threonine-protein kinase SRK2I-like
SNP_50801_A_12753128	NC_021166.1	Ca_Kabuli_Chr07	12753128	GG	AA	AA	INTERGENIC		
SNP_50802_A_12762316	NC_021166.1	Ca_Kabuli_Chr07	12762316	GG	CC	CC	INTERGENIC		
SNP_50804_A_12763038	NC_021166.1	Ca_Kabuli_Chr07	12763038	GG	AA	AA	DRR	101512457	uroporphyrinogen-III C-methyltransferase
SNP_50805_A_12766266	NC_021166.1	Ca_Kabuli_Chr07	12766266	AA	GG	GG	INTERGENIC		
SNP_50806_A_12768801	NC_021166.1	Ca_Kabuli_Chr07	12768801	AA	GG	GG	DRR	101512995	probable disease resistance protein At5g68900

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50807_A_12768810	NC_021166.1	Ca_Kabuli_Chr07	12768810	CC	TT	TT	DRR	101512995	probable disease resistance protein At5g66900
SNP_50808_A_12768818	NC_021166.1	Ca_Kabuli_Chr07	12768818	GG	AA	AA	DRR	101512995	probable disease resistance protein At5g66900
SNP_50809_A_12773402	NC_021166.1	Ca_Kabuli_Chr07	12773402	AA	GG	GG	INTRON	101512995	probable disease resistance protein At5g66900
SNP_50811_A_12773794	NC_021166.1	Ca_Kabuli_Chr07	12773794	GG	TT	TT	NON_SYNONYMOUS_CODING	101512995	probable disease resistance protein At5g66900
SNP_50812_A_12775202	NC_021166.1	Ca_Kabuli_Chr07	12775202	GG	AA	AA	URR	101512995	probable disease resistance protein At5g66900
SNP_50813_A_12776018	NC_021166.1	Ca_Kabuli_Chr07	12776018	TT	AA	AA	URR	101512995	probable disease resistance protein At5g66900
SNP_50814_A_12776307	NC_021166.1	Ca_Kabuli_Chr07	12776307	TT	AA	AA	URR	101512995	probable disease resistance protein At5g66900
SNP_50815_A_12776308	NC_021166.1	Ca_Kabuli_Chr07	12776308	AA	TT	TT	URR	101512995	probable disease resistance protein At5g66900
SNP_50816_A_12777411	NC_021166.1	Ca_Kabuli_Chr07	12777411	GG	TT	TT	INTERGENIC		
SNP_50817_A_12777438	NC_021166.1	Ca_Kabuli_Chr07	12777438	TT	GG	GG	INTERGENIC		
SNP_50818_A_12778850	NC_021166.1	Ca_Kabuli_Chr07	12778850	TT	CC	CC	INTERGENIC		
SNP_50819_A_12784869	NC_021166.1	Ca_Kabuli_Chr07	12784869	TT	CC	CC	INTERGENIC		
SNP_50820_A_12785229	NC_021166.1	Ca_Kabuli_Chr07	12785229	AA	GG	GG	INTERGENIC		
SNP_50821_A_12789086	NC_021166.1	Ca_Kabuli_Chr07	12789086	TT	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_50822_A_12795564	NC_021166.1	Ca_Kabuli_Chr07	12795564	CC	TT	TT	URR	101513322	L-ascorbate oxidase homolog
SNP_50823_A_12795577	NC_021166.1	Ca_Kabuli_Chr07	12795577	GG	TT	TT	URR	101513322	L-ascorbate oxidase homolog
SNP_50824_A_12795659	NC_021166.1	Ca_Kabuli_Chr07	12795659	GG	TT	TT	URR	101513322	L-ascorbate oxidase homolog
SNP_50825_A_12795887	NC_021166.1	Ca_Kabuli_Chr07	12795887	GG	TT	TT	URR	101513322	L-ascorbate oxidase homolog
SNP_50826_A_12799789	NC_021166.1	Ca_Kabuli_Chr07	12799789	GG	AA	AA	INTERGENIC		
SNP_50827_A_12803855	NC_021166.1	Ca_Kabuli_Chr07	12803855	CC	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog
SNP_50828_A_12803877	NC_021166.1	Ca_Kabuli_Chr07	12803877	AA	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog
SNP_50829_A_12803879	NC_021166.1	Ca_Kabuli_Chr07	12803879	AA	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50830_A_12803880	NC_021166.1	Ca_Kabuli_Chr07	12803880	AA	TT	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog
SNP_50831_A_12803881	NC_021166.1	Ca_Kabuli_Chr07	12803881	AA	TT	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog
SNP_50832_A_12803918	NC_021166.1	Ca_Kabuli_Chr07	12803918	CC	TT	TT	TT	INTRON	101514400	L-ascorbate oxidase homolog
SNP_50833_A_12806516	NC_021166.1	Ca_Kabuli_Chr07	12806516	AA	TT	TT	TT	INTERGENIC		
SNP_50834_A_12808741	NC_021166.1	Ca_Kabuli_Chr07	12808741	AA	TT	TT	TT	URR	101514400	L-ascorbate oxidase homolog
SNP_50835_A_12808756	NC_021166.1	Ca_Kabuli_Chr07	12808756	AA	GG	GG	GG	URR	101514400	L-ascorbate oxidase homolog
SNP_50836_A_12808760	NC_021166.1	Ca_Kabuli_Chr07	12808760	AA	TT	TT	TT	URR	101514400	L-ascorbate oxidase homolog
SNP_50838_A_12809730	NC_021166.1	Ca_Kabuli_Chr07	12809730	CC	TT	TT	TT	INTERGENIC		
SNP_50839_A_12809734	NC_021166.1	Ca_Kabuli_Chr07	12809734	AA	GG	GG	GG	INTERGENIC		
SNP_50840_A_12809769	NC_021166.1	Ca_Kabuli_Chr07	12809769	GG	TT	TT	TT	INTERGENIC		
SNP_50842_A_12810471	NC_021166.1	Ca_Kabuli_Chr07	12810471	AA	TT	TT	TT	INTERGENIC		
SNP_50844_A_12811028	NC_021166.1	Ca_Kabuli_Chr07	12811028	AA	CC	CC	CC	DRR	101514728	dof zinc finger protein DOF5.3-like
SNP_50845_A_12811382	NC_021166.1	Ca_Kabuli_Chr07	12811382	GG	TT	TT	TT	DRR	101514728	dof zinc finger protein DOF5.3-like
SNP_50846_A_12811474	NC_021166.1	Ca_Kabuli_Chr07	12811474	TT	AA	AA	AA	DRR	101514728	dof zinc finger protein DOF5.3-like
SNP_50847_A_12811674	NC_021166.1	Ca_Kabuli_Chr07	12811674	GG	AA	AA	AA	INTERGENIC		
SNP_50848_A_12813220	NC_021166.1	Ca_Kabuli_Chr07	12813220	CC	GG	GG	GG	URR	101514728	dof zinc finger protein DOF5.3-like
SNP_50849_A_12813850	NC_021166.1	Ca_Kabuli_Chr07	12813850	TT	AA	AA	AA	URR	101514728	dof zinc finger protein DOF5.3-like
SNP_50850_A_12813858	NC_021166.1	Ca_Kabuli_Chr07	12813858	AA	CC	CC	CC	URR	101514728	dof zinc finger protein DOF5.3-like
SNP_50851_A_12813933	NC_021166.1	Ca_Kabuli_Chr07	12813933	AA	TT	TT	TT	URR	101514728	dof zinc finger protein DOF5.3-like
SNP_50852_A_12815615	NC_021166.1	Ca_Kabuli_Chr07	12815615	CC	GG	GG	GG	INTERGENIC		
SNP_50853_A_12819555	NC_021166.1	Ca_Kabuli_Chr07	12819555	GG	TT	TT	TT	INTERGENIC		
SNP_50854_A_12819848	NC_021166.1	Ca_Kabuli_Chr07	12819848	CC	TT	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_50855_A_12835857	NC_021166.1	Ca_Kabuli_Chr07	12835857	AA	GG	GG	INTERGENIC			
SNP_50856_A_12836120	NC_021166.1	Ca_Kabuli_Chr07	12836120	TT	CC	CC	INTERGENIC			
SNP_50857_A_12836263	NC_021166.1	Ca_Kabuli_Chr07	12836263	TT	CC	CC	INTERGENIC			
SNP_50858_A_12839448	NC_021166.1	Ca_Kabuli_Chr07	12839448	AA	GG	GG	INTERGENIC			
SNP_50859_A_12839458	NC_021166.1	Ca_Kabuli_Chr07	12839458	TT	CC	CC	INTERGENIC			
SNP_50860_A_12840210	NC_021166.1	Ca_Kabuli_Chr07	12840210	AA	TT	TT	INTERGENIC			
SNP_50861_A_12840645	NC_021166.1	Ca_Kabuli_Chr07	12840645	GG	AA	AA	INTERGENIC			
SNP_50862_A_12840646	NC_021166.1	Ca_Kabuli_Chr07	12840646	TT	CC	CC	INTERGENIC			
SNP_50863_A_12841327	NC_021166.1	Ca_Kabuli_Chr07	12841327	AA	TT	TT	INTERGENIC			
SNP_50864_A_12844519	NC_021166.1	Ca_Kabuli_Chr07	12844519	GG	AA	AA	INTERGENIC			
SNP_50866_A_12846447	NC_021166.1	Ca_Kabuli_Chr07	12846447	GG	AA	AA	INTERGENIC			
SNP_50867_A_12846461	NC_021166.1	Ca_Kabuli_Chr07	12846461	CC	TT	TT	INTERGENIC			
SNP_50868_A_12846467	NC_021166.1	Ca_Kabuli_Chr07	12846467	AA	GG	GG	INTERGENIC			
SNP_50869_A_12847961	NC_021166.1	Ca_Kabuli_Chr07	12847961	TT	CC	CC	URR	101488360		methylesterase 1-like
SNP_50870_A_12848345	NC_021166.1	Ca_Kabuli_Chr07	12848345	AA	TT	TT	URR	101488360		methylesterase 1-like
SNP_50872_A_12848441	NC_021166.1	Ca_Kabuli_Chr07	12848441	CC	GG	GG	URR	101488360		methylesterase 1-like
SNP_50874_A_12851577	NC_021166.1	Ca_Kabuli_Chr07	12851577	AA	GG	GG	INTERGENIC			
SNP_50876_A_12856542	NC_021166.1	Ca_Kabuli_Chr07	12856542	CC	AA	AA	INTERGENIC			
SNP_50877_A_12856797	NC_021166.1	Ca_Kabuli_Chr07	12856797	AA	GG	GG	INTERGENIC			
SNP_50878_A_12858374	NC_021166.1	Ca_Kabuli_Chr07	12858374	CC	TT	TT	INTERGENIC			
SNP_50879_A_12858375	NC_021166.1	Ca_Kabuli_Chr07	12858375	GG	AA	AA	INTERGENIC			
SNP_50880_A_12858432	NC_021166.1	Ca_Kabuli_Chr07	12858432	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50882_A_12859023	NC_021166.1	Ca_Kabuli_Chr07	12859023	AA	TT	TT	DRR	101488684	dof zinc finger protein DOF3.4-like
SNP_50883_A_12859068	NC_021166.1	Ca_Kabuli_Chr07	12859068	CC	AA	AA	DRR	101488684	dof zinc finger protein DOF3.4-like
SNP_50884_A_12864675	NC_021166.1	Ca_Kabuli_Chr07	12864675	TT	CC	CC	INTERGENIC		
SNP_50885_A_12864715	NC_021166.1	Ca_Kabuli_Chr07	12864715	AA	GG	GG	INTERGENIC		
SNP_50886_A_12864752	NC_021166.1	Ca_Kabuli_Chr07	12864752	CC	TT	TT	INTERGENIC		
SNP_50887_A_12864760	NC_021166.1	Ca_Kabuli_Chr07	12864760	TT	CC	CC	INTERGENIC		
SNP_50888_A_12865255	NC_021166.1	Ca_Kabuli_Chr07	12865255	AA	GG	GG	INTERGENIC		
SNP_50890_A_12867167	NC_021166.1	Ca_Kabuli_Chr07	12867167	GG	AA	AA	INTERGENIC		
SNP_50891_A_12867498	NC_021166.1	Ca_Kabuli_Chr07	12867498	GG	AA	AA	INTERGENIC		
SNP_50892_A_12869000	NC_021166.1	Ca_Kabuli_Chr07	12869000	TT	CC	CC	INTERGENIC		
SNP_50893_A_12869054	NC_021166.1	Ca_Kabuli_Chr07	12869054	AA	GG	GG	INTERGENIC		
SNP_50894_A_12869566	NC_021166.1	Ca_Kabuli_Chr07	12869566	TT	AA	AA	INTERGENIC		
SNP_50895_A_12871069	NC_021166.1	Ca_Kabuli_Chr07	12871069	TT	CC	CC	INTERGENIC		
SNP_50896_A_12875822	NC_021166.1	Ca_Kabuli_Chr07	12875822	CC	GG	GG	URR	101489022	dof zinc finger protein DOF3.4-like
SNP_50897_A_12878648	NC_021166.1	Ca_Kabuli_Chr07	12878648	TT	CC	CC	INTERGENIC		
SNP_50898_A_12878654	NC_021166.1	Ca_Kabuli_Chr07	12878654	CC	AA	AA	INTERGENIC		
SNP_50899_A_12879699	NC_021166.1	Ca_Kabuli_Chr07	12879699	AA	GG	GG	INTERGENIC		
SNP_50900_A_12884049	NC_021166.1	Ca_Kabuli_Chr07	12884049	GG	AA	AA	INTERGENIC		
SNP_50901_A_12884063	NC_021166.1	Ca_Kabuli_Chr07	12884063	GG	AA	AA	INTERGENIC		
SNP_50902_A_12884100	NC_021166.1	Ca_Kabuli_Chr07	12884100	AA	CC	CC	INTERGENIC		
SNP_50903_A_12884133	NC_021166.1	Ca_Kabuli_Chr07	12884133	AA	GG	GG	INTERGENIC		
SNP_50904_A_12885844	NC_021166.1	Ca_Kabuli_Chr07	12885844	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50905_A_12886487	NC_021166.1	Ca_Kabuli_Chr07	12886487	TT	AA	AA	INTERGENIC		
SNP_50906_A_12886505	NC_021166.1	Ca_Kabuli_Chr07	12886505	CC	AA	AA	INTERGENIC		
SNP_50907_A_12886508	NC_021166.1	Ca_Kabuli_Chr07	12886508	GG	TT	TT	INTERGENIC		
SNP_50908_A_12886537	NC_021166.1	Ca_Kabuli_Chr07	12886537	CC	AA	AA	INTERGENIC		
SNP_50909_A_12889134	NC_021166.1	Ca_Kabuli_Chr07	12889134	CC	TT	TT	INTERGENIC		
SNP_50910_A_12890426	NC_021166.1	Ca_Kabuli_Chr07	12890426	AA	GG	GG	INTERGENIC		
SNP_50911_A_12891433	NC_021166.1	Ca_Kabuli_Chr07	12891433	CC	TT	TT	INTERGENIC		
SNP_50912_A_12893312	NC_021166.1	Ca_Kabuli_Chr07	12893312	CC	TT	TT	INTERGENIC		
SNP_50914_A_12898709	NC_021166.1	Ca_Kabuli_Chr07	12898709	TT	AA	AA	INTERGENIC		
SNP_50915_A_12901458	NC_021166.1	Ca_Kabuli_Chr07	12901458	TT	CC	CC	INTERGENIC		
SNP_50916_A_12901605	NC_021166.1	Ca_Kabuli_Chr07	12901605	CC	TT	TT	INTERGENIC		
SNP_50917_A_12902104	NC_021166.1	Ca_Kabuli_Chr07	12902104	TT	CC	CC	SYNONYMOUS_CODING	101490215	prolyl endopeptidase-like
SNP_50918_A_12902604	NC_021166.1	Ca_Kabuli_Chr07	12902604	CC	AA	AA	INTRON	101490215	prolyl endopeptidase-like
SNP_50919_A_12904738	NC_021166.1	Ca_Kabuli_Chr07	12904738	TT	AA	AA	URR	101490215	prolyl endopeptidase-like
SNP_50920_A_12904753	NC_021166.1	Ca_Kabuli_Chr07	12904753	TT	AA	AA	URR	101490215	prolyl endopeptidase-like
SNP_50921_A_12904778	NC_021166.1	Ca_Kabuli_Chr07	12904778	TT	CC	CC	URR	101490215	prolyl endopeptidase-like
SNP_50922_A_12905216	NC_021166.1	Ca_Kabuli_Chr07	12905216	AA	GG	GG	URR	101490215	prolyl endopeptidase-like
SNP_50923_A_12905965	NC_021166.1	Ca_Kabuli_Chr07	12905965	GG	AA	AA	INTERGENIC		
SNP_50924_A_12906217	NC_021166.1	Ca_Kabuli_Chr07	12906217	AA	GG	GG	INTERGENIC		
SNP_50925_A_12906244	NC_021166.1	Ca_Kabuli_Chr07	12906244	AA	CC	CC	INTERGENIC		
SNP_50926_A_12906246	NC_021166.1	Ca_Kabuli_Chr07	12906246	GG	AA	AA	INTERGENIC		
SNP_50927_A_12906515	NC_021166.1	Ca_Kabuli_Chr07	12906515	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50928_A_12906519	NC_021166.1	Ca_Kabuli_Chr07	12906519	CC	TT	TT	INTERGENIC		
SNP_50929_A_12906534	NC_021166.1	Ca_Kabuli_Chr07	12906534	GG	AA	AA	INTERGENIC		
SNP_50930_A_12906760	NC_021166.1	Ca_Kabuli_Chr07	12906760	CC	AA	AA	INTERGENIC		
SNP_50931_A_12907009	NC_021166.1	Ca_Kabuli_Chr07	12907009	AA	GG	GG	INTERGENIC		
SNP_50932_A_12907371	NC_021166.1	Ca_Kabuli_Chr07	12907371	GG	AA	AA	INTERGENIC		
SNP_50933_A_12907391	NC_021166.1	Ca_Kabuli_Chr07	12907391	GG	AA	AA	INTERGENIC		
SNP_50934_A_12907425	NC_021166.1	Ca_Kabuli_Chr07	12907425	CC	TT	TT	INTERGENIC		
SNP_50935_A_12907593	NC_021166.1	Ca_Kabuli_Chr07	12907593	TT	CC	CC	INTERGENIC		
SNP_50936_A_12907608	NC_021166.1	Ca_Kabuli_Chr07	12907608	CC	TT	TT	INTERGENIC		
SNP_50937_A_12907613	NC_021166.1	Ca_Kabuli_Chr07	12907613	CC	AA	AA	INTERGENIC		
SNP_50938_A_12907717	NC_021166.1	Ca_Kabuli_Chr07	12907717	AA	GG	GG	INTERGENIC		
SNP_50939_A_12907751	NC_021166.1	Ca_Kabuli_Chr07	12907751	CC	TT	TT	INTERGENIC		
SNP_50940_A_12907814	NC_021166.1	Ca_Kabuli_Chr07	12907814	CC	TT	TT	INTERGENIC		
SNP_50941_A_12907845	NC_021166.1	Ca_Kabuli_Chr07	12907845	GG	TT	TT	INTERGENIC		
SNP_50942_A_12907847	NC_021166.1	Ca_Kabuli_Chr07	12907847	TT	AA	AA	INTERGENIC		
SNP_50943_A_12907871	NC_021166.1	Ca_Kabuli_Chr07	12907871	TT	AA	AA	INTERGENIC		
SNP_50944_A_12907889	NC_021166.1	Ca_Kabuli_Chr07	12907889	AA	GG	GG	INTERGENIC		
SNP_50945_A_12909569	NC_021166.1	Ca_Kabuli_Chr07	12909569	CC	TT	TT	DRR	101490535	uncharacterized LOC101490535
SNP_50946_A_12909693	NC_021166.1	Ca_Kabuli_Chr07	12909693	AA	CC	CC	DRR	101490535	uncharacterized LOC101490535
SNP_50947_A_12909911	NC_021166.1	Ca_Kabuli_Chr07	12909911	TT	AA	AA	DRR	101490535	uncharacterized LOC101490535
SNP_50948_A_12917031	NC_021166.1	Ca_Kabuli_Chr07	12917031	TT	CC	CC	INTERGENIC		
SNP_50949_A_12918261	NC_021166.1	Ca_Kabuli_Chr07	12918261	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50950_A_12919226	NC_021166.1	Ca_Kabuli_Chr07	12919226	CC	TT	TT	INTERGENIC		
SNP_50951_A_12920650	NC_021166.1	Ca_Kabuli_Chr07	12920650	TT	CC	CC	INTERGENIC		
SNP_50952_A_12921068	NC_021166.1	Ca_Kabuli_Chr07	12921068	AA	GG	GG	INTERGENIC		
SNP_50954_A_12921473	NC_021166.1	Ca_Kabuli_Chr07	12921473	AA	TT	TT	INTERGENIC		
SNP_50955_A_12923745	NC_021166.1	Ca_Kabuli_Chr07	12923745	GG	AA	AA	INTERGENIC		
SNP_50957_A_12924179	NC_021166.1	Ca_Kabuli_Chr07	12924179	TT	AA	AA	INTERGENIC		
SNP_50958_A_12924182	NC_021166.1	Ca_Kabuli_Chr07	12924182	CC	TT	TT	INTERGENIC		
SNP_50959_A_12924377	NC_021166.1	Ca_Kabuli_Chr07	12924377	AA	TT	TT	INTERGENIC		
SNP_50960_A_12924697	NC_021166.1	Ca_Kabuli_Chr07	12924697	TT	CC	CC	INTERGENIC		
SNP_50961_A_12928636	NC_021166.1	Ca_Kabuli_Chr07	12928636	CC	AA	AA	DRR	101491490	uncharacterized LOC101491490
SNP_50962_A_12928640	NC_021166.1	Ca_Kabuli_Chr07	12928640	AA	GG	GG	DRR	101491490	uncharacterized LOC101491490
SNP_50963_A_12928753	NC_021166.1	Ca_Kabuli_Chr07	12928753	AA	GG	GG	DRR	101491490	uncharacterized LOC101491490
SNP_50964_A_12928760	NC_021166.1	Ca_Kabuli_Chr07	12928760	GG	AA	AA	DRR	101491490	uncharacterized LOC101491490
SNP_50965_A_12928799	NC_021166.1	Ca_Kabuli_Chr07	12928799	AA	GG	GG	DRR	101491490	uncharacterized LOC101491490
SNP_50966_A_12928809	NC_021166.1	Ca_Kabuli_Chr07	12928809	AA	GG	GG	DRR	101491490	uncharacterized LOC101491490
SNP_50967_A_12928832	NC_021166.1	Ca_Kabuli_Chr07	12928832	CC	TT	TT	DRR	101491490	uncharacterized LOC101491490
SNP_50968_A_12928835	NC_021166.1	Ca_Kabuli_Chr07	12928835	AA	GG	GG	DRR	101491490	uncharacterized LOC101491490
SNP_50969_A_12931711	NC_021166.1	Ca_Kabuli_Chr07	12931711	TT	CC	CC	STOP_LOST	id165854	Unknown function
SNP_50970_A_12933133	NC_021166.1	Ca_Kabuli_Chr07	12933133	TT	CC	CC	URR	101491490	uncharacterized LOC101491490
SNP_50971_A_12933139	NC_021166.1	Ca_Kabuli_Chr07	12933139	CC	TT	TT	URR	101491490	uncharacterized LOC101491490
SNP_50972_A_12933243	NC_021166.1	Ca_Kabuli_Chr07	12933243	GG	AA	AA	URR	101491490	uncharacterized LOC101491490
SNP_50973_A_12933491	NC_021166.1	Ca_Kabuli_Chr07	12933491	GG	AA	AA	URR	101491490	uncharacterized LOC101491490

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50974_A_12933497	NC_021166.1	Ca_Kabuli_Chr07	12933497	TT	CC	CC	URR	101491490	uncharacterized LOC101491490
SNP_50975_A_12934815	NC_021166.1	Ca_Kabuli_Chr07	12934815	TT	GG	GG	DRR	101491715	uncharacterized LOC101491715
SNP_50976_A_12934817	NC_021166.1	Ca_Kabuli_Chr07	12934817	CC	TT	TT	DRR	101491715	uncharacterized LOC101491715
SNP_50977_A_12934991	NC_021166.1	Ca_Kabuli_Chr07	12934991	TT	CC	CC	DRR	101491715	uncharacterized LOC101491715
SNP_50978_A_12935013	NC_021166.1	Ca_Kabuli_Chr07	12935013	GG	AA	AA	DRR	101491715	uncharacterized LOC101491715
SNP_50979_A_12935103	NC_021166.1	Ca_Kabuli_Chr07	12935103	CC	TT	TT	DRR	101491715	uncharacterized LOC101491715
SNP_50980_A_12940993	NC_021166.1	Ca_Kabuli_Chr07	12940993	CC	TT	TT	URR	101491715	uncharacterized LOC101491715
SNP_50981_A_12941359	NC_021166.1	Ca_Kabuli_Chr07	12941359	AA	GG	GG	URR	101491715	uncharacterized LOC101491715
SNP_50982_A_12945328	NC_021166.1	Ca_Kabuli_Chr07	12945328	CC	AA	AA	INTERGENIC		
SNP_50983_A_12947973	NC_021166.1	Ca_Kabuli_Chr07	12947973	AA	TT	TT	INTRON	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50984_A_12948467	NC_021166.1	Ca_Kabuli_Chr07	12948467	CC	TT	TT	INTRON	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50985_A_12953816	NC_021166.1	Ca_Kabuli_Chr07	12953816	AA	GG	GG	URR	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50986_A_12953835	NC_021166.1	Ca_Kabuli_Chr07	12953835	AA	CC	CC	URR	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50987_A_12953894	NC_021166.1	Ca_Kabuli_Chr07	12953894	TT	AA	AA	URR	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50988_A_12953926	NC_021166.1	Ca_Kabuli_Chr07	12953926	AA	GG	GG	URR	101492032	extra-large guanine nucleotide-binding protein 1-like
SNP_50989_A_12954022	NC_021166.1	Ca_Kabuli_Chr07	12954022	TT	CC	CC	INTERGENIC		
SNP_50990_A_12960892	NC_021166.1	Ca_Kabuli_Chr07	12960892	CC	TT	TT	INTRON	101492923	uncharacterized LOC101492923
SNP_50991_A_12976817	NC_021166.1	Ca_Kabuli_Chr07	12976817	AA	GG	GG	INTRON	101492923	uncharacterized LOC101492923
SNP_50992_A_12978811	NC_021166.1	Ca_Kabuli_Chr07	12978811	AA	CC	CC	INTRON	101492923	uncharacterized LOC101492923
SNP_50993_A_13018898	NC_021166.1	Ca_Kabuli_Chr07	13018898	CC	TT	TT	INTRON	101492923	uncharacterized LOC101492923
SNP_50994_A_13028339	NC_021166.1	Ca_Kabuli_Chr07	13028339	TT	CC	CC	DRR	101493255	uncharacterized LOC101493255
SNP_50995_A_13028905	NC_021166.1	Ca_Kabuli_Chr07	13028905	CC	TT	TT	DRR	101493255	uncharacterized LOC101493255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_50996_A_13029858	NC_021166.1	Ca_Kabuli_Chr07	13029858	GG	TT	TT	URR	101492923	uncharacterized LOC101492923
SNP_51000_A_13033971	NC_021166.1	Ca_Kabuli_Chr07	13033971	AA	GG	GG	INTERGENIC		
SNP_51001_A_13034022	NC_021166.1	Ca_Kabuli_Chr07	13034022	GG	AA	AA	INTERGENIC		
SNP_51002_A_13034133	NC_021166.1	Ca_Kabuli_Chr07	13034133	GG	TT	TT	INTERGENIC		
SNP_51003_A_13036786	NC_021166.1	Ca_Kabuli_Chr07	13036786	CC	AA	AA	INTERGENIC		
SNP_51004_A_13036823	NC_021166.1	Ca_Kabuli_Chr07	13036823	GG	AA	AA	INTERGENIC		
SNP_51006_A_13037743	NC_021166.1	Ca_Kabuli_Chr07	13037743	TT	CC	CC	INTERGENIC		
SNP_51007_A_13039965	NC_021166.1	Ca_Kabuli_Chr07	13039965	TT	GG	GG	INTERGENIC		
SNP_51008_A_13039969	NC_021166.1	Ca_Kabuli_Chr07	13039969	AA	GG	GG	INTERGENIC		
SNP_51009_A_13040669	NC_021166.1	Ca_Kabuli_Chr07	13040669	CC	TT	TT	INTERGENIC		
SNP_51010_A_13040945	NC_021166.1	Ca_Kabuli_Chr07	13040945	TT	CC	CC	INTERGENIC		
SNP_51011_A_13046532	NC_021166.1	Ca_Kabuli_Chr07	13046532	GG	AA	AA	INTRON	101493575	wall-associated receptor kinase-like 14
SNP_51012_A_13050042	NC_021166.1	Ca_Kabuli_Chr07	13050042	TT	CC	CC	URR	101493575	wall-associated receptor kinase-like 14
SNP_51013_A_13050182	NC_021166.1	Ca_Kabuli_Chr07	13050182	CC	AA	AA	URR	101493575	wall-associated receptor kinase-like 14
SNP_51014_A_13051062	NC_021166.1	Ca_Kabuli_Chr07	13051062	TT	CC	CC	INTERGENIC		
SNP_51015_A_13055350	NC_021166.1	Ca_Kabuli_Chr07	13055350	AA	GG	GG	INTERGENIC		
SNP_51016_A_13056472	NC_021166.1	Ca_Kabuli_Chr07	13056472	CC	TT	TT	DRR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51017_A_13056480	NC_021166.1	Ca_Kabuli_Chr07	13056480	CC	TT	TT	DRR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51018_A_13056484	NC_021166.1	Ca_Kabuli_Chr07	13056484	TT	CC	CC	DRR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51019_A_13056510	NC_021166.1	Ca_Kabuli_Chr07	13056510	CC	TT	TT	DRR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51020_A_13060544	NC_021166.1	Ca_Kabuli_Chr07	13060544	GG	TT	TT	URR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51022_A_13061362	NC_021166.1	Ca_Kabuli_Chr07	13061362	CC	TT	TT	URR	101493893	BTB/POZ domain-containing protein At5g66560-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51023_A_13061376	NC_021166.1	Ca_Kabuli_Chr07	13061376	AA	CC	CC	URR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51024_A_13061593	NC_021166.1	Ca_Kabuli_Chr07	13061593	TT	CC	CC	URR	101493893	BTB/POZ domain-containing protein At5g66560-like
SNP_51025_A_13062687	NC_021166.1	Ca_Kabuli_Chr07	13062687	AA	GG	GG	INTERGENIC		
SNP_51026_A_13066275	NC_021166.1	Ca_Kabuli_Chr07	13066275	GG	AA	AA	INTERGENIC		
SNP_51027_A_13066324	NC_021166.1	Ca_Kabuli_Chr07	13066324	TT	GG	GG	INTERGENIC		
SNP_51029_A_13066818	NC_021166.1	Ca_Kabuli_Chr07	13066818	GG	AA	AA	INTERGENIC		
SNP_51030_A_13067036	NC_021166.1	Ca_Kabuli_Chr07	13067036	CC	TT	TT	INTERGENIC		
SNP_51031_A_13067089	NC_021166.1	Ca_Kabuli_Chr07	13067089	TT	AA	AA	INTERGENIC		
SNP_51032_A_13067097	NC_021166.1	Ca_Kabuli_Chr07	13067097	TT	CC	CC	INTERGENIC		
SNP_51033_A_13067940	NC_021166.1	Ca_Kabuli_Chr07	13067940	AA	GG	GG	INTERGENIC		
SNP_51034_A_13068287	NC_021166.1	Ca_Kabuli_Chr07	13068287	AA	TT	TT	INTERGENIC		
SNP_51035_A_13069306	NC_021166.1	Ca_Kabuli_Chr07	13069306	TT	GG	GG	DRR	101494218	cold-regulated 413 plasma membrane protein 2
SNP_51036_A_13070714	NC_021166.1	Ca_Kabuli_Chr07	13070714	AA	GG	GG	INTERGENIC		
SNP_51038_A_13071674	NC_021166.1	Ca_Kabuli_Chr07	13071674	TT	AA	AA	INTERGENIC		
SNP_51039_A_13075194	NC_021166.1	Ca_Kabuli_Chr07	13075194	GG	TT	TT	DRR	101501009	Unknown function
SNP_51040_A_13075211	NC_021166.1	Ca_Kabuli_Chr07	13075211	TT	AA	AA	DRR	101501009	Unknown function
SNP_51041_A_13089820	NC_021166.1	Ca_Kabuli_Chr07	13089820	AA	GG	GG	INTERGENIC		
SNP_51042_A_13096748	NC_021166.1	Ca_Kabuli_Chr07	13096748	TT	GG	GG	INTERGENIC		
SNP_51043_A_13102484	NC_021166.1	Ca_Kabuli_Chr07	13102484	CC	TT	TT	INTERGENIC		
SNP_51044_A_13104320	NC_021166.1	Ca_Kabuli_Chr07	13104320	TT	GG	GG	INTERGENIC		
SNP_51045_A_13104324	NC_021166.1	Ca_Kabuli_Chr07	13104324	GG	TT	TT	INTERGENIC		
SNP_51046_A_13106082	NC_021166.1	Ca_Kabuli_Chr07	13106082	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_51047_A_13106165	NC_021166.1	Ca_Kabuli_Chr07	13106165	AA	TT	TT	INTERGENIC			
SNP_51048_A_13116391	NC_021166.1	Ca_Kabuli_Chr07	13116391	AA	CC	CC	INTERGENIC			
SNP_51049_A_13131864	NC_021166.1	Ca_Kabuli_Chr07	13131864	TT	CC	CC	INTERGENIC			
SNP_51050_A_13140354	NC_021166.1	Ca_Kabuli_Chr07	13140354	CC	AA	AA	INTERGENIC			
SNP_51051_A_13140482	NC_021166.1	Ca_Kabuli_Chr07	13140482	CC	AA	AA	INTERGENIC			
SNP_51052_A_13141127	NC_021166.1	Ca_Kabuli_Chr07	13141127	AA	TT	TT	INTERGENIC			
SNP_51053_A_13141128	NC_021166.1	Ca_Kabuli_Chr07	13141128	TT	CC	CC	INTERGENIC			
SNP_51054_A_13141206	NC_021166.1	Ca_Kabuli_Chr07	13141206	CC	GG	GG	INTERGENIC			
SNP_51055_A_13141330	NC_021166.1	Ca_Kabuli_Chr07	13141330	GG	AA	AA	INTERGENIC			
SNP_51056_A_13155777	NC_021166.1	Ca_Kabuli_Chr07	13155777	AA	TT	TT	INTERGENIC			
SNP_51057_A_13157281	NC_021166.1	Ca_Kabuli_Chr07	13157281	TT	CC	CC	INTERGENIC			
SNP_51058_A_13159075	NC_021166.1	Ca_Kabuli_Chr07	13159075	TT	AA	AA	INTERGENIC			
SNP_51059_A_13159670	NC_021166.1	Ca_Kabuli_Chr07	13159670	TT	AA	AA	INTERGENIC			
SNP_51060_A_13159686	NC_021166.1	Ca_Kabuli_Chr07	13159686	AA	GG	GG	INTERGENIC			
SNP_51061_A_13159895	NC_021166.1	Ca_Kabuli_Chr07	13159895	TT	CC	CC	INTERGENIC			
SNP_51062_A_13160077	NC_021166.1	Ca_Kabuli_Chr07	13160077	GG	AA	AA	INTERGENIC			
SNP_51063_A_13169140	NC_021166.1	Ca_Kabuli_Chr07	13169140	CC	TT	TT	URR	101501955	uncharacterized LOC101501955	
SNP_51064_A_13170624	NC_021166.1	Ca_Kabuli_Chr07	13170624	CC	TT	TT	INTERGENIC			
SNP_51065_A_13170641	NC_021166.1	Ca_Kabuli_Chr07	13170641	AA	TT	TT	INTERGENIC			
SNP_51066_A_13171913	NC_021166.1	Ca_Kabuli_Chr07	13171913	GG	AA	AA	INTERGENIC			
SNP_51067_A_13172339	NC_021166.1	Ca_Kabuli_Chr07	13172339	AA	GG	GG	INTERGENIC			
SNP_51068_A_13172726	NC_021166.1	Ca_Kabuli_Chr07	13172726	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51069_A_13176492	NC_021166.1	Ca_Kabuli_Chr07	13176492	GG	AA	AA	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51070_A_13176536	NC_021166.1	Ca_Kabuli_Chr07	13176536	TT	CC	CC	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51071_A_13176542	NC_021166.1	Ca_Kabuli_Chr07	13176542	AA	GG	GG	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51072_A_13176739	NC_021166.1	Ca_Kabuli_Chr07	13176739	TT	CC	CC	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51073_A_13176747	NC_021166.1	Ca_Kabuli_Chr07	13176747	AA	GG	GG	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51074_A_13176772	NC_021166.1	Ca_Kabuli_Chr07	13176772	TT	AA	AA	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51075_A_13176789	NC_021166.1	Ca_Kabuli_Chr07	13176789	TT	GG	GG	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51076_A_13176811	NC_021166.1	Ca_Kabuli_Chr07	13176811	AA	GG	GG	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51077_A_13176828	NC_021166.1	Ca_Kabuli_Chr07	13176828	CC	TT	TT	URR	101502182	oxygen-evolving enhancer protein 1, chloroplastic
SNP_51079_A_13179668	NC_021166.1	Ca_Kabuli_Chr07	13179668	AA	TT	TT	INTERGENIC		
SNP_51080_A_13183976	NC_021166.1	Ca_Kabuli_Chr07	13183976	TT	AA	AA	INTERGENIC		
SNP_51081_A_13184277	NC_021166.1	Ca_Kabuli_Chr07	13184277	CC	AA	AA	INTERGENIC		
SNP_51082_A_13186735	NC_021166.1	Ca_Kabuli_Chr07	13186735	TT	AA	AA	INTERGENIC		
SNP_51083_A_13186738	NC_021166.1	Ca_Kabuli_Chr07	13186738	CC	TT	TT	INTERGENIC		
SNP_51084_A_13186739	NC_021166.1	Ca_Kabuli_Chr07	13186739	GG	AA	AA	INTERGENIC		
SNP_51085_A_13186757	NC_021166.1	Ca_Kabuli_Chr07	13186757	TT	CC	CC	INTERGENIC		
SNP_51086_A_13187029	NC_021166.1	Ca_Kabuli_Chr07	13187029	TT	CC	CC	INTERGENIC		
SNP_51087_A_13187499	NC_021166.1	Ca_Kabuli_Chr07	13187499	AA	TT	TT	INTERGENIC		
SNP_51088_A_13188112	NC_021166.1	Ca_Kabuli_Chr07	13188112	CC	TT	TT	DRR	101502801	uncharacterized LOC101502801
SNP_51090_A_13193011	NC_021166.1	Ca_Kabuli_Chr07	13193011	TT	CC	CC	URR	101503121	uncharacterized LOC101503121
SNP_51091_A_13193805	NC_021166.1	Ca_Kabuli_Chr07	13193805	TT	CC	CC	INTERGENIC		
SNP_51092_A_13193868	NC_021166.1	Ca_Kabuli_Chr07	13193868	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_51094_A_13193931	NC_021166.1	Ca_Kabuli_Chr07	13193931	GG	AA	AA	INTERGENIC			
SNP_51095_A_13195666	NC_021166.1	Ca_Kabuli_Chr07	13195666	TT	CC	CC	INTERGENIC			
SNP_51096_A_13195675	NC_021166.1	Ca_Kabuli_Chr07	13195675	GG	AA	AA	INTERGENIC			
SNP_51097_A_13196279	NC_021166.1	Ca_Kabuli_Chr07	13196279	GG	AA	AA	INTERGENIC			
SNP_51098_A_13196794	NC_021166.1	Ca_Kabuli_Chr07	13196794	AA	GG	GG	INTERGENIC			
SNP_51099_A_13201055	NC_021166.1	Ca_Kabuli_Chr07	13201055	TT	CC	CC	INTERGENIC			
SNP_51100_A_13204521	NC_021166.1	Ca_Kabuli_Chr07	13204521	AA	TT	TT	INTERGENIC			
SNP_51101_A_13204551	NC_021166.1	Ca_Kabuli_Chr07	13204551	GG	TT	TT	INTERGENIC			
SNP_51102_A_13205464	NC_021166.1	Ca_Kabuli_Chr07	13205464	GG	TT	TT	INTERGENIC			
SNP_51103_A_13205545	NC_021166.1	Ca_Kabuli_Chr07	13205545	TT	CC	CC	INTERGENIC			
SNP_51104_A_13205804	NC_021166.1	Ca_Kabuli_Chr07	13205804	TT	CC	CC	INTERGENIC			
SNP_51105_A_13206334	NC_021166.1	Ca_Kabuli_Chr07	13206334	TT	CC	CC	INTERGENIC			
SNP_51106_A_13207792	NC_021166.1	Ca_Kabuli_Chr07	13207792	CC	TT	TT	INTERGENIC			
SNP_51107_A_13208888	NC_021166.1	Ca_Kabuli_Chr07	13208888	AA	CC	CC	INTERGENIC			
SNP_51108_A_13208903	NC_021166.1	Ca_Kabuli_Chr07	13208903	GG	CC	CC	INTERGENIC			
SNP_51109_A_13208978	NC_021166.1	Ca_Kabuli_Chr07	13208978	TT	CC	CC	INTERGENIC			
SNP_51110_A_13209160	NC_021166.1	Ca_Kabuli_Chr07	13209160	TT	AA	AA	INTERGENIC			
SNP_51111_A_13211447	NC_021166.1	Ca_Kabuli_Chr07	13211447	TT	CC	CC	DRR	101503446	STS14 protein-like	
SNP_51112_A_13211466	NC_021166.1	Ca_Kabuli_Chr07	13211466	TT	CC	CC	DRR	101503446	STS14 protein-like	
SNP_51113_A_13212047	NC_021166.1	Ca_Kabuli_Chr07	13212047	GG	CC	CC	DRR	101503446	STS14 protein-like	
SNP_51114_A_13213358	NC_021166.1	Ca_Kabuli_Chr07	13213358	GG	TT	TT	URR	101503446	STS14 protein-like	
SNP_51115_A_13216539	NC_021166.1	Ca_Kabuli_Chr07	13216539	GG	AA	AA	DRR	101503784	uncharacterized LOC101503784	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51116_A_13222497	NC_021166.1	Ca_Kabuli_Chr07	13222497	GG	CC	CC	URR	101503784	uncharacterized LOC101503784
SNP_51117_A_13222695	NC_021166.1	Ca_Kabuli_Chr07	13222695	TT	CC	CC	URR	101503784	uncharacterized LOC101503784
SNP_51118_A_13222716	NC_021166.1	Ca_Kabuli_Chr07	13222716	GG	CC	CC	URR	101503784	uncharacterized LOC101503784
SNP_51119_A_13223199	NC_021166.1	Ca_Kabuli_Chr07	13223199	CC	TT	TT	URR	101503784	uncharacterized LOC101503784
SNP_51120_A_13223244	NC_021166.1	Ca_Kabuli_Chr07	13223244	TT	CC	CC	URR	101503784	uncharacterized LOC101503784
SNP_51121_A_13226081	NC_021166.1	Ca_Kabuli_Chr07	13226081	CC	AA	AA	INTERGENIC		
SNP_51122_A_13226107	NC_021166.1	Ca_Kabuli_Chr07	13226107	CC	TT	TT	INTERGENIC		
SNP_51123_A_13226118	NC_021166.1	Ca_Kabuli_Chr07	13226118	AA	CC	CC	INTERGENIC		
SNP_51124_A_13226188	NC_021166.1	Ca_Kabuli_Chr07	13226188	TT	CC	CC	INTERGENIC		
SNP_51125_A_13226267	NC_021166.1	Ca_Kabuli_Chr07	13226267	TT	CC	CC	INTERGENIC		
SNP_51126_A_13226271	NC_021166.1	Ca_Kabuli_Chr07	13226271	GG	AA	AA	INTERGENIC		
SNP_51127_A_13239499	NC_021166.1	Ca_Kabuli_Chr07	13239499	CC	TT	TT	INTRON	101497564	uncharacterized LOC101497564
SNP_51128_A_13248460	NC_021166.1	Ca_Kabuli_Chr07	13248460	TT	CC	CC	INTERGENIC		
SNP_51129_A_13248659	NC_021166.1	Ca_Kabuli_Chr07	13248659	GG	TT	TT	INTERGENIC		
SNP_51130_A_13248868	NC_021166.1	Ca_Kabuli_Chr07	13248868	GG	AA	AA	INTERGENIC		
SNP_51131_A_13250138	NC_021166.1	Ca_Kabuli_Chr07	13250138	TT	CC	CC	INTERGENIC		
SNP_51132_A_13255733	NC_021166.1	Ca_Kabuli_Chr07	13255733	AA	GG	GG	INTRON	101497897	histone-lysine N-methyltransferase SUV5-like
SNP_51133_A_13256072	NC_021166.1	Ca_Kabuli_Chr07	13256072	AA	TT	TT	INTRON	101497897	histone-lysine N-methyltransferase SUV5-like
SNP_51134_A_13258909	NC_021166.1	Ca_Kabuli_Chr07	13258909	CC	TT	TT	INTRON	101497897	histone-lysine N-methyltransferase SUV5-like
SNP_51135_A_13263188	NC_021166.1	Ca_Kabuli_Chr07	13263188	GG	TT	TT	INTERGENIC		
SNP_51136_A_13263264	NC_021166.1	Ca_Kabuli_Chr07	13263264	TT	GG	GG	INTERGENIC		
SNP_51137_A_13264910	NC_021166.1	Ca_Kabuli_Chr07	13264910	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51138_A_13266137	NC_021166.1	Ca_Kabuli_Chr07	13266137	TT	CC	CC	URR	101497897	histone-lysine N-methyltransferase SUV5-like
SNP_51139_A_13266261	NC_021166.1	Ca_Kabuli_Chr07	13266261	AA	GG	GG	URR	101497897	histone-lysine N-methyltransferase SUV5-like
SNP_51140_A_13283380	NC_021166.1	Ca_Kabuli_Chr07	13283380	GG	AA	AA	INTERGENIC		
SNP_51142_A_13283681	NC_021166.1	Ca_Kabuli_Chr07	13283681	AA	CC	CC	INTERGENIC		
SNP_51143_A_13283699	NC_021166.1	Ca_Kabuli_Chr07	13283699	TT	CC	CC	INTERGENIC		
SNP_51144_A_13284368	NC_021166.1	Ca_Kabuli_Chr07	13284368	CC	AA	AA	INTERGENIC		
SNP_51146_A_13295719	NC_021166.1	Ca_Kabuli_Chr07	13295719	GG	TT	TT	INTERGENIC		
SNP_51147_A_13299272	NC_021166.1	Ca_Kabuli_Chr07	13299272	TT	GG	GG	DRR	101504644	Unknown function
SNP_51148_A_13299310	NC_021166.1	Ca_Kabuli_Chr07	13299310	AA	TT	TT	DRR	101504644	Unknown function
SNP_51149_A_13299347	NC_021166.1	Ca_Kabuli_Chr07	13299347	CC	AA	AA	DRR	101504644	Unknown function
SNP_51150_A_13299433	NC_021166.1	Ca_Kabuli_Chr07	13299433	TT	GG	GG	NON_SYNONYMOUS_CODING	101504644	Unknown function
SNP_51151_A_13299449	NC_021166.1	Ca_Kabuli_Chr07	13299449	GG	AA	AA	NON_SYNONYMOUS_CODING	101504644	Unknown function
SNP_51152_A_13299616	NC_021166.1	Ca_Kabuli_Chr07	13299616	TT	CC	CC	NON_SYNONYMOUS_CODING	101504644	Unknown function
SNP_51153_A_13299970	NC_021166.1	Ca_Kabuli_Chr07	13299970	TT	CC	CC	URR	101504644	Unknown function
SNP_51154_A_13299979	NC_021166.1	Ca_Kabuli_Chr07	13299979	CC	TT	TT	URR	101504644	Unknown function
SNP_51156_A_13300050	NC_021166.1	Ca_Kabuli_Chr07	13300050	AA	GG	GG	URR	101504644	Unknown function
SNP_51157_A_13300533	NC_021166.1	Ca_Kabuli_Chr07	13300533	GG	AA	AA	URR	101504644	Unknown function
SNP_51158_A_13300697	NC_021166.1	Ca_Kabuli_Chr07	13300697	GG	AA	AA	URR	101504644	Unknown function
SNP_51159_A_13300709	NC_021166.1	Ca_Kabuli_Chr07	13300709	GG	AA	AA	URR	101504644	Unknown function
SNP_51160_A_13301126	NC_021166.1	Ca_Kabuli_Chr07	13301126	GG	AA	AA	URR	101504644	Unknown function
SNP_51161_A_13301137	NC_021166.1	Ca_Kabuli_Chr07	13301137	GG	CC	CC	URR	101504644	Unknown function
SNP_51162_A_13301202	NC_021166.1	Ca_Kabuli_Chr07	13301202	CC	TT	TT	URR	101504644	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51163_A_13301560	NC_021166.1	Ca_Kabuli_Chr07	13301560	TT	CC	CC	URR	101504644	Unknown function
SNP_51164_A_13302567	NC_021166.1	Ca_Kabuli_Chr07	13302567	GG	TT	TT	INTERGENIC		
SNP_51165_A_13302830	NC_021166.1	Ca_Kabuli_Chr07	13302830	TT	AA	AA	INTERGENIC		
SNP_51166_A_13303559	NC_021166.1	Ca_Kabuli_Chr07	13303559	AA	GG	GG	INTERGENIC		
SNP_51167_A_13303641	NC_021166.1	Ca_Kabuli_Chr07	13303641	GG	CC	CC	INTERGENIC		
SNP_51168_A_13303763	NC_021166.1	Ca_Kabuli_Chr07	13303763	CC	TT	TT	INTERGENIC		
SNP_51169_A_13303790	NC_021166.1	Ca_Kabuli_Chr07	13303790	TT	CC	CC	INTERGENIC		
SNP_51170_A_13303838	NC_021166.1	Ca_Kabuli_Chr07	13303838	TT	AA	AA	INTERGENIC		
SNP_51171_A_13303877	NC_021166.1	Ca_Kabuli_Chr07	13303877	GG	AA	AA	INTERGENIC		
SNP_51172_A_13303915	NC_021166.1	Ca_Kabuli_Chr07	13303915	TT	CC	CC	INTERGENIC		
SNP_51173_A_13304115	NC_021166.1	Ca_Kabuli_Chr07	13304115	TT	CC	CC	INTERGENIC		
SNP_51174_A_13304341	NC_021166.1	Ca_Kabuli_Chr07	13304341	AA	TT	TT	INTERGENIC		
SNP_51175_A_13306189	NC_021166.1	Ca_Kabuli_Chr07	13306189	TT	CC	CC	INTERGENIC		
SNP_51176_A_13306216	NC_021166.1	Ca_Kabuli_Chr07	13306216	AA	GG	GG	INTERGENIC		
SNP_51177_A_13306246	NC_021166.1	Ca_Kabuli_Chr07	13306246	GG	AA	AA	INTERGENIC		
SNP_51179_A_13306759	NC_021166.1	Ca_Kabuli_Chr07	13306759	GG	AA	AA	INTERGENIC		
SNP_51180_A_13306948	NC_021166.1	Ca_Kabuli_Chr07	13306948	AA	GG	GG	INTERGENIC		
SNP_51181_A_13306949	NC_021166.1	Ca_Kabuli_Chr07	13306949	TT	GG	GG	INTERGENIC		
SNP_51182_A_13307926	NC_021166.1	Ca_Kabuli_Chr07	13307926	CC	TT	TT	INTERGENIC		
SNP_51183_A_13310498	NC_021166.1	Ca_Kabuli_Chr07	13310498	CC	TT	TT	INTERGENIC		
SNP_51184_A_13311798	NC_021166.1	Ca_Kabuli_Chr07	13311798	GG	AA	AA	DRR	101504960	BEL1-like homeodomain protein 4
SNP_51186_A_13314028	NC_021166.1	Ca_Kabuli_Chr07	13314028	GG	CC	CC	INTRON	101504960	BEL1-like homeodomain protein 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51187_A_13314210	NC_021166.1	Ca_Kabuli_Chr07	13314210	CC	TT	TT	INTRON	101504960	BEL1-like homeodomain protein 4
SNP_51188_A_13314266	NC_021166.1	Ca_Kabuli_Chr07	13314266	GG	AA	AA	INTRON	101504960	BEL1-like homeodomain protein 4
SNP_51189_A_13314841	NC_021166.1	Ca_Kabuli_Chr07	13314841	TT	AA	AA	INTRON	101504960	BEL1-like homeodomain protein 4
SNP_51190_A_13315225	NC_021166.1	Ca_Kabuli_Chr07	13315225	TT	CC	CC	INTRON	101504960	BEL1-like homeodomain protein 4
SNP_51191_A_13321902	NC_021166.1	Ca_Kabuli_Chr07	13321902	AA	GG	GG	URR	101504960	BEL1-like homeodomain protein 4
SNP_51193_A_13321963	NC_021166.1	Ca_Kabuli_Chr07	13321963	CC	TT	TT	URR	101504960	BEL1-like homeodomain protein 4
SNP_51194_A_13325485	NC_021166.1	Ca_Kabuli_Chr07	13325485	AA	GG	GG	INTERGENIC		
SNP_51195_A_13325625	NC_021166.1	Ca_Kabuli_Chr07	13325625	TT	GG	GG	INTERGENIC		
SNP_51196_A_13330687	NC_021166.1	Ca_Kabuli_Chr07	13330687	AA	TT	TT	INTERGENIC		
SNP_51197_A_13331008	NC_021166.1	Ca_Kabuli_Chr07	13331008	TT	AA	AA	INTERGENIC		
SNP_51198_A_13331013	NC_021166.1	Ca_Kabuli_Chr07	13331013	CC	AA	AA	INTERGENIC		
SNP_51199_A_13331021	NC_021166.1	Ca_Kabuli_Chr07	13331021	TT	AA	AA	INTERGENIC		
SNP_51200_A_13331025	NC_021166.1	Ca_Kabuli_Chr07	13331025	TT	GG	GG	INTERGENIC		
SNP_51201_A_13333613	NC_021166.1	Ca_Kabuli_Chr07	13333613	AA	GG	GG	INTERGENIC		
SNP_51202_A_13334017	NC_021166.1	Ca_Kabuli_Chr07	13334017	AA	GG	GG	INTERGENIC		
SNP_51203_A_13338143	NC_021166.1	Ca_Kabuli_Chr07	13338143	CC	AA	AA	INTERGENIC		
SNP_51204_A_13341425	NC_021166.1	Ca_Kabuli_Chr07	13341425	TT	AA	AA	INTERGENIC		
SNP_51205_A_13341426	NC_021166.1	Ca_Kabuli_Chr07	13341426	GG	TT	TT	INTERGENIC		
SNP_51206_A_13341905	NC_021166.1	Ca_Kabuli_Chr07	13341905	GG	AA	AA	INTERGENIC		
SNP_51207_A_13342005	NC_021166.1	Ca_Kabuli_Chr07	13342005	AA	TT	TT	INTERGENIC		
SNP_51208_A_13342085	NC_021166.1	Ca_Kabuli_Chr07	13342085	GG	AA	AA	INTERGENIC		
SNP_51209_A_13343276	NC_021166.1	Ca_Kabuli_Chr07	13343276	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51210_A_13348566	NC_021166.1	Ca_Kabuli_Chr07	13348566	CC		TT	TT	INTERGENIC		
SNP_51211_A_13348596	NC_021166.1	Ca_Kabuli_Chr07	13348596	TT		AA	AA	INTERGENIC		
SNP_51212_A_13359263	NC_021166.1	Ca_Kabuli_Chr07	13359263	TT		GG	GG	INTERGENIC		
SNP_51213_A_13359270	NC_021166.1	Ca_Kabuli_Chr07	13359270	GG		AA	AA	INTERGENIC		
SNP_51214_A_13359796	NC_021166.1	Ca_Kabuli_Chr07	13359796	TT		CC	CC	INTERGENIC		
SNP_51215_A_13365291	NC_021166.1	Ca_Kabuli_Chr07	13365291	CC		TT	TT	INTRON	101505272	protein DA1-related 1-like
SNP_51216_A_13368099	NC_021166.1	Ca_Kabuli_Chr07	13368099	AA		GG	GG	URR	101505272	protein DA1-related 1-like
SNP_51217_A_13368434	NC_021166.1	Ca_Kabuli_Chr07	13368434	CC		TT	TT	URR	101505272	protein DA1-related 1-like
SNP_51218_A_13368800	NC_021166.1	Ca_Kabuli_Chr07	13368800	AA		GG	GG	URR	101505272	protein DA1-related 1-like
SNP_51219_A_13369231	NC_021166.1	Ca_Kabuli_Chr07	13369231	TT		CC	CC	URR	101505272	protein DA1-related 1-like
SNP_51220_A_13369247	NC_021166.1	Ca_Kabuli_Chr07	13369247	GG		AA	AA	URR	101505272	protein DA1-related 1-like
SNP_51221_A_13370824	NC_021166.1	Ca_Kabuli_Chr07	13370824	GG		TT	TT	DRR	101505826	V-type proton ATPase subunit H
SNP_51222_A_13371186	NC_021166.1	Ca_Kabuli_Chr07	13371186	GG		AA	AA	DRR	101505826	V-type proton ATPase subunit H
SNP_51223_A_13371418	NC_021166.1	Ca_Kabuli_Chr07	13371418	CC		GG	GG	DRR	101505826	V-type proton ATPase subunit H
SNP_51225_A_13373322	NC_021166.1	Ca_Kabuli_Chr07	13373322	TT		CC	CC	INTRON	101505826	V-type proton ATPase subunit H
SNP_51226_A_13373690	NC_021166.1	Ca_Kabuli_Chr07	13373690	TT		AA	AA	INTRON	101505826	V-type proton ATPase subunit H
SNP_51227_A_13376976	NC_021166.1	Ca_Kabuli_Chr07	13376976	GG		AA	AA	INTRON	101505826	V-type proton ATPase subunit H
SNP_51228_A_13378763	NC_021166.1	Ca_Kabuli_Chr07	13378763	CC		TT	TT	DRR	101506677	protein LYK5
SNP_51229_A_13378789	NC_021166.1	Ca_Kabuli_Chr07	13378789	TT		AA	AA	DRR	101506677	protein LYK5
SNP_51231_A_13382286	NC_021166.1	Ca_Kabuli_Chr07	13382286	GG		AA	AA	DRR	101506356	pectate lyase 1-like
SNP_51232_A_13385197	NC_021166.1	Ca_Kabuli_Chr07	13385197	TT		CC	CC	URR	101506356	pectate lyase 1-like
SNP_51233_A_13387206	NC_021166.1	Ca_Kabuli_Chr07	13387206	TT		CC	CC	INTRON	101507010	probable pectate lyase 16

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51234_A_13387237	NC_021166.1	Ca_Kabuli_Chr07	13387237	AA	GG	GG	INTRON	101507010	probable pectate lyase 16
SNP_51235_A_13387537	NC_021166.1	Ca_Kabuli_Chr07	13387537	AA	GG	GG	SYNONYMOUS_CODING	101507010	probable pectate lyase 16
SNP_51236_A_13389609	NC_021166.1	Ca_Kabuli_Chr07	13389609	TT	GG	GG	URR	101507010	probable pectate lyase 16
SNP_51237_A_13389619	NC_021166.1	Ca_Kabuli_Chr07	13389619	GG	AA	AA	URR	101507010	probable pectate lyase 16
SNP_51238_A_13391977	NC_021166.1	Ca_Kabuli_Chr07	13391977	TT	CC	CC	INTERGENIC		
SNP_51239_A_13391989	NC_021166.1	Ca_Kabuli_Chr07	13391989	TT	GG	GG	INTERGENIC		
SNP_51240_A_13391995	NC_021166.1	Ca_Kabuli_Chr07	13391995	CC	TT	TT	INTERGENIC		
SNP_51241_A_13392305	NC_021166.1	Ca_Kabuli_Chr07	13392305	TT	CC	CC	INTERGENIC		
SNP_51242_A_13392338	NC_021166.1	Ca_Kabuli_Chr07	13392338	CC	TT	TT	INTERGENIC		
SNP_51243_A_13394234	NC_021166.1	Ca_Kabuli_Chr07	13394234	CC	TT	TT	DRR	101507335	probable calcium-binding protein CML41
SNP_51244_A_13397418	NC_021166.1	Ca_Kabuli_Chr07	13397418	AA	TT	TT	INTERGENIC		
SNP_51245_A_13398240	NC_021166.1	Ca_Kabuli_Chr07	13398240	GG	CC	CC	INTERGENIC		
SNP_51246_A_13398246	NC_021166.1	Ca_Kabuli_Chr07	13398246	TT	CC	CC	INTERGENIC		
SNP_51247_A_13398305	NC_021166.1	Ca_Kabuli_Chr07	13398305	TT	GG	GG	INTERGENIC		
SNP_51248_A_13398319	NC_021166.1	Ca_Kabuli_Chr07	13398319	GG	TT	TT	INTERGENIC		
SNP_51249_A_13398368	NC_021166.1	Ca_Kabuli_Chr07	13398368	CC	TT	TT	INTERGENIC		
SNP_51250_A_13398395	NC_021166.1	Ca_Kabuli_Chr07	13398395	CC	TT	TT	INTERGENIC		
SNP_51251_A_13399504	NC_021166.1	Ca_Kabuli_Chr07	13399504	GG	CC	CC	INTERGENIC		
SNP_51252_A_13399764	NC_021166.1	Ca_Kabuli_Chr07	13399764	TT	GG	GG	INTERGENIC		
SNP_51253_A_13400181	NC_021166.1	Ca_Kabuli_Chr07	13400181	CC	TT	TT	INTERGENIC		
SNP_51254_A_13400186	NC_021166.1	Ca_Kabuli_Chr07	13400186	TT	CC	CC	INTERGENIC		
SNP_51255_A_13400463	NC_021166.1	Ca_Kabuli_Chr07	13400463	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51256_A_13400464	NC_021166.1	Ca_Kabuli_Chr07	13400464	GG	AA	AA	INTERGENIC		
SNP_51257_A_13408064	NC_021166.1	Ca_Kabuli_Chr07	13408064	CC	GG	GG	URR	101507642	probable galacturonosyltransferase-like 1
SNP_51258_A_13408097	NC_021166.1	Ca_Kabuli_Chr07	13408097	TT	CC	CC	URR	101507642	probable galacturonosyltransferase-like 1
SNP_51259_A_13408474	NC_021166.1	Ca_Kabuli_Chr07	13408474	AA	GG	GG	URR	101507642	probable galacturonosyltransferase-like 1
SNP_51260_A_13408751	NC_021166.1	Ca_Kabuli_Chr07	13408751	AA	CC	CC	INTERGENIC		
SNP_51261_A_13410658	NC_021166.1	Ca_Kabuli_Chr07	13410658	CC	TT	TT	INTERGENIC		
SNP_51262_A_13410806	NC_021166.1	Ca_Kabuli_Chr07	13410806	CC	TT	TT	INTERGENIC		
SNP_51263_A_13412925	NC_021166.1	Ca_Kabuli_Chr07	13412925	CC	TT	TT	INTERGENIC		
SNP_51264_A_13413324	NC_021166.1	Ca_Kabuli_Chr07	13413324	TT	CC	CC	INTERGENIC		
SNP_51265_A_13414515	NC_021166.1	Ca_Kabuli_Chr07	13414515	TT	GG	GG	INTERGENIC		
SNP_51266_A_13414766	NC_021166.1	Ca_Kabuli_Chr07	13414766	GG	TT	TT	INTERGENIC		
SNP_51267_A_13415666	NC_021166.1	Ca_Kabuli_Chr07	13415666	TT	CC	CC	INTERGENIC		
SNP_51268_A_13415692	NC_021166.1	Ca_Kabuli_Chr07	13415692	CC	TT	TT	INTERGENIC		
SNP_51269_A_13416019	NC_021166.1	Ca_Kabuli_Chr07	13416019	AA	GG	GG	INTERGENIC		
SNP_51270_A_13439587	NC_021166.1	Ca_Kabuli_Chr07	13439587	GG	AA	AA	INTERGENIC		
SNP_51271_A_13439588	NC_021166.1	Ca_Kabuli_Chr07	13439588	AA	GG	GG	INTERGENIC		
SNP_51272_A_13442107	NC_021166.1	Ca_Kabuli_Chr07	13442107	GG	AA	AA	INTERGENIC		
SNP_51273_A_13442233	NC_021166.1	Ca_Kabuli_Chr07	13442233	CC	TT	TT	INTERGENIC		
SNP_51274_A_13443303	NC_021166.1	Ca_Kabuli_Chr07	13443303	AA	TT	TT	INTERGENIC		
SNP_51275_A_13443313	NC_021166.1	Ca_Kabuli_Chr07	13443313	AA	GG	GG	INTERGENIC		
SNP_51276_A_13443433	NC_021166.1	Ca_Kabuli_Chr07	13443433	CC	TT	TT	INTERGENIC		
SNP_51277_A_13444467	NC_021166.1	Ca_Kabuli_Chr07	13444467	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51278_A_13444475	NC_021166.1	Ca_Kabuli_Chr07	13444475	GG	AA	AA	INTERGENIC		
SNP_51279_A_13445096	NC_021166.1	Ca_Kabuli_Chr07	13445096	AA	GG	GG	INTERGENIC		
SNP_51280_A_13445335	NC_021166.1	Ca_Kabuli_Chr07	13445335	AA	GG	GG	INTERGENIC		
SNP_51281_A_13446840	NC_021166.1	Ca_Kabuli_Chr07	13446840	CC	TT	TT	INTERGENIC		
SNP_51282_A_13446961	NC_021166.1	Ca_Kabuli_Chr07	13446961	CC	TT	TT	INTERGENIC		
SNP_51283_A_13452665	NC_021166.1	Ca_Kabuli_Chr07	13452665	CC	TT	TT	UPSTREAM	Gene_ma25248	Unknown function
SNP_51285_A_13456929	NC_021166.1	Ca_Kabuli_Chr07	13456929	GG	AA	AA	INTERGENIC		
SNP_51286_A_13456984	NC_021166.1	Ca_Kabuli_Chr07	13456984	CC	TT	TT	INTERGENIC		
SNP_51287_A_13457059	NC_021166.1	Ca_Kabuli_Chr07	13457059	GG	AA	AA	INTERGENIC		
SNP_51288_A_13457082	NC_021166.1	Ca_Kabuli_Chr07	13457082	GG	AA	AA	INTERGENIC		
SNP_51289_A_13457443	NC_021166.1	Ca_Kabuli_Chr07	13457443	AA	GG	GG	INTERGENIC		
SNP_51290_A_13461018	NC_021166.1	Ca_Kabuli_Chr07	13461018	CC	TT	TT	INTERGENIC		
SNP_51291_A_13461175	NC_021166.1	Ca_Kabuli_Chr07	13461175	TT	CC	CC	INTERGENIC		
SNP_51292_A_13467740	NC_021166.1	Ca_Kabuli_Chr07	13467740	CC	TT	TT	URR	101508277	elongation of fatty acids protein 3-like
SNP_51295_A_13468639	NC_021166.1	Ca_Kabuli_Chr07	13468639	CC	AA	AA	URR	101508277	elongation of fatty acids protein 3-like
SNP_51296_A_13468640	NC_021166.1	Ca_Kabuli_Chr07	13468640	TT	AA	AA	URR	101508277	elongation of fatty acids protein 3-like
SNP_51297_A_13468936	NC_021166.1	Ca_Kabuli_Chr07	13468936	AA	GG	GG	INTERGENIC		
SNP_51298_A_13468940	NC_021166.1	Ca_Kabuli_Chr07	13468940	TT	CC	CC	INTERGENIC		
SNP_51299_A_13468967	NC_021166.1	Ca_Kabuli_Chr07	13468967	CC	TT	TT	INTERGENIC		
SNP_51300_A_13469021	NC_021166.1	Ca_Kabuli_Chr07	13469021	GG	AA	AA	INTERGENIC		
SNP_51301_A_13469289	NC_021166.1	Ca_Kabuli_Chr07	13469289	AA	TT	TT	INTERGENIC		
SNP_51302_A_13476725	NC_021166.1	Ca_Kabuli_Chr07	13476725	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51303_A_13477453	NC_021166.1	Ca_Kabuli_Chr07	13477453	CC	GG	GG	INTERGENIC		
SNP_51304_A_13478433	NC_021166.1	Ca_Kabuli_Chr07	13478433	AA	TT	TT	DRR	101498547	uncharacterized LOC101498547
SNP_51305_A_13479058	NC_021166.1	Ca_Kabuli_Chr07	13479058	GG	AA	AA	INTERGENIC		
SNP_51306_A_13479075	NC_021166.1	Ca_Kabuli_Chr07	13479075	TT	CC	CC	INTERGENIC		
SNP_51307_A_13479137	NC_021166.1	Ca_Kabuli_Chr07	13479137	CC	TT	TT	INTERGENIC		
SNP_51308_A_13479243	NC_021166.1	Ca_Kabuli_Chr07	13479243	AA	CC	CC	INTERGENIC		
SNP_51310_A_13479961	NC_021166.1	Ca_Kabuli_Chr07	13479961	AA	CC	CC	INTERGENIC		
SNP_51311_A_13479982	NC_021166.1	Ca_Kabuli_Chr07	13479982	AA	GG	GG	INTERGENIC		
SNP_51312_A_13480005	NC_021166.1	Ca_Kabuli_Chr07	13480005	TT	GG	GG	INTERGENIC		
SNP_51313_A_13481324	NC_021166.1	Ca_Kabuli_Chr07	13481324	GG	CC	CC	DRR	101508599	calcium uniporter protein 2, mitochondrial
SNP_51314_A_13484613	NC_021166.1	Ca_Kabuli_Chr07	13484613	GG	TT	TT	INTRON	101508599	calcium uniporter protein 2, mitochondrial
SNP_51315_A_13487446	NC_021166.1	Ca_Kabuli_Chr07	13487446	AA	TT	TT	INTERGENIC		
SNP_51316_A_13492728	NC_021166.1	Ca_Kabuli_Chr07	13492728	AA	GG	GG	INTERGENIC		
SNP_51317_A_13493220	NC_021166.1	Ca_Kabuli_Chr07	13493220	GG	TT	TT	INTERGENIC		
SNP_51318_A_13493697	NC_021166.1	Ca_Kabuli_Chr07	13493697	TT	CC	CC	INTERGENIC		
SNP_51319_A_13494586	NC_021166.1	Ca_Kabuli_Chr07	13494586	CC	TT	TT	INTERGENIC		
SNP_51322_A_13498236	NC_021166.1	Ca_Kabuli_Chr07	13498236	CC	GG	GG	INTERGENIC		
SNP_51323_A_13499866	NC_021166.1	Ca_Kabuli_Chr07	13499866	TT	CC	CC	INTERGENIC		
SNP_51324_A_13500412	NC_021166.1	Ca_Kabuli_Chr07	13500412	GG	TT	TT	INTERGENIC		
SNP_51325_A_13500420	NC_021166.1	Ca_Kabuli_Chr07	13500420	CC	AA	AA	INTERGENIC		
SNP_51327_A_13500485	NC_021166.1	Ca_Kabuli_Chr07	13500485	AA	TT	TT	INTERGENIC		
SNP_51328_A_13500557	NC_021166.1	Ca_Kabuli_Chr07	13500557	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51329_A_13501447	NC_021166.1	Ca_Kabuli_Chr07	13501447	AA	CC	CC	INTERGENIC		
SNP_51330_A_13504367	NC_021166.1	Ca_Kabuli_Chr07	13504367	TT	CC	CC	INTERGENIC		
SNP_51331_A_13506856	NC_021166.1	Ca_Kabuli_Chr07	13506856	TT	CC	CC	INTERGENIC		
SNP_51332_A_13506857	NC_021166.1	Ca_Kabuli_Chr07	13506857	CC	TT	TT	INTERGENIC		
SNP_51333_A_13506878	NC_021166.1	Ca_Kabuli_Chr07	13506878	GG	AA	AA	INTERGENIC		
SNP_51334_A_13506882	NC_021166.1	Ca_Kabuli_Chr07	13506882	CC	TT	TT	INTERGENIC		
SNP_51335_A_13507138	NC_021166.1	Ca_Kabuli_Chr07	13507138	TT	CC	CC	INTERGENIC		
SNP_51336_A_13507169	NC_021166.1	Ca_Kabuli_Chr07	13507169	GG	AA	AA	INTERGENIC		
SNP_51337_A_13507201	NC_021166.1	Ca_Kabuli_Chr07	13507201	AA	TT	TT	INTERGENIC		
SNP_51338_A_13511877	NC_021166.1	Ca_Kabuli_Chr07	13511877	TT	CC	CC	INTERGENIC		
SNP_51339_A_13511926	NC_021166.1	Ca_Kabuli_Chr07	13511926	AA	GG	GG	INTERGENIC		
SNP_51340_A_13511932	NC_021166.1	Ca_Kabuli_Chr07	13511932	CC	TT	TT	INTERGENIC		
SNP_51341_A_13512019	NC_021166.1	Ca_Kabuli_Chr07	13512019	TT	AA	AA	INTERGENIC		
SNP_51342_A_13512024	NC_021166.1	Ca_Kabuli_Chr07	13512024	CC	TT	TT	INTERGENIC		
SNP_51343_A_13512143	NC_021166.1	Ca_Kabuli_Chr07	13512143	AA	GG	GG	INTERGENIC		
SNP_51344_A_13512148	NC_021166.1	Ca_Kabuli_Chr07	13512148	AA	TT	TT	INTERGENIC		
SNP_51345_A_13512152	NC_021166.1	Ca_Kabuli_Chr07	13512152	TT	CC	CC	INTERGENIC		
SNP_51346_A_13512187	NC_021166.1	Ca_Kabuli_Chr07	13512187	GG	AA	AA	INTERGENIC		
SNP_51347_A_13512371	NC_021166.1	Ca_Kabuli_Chr07	13512371	GG	CC	CC	INTERGENIC		
SNP_51348_A_13515064	NC_021166.1	Ca_Kabuli_Chr07	13515064	GG	AA	AA	INTRON	101508912	UPF0496 protein At2g18630-like
SNP_51349_A_13516558	NC_021166.1	Ca_Kabuli_Chr07	13516558	GG	TT	TT	URR	101508912	UPF0496 protein At2g18630-like
SNP_51350_A_13516648	NC_021166.1	Ca_Kabuli_Chr07	13516648	AA	GG	GG	URR	101508912	UPF0496 protein At2g18630-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51351_A_13516921	NC_021166.1	Ca_Kabuli_Chr07	13516921	AA	GG	GG	URR	101508912	UPF0496 protein At2g18630-like
SNP_51352_A_13516924	NC_021166.1	Ca_Kabuli_Chr07	13516924	AA	GG	GG	URR	101508912	UPF0496 protein At2g18630-like
SNP_51353_A_13516944	NC_021166.1	Ca_Kabuli_Chr07	13516944	TT	CC	CC	URR	101508912	UPF0496 protein At2g18630-like
SNP_51355_A_13525149	NC_021166.1	Ca_Kabuli_Chr07	13525149	TT	AA	AA	INTERGENIC		
SNP_51356_A_13527015	NC_021166.1	Ca_Kabuli_Chr07	13527015	CC	TT	TT	INTERGENIC		
SNP_51357_A_13530426	NC_021166.1	Ca_Kabuli_Chr07	13530426	TT	CC	CC	INTERGENIC		
SNP_51358_A_13530429	NC_021166.1	Ca_Kabuli_Chr07	13530429	TT	CC	CC	INTERGENIC		
SNP_51359_A_13530944	NC_021166.1	Ca_Kabuli_Chr07	13530944	CC	TT	TT	INTERGENIC		
SNP_51360_A_13540991	NC_021166.1	Ca_Kabuli_Chr07	13540991	TT	CC	CC	INTERGENIC		
SNP_51361_A_13545046	NC_021166.1	Ca_Kabuli_Chr07	13545046	TT	CC	CC	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51362_A_13545052	NC_021166.1	Ca_Kabuli_Chr07	13545052	AA	CC	CC	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51363_A_13545054	NC_021166.1	Ca_Kabuli_Chr07	13545054	AA	TT	TT	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51364_A_13545065	NC_021166.1	Ca_Kabuli_Chr07	13545065	AA	GG	GG	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51365_A_13545076	NC_021166.1	Ca_Kabuli_Chr07	13545076	CC	TT	TT	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51366_A_13545101	NC_021166.1	Ca_Kabuli_Chr07	13545101	CC	TT	TT	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51367_A_13545109	NC_021166.1	Ca_Kabuli_Chr07	13545109	TT	CC	CC	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51368_A_13546019	NC_021166.1	Ca_Kabuli_Chr07	13546019	CC	TT	TT	INTRON	101498884	serine/threonine-protein kinase HT1-like
SNP_51369_A_13548899	NC_021166.1	Ca_Kabuli_Chr07	13548899	GG	AA	AA	DRR	101509554	G-box-binding factor 1
SNP_51370_A_13548901	NC_021166.1	Ca_Kabuli_Chr07	13548901	TT	CC	CC	DRR	101509554	G-box-binding factor 1
SNP_51371_A_13549172	NC_021166.1	Ca_Kabuli_Chr07	13549172	GG	CC	CC	DRR	101509554	G-box-binding factor 1
SNP_51372_A_13556146	NC_021166.1	Ca_Kabuli_Chr07	13556146	GG	AA	AA	URR	101509554	G-box-binding factor 1
SNP_51373_A_13566897	NC_021166.1	Ca_Kabuli_Chr07	13566897	AA	GG	GG	URR	101499525	RNA-binding protein 48-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51374_A_13572910	NC_021166.1	Ca_Kabuli_Chr07	13572910	CC	GG	GG	INTRON	101510095	tRNA threonylcarbamoyladenosine dehydratase 2-like
SNP_51375_A_13573126	NC_021166.1	Ca_Kabuli_Chr07	13573126	AA	GG	GG	INTRON	101510095	tRNA threonylcarbamoyladenosine dehydratase 2-like
SNP_51376_A_13583991	NC_021166.1	Ca_Kabuli_Chr07	13583991	AA	TT	TT	URR	101510420	scarecrow-like protein 15
SNP_51377_A_13587192	NC_021166.1	Ca_Kabuli_Chr07	13587192	CC	AA	AA	INTERGENIC		
SNP_51378_A_13587693	NC_021166.1	Ca_Kabuli_Chr07	13587693	CC	TT	TT	INTERGENIC		
SNP_51379_A_13588041	NC_021166.1	Ca_Kabuli_Chr07	13588041	TT	CC	CC	INTERGENIC		
SNP_51380_A_13592258	NC_021166.1	Ca_Kabuli_Chr07	13592258	AA	GG	GG	INTERGENIC		
SNP_51381_A_13592629	NC_021166.1	Ca_Kabuli_Chr07	13592629	AA	CC	CC	INTERGENIC		
SNP_51382_A_13594228	NC_021166.1	Ca_Kabuli_Chr07	13594228	CC	TT	TT	INTERGENIC		
SNP_51383_A_13595212	NC_021166.1	Ca_Kabuli_Chr07	13595212	CC	TT	TT	INTERGENIC		
SNP_51384_A_13595213	NC_021166.1	Ca_Kabuli_Chr07	13595213	GG	AA	AA	INTERGENIC		
SNP_51385_A_13597018	NC_021166.1	Ca_Kabuli_Chr07	13597018	AA	GG	GG	INTERGENIC		
SNP_51387_A_13599634	NC_021166.1	Ca_Kabuli_Chr07	13599634	CC	AA	AA	INTERGENIC		
SNP_51388_A_13601877	NC_021166.1	Ca_Kabuli_Chr07	13601877	AA	CC	CC	INTERGENIC		
SNP_51389_A_13606818	NC_021166.1	Ca_Kabuli_Chr07	13606818	AA	CC	CC	INTRON	101510748	protein indeterminate-domain 1
SNP_51390_A_13612103	NC_021166.1	Ca_Kabuli_Chr07	13612103	GG	TT	TT	INTERGENIC		
SNP_51391_A_13612435	NC_021166.1	Ca_Kabuli_Chr07	13612435	TT	GG	GG	INTERGENIC		
SNP_51392_A_13613774	NC_021166.1	Ca_Kabuli_Chr07	13613774	TT	AA	AA	INTERGENIC		
SNP_51393_A_13617846	NC_021166.1	Ca_Kabuli_Chr07	13617846	TT	CC	CC	INTERGENIC		
SNP_51394_A_13618612	NC_021166.1	Ca_Kabuli_Chr07	13618612	GG	AA	AA	INTERGENIC		
SNP_51395_A_13620058	NC_021166.1	Ca_Kabuli_Chr07	13620058	GG	AA	AA	INTERGENIC		
SNP_51396_A_13620059	NC_021166.1	Ca_Kabuli_Chr07	13620059	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51397_A_13620091	NC_021166.1	Ca_Kabuli_Chr07	13620091	TT	GG	GG	INTERGENIC		
SNP_51398_A_13620093	NC_021166.1	Ca_Kabuli_Chr07	13620093	AA	GG	GG	INTERGENIC		
SNP_51399_A_13621939	NC_021166.1	Ca_Kabuli_Chr07	13621939	GG	CC	CC	INTERGENIC		
SNP_51401_A_13623912	NC_021166.1	Ca_Kabuli_Chr07	13623912	GG	AA	AA	INTRON	101499825	probable polyol transporter 6
SNP_51402_A_13631028	NC_021166.1	Ca_Kabuli_Chr07	13631028	TT	CC	CC	INTERGENIC		
SNP_51403_A_13631099	NC_021166.1	Ca_Kabuli_Chr07	13631099	TT	CC	CC	INTERGENIC		
SNP_51404_A_13644994	NC_021166.1	Ca_Kabuli_Chr07	13644994	TT	CC	CC	INTERGENIC		
SNP_51405_A_13648939	NC_021166.1	Ca_Kabuli_Chr07	13648939	AA	TT	TT	INTERGENIC		
SNP_51406_A_13648946	NC_021166.1	Ca_Kabuli_Chr07	13648946	AA	TT	TT	INTERGENIC		
SNP_51407_A_13652555	NC_021166.1	Ca_Kabuli_Chr07	13652555	AA	GG	GG	INTRON	101511818	acidic leucine-rich nuclear phosphoprotein 32-related protein
SNP_51408_A_13652621	NC_021166.1	Ca_Kabuli_Chr07	13652621	GG	TT	TT	INTRON	101511818	acidic leucine-rich nuclear phosphoprotein 32-related protein
SNP_51411_A_13657792	NC_021166.1	Ca_Kabuli_Chr07	13657792	AA	GG	GG	INTERGENIC		
SNP_51412_A_13659153	NC_021166.1	Ca_Kabuli_Chr07	13659153	TT	AA	AA	INTERGENIC		
SNP_51413_A_13663932	NC_021166.1	Ca_Kabuli_Chr07	13663932	GG	AA	AA	INTERGENIC		
SNP_51414_A_13664484	NC_021166.1	Ca_Kabuli_Chr07	13664484	GG	TT	TT	INTERGENIC		
SNP_51415_A_13664485	NC_021166.1	Ca_Kabuli_Chr07	13664485	TT	GG	GG	INTERGENIC		
SNP_51416_A_13667103	NC_021166.1	Ca_Kabuli_Chr07	13667103	TT	GG	GG	INTRON	101512251	U1 small nuclear ribonucleoprotein 70 kDa
SNP_51417_A_13667676	NC_021166.1	Ca_Kabuli_Chr07	13667676	AA	TT	TT	INTRON	101512251	U1 small nuclear ribonucleoprotein 70 kDa
SNP_51418_A_13671455	NC_021166.1	Ca_Kabuli_Chr07	13671455	AA	GG	GG	INTERGENIC		
SNP_51419_A_13672668	NC_021166.1	Ca_Kabuli_Chr07	13672668	TT	CC	CC	DRR	101512581	uncharacterized LOC101512581
SNP_51420_A_13673461	NC_021166.1	Ca_Kabuli_Chr07	13673461	AA	CC	CC	DRR	101512581	uncharacterized LOC101512581
SNP_51421_A_13674703	NC_021166.1	Ca_Kabuli_Chr07	13674703	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51422_A_13674773	NC_021166.1	Ca_Kabuli_Chr07	13674773	GG	AA	AA	INTERGENIC		
SNP_51423_A_13675010	NC_021166.1	Ca_Kabuli_Chr07	13675010	AA	GG	GG	INTERGENIC		
SNP_51425_A_13680337	NC_021166.1	Ca_Kabuli_Chr07	13680337	GG	AA	AA	INTERGENIC		
SNP_51426_A_13684199	NC_021166.1	Ca_Kabuli_Chr07	13684199	AA	GG	GG	URR	101512887	uncharacterized LOC101512887
SNP_51428_A_13684405	NC_021166.1	Ca_Kabuli_Chr07	13684405	CC	GG	GG	URR	101512887	uncharacterized LOC101512887
SNP_51430_A_13684603	NC_021166.1	Ca_Kabuli_Chr07	13684603	CC	AA	AA	URR	101512887	uncharacterized LOC101512887
SNP_51431_A_13686215	NC_021166.1	Ca_Kabuli_Chr07	13686215	TT	CC	CC	INTERGENIC		
SNP_51432_A_13686546	NC_021166.1	Ca_Kabuli_Chr07	13686546	CC	TT	TT	INTERGENIC		
SNP_51434_A_13687390	NC_021166.1	Ca_Kabuli_Chr07	13687390	AA	GG	GG	INTERGENIC		
SNP_51435_A_13689006	NC_021166.1	Ca_Kabuli_Chr07	13689006	CC	TT	TT	INTERGENIC		
SNP_51436_A_13689018	NC_021166.1	Ca_Kabuli_Chr07	13689018	GG	AA	AA	INTERGENIC		
SNP_51437_A_13690527	NC_021166.1	Ca_Kabuli_Chr07	13690527	GG	AA	AA	INTERGENIC		
SNP_51439_A_13690626	NC_021166.1	Ca_Kabuli_Chr07	13690626	AA	GG	GG	INTERGENIC		
SNP_51440_A_13693370	NC_021166.1	Ca_Kabuli_Chr07	13693370	CC	TT	TT	INTERGENIC		
SNP_51441_A_13693385	NC_021166.1	Ca_Kabuli_Chr07	13693385	AA	GG	GG	INTERGENIC		
SNP_51442_A_13693560	NC_021166.1	Ca_Kabuli_Chr07	13693560	TT	CC	CC	INTERGENIC		
SNP_51443_A_13693584	NC_021166.1	Ca_Kabuli_Chr07	13693584	AA	GG	GG	INTERGENIC		
SNP_51444_A_13696404	NC_021166.1	Ca_Kabuli_Chr07	13696404	GG	AA	AA	INTERGENIC		
SNP_51445_A_13696406	NC_021166.1	Ca_Kabuli_Chr07	13696406	TT	CC	CC	INTERGENIC		
SNP_51446_A_13700952	NC_021166.1	Ca_Kabuli_Chr07	13700952	TT	AA	AA	INTERGENIC		
SNP_51447_A_13701079	NC_021166.1	Ca_Kabuli_Chr07	13701079	GG	AA	AA	INTERGENIC		
SNP_51448_A_13701512	NC_021166.1	Ca_Kabuli_Chr07	13701512	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51449_A_13706141	NC_021166.1	Ca_Kabuli_Chr07	13706141	TT	CC	CC	INTERGENIC		
SNP_51450_A_13706145	NC_021166.1	Ca_Kabuli_Chr07	13706145	AA	GG	GG	INTERGENIC		
SNP_51451_A_13708061	NC_021166.1	Ca_Kabuli_Chr07	13708061	TT	AA	AA	INTERGENIC		
SNP_51452_A_13709829	NC_021166.1	Ca_Kabuli_Chr07	13709829	AA	GG	GG	INTERGENIC		
SNP_51453_A_13710739	NC_021166.1	Ca_Kabuli_Chr07	13710739	CC	AA	AA	INTERGENIC		
SNP_51454_A_13710899	NC_021166.1	Ca_Kabuli_Chr07	13710899	GG	TT	TT	INTERGENIC		
SNP_51455_A_13710970	NC_021166.1	Ca_Kabuli_Chr07	13710970	GG	AA	AA	INTERGENIC		
SNP_51456_A_13711479	NC_021166.1	Ca_Kabuli_Chr07	13711479	AA	CC	CC	INTERGENIC		
SNP_51457_A_13717827	NC_021166.1	Ca_Kabuli_Chr07	13717827	TT	AA	AA	INTRON	101500152	cytochrome P450 90B1-like
SNP_51458_A_13717886	NC_021166.1	Ca_Kabuli_Chr07	13717886	TT	AA	AA	INTRON	101500152	cytochrome P450 90B1-like
SNP_51459_A_13717997	NC_021166.1	Ca_Kabuli_Chr07	13717997	CC	TT	TT	INTRON	101500152	cytochrome P450 90B1-like
SNP_51460_A_13718629	NC_021166.1	Ca_Kabuli_Chr07	13718629	CC	TT	TT	INTRON	101500152	cytochrome P450 90B1-like
SNP_51461_A_13719009	NC_021166.1	Ca_Kabuli_Chr07	13719009	TT	CC	CC	INTRON	101500152	cytochrome P450 90B1-like
SNP_51462_A_13719047	NC_021166.1	Ca_Kabuli_Chr07	13719047	TT	CC	CC	INTRON	101500152	cytochrome P450 90B1-like
SNP_51463_A_13719063	NC_021166.1	Ca_Kabuli_Chr07	13719063	AA	TT	TT	INTRON	101500152	cytochrome P450 90B1-like
SNP_51464_A_13719066	NC_021166.1	Ca_Kabuli_Chr07	13719066	TT	AA	AA	INTRON	101500152	cytochrome P450 90B1-like
SNP_51465_A_13722071	NC_021166.1	Ca_Kabuli_Chr07	13722071	TT	CC	CC	URR	101500152	cytochrome P450 90B1-like
SNP_51466_A_13722080	NC_021166.1	Ca_Kabuli_Chr07	13722080	AA	TT	TT	URR	101500152	cytochrome P450 90B1-like
SNP_51467_A_13728022	NC_021166.1	Ca_Kabuli_Chr07	13728022	CC	AA	AA	INTRON	101513215	succinate dehydrogenase [ubiquinone] flavoprotein subunit 1, mitochondrial
SNP_51468_A_13730027	NC_021166.1	Ca_Kabuli_Chr07	13730027	CC	GG	GG	INTRON	101513215	succinate dehydrogenase [ubiquinone] flavoprotein subunit 1, mitochondrial
SNP_51469_A_13735388	NC_021166.1	Ca_Kabuli_Chr07	13735388	TT	CC	CC	INTERGENIC		
SNP_51470_A_13735389	NC_021166.1	Ca_Kabuli_Chr07	13735389	TT	GG	GG	INTERGENIC		

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SNP_51471_A_13735392	NC_021166.1	Ca_Kabuli_Chr07	13735392	TT	CC	CC	INTERGENIC		
SNP_51472_A_13749296	NC_021166.1	Ca_Kabuli_Chr07	13749296	TT	AA	AA	DRR	101514515	vam6/Vps39-like protein
SNP_51473_A_13751965	NC_021166.1	Ca_Kabuli_Chr07	13751965	AA	CC	CC	INTRON	101514515	vam6/Vps39-like protein
SNP_51474_A_13759341	NC_021166.1	Ca_Kabuli_Chr07	13759341	CC	GG	GG	DRR	101515054	protein N-lysine methyltransferase METTL21A-like
SNP_51475_A_13761295	NC_021166.1	Ca_Kabuli_Chr07	13761295	GG	CC	CC	URR	101514515	vam6/Vps39-like protein
SNP_51476_A_13763095	NC_021166.1	Ca_Kabuli_Chr07	13763095	GG	AA	AA	DRR	101515376	AP-3 complex subunit sigma
SNP_51477_A_13763113	NC_021166.1	Ca_Kabuli_Chr07	13763113	AA	GG	GG	DRR	101515376	AP-3 complex subunit sigma
SNP_51478_A_13763627	NC_021166.1	Ca_Kabuli_Chr07	13763627	AA	GG	GG	DRR	101515376	AP-3 complex subunit sigma
SNP_51479_A_13763628	NC_021166.1	Ca_Kabuli_Chr07	13763628	AA	TT	TT	DRR	101515376	AP-3 complex subunit sigma
SNP_51480_A_13763629	NC_021166.1	Ca_Kabuli_Chr07	13763629	CC	TT	TT	DRR	101515376	AP-3 complex subunit sigma
SNP_51481_A_13763630	NC_021166.1	Ca_Kabuli_Chr07	13763630	TT	CC	CC	DRR	101515376	AP-3 complex subunit sigma
SNP_51482_A_13763631	NC_021166.1	Ca_Kabuli_Chr07	13763631	TT	AA	AA	DRR	101515376	AP-3 complex subunit sigma
SNP_51483_A_13765947	NC_021166.1	Ca_Kabuli_Chr07	13765947	GG	AA	AA	INTERGENIC		
SNP_51484_A_13768067	NC_021166.1	Ca_Kabuli_Chr07	13768067	GG	AA	AA	INTERGENIC		
SNP_51485_A_13768452	NC_021166.1	Ca_Kabuli_Chr07	13768452	TT	CC	CC	URR	101515376	AP-3 complex subunit sigma
SNP_51486_A_13768466	NC_021166.1	Ca_Kabuli_Chr07	13768466	CC	AA	AA	URR	101515376	AP-3 complex subunit sigma
SNP_51487_A_13769142	NC_021166.1	Ca_Kabuli_Chr07	13769142	TT	CC	CC	DRR	101515711	pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2
SNP_51488_A_13769169	NC_021166.1	Ca_Kabuli_Chr07	13769169	CC	GG	GG	DRR	101515711	pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2
SNP_51489_A_13770562	NC_021166.1	Ca_Kabuli_Chr07	13770562	CC	TT	TT	INTERGENIC		
SNP_51490_A_13772016	NC_021166.1	Ca_Kabuli_Chr07	13772016	GG	TT	TT	INTERGENIC		
SNP_51491_A_13775394	NC_021166.1	Ca_Kabuli_Chr07	13775394	CC	TT	TT	INTRON	101515711	pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2
SNP_51492_A_13775420	NC_021166.1	Ca_Kabuli_Chr07	13775420	AA	GG	GG	INTRON	101515711	pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51493_A_13777684	NC_021166.1	Ca_Kabuli_Chr07	13777684	AA	GG	GG	URR	101515711	pyridine nucleotide-disulfide oxidoreductase domain-containing protein 2
SNP_51494_A_13779925	NC_021166.1	Ca_Kabuli_Chr07	13779925	CC	AA	AA	INTERGENIC		
SNP_51495_A_13790830	NC_021166.1	Ca_Kabuli_Chr07	13790830	TT	CC	CC	INTERGENIC		
SNP_51497_A_13848200	NC_021166.1	Ca_Kabuli_Chr07	13848200	GG	TT	TT	INTERGENIC		
SNP_51498_A_13864245	NC_021166.1	Ca_Kabuli_Chr07	13864245	AA	CC	CC	URR	101490979	late embryogenesis abundant protein D-29
SNP_51500_A_13937142	NC_021166.1	Ca_Kabuli_Chr07	13937142	AA	TT	TT	INTERGENIC		
SNP_51501_A_14000648	NC_021166.1	Ca_Kabuli_Chr07	14000648	GG	TT	TT	INTERGENIC		
SNP_51502_A_14016177	NC_021166.1	Ca_Kabuli_Chr07	14016177	TT	AA	AA	INTERGENIC		
SNP_51503_A_14020860	NC_021166.1	Ca_Kabuli_Chr07	14020860	AA	GG	GG	INTERGENIC		
SNP_51504_A_14022362	NC_021166.1	Ca_Kabuli_Chr07	14022362	TT	CC	CC	INTERGENIC		
SNP_51505_A_14026845	NC_021166.1	Ca_Kabuli_Chr07	14026845	TT	GG	GG	INTERGENIC		
SNP_51507_A_14066075	NC_021166.1	Ca_Kabuli_Chr07	14066075	GG	AA	AA	INTRON	101496913	salicylate carboxymethyltransferase-like
SNP_51508_A_14066079	NC_021166.1	Ca_Kabuli_Chr07	14066079	CC	TT	TT	INTRON	101496913	salicylate carboxymethyltransferase-like
SNP_51509_A_14066111	NC_021166.1	Ca_Kabuli_Chr07	14066111	TT	AA	AA	INTRON	101496913	salicylate carboxymethyltransferase-like
SNP_51511_A_14071991	NC_021166.1	Ca_Kabuli_Chr07	14071991	CC	TT	TT	INTERGENIC		
SNP_51512_A_14072742	NC_021166.1	Ca_Kabuli_Chr07	14072742	AA	GG	GG	INTERGENIC		
SNP_51513_A_14073197	NC_021166.1	Ca_Kabuli_Chr07	14073197	TT	GG	GG	INTERGENIC		
SNP_51515_A_14081225	NC_021166.1	Ca_Kabuli_Chr07	14081225	CC	TT	TT	INTERGENIC		
SNP_51516_A_14081273	NC_021166.1	Ca_Kabuli_Chr07	14081273	AA	GG	GG	INTERGENIC		
SNP_51517_A_14083307	NC_021166.1	Ca_Kabuli_Chr07	14083307	CC	TT	TT	DRR	101497237	salicylate carboxymethyltransferase-like
SNP_51518_A_14083319	NC_021166.1	Ca_Kabuli_Chr07	14083319	TT	CC	CC	DRR	101497237	salicylate carboxymethyltransferase-like
SNP_51519_A_14083369	NC_021166.1	Ca_Kabuli_Chr07	14083369	TT	CC	CC	DRR	101497237	salicylate carboxymethyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_51520_A_14083444	NC_021166.1	Ca_Kabuli_Chr07	14083444	AA	TT	TT	DRR		101497237	salicylate carboxymethyltransferase-like
SNP_51521_A_14083843	NC_021166.1	Ca_Kabuli_Chr07	14083843	AA	GG	GG	DRR		101497237	salicylate carboxymethyltransferase-like
SNP_51522_A_14088870	NC_021166.1	Ca_Kabuli_Chr07	14088870	GG	TT	TT	INTERGENIC			
SNP_51523_A_14091349	NC_021166.1	Ca_Kabuli_Chr07	14091349	CC	TT	TT	INTERGENIC			
SNP_51524_A_14091426	NC_021166.1	Ca_Kabuli_Chr07	14091426	AA	CC	CC	INTERGENIC			
SNP_51525_A_14091733	NC_021166.1	Ca_Kabuli_Chr07	14091733	GG	AA	AA	INTERGENIC			
SNP_51526_A_14108503	NC_021166.1	Ca_Kabuli_Chr07	14108503	GG	AA	AA	INTERGENIC			
SNP_51527_A_14121170	NC_021166.1	Ca_Kabuli_Chr07	14121170	CC	TT	TT	INTERGENIC			
SNP_51528_A_14140631	NC_021166.1	Ca_Kabuli_Chr07	14140631	TT	CC	CC	INTERGENIC			
SNP_51530_A_14270911	NC_021166.1	Ca_Kabuli_Chr07	14270911	GG	AA	AA	INTERGENIC			
SNP_51531_A_14301809	NC_021166.1	Ca_Kabuli_Chr07	14301809	CC	TT	TT	INTERGENIC			
SNP_51534_A_14370003	NC_021166.1	Ca_Kabuli_Chr07	14370003	TT	CC	CC	INTERGENIC			
SNP_51535_A_14370038	NC_021166.1	Ca_Kabuli_Chr07	14370038	CC	TT	TT	INTERGENIC			
SNP_51536_A_14371418	NC_021166.1	Ca_Kabuli_Chr07	14371418	TT	AA	AA	INTERGENIC			
SNP_51537_A_14371419	NC_021166.1	Ca_Kabuli_Chr07	14371419	TT	AA	AA	INTERGENIC			
SNP_51539_A_14483058	NC_021166.1	Ca_Kabuli_Chr07	14483058	TT	CC	CC	INTERGENIC			
SNP_51540_A_14483512	NC_021166.1	Ca_Kabuli_Chr07	14483512	AA	GG	GG	DRR		101512459	GATA transcription factor 5-like
SNP_51541_A_14483513	NC_021166.1	Ca_Kabuli_Chr07	14483513	TT	CC	CC	DRR		101512459	GATA transcription factor 5-like
SNP_51542_A_14490120	NC_021166.1	Ca_Kabuli_Chr07	14490120	AA	GG	GG	INTERGENIC			
SNP_51543_A_14498900	NC_021166.1	Ca_Kabuli_Chr07	14498900	GG	AA	AA	INTRON		101508175	zinc finger MYM-type protein 1-like
SNP_51544_A_14514783	NC_021166.1	Ca_Kabuli_Chr07	14514783	TT	AA	AA	INTERGENIC			
SNP_51545_A_14603555	NC_021166.1	Ca_Kabuli_Chr07	14603555	GG	AA	AA	URR		101488361	V-type proton ATPase 16 kDa proteolipid subunit

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SNP_51546_A_14724501	NC_021166.1	Ca_Kabuli_Chr07	14724501	TT	AA	AA	INTERGENIC		
SNP_51547_A_14766717	NC_021166.1	Ca_Kabuli_Chr07	14766717	GG	AA	AA	DRR	101493577	DNA-(apurinic or apyrimidinic site) lyase 2
SNP_51548_A_14778008	NC_021166.1	Ca_Kabuli_Chr07	14778008	AA	GG	GG	URR	101493894	mediator of RNA polymerase II transcription subunit 4-like
SNP_51549_A_14780895	NC_021166.1	Ca_Kabuli_Chr07	14780895	CC	GG	GG	INTERGENIC		
SNP_51552_A_14806758	NC_021166.1	Ca_Kabuli_Chr07	14806758	AA	GG	GG	INTERGENIC		
SNP_51553_A_14806767	NC_021166.1	Ca_Kabuli_Chr07	14806767	CC	TT	TT	INTERGENIC		
SNP_51554_A_14806792	NC_021166.1	Ca_Kabuli_Chr07	14806792	GG	TT	TT	INTERGENIC		
SNP_51555_A_14811699	NC_021166.1	Ca_Kabuli_Chr07	14811699	AA	GG	GG	INTERGENIC		
SNP_51556_A_14811732	NC_021166.1	Ca_Kabuli_Chr07	14811732	TT	CC	CC	INTERGENIC		
SNP_51557_A_14813851	NC_021166.1	Ca_Kabuli_Chr07	14813851	GG	AA	AA	INTERGENIC		
SNP_51558_A_14821267	NC_021166.1	Ca_Kabuli_Chr07	14821267	CC	TT	TT	INTERGENIC		
SNP_51560_A_14858045	NC_021166.1	Ca_Kabuli_Chr07	14858045	AA	TT	TT	INTERGENIC		
SNP_51561_A_14858046	NC_021166.1	Ca_Kabuli_Chr07	14858046	TT	CC	CC	INTERGENIC		
SNP_51562_A_14872189	NC_021166.1	Ca_Kabuli_Chr07	14872189	CC	AA	AA	URR	101495712	calmodulin-lysine N-methyltransferase
SNP_51563_A_14879919	NC_021166.1	Ca_Kabuli_Chr07	14879919	TT	GG	GG	URR	101496035	multisite-specific tRNA:(cytosine-C(5))-methyltransferase trm4b
SNP_51564_A_14882085	NC_021166.1	Ca_Kabuli_Chr07	14882085	CC	TT	TT	INTERGENIC		
SNP_51566_A_14956181	NC_021166.1	Ca_Kabuli_Chr07	14956181	CC	TT	TT	INTERGENIC		
SNP_51567_A_14980843	NC_021166.1	Ca_Kabuli_Chr07	14980843	GG	AA	AA	DRR	101498990	uncharacterized LOC101498990
SNP_51569_A_15019062	NC_021166.1	Ca_Kabuli_Chr07	15019062	CC	TT	TT	DRR	101499932	cell cycle checkpoint protein RAD17
SNP_51570_A_15031527	NC_021166.1	Ca_Kabuli_Chr07	15031527	AA	TT	TT	URR	101500273	rac-like GTP-binding protein RHO1
SNP_51571_A_15037796	NC_021166.1	Ca_Kabuli_Chr07	15037796	AA	CC	CC	INTERGENIC		
SNP_51572_A_15037814	NC_021166.1	Ca_Kabuli_Chr07	15037814	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51573_A_15037821	NC_021166.1	Ca_Kabuli_Chr07	15037821	CC	TT	TT	INTERGENIC		
SNP_51574_A_15071515	NC_021166.1	Ca_Kabuli_Chr07	15071515	AA	GG	GG	URR	101503338	protein MID1-COMPLEMENTING ACTIVITY 1-like
SNP_51575_A_15071533	NC_021166.1	Ca_Kabuli_Chr07	15071533	AA	GG	GG	URR	101503338	protein MID1-COMPLEMENTING ACTIVITY 1-like
SNP_51576_A_15071730	NC_021166.1	Ca_Kabuli_Chr07	15071730	TT	GG	GG	URR	101503338	protein MID1-COMPLEMENTING ACTIVITY 1-like
SNP_51577_A_15071751	NC_021166.1	Ca_Kabuli_Chr07	15071751	CC	TT	TT	URR	101503338	protein MID1-COMPLEMENTING ACTIVITY 1-like
SNP_51578_A_15088720	NC_021166.1	Ca_Kabuli_Chr07	15088720	CC	TT	TT	INTERGENIC		
SNP_51582_A_15269516	NC_021166.1	Ca_Kabuli_Chr07	15269516	AA	GG	GG	INTERGENIC		
SNP_51583_A_15278316	NC_021166.1	Ca_Kabuli_Chr07	15278316	GG	AA	AA	INTERGENIC		
SNP_51584_A_15278334	NC_021166.1	Ca_Kabuli_Chr07	15278334	CC	TT	TT	INTERGENIC		
SNP_51585_A_15278355	NC_021166.1	Ca_Kabuli_Chr07	15278355	AA	GG	GG	INTERGENIC		
SNP_51586_A_15278397	NC_021166.1	Ca_Kabuli_Chr07	15278397	AA	GG	GG	INTERGENIC		
SNP_51587_A_15278407	NC_021166.1	Ca_Kabuli_Chr07	15278407	GG	TT	TT	INTERGENIC		
SNP_51589_A_15303037	NC_021166.1	Ca_Kabuli_Chr07	15303037	TT	CC	CC	INTERGENIC		
SNP_51590_A_15303058	NC_021166.1	Ca_Kabuli_Chr07	15303058	TT	CC	CC	INTERGENIC		
SNP_51591_A_15303078	NC_021166.1	Ca_Kabuli_Chr07	15303078	AA	GG	GG	INTERGENIC		
SNP_51592_A_15303485	NC_021166.1	Ca_Kabuli_Chr07	15303485	GG	AA	AA	INTERGENIC		
SNP_51593_A_15304957	NC_021166.1	Ca_Kabuli_Chr07	15304957	AA	GG	GG	INTERGENIC		
SNP_51594_A_15305188	NC_021166.1	Ca_Kabuli_Chr07	15305188	CC	TT	TT	INTERGENIC		
SNP_51595_A_15305213	NC_021166.1	Ca_Kabuli_Chr07	15305213	CC	AA	AA	INTERGENIC		
SNP_51596_A_15316602	NC_021166.1	Ca_Kabuli_Chr07	15316602	CC	TT	TT	INTRON	101513650	Unknown function
SNP_51597_A_15325858	NC_021166.1	Ca_Kabuli_Chr07	15325858	GG	AA	AA	INTRON	101513650	Unknown function
SNP_51599_A_15325894	NC_021166.1	Ca_Kabuli_Chr07	15325894	AA	GG	GG	INTRON	101513650	Unknown function

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SNP_51600_A_15325907	NC_021166.1	Ca_Kabuli_Chr07	15325907	CC	TT	TT	INTRON	101513650	Unknown function
SNP_51601_A_15325909	NC_021166.1	Ca_Kabuli_Chr07	15325909	TT	GG	GG	INTRON	101513650	Unknown function
SNP_51602_A_15325913	NC_021166.1	Ca_Kabuli_Chr07	15325913	AA	GG	GG	INTRON	101513650	Unknown function
SNP_51603_A_15325918	NC_021166.1	Ca_Kabuli_Chr07	15325918	AA	GG	GG	INTRON	101513650	Unknown function
SNP_51604_A_15325921	NC_021166.1	Ca_Kabuli_Chr07	15325921	AA	GG	GG	INTRON	101513650	Unknown function
SNP_51605_A_15372164	NC_021166.1	Ca_Kabuli_Chr07	15372164	GG	AA	AA	DRR	101510421	uncharacterized LOC101510421
SNP_51606_A_15385013	NC_021166.1	Ca_Kabuli_Chr07	15385013	CC	TT	TT	INTERGENIC		
SNP_51610_A_15434686	NC_021166.1	Ca_Kabuli_Chr07	15434686	CC	TT	TT	INTERGENIC		
SNP_51612_A_15488426	NC_021166.1	Ca_Kabuli_Chr07	15488426	CC	TT	TT	INTERGENIC		
SNP_51613_A_15488445	NC_021166.1	Ca_Kabuli_Chr07	15488445	GG	AA	AA	INTERGENIC		
SNP_51615_A_15518760	NC_021166.1	Ca_Kabuli_Chr07	15518760	AA	GG	GG	INTERGENIC		
SNP_51616_A_15520942	NC_021166.1	Ca_Kabuli_Chr07	15520942	TT	CC	CC	INTERGENIC		
SNP_51617_A_15521137	NC_021166.1	Ca_Kabuli_Chr07	15521137	CC	TT	TT	INTERGENIC		
SNP_51618_A_15521155	NC_021166.1	Ca_Kabuli_Chr07	15521155	TT	CC	CC	INTERGENIC		
SNP_51619_A_15521191	NC_021166.1	Ca_Kabuli_Chr07	15521191	TT	CC	CC	INTERGENIC		
SNP_51620_A_15521198	NC_021166.1	Ca_Kabuli_Chr07	15521198	GG	CC	CC	INTERGENIC		
SNP_51621_A_15521208	NC_021166.1	Ca_Kabuli_Chr07	15521208	TT	CC	CC	INTERGENIC		
SNP_51622_A_15528388	NC_021166.1	Ca_Kabuli_Chr07	15528388	GG	TT	TT	DRR	101512996	probable acyl-activating enzyme 2
SNP_51623_A_15580193	NC_021166.1	Ca_Kabuli_Chr07	15580193	TT	CC	CC	INTERGENIC		
SNP_51625_A_15626861	NC_021166.1	Ca_Kabuli_Chr07	15626861	CC	TT	TT	URR	101515162	ubiquitin domain-containing protein DSK2b-like
SNP_51626_A_15646058	NC_021166.1	Ca_Kabuli_Chr07	15646058	CC	AA	AA	INTERGENIC		
SNP_51627_A_15646067	NC_021166.1	Ca_Kabuli_Chr07	15646067	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51628_A_15646092	NC_021166.1	Ca_Kabuli_Chr07	15646092	CC	TT	TT	INTERGENIC		
SNP_51630_A_15653308	NC_021166.1	Ca_Kabuli_Chr07	15653308	GG	CC	CC	INTERGENIC		
SNP_51632_A_15676621	NC_021166.1	Ca_Kabuli_Chr07	15676621	TT	GG	GG	INTERGENIC		
SNP_51633_A_15687987	NC_021166.1	Ca_Kabuli_Chr07	15687987	AA	CC	CC	INTERGENIC		
SNP_51635_A_15709771	NC_021166.1	Ca_Kabuli_Chr07	15709771	GG	AA	AA	INTERGENIC		
SNP_51636_A_15734925	NC_021166.1	Ca_Kabuli_Chr07	15734925	CC	TT	TT	URR	101490335	heterogeneous nuclear ribonucleoprotein F
SNP_51637_A_15734930	NC_021166.1	Ca_Kabuli_Chr07	15734930	CC	TT	TT	URR	101490335	heterogeneous nuclear ribonucleoprotein F
SNP_51638_A_15770698	NC_021166.1	Ca_Kabuli_Chr07	15770698	AA	TT	TT	INTERGENIC		
SNP_51639_A_15773299	NC_021166.1	Ca_Kabuli_Chr07	15773299	CC	TT	TT	INTERGENIC		
SNP_51640_A_15821503	NC_021166.1	Ca_Kabuli_Chr07	15821503	TT	CC	CC	INTERGENIC		
SNP_51641_A_15825373	NC_021166.1	Ca_Kabuli_Chr07	15825373	CC	GG	GG	DRR	101494413	PCTP-like protein
SNP_51642_A_15825383	NC_021166.1	Ca_Kabuli_Chr07	15825383	CC	GG	GG	DRR	101494413	PCTP-like protein
SNP_51643_A_15825409	NC_021166.1	Ca_Kabuli_Chr07	15825409	GG	TT	TT	DRR	101494413	PCTP-like protein
SNP_51644_A_15828080	NC_021166.1	Ca_Kabuli_Chr07	15828080	AA	CC	CC	DRR	101515608	uncharacterized LOC101515608
SNP_51645_A_15841195	NC_021166.1	Ca_Kabuli_Chr07	15841195	CC	GG	GG	INTERGENIC		
SNP_51646_A_15841293	NC_021166.1	Ca_Kabuli_Chr07	15841293	TT	CC	CC	INTERGENIC		
SNP_51648_A_15841396	NC_021166.1	Ca_Kabuli_Chr07	15841396	TT	GG	GG	INTERGENIC		
SNP_51649_A_15841442	NC_021166.1	Ca_Kabuli_Chr07	15841442	TT	AA	AA	INTERGENIC		
SNP_51650_A_15861841	NC_021166.1	Ca_Kabuli_Chr07	15861841	GG	AA	AA	URR	101495056	glutamate receptor 3.6-like
SNP_51651_A_15877130	NC_021166.1	Ca_Kabuli_Chr07	15877130	CC	TT	TT	INTERGENIC		
SNP_51652_A_15896962	NC_021166.1	Ca_Kabuli_Chr07	15896962	AA	TT	TT	DOWNSTREAM	DIS3	Unknown function
SNP_51653_A_15896977	NC_021166.1	Ca_Kabuli_Chr07	15896977	TT	AA	AA	DOWNSTREAM	DIS3	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51655_A_15969831	NC_021166.1	Ca_Kabuli_Chr07	15969831	TT	CC	CC	INTERGENIC		
SNP_51656_A_15969867	NC_021166.1	Ca_Kabuli_Chr07	15969867	TT	CC	CC	INTERGENIC		
SNP_51658_A_16026836	NC_021166.1	Ca_Kabuli_Chr07	16026836	GG	AA	AA	INTERGENIC		
SNP_51660_A_16080874	NC_021166.1	Ca_Kabuli_Chr07	16080874	GG	TT	TT	INTERGENIC		
SNP_51661_A_16082044	NC_021166.1	Ca_Kabuli_Chr07	16082044	AA	GG	GG	INTRON	101489680	Unknown function
SNP_51662_A_16082159	NC_021166.1	Ca_Kabuli_Chr07	16082159	AA	GG	GG	INTRON	101489680	Unknown function
SNP_51663_A_16082201	NC_021166.1	Ca_Kabuli_Chr07	16082201	CC	GG	GG	INTRON	101489680	Unknown function
SNP_51664_A_16082243	NC_021166.1	Ca_Kabuli_Chr07	16082243	AA	GG	GG	INTRON	101489680	Unknown function
SNP_51665_A_16082251	NC_021166.1	Ca_Kabuli_Chr07	16082251	TT	CC	CC	SYNONYMOUS_CODING	101489680	Unknown function
SNP_51666_A_16082331	NC_021166.1	Ca_Kabuli_Chr07	16082331	TT	GG	GG	NON_SYNONYMOUS_CODING	101489680	Unknown function
SNP_51667_A_16082332	NC_021166.1	Ca_Kabuli_Chr07	16082332	GG	AA	AA	SYNONYMOUS_CODING	101489680	Unknown function
SNP_51668_A_16082345	NC_021166.1	Ca_Kabuli_Chr07	16082345	GG	AA	AA	NON_SYNONYMOUS_CODING	101489680	Unknown function
SNP_51669_A_16082355	NC_021166.1	Ca_Kabuli_Chr07	16082355	AA	GG	GG	SYNONYMOUS_CODING	101489680	Unknown function
SNP_51670_A_16082356	NC_021166.1	Ca_Kabuli_Chr07	16082356	TT	CC	CC	SYNONYMOUS_CODING	101489680	Unknown function
SNP_51671_A_16099663	NC_021166.1	Ca_Kabuli_Chr07	16099663	AA	GG	GG	INTERGENIC		
SNP_51672_A_16099885	NC_021166.1	Ca_Kabuli_Chr07	16099885	TT	AA	AA	INTERGENIC		
SNP_51673_A_16099931	NC_021166.1	Ca_Kabuli_Chr07	16099931	CC	TT	TT	INTERGENIC		
SNP_51674_A_16099952	NC_021166.1	Ca_Kabuli_Chr07	16099952	CC	AA	AA	INTERGENIC		
SNP_51675_A_16099958	NC_021166.1	Ca_Kabuli_Chr07	16099958	AA	TT	TT	INTERGENIC		
SNP_51677_A_16162070	NC_021166.1	Ca_Kabuli_Chr07	16162070	GG	AA	AA	INTERGENIC		
SNP_51678_A_16185612	NC_021166.1	Ca_Kabuli_Chr07	16185612	CC	TT	TT	INTERGENIC		
SNP_51679_A_16186768	NC_021166.1	Ca_Kabuli_Chr07	16186768	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51680_A_16186775	NC_021166.1	Ca_Kabuli_Chr07	16186775	CC	TT	TT	INTERGENIC		
SNP_51682_A_16252229	NC_021166.1	Ca_Kabuli_Chr07	16252229	CC	TT	TT	INTERGENIC		
SNP_51683_A_16283311	NC_021166.1	Ca_Kabuli_Chr07	16283311	AA	GG	GG	INTERGENIC		
SNP_51684_A_16306601	NC_021166.1	Ca_Kabuli_Chr07	16306601	TT	CC	CC	URR	101504109	DNA-directed RNA polymerase II subunit 4
SNP_51686_A_16372241	NC_021166.1	Ca_Kabuli_Chr07	16372241	TT	GG	GG	INTRON	101505927	abscisic acid 8'-hydroxylase 1-like
SNP_51687_A_16375751	NC_021166.1	Ca_Kabuli_Chr07	16375751	GG	TT	TT	URR	101505927	abscisic acid 8'-hydroxylase 1-like
SNP_51691_A_16456849	NC_021166.1	Ca_Kabuli_Chr07	16456849	CC	TT	TT	DRR	101507233	pentatricopeptide repeat-containing protein At1g77360, mitochondrial-like
SNP_51692_A_16475464	NC_021166.1	Ca_Kabuli_Chr07	16475464	AA	TT	TT	INTERGENIC		
SNP_51693_A_16475465	NC_021166.1	Ca_Kabuli_Chr07	16475465	AA	GG	GG	INTERGENIC		
SNP_51695_A_16475604	NC_021166.1	Ca_Kabuli_Chr07	16475604	AA	GG	GG	INTERGENIC		
SNP_51696_A_16503335	NC_021166.1	Ca_Kabuli_Chr07	16503335	AA	CC	CC	URR	101490655	inositol transporter 1-like
SNP_51697_A_16523916	NC_021166.1	Ca_Kabuli_Chr07	16523916	AA	GG	GG	INTERGENIC		
SNP_51698_A_16524080	NC_021166.1	Ca_Kabuli_Chr07	16524080	CC	TT	TT	INTERGENIC		
SNP_51699_A_16524160	NC_021166.1	Ca_Kabuli_Chr07	16524160	CC	TT	TT	INTERGENIC		
SNP_51700_A_16524165	NC_021166.1	Ca_Kabuli_Chr07	16524165	AA	GG	GG	INTERGENIC		
SNP_51701_A_16524254	NC_021166.1	Ca_Kabuli_Chr07	16524254	GG	TT	TT	INTERGENIC		
SNP_51702_A_16524383	NC_021166.1	Ca_Kabuli_Chr07	16524383	AA	GG	GG	INTERGENIC		
SNP_51703_A_16524388	NC_021166.1	Ca_Kabuli_Chr07	16524388	TT	GG	GG	INTERGENIC		
SNP_51704_A_16524489	NC_021166.1	Ca_Kabuli_Chr07	16524489	GG	AA	AA	INTERGENIC		
SNP_51705_A_16543826	NC_021166.1	Ca_Kabuli_Chr07	16543826	GG	AA	AA	INTERGENIC		
SNP_51706_A_16544119	NC_021166.1	Ca_Kabuli_Chr07	16544119	CC	TT	TT	INTERGENIC		
SNP_51707_A_16544245	NC_021166.1	Ca_Kabuli_Chr07	16544245	TT	CC	CC	INTERGENIC		

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SNP_51708_A_16544264	NC_021166.1	Ca_Kabuli_Chr07	16544264	GG	AA	AA	INTERGENIC		
SNP_51709_A_16544269	NC_021166.1	Ca_Kabuli_Chr07	16544269	TT	CC	CC	INTERGENIC		
SNP_51710_A_16548652	NC_021166.1	Ca_Kabuli_Chr07	16548652	CC	AA	AA	DRR	101503012	inositol transporter 1-like
SNP_51712_A_16548696	NC_021166.1	Ca_Kabuli_Chr07	16548696	GG	AA	AA	DRR	101503012	inositol transporter 1-like
SNP_51713_A_16548726	NC_021166.1	Ca_Kabuli_Chr07	16548726	CC	AA	AA	DRR	101503012	inositol transporter 1-like
SNP_51714_A_16548766	NC_021166.1	Ca_Kabuli_Chr07	16548766	GG	AA	AA	DRR	101503012	inositol transporter 1-like
SNP_51715_A_16548768	NC_021166.1	Ca_Kabuli_Chr07	16548768	AA	GG	GG	DRR	101503012	inositol transporter 1-like
SNP_51716_A_16548780	NC_021166.1	Ca_Kabuli_Chr07	16548780	AA	GG	GG	DRR	101503012	inositol transporter 1-like
SNP_51717_A_16548783	NC_021166.1	Ca_Kabuli_Chr07	16548783	GG	AA	AA	DRR	101503012	inositol transporter 1-like
SNP_51718_A_16560929	NC_021166.1	Ca_Kabuli_Chr07	16560929	CC	TT	TT	DRR	101491804	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2-like
SNP_51719_A_16568650	NC_021166.1	Ca_Kabuli_Chr07	16568650	TT	CC	CC	INTERGENIC		
SNP_51720_A_16597803	NC_021166.1	Ca_Kabuli_Chr07	16597803	GG	AA	AA	URR	101493258	pectin acetyltransferase 8-like
SNP_51722_A_16612516	NC_021166.1	Ca_Kabuli_Chr07	16612516	AA	TT	TT	INTERGENIC		
SNP_51723_A_16615940	NC_021166.1	Ca_Kabuli_Chr07	16615940	GG	AA	AA	INTERGENIC		
SNP_51724_A_16630785	NC_021166.1	Ca_Kabuli_Chr07	16630785	TT	CC	CC	URR	101496265	uncharacterized LOC101496265
SNP_51725_A_16650363	NC_021166.1	Ca_Kabuli_Chr07	16650363	AA	TT	TT	URR	101496915	60S ribosomal protein L13-1-like
SNP_51726_A_16650364	NC_021166.1	Ca_Kabuli_Chr07	16650364	GG	AA	AA	URR	101496915	60S ribosomal protein L13-1-like
SNP_51727_A_16651401	NC_021166.1	Ca_Kabuli_Chr07	16651401	AA	CC	CC	INTERGENIC		
SNP_51728_A_16652122	NC_021166.1	Ca_Kabuli_Chr07	16652122	TT	AA	AA	INTERGENIC		
SNP_51729_A_16652445	NC_021166.1	Ca_Kabuli_Chr07	16652445	TT	CC	CC	INTERGENIC		
SNP_51730_A_16654598	NC_021166.1	Ca_Kabuli_Chr07	16654598	TT	AA	AA	INTERGENIC		
SNP_51731_A_16700006	NC_021166.1	Ca_Kabuli_Chr07	16700006	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51732_A_16718654	NC_021166.1	Ca_Kabuli_Chr07	16718654	GG	AA	AA	URR	101504646	Unknown function
SNP_51733_A_16743456	NC_021166.1	Ca_Kabuli_Chr07	16743456	CC	TT	TT	INTERGENIC		
SNP_51734_A_16753114	NC_021166.1	Ca_Kabuli_Chr07	16753114	TT	CC	CC	INTERGENIC		
SNP_51735_A_16879767	NC_021166.1	Ca_Kabuli_Chr07	16879767	CC	TT	TT	INTERGENIC		
SNP_51736_A_16895464	NC_021166.1	Ca_Kabuli_Chr07	16895464	CC	TT	TT	INTRON	101500275	uncharacterized LOC101500275
SNP_51737_A_16895522	NC_021166.1	Ca_Kabuli_Chr07	16895522	TT	CC	CC	INTRON	101500275	uncharacterized LOC101500275
SNP_51738_A_16895523	NC_021166.1	Ca_Kabuli_Chr07	16895523	AA	GG	GG	INTRON	101500275	uncharacterized LOC101500275
SNP_51739_A_16895528	NC_021166.1	Ca_Kabuli_Chr07	16895528	GG	CC	CC	INTRON	101500275	uncharacterized LOC101500275
SNP_51740_A_16895539	NC_021166.1	Ca_Kabuli_Chr07	16895539	AA	GG	GG	INTRON	101500275	uncharacterized LOC101500275
SNP_51741_A_16895914	NC_021166.1	Ca_Kabuli_Chr07	16895914	TT	CC	CC	URR	101500275	uncharacterized LOC101500275
SNP_51742_A_16895961	NC_021166.1	Ca_Kabuli_Chr07	16895961	AA	GG	GG	URR	101500275	uncharacterized LOC101500275
SNP_51743_A_16917607	NC_021166.1	Ca_Kabuli_Chr07	16917607	AA	CC	CC	INTRON	101506240	alpha-glucan water dikinase, chloroplastic
SNP_51744_A_16939881	NC_021166.1	Ca_Kabuli_Chr07	16939881	GG	AA	AA	INTERGENIC		
SNP_51746_A_16941733	NC_021166.1	Ca_Kabuli_Chr07	16941733	AA	GG	GG	INTERGENIC		
SNP_51747_A_16941742	NC_021166.1	Ca_Kabuli_Chr07	16941742	TT	GG	GG	INTERGENIC		
SNP_51748_A_16951500	NC_021166.1	Ca_Kabuli_Chr07	16951500	TT	AA	AA	INTRON	101506906	high affinity nitrate transporter 2.5
SNP_51749_A_16972812	NC_021166.1	Ca_Kabuli_Chr07	16972812	TT	CC	CC	INTERGENIC		
SNP_51750_A_16988923	NC_021166.1	Ca_Kabuli_Chr07	16988923	CC	TT	TT	URR	101500591	Unknown function
SNP_51751_A_16994093	NC_021166.1	Ca_Kabuli_Chr07	16994093	CC	GG	GG	INTERGENIC		
SNP_51752_A_17006032	NC_021166.1	Ca_Kabuli_Chr07	17006032	AA	GG	GG	INTERGENIC		
SNP_51753_A_17007001	NC_021166.1	Ca_Kabuli_Chr07	17007001	CC	TT	TT	INTERGENIC		
SNP_51754_A_17097814	NC_021166.1	Ca_Kabuli_Chr07	17097814	GG	TT	TT	INTRON	101508711	protein PHYLO, chloroplastic

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SNP_51755_A_17117805	NC_021166.1	Ca_Kabuli_Chr07	17117805	GG	AA	AA	INTERGENIC		
SNP_51756_A_17130341	NC_021166.1	Ca_Kabuli_Chr07	17130341	CC	TT	TT	INTERGENIC		
SNP_51757_A_17133012	NC_021166.1	Ca_Kabuli_Chr07	17133012	AA	TT	TT	INTERGENIC		
SNP_51761_A_17173582	NC_021166.1	Ca_Kabuli_Chr07	17173582	GG	AA	AA	URR	101501231	uncharacterized LOC101501231
SNP_51762_A_17203637	NC_021166.1	Ca_Kabuli_Chr07	17203637	TT	CC	CC	INTERGENIC		
SNP_51763_A_17203647	NC_021166.1	Ca_Kabuli_Chr07	17203647	AA	CC	CC	INTERGENIC		
SNP_51764_A_17203774	NC_021166.1	Ca_Kabuli_Chr07	17203774	GG	CC	CC	INTERGENIC		
SNP_51765_A_17207120	NC_021166.1	Ca_Kabuli_Chr07	17207120	CC	AA	AA	INTERGENIC		
SNP_51766_A_17207154	NC_021166.1	Ca_Kabuli_Chr07	17207154	TT	CC	CC	INTERGENIC		
SNP_51767_A_17207232	NC_021166.1	Ca_Kabuli_Chr07	17207232	TT	GG	GG	INTERGENIC		
SNP_51768_A_17207258	NC_021166.1	Ca_Kabuli_Chr07	17207258	TT	GG	GG	INTERGENIC		
SNP_51769_A_17207268	NC_021166.1	Ca_Kabuli_Chr07	17207268	AA	GG	GG	INTERGENIC		
SNP_51770_A_17213279	NC_021166.1	Ca_Kabuli_Chr07	17213279	AA	TT	TT	INTERGENIC		
SNP_51771_A_17216643	NC_021166.1	Ca_Kabuli_Chr07	17216643	AA	TT	TT	INTERGENIC		
SNP_51772_A_17218240	NC_021166.1	Ca_Kabuli_Chr07	17218240	TT	CC	CC	INTERGENIC		
SNP_51773_A_17219458	NC_021166.1	Ca_Kabuli_Chr07	17219458	TT	AA	AA	INTERGENIC		
SNP_51774_A_17219460	NC_021166.1	Ca_Kabuli_Chr07	17219460	TT	AA	AA	INTERGENIC		
SNP_51775_A_17219468	NC_021166.1	Ca_Kabuli_Chr07	17219468	TT	CC	CC	INTERGENIC		
SNP_51776_A_17244927	NC_021166.1	Ca_Kabuli_Chr07	17244927	CC	AA	AA	INTERGENIC		
SNP_51777_A_17269256	NC_021166.1	Ca_Kabuli_Chr07	17269256	TT	CC	CC	INTERGENIC		
SNP_51778_A_17269265	NC_021166.1	Ca_Kabuli_Chr07	17269265	CC	TT	TT	INTERGENIC		
SNP_51779_A_17269528	NC_021166.1	Ca_Kabuli_Chr07	17269528	GG	AA	AA	INTERGENIC		

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SNP_51780_A_17275403	NC_021166.1	Ca_Kabuli_Chr07	17275403	GG	AA	AA	INTERGENIC			
SNP_51781_A_17285609	NC_021166.1	Ca_Kabuli_Chr07	17285609	CC	AA	AA	INTERGENIC			
SNP_51782_A_17344436	NC_021166.1	Ca_Kabuli_Chr07	17344436	GG	AA	AA	INTERGENIC			
SNP_51783_A_17372032	NC_021166.1	Ca_Kabuli_Chr07	17372032	CC	AA	AA	INTERGENIC			
SNP_51784_A_17372125	NC_021166.1	Ca_Kabuli_Chr07	17372125	TT	AA	AA	INTERGENIC			
SNP_51785_A_17372144	NC_021166.1	Ca_Kabuli_Chr07	17372144	GG	AA	AA	INTERGENIC			
SNP_51786_A_17372147	NC_021166.1	Ca_Kabuli_Chr07	17372147	TT	CC	CC	INTERGENIC			
SNP_51787_A_17374519	NC_021166.1	Ca_Kabuli_Chr07	17374519	CC	TT	TT	INTERGENIC			
SNP_51788_A_17374585	NC_021166.1	Ca_Kabuli_Chr07	17374585	CC	AA	AA	INTERGENIC			
SNP_51790_A_17375211	NC_021166.1	Ca_Kabuli_Chr07	17375211	AA	CC	CC	INTERGENIC			
SNP_51791_A_17379370	NC_021166.1	Ca_Kabuli_Chr07	17379370	TT	CC	CC	DRR	101502184	defensin-like protein	
SNP_51792_A_17395669	NC_021166.1	Ca_Kabuli_Chr07	17395669	GG	TT	TT	INTERGENIC			
SNP_51793_A_17395746	NC_021166.1	Ca_Kabuli_Chr07	17395746	CC	TT	TT	INTERGENIC			
SNP_51794_A_17410738	NC_021166.1	Ca_Kabuli_Chr07	17410738	AA	CC	CC	INTERGENIC			
SNP_51795_A_17418411	NC_021166.1	Ca_Kabuli_Chr07	17418411	CC	TT	TT	INTERGENIC			
SNP_51796_A_17451461	NC_021166.1	Ca_Kabuli_Chr07	17451461	GG	AA	AA	INTERGENIC			
SNP_51797_A_17451464	NC_021166.1	Ca_Kabuli_Chr07	17451464	TT	CC	CC	INTERGENIC			
SNP_51798_A_17460328	NC_021166.1	Ca_Kabuli_Chr07	17460328	CC	AA	AA	INTERGENIC			
SNP_51799_A_17472970	NC_021166.1	Ca_Kabuli_Chr07	17472970	AA	GG	GG	INTERGENIC			
SNP_51800_A_17508081	NC_021166.1	Ca_Kabuli_Chr07	17508081	TT	CC	CC	INTERGENIC			
SNP_51801_A_17662755	NC_021166.1	Ca_Kabuli_Chr07	17662755	TT	GG	GG	INTERGENIC			
SNP_51802_A_17841610	NC_021166.1	Ca_Kabuli_Chr07	17841610	CC	TT	TT	INTERGENIC			

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SNP_51803_A_17858807	NC_021166.1	Ca_Kabuli_Chr07	17858807	GG	AA	AA	NON_SYNONYMOUS_CODING	101505067	Unknown function
SNP_51804_A_17869145	NC_021166.1	Ca_Kabuli_Chr07	17869145	CC	TT	TT	DRR	101498120	uncharacterized LOC101498120
SNP_51805_A_17869189	NC_021166.1	Ca_Kabuli_Chr07	17869189	TT	CC	CC	DRR	101498120	uncharacterized LOC101498120
SNP_51806_A_17869299	NC_021166.1	Ca_Kabuli_Chr07	17869299	TT	CC	CC	DRR	101498120	uncharacterized LOC101498120
SNP_51807_A_17869631	NC_021166.1	Ca_Kabuli_Chr07	17869631	AA	TT	TT	DRR	101498120	uncharacterized LOC101498120
SNP_51808_A_17869634	NC_021166.1	Ca_Kabuli_Chr07	17869634	TT	CC	CC	DRR	101498120	uncharacterized LOC101498120
SNP_51809_A_17874951	NC_021166.1	Ca_Kabuli_Chr07	17874951	GG	TT	TT	URR	101498120	uncharacterized LOC101498120
SNP_51810_A_17875009	NC_021166.1	Ca_Kabuli_Chr07	17875009	TT	CC	CC	URR	101498120	uncharacterized LOC101498120
SNP_51811_A_17875325	NC_021166.1	Ca_Kabuli_Chr07	17875325	AA	GG	GG	URR	101498120	uncharacterized LOC101498120
SNP_51812_A_17875331	NC_021166.1	Ca_Kabuli_Chr07	17875331	AA	GG	GG	URR	101498120	uncharacterized LOC101498120
SNP_51813_A_17879955	NC_021166.1	Ca_Kabuli_Chr07	17879955	AA	TT	TT	INTERGENIC		
SNP_51814_A_17879998	NC_021166.1	Ca_Kabuli_Chr07	17879998	AA	GG	GG	INTERGENIC		
SNP_51815_A_17880234	NC_021166.1	Ca_Kabuli_Chr07	17880234	TT	CC	CC	INTERGENIC		
SNP_51816_A_17880237	NC_021166.1	Ca_Kabuli_Chr07	17880237	GG	AA	AA	INTERGENIC		
SNP_51817_A_17898460	NC_021166.1	Ca_Kabuli_Chr07	17898460	AA	CC	CC	INTERGENIC		
SNP_51818_A_17902038	NC_021166.1	Ca_Kabuli_Chr07	17902038	AA	GG	GG	INTERGENIC		
SNP_51819_A_17902047	NC_021166.1	Ca_Kabuli_Chr07	17902047	GG	TT	TT	INTERGENIC		
SNP_51820_A_17902057	NC_021166.1	Ca_Kabuli_Chr07	17902057	GG	AA	AA	INTERGENIC		
SNP_51821_A_17922296	NC_021166.1	Ca_Kabuli_Chr07	17922296	AA	GG	CC	URR	101506042	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_51823_A_17987221	NC_021166.1	Ca_Kabuli_Chr07	17987221	TT	AA	AA	INTERGENIC		
SNP_51824_A_17997471	NC_021166.1	Ca_Kabuli_Chr07	17997471	GG	AA	AA	INTRON	101498992	probable leucine-rich repeat receptor-like protein kinase At5g49770
SNP_51825_A_18007004	NC_021166.1	Ca_Kabuli_Chr07	18007004	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_51826_A_18007184	NC_021166.1	Ca_Kabuli_Chr07	18007184	GG	TT	TT	INTERGENIC			
SNP_51827_A_18007302	NC_021166.1	Ca_Kabuli_Chr07	18007302	AA	GG	GG	INTERGENIC			
SNP_51828_A_18007376	NC_021166.1	Ca_Kabuli_Chr07	18007376	CC	TT	TT	INTERGENIC			
SNP_51829_A_18007484	NC_021166.1	Ca_Kabuli_Chr07	18007484	AA	GG	GG	INTERGENIC			
SNP_51830_A_18007509	NC_021166.1	Ca_Kabuli_Chr07	18007509	GG	AA	AA	INTERGENIC			
SNP_51831_A_18007525	NC_021166.1	Ca_Kabuli_Chr07	18007525	TT	CC	CC	INTERGENIC			
SNP_51832_A_18007537	NC_021166.1	Ca_Kabuli_Chr07	18007537	TT	CC	CC	INTERGENIC			
SNP_51833_A_18007798	NC_021166.1	Ca_Kabuli_Chr07	18007798	CC	TT	TT	INTERGENIC			
SNP_51834_A_18007900	NC_021166.1	Ca_Kabuli_Chr07	18007900	AA	GG	GG	INTERGENIC			
SNP_51836_A_18007952	NC_021166.1	Ca_Kabuli_Chr07	18007952	GG	TT	TT	INTERGENIC			
SNP_51837_A_18007965	NC_021166.1	Ca_Kabuli_Chr07	18007965	CC	TT	TT	INTERGENIC			
SNP_51838_A_18024889	NC_021166.1	Ca_Kabuli_Chr07	18024889	TT	CC	CC	INTERGENIC			
SNP_51839_A_18038540	NC_021166.1	Ca_Kabuli_Chr07	18038540	GG	TT	TT	INTERGENIC			
SNP_51841_A_18038552	NC_021166.1	Ca_Kabuli_Chr07	18038552	CC	GG	GG	INTERGENIC			
SNP_51842_A_18054078	NC_021166.1	Ca_Kabuli_Chr07	18054078	CC	TT	TT	INTERGENIC			
SNP_51843_A_18070993	NC_021166.1	Ca_Kabuli_Chr07	18070993	AA	TT	TT	INTERGENIC			
SNP_51844_A_18071005	NC_021166.1	Ca_Kabuli_Chr07	18071005	GG	TT	TT	INTERGENIC			
SNP_51845_A_18071028	NC_021166.1	Ca_Kabuli_Chr07	18071028	AA	GG	GG	INTERGENIC			
SNP_51846_A_18071121	NC_021166.1	Ca_Kabuli_Chr07	18071121	TT	GG	GG	INTERGENIC			
SNP_51847_A_18071159	NC_021166.1	Ca_Kabuli_Chr07	18071159	AA	TT	TT	INTERGENIC			
SNP_51848_A_18071165	NC_021166.1	Ca_Kabuli_Chr07	18071165	GG	CC	CC	INTERGENIC			
SNP_51849_A_18071188	NC_021166.1	Ca_Kabuli_Chr07	18071188	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51850_A_18071197	NC_021166.1	Ca_Kabuli_Chr07	18071197	TT	CC	CC	INTERGENIC		
SNP_51851_A_18071401	NC_021166.1	Ca_Kabuli_Chr07	18071401	CC	AA	AA	INTERGENIC		
SNP_51852_A_18084750	NC_021166.1	Ca_Kabuli_Chr07	18084750	CC	TT	TT	INTERGENIC		
SNP_51853_A_18088218	NC_021166.1	Ca_Kabuli_Chr07	18088218	TT	AA	AA	INTERGENIC		
SNP_51855_A_18125921	NC_021166.1	Ca_Kabuli_Chr07	18125921	CC	TT	TT	INTERGENIC		
SNP_51856_A_18136949	NC_021166.1	Ca_Kabuli_Chr07	18136949	TT	CC	CC	INTERGENIC		
SNP_51857_A_18151654	NC_021166.1	Ca_Kabuli_Chr07	18151654	AA	GG	GG	NON_SYNONYMOUS_CODING	101513850	uncharacterized LOC101513850
SNP_51858_A_18188233	NC_021166.1	Ca_Kabuli_Chr07	18188233	GG	AA	AA	INTERGENIC		
SNP_51859_A_18188451	NC_021166.1	Ca_Kabuli_Chr07	18188451	AA	CC	CC	INTERGENIC		
SNP_51860_A_18198990	NC_021166.1	Ca_Kabuli_Chr07	18198990	GG	AA	AA	DRR	101514197	uncharacterized LOC101514197
SNP_51861_A_18198998	NC_021166.1	Ca_Kabuli_Chr07	18198998	GG	TT	TT	DRR	101514197	uncharacterized LOC101514197
SNP_51862_A_18199007	NC_021166.1	Ca_Kabuli_Chr07	18199007	GG	TT	TT	DRR	101514197	uncharacterized LOC101514197
SNP_51863_A_18199059	NC_021166.1	Ca_Kabuli_Chr07	18199059	GG	AA	AA	SYNONYMOUS_CODING	101514197	uncharacterized LOC101514197
SNP_51864_A_18199084	NC_021166.1	Ca_Kabuli_Chr07	18199084	TT	CC	CC	NON_SYNONYMOUS_CODING	101514197	uncharacterized LOC101514197
SNP_51865_A_18199086	NC_021166.1	Ca_Kabuli_Chr07	18199086	AA	TT	TT	NON_SYNONYMOUS_CODING	101514197	uncharacterized LOC101514197
SNP_51866_A_18211303	NC_021166.1	Ca_Kabuli_Chr07	18211303	GG	AA	AA	INTERGENIC		
SNP_51867_A_18221628	NC_021166.1	Ca_Kabuli_Chr07	18221628	GG	AA	AA	INTERGENIC		
SNP_51868_A_18308123	NC_021166.1	Ca_Kabuli_Chr07	18308123	AA	TT	TT	INTERGENIC		
SNP_51869_A_18308174	NC_021166.1	Ca_Kabuli_Chr07	18308174	AA	GG	GG	INTERGENIC		
SNP_51870_A_18308196	NC_021166.1	Ca_Kabuli_Chr07	18308196	TT	CC	CC	INTERGENIC		
SNP_51871_A_18308363	NC_021166.1	Ca_Kabuli_Chr07	18308363	AA	GG	GG	INTERGENIC		
SNP_51872_A_18332774	NC_021166.1	Ca_Kabuli_Chr07	18332774	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51873_A_18332778	NC_021166.1	Ca_Kabuli_Chr07	18332778	CC	TT	TT	INTERGENIC		
SNP_51874_A_18332792	NC_021166.1	Ca_Kabuli_Chr07	18332792	CC	AA	AA	INTERGENIC		
SNP_51875_A_18332822	NC_021166.1	Ca_Kabuli_Chr07	18332822	CC	TT	TT	INTERGENIC		
SNP_51876_A_18332825	NC_021166.1	Ca_Kabuli_Chr07	18332825	CC	TT	TT	INTERGENIC		
SNP_51878_A_18332831	NC_021166.1	Ca_Kabuli_Chr07	18332831	TT	CC	CC	INTERGENIC		
SNP_51879_A_18332872	NC_021166.1	Ca_Kabuli_Chr07	18332872	GG	AA	AA	INTERGENIC		
SNP_51880_A_18332915	NC_021166.1	Ca_Kabuli_Chr07	18332915	GG	AA	AA	INTERGENIC		
SNP_51881_A_18333209	NC_021166.1	Ca_Kabuli_Chr07	18333209	CC	TT	TT	INTERGENIC		
SNP_51882_A_18343950	NC_021166.1	Ca_Kabuli_Chr07	18343950	CC	TT	TT	INTERGENIC		
SNP_51883_A_18362444	NC_021166.1	Ca_Kabuli_Chr07	18362444	TT	CC	CC	DRR	101488240	uncharacterized LOC101488240
SNP_51884_A_18362477	NC_021166.1	Ca_Kabuli_Chr07	18362477	AA	GG	GG	DRR	101488240	uncharacterized LOC101488240
SNP_51885_A_18362523	NC_021166.1	Ca_Kabuli_Chr07	18362523	TT	AA	AA	DRR	101488240	uncharacterized LOC101488240
SNP_51886_A_18362532	NC_021166.1	Ca_Kabuli_Chr07	18362532	CC	TT	TT	DRR	101488240	uncharacterized LOC101488240
SNP_51887_A_18363240	NC_021166.1	Ca_Kabuli_Chr07	18363240	AA	GG	GG	DRR	101488240	uncharacterized LOC101488240
SNP_51888_A_18363569	NC_021166.1	Ca_Kabuli_Chr07	18363569	TT	CC	CC	NON_SYNONYMOUS_CODING	101488240	uncharacterized LOC101488240
SNP_51889_A_18363622	NC_021166.1	Ca_Kabuli_Chr07	18363622	AA	GG	GG	NON_SYNONYMOUS_CODING	101488240	uncharacterized LOC101488240
SNP_51890_A_18387239	NC_021166.1	Ca_Kabuli_Chr07	18387239	CC	AA	AA	DRR	101510424	pentatricopeptide repeat-containing protein At1g60770-like
SNP_51891_A_18409471	NC_021166.1	Ca_Kabuli_Chr07	18409471	TT	CC	CC	SYNONYMOUS_CODING	101489237	uncharacterized LOC101489237
SNP_51892_A_18409488	NC_021166.1	Ca_Kabuli_Chr07	18409488	AA	GG	GG	NON_SYNONYMOUS_CODING	101489237	uncharacterized LOC101489237
SNP_51893_A_18409517	NC_021166.1	Ca_Kabuli_Chr07	18409517	AA	GG	GG	NON_SYNONYMOUS_CODING	101489237	uncharacterized LOC101489237
SNP_51894_A_18409890	NC_021166.1	Ca_Kabuli_Chr07	18409890	AA	GG	GG	INTRON	101489237	uncharacterized LOC101489237
SNP_51896_A_18436461	NC_021166.1	Ca_Kabuli_Chr07	18436461	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51897_A_18444207	NC_021166.1	Ca_Kabuli_Chr07	18444207	CC	AA	AA	INTERGENIC		
SNP_51898_A_18444217	NC_021166.1	Ca_Kabuli_Chr07	18444217	TT	CC	CC	INTERGENIC		
SNP_51899_A_18444223	NC_021166.1	Ca_Kabuli_Chr07	18444223	TT	GG	GG	INTERGENIC		
SNP_51900_A_18459289	NC_021166.1	Ca_Kabuli_Chr07	18459289	TT	GG	GG	INTERGENIC		
SNP_51901_A_18462115	NC_021166.1	Ca_Kabuli_Chr07	18462115	GG	CC	CC	INTRON	101511280	uncharacterized LOC101511280
SNP_51902_A_18526136	NC_021166.1	Ca_Kabuli_Chr07	18526136	AA	TT	TT	DRR	101512584	protein TRANSPARENT TESTA 12
SNP_51903_A_18539501	NC_021166.1	Ca_Kabuli_Chr07	18539501	CC	TT	TT	INTERGENIC		
SNP_51904_A_18539507	NC_021166.1	Ca_Kabuli_Chr07	18539507	CC	TT	TT	INTERGENIC		
SNP_51905_A_18539567	NC_021166.1	Ca_Kabuli_Chr07	18539567	CC	TT	TT	INTERGENIC		
SNP_51906_A_18539621	NC_021166.1	Ca_Kabuli_Chr07	18539621	AA	GG	GG	INTERGENIC		
SNP_51907_A_18539674	NC_021166.1	Ca_Kabuli_Chr07	18539674	GG	TT	TT	INTERGENIC		
SNP_51908_A_18539689	NC_021166.1	Ca_Kabuli_Chr07	18539689	AA	GG	GG	INTERGENIC		
SNP_51909_A_18539886	NC_021166.1	Ca_Kabuli_Chr07	18539886	TT	CC	CC	INTERGENIC		
SNP_51910_A_18541728	NC_021166.1	Ca_Kabuli_Chr07	18541728	AA	GG	GG	INTERGENIC		
SNP_51911_A_18574447	NC_021166.1	Ca_Kabuli_Chr07	18574447	TT	AA	AA	INTERGENIC		
SNP_51912_A_18587157	NC_021166.1	Ca_Kabuli_Chr07	18587157	AA	GG	GG	INTERGENIC		
SNP_51913_A_18587182	NC_021166.1	Ca_Kabuli_Chr07	18587182	GG	CC	CC	INTERGENIC		
SNP_51914_A_18587223	NC_021166.1	Ca_Kabuli_Chr07	18587223	CC	AA	AA	INTERGENIC		
SNP_51915_A_18587404	NC_021166.1	Ca_Kabuli_Chr07	18587404	GG	AA	AA	INTERGENIC		
SNP_51916_A_18587448	NC_021166.1	Ca_Kabuli_Chr07	18587448	CC	TT	TT	INTERGENIC		
SNP_51917_A_18587466	NC_021166.1	Ca_Kabuli_Chr07	18587466	AA	TT	TT	INTERGENIC		
SNP_51918_A_18587495	NC_021166.1	Ca_Kabuli_Chr07	18587495	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_51919_A_18587510	NC_021166.1	Ca_Kabuli_Chr07	18587510	TT	CC	CC	INTERGENIC			
SNP_51920_A_18587524	NC_021166.1	Ca_Kabuli_Chr07	18587524	CC	TT	TT	INTERGENIC			
SNP_51921_A_18587533	NC_021166.1	Ca_Kabuli_Chr07	18587533	TT	CC	CC	INTERGENIC			
SNP_51922_A_18587546	NC_021166.1	Ca_Kabuli_Chr07	18587546	AA	TT	TT	INTERGENIC			
SNP_51923_A_18587563	NC_021166.1	Ca_Kabuli_Chr07	18587563	TT	CC	CC	INTERGENIC			
SNP_51924_A_18587603	NC_021166.1	Ca_Kabuli_Chr07	18587603	CC	TT	TT	INTERGENIC			
SNP_51925_A_18587607	NC_021166.1	Ca_Kabuli_Chr07	18587607	CC	TT	TT	INTERGENIC			
SNP_51927_A_18587706	NC_021166.1	Ca_Kabuli_Chr07	18587706	GG	AA	AA	INTERGENIC			
SNP_51928_A_18587760	NC_021166.1	Ca_Kabuli_Chr07	18587760	AA	GG	GG	INTERGENIC			
SNP_51929_A_18587763	NC_021166.1	Ca_Kabuli_Chr07	18587763	TT	CC	CC	INTERGENIC			
SNP_51930_A_18587764	NC_021166.1	Ca_Kabuli_Chr07	18587764	GG	CC	CC	INTERGENIC			
SNP_51931_A_18587772	NC_021166.1	Ca_Kabuli_Chr07	18587772	AA	GG	GG	INTERGENIC			
SNP_51933_A_18588046	NC_021166.1	Ca_Kabuli_Chr07	18588046	GG	TT	TT	INTERGENIC			
SNP_51934_A_18588184	NC_021166.1	Ca_Kabuli_Chr07	18588184	AA	TT	TT	INTERGENIC			
SNP_51935_A_18588221	NC_021166.1	Ca_Kabuli_Chr07	18588221	AA	TT	TT	INTERGENIC			
SNP_51936_A_18588341	NC_021166.1	Ca_Kabuli_Chr07	18588341	TT	AA	AA	INTERGENIC			
SNP_51937_A_18588411	NC_021166.1	Ca_Kabuli_Chr07	18588411	TT	AA	AA	INTERGENIC			
SNP_51938_A_18588443	NC_021166.1	Ca_Kabuli_Chr07	18588443	CC	AA	AA	INTERGENIC			
SNP_51939_A_18588451	NC_021166.1	Ca_Kabuli_Chr07	18588451	TT	CC	CC	INTERGENIC			
SNP_51940_A_18588488	NC_021166.1	Ca_Kabuli_Chr07	18588488	AA	CC	CC	INTERGENIC			
SNP_51941_A_18588599	NC_021166.1	Ca_Kabuli_Chr07	18588599	TT	CC	CC	INTERGENIC			
SNP_51942_A_18588642	NC_021166.1	Ca_Kabuli_Chr07	18588642	TT	CC	CC	INTERGENIC			

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SNP_51944_A_18588743	NC_021166.1	Ca_Kabuli_Chr07	18588743	CC	TT	TT	INTERGENIC			
SNP_51945_A_18588753	NC_021166.1	Ca_Kabuli_Chr07	18588753	TT	CC	CC	INTERGENIC			
SNP_51946_A_18588761	NC_021166.1	Ca_Kabuli_Chr07	18588761	TT	CC	CC	INTERGENIC			
SNP_51947_A_18588812	NC_021166.1	Ca_Kabuli_Chr07	18588812	CC	AA	AA	INTERGENIC			
SNP_51949_A_18589037	NC_021166.1	Ca_Kabuli_Chr07	18589037	AA	CC	CC	INTERGENIC			
SNP_51950_A_18589252	NC_021166.1	Ca_Kabuli_Chr07	18589252	CC	TT	TT	INTERGENIC			
SNP_51951_A_18589688	NC_021166.1	Ca_Kabuli_Chr07	18589688	TT	AA	AA	INTERGENIC			
SNP_51952_A_18589701	NC_021166.1	Ca_Kabuli_Chr07	18589701	GG	AA	AA	INTERGENIC			
SNP_51953_A_18589743	NC_021166.1	Ca_Kabuli_Chr07	18589743	GG	AA	AA	INTERGENIC			
SNP_51954_A_18589762	NC_021166.1	Ca_Kabuli_Chr07	18589762	AA	GG	GG	INTERGENIC			
SNP_51955_A_18589764	NC_021166.1	Ca_Kabuli_Chr07	18589764	GG	AA	AA	INTERGENIC			
SNP_51956_A_18589787	NC_021166.1	Ca_Kabuli_Chr07	18589787	TT	CC	CC	INTERGENIC			
SNP_51957_A_18589809	NC_021166.1	Ca_Kabuli_Chr07	18589809	AA	TT	TT	INTERGENIC			
SNP_51958_A_18589838	NC_021166.1	Ca_Kabuli_Chr07	18589838	GG	AA	AA	INTERGENIC			
SNP_51959_A_18589912	NC_021166.1	Ca_Kabuli_Chr07	18589912	AA	GG	GG	INTERGENIC			
SNP_51960_A_18590050	NC_021166.1	Ca_Kabuli_Chr07	18590050	AA	TT	TT	INTERGENIC			
SNP_51961_A_18590096	NC_021166.1	Ca_Kabuli_Chr07	18590096	TT	GG	GG	INTERGENIC			
SNP_51962_A_18590133	NC_021166.1	Ca_Kabuli_Chr07	18590133	AA	GG	GG	INTERGENIC			
SNP_51963_A_18590166	NC_021166.1	Ca_Kabuli_Chr07	18590166	TT	CC	CC	INTERGENIC			
SNP_51964_A_18622104	NC_021166.1	Ca_Kabuli_Chr07	18622104	CC	TT	TT	INTERGENIC			
SNP_51965_A_18653754	NC_021166.1	Ca_Kabuli_Chr07	18653754	AA	TT	TT	INTERGENIC			
SNP_51966_A_18666367	NC_021166.1	Ca_Kabuli_Chr07	18666367	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_51967_A_18681465	NC_021166.1	Ca_Kabuli_Chr07	18681465	CC	TT	TT	INTERGENIC		
SNP_51968_A_18701118	NC_021166.1	Ca_Kabuli_Chr07	18701118	AA	TT	TT	INTERGENIC		
SNP_51969_A_18702880	NC_021166.1	Ca_Kabuli_Chr07	18702880	AA	TT	TT	INTERGENIC		
SNP_51970_A_18730203	NC_021166.1	Ca_Kabuli_Chr07	18730203	AA	TT	TT	INTRON	101491806	GLABRA2 expression modulator-like
SNP_51971_A_18739595	NC_021166.1	Ca_Kabuli_Chr07	18739595	GG	AA	AA	INTERGENIC		
SNP_51972_A_18739713	NC_021166.1	Ca_Kabuli_Chr07	18739713	TT	CC	CC	INTERGENIC		
SNP_51973_A_18739723	NC_021166.1	Ca_Kabuli_Chr07	18739723	AA	TT	TT	INTERGENIC		
SNP_51975_A_18740453	NC_021166.1	Ca_Kabuli_Chr07	18740453	TT	CC	CC	INTERGENIC		
SNP_51976_A_18852410	NC_021166.1	Ca_Kabuli_Chr07	18852410	GG	AA	AA	INTERGENIC		
SNP_51977_A_18899138	NC_021166.1	Ca_Kabuli_Chr07	18899138	TT	CC	CC	INTERGENIC		
SNP_51978_A_18899163	NC_021166.1	Ca_Kabuli_Chr07	18899163	TT	GG	GG	INTERGENIC		
SNP_51979_A_18904699	NC_021166.1	Ca_Kabuli_Chr07	18904699	GG	AA	AA	INTERGENIC		
SNP_51980_A_18904858	NC_021166.1	Ca_Kabuli_Chr07	18904858	TT	AA	AA	INTERGENIC		
SNP_51981_A_18917831	NC_021166.1	Ca_Kabuli_Chr07	18917831	TT	GG	GG	INTERGENIC		
SNP_51982_A_18918110	NC_021166.1	Ca_Kabuli_Chr07	18918110	GG	AA	AA	INTERGENIC		
SNP_51984_A_18918187	NC_021166.1	Ca_Kabuli_Chr07	18918187	GG	AA	AA	INTERGENIC		
SNP_51985_A_18918206	NC_021166.1	Ca_Kabuli_Chr07	18918206	AA	CC	CC	INTERGENIC		
SNP_51987_A_18923208	NC_021166.1	Ca_Kabuli_Chr07	18923208	GG	TT	TT	INTERGENIC		
SNP_51989_A_18930931	NC_021166.1	Ca_Kabuli_Chr07	18930931	AA	GG	GG	INTERGENIC		
SNP_51990_A_18933094	NC_021166.1	Ca_Kabuli_Chr07	18933094	GG	AA	AA	INTERGENIC		
SNP_51991_A_18933240	NC_021166.1	Ca_Kabuli_Chr07	18933240	TT	CC	CC	INTERGENIC		
SNP_51992_A_18935333	NC_021166.1	Ca_Kabuli_Chr07	18935333	TT	AA	AA	INTERGENIC		

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SNP_51993_A_18935363	NC_021166.1	Ca_Kabuli_Chr07	18935363	GG	AA	AA	INTERGENIC		
SNP_51994_A_18935480	NC_021166.1	Ca_Kabuli_Chr07	18935480	AA	TT	TT	INTERGENIC		
SNP_51995_A_18935486	NC_021166.1	Ca_Kabuli_Chr07	18935486	TT	AA	AA	INTERGENIC		
SNP_51996_A_18935507	NC_021166.1	Ca_Kabuli_Chr07	18935507	TT	CC	CC	INTERGENIC		
SNP_51997_A_18938170	NC_021166.1	Ca_Kabuli_Chr07	18938170	AA	TT	TT	INTERGENIC		
SNP_51998_A_18967441	NC_021166.1	Ca_Kabuli_Chr07	18967441	AA	GG	GG	DRR	101410603	transfer RNA serine (anticodon GCU)
SNP_51999_A_18975081	NC_021166.1	Ca_Kabuli_Chr07	18975081	AA	TT	TT	INTERGENIC		
SNP_52000_A_18982274	NC_021166.1	Ca_Kabuli_Chr07	18982274	GG	AA	AA	INTERGENIC		
SNP_52001_A_18982279	NC_021166.1	Ca_Kabuli_Chr07	18982279	TT	CC	CC	INTERGENIC		
SNP_52002_A_18984450	NC_021166.1	Ca_Kabuli_Chr07	18984450	AA	GG	GG	INTERGENIC		
SNP_52003_A_18985978	NC_021166.1	Ca_Kabuli_Chr07	18985978	GG	AA	AA	INTERGENIC		
SNP_52004_A_19014572	NC_021166.1	Ca_Kabuli_Chr07	19014572	AA	CC	CC	NON_SYNONYMOUS_CODING	101494415	kinesin-like protein KCA2
SNP_52005_A_19025071	NC_021166.1	Ca_Kabuli_Chr07	19025071	GG	CC	CC	INTRON	101494415	kinesin-like protein KCA2
SNP_52006_A_19084126	NC_021166.1	Ca_Kabuli_Chr07	19084126	TT	CC	CC	INTERGENIC		
SNP_52007_A_19116980	NC_021166.1	Ca_Kabuli_Chr07	19116980	GG	AA	AA	INTERGENIC		
SNP_52008_A_19126833	NC_021166.1	Ca_Kabuli_Chr07	19126833	TT	CC	CC	INTERGENIC		
SNP_52009_A_19149854	NC_021166.1	Ca_Kabuli_Chr07	19149854	TT	CC	CC	INTERGENIC		
SNP_52010_A_19167959	NC_021166.1	Ca_Kabuli_Chr07	19167959	TT	AA	AA	INTERGENIC		
SNP_52011_A_19179057	NC_021166.1	Ca_Kabuli_Chr07	19179057	AA	GG	GG	INTRON	101499314	caffeic acid 3-O-methyltransferase-like
SNP_52012_A_19185027	NC_021166.1	Ca_Kabuli_Chr07	19185027	CC	AA	AA	INTERGENIC		
SNP_52013_A_19263839	NC_021166.1	Ca_Kabuli_Chr07	19263839	AA	GG	GG	INTERGENIC		
SNP_52014_A_19268046	NC_021166.1	Ca_Kabuli_Chr07	19268046	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52016_A_19296559	NC_021166.1	Ca_Kabuli_Chr07	19296559	CC	GG	GG	DRR	101502500	uncharacterized LOC101502500
SNP_52017_A_19296571	NC_021166.1	Ca_Kabuli_Chr07	19296571	GG	AA	AA	DRR	101502500	uncharacterized LOC101502500
SNP_52019_A_19359983	NC_021166.1	Ca_Kabuli_Chr07	19359983	TT	CC	CC	URR	101502399	uncharacterized LOC101502399
SNP_52020_A_19360020	NC_021166.1	Ca_Kabuli_Chr07	19360020	AA	GG	GG	URR	101502399	uncharacterized LOC101502399
SNP_52021_A_19360291	NC_021166.1	Ca_Kabuli_Chr07	19360291	AA	GG	GG	URR	101502399	uncharacterized LOC101502399
SNP_52022_A_19360296	NC_021166.1	Ca_Kabuli_Chr07	19360296	GG	AA	AA	URR	101502399	uncharacterized LOC101502399
SNP_52023_A_19360339	NC_021166.1	Ca_Kabuli_Chr07	19360339	AA	CC	CC	URR	101502399	uncharacterized LOC101502399
SNP_52024_A_19360608	NC_021166.1	Ca_Kabuli_Chr07	19360608	TT	AA	AA	URR	101502399	uncharacterized LOC101502399
SNP_52026_A_19440256	NC_021166.1	Ca_Kabuli_Chr07	19440256	CC	TT	TT	INTERGENIC		
SNP_52027_A_19440575	NC_021166.1	Ca_Kabuli_Chr07	19440575	CC	TT	TT	INTERGENIC		
SNP_52028_A_19461412	NC_021166.1	Ca_Kabuli_Chr07	19461412	AA	CC	CC	INTERGENIC		
SNP_52029_A_19463384	NC_021166.1	Ca_Kabuli_Chr07	19463384	TT	CC	CC	INTERGENIC		
SNP_52030_A_19505591	NC_021166.1	Ca_Kabuli_Chr07	19505591	CC	AA	AA	INTERGENIC		
SNP_52031_A_19510905	NC_021166.1	Ca_Kabuli_Chr07	19510905	AA	CC	CC	INTERGENIC		
SNP_52032_A_19510966	NC_021166.1	Ca_Kabuli_Chr07	19510966	TT	GG	GG	INTERGENIC		
SNP_52033_A_19510980	NC_021166.1	Ca_Kabuli_Chr07	19510980	TT	AA	AA	INTERGENIC		
SNP_52034_A_19511327	NC_021166.1	Ca_Kabuli_Chr07	19511327	TT	CC	CC	INTERGENIC		
SNP_52035_A_19511334	NC_021166.1	Ca_Kabuli_Chr07	19511334	AA	CC	CC	INTERGENIC		
SNP_52036_A_19517105	NC_021166.1	Ca_Kabuli_Chr07	19517105	CC	AA	AA	INTERGENIC		
SNP_52037_A_19529352	NC_021166.1	Ca_Kabuli_Chr07	19529352	AA	GG	GG	URR	101505275	tRNA-dihydrouridine(20) synthase [NAD(P)+]-like
SNP_52038_A_19584564	NC_021166.1	Ca_Kabuli_Chr07	19584564	CC	TT	TT	INTERGENIC		
SNP_52039_A_19584566	NC_021166.1	Ca_Kabuli_Chr07	19584566	CC	TT	TT	INTERGENIC		

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SNP_52040_A_19584595	NC_021166.1	Ca_Kabuli_Chr07	19584595	TT	AA	AA	INTERGENIC		
SNP_52041_A_19584596	NC_021166.1	Ca_Kabuli_Chr07	19584596	TT	CC	CC	INTERGENIC		
SNP_52042_A_19584726	NC_021166.1	Ca_Kabuli_Chr07	19584726	AA	TT	TT	INTERGENIC		
SNP_52043_A_19584747	NC_021166.1	Ca_Kabuli_Chr07	19584747	AA	TT	TT	INTERGENIC		
SNP_52044_A_19584786	NC_021166.1	Ca_Kabuli_Chr07	19584786	TT	GG	GG	INTERGENIC		
SNP_52045_A_19584790	NC_021166.1	Ca_Kabuli_Chr07	19584790	CC	TT	TT	INTERGENIC		
SNP_52048_A_19622474	NC_021166.1	Ca_Kabuli_Chr07	19622474	GG	AA	AA	URR	101507137	transcription factor MYC2-like
SNP_52050_A_19646854	NC_021166.1	Ca_Kabuli_Chr07	19646854	TT	GG	GG	INTERGENIC		
SNP_52051_A_19646955	NC_021166.1	Ca_Kabuli_Chr07	19646955	TT	AA	AA	INTERGENIC		
SNP_52052_A_19647299	NC_021166.1	Ca_Kabuli_Chr07	19647299	GG	AA	AA	INTERGENIC		
SNP_52053_A_19673710	NC_021166.1	Ca_Kabuli_Chr07	19673710	TT	CC	CC	INTERGENIC		
SNP_52054_A_19705801	NC_021166.1	Ca_Kabuli_Chr07	19705801	TT	CC	CC	URR	101505720	Unknown function
SNP_52055_A_19731438	NC_021166.1	Ca_Kabuli_Chr07	19731438	TT	CC	CC	DRR	101506358	uncharacterized LOC101506358
SNP_52056_A_19731448	NC_021166.1	Ca_Kabuli_Chr07	19731448	CC	TT	TT	DRR	101506358	uncharacterized LOC101506358
SNP_52058_A_19731801	NC_021166.1	Ca_Kabuli_Chr07	19731801	CC	TT	TT	DRR	101506358	uncharacterized LOC101506358
SNP_52059_A_19731815	NC_021166.1	Ca_Kabuli_Chr07	19731815	TT	CC	CC	DRR	101506358	uncharacterized LOC101506358
SNP_52060_A_19731846	NC_021166.1	Ca_Kabuli_Chr07	19731846	TT	CC	CC	DRR	101506358	uncharacterized LOC101506358
SNP_52061_A_19731860	NC_021166.1	Ca_Kabuli_Chr07	19731860	CC	AA	AA	DRR	101506358	uncharacterized LOC101506358
SNP_52062_A_19732025	NC_021166.1	Ca_Kabuli_Chr07	19732025	GG	AA	AA	DRR	101506358	uncharacterized LOC101506358
SNP_52063_A_19732045	NC_021166.1	Ca_Kabuli_Chr07	19732045	CC	GG	GG	DRR	101506358	uncharacterized LOC101506358
SNP_52064_A_19732089	NC_021166.1	Ca_Kabuli_Chr07	19732089	TT	CC	CC	SYNONYMOUS_CODING	101506358	uncharacterized LOC101506358
SNP_52065_A_19732117	NC_021166.1	Ca_Kabuli_Chr07	19732117	TT	CC	CC	NON_SYNONYMOUS_CODING	101506358	uncharacterized LOC101506358

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SNP_52066_A_19732168	NC_021166.1	Ca_Kabuli_Chr07	19732168	GG	AA	AA	NON_SYNONYMOUS_CODING	101506358	uncharacterized LOC101506358
SNP_52067_A_19732182	NC_021166.1	Ca_Kabuli_Chr07	19732182	CC	TT	TT	SYNONYMOUS_CODING	101506358	uncharacterized LOC101506358
SNP_52068_A_19732228	NC_021166.1	Ca_Kabuli_Chr07	19732228	AA	GG	GG	NON_SYNONYMOUS_CODING	101506358	uncharacterized LOC101506358
SNP_52069_A_19786413	NC_021166.1	Ca_Kabuli_Chr07	19786413	AA	GG	GG	INTERGENIC		
SNP_52070_A_19786603	NC_021166.1	Ca_Kabuli_Chr07	19786603	CC	AA	AA	INTERGENIC		
SNP_52071_A_19786609	NC_021166.1	Ca_Kabuli_Chr07	19786609	AA	TT	TT	INTERGENIC		
SNP_52072_A_19786645	NC_021166.1	Ca_Kabuli_Chr07	19786645	CC	AA	AA	INTERGENIC		
SNP_52073_A_19787318	NC_021166.1	Ca_Kabuli_Chr07	19787318	TT	GG	GG	INTERGENIC		
SNP_52074_A_19823250	NC_021166.1	Ca_Kabuli_Chr07	19823250	TT	CC	CC	INTERGENIC		
SNP_52075_A_19823562	NC_021166.1	Ca_Kabuli_Chr07	19823562	GG	TT	TT	INTERGENIC		
SNP_52076_A_19829662	NC_021166.1	Ca_Kabuli_Chr07	19829662	GG	AA	AA	INTERGENIC		
SNP_52079_A_19848478	NC_021166.1	Ca_Kabuli_Chr07	19848478	CC	TT	TT	INTERGENIC		
SNP_52081_A_19860233	NC_021166.1	Ca_Kabuli_Chr07	19860233	CC	TT	TT	INTERGENIC		
SNP_52082_A_19860285	NC_021166.1	Ca_Kabuli_Chr07	19860285	TT	GG	GG	INTERGENIC		
SNP_52084_A_19860604	NC_021166.1	Ca_Kabuli_Chr07	19860604	TT	AA	AA	INTERGENIC		
SNP_52085_A_19860641	NC_021166.1	Ca_Kabuli_Chr07	19860641	GG	CC	CC	INTERGENIC		
SNP_52086_A_19860852	NC_021166.1	Ca_Kabuli_Chr07	19860852	TT	CC	CC	INTERGENIC		
SNP_52087_A_19860885	NC_021166.1	Ca_Kabuli_Chr07	19860885	CC	AA	AA	INTERGENIC		
SNP_52088_A_19860886	NC_021166.1	Ca_Kabuli_Chr07	19860886	GG	AA	AA	INTERGENIC		
SNP_52090_A_19867305	NC_021166.1	Ca_Kabuli_Chr07	19867305	TT	CC	CC	INTERGENIC		
SNP_52091_A_19874294	NC_021166.1	Ca_Kabuli_Chr07	19874294	TT	GG	GG	INTERGENIC		
SNP_52092_A_19891103	NC_021166.1	Ca_Kabuli_Chr07	19891103	CC	GG	GG	URR	101509030	protein TORNADO 2-like

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SNP_52093_A_19896172	NC_021166.1	Ca_Kabuli_Chr07	19896172	AA	TT	TT	INTERGENIC		
SNP_52094_A_19922459	NC_021166.1	Ca_Kabuli_Chr07	19922459	AA	GG	GG	DRR	101507968	RING-H2 finger protein ATL51
SNP_52095_A_19957465	NC_021166.1	Ca_Kabuli_Chr07	19957465	GG	AA	AA	INTERGENIC		
SNP_52096_A_19962365	NC_021166.1	Ca_Kabuli_Chr07	19962365	AA	GG	GG	INTERGENIC		
SNP_52099_A_19977319	NC_021166.1	Ca_Kabuli_Chr07	19977319	AA	GG	GG	INTERGENIC		
SNP_52100_A_19977357	NC_021166.1	Ca_Kabuli_Chr07	19977357	TT	CC	CC	INTERGENIC		
SNP_52101_A_19977516	NC_021166.1	Ca_Kabuli_Chr07	19977516	AA	GG	GG	INTERGENIC		
SNP_52102_A_19977803	NC_021166.1	Ca_Kabuli_Chr07	19977803	AA	GG	GG	INTERGENIC		
SNP_52104_A_19991983	NC_021166.1	Ca_Kabuli_Chr07	19991983	TT	CC	CC	URR	101510313	zinc finger CCH domain-containing protein 12
SNP_52105_A_19993540	NC_021166.1	Ca_Kabuli_Chr07	19993540	GG	AA	AA	INTERGENIC		
SNP_52106_A_19995031	NC_021166.1	Ca_Kabuli_Chr07	19995031	GG	AA	AA	INTERGENIC		
SNP_52107_A_20033162	NC_021166.1	Ca_Kabuli_Chr07	20033162	AA	GG	GG	URR	101511713	sucrose transport protein SUC8-like
SNP_52108_A_20035640	NC_021166.1	Ca_Kabuli_Chr07	20035640	AA	GG	GG	INTERGENIC		
SNP_52110_A_20036653	NC_021166.1	Ca_Kabuli_Chr07	20036653	GG	CC	CC	INTERGENIC		
SNP_52111_A_20036659	NC_021166.1	Ca_Kabuli_Chr07	20036659	AA	GG	GG	INTERGENIC		
SNP_52113_A_20050652	NC_021166.1	Ca_Kabuli_Chr07	20050652	TT	AA	AA	URR	101512030	probable calcium-binding protein CML11
SNP_52114_A_20059894	NC_021166.1	Ca_Kabuli_Chr07	20059894	GG	AA	AA	INTERGENIC		
SNP_52115_A_20060126	NC_021166.1	Ca_Kabuli_Chr07	20060126	AA	GG	GG	INTERGENIC		
SNP_52116_A_20060227	NC_021166.1	Ca_Kabuli_Chr07	20060227	CC	TT	TT	INTERGENIC		
SNP_52118_A_20061081	NC_021166.1	Ca_Kabuli_Chr07	20061081	TT	CC	CC	INTERGENIC		
SNP_52119_A_20078378	NC_021166.1	Ca_Kabuli_Chr07	20078378	TT	CC	CC	INTERGENIC		
SNP_52120_A_20092564	NC_021166.1	Ca_Kabuli_Chr07	20092564	CC	TT	TT	INTERGENIC		

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SNP_52121_A_20121711	NC_021166.1	Ca_Kabuli_Chr07	20121711	CC	TT	TT	INTRON	101514841	probable transcription factor KAN2
SNP_52122_A_20217434	NC_021166.1	Ca_Kabuli_Chr07	20217434	TT	AA	AA	INTERGENIC		
SNP_52123_A_20217491	NC_021166.1	Ca_Kabuli_Chr07	20217491	AA	GG	GG	INTERGENIC		
SNP_52124_A_20217532	NC_021166.1	Ca_Kabuli_Chr07	20217532	CC	GG	GG	INTERGENIC		
SNP_52126_A_20217901	NC_021166.1	Ca_Kabuli_Chr07	20217901	TT	CC	CC	INTERGENIC		
SNP_52127_A_20220232	NC_021166.1	Ca_Kabuli_Chr07	20220232	AA	GG	GG	INTERGENIC		
SNP_52130_A_20251949	NC_021166.1	Ca_Kabuli_Chr07	20251949	AA	GG	GG	DRR	101488914	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_52131_A_20251950	NC_021166.1	Ca_Kabuli_Chr07	20251950	TT	GG	GG	DRR	101488914	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_52132_A_20251970	NC_021166.1	Ca_Kabuli_Chr07	20251970	GG	AA	AA	DRR	101488914	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_52133_A_20251982	NC_021166.1	Ca_Kabuli_Chr07	20251982	TT	AA	AA	DRR	101488914	probable pre-mRNA-splicing factor ATP-dependent RNA helicase
SNP_52134_A_20252334	NC_021166.1	Ca_Kabuli_Chr07	20252334	TT	AA	AA	URR	101489238	uncharacterized LOC101489238
SNP_52136_A_20252613	NC_021166.1	Ca_Kabuli_Chr07	20252613	AA	GG	GG	URR	101489238	uncharacterized LOC101489238
SNP_52137_A_20321678	NC_021166.1	Ca_Kabuli_Chr07	20321678	CC	AA	AA	URR	101490111	polygalacturonase At1g48100-like
SNP_52138_A_20331829	NC_021166.1	Ca_Kabuli_Chr07	20331829	CC	AA	AA	INTERGENIC		
SNP_52139_A_20358954	NC_021166.1	Ca_Kabuli_Chr07	20358954	TT	CC	CC	INTERGENIC		
SNP_52140_A_20371532	NC_021166.1	Ca_Kabuli_Chr07	20371532	CC	AA	AA	DRR	101491807	putative pentatricopeptide repeat-containing protein At1g68930
SNP_52141_A_20441565	NC_021166.1	Ca_Kabuli_Chr07	20441565	GG	AA	AA	INTERGENIC		
SNP_52142_A_20443613	NC_021166.1	Ca_Kabuli_Chr07	20443613	GG	AA	AA	INTRON	101511821	7-deoxyloganic acid glucosyltransferase-like
SNP_52143_A_20443649	NC_021166.1	Ca_Kabuli_Chr07	20443649	GG	AA	AA	INTRON	101511821	7-deoxyloganic acid glucosyltransferase-like
SNP_52144_A_20450725	NC_021166.1	Ca_Kabuli_Chr07	20450725	AA	GG	GG	DRR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52145_A_20450987	NC_021166.1	Ca_Kabuli_Chr07	20450987	GG	TT	TT	DRR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52147_A_20451060	NC_021166.1	Ca_Kabuli_Chr07	20451060	AA	TT	TT	DRR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1

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SNP_52148_A_20452945	NC_021166.1	Ca_Kabuli_Chr07	20452945	AA	GG	GG	INTRON	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52149_A_20457563	NC_021166.1	Ca_Kabuli_Chr07	20457563	AA	TT	TT	URR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52150_A_20458155	NC_021166.1	Ca_Kabuli_Chr07	20458155	TT	CC	CC	URR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52151_A_20458307	NC_021166.1	Ca_Kabuli_Chr07	20458307	TT	CC	CC	URR	101493042	receptor-like cytosolic serine/threonine-protein kinase RBK1
SNP_52152_A_20463294	NC_021166.1	Ca_Kabuli_Chr07	20463294	CC	TT	TT	DRR	101512133	Unknown function
SNP_52153_A_20463313	NC_021166.1	Ca_Kabuli_Chr07	20463313	GG	TT	TT	DRR	101512133	Unknown function
SNP_52154_A_20463315	NC_021166.1	Ca_Kabuli_Chr07	20463315	TT	CC	CC	DRR	101512133	Unknown function
SNP_52155_A_20463398	NC_021166.1	Ca_Kabuli_Chr07	20463398	AA	GG	GG	DRR	101512133	Unknown function
SNP_52156_A_20463456	NC_021166.1	Ca_Kabuli_Chr07	20463456	TT	GG	GG	DRR	101512133	Unknown function
SNP_52157_A_20463608	NC_021166.1	Ca_Kabuli_Chr07	20463608	CC	GG	GG	DRR	101512133	Unknown function
SNP_52158_A_20463810	NC_021166.1	Ca_Kabuli_Chr07	20463810	CC	TT	TT	DRR	101512133	Unknown function
SNP_52159_A_20463874	NC_021166.1	Ca_Kabuli_Chr07	20463874	CC	TT	TT	DRR	101512133	Unknown function
SNP_52160_A_20463950	NC_021166.1	Ca_Kabuli_Chr07	20463950	AA	GG	GG	DRR	101512133	Unknown function
SNP_52161_A_20464003	NC_021166.1	Ca_Kabuli_Chr07	20464003	AA	CC	CC	DRR	101512133	Unknown function
SNP_52162_A_20464011	NC_021166.1	Ca_Kabuli_Chr07	20464011	CC	TT	TT	DRR	101512133	Unknown function
SNP_52163_A_20464026	NC_021166.1	Ca_Kabuli_Chr07	20464026	AA	GG	GG	DRR	101512133	Unknown function
SNP_52164_A_20464228	NC_021166.1	Ca_Kabuli_Chr07	20464228	AA	TT	TT	NON_SYNONYMOUS_CODING	101512133	Unknown function
SNP_52166_A_20480265	NC_021166.1	Ca_Kabuli_Chr07	20480265	GG	TT	TT	INTERGENIC		
SNP_52167_A_20480901	NC_021166.1	Ca_Kabuli_Chr07	20480901	GG	AA	AA	INTERGENIC		
SNP_52168_A_20482024	NC_021166.1	Ca_Kabuli_Chr07	20482024	GG	TT	TT	INTERGENIC		
SNP_52169_A_20493285	NC_021166.1	Ca_Kabuli_Chr07	20493285	CC	TT	TT	INTERGENIC		
SNP_52171_A_20495766	NC_021166.1	Ca_Kabuli_Chr07	20495766	CC	TT	TT	DRR	101494323	AP2-like ethylene-responsive transcription factor AIL6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52172_A_20496693	NC_021166.1	Ca_Kabuli_Chr07	20496693	AA	GG	GG	INTRON	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52173_A_20496739	NC_021166.1	Ca_Kabuli_Chr07	20496739	GG	CC	CC	INTRON	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52174_A_20497039	NC_021166.1	Ca_Kabuli_Chr07	20497039	AA	CC	CC	INTRON	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52175_A_20500662	NC_021166.1	Ca_Kabuli_Chr07	20500662	CC	TT	TT	URR	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52176_A_20501364	NC_021166.1	Ca_Kabuli_Chr07	20501364	GG	TT	TT	URR	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52178_A_20501456	NC_021166.1	Ca_Kabuli_Chr07	20501456	AA	GG	GG	URR	101494323	AP2-like ethylene-responsive transcription factor AIL6
SNP_52184_A_20503667	NC_021166.1	Ca_Kabuli_Chr07	20503667	TT	AA	AA	INTERGENIC		
SNP_52186_A_20505796	NC_021166.1	Ca_Kabuli_Chr07	20505796	AA	CC	CC	INTERGENIC		
SNP_52188_A_20505874	NC_021166.1	Ca_Kabuli_Chr07	20505874	AA	GG	GG	INTERGENIC		
SNP_52190_A_20506476	NC_021166.1	Ca_Kabuli_Chr07	20506476	TT	AA	AA	INTERGENIC		
SNP_52192_A_20509135	NC_021166.1	Ca_Kabuli_Chr07	20509135	CC	TT	TT	INTERGENIC		
SNP_52193_A_20509143	NC_021166.1	Ca_Kabuli_Chr07	20509143	GG	CC	CC	INTERGENIC		
SNP_52194_A_20509156	NC_021166.1	Ca_Kabuli_Chr07	20509156	GG	AA	AA	INTERGENIC		
SNP_52195_A_20510103	NC_021166.1	Ca_Kabuli_Chr07	20510103	CC	GG	GG	INTERGENIC		
SNP_52198_A_20510837	NC_021166.1	Ca_Kabuli_Chr07	20510837	GG	TT	TT	INTERGENIC		
SNP_52200_A_20516084	NC_021166.1	Ca_Kabuli_Chr07	20516084	GG	AA	AA	INTERGENIC		
SNP_52201_A_20517119	NC_021166.1	Ca_Kabuli_Chr07	20517119	TT	CC	CC	INTERGENIC		
SNP_52204_A_20520770	NC_021166.1	Ca_Kabuli_Chr07	20520770	AA	GG	GG	INTERGENIC		
SNP_52205_A_20522303	NC_021166.1	Ca_Kabuli_Chr07	20522303	AA	GG	GG	INTERGENIC		
SNP_52206_A_20523000	NC_021166.1	Ca_Kabuli_Chr07	20523000	TT	CC	CC	INTERGENIC		
SNP_52207_A_20529196	NC_021166.1	Ca_Kabuli_Chr07	20529196	CC	AA	AA	INTERGENIC		
SNP_52209_A_20534365	NC_021166.1	Ca_Kabuli_Chr07	20534365	TT	CC	CC	INTRON	101494849	putative U-box domain-containing protein 50

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52210_A_20534371	NC_021166.1	Ca_Kabuli_Chr07	20534371	CC	TT	TT	INTRON	101494849	putative U-box domain-containing protein 50
SNP_52211_A_20534676	NC_021166.1	Ca_Kabuli_Chr07	20534676	GG	AA	AA	INTERGENIC		
SNP_52212_A_20534689	NC_021166.1	Ca_Kabuli_Chr07	20534689	TT	GG	GG	INTERGENIC		
SNP_52213_A_20534715	NC_021166.1	Ca_Kabuli_Chr07	20534715	AA	GG	GG	INTERGENIC		
SNP_52214_A_20534719	NC_021166.1	Ca_Kabuli_Chr07	20534719	AA	GG	GG	INTERGENIC		
SNP_52215_A_20534720	NC_021166.1	Ca_Kabuli_Chr07	20534720	TT	CC	CC	INTERGENIC		
SNP_52216_A_20536046	NC_021166.1	Ca_Kabuli_Chr07	20536046	AA	GG	GG	INTERGENIC		
SNP_52217_A_20536056	NC_021166.1	Ca_Kabuli_Chr07	20536056	AA	GG	GG	INTERGENIC		
SNP_52219_A_20536283	NC_021166.1	Ca_Kabuli_Chr07	20536283	CC	TT	TT	INTERGENIC		
SNP_52221_A_20538966	NC_021166.1	Ca_Kabuli_Chr07	20538966	CC	TT	TT	DRR	101495176	nucleobase-ascorbate transporter 11-like
SNP_52222_A_20540111	NC_021166.1	Ca_Kabuli_Chr07	20540111	AA	GG	GG	URR	101494849	putative U-box domain-containing protein 50
SNP_52223_A_20543694	NC_021166.1	Ca_Kabuli_Chr07	20543694	GG	AA	AA	INTERGENIC		
SNP_52224_A_20545134	NC_021166.1	Ca_Kabuli_Chr07	20545134	TT	CC	CC	NON_SYNONYMOUS_CODING	101495176	nucleobase-ascorbate transporter 11-like
SNP_52225_A_20545373	NC_021166.1	Ca_Kabuli_Chr07	20545373	TT	GG	GG	NON_SYNONYMOUS_CODING	101495176	nucleobase-ascorbate transporter 11-like
SNP_52226_A_20545520	NC_021166.1	Ca_Kabuli_Chr07	20545520	GG	AA	AA	INTERGENIC		
SNP_52227_A_20554056	NC_021166.1	Ca_Kabuli_Chr07	20554056	AA	GG	GG	INTERGENIC		
SNP_52229_A_20554471	NC_021166.1	Ca_Kabuli_Chr07	20554471	AA	CC	CC	INTERGENIC		
SNP_52230_A_20555372	NC_021166.1	Ca_Kabuli_Chr07	20555372	CC	TT	TT	INTERGENIC		
SNP_52232_A_20559775	NC_021166.1	Ca_Kabuli_Chr07	20559775	TT	AA	AA	INTERGENIC		
SNP_52234_A_20566843	NC_021166.1	Ca_Kabuli_Chr07	20566843	GG	TT	TT	URR	101495826	protein NETWORKED 2D-like
SNP_52235_A_20567192	NC_021166.1	Ca_Kabuli_Chr07	20567192	AA	CC	CC	URR	101495826	protein NETWORKED 2D-like
SNP_52237_A_20574691	NC_021166.1	Ca_Kabuli_Chr07	20574691	GG	TT	TT	UPSTREAM	Gene_ma25854	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52238_A_20575014	NC_021166.1	Ca_Kabuli_Chr07	20575014	AA	TT	TT	URR	101496149	uncharacterized LOC101496149	
SNP_52239_A_20575464	NC_021166.1	Ca_Kabuli_Chr07	20575464	TT	GG	GG	URR	101496149	uncharacterized LOC101496149	
SNP_52240_A_20575506	NC_021166.1	Ca_Kabuli_Chr07	20575506	TT	CC	CC	URR	101496149	uncharacterized LOC101496149	
SNP_52241_A_20578274	NC_021166.1	Ca_Kabuli_Chr07	20578274	GG	AA	AA	INTERGENIC			
SNP_52242_A_20578293	NC_021166.1	Ca_Kabuli_Chr07	20578293	GG	AA	AA	INTERGENIC			
SNP_52243_A_20578296	NC_021166.1	Ca_Kabuli_Chr07	20578296	GG	CC	CC	INTERGENIC			
SNP_52244_A_20578299	NC_021166.1	Ca_Kabuli_Chr07	20578299	GG	AA	AA	INTERGENIC			
SNP_52245_A_20578424	NC_021166.1	Ca_Kabuli_Chr07	20578424	GG	AA	AA	INTERGENIC			
SNP_52246_A_20578476	NC_021166.1	Ca_Kabuli_Chr07	20578476	CC	GG	GG	INTERGENIC			
SNP_52247_A_20593434	NC_021166.1	Ca_Kabuli_Chr07	20593434	TT	CC	CC	INTERGENIC			
SNP_52248_A_20595053	NC_021166.1	Ca_Kabuli_Chr07	20595053	CC	TT	TT	INTERGENIC			
SNP_52250_A_20603589	NC_021166.1	Ca_Kabuli_Chr07	20603589	GG	TT	TT	INTERGENIC			
SNP_52251_A_20603591	NC_021166.1	Ca_Kabuli_Chr07	20603591	CC	GG	GG	INTERGENIC			
SNP_52252_A_20604002	NC_021166.1	Ca_Kabuli_Chr07	20604002	GG	AA	AA	INTERGENIC			
SNP_52254_A_20614696	NC_021166.1	Ca_Kabuli_Chr07	20614696	CC	TT	TT	INTERGENIC			
SNP_52255_A_20614750	NC_021166.1	Ca_Kabuli_Chr07	20614750	CC	TT	TT	INTERGENIC			
SNP_52256_A_20614943	NC_021166.1	Ca_Kabuli_Chr07	20614943	AA	GG	GG	INTERGENIC			
SNP_52257_A_20617009	NC_021166.1	Ca_Kabuli_Chr07	20617009	TT	AA	AA	URR	101496810	uncharacterized protein At1g04910	
SNP_52258_A_20617446	NC_021166.1	Ca_Kabuli_Chr07	20617446	CC	TT	TT	URR	101496810	uncharacterized protein At1g04910	
SNP_52259_A_20617458	NC_021166.1	Ca_Kabuli_Chr07	20617458	TT	CC	CC	URR	101496810	uncharacterized protein At1g04910	
SNP_52260_A_20617460	NC_021166.1	Ca_Kabuli_Chr07	20617460	TT	CC	CC	URR	101496810	uncharacterized protein At1g04910	
SNP_52262_A_20620617	NC_021166.1	Ca_Kabuli_Chr07	20620617	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52263_A_20624998	NC_021166.1	Ca_Kabuli_Chr07	20624998	CC	TT	TT	INTERGENIC		
SNP_52264_A_20625442	NC_021166.1	Ca_Kabuli_Chr07	20625442	CC	TT	TT	INTERGENIC		
SNP_52265_A_20629158	NC_021166.1	Ca_Kabuli_Chr07	20629158	AA	TT	TT	INTERGENIC		
SNP_52266_A_20640858	NC_021166.1	Ca_Kabuli_Chr07	20640858	TT	GG	GG	URR	101497134	translation initiation factor IF-2, mitochondrial
SNP_52267_A_20903418	NC_021166.1	Ca_Kabuli_Chr07	20903418	TT	CC	CC	URR	101514843	uncharacterized LOC101514843
SNP_52268_A_20905188	NC_021166.1	Ca_Kabuli_Chr07	20905188	TT	CC	CC	INTERGENIC		
SNP_52269_A_20911132	NC_021166.1	Ca_Kabuli_Chr07	20911132	CC	TT	TT	INTERGENIC		
SNP_52270_A_20911341	NC_021166.1	Ca_Kabuli_Chr07	20911341	GG	AA	AA	INTERGENIC		
SNP_52271_A_20911355	NC_021166.1	Ca_Kabuli_Chr07	20911355	AA	CC	CC	INTERGENIC		
SNP_52272_A_20911365	NC_021166.1	Ca_Kabuli_Chr07	20911365	TT	CC	CC	INTERGENIC		
SNP_52273_A_20911372	NC_021166.1	Ca_Kabuli_Chr07	20911372	TT	CC	CC	INTERGENIC		
SNP_52274_A_20911391	NC_021166.1	Ca_Kabuli_Chr07	20911391	CC	TT	TT	INTERGENIC		
SNP_52275_A_20911420	NC_021166.1	Ca_Kabuli_Chr07	20911420	CC	TT	TT	INTERGENIC		
SNP_52276_A_20924080	NC_021166.1	Ca_Kabuli_Chr07	20924080	TT	CC	CC	INTERGENIC		
SNP_52277_A_20931898	NC_021166.1	Ca_Kabuli_Chr07	20931898	AA	GG	GG	INTERGENIC		
SNP_52279_A_20934900	NC_021166.1	Ca_Kabuli_Chr07	20934900	TT	CC	CC	INTERGENIC		
SNP_52280_A_20935186	NC_021166.1	Ca_Kabuli_Chr07	20935186	TT	AA	AA	INTERGENIC		
SNP_52281_A_20935245	NC_021166.1	Ca_Kabuli_Chr07	20935245	TT	GG	GG	INTERGENIC		
SNP_52282_A_20945676	NC_021166.1	Ca_Kabuli_Chr07	20945676	GG	AA	AA	INTERGENIC		
SNP_52283_A_20969199	NC_021166.1	Ca_Kabuli_Chr07	20969199	TT	CC	CC	INTERGENIC		
SNP_52284_A_20985359	NC_021166.1	Ca_Kabuli_Chr07	20985359	TT	CC	CC	INTERGENIC		
SNP_52285_A_20985389	NC_021166.1	Ca_Kabuli_Chr07	20985389	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52286_A_20985391	NC_021166.1	Ca_Kabuli_Chr07	20985391	GG	AA	AA	INTERGENIC		
SNP_52287_A_20985406	NC_021166.1	Ca_Kabuli_Chr07	20985406	GG	AA	AA	INTERGENIC		
SNP_52288_A_20985426	NC_021166.1	Ca_Kabuli_Chr07	20985426	GG	AA	AA	INTERGENIC		
SNP_52289_A_20985460	NC_021166.1	Ca_Kabuli_Chr07	20985460	AA	GG	GG	INTERGENIC		
SNP_52290_A_20985497	NC_021166.1	Ca_Kabuli_Chr07	20985497	GG	AA	AA	INTERGENIC		
SNP_52291_A_20985582	NC_021166.1	Ca_Kabuli_Chr07	20985582	TT	CC	CC	INTERGENIC		
SNP_52292_A_20985726	NC_021166.1	Ca_Kabuli_Chr07	20985726	GG	TT	TT	INTERGENIC		
SNP_52293_A_20985872	NC_021166.1	Ca_Kabuli_Chr07	20985872	CC	GG	GG	INTERGENIC		
SNP_52294_A_20985893	NC_021166.1	Ca_Kabuli_Chr07	20985893	AA	GG	GG	INTERGENIC		
SNP_52295_A_20985906	NC_021166.1	Ca_Kabuli_Chr07	20985906	AA	GG	GG	INTERGENIC		
SNP_52296_A_20985921	NC_021166.1	Ca_Kabuli_Chr07	20985921	CC	TT	TT	INTERGENIC		
SNP_52297_A_20987896	NC_021166.1	Ca_Kabuli_Chr07	20987896	TT	GG	GG	INTERGENIC		
SNP_52298_A_21000362	NC_021166.1	Ca_Kabuli_Chr07	21000362	TT	CC	CC	INTERGENIC		
SNP_52299_A_21000364	NC_021166.1	Ca_Kabuli_Chr07	21000364	GG	AA	AA	INTERGENIC		
SNP_52300_A_21000376	NC_021166.1	Ca_Kabuli_Chr07	21000376	TT	CC	CC	INTERGENIC		
SNP_52301_A_21000468	NC_021166.1	Ca_Kabuli_Chr07	21000468	AA	GG	GG	INTERGENIC		
SNP_52302_A_21000848	NC_021166.1	Ca_Kabuli_Chr07	21000848	TT	CC	CC	INTERGENIC		
SNP_52303_A_21006986	NC_021166.1	Ca_Kabuli_Chr07	21006986	TT	GG	GG	INTERGENIC		
SNP_52304_A_21012592	NC_021166.1	Ca_Kabuli_Chr07	21012592	TT	GG	GG	INTERGENIC		
SNP_52305_A_21012610	NC_021166.1	Ca_Kabuli_Chr07	21012610	CC	TT	TT	INTERGENIC		
SNP_52306_A_21020341	NC_021166.1	Ca_Kabuli_Chr07	21020341	AA	TT	TT	INTERGENIC		
SNP_52307_A_21042231	NC_021166.1	Ca_Kabuli_Chr07	21042231	AA	GG	GG	INTRON	101513326	carbonic anhydrase 2-like

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SNP_52308_A_21043317	NC_021166.1	Ca_Kabuli_Chr07	21043317	AA	CC	CC	INTRON	101513326	carbonic anhydrase 2-like
SNP_52309_A_21043318	NC_021166.1	Ca_Kabuli_Chr07	21043318	TT	CC	CC	INTRON	101513326	carbonic anhydrase 2-like
SNP_52310_A_21049080	NC_021166.1	Ca_Kabuli_Chr07	21049080	AA	TT	TT	INTRON	101513326	carbonic anhydrase 2-like
SNP_52311_A_21059752	NC_021166.1	Ca_Kabuli_Chr07	21059752	GG	AA	AA	INTERGENIC		
SNP_52312_A_21069627	NC_021166.1	Ca_Kabuli_Chr07	21069627	AA	TT	TT	INTERGENIC		
SNP_52313_A_21087703	NC_021166.1	Ca_Kabuli_Chr07	21087703	GG	CC	CC	DRR	101513978	Unknown function
SNP_52314_A_21099468	NC_021166.1	Ca_Kabuli_Chr07	21099468	GG	CC	CC	INTERGENIC		
SNP_52315_A_21099495	NC_021166.1	Ca_Kabuli_Chr07	21099495	TT	AA	AA	INTERGENIC		
SNP_52316_A_21099497	NC_021166.1	Ca_Kabuli_Chr07	21099497	TT	CC	CC	INTERGENIC		
SNP_52317_A_21099505	NC_021166.1	Ca_Kabuli_Chr07	21099505	AA	CC	CC	INTERGENIC		
SNP_52318_A_21099591	NC_021166.1	Ca_Kabuli_Chr07	21099591	AA	GG	GG	INTERGENIC		
SNP_52319_A_21099683	NC_021166.1	Ca_Kabuli_Chr07	21099683	CC	TT	TT	INTERGENIC		
SNP_52321_A_21099782	NC_021166.1	Ca_Kabuli_Chr07	21099782	TT	GG	GG	INTERGENIC		
SNP_52322_A_21099792	NC_021166.1	Ca_Kabuli_Chr07	21099792	GG	TT	TT	INTERGENIC		
SNP_52323_A_21103362	NC_021166.1	Ca_Kabuli_Chr07	21103362	TT	AA	AA	INTERGENIC		
SNP_52324_A_21103458	NC_021166.1	Ca_Kabuli_Chr07	21103458	TT	CC	CC	INTERGENIC		
SNP_52325_A_21115200	NC_021166.1	Ca_Kabuli_Chr07	21115200	CC	TT	TT	INTERGENIC		
SNP_52326_A_21115307	NC_021166.1	Ca_Kabuli_Chr07	21115307	CC	AA	AA	INTERGENIC		
SNP_52327_A_21115347	NC_021166.1	Ca_Kabuli_Chr07	21115347	GG	TT	TT	INTERGENIC		
SNP_52330_A_21143529	NC_021166.1	Ca_Kabuli_Chr07	21143529	TT	CC	CC	INTERGENIC		
SNP_52331_A_21168768	NC_021166.1	Ca_Kabuli_Chr07	21168768	AA	CC	CC	INTERGENIC		
SNP_52336_A_21251225	NC_021166.1	Ca_Kabuli_Chr07	21251225	TT	CC	CC	INTERGENIC		

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SNP_52337_A_21251235	NC_021166.1	Ca_Kabuli_Chr07	21251235	GG	TT	TT	INTERGENIC		
SNP_52338_A_21251236	NC_021166.1	Ca_Kabuli_Chr07	21251236	CC	GG	GG	INTERGENIC		
SNP_52339_A_21257262	NC_021166.1	Ca_Kabuli_Chr07	21257262	AA	CC	CC	STOP_LOST	101515284	uncharacterized LOC101515284
SNP_52340_A_21257398	NC_021166.1	Ca_Kabuli_Chr07	21257398	TT	AA	AA	SYNONYMOUS_CODING	101515284	uncharacterized LOC101515284
SNP_52341_A_21257475	NC_021166.1	Ca_Kabuli_Chr07	21257475	TT	GG	GG	NON_SYNONYMOUS_CODING	101515284	uncharacterized LOC101515284
SNP_52342_A_21257521	NC_021166.1	Ca_Kabuli_Chr07	21257521	TT	CC	CC	SYNONYMOUS_CODING	101515284	uncharacterized LOC101515284
SNP_52343_A_21257723	NC_021166.1	Ca_Kabuli_Chr07	21257723	AA	GG	GG	NON_SYNONYMOUS_CODING	101515284	uncharacterized LOC101515284
SNP_52344_A_21257853	NC_021166.1	Ca_Kabuli_Chr07	21257853	AA	GG	GG	SYNONYMOUS_CODING	101515284	uncharacterized LOC101515284
SNP_52345_A_21299408	NC_021166.1	Ca_Kabuli_Chr07	21299408	TT	CC	CC	INTERGENIC		
SNP_52346_A_21336441	NC_021166.1	Ca_Kabuli_Chr07	21336441	CC	TT	TT	INTERGENIC		
SNP_52347_A_21336448	NC_021166.1	Ca_Kabuli_Chr07	21336448	GG	AA	AA	INTERGENIC		
SNP_52348_A_21359511	NC_021166.1	Ca_Kabuli_Chr07	21359511	CC	TT	TT	INTERGENIC		
SNP_52349_A_21441587	NC_021166.1	Ca_Kabuli_Chr07	21441587	TT	AA	AA	INTERGENIC		
SNP_52350_A_21473950	NC_021166.1	Ca_Kabuli_Chr07	21473950	CC	TT	TT	INTERGENIC		
SNP_52351_A_21529943	NC_021166.1	Ca_Kabuli_Chr07	21529943	TT	CC	CC	INTERGENIC		
SNP_52353_A_21559682	NC_021166.1	Ca_Kabuli_Chr07	21559682	TT	GG	GG	INTERGENIC		
SNP_52355_A_21666682	NC_021166.1	Ca_Kabuli_Chr07	21666682	TT	CC	CC	INTERGENIC		
SNP_52356_A_21666903	NC_021166.1	Ca_Kabuli_Chr07	21666903	AA	CC	CC	INTERGENIC		
SNP_52357_A_21666949	NC_021166.1	Ca_Kabuli_Chr07	21666949	CC	TT	TT	INTERGENIC		
SNP_52358_A_21670785	NC_021166.1	Ca_Kabuli_Chr07	21670785	AA	TT	TT	INTERGENIC		
SNP_52359_A_21670832	NC_021166.1	Ca_Kabuli_Chr07	21670832	TT	GG	GG	INTERGENIC		
SNP_52361_A_21674733	NC_021166.1	Ca_Kabuli_Chr07	21674733	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52362_A_21674768	NC_021166.1	Ca_Kabuli_Chr07	21674768	AA	GG	GG	INTERGENIC			
SNP_52363_A_21674821	NC_021166.1	Ca_Kabuli_Chr07	21674821	TT	AA	AA	INTERGENIC			
SNP_52364_A_21674829	NC_021166.1	Ca_Kabuli_Chr07	21674829	CC	TT	TT	INTERGENIC			
SNP_52365_A_21674884	NC_021166.1	Ca_Kabuli_Chr07	21674884	GG	AA	AA	INTERGENIC			
SNP_52366_A_21675381	NC_021166.1	Ca_Kabuli_Chr07	21675381	AA	TT	TT	INTERGENIC			
SNP_52368_A_21675491	NC_021166.1	Ca_Kabuli_Chr07	21675491	TT	CC	CC	INTERGENIC			
SNP_52369_A_21677943	NC_021166.1	Ca_Kabuli_Chr07	21677943	AA	CC	CC	INTERGENIC			
SNP_52370_A_21678098	NC_021166.1	Ca_Kabuli_Chr07	21678098	TT	AA	AA	INTERGENIC			
SNP_52371_A_21678768	NC_021166.1	Ca_Kabuli_Chr07	21678768	CC	AA	AA	INTERGENIC			
SNP_52372_A_21680123	NC_021166.1	Ca_Kabuli_Chr07	21680123	CC	TT	TT	INTERGENIC			
SNP_52373_A_21680130	NC_021166.1	Ca_Kabuli_Chr07	21680130	AA	GG	GG	INTERGENIC			
SNP_52374_A_21680289	NC_021166.1	Ca_Kabuli_Chr07	21680289	GG	AA	AA	INTERGENIC			
SNP_52375_A_21681018	NC_021166.1	Ca_Kabuli_Chr07	21681018	GG	AA	AA	INTERGENIC			
SNP_52376_A_21681195	NC_021166.1	Ca_Kabuli_Chr07	21681195	GG	AA	AA	INTERGENIC			
SNP_52377_A_21681446	NC_021166.1	Ca_Kabuli_Chr07	21681446	AA	GG	GG	INTERGENIC			
SNP_52378_A_21681466	NC_021166.1	Ca_Kabuli_Chr07	21681466	TT	CC	CC	INTERGENIC			
SNP_52379_A_21681509	NC_021166.1	Ca_Kabuli_Chr07	21681509	AA	GG	GG	INTERGENIC			
SNP_52380_A_21681544	NC_021166.1	Ca_Kabuli_Chr07	21681544	CC	TT	TT	INTERGENIC			
SNP_52381_A_21681699	NC_021166.1	Ca_Kabuli_Chr07	21681699	TT	CC	CC	INTERGENIC			
SNP_52382_A_21681726	NC_021166.1	Ca_Kabuli_Chr07	21681726	CC	TT	TT	INTERGENIC			
SNP_52383_A_21681769	NC_021166.1	Ca_Kabuli_Chr07	21681769	CC	TT	TT	INTERGENIC			
SNP_52384_A_21681779	NC_021166.1	Ca_Kabuli_Chr07	21681779	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52385_A_21681782	NC_021166.1	Ca_Kabuli_Chr07	21681782	GG	AA	AA	INTERGENIC			
SNP_52386_A_21681937	NC_021166.1	Ca_Kabuli_Chr07	21681937	GG	AA	AA	INTERGENIC			
SNP_52387_A_21682297	NC_021166.1	Ca_Kabuli_Chr07	21682297	AA	GG	GG	INTERGENIC			
SNP_52388_A_21682646	NC_021166.1	Ca_Kabuli_Chr07	21682646	GG	TT	TT	INTERGENIC			
SNP_52389_A_21682888	NC_021166.1	Ca_Kabuli_Chr07	21682888	GG	AA	AA	INTERGENIC			
SNP_52390_A_21683620	NC_021166.1	Ca_Kabuli_Chr07	21683620	GG	TT	TT	INTERGENIC			
SNP_52391_A_21684632	NC_021166.1	Ca_Kabuli_Chr07	21684632	CC	TT	TT	INTERGENIC			
SNP_52392_A_21684701	NC_021166.1	Ca_Kabuli_Chr07	21684701	TT	CC	CC	INTERGENIC			
SNP_52393_A_21684966	NC_021166.1	Ca_Kabuli_Chr07	21684966	CC	AA	AA	INTERGENIC			
SNP_52394_A_21685053	NC_021166.1	Ca_Kabuli_Chr07	21685053	GG	CC	CC	INTERGENIC			
SNP_52396_A_21686729	NC_021166.1	Ca_Kabuli_Chr07	21686729	GG	AA	AA	INTERGENIC			
SNP_52397_A_21687270	NC_021166.1	Ca_Kabuli_Chr07	21687270	GG	AA	AA	INTERGENIC			
SNP_52398_A_21687286	NC_021166.1	Ca_Kabuli_Chr07	21687286	GG	AA	AA	INTERGENIC			
SNP_52399_A_21700881	NC_021166.1	Ca_Kabuli_Chr07	21700881	CC	TT	TT	URR	101498122	putative F-box protein At3g16210	
SNP_52400_A_21726401	NC_021166.1	Ca_Kabuli_Chr07	21726401	CC	TT	TT	INTERGENIC			
SNP_52401_A_21728256	NC_021166.1	Ca_Kabuli_Chr07	21728256	GG	AA	AA	INTERGENIC			
SNP_52402_A_21728259	NC_021166.1	Ca_Kabuli_Chr07	21728259	GG	AA	AA	INTERGENIC			
SNP_52403_A_21728301	NC_021166.1	Ca_Kabuli_Chr07	21728301	CC	GG	GG	INTERGENIC			
SNP_52404_A_21728328	NC_021166.1	Ca_Kabuli_Chr07	21728328	TT	CC	CC	INTERGENIC			
SNP_52405_A_21728332	NC_021166.1	Ca_Kabuli_Chr07	21728332	AA	GG	GG	INTERGENIC			
SNP_52406_A_21728372	NC_021166.1	Ca_Kabuli_Chr07	21728372	AA	GG	GG	INTERGENIC			
SNP_52408_A_21728437	NC_021166.1	Ca_Kabuli_Chr07	21728437	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52409_A_21728439	NC_021166.1	Ca_Kabuli_Chr07	21728439	CC	TT	TT	INTERGENIC			
SNP_52410_A_21728485	NC_021166.1	Ca_Kabuli_Chr07	21728485	TT	CC	CC	INTERGENIC			
SNP_52411_A_21728486	NC_021166.1	Ca_Kabuli_Chr07	21728486	GG	AA	AA	INTERGENIC			
SNP_52412_A_21728570	NC_021166.1	Ca_Kabuli_Chr07	21728570	TT	GG	GG	INTERGENIC			
SNP_52413_A_21728581	NC_021166.1	Ca_Kabuli_Chr07	21728581	GG	AA	AA	INTERGENIC			
SNP_52414_A_21728613	NC_021166.1	Ca_Kabuli_Chr07	21728613	GG	TT	TT	INTERGENIC			
SNP_52415_A_21728638	NC_021166.1	Ca_Kabuli_Chr07	21728638	GG	AA	AA	INTERGENIC			
SNP_52416_A_21728728	NC_021166.1	Ca_Kabuli_Chr07	21728728	TT	CC	CC	INTERGENIC			
SNP_52417_A_21728731	NC_021166.1	Ca_Kabuli_Chr07	21728731	GG	AA	AA	INTERGENIC			
SNP_52418_A_21728821	NC_021166.1	Ca_Kabuli_Chr07	21728821	AA	CC	CC	INTERGENIC			
SNP_52419_A_21728904	NC_021166.1	Ca_Kabuli_Chr07	21728904	CC	GG	GG	INTERGENIC			
SNP_52420_A_21728928	NC_021166.1	Ca_Kabuli_Chr07	21728928	CC	TT	TT	INTERGENIC			
SNP_52421_A_21728935	NC_021166.1	Ca_Kabuli_Chr07	21728935	GG	AA	AA	INTERGENIC			
SNP_52422_A_21728966	NC_021166.1	Ca_Kabuli_Chr07	21728966	TT	CC	CC	INTERGENIC			
SNP_52424_A_21729239	NC_021166.1	Ca_Kabuli_Chr07	21729239	AA	GG	GG	INTERGENIC			
SNP_52426_A_21729493	NC_021166.1	Ca_Kabuli_Chr07	21729493	TT	AA	AA	INTERGENIC			
SNP_52427_A_21729580	NC_021166.1	Ca_Kabuli_Chr07	21729580	AA	TT	TT	INTERGENIC			
SNP_52428_A_21729657	NC_021166.1	Ca_Kabuli_Chr07	21729657	TT	AA	AA	INTERGENIC			
SNP_52429_A_21729819	NC_021166.1	Ca_Kabuli_Chr07	21729819	AA	GG	GG	INTERGENIC			
SNP_52430_A_21729872	NC_021166.1	Ca_Kabuli_Chr07	21729872	AA	CC	CC	INTERGENIC			
SNP_52431_A_21729892	NC_021166.1	Ca_Kabuli_Chr07	21729892	TT	AA	AA	INTERGENIC			
SNP_52432_A_21729893	NC_021166.1	Ca_Kabuli_Chr07	21729893	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52433_A_21730106	NC_021166.1	Ca_Kabuli_Chr07	21730106	CC	GG	GG	INTERGENIC			
SNP_52434_A_21730144	NC_021166.1	Ca_Kabuli_Chr07	21730144	CC	TT	TT	INTERGENIC			
SNP_52435_A_21730147	NC_021166.1	Ca_Kabuli_Chr07	21730147	TT	CC	CC	INTERGENIC			
SNP_52436_A_21730302	NC_021166.1	Ca_Kabuli_Chr07	21730302	AA	TT	TT	INTERGENIC			
SNP_52437_A_21730308	NC_021166.1	Ca_Kabuli_Chr07	21730308	AA	TT	TT	INTERGENIC			
SNP_52438_A_21730497	NC_021166.1	Ca_Kabuli_Chr07	21730497	CC	TT	TT	INTERGENIC			
SNP_52439_A_21730501	NC_021166.1	Ca_Kabuli_Chr07	21730501	GG	AA	AA	INTERGENIC			
SNP_52440_A_21730540	NC_021166.1	Ca_Kabuli_Chr07	21730540	GG	TT	TT	INTERGENIC			
SNP_52441_A_21730605	NC_021166.1	Ca_Kabuli_Chr07	21730605	TT	CC	CC	INTERGENIC			
SNP_52442_A_21730608	NC_021166.1	Ca_Kabuli_Chr07	21730608	CC	GG	GG	INTERGENIC			
SNP_52443_A_21730625	NC_021166.1	Ca_Kabuli_Chr07	21730625	TT	GG	GG	INTERGENIC			
SNP_52444_A_21730669	NC_021166.1	Ca_Kabuli_Chr07	21730669	TT	CC	CC	INTERGENIC			
SNP_52445_A_21730842	NC_021166.1	Ca_Kabuli_Chr07	21730842	AA	TT	TT	INTERGENIC			
SNP_52446_A_21730845	NC_021166.1	Ca_Kabuli_Chr07	21730845	AA	TT	TT	INTERGENIC			
SNP_52447_A_21730868	NC_021166.1	Ca_Kabuli_Chr07	21730868	CC	AA	AA	INTERGENIC			
SNP_52448_A_21730900	NC_021166.1	Ca_Kabuli_Chr07	21730900	CC	TT	TT	INTERGENIC			
SNP_52449_A_21730905	NC_021166.1	Ca_Kabuli_Chr07	21730905	TT	CC	CC	INTERGENIC			
SNP_52450_A_21730915	NC_021166.1	Ca_Kabuli_Chr07	21730915	GG	AA	AA	INTERGENIC			
SNP_52451_A_21731038	NC_021166.1	Ca_Kabuli_Chr07	21731038	TT	CC	CC	INTERGENIC			
SNP_52452_A_21731046	NC_021166.1	Ca_Kabuli_Chr07	21731046	AA	GG	GG	INTERGENIC			
SNP_52453_A_21731118	NC_021166.1	Ca_Kabuli_Chr07	21731118	GG	TT	TT	INTERGENIC			
SNP_52454_A_21731149	NC_021166.1	Ca_Kabuli_Chr07	21731149	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52455_A_21731240	NC_021166.1	Ca_Kabuli_Chr07	21731240	AA	TT	TT	INTERGENIC			
SNP_52456_A_21731338	NC_021166.1	Ca_Kabuli_Chr07	21731338	TT	CC	CC	INTERGENIC			
SNP_52457_A_21731395	NC_021166.1	Ca_Kabuli_Chr07	21731395	TT	CC	CC	INTERGENIC			
SNP_52458_A_21731428	NC_021166.1	Ca_Kabuli_Chr07	21731428	TT	AA	AA	INTERGENIC			
SNP_52459_A_21731511	NC_021166.1	Ca_Kabuli_Chr07	21731511	GG	AA	AA	INTERGENIC			
SNP_52460_A_21731518	NC_021166.1	Ca_Kabuli_Chr07	21731518	GG	AA	AA	INTERGENIC			
SNP_52461_A_21731527	NC_021166.1	Ca_Kabuli_Chr07	21731527	TT	AA	AA	INTERGENIC			
SNP_52462_A_21731531	NC_021166.1	Ca_Kabuli_Chr07	21731531	GG	AA	AA	INTERGENIC			
SNP_52463_A_21731558	NC_021166.1	Ca_Kabuli_Chr07	21731558	CC	TT	TT	INTERGENIC			
SNP_52464_A_21731750	NC_021166.1	Ca_Kabuli_Chr07	21731750	TT	CC	CC	INTERGENIC			
SNP_52465_A_21742351	NC_021166.1	Ca_Kabuli_Chr07	21742351	TT	CC	CC	INTERGENIC			
SNP_52466_A_21742359	NC_021166.1	Ca_Kabuli_Chr07	21742359	CC	TT	TT	INTERGENIC			
SNP_52467_A_21743011	NC_021166.1	Ca_Kabuli_Chr07	21743011	CC	TT	TT	INTERGENIC			
SNP_52469_A_21743385	NC_021166.1	Ca_Kabuli_Chr07	21743385	TT	AA	AA	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52470_A_21743393	NC_021166.1	Ca_Kabuli_Chr07	21743393	TT	CC	CC	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52471_A_21743528	NC_021166.1	Ca_Kabuli_Chr07	21743528	TT	GG	GG	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52472_A_21743540	NC_021166.1	Ca_Kabuli_Chr07	21743540	GG	AA	AA	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52473_A_21743592	NC_021166.1	Ca_Kabuli_Chr07	21743592	TT	GG	GG	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52475_A_21743638	NC_021166.1	Ca_Kabuli_Chr07	21743638	TT	CC	CC	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52476_A_21743676	NC_021166.1	Ca_Kabuli_Chr07	21743676	GG	AA	AA	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52477_A_21743731	NC_021166.1	Ca_Kabuli_Chr07	21743731	TT	CC	CC	DRR	101499316	transcription factor DIVARICATA-like	
SNP_52478_A_21743739	NC_021166.1	Ca_Kabuli_Chr07	21743739	TT	CC	CC	DRR	101499316	transcription factor DIVARICATA-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52479_A_21743840	NC_021166.1	Ca_Kabuli_Chr07	21743840	CC	AA	AA	DRR	101499316	transcription factor DIVARICATA-like
SNP_52480_A_21743841	NC_021166.1	Ca_Kabuli_Chr07	21743841	TT	GG	GG	DRR	101499316	transcription factor DIVARICATA-like
SNP_52481_A_21743843	NC_021166.1	Ca_Kabuli_Chr07	21743843	GG	AA	AA	DRR	101499316	transcription factor DIVARICATA-like
SNP_52482_A_21743845	NC_021166.1	Ca_Kabuli_Chr07	21743845	TT	GG	GG	DRR	101499316	transcription factor DIVARICATA-like
SNP_52483_A_21743929	NC_021166.1	Ca_Kabuli_Chr07	21743929	AA	GG	GG	DRR	101499316	transcription factor DIVARICATA-like
SNP_52485_A_21744003	NC_021166.1	Ca_Kabuli_Chr07	21744003	AA	CC	CC	DRR	101499316	transcription factor DIVARICATA-like
SNP_52486_A_21744355	NC_021166.1	Ca_Kabuli_Chr07	21744355	GG	AA	AA	NON_SYNONYMOUS_CODING	101499316	transcription factor DIVARICATA-like
SNP_52487_A_21744514	NC_021166.1	Ca_Kabuli_Chr07	21744514	TT	CC	CC	NON_SYNONYMOUS_CODING	101499316	transcription factor DIVARICATA-like
SNP_52488_A_21744821	NC_021166.1	Ca_Kabuli_Chr07	21744821	AA	GG	GG	INTRON	101499316	transcription factor DIVARICATA-like
SNP_52489_A_21744856	NC_021166.1	Ca_Kabuli_Chr07	21744856	GG	AA	AA	INTRON	101499316	transcription factor DIVARICATA-like
SNP_52490_A_21745382	NC_021166.1	Ca_Kabuli_Chr07	21745382	CC	TT	TT	INTRON	101499316	transcription factor DIVARICATA-like
SNP_52492_A_21746594	NC_021166.1	Ca_Kabuli_Chr07	21746594	CC	TT	TT	URR	101499316	transcription factor DIVARICATA-like
SNP_52493_A_21746643	NC_021166.1	Ca_Kabuli_Chr07	21746643	CC	TT	TT	URR	101499316	transcription factor DIVARICATA-like
SNP_52494_A_21746651	NC_021166.1	Ca_Kabuli_Chr07	21746651	GG	AA	AA	URR	101499316	transcription factor DIVARICATA-like
SNP_52495_A_21750525	NC_021166.1	Ca_Kabuli_Chr07	21750525	GG	AA	AA	INTERGENIC		
SNP_52496_A_21766124	NC_021166.1	Ca_Kabuli_Chr07	21766124	CC	TT	TT	INTERGENIC		
SNP_52497_A_21766368	NC_021166.1	Ca_Kabuli_Chr07	21766368	AA	GG	GG	INTERGENIC		
SNP_52498_A_21766436	NC_021166.1	Ca_Kabuli_Chr07	21766436	TT	GG	GG	INTERGENIC		
SNP_52499_A_21766439	NC_021166.1	Ca_Kabuli_Chr07	21766439	CC	TT	TT	INTERGENIC		
SNP_52500_A_21818410	NC_021166.1	Ca_Kabuli_Chr07	21818410	TT	CC	CC	INTERGENIC		
SNP_52502_A_21818653	NC_021166.1	Ca_Kabuli_Chr07	21818653	AA	TT	TT	INTERGENIC		
SNP_52503_A_21818654	NC_021166.1	Ca_Kabuli_Chr07	21818654	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52504_A_21818794	NC_021166.1	Ca_Kabuli_Chr07	21818794	CC	TT	TT	INTERGENIC			
SNP_52505_A_21818806	NC_021166.1	Ca_Kabuli_Chr07	21818806	GG	AA	AA	INTERGENIC			
SNP_52506_A_21822870	NC_021166.1	Ca_Kabuli_Chr07	21822870	GG	AA	AA	INTERGENIC			
SNP_52507_A_21831844	NC_021166.1	Ca_Kabuli_Chr07	21831844	GG	TT	TT	INTERGENIC			
SNP_52508_A_21838157	NC_021166.1	Ca_Kabuli_Chr07	21838157	CC	TT	TT	INTERGENIC			
SNP_52509_A_21838162	NC_021166.1	Ca_Kabuli_Chr07	21838162	AA	TT	TT	INTERGENIC			
SNP_52511_A_21849810	NC_021166.1	Ca_Kabuli_Chr07	21849810	TT	GG	GG	INTERGENIC			
SNP_52512_A_21856168	NC_021166.1	Ca_Kabuli_Chr07	21856168	TT	CC	CC	INTERGENIC			
SNP_52513_A_21877330	NC_021166.1	Ca_Kabuli_Chr07	21877330	TT	AA	AA	INTERGENIC			
SNP_52515_A_21986581	NC_021166.1	Ca_Kabuli_Chr07	21986581	TT	GG	GG	INTERGENIC			
SNP_52516_A_21994249	NC_021166.1	Ca_Kabuli_Chr07	21994249	AA	GG	GG	INTERGENIC			
SNP_52517_A_21994650	NC_021166.1	Ca_Kabuli_Chr07	21994650	TT	CC	CC	INTERGENIC			
SNP_52519_A_22014568	NC_021166.1	Ca_Kabuli_Chr07	22014568	AA	GG	GG	INTERGENIC			
SNP_52520_A_22014571	NC_021166.1	Ca_Kabuli_Chr07	22014571	GG	AA	AA	INTERGENIC			
SNP_52521_A_22023665	NC_021166.1	Ca_Kabuli_Chr07	22023665	AA	CC	CC	INTERGENIC			
SNP_52522_A_22027566	NC_021166.1	Ca_Kabuli_Chr07	22027566	TT	AA	AA	INTERGENIC			
SNP_52523_A_22027615	NC_021166.1	Ca_Kabuli_Chr07	22027615	TT	CC	CC	INTERGENIC			
SNP_52525_A_22034889	NC_021166.1	Ca_Kabuli_Chr07	22034889	TT	GG	GG	INTERGENIC			
SNP_52526_A_22035553	NC_021166.1	Ca_Kabuli_Chr07	22035553	AA	GG	GG	INTERGENIC			
SNP_52527_A_22035657	NC_021166.1	Ca_Kabuli_Chr07	22035657	AA	GG	GG	INTERGENIC			
SNP_52528_A_22036213	NC_021166.1	Ca_Kabuli_Chr07	22036213	GG	AA	AA	INTERGENIC			
SNP_52530_A_22036380	NC_021166.1	Ca_Kabuli_Chr07	22036380	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52532_A_22038167	NC_021166.1	Ca_Kabuli_Chr07	22038167	AA	CC	CC	INTERGENIC			
SNP_52533_A_22038776	NC_021166.1	Ca_Kabuli_Chr07	22038776	AA	GG	GG	INTERGENIC			
SNP_52534_A_22042181	NC_021166.1	Ca_Kabuli_Chr07	22042181	TT	GG	GG	URR	101492599	transcription factor GTE12-like	
SNP_52535_A_22042530	NC_021166.1	Ca_Kabuli_Chr07	22042530	AA	GG	GG	URR	101492599	transcription factor GTE12-like	
SNP_52536_A_22042916	NC_021166.1	Ca_Kabuli_Chr07	22042916	CC	AA	AA	URR	101492599	transcription factor GTE12-like	
SNP_52538_A_22044990	NC_021166.1	Ca_Kabuli_Chr07	22044990	CC	AA	AA	INTERGENIC			
SNP_52540_A_22046351	NC_021166.1	Ca_Kabuli_Chr07	22046351	CC	TT	TT	INTERGENIC			
SNP_52541_A_22046592	NC_021166.1	Ca_Kabuli_Chr07	22046592	CC	TT	TT	INTERGENIC			
SNP_52545_A_22047792	NC_021166.1	Ca_Kabuli_Chr07	22047792	TT	GG	GG	INTERGENIC			
SNP_52546_A_22048306	NC_021166.1	Ca_Kabuli_Chr07	22048306	CC	TT	TT	INTERGENIC			
SNP_52547_A_22048847	NC_021166.1	Ca_Kabuli_Chr07	22048847	AA	GG	GG	INTERGENIC			
SNP_52549_A_22049336	NC_021166.1	Ca_Kabuli_Chr07	22049336	AA	TT	TT	INTERGENIC			
SNP_52550_A_22049920	NC_021166.1	Ca_Kabuli_Chr07	22049920	TT	GG	GG	INTERGENIC			
SNP_52551_A_22053695	NC_021166.1	Ca_Kabuli_Chr07	22053695	AA	CC	CC	INTERGENIC			
SNP_52552_A_22068547	NC_021166.1	Ca_Kabuli_Chr07	22068547	TT	GG	GG	DRR	101503342	uncharacterized LOC101503342	
SNP_52553_A_22068570	NC_021166.1	Ca_Kabuli_Chr07	22068570	GG	AA	AA	DRR	101503342	uncharacterized LOC101503342	
SNP_52554_A_22069260	NC_021166.1	Ca_Kabuli_Chr07	22069260	AA	CC	CC	INTRON	101503342	uncharacterized LOC101503342	
SNP_52555_A_22083088	NC_021166.1	Ca_Kabuli_Chr07	22083088	AA	GG	GG	INTERGENIC			
SNP_52556_A_22096383	NC_021166.1	Ca_Kabuli_Chr07	22096383	AA	TT	TT	NON_SYNONYMOUS_CODING	101492928	putative F-box protein At3g16210	
SNP_52557_A_22101671	NC_021166.1	Ca_Kabuli_Chr07	22101671	GG	AA	AA	INTERGENIC			
SNP_52558_A_22101683	NC_021166.1	Ca_Kabuli_Chr07	22101683	CC	TT	TT	INTERGENIC			
SNP_52559_A_22115081	NC_021166.1	Ca_Kabuli_Chr07	22115081	GG	AA	AA	URR	101504000	phosphoribosylformylglycinamide chloroplastic/mitochondrial-like	cyclo-ligase,

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52560_A_22125870	NC_021166.1	Ca_Kabuli_Chr07	22125870	TT	AA	AA	INTERGENIC			
SNP_52561_A_22143216	NC_021166.1	Ca_Kabuli_Chr07	22143216	GG	TT	TT	INTERGENIC			
SNP_52562_A_22146458	NC_021166.1	Ca_Kabuli_Chr07	22146458	GG	AA	AA	INTERGENIC			
SNP_52563_A_22146596	NC_021166.1	Ca_Kabuli_Chr07	22146596	TT	CC	CC	INTERGENIC			
SNP_52564_A_22146668	NC_021166.1	Ca_Kabuli_Chr07	22146668	TT	AA	AA	INTERGENIC			
SNP_52565_A_22146698	NC_021166.1	Ca_Kabuli_Chr07	22146698	CC	TT	TT	INTERGENIC			
SNP_52567_A_22146740	NC_021166.1	Ca_Kabuli_Chr07	22146740	AA	GG	GG	INTERGENIC			
SNP_52568_A_22149216	NC_021166.1	Ca_Kabuli_Chr07	22149216	TT	GG	GG	INTERGENIC			
SNP_52569_A_22174055	NC_021166.1	Ca_Kabuli_Chr07	22174055	GG	CC	CC	INTERGENIC			
SNP_52570_A_22174122	NC_021166.1	Ca_Kabuli_Chr07	22174122	GG	AA	AA	INTERGENIC			
SNP_52571_A_22206661	NC_021166.1	Ca_Kabuli_Chr07	22206661	CC	TT	TT	INTERGENIC			
SNP_52572_A_22206672	NC_021166.1	Ca_Kabuli_Chr07	22206672	CC	TT	TT	INTERGENIC			
SNP_52573_A_22297070	NC_021166.1	Ca_Kabuli_Chr07	22297070	CC	TT	TT	URR	101410596	transfer RNA arginine (anticodon ACG)	
SNP_52574_A_22330605	NC_021166.1	Ca_Kabuli_Chr07	22330605	GG	TT	TT	INTRON	101507015	transcription initiation factor TFIID subunit 4b-like	
SNP_52575_A_22330680	NC_021166.1	Ca_Kabuli_Chr07	22330680	GG	CC	CC	INTRON	101507015	transcription initiation factor TFIID subunit 4b-like	
SNP_52576_A_22330997	NC_021166.1	Ca_Kabuli_Chr07	22330997	GG	AA	AA	INTRON	101507015	transcription initiation factor TFIID subunit 4b-like	
SNP_52577_A_22331017	NC_021166.1	Ca_Kabuli_Chr07	22331017	GG	AA	AA	INTRON	101507015	transcription initiation factor TFIID subunit 4b-like	
SNP_52579_A_22339619	NC_021166.1	Ca_Kabuli_Chr07	22339619	GG	AA	AA	INTERGENIC			
SNP_52580_A_22342233	NC_021166.1	Ca_Kabuli_Chr07	22342233	CC	TT	TT	INTERGENIC			
SNP_52581_A_22350370	NC_021166.1	Ca_Kabuli_Chr07	22350370	AA	GG	GG	INTERGENIC			
SNP_52585_A_22457151	NC_021166.1	Ca_Kabuli_Chr07	22457151	CC	TT	TT	INTERGENIC			
SNP_52587_A_22527751	NC_021166.1	Ca_Kabuli_Chr07	22527751	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52589_A_22598042	NC_021166.1	Ca_Kabuli_Chr07	22598042	AA	CC	CC	INTERGENIC		
SNP_52590_A_22652043	NC_021166.1	Ca_Kabuli_Chr07	22652043	AA	TT	TT	INTERGENIC		
SNP_52592_A_22664292	NC_021166.1	Ca_Kabuli_Chr07	22664292	AA	GG	GG	INTRON	101504426	protein FAR1-RELATED SEQUENCE 5-like
SNP_52593_A_22664298	NC_021166.1	Ca_Kabuli_Chr07	22664298	AA	GG	GG	INTRON	101504426	protein FAR1-RELATED SEQUENCE 5-like
SNP_52594_A_22664309	NC_021166.1	Ca_Kabuli_Chr07	22664309	CC	AA	AA	INTRON	101504426	protein FAR1-RELATED SEQUENCE 5-like
SNP_52596_A_22699750	NC_021166.1	Ca_Kabuli_Chr07	22699750	AA	CC	CC	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52597_A_22699759	NC_021166.1	Ca_Kabuli_Chr07	22699759	GG	TT	TT	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52598_A_22700457	NC_021166.1	Ca_Kabuli_Chr07	22700457	AA	GG	GG	STOP_LOST	101505724	kinesin-like protein KIF19
SNP_52599_A_22700880	NC_021166.1	Ca_Kabuli_Chr07	22700880	GG	AA	AA	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52600_A_22700892	NC_021166.1	Ca_Kabuli_Chr07	22700892	AA	CC	CC	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52601_A_22700896	NC_021166.1	Ca_Kabuli_Chr07	22700896	AA	GG	GG	SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52602_A_22700898	NC_021166.1	Ca_Kabuli_Chr07	22700898	AA	GG	GG	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52603_A_22700903	NC_021166.1	Ca_Kabuli_Chr07	22700903	CC	TT	TT	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52604_A_22700913	NC_021166.1	Ca_Kabuli_Chr07	22700913	GG	TT	TT	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52605_A_22700917	NC_021166.1	Ca_Kabuli_Chr07	22700917	GG	AA	AA	SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52606_A_22700918	NC_021166.1	Ca_Kabuli_Chr07	22700918	AA	GG	GG	NON_SYNONYMOUS_CODING	101505724	kinesin-like protein KIF19
SNP_52608_A_22745142	NC_021166.1	Ca_Kabuli_Chr07	22745142	TT	AA	AA	INTRON	101506046	phospholipid-transporting ATPase 3-like
SNP_52609_A_22803878	NC_021166.1	Ca_Kabuli_Chr07	22803878	GG	TT	TT	INTERGENIC		
SNP_52610_A_22803913	NC_021166.1	Ca_Kabuli_Chr07	22803913	AA	GG	GG	INTERGENIC		
SNP_52611_A_22810003	NC_021166.1	Ca_Kabuli_Chr07	22810003	TT	CC	CC	INTERGENIC		
SNP_52612_A_22864273	NC_021166.1	Ca_Kabuli_Chr07	22864273	TT	CC	CC	INTERGENIC		
SNP_52613_A_22864289	NC_021166.1	Ca_Kabuli_Chr07	22864289	CC	TT	TT	INTERGENIC		

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SNP_52614_A_22864330	NC_021166.1	Ca_Kabuli_Chr07	22864330	GG	AA	AA	INTERGENIC			
SNP_52617_A_22911589	NC_021166.1	Ca_Kabuli_Chr07	22911589	TT	AA	AA	INTERGENIC			
SNP_52618_A_22912885	NC_021166.1	Ca_Kabuli_Chr07	22912885	CC	TT	TT	INTERGENIC			
SNP_52619_A_22921689	NC_021166.1	Ca_Kabuli_Chr07	22921689	CC	GG	GG	INTERGENIC			
SNP_52620_A_22921952	NC_021166.1	Ca_Kabuli_Chr07	22921952	AA	CC	CC	INTERGENIC			
SNP_52621_A_22922025	NC_021166.1	Ca_Kabuli_Chr07	22922025	AA	GG	GG	INTERGENIC			
SNP_52622_A_22922128	NC_021166.1	Ca_Kabuli_Chr07	22922128	GG	TT	TT	INTERGENIC			
SNP_52623_A_22927159	NC_021166.1	Ca_Kabuli_Chr07	22927159	TT	CC	CC	INTERGENIC			
SNP_52624_A_22931923	NC_021166.1	Ca_Kabuli_Chr07	22931923	CC	AA	AA	INTERGENIC			
SNP_52625_A_22941408	NC_021166.1	Ca_Kabuli_Chr07	22941408	TT	CC	CC	INTERGENIC			
SNP_52627_A_22952381	NC_021166.1	Ca_Kabuli_Chr07	22952381	CC	TT	TT	INTERGENIC			
SNP_52628_A_22962057	NC_021166.1	Ca_Kabuli_Chr07	22962057	TT	AA	AA	INTERGENIC			
SNP_52629_A_22964630	NC_021166.1	Ca_Kabuli_Chr07	22964630	AA	TT	TT	INTERGENIC			
SNP_52630_A_22969944	NC_021166.1	Ca_Kabuli_Chr07	22969944	AA	GG	GG	INTERGENIC			
SNP_52631_A_22969968	NC_021166.1	Ca_Kabuli_Chr07	22969968	TT	CC	CC	INTERGENIC			
SNP_52632_A_22977974	NC_021166.1	Ca_Kabuli_Chr07	22977974	GG	CC	CC	INTERGENIC			
SNP_52633_A_22992416	NC_021166.1	Ca_Kabuli_Chr07	22992416	AA	CC	CC	INTERGENIC			
SNP_52634_A_22992474	NC_021166.1	Ca_Kabuli_Chr07	22992474	AA	GG	GG	INTERGENIC			
SNP_52635_A_22992492	NC_021166.1	Ca_Kabuli_Chr07	22992492	GG	AA	AA	INTERGENIC			
SNP_52636_A_22992561	NC_021166.1	Ca_Kabuli_Chr07	22992561	CC	TT	TT	INTERGENIC			
SNP_52637_A_22992570	NC_021166.1	Ca_Kabuli_Chr07	22992570	TT	GG	GG	INTERGENIC			
SNP_52638_A_22992625	NC_021166.1	Ca_Kabuli_Chr07	22992625	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52639_A_22992743	NC_021166.1	Ca_Kabuli_Chr07	22992743	TT	GG	GG	INTERGENIC		
SNP_52640_A_22992765	NC_021166.1	Ca_Kabuli_Chr07	22992765	CC	TT	TT	INTERGENIC		
SNP_52641_A_22992802	NC_021166.1	Ca_Kabuli_Chr07	22992802	AA	CC	CC	INTERGENIC		
SNP_52642_A_22992867	NC_021166.1	Ca_Kabuli_Chr07	22992867	TT	CC	CC	INTERGENIC		
SNP_52643_A_22992878	NC_021166.1	Ca_Kabuli_Chr07	22992878	AA	GG	GG	INTERGENIC		
SNP_52644_A_22995814	NC_021166.1	Ca_Kabuli_Chr07	22995814	CC	TT	TT	INTERGENIC		
SNP_52645_A_23037469	NC_021166.1	Ca_Kabuli_Chr07	23037469	CC	TT	TT	INTERGENIC		
SNP_52646_A_23037800	NC_021166.1	Ca_Kabuli_Chr07	23037800	GG	AA	AA	INTERGENIC		
SNP_52647_A_23038213	NC_021166.1	Ca_Kabuli_Chr07	23038213	GG	AA	AA	INTERGENIC		
SNP_52649_A_23038537	NC_021166.1	Ca_Kabuli_Chr07	23038537	AA	TT	TT	INTERGENIC		
SNP_52650_A_23146290	NC_021166.1	Ca_Kabuli_Chr07	23146290	CC	TT	TT	URR	101510533	toll/interleukin-1 receptor-like protein
SNP_52651_A_23162239	NC_021166.1	Ca_Kabuli_Chr07	23162239	GG	TT	TT	URR	101510857	TMV resistance protein N-like
SNP_52652_A_23168674	NC_021166.1	Ca_Kabuli_Chr07	23168674	AA	GG	GG	INTERGENIC		
SNP_52655_A_23178669	NC_021166.1	Ca_Kabuli_Chr07	23178669	GG	AA	AA	STOP_GAINED	101502807	probable LRR receptor-like serine/threonine-protein kinase At3g47570
SNP_52656_A_23193340	NC_021166.1	Ca_Kabuli_Chr07	23193340	AA	GG	GG	INTERGENIC		
SNP_52657_A_23193557	NC_021166.1	Ca_Kabuli_Chr07	23193557	CC	TT	TT	INTERGENIC		
SNP_52658_A_23193594	NC_021166.1	Ca_Kabuli_Chr07	23193594	TT	CC	CC	INTERGENIC		
SNP_52659_A_23193706	NC_021166.1	Ca_Kabuli_Chr07	23193706	AA	GG	GG	INTERGENIC		
SNP_52660_A_23230290	NC_021166.1	Ca_Kabuli_Chr07	23230290	CC	TT	TT	INTERGENIC		
SNP_52661_A_23232689	NC_021166.1	Ca_Kabuli_Chr07	23232689	AA	TT	TT	INTERGENIC		
SNP_52662_A_23241335	NC_021166.1	Ca_Kabuli_Chr07	23241335	GG	AA	AA	INTERGENIC		
SNP_52663_A_23247163	NC_021166.1	Ca_Kabuli_Chr07	23247163	GG	AA	AA	INTERGENIC		

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SNP_52664_A_23247180	NC_021166.1	Ca_Kabuli_Chr07	23247180	CC	TT	TT	INTERGENIC			
SNP_52665_A_23247215	NC_021166.1	Ca_Kabuli_Chr07	23247215	TT	CC	CC	INTERGENIC			
SNP_52666_A_23247380	NC_021166.1	Ca_Kabuli_Chr07	23247380	GG	AA	AA	INTERGENIC			
SNP_52667_A_23294023	NC_021166.1	Ca_Kabuli_Chr07	23294023	CC	TT	TT	INTERGENIC			
SNP_52668_A_23333086	NC_021166.1	Ca_Kabuli_Chr07	23333086	TT	AA	AA	INTERGENIC			
SNP_52669_A_23361630	NC_021166.1	Ca_Kabuli_Chr07	23361630	GG	AA	AA	INTERGENIC			
SNP_52670_A_23361706	NC_021166.1	Ca_Kabuli_Chr07	23361706	CC	GG	GG	INTERGENIC			
SNP_52671_A_23468825	NC_021166.1	Ca_Kabuli_Chr07	23468825	CC	TT	TT	INTERGENIC			
SNP_52672_A_23530085	NC_021166.1	Ca_Kabuli_Chr07	23530085	AA	CC	CC	INTERGENIC			
SNP_52673_A_23530091	NC_021166.1	Ca_Kabuli_Chr07	23530091	TT	CC	CC	INTERGENIC			
SNP_52674_A_23532222	NC_021166.1	Ca_Kabuli_Chr07	23532222	TT	CC	CC	INTERGENIC			
SNP_52675_A_23552756	NC_021166.1	Ca_Kabuli_Chr07	23552756	CC	TT	TT	INTERGENIC			
SNP_52676_A_23556192	NC_021166.1	Ca_Kabuli_Chr07	23556192	CC	TT	TT	INTERGENIC			
SNP_52677_A_23565168	NC_021166.1	Ca_Kabuli_Chr07	23565168	TT	CC	CC	DRR	101488571	uncharacterized LOC101488571	
SNP_52678_A_23603064	NC_021166.1	Ca_Kabuli_Chr07	23603064	GG	TT	TT	URR	101489474	D-aminoacyl-tRNA deacylase	
SNP_52679_A_23613186	NC_021166.1	Ca_Kabuli_Chr07	23613186	TT	CC	CC	DRR	101489789	translin-associated protein X	
SNP_52680_A_23627127	NC_021166.1	Ca_Kabuli_Chr07	23627127	AA	GG	GG	INTERGENIC			
SNP_52681_A_23627473	NC_021166.1	Ca_Kabuli_Chr07	23627473	AA	GG	GG	INTERGENIC			
SNP_52682_A_23627488	NC_021166.1	Ca_Kabuli_Chr07	23627488	AA	CC	CC	INTERGENIC			
SNP_52683_A_23644427	NC_021166.1	Ca_Kabuli_Chr07	23644427	AA	TT	TT	INTERGENIC			
SNP_52684_A_23656788	NC_021166.1	Ca_Kabuli_Chr07	23656788	TT	CC	CC	INTERGENIC			
SNP_52685_A_23658567	NC_021166.1	Ca_Kabuli_Chr07	23658567	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52686_A_23661573	NC_021166.1	Ca_Kabuli_Chr07	23661573	AA	CC	CC	DRR	101491089	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1-like
SNP_52687_A_23661579	NC_021166.1	Ca_Kabuli_Chr07	23661579	AA	GG	GG	DRR	101491089	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1-like
SNP_52689_A_23667538	NC_021166.1	Ca_Kabuli_Chr07	23667538	GG	CC	CC	URR	101491089	trifunctional UDP-glucose 4,6-dehydratase/UDP-4-keto-6-deoxy-D-glucose 3,5-epimerase/UDP-4-keto-L-rhamnose-reductase RHM1-like
SNP_52690_A_23667863	NC_021166.1	Ca_Kabuli_Chr07	23667863	CC	TT	TT	INTERGENIC		
SNP_52691_A_23667867	NC_021166.1	Ca_Kabuli_Chr07	23667867	AA	GG	GG	INTERGENIC		
SNP_52692_A_23667882	NC_021166.1	Ca_Kabuli_Chr07	23667882	CC	TT	TT	INTERGENIC		
SNP_52693_A_23667970	NC_021166.1	Ca_Kabuli_Chr07	23667970	CC	AA	AA	INTERGENIC		
SNP_52695_A_23696042	NC_021166.1	Ca_Kabuli_Chr07	23696042	GG	CC	CC	INTERGENIC		
SNP_52696_A_23766762	NC_021166.1	Ca_Kabuli_Chr07	23766762	CC	TT	TT	INTERGENIC		
SNP_52698_A_23794764	NC_021166.1	Ca_Kabuli_Chr07	23794764	TT	CC	CC	INTERGENIC		
SNP_52700_A_23798634	NC_021166.1	Ca_Kabuli_Chr07	23798634	AA	TT	TT	INTERGENIC		
SNP_52701_A_23801471	NC_021166.1	Ca_Kabuli_Chr07	23801471	CC	AA	AA	INTERGENIC		
SNP_52702_A_23804174	NC_021166.1	Ca_Kabuli_Chr07	23804174	CC	TT	TT	INTERGENIC		
SNP_52703_A_23807168	NC_021166.1	Ca_Kabuli_Chr07	23807168	AA	GG	GG	INTERGENIC		
SNP_52704_A_23807184	NC_021166.1	Ca_Kabuli_Chr07	23807184	CC	TT	TT	INTERGENIC		
SNP_52705_A_23807208	NC_021166.1	Ca_Kabuli_Chr07	23807208	TT	GG	GG	INTERGENIC		
SNP_52706_A_23807367	NC_021166.1	Ca_Kabuli_Chr07	23807367	AA	TT	TT	INTERGENIC		
SNP_52707_A_23807396	NC_021166.1	Ca_Kabuli_Chr07	23807396	AA	GG	GG	INTERGENIC		
SNP_52708_A_23807402	NC_021166.1	Ca_Kabuli_Chr07	23807402	CC	TT	TT	INTERGENIC		
SNP_52709_A_23807410	NC_021166.1	Ca_Kabuli_Chr07	23807410	AA	GG	GG	INTERGENIC		
SNP_52710_A_23807450	NC_021166.1	Ca_Kabuli_Chr07	23807450	AA	TT	TT	INTERGENIC		
SNP_52711_A_23812206	NC_021166.1	Ca_Kabuli_Chr07	23812206	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52712_A_23815462	NC_021166.1	Ca_Kabuli_Chr07	23815462	TT	AA	AA	INTERGENIC			
SNP_52713_A_23819658	NC_021166.1	Ca_Kabuli_Chr07	23819658	GG	AA	AA	INTERGENIC			
SNP_52714_A_23819668	NC_021166.1	Ca_Kabuli_Chr07	23819668	AA	GG	GG	INTERGENIC			
SNP_52715_A_23820032	NC_021166.1	Ca_Kabuli_Chr07	23820032	TT	AA	AA	INTERGENIC			
SNP_52716_A_23824521	NC_021166.1	Ca_Kabuli_Chr07	23824521	TT	CC	CC	INTERGENIC			
SNP_52717_A_23825835	NC_021166.1	Ca_Kabuli_Chr07	23825835	AA	GG	GG	INTERGENIC			
SNP_52718_A_23879151	NC_021166.1	Ca_Kabuli_Chr07	23879151	GG	TT	TT	INTERGENIC			
SNP_52719_A_23879436	NC_021166.1	Ca_Kabuli_Chr07	23879436	CC	AA	AA	INTERGENIC			
SNP_52720_A_23879451	NC_021166.1	Ca_Kabuli_Chr07	23879451	TT	AA	AA	INTERGENIC			
SNP_52721_A_23879455	NC_021166.1	Ca_Kabuli_Chr07	23879455	TT	CC	CC	INTERGENIC			
SNP_52722_A_23879513	NC_021166.1	Ca_Kabuli_Chr07	23879513	AA	TT	TT	INTERGENIC			
SNP_52723_A_23879531	NC_021166.1	Ca_Kabuli_Chr07	23879531	CC	AA	AA	INTERGENIC			
SNP_52724_A_23879560	NC_021166.1	Ca_Kabuli_Chr07	23879560	TT	AA	AA	INTERGENIC			
SNP_52725_A_23879576	NC_021166.1	Ca_Kabuli_Chr07	23879576	GG	CC	CC	INTERGENIC			
SNP_52726_A_23879594	NC_021166.1	Ca_Kabuli_Chr07	23879594	AA	GG	GG	INTERGENIC			
SNP_52727_A_23879615	NC_021166.1	Ca_Kabuli_Chr07	23879615	TT	CC	CC	INTERGENIC			
SNP_52728_A_23894186	NC_021166.1	Ca_Kabuli_Chr07	23894186	GG	AA	AA	INTERGENIC			
SNP_52729_A_23902427	NC_021166.1	Ca_Kabuli_Chr07	23902427	AA	GG	GG	INTERGENIC			
SNP_52730_A_23905788	NC_021166.1	Ca_Kabuli_Chr07	23905788	CC	TT	TT	INTERGENIC			
SNP_52732_A_23930939	NC_021166.1	Ca_Kabuli_Chr07	23930939	TT	CC	CC	URR	101495282	uncharacterized LOC101495282	
SNP_52734_A_23985001	NC_021166.1	Ca_Kabuli_Chr07	23985001	CC	TT	TT	INTERGENIC			
SNP_52735_A_24000784	NC_021166.1	Ca_Kabuli_Chr07	24000784	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52736_A_24001083	NC_021166.1	Ca_Kabuli_Chr07	24001083	TT	CC	CC	INTERGENIC			
SNP_52737_A_24001315	NC_021166.1	Ca_Kabuli_Chr07	24001315	AA	GG	GG	INTERGENIC			
SNP_52738_A_24001324	NC_021166.1	Ca_Kabuli_Chr07	24001324	TT	GG	GG	INTERGENIC			
SNP_52739_A_24001338	NC_021166.1	Ca_Kabuli_Chr07	24001338	CC	TT	TT	INTERGENIC			
SNP_52740_A_24001343	NC_021166.1	Ca_Kabuli_Chr07	24001343	TT	CC	CC	INTERGENIC			
SNP_52741_A_24001346	NC_021166.1	Ca_Kabuli_Chr07	24001346	TT	CC	CC	INTERGENIC			
SNP_52742_A_24002187	NC_021166.1	Ca_Kabuli_Chr07	24002187	TT	CC	CC	INTERGENIC			
SNP_52743_A_24002208	NC_021166.1	Ca_Kabuli_Chr07	24002208	TT	CC	CC	INTERGENIC			
SNP_52744_A_24002233	NC_021166.1	Ca_Kabuli_Chr07	24002233	GG	TT	TT	INTERGENIC			
SNP_52745_A_24037098	NC_021166.1	Ca_Kabuli_Chr07	24037098	TT	CC	CC	INTERGENIC			
SNP_52746_A_24037145	NC_021166.1	Ca_Kabuli_Chr07	24037145	AA	TT	TT	INTERGENIC			
SNP_52747_A_24060145	NC_021166.1	Ca_Kabuli_Chr07	24060145	TT	CC	CC	INTERGENIC			
SNP_52749_A_24098572	NC_021166.1	Ca_Kabuli_Chr07	24098572	TT	CC	CC	INTERGENIC			
SNP_52750_A_24098669	NC_021166.1	Ca_Kabuli_Chr07	24098669	AA	GG	GG	INTERGENIC			
SNP_52751_A_24100778	NC_021166.1	Ca_Kabuli_Chr07	24100778	TT	CC	CC	INTERGENIC			
SNP_52752_A_24107949	NC_021166.1	Ca_Kabuli_Chr07	24107949	TT	GG	GG	INTERGENIC			
SNP_52753_A_24108343	NC_021166.1	Ca_Kabuli_Chr07	24108343	AA	GG	GG	INTERGENIC			
SNP_52754_A_24129128	NC_021166.1	Ca_Kabuli_Chr07	24129128	TT	AA	AA	INTERGENIC			
SNP_52755_A_24199806	NC_021166.1	Ca_Kabuli_Chr07	24199806	GG	TT	TT	INTERGENIC			
SNP_52756_A_24260137	NC_021166.1	Ca_Kabuli_Chr07	24260137	TT	GG	GG	URR	101496812	uncharacterized LOC101496812	
SNP_52757_A_24260172	NC_021166.1	Ca_Kabuli_Chr07	24260172	CC	AA	AA	URR	101496812	uncharacterized LOC101496812	
SNP_52760_A_24284079	NC_021166.1	Ca_Kabuli_Chr07	24284079	TT	AA	AA	URR	101503255	uncharacterized LOC101503255	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52762_A_24284718	NC_021166.1	Ca_Kabuli_Chr07	24284718	TT	AA	AA	INTERGENIC			
SNP_52763_A_24290906	NC_021166.1	Ca_Kabuli_Chr07	24290906	CC	TT	TT	INTERGENIC			
SNP_52764_A_24290913	NC_021166.1	Ca_Kabuli_Chr07	24290913	TT	CC	CC	INTERGENIC			
SNP_52765_A_24329192	NC_021166.1	Ca_Kabuli_Chr07	24329192	AA	CC	CC	INTERGENIC			
SNP_52766_A_24329586	NC_021166.1	Ca_Kabuli_Chr07	24329586	GG	AA	AA	INTERGENIC			
SNP_52767_A_24330486	NC_021166.1	Ca_Kabuli_Chr07	24330486	GG	AA	AA	INTERGENIC			
SNP_52768_A_24335283	NC_021166.1	Ca_Kabuli_Chr07	24335283	TT	GG	GG	INTERGENIC			
SNP_52769_A_24335312	NC_021166.1	Ca_Kabuli_Chr07	24335312	TT	GG	GG	INTERGENIC			
SNP_52770_A_24344572	NC_021166.1	Ca_Kabuli_Chr07	24344572	CC	TT	TT	INTERGENIC			
SNP_52772_A_24348021	NC_021166.1	Ca_Kabuli_Chr07	24348021	CC	TT	TT	INTERGENIC			
SNP_52773_A_24348159	NC_021166.1	Ca_Kabuli_Chr07	24348159	TT	CC	CC	INTERGENIC			
SNP_52774_A_24348315	NC_021166.1	Ca_Kabuli_Chr07	24348315	CC	TT	TT	INTERGENIC			
SNP_52776_A_24348384	NC_021166.1	Ca_Kabuli_Chr07	24348384	TT	CC	CC	INTERGENIC			
SNP_52777_A_24348439	NC_021166.1	Ca_Kabuli_Chr07	24348439	AA	GG	GG	INTERGENIC			
SNP_52778_A_24348544	NC_021166.1	Ca_Kabuli_Chr07	24348544	CC	TT	TT	INTERGENIC			
SNP_52779_A_24348562	NC_021166.1	Ca_Kabuli_Chr07	24348562	TT	CC	CC	INTERGENIC			
SNP_52780_A_24348563	NC_021166.1	Ca_Kabuli_Chr07	24348563	GG	AA	AA	INTERGENIC			
SNP_52781_A_24363947	NC_021166.1	Ca_Kabuli_Chr07	24363947	CC	AA	AA	INTERGENIC			
SNP_52782_A_24365838	NC_021166.1	Ca_Kabuli_Chr07	24365838	TT	AA	AA	INTERGENIC			
SNP_52783_A_24365851	NC_021166.1	Ca_Kabuli_Chr07	24365851	GG	AA	AA	INTERGENIC			
SNP_52784_A_24365880	NC_021166.1	Ca_Kabuli_Chr07	24365880	AA	GG	GG	INTERGENIC			
SNP_52785_A_24365906	NC_021166.1	Ca_Kabuli_Chr07	24365906	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52786_A_24365969	NC_021166.1	Ca_Kabuli_Chr07	24365969	TT	GG	GG	INTERGENIC		
SNP_52787_A_24365970	NC_021166.1	Ca_Kabuli_Chr07	24365970	TT	GG	GG	INTERGENIC		
SNP_52788_A_24381956	NC_021166.1	Ca_Kabuli_Chr07	24381956	AA	GG	GG	INTERGENIC		
SNP_52789_A_24386790	NC_021166.1	Ca_Kabuli_Chr07	24386790	AA	GG	GG	DRR	101497667	uncharacterized aarF domain-containing protein kinase 2-like
SNP_52790_A_24408991	NC_021166.1	Ca_Kabuli_Chr07	24408991	TT	CC	CC	INTERGENIC		
SNP_52793_A_24453864	NC_021166.1	Ca_Kabuli_Chr07	24453864	AA	GG	GG	INTERGENIC		
SNP_52794_A_24454901	NC_021166.1	Ca_Kabuli_Chr07	24454901	GG	AA	AA	INTERGENIC		
SNP_52795_A_24454999	NC_021166.1	Ca_Kabuli_Chr07	24454999	TT	GG	GG	INTERGENIC		
SNP_52796_A_24456728	NC_021166.1	Ca_Kabuli_Chr07	24456728	GG	CC	CC	INTERGENIC		
SNP_52797_A_24456758	NC_021166.1	Ca_Kabuli_Chr07	24456758	AA	CC	CC	INTERGENIC		
SNP_52798_A_24457095	NC_021166.1	Ca_Kabuli_Chr07	24457095	TT	CC	CC	INTERGENIC		
SNP_52799_A_24457164	NC_021166.1	Ca_Kabuli_Chr07	24457164	AA	CC	CC	INTERGENIC		
SNP_52800_A_24462471	NC_021166.1	Ca_Kabuli_Chr07	24462471	GG	AA	AA	INTERGENIC		
SNP_52801_A_24462676	NC_021166.1	Ca_Kabuli_Chr07	24462676	AA	GG	GG	INTERGENIC		
SNP_52802_A_24463055	NC_021166.1	Ca_Kabuli_Chr07	24463055	GG	TT	TT	INTERGENIC		
SNP_52803_A_24485195	NC_021166.1	Ca_Kabuli_Chr07	24485195	TT	CC	CC	INTRON	101498670	uncharacterized LOC101498670
SNP_52804_A_24485201	NC_021166.1	Ca_Kabuli_Chr07	24485201	TT	CC	CC	INTRON	101498670	uncharacterized LOC101498670
SNP_52805_A_24485232	NC_021166.1	Ca_Kabuli_Chr07	24485232	AA	TT	TT	INTRON	101498670	uncharacterized LOC101498670
SNP_52807_A_24485296	NC_021166.1	Ca_Kabuli_Chr07	24485296	CC	TT	TT	INTRON	101498670	uncharacterized LOC101498670
SNP_52808_A_24485448	NC_021166.1	Ca_Kabuli_Chr07	24485448	CC	AA	AA	INTRON	101498670	uncharacterized LOC101498670
SNP_52809_A_24485635	NC_021166.1	Ca_Kabuli_Chr07	24485635	CC	GG	GG	INTRON	101498670	uncharacterized LOC101498670
SNP_52810_A_24485737	NC_021166.1	Ca_Kabuli_Chr07	24485737	CC	AA	AA	INTRON	101498670	uncharacterized LOC101498670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52811_A_24485766	NC_021166.1	Ca_Kabuli_Chr07	24485766	GG	CC	CC	INTRON	101498670	uncharacterized LOC101498670
SNP_52812_A_24485879	NC_021166.1	Ca_Kabuli_Chr07	24485879	AA	TT	TT	STOP_GAINED	101498670	uncharacterized LOC101498670
SNP_52813_A_24492789	NC_021166.1	Ca_Kabuli_Chr07	24492789	GG	AA	AA	INTERGENIC		
SNP_52814_A_24492833	NC_021166.1	Ca_Kabuli_Chr07	24492833	GG	CC	CC	INTERGENIC		
SNP_52815_A_24492979	NC_021166.1	Ca_Kabuli_Chr07	24492979	AA	GG	GG	INTERGENIC		
SNP_52816_A_24493091	NC_021166.1	Ca_Kabuli_Chr07	24493091	TT	AA	AA	INTERGENIC		
SNP_52817_A_24493421	NC_021166.1	Ca_Kabuli_Chr07	24493421	AA	TT	TT	INTERGENIC		
SNP_52818_A_24493437	NC_021166.1	Ca_Kabuli_Chr07	24493437	GG	CC	CC	INTERGENIC		
SNP_52819_A_24493460	NC_021166.1	Ca_Kabuli_Chr07	24493460	AA	TT	TT	INTERGENIC		
SNP_52820_A_24493576	NC_021166.1	Ca_Kabuli_Chr07	24493576	CC	AA	AA	INTERGENIC		
SNP_52821_A_24494137	NC_021166.1	Ca_Kabuli_Chr07	24494137	CC	TT	TT	INTERGENIC		
SNP_52822_A_24494331	NC_021166.1	Ca_Kabuli_Chr07	24494331	AA	CC	CC	DRR	101503572	Unknown function
SNP_52823_A_24494491	NC_021166.1	Ca_Kabuli_Chr07	24494491	CC	TT	TT	DRR	101503572	Unknown function
SNP_52824_A_24494498	NC_021166.1	Ca_Kabuli_Chr07	24494498	AA	CC	CC	DRR	101503572	Unknown function
SNP_52825_A_24494714	NC_021166.1	Ca_Kabuli_Chr07	24494714	CC	TT	TT	DRR	101503572	Unknown function
SNP_52826_A_24494715	NC_021166.1	Ca_Kabuli_Chr07	24494715	TT	CC	CC	DRR	101503572	Unknown function
SNP_52827_A_24494831	NC_021166.1	Ca_Kabuli_Chr07	24494831	TT	CC	CC	DRR	101503572	Unknown function
SNP_52829_A_24495121	NC_021166.1	Ca_Kabuli_Chr07	24495121	AA	CC	CC	DRR	101503572	Unknown function
SNP_52830_A_24495864	NC_021166.1	Ca_Kabuli_Chr07	24495864	CC	TT	TT	INTRON	101503572	Unknown function
SNP_52831_A_24496292	NC_021166.1	Ca_Kabuli_Chr07	24496292	AA	GG	GG	INTRON	101503572	Unknown function
SNP_52832_A_24496524	NC_021166.1	Ca_Kabuli_Chr07	24496524	TT	AA	AA	INTRON	101503572	Unknown function
SNP_52833_A_24496618	NC_021166.1	Ca_Kabuli_Chr07	24496618	GG	AA	AA	INTRON	101503572	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52834_A_24496712	NC_021166.1	Ca_Kabuli_Chr07	24496712	CC	TT	TT	INTRON	101503572	Unknown function
SNP_52835_A_24497096	NC_021166.1	Ca_Kabuli_Chr07	24497096	CC	TT	TT	INTRON	101503572	Unknown function
SNP_52836_A_24501847	NC_021166.1	Ca_Kabuli_Chr07	24501847	GG	AA	AA	INTERGENIC		
SNP_52837_A_24502190	NC_021166.1	Ca_Kabuli_Chr07	24502190	CC	TT	TT	INTERGENIC		
SNP_52838_A_24502193	NC_021166.1	Ca_Kabuli_Chr07	24502193	GG	AA	AA	INTERGENIC		
SNP_52839_A_24502298	NC_021166.1	Ca_Kabuli_Chr07	24502298	CC	AA	AA	INTERGENIC		
SNP_52840_A_24503289	NC_021166.1	Ca_Kabuli_Chr07	24503289	GG	AA	AA	INTERGENIC		
SNP_52841_A_24503296	NC_021166.1	Ca_Kabuli_Chr07	24503296	CC	TT	TT	INTERGENIC		
SNP_52842_A_24503372	NC_021166.1	Ca_Kabuli_Chr07	24503372	GG	AA	AA	INTERGENIC		
SNP_52843_A_24503945	NC_021166.1	Ca_Kabuli_Chr07	24503945	TT	CC	CC	INTERGENIC		
SNP_52844_A_24504110	NC_021166.1	Ca_Kabuli_Chr07	24504110	TT	CC	CC	INTERGENIC		
SNP_52845_A_24504212	NC_021166.1	Ca_Kabuli_Chr07	24504212	GG	CC	CC	INTERGENIC		
SNP_52846_A_24504220	NC_021166.1	Ca_Kabuli_Chr07	24504220	CC	TT	TT	INTERGENIC		
SNP_52847_A_24505226	NC_021166.1	Ca_Kabuli_Chr07	24505226	TT	CC	CC	INTERGENIC		
SNP_52848_A_24525755	NC_021166.1	Ca_Kabuli_Chr07	24525755	TT	CC	CC	INTERGENIC		
SNP_52849_A_24525956	NC_021166.1	Ca_Kabuli_Chr07	24525956	CC	TT	TT	INTERGENIC		
SNP_52850_A_24526087	NC_021166.1	Ca_Kabuli_Chr07	24526087	AA	GG	GG	INTERGENIC		
SNP_52852_A_24526145	NC_021166.1	Ca_Kabuli_Chr07	24526145	AA	GG	GG	INTERGENIC		
SNP_52853_A_24534713	NC_021166.1	Ca_Kabuli_Chr07	24534713	GG	AA	AA	URR	101410563	transfer RNA serine (anticodon AGA)
SNP_52854_A_24543270	NC_021166.1	Ca_Kabuli_Chr07	24543270	TT	AA	AA	DRR	101498996	uncharacterized LOC101498996
SNP_52855_A_24556525	NC_021166.1	Ca_Kabuli_Chr07	24556525	AA	TT	TT	INTERGENIC		
SNP_52856_A_24556546	NC_021166.1	Ca_Kabuli_Chr07	24556546	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52857_A_24556593	NC_021166.1	Ca_Kabuli_Chr07	24556593	GG	AA	AA	INTERGENIC		
SNP_52858_A_24601586	NC_021166.1	Ca_Kabuli_Chr07	24601586	AA	GG	GG	URR	101504866	Unknown function
SNP_52859_A_24601910	NC_021166.1	Ca_Kabuli_Chr07	24601910	AA	GG	GG	URR	101504866	Unknown function
SNP_52860_A_24601912	NC_021166.1	Ca_Kabuli_Chr07	24601912	TT	GG	GG	URR	101504866	Unknown function
SNP_52861_A_24602193	NC_021166.1	Ca_Kabuli_Chr07	24602193	AA	CC	CC	INTERGENIC		
SNP_52862_A_24607578	NC_021166.1	Ca_Kabuli_Chr07	24607578	AA	CC	CC	INTERGENIC		
SNP_52863_A_24609798	NC_021166.1	Ca_Kabuli_Chr07	24609798	CC	TT	TT	INTERGENIC		
SNP_52864_A_24627323	NC_021166.1	Ca_Kabuli_Chr07	24627323	AA	GG	GG	INTERGENIC		
SNP_52865_A_24657819	NC_021166.1	Ca_Kabuli_Chr07	24657819	AA	GG	GG	INTERGENIC		
SNP_52867_A_24691213	NC_021166.1	Ca_Kabuli_Chr07	24691213	AA	GG	GG	INTRON	101500278	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290
SNP_52868_A_24710120	NC_021166.1	Ca_Kabuli_Chr07	24710120	GG	TT	TT	INTERGENIC		
SNP_52869_A_24710541	NC_021166.1	Ca_Kabuli_Chr07	24710541	CC	TT	TT	INTERGENIC		
SNP_52870_A_24710585	NC_021166.1	Ca_Kabuli_Chr07	24710585	AA	GG	GG	INTERGENIC		
SNP_52872_A_24750633	NC_021166.1	Ca_Kabuli_Chr07	24750633	TT	GG	GG	URR	101506143	uncharacterized LOC101506143
SNP_52873_A_24750635	NC_021166.1	Ca_Kabuli_Chr07	24750635	TT	CC	CC	URR	101506143	uncharacterized LOC101506143
SNP_52874_A_24750649	NC_021166.1	Ca_Kabuli_Chr07	24750649	AA	GG	GG	URR	101506143	uncharacterized LOC101506143
SNP_52875_A_24751381	NC_021166.1	Ca_Kabuli_Chr07	24751381	TT	CC	CC	URR	101506143	uncharacterized LOC101506143
SNP_52876_A_24774594	NC_021166.1	Ca_Kabuli_Chr07	24774594	AA	TT	TT	INTERGENIC		
SNP_52877_A_24775282	NC_021166.1	Ca_Kabuli_Chr07	24775282	GG	TT	TT	DRR	101501436	calcium-binding protein PBP1-like
SNP_52878_A_24775283	NC_021166.1	Ca_Kabuli_Chr07	24775283	AA	TT	TT	DRR	101501436	calcium-binding protein PBP1-like
SNP_52879_A_24800507	NC_021166.1	Ca_Kabuli_Chr07	24800507	TT	AA	AA	INTERGENIC		
SNP_52880_A_24850925	NC_021166.1	Ca_Kabuli_Chr07	24850925	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_52881_A_24851322	NC_021166.1	Ca_Kabuli_Chr07	24851322	TT	CC	CC	INTERGENIC			
SNP_52882_A_24856523	NC_021166.1	Ca_Kabuli_Chr07	24856523	CC	GG	GG	INTERGENIC			
SNP_52883_A_24856530	NC_021166.1	Ca_Kabuli_Chr07	24856530	TT	GG	GG	INTERGENIC			
SNP_52884_A_24856545	NC_021166.1	Ca_Kabuli_Chr07	24856545	CC	AA	AA	INTERGENIC			
SNP_52885_A_24856896	NC_021166.1	Ca_Kabuli_Chr07	24856896	AA	GG	GG	INTERGENIC			
SNP_52886_A_24856931	NC_021166.1	Ca_Kabuli_Chr07	24856931	TT	GG	GG	INTERGENIC			
SNP_52887_A_24856932	NC_021166.1	Ca_Kabuli_Chr07	24856932	CC	AA	AA	INTERGENIC			
SNP_52888_A_24863170	NC_021166.1	Ca_Kabuli_Chr07	24863170	CC	TT	TT	INTERGENIC			
SNP_52889_A_24870102	NC_021166.1	Ca_Kabuli_Chr07	24870102	AA	GG	GG	INTERGENIC			
SNP_52890_A_24870138	NC_021166.1	Ca_Kabuli_Chr07	24870138	CC	TT	TT	INTERGENIC			
SNP_52892_A_24924913	NC_021166.1	Ca_Kabuli_Chr07	24924913	AA	CC	CC	INTERGENIC			
SNP_52893_A_24924915	NC_021166.1	Ca_Kabuli_Chr07	24924915	CC	AA	AA	INTERGENIC			
SNP_52894_A_24949904	NC_021166.1	Ca_Kabuli_Chr07	24949904	AA	GG	GG	INTERGENIC			
SNP_52895_A_24992269	NC_021166.1	Ca_Kabuli_Chr07	24992269	AA	GG	GG	INTERGENIC			
SNP_52896_A_24992277	NC_021166.1	Ca_Kabuli_Chr07	24992277	AA	GG	GG	INTERGENIC			
SNP_52897_A_24992306	NC_021166.1	Ca_Kabuli_Chr07	24992306	TT	AA	AA	INTERGENIC			
SNP_52898_A_24998748	NC_021166.1	Ca_Kabuli_Chr07	24998748	GG	AA	AA	INTERGENIC			
SNP_52899_A_25030467	NC_021166.1	Ca_Kabuli_Chr07	25030467	GG	CC	CC	INTERGENIC			
SNP_52900_A_25030545	NC_021166.1	Ca_Kabuli_Chr07	25030545	CC	TT	TT	INTERGENIC			
SNP_52901_A_25030701	NC_021166.1	Ca_Kabuli_Chr07	25030701	GG	AA	AA	INTERGENIC			
SNP_52902_A_25030818	NC_021166.1	Ca_Kabuli_Chr07	25030818	TT	GG	GG	INTERGENIC			
SNP_52903_A_25031000	NC_021166.1	Ca_Kabuli_Chr07	25031000	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_52904_A_25031257	NC_021166.1	Ca_Kabuli_Chr07	25031257	AA	TT	TT	INTERGENIC		
SNP_52905_A_25031269	NC_021166.1	Ca_Kabuli_Chr07	25031269	AA	CC	CC	INTERGENIC		
SNP_52906_A_25031752	NC_021166.1	Ca_Kabuli_Chr07	25031752	AA	GG	GG	INTERGENIC		
SNP_52907_A_25057263	NC_021166.1	Ca_Kabuli_Chr07	25057263	TT	GG	GG	INTERGENIC		
SNP_52908_A_25069497	NC_021166.1	Ca_Kabuli_Chr07	25069497	TT	AA	AA	INTRON	101510858	uncharacterized LOC101510858
SNP_52909_A_25105060	NC_021166.1	Ca_Kabuli_Chr07	25105060	AA	GG	GG	INTERGENIC		
SNP_52910_A_25111088	NC_021166.1	Ca_Kabuli_Chr07	25111088	GG	AA	AA	INTERGENIC		
SNP_52912_A_25113354	NC_021166.1	Ca_Kabuli_Chr07	25113354	CC	AA	AA	INTERGENIC		
SNP_52913_A_25118828	NC_021166.1	Ca_Kabuli_Chr07	25118828	TT	CC	CC	INTERGENIC		
SNP_52914_A_25118841	NC_021166.1	Ca_Kabuli_Chr07	25118841	TT	CC	CC	INTERGENIC		
SNP_52915_A_25118861	NC_021166.1	Ca_Kabuli_Chr07	25118861	AA	GG	GG	INTERGENIC		
SNP_52916_A_25128350	NC_021166.1	Ca_Kabuli_Chr07	25128350	TT	GG	GG	INTERGENIC		
SNP_52917_A_25144616	NC_021166.1	Ca_Kabuli_Chr07	25144616	TT	CC	CC	NON_SYNONYMOUS_CODING	101511496	uncharacterized LOC101511496
SNP_52918_A_25144620	NC_021166.1	Ca_Kabuli_Chr07	25144620	TT	CC	CC	NON_SYNONYMOUS_CODING	101511496	uncharacterized LOC101511496
SNP_52919_A_25151338	NC_021166.1	Ca_Kabuli_Chr07	25151338	TT	AA	AA	INTRON	101511496	uncharacterized LOC101511496
SNP_52920_A_25151347	NC_021166.1	Ca_Kabuli_Chr07	25151347	GG	AA	AA	INTRON	101511496	uncharacterized LOC101511496
SNP_52921_A_25159783	NC_021166.1	Ca_Kabuli_Chr07	25159783	AA	CC	CC	INTERGENIC		
SNP_52922_A_25206093	NC_021166.1	Ca_Kabuli_Chr07	25206093	AA	GG	GG	DRR	101511824	uncharacterized LOC101511824
SNP_52923_A_25206440	NC_021166.1	Ca_Kabuli_Chr07	25206440	AA	GG	GG	DRR	101511824	uncharacterized LOC101511824
SNP_52924_A_25206666	NC_021166.1	Ca_Kabuli_Chr07	25206666	TT	CC	CC	SYNONYMOUS_CODING	101511824	uncharacterized LOC101511824
SNP_52925_A_25219173	NC_021166.1	Ca_Kabuli_Chr07	25219173	AA	GG	GG	INTERGENIC		
SNP_52926_A_25219455	NC_021166.1	Ca_Kabuli_Chr07	25219455	GG	AA	AA	INTERGENIC		

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SNP_52927_A_25225797	NC_021166.1	Ca_Kabuli_Chr07	25225797	TT	CC	CC	INTERGENIC			
SNP_52929_A_25259290	NC_021166.1	Ca_Kabuli_Chr07	25259290	AA	TT	TT	INTERGENIC			
SNP_52930_A_25277896	NC_021166.1	Ca_Kabuli_Chr07	25277896	TT	CC	CC	INTERGENIC			
SNP_52931_A_25278074	NC_021166.1	Ca_Kabuli_Chr07	25278074	TT	CC	CC	INTERGENIC			
SNP_52932_A_25278182	NC_021166.1	Ca_Kabuli_Chr07	25278182	TT	GG	GG	INTERGENIC			
SNP_52933_A_25278207	NC_021166.1	Ca_Kabuli_Chr07	25278207	GG	TT	TT	INTERGENIC			
SNP_52934_A_25278216	NC_021166.1	Ca_Kabuli_Chr07	25278216	CC	AA	AA	INTERGENIC			
SNP_52935_A_25278437	NC_021166.1	Ca_Kabuli_Chr07	25278437	AA	GG	GG	INTERGENIC			
SNP_52936_A_25278440	NC_021166.1	Ca_Kabuli_Chr07	25278440	TT	AA	AA	INTERGENIC			
SNP_52937_A_25278446	NC_021166.1	Ca_Kabuli_Chr07	25278446	TT	GG	GG	INTERGENIC			
SNP_52938_A_25278492	NC_021166.1	Ca_Kabuli_Chr07	25278492	CC	AA	AA	INTERGENIC			
SNP_52939_A_25278517	NC_021166.1	Ca_Kabuli_Chr07	25278517	CC	TT	TT	INTERGENIC			
SNP_52940_A_25278567	NC_021166.1	Ca_Kabuli_Chr07	25278567	CC	TT	TT	INTERGENIC			
SNP_52941_A_25278668	NC_021166.1	Ca_Kabuli_Chr07	25278668	TT	AA	AA	INTERGENIC			
SNP_52942_A_25278914	NC_021166.1	Ca_Kabuli_Chr07	25278914	AA	CC	CC	INTERGENIC			
SNP_52943_A_25278915	NC_021166.1	Ca_Kabuli_Chr07	25278915	AA	GG	GG	INTERGENIC			
SNP_52944_A_25278918	NC_021166.1	Ca_Kabuli_Chr07	25278918	TT	AA	AA	INTERGENIC			
SNP_52945_A_25278951	NC_021166.1	Ca_Kabuli_Chr07	25278951	AA	TT	TT	INTERGENIC			
SNP_52946_A_25295783	NC_021166.1	Ca_Kabuli_Chr07	25295783	AA	GG	GG	INTERGENIC			
SNP_52947_A_25305399	NC_021166.1	Ca_Kabuli_Chr07	25305399	AA	CC	CC	INTERGENIC			
SNP_52948_A_25328594	NC_021166.1	Ca_Kabuli_Chr07	25328594	GG	AA	AA	SYNONYMOUS_CODING	101514732	B3 domain-containing protein At3g25182-like	
SNP_52949_A_25346088	NC_021166.1	Ca_Kabuli_Chr07	25346088	GG	TT	TT	INTERGENIC			

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SNP_52950_A_25398479	NC_021166.1	Ca_Kabuli_Chr07	25398479	CC	GG	GG	INTERGENIC			
SNP_52951_A_25403097	NC_021166.1	Ca_Kabuli_Chr07	25403097	TT	CC	CC	INTERGENIC			
SNP_52952_A_25418271	NC_021166.1	Ca_Kabuli_Chr07	25418271	AA	GG	GG	INTERGENIC			
SNP_52953_A_25424008	NC_021166.1	Ca_Kabuli_Chr07	25424008	TT	CC	CC	INTERGENIC			
SNP_52954_A_25438058	NC_021166.1	Ca_Kabuli_Chr07	25438058	GG	AA	AA	INTERGENIC			
SNP_52955_A_25438352	NC_021166.1	Ca_Kabuli_Chr07	25438352	GG	AA	AA	INTERGENIC			
SNP_52956_A_25467303	NC_021166.1	Ca_Kabuli_Chr07	25467303	AA	CC	CC	INTERGENIC			
SNP_52957_A_25504850	NC_021166.1	Ca_Kabuli_Chr07	25504850	TT	GG	GG	INTERGENIC			
SNP_52958_A_25509175	NC_021166.1	Ca_Kabuli_Chr07	25509175	TT	CC	CC	INTERGENIC			
SNP_52959_A_25509802	NC_021166.1	Ca_Kabuli_Chr07	25509802	AA	CC	CC	INTERGENIC			
SNP_52960_A_25511590	NC_021166.1	Ca_Kabuli_Chr07	25511590	AA	GG	GG	INTERGENIC			
SNP_52961_A_25539595	NC_021166.1	Ca_Kabuli_Chr07	25539595	GG	TT	TT	INTERGENIC			
SNP_52962_A_25563179	NC_021166.1	Ca_Kabuli_Chr07	25563179	GG	AA	AA	INTERGENIC			
SNP_52963_A_25570144	NC_021166.1	Ca_Kabuli_Chr07	25570144	CC	TT	TT	INTRON	101509353	protein strawberry notch-like	
SNP_52965_A_25617939	NC_021166.1	Ca_Kabuli_Chr07	25617939	TT	CC	CC	INTERGENIC			
SNP_52967_A_25626902	NC_021166.1	Ca_Kabuli_Chr07	25626902	AA	GG	GG	INTERGENIC			
SNP_52968_A_25640454	NC_021166.1	Ca_Kabuli_Chr07	25640454	GG	CC	CC	INTRON	101490344	Unknown function	
SNP_52969_A_25640463	NC_021166.1	Ca_Kabuli_Chr07	25640463	AA	TT	TT	INTRON	101490344	Unknown function	
SNP_52970_A_25665843	NC_021166.1	Ca_Kabuli_Chr07	25665843	GG	AA	AA	INTRON	101488818	WD repeat-containing protein 25	
SNP_52971_A_25682363	NC_021166.1	Ca_Kabuli_Chr07	25682363	CC	TT	TT	INTERGENIC			
SNP_52972_A_25692450	NC_021166.1	Ca_Kabuli_Chr07	25692450	GG	AA	AA	INTERGENIC			
SNP_52973_A_25692452	NC_021166.1	Ca_Kabuli_Chr07	25692452	TT	CC	CC	INTERGENIC			

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SNP_52974_A_25696693	NC_021166.1	Ca_Kabuli_Chr07	25696693	CC	AA	AA	INTERGENIC			
SNP_52975_A_25706911	NC_021166.1	Ca_Kabuli_Chr07	25706911	GG	AA	AA	INTERGENIC			
SNP_52976_A_25725323	NC_021166.1	Ca_Kabuli_Chr07	25725323	AA	GG	GG	INTERGENIC			
SNP_52977_A_25732023	NC_021166.1	Ca_Kabuli_Chr07	25732023	CC	TT	TT	INTERGENIC			
SNP_52978_A_25752130	NC_021166.1	Ca_Kabuli_Chr07	25752130	CC	AA	AA	INTERGENIC			
SNP_52979_A_25774828	NC_021166.1	Ca_Kabuli_Chr07	25774828	TT	CC	CC	INTERGENIC			
SNP_52980_A_25790446	NC_021166.1	Ca_Kabuli_Chr07	25790446	GG	AA	AA	INTERGENIC			
SNP_52981_A_25816103	NC_021166.1	Ca_Kabuli_Chr07	25816103	TT	CC	CC	INTERGENIC			
SNP_52982_A_25816172	NC_021166.1	Ca_Kabuli_Chr07	25816172	CC	TT	TT	INTERGENIC			
SNP_52983_A_25833163	NC_021166.1	Ca_Kabuli_Chr07	25833163	TT	CC	CC	INTERGENIC			
SNP_52984_A_25833182	NC_021166.1	Ca_Kabuli_Chr07	25833182	TT	CC	CC	INTERGENIC			
SNP_52985_A_25833204	NC_021166.1	Ca_Kabuli_Chr07	25833204	GG	TT	TT	INTERGENIC			
SNP_52986_A_25833222	NC_021166.1	Ca_Kabuli_Chr07	25833222	TT	CC	CC	INTERGENIC			
SNP_52987_A_25833389	NC_021166.1	Ca_Kabuli_Chr07	25833389	CC	TT	TT	INTERGENIC			
SNP_52988_A_25833393	NC_021166.1	Ca_Kabuli_Chr07	25833393	CC	AA	AA	INTERGENIC			
SNP_52989_A_25833789	NC_021166.1	Ca_Kabuli_Chr07	25833789	TT	GG	GG	INTERGENIC			
SNP_52991_A_25834027	NC_021166.1	Ca_Kabuli_Chr07	25834027	GG	AA	AA	INTERGENIC			
SNP_52992_A_25834090	NC_021166.1	Ca_Kabuli_Chr07	25834090	GG	AA	AA	INTERGENIC			
SNP_52993_A_25834199	NC_021166.1	Ca_Kabuli_Chr07	25834199	CC	TT	TT	INTERGENIC			
SNP_52994_A_25862052	NC_021166.1	Ca_Kabuli_Chr07	25862052	GG	AA	AA	INTERGENIC			
SNP_52995_A_25862117	NC_021166.1	Ca_Kabuli_Chr07	25862117	TT	CC	CC	INTERGENIC			
SNP_52996_A_25862216	NC_021166.1	Ca_Kabuli_Chr07	25862216	AA	TT	TT	INTERGENIC			

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SNP_52997_A_25862312	NC_021166.1	Ca_Kabuli_Chr07	25862312	TT	AA	AA	INTERGENIC			
SNP_52998_A_25862496	NC_021166.1	Ca_Kabuli_Chr07	25862496	AA	TT	TT	INTERGENIC			
SNP_52999_A_25862531	NC_021166.1	Ca_Kabuli_Chr07	25862531	AA	GG	GG	INTERGENIC			
SNP_53000_A_25862534	NC_021166.1	Ca_Kabuli_Chr07	25862534	CC	GG	GG	INTERGENIC			
SNP_53001_A_25862577	NC_021166.1	Ca_Kabuli_Chr07	25862577	TT	GG	GG	INTERGENIC			
SNP_53003_A_25863321	NC_021166.1	Ca_Kabuli_Chr07	25863321	CC	TT	TT	INTERGENIC			
SNP_53004_A_25867556	NC_021166.1	Ca_Kabuli_Chr07	25867556	CC	TT	TT	INTERGENIC			
SNP_53005_A_25871997	NC_021166.1	Ca_Kabuli_Chr07	25871997	AA	TT	TT	INTERGENIC			
SNP_53006_A_25872279	NC_021166.1	Ca_Kabuli_Chr07	25872279	GG	AA	AA	INTERGENIC			
SNP_53007_A_25899884	NC_021166.1	Ca_Kabuli_Chr07	25899884	TT	CC	CC	INTERGENIC			
SNP_53008_A_25899922	NC_021166.1	Ca_Kabuli_Chr07	25899922	AA	CC	CC	INTERGENIC			
SNP_53009_A_25899937	NC_021166.1	Ca_Kabuli_Chr07	25899937	CC	AA	AA	INTERGENIC			
SNP_53010_A_25899980	NC_021166.1	Ca_Kabuli_Chr07	25899980	CC	TT	TT	INTERGENIC			
SNP_53011_A_25911418	NC_021166.1	Ca_Kabuli_Chr07	25911418	TT	CC	CC	INTERGENIC			
SNP_53012_A_25932432	NC_021166.1	Ca_Kabuli_Chr07	25932432	CC	TT	TT	INTERGENIC			
SNP_53013_A_25934160	NC_021166.1	Ca_Kabuli_Chr07	25934160	AA	GG	GG	INTERGENIC			
SNP_53014_A_25990379	NC_021166.1	Ca_Kabuli_Chr07	25990379	TT	CC	CC	INTERGENIC			
SNP_53015_A_25990551	NC_021166.1	Ca_Kabuli_Chr07	25990551	AA	TT	TT	INTERGENIC			
SNP_53017_A_26001890	NC_021166.1	Ca_Kabuli_Chr07	26001890	CC	GG	GG	INTERGENIC			
SNP_53018_A_26001925	NC_021166.1	Ca_Kabuli_Chr07	26001925	TT	AA	AA	INTERGENIC			
SNP_53019_A_26002012	NC_021166.1	Ca_Kabuli_Chr07	26002012	CC	GG	GG	INTERGENIC			
SNP_53020_A_26011616	NC_021166.1	Ca_Kabuli_Chr07	26011616	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53024_A_26128593	NC_021166.1	Ca_Kabuli_Chr07	26128593	AA	GG	GG	INTERGENIC		
SNP_53025_A_26154452	NC_021166.1	Ca_Kabuli_Chr07	26154452	AA	GG	GG	URR	101493262	myosin-2-like
SNP_53026_A_26155225	NC_021166.1	Ca_Kabuli_Chr07	26155225	CC	TT	TT	INTERGENIC		
SNP_53027_A_26155226	NC_021166.1	Ca_Kabuli_Chr07	26155226	CC	AA	AA	INTERGENIC		
SNP_53029_A_26160170	NC_021166.1	Ca_Kabuli_Chr07	26160170	CC	GG	GG	INTERGENIC		
SNP_53031_A_26160203	NC_021166.1	Ca_Kabuli_Chr07	26160203	CC	GG	GG	INTERGENIC		
SNP_53032_A_26160479	NC_021166.1	Ca_Kabuli_Chr07	26160479	CC	TT	TT	INTERGENIC		
SNP_53033_A_26160486	NC_021166.1	Ca_Kabuli_Chr07	26160486	AA	GG	GG	INTERGENIC		
SNP_53034_A_26160491	NC_021166.1	Ca_Kabuli_Chr07	26160491	CC	TT	TT	INTERGENIC		
SNP_53035_A_26160508	NC_021166.1	Ca_Kabuli_Chr07	26160508	AA	GG	GG	INTERGENIC		
SNP_53036_A_26160524	NC_021166.1	Ca_Kabuli_Chr07	26160524	AA	GG	GG	INTERGENIC		
SNP_53037_A_26160579	NC_021166.1	Ca_Kabuli_Chr07	26160579	TT	AA	AA	INTERGENIC		
SNP_53038_A_26162109	NC_021166.1	Ca_Kabuli_Chr07	26162109	GG	CC	CC	INTERGENIC		
SNP_53039_A_26168246	NC_021166.1	Ca_Kabuli_Chr07	26168246	AA	GG	GG	INTRON	101493583	Unknown function
SNP_53040_A_26168509	NC_021166.1	Ca_Kabuli_Chr07	26168509	AA	GG	GG	NON_SYNONYMOUS_CODING	101493583	Unknown function
SNP_53041_A_26171161	NC_021166.1	Ca_Kabuli_Chr07	26171161	CC	TT	TT	INTERGENIC		
SNP_53042_A_26171215	NC_021166.1	Ca_Kabuli_Chr07	26171215	GG	TT	TT	INTERGENIC		
SNP_53043_A_26171439	NC_021166.1	Ca_Kabuli_Chr07	26171439	CC	GG	GG	INTERGENIC		
SNP_53044_A_26171594	NC_021166.1	Ca_Kabuli_Chr07	26171594	AA	CC	CC	INTERGENIC		
SNP_53045_A_26171676	NC_021166.1	Ca_Kabuli_Chr07	26171676	TT	AA	AA	INTERGENIC		
SNP_53046_A_26172006	NC_021166.1	Ca_Kabuli_Chr07	26172006	AA	GG	GG	INTERGENIC		
SNP_53047_A_26176884	NC_021166.1	Ca_Kabuli_Chr07	26176884	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53048_A_26176902	NC_021166.1	Ca_Kabuli_Chr07	26176902	AA	CC	CC	INTERGENIC			
SNP_53049_A_26176960	NC_021166.1	Ca_Kabuli_Chr07	26176960	CC	TT	TT	INTERGENIC			
SNP_53050_A_26176961	NC_021166.1	Ca_Kabuli_Chr07	26176961	TT	AA	AA	INTERGENIC			
SNP_53051_A_26177198	NC_021166.1	Ca_Kabuli_Chr07	26177198	TT	CC	CC	INTERGENIC			
SNP_53052_A_26177359	NC_021166.1	Ca_Kabuli_Chr07	26177359	TT	CC	CC	INTERGENIC			
SNP_53053_A_26177410	NC_021166.1	Ca_Kabuli_Chr07	26177410	GG	TT	TT	INTERGENIC			
SNP_53054_A_26177478	NC_021166.1	Ca_Kabuli_Chr07	26177478	CC	TT	TT	INTERGENIC			
SNP_53055_A_26177549	NC_021166.1	Ca_Kabuli_Chr07	26177549	TT	CC	CC	INTERGENIC			
SNP_53056_A_26177802	NC_021166.1	Ca_Kabuli_Chr07	26177802	AA	GG	GG	INTERGENIC			
SNP_53057_A_26177835	NC_021166.1	Ca_Kabuli_Chr07	26177835	GG	TT	TT	INTERGENIC			
SNP_53058_A_26177841	NC_021166.1	Ca_Kabuli_Chr07	26177841	GG	AA	AA	INTERGENIC			
SNP_53059_A_26177894	NC_021166.1	Ca_Kabuli_Chr07	26177894	GG	AA	AA	INTERGENIC			
SNP_53060_A_26177896	NC_021166.1	Ca_Kabuli_Chr07	26177896	AA	GG	GG	INTERGENIC			
SNP_53062_A_26191020	NC_021166.1	Ca_Kabuli_Chr07	26191020	CC	TT	TT	INTERGENIC			
SNP_53063_A_26191158	NC_021166.1	Ca_Kabuli_Chr07	26191158	TT	CC	CC	INTERGENIC			
SNP_53064_A_26218453	NC_021166.1	Ca_Kabuli_Chr07	26218453	GG	AA	AA	INTERGENIC			
SNP_53065_A_26218527	NC_021166.1	Ca_Kabuli_Chr07	26218527	CC	TT	TT	INTERGENIC			
SNP_53066_A_26218604	NC_021166.1	Ca_Kabuli_Chr07	26218604	GG	TT	TT	INTERGENIC			
SNP_53067_A_26218731	NC_021166.1	Ca_Kabuli_Chr07	26218731	CC	AA	AA	INTERGENIC			
SNP_53068_A_26218746	NC_021166.1	Ca_Kabuli_Chr07	26218746	CC	GG	GG	INTERGENIC			
SNP_53069_A_26219927	NC_021166.1	Ca_Kabuli_Chr07	26219927	AA	CC	CC	INTERGENIC			
SNP_53070_A_26220257	NC_021166.1	Ca_Kabuli_Chr07	26220257	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53071_A_26220552	NC_021166.1	Ca_Kabuli_Chr07	26220552	TT	CC	CC	INTERGENIC			
SNP_53072_A_26220952	NC_021166.1	Ca_Kabuli_Chr07	26220952	GG	AA	AA	INTERGENIC			
SNP_53073_A_26221444	NC_021166.1	Ca_Kabuli_Chr07	26221444	AA	CC	CC	INTERGENIC			
SNP_53075_A_26221892	NC_021166.1	Ca_Kabuli_Chr07	26221892	AA	CC	CC	INTERGENIC			
SNP_53076_A_26221901	NC_021166.1	Ca_Kabuli_Chr07	26221901	CC	AA	AA	INTERGENIC			
SNP_53077_A_26222025	NC_021166.1	Ca_Kabuli_Chr07	26222025	CC	TT	TT	INTERGENIC			
SNP_53078_A_26222145	NC_021166.1	Ca_Kabuli_Chr07	26222145	AA	GG	GG	INTERGENIC			
SNP_53079_A_26223411	NC_021166.1	Ca_Kabuli_Chr07	26223411	TT	CC	CC	INTERGENIC			
SNP_53080_A_26223479	NC_021166.1	Ca_Kabuli_Chr07	26223479	AA	GG	GG	INTERGENIC			
SNP_53081_A_26223755	NC_021166.1	Ca_Kabuli_Chr07	26223755	GG	AA	AA	INTERGENIC			
SNP_53082_A_26223931	NC_021166.1	Ca_Kabuli_Chr07	26223931	AA	CC	CC	INTERGENIC			
SNP_53083_A_26224008	NC_021166.1	Ca_Kabuli_Chr07	26224008	GG	TT	TT	INTERGENIC			
SNP_53084_A_26224061	NC_021166.1	Ca_Kabuli_Chr07	26224061	CC	TT	TT	INTERGENIC			
SNP_53085_A_26224664	NC_021166.1	Ca_Kabuli_Chr07	26224664	AA	GG	GG	INTERGENIC			
SNP_53086_A_26224815	NC_021166.1	Ca_Kabuli_Chr07	26224815	AA	TT	TT	INTERGENIC			
SNP_53087_A_26225610	NC_021166.1	Ca_Kabuli_Chr07	26225610	AA	CC	CC	INTERGENIC			
SNP_53088_A_26226146	NC_021166.1	Ca_Kabuli_Chr07	26226146	GG	CC	CC	INTERGENIC			
SNP_53089_A_26226400	NC_021166.1	Ca_Kabuli_Chr07	26226400	AA	CC	CC	INTERGENIC			
SNP_53090_A_26226779	NC_021166.1	Ca_Kabuli_Chr07	26226779	CC	TT	TT	INTERGENIC			
SNP_53091_A_26227566	NC_021166.1	Ca_Kabuli_Chr07	26227566	CC	TT	TT	INTERGENIC			
SNP_53092_A_26228010	NC_021166.1	Ca_Kabuli_Chr07	26228010	AA	CC	CC	INTERGENIC			
SNP_53093_A_26228014	NC_021166.1	Ca_Kabuli_Chr07	26228014	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53095_A_26228664	NC_021166.1	Ca_Kabuli_Chr07	26228664	CC	TT	TT	INTERGENIC			
SNP_53096_A_26228984	NC_021166.1	Ca_Kabuli_Chr07	26228984	GG	TT	TT	INTERGENIC			
SNP_53097_A_26229150	NC_021166.1	Ca_Kabuli_Chr07	26229150	GG	TT	TT	INTERGENIC			
SNP_53098_A_26229429	NC_021166.1	Ca_Kabuli_Chr07	26229429	CC	TT	TT	INTERGENIC			
SNP_53099_A_26229459	NC_021166.1	Ca_Kabuli_Chr07	26229459	TT	GG	GG	INTERGENIC			
SNP_53100_A_26229510	NC_021166.1	Ca_Kabuli_Chr07	26229510	GG	AA	AA	INTERGENIC			
SNP_53101_A_26229614	NC_021166.1	Ca_Kabuli_Chr07	26229614	GG	AA	AA	INTERGENIC			
SNP_53102_A_26229793	NC_021166.1	Ca_Kabuli_Chr07	26229793	CC	TT	TT	INTERGENIC			
SNP_53103_A_26229799	NC_021166.1	Ca_Kabuli_Chr07	26229799	AA	GG	GG	INTERGENIC			
SNP_53104_A_26229817	NC_021166.1	Ca_Kabuli_Chr07	26229817	AA	CC	CC	INTERGENIC			
SNP_53105_A_26230403	NC_021166.1	Ca_Kabuli_Chr07	26230403	CC	TT	TT	INTERGENIC			
SNP_53106_A_26230811	NC_021166.1	Ca_Kabuli_Chr07	26230811	TT	CC	CC	INTERGENIC			
SNP_53107_A_26230922	NC_021166.1	Ca_Kabuli_Chr07	26230922	GG	AA	AA	INTERGENIC			
SNP_53108_A_26231034	NC_021166.1	Ca_Kabuli_Chr07	26231034	CC	AA	AA	INTERGENIC			
SNP_53109_A_26231717	NC_021166.1	Ca_Kabuli_Chr07	26231717	CC	TT	TT	INTERGENIC			
SNP_53110_A_26232059	NC_021166.1	Ca_Kabuli_Chr07	26232059	TT	AA	AA	INTERGENIC			
SNP_53111_A_26232248	NC_021166.1	Ca_Kabuli_Chr07	26232248	TT	AA	AA	INTERGENIC			
SNP_53112_A_26232464	NC_021166.1	Ca_Kabuli_Chr07	26232464	AA	CC	CC	INTERGENIC			
SNP_53113_A_26232640	NC_021166.1	Ca_Kabuli_Chr07	26232640	AA	GG	GG	INTERGENIC			
SNP_53114_A_26232919	NC_021166.1	Ca_Kabuli_Chr07	26232919	AA	TT	TT	INTERGENIC			
SNP_53116_A_26234078	NC_021166.1	Ca_Kabuli_Chr07	26234078	GG	TT	TT	INTERGENIC			
SNP_53117_A_26234109	NC_021166.1	Ca_Kabuli_Chr07	26234109	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53118_A_26234682	NC_021166.1	Ca_Kabuli_Chr07	26234682	CC	TT	TT	INTERGENIC			
SNP_53119_A_26234774	NC_021166.1	Ca_Kabuli_Chr07	26234774	CC	TT	TT	INTERGENIC			
SNP_53120_A_26235069	NC_021166.1	Ca_Kabuli_Chr07	26235069	TT	CC	CC	INTERGENIC			
SNP_53122_A_26235896	NC_021166.1	Ca_Kabuli_Chr07	26235896	AA	GG	GG	INTERGENIC			
SNP_53123_A_26236327	NC_021166.1	Ca_Kabuli_Chr07	26236327	GG	AA	AA	INTERGENIC			
SNP_53124_A_26236362	NC_021166.1	Ca_Kabuli_Chr07	26236362	TT	AA	AA	INTERGENIC			
SNP_53125_A_26236447	NC_021166.1	Ca_Kabuli_Chr07	26236447	AA	CC	CC	INTERGENIC			
SNP_53126_A_26237245	NC_021166.1	Ca_Kabuli_Chr07	26237245	CC	TT	TT	INTERGENIC			
SNP_53127_A_26237262	NC_021166.1	Ca_Kabuli_Chr07	26237262	GG	AA	AA	INTERGENIC			
SNP_53128_A_26237312	NC_021166.1	Ca_Kabuli_Chr07	26237312	GG	TT	TT	INTERGENIC			
SNP_53129_A_26237567	NC_021166.1	Ca_Kabuli_Chr07	26237567	CC	AA	AA	INTERGENIC			
SNP_53130_A_26237697	NC_021166.1	Ca_Kabuli_Chr07	26237697	TT	AA	AA	INTERGENIC			
SNP_53131_A_26238151	NC_021166.1	Ca_Kabuli_Chr07	26238151	CC	TT	TT	DRR	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53132_A_26238516	NC_021166.1	Ca_Kabuli_Chr07	26238516	TT	CC	CC	DRR	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53133_A_26239860	NC_021166.1	Ca_Kabuli_Chr07	26239860	GG	AA	AA	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53134_A_26240179	NC_021166.1	Ca_Kabuli_Chr07	26240179	AA	GG	GG	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53136_A_26240587	NC_021166.1	Ca_Kabuli_Chr07	26240587	TT	CC	CC	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53137_A_26240588	NC_021166.1	Ca_Kabuli_Chr07	26240588	GG	AA	AA	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53138_A_26240589	NC_021166.1	Ca_Kabuli_Chr07	26240589	AA	TT	TT	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53139_A_26240592	NC_021166.1	Ca_Kabuli_Chr07	26240592	AA	TT	TT	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53140_A_26240695	NC_021166.1	Ca_Kabuli_Chr07	26240695	TT	AA	AA	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	
SNP_53141_A_26245030	NC_021166.1	Ca_Kabuli_Chr07	26245030	AA	CC	CC	INTRON	101493899	homeobox-leucine zipper protein HDG12-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53142_A_26245715	NC_021166.1	Ca_Kabuli_Chr07	26245715	AA	GG	GG	SYNONYMOUS_CODING	101493899	homeobox-leucine zipper protein HDG12-like
SNP_53143_A_26248225	NC_021166.1	Ca_Kabuli_Chr07	26248225	GG	AA	AA	INTERGENIC		
SNP_53144_A_26258803	NC_021166.1	Ca_Kabuli_Chr07	26258803	GG	TT	TT	INTERGENIC		
SNP_53145_A_26258812	NC_021166.1	Ca_Kabuli_Chr07	26258812	CC	TT	TT	INTERGENIC		
SNP_53146_A_26259873	NC_021166.1	Ca_Kabuli_Chr07	26259873	GG	AA	AA	INTERGENIC		
SNP_53147_A_26260112	NC_021166.1	Ca_Kabuli_Chr07	26260112	GG	AA	AA	INTERGENIC		
SNP_53148_A_26260197	NC_021166.1	Ca_Kabuli_Chr07	26260197	TT	CC	CC	INTERGENIC		
SNP_53149_A_26260372	NC_021166.1	Ca_Kabuli_Chr07	26260372	CC	TT	TT	INTERGENIC		
SNP_53150_A_26260952	NC_021166.1	Ca_Kabuli_Chr07	26260952	TT	AA	AA	INTERGENIC		
SNP_53151_A_26261404	NC_021166.1	Ca_Kabuli_Chr07	26261404	GG	AA	AA	INTERGENIC		
SNP_53152_A_26263500	NC_021166.1	Ca_Kabuli_Chr07	26263500	AA	GG	GG	DRR	101494224	Unknown function
SNP_53153_A_26263664	NC_021166.1	Ca_Kabuli_Chr07	26263664	GG	AA	AA	DRR	101494224	Unknown function
SNP_53154_A_26264028	NC_021166.1	Ca_Kabuli_Chr07	26264028	GG	AA	AA	INTRON	101494224	Unknown function
SNP_53155_A_26264104	NC_021166.1	Ca_Kabuli_Chr07	26264104	GG	TT	TT	INTRON	101494224	Unknown function
SNP_53156_A_26264506	NC_021166.1	Ca_Kabuli_Chr07	26264506	CC	TT	TT	INTRON	101494224	Unknown function
SNP_53157_A_26264697	NC_021166.1	Ca_Kabuli_Chr07	26264697	GG	TT	TT	NON_SYNONYMOUS_CODING	101494224	Unknown function
SNP_53158_A_26265483	NC_021166.1	Ca_Kabuli_Chr07	26265483	GG	AA	AA	INTRON	101494224	Unknown function
SNP_53159_A_26266063	NC_021166.1	Ca_Kabuli_Chr07	26266063	TT	CC	CC	INTRON	101494224	Unknown function
SNP_53160_A_26266678	NC_021166.1	Ca_Kabuli_Chr07	26266678	TT	CC	CC	URR	101494224	Unknown function
SNP_53161_A_26267033	NC_021166.1	Ca_Kabuli_Chr07	26267033	AA	GG	GG	URR	101494224	Unknown function
SNP_53162_A_26267387	NC_021166.1	Ca_Kabuli_Chr07	26267387	AA	GG	GG	URR	101494224	Unknown function
SNP_53163_A_26268053	NC_021166.1	Ca_Kabuli_Chr07	26268053	TT	CC	CC	URR	101494224	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53164_A_26268529	NC_021166.1	Ca_Kabuli_Chr07	26268529	AA	GG	GG	INTERGENIC		
SNP_53165_A_26271232	NC_021166.1	Ca_Kabuli_Chr07	26271232	CC	TT	TT	INTERGENIC		
SNP_53166_A_26271487	NC_021166.1	Ca_Kabuli_Chr07	26271487	CC	TT	TT	INTERGENIC		
SNP_53167_A_26271493	NC_021166.1	Ca_Kabuli_Chr07	26271493	GG	AA	AA	INTERGENIC		
SNP_53168_A_26271694	NC_021166.1	Ca_Kabuli_Chr07	26271694	TT	GG	GG	INTERGENIC		
SNP_53169_A_26273256	NC_021166.1	Ca_Kabuli_Chr07	26273256	TT	AA	AA	INTERGENIC		
SNP_53170_A_26273257	NC_021166.1	Ca_Kabuli_Chr07	26273257	TT	GG	GG	INTERGENIC		
SNP_53171_A_26277488	NC_021166.1	Ca_Kabuli_Chr07	26277488	TT	CC	CC	INTERGENIC		
SNP_53172_A_26277672	NC_021166.1	Ca_Kabuli_Chr07	26277672	GG	AA	AA	INTERGENIC		
SNP_53173_A_26311709	NC_021166.1	Ca_Kabuli_Chr07	26311709	TT	GG	GG	INTRON	101505278	uncharacterized LOC101505278
SNP_53174_A_26315481	NC_021166.1	Ca_Kabuli_Chr07	26315481	TT	CC	CC	INTRON	101505278	uncharacterized LOC101505278
SNP_53176_A_26353019	NC_021166.1	Ca_Kabuli_Chr07	26353019	CC	TT	TT	INTRON	101505931	Unknown function
SNP_53177_A_26375906	NC_021166.1	Ca_Kabuli_Chr07	26375906	CC	TT	TT	INTERGENIC		
SNP_53178_A_26376213	NC_021166.1	Ca_Kabuli_Chr07	26376213	CC	GG	GG	INTERGENIC		
SNP_53179_A_26399813	NC_021166.1	Ca_Kabuli_Chr07	26399813	GG	TT	TT	INTERGENIC		
SNP_53180_A_26437452	NC_021166.1	Ca_Kabuli_Chr07	26437452	GG	AA	AA	INTERGENIC		
SNP_53181_A_26437453	NC_021166.1	Ca_Kabuli_Chr07	26437453	TT	CC	CC	INTERGENIC		
SNP_53182_A_26450405	NC_021166.1	Ca_Kabuli_Chr07	26450405	TT	GG	GG	INTERGENIC		
SNP_53183_A_26450423	NC_021166.1	Ca_Kabuli_Chr07	26450423	GG	TT	TT	INTERGENIC		
SNP_53184_A_26450444	NC_021166.1	Ca_Kabuli_Chr07	26450444	AA	GG	GG	INTERGENIC		
SNP_53185_A_26450489	NC_021166.1	Ca_Kabuli_Chr07	26450489	AA	GG	GG	INTERGENIC		
SNP_53186_A_26450533	NC_021166.1	Ca_Kabuli_Chr07	26450533	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53187_A_26450608	NC_021166.1	Ca_Kabuli_Chr07	26450608	GG	AA	AA	INTERGENIC			
SNP_53188_A_26450620	NC_021166.1	Ca_Kabuli_Chr07	26450620	CC	TT	TT	INTERGENIC			
SNP_53189_A_26475565	NC_021166.1	Ca_Kabuli_Chr07	26475565	CC	TT	TT	INTERGENIC			
SNP_53190_A_26550495	NC_021166.1	Ca_Kabuli_Chr07	26550495	CC	TT	TT	INTERGENIC			
SNP_53191_A_26575175	NC_021166.1	Ca_Kabuli_Chr07	26575175	TT	CC	CC	INTERGENIC			
SNP_53192_A_26598149	NC_021166.1	Ca_Kabuli_Chr07	26598149	GG	AA	AA	INTERGENIC			
SNP_53193_A_26639494	NC_021166.1	Ca_Kabuli_Chr07	26639494	AA	CC	CC	INTERGENIC			
SNP_53194_A_26639499	NC_021166.1	Ca_Kabuli_Chr07	26639499	AA	GG	GG	INTERGENIC			
SNP_53195_A_26639514	NC_021166.1	Ca_Kabuli_Chr07	26639514	GG	AA	AA	INTERGENIC			
SNP_53196_A_26639523	NC_021166.1	Ca_Kabuli_Chr07	26639523	CC	TT	TT	INTERGENIC			
SNP_53197_A_26639524	NC_021166.1	Ca_Kabuli_Chr07	26639524	AA	GG	GG	INTERGENIC			
SNP_53198_A_26639534	NC_021166.1	Ca_Kabuli_Chr07	26639534	CC	TT	TT	INTERGENIC			
SNP_53199_A_26643361	NC_021166.1	Ca_Kabuli_Chr07	26643361	AA	TT	TT	INTERGENIC			
SNP_53200_A_26643778	NC_021166.1	Ca_Kabuli_Chr07	26643778	AA	TT	TT	INTERGENIC			
SNP_53201_A_26649724	NC_021166.1	Ca_Kabuli_Chr07	26649724	AA	CC	CC	INTERGENIC			
SNP_53203_A_26672053	NC_021166.1	Ca_Kabuli_Chr07	26672053	CC	TT	TT	INTRON	101496374	uncharacterized LOC101496374	
SNP_53204_A_26691926	NC_021166.1	Ca_Kabuli_Chr07	26691926	CC	TT	TT	URR	101496374	uncharacterized LOC101496374	
SNP_53205_A_26694588	NC_021166.1	Ca_Kabuli_Chr07	26694588	TT	CC	CC	DRR	101507236	Unknown function	
SNP_53207_A_26694825	NC_021166.1	Ca_Kabuli_Chr07	26694825	CC	AA	AA	DRR	101507236	Unknown function	
SNP_53208_A_26694829	NC_021166.1	Ca_Kabuli_Chr07	26694829	TT	CC	CC	DRR	101507236	Unknown function	
SNP_53209_A_26694863	NC_021166.1	Ca_Kabuli_Chr07	26694863	AA	CC	CC	DRR	101507236	Unknown function	
SNP_53210_A_26695291	NC_021166.1	Ca_Kabuli_Chr07	26695291	TT	CC	CC	SYNONYMOUS_CODING	101507236	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53211_A_26698614	NC_021166.1	Ca_Kabuli_Chr07	26698614	CC	AA	AA	INTRON	101507236	Unknown function
SNP_53212_A_26699275	NC_021166.1	Ca_Kabuli_Chr07	26699275	AA	GG	GG	INTRON	101507236	Unknown function
SNP_53213_A_26699289	NC_021166.1	Ca_Kabuli_Chr07	26699289	AA	GG	GG	INTRON	101507236	Unknown function
SNP_53214_A_26699344	NC_021166.1	Ca_Kabuli_Chr07	26699344	CC	GG	GG	INTRON	101507236	Unknown function
SNP_53215_A_26699346	NC_021166.1	Ca_Kabuli_Chr07	26699346	AA	GG	GG	INTRON	101507236	Unknown function
SNP_53216_A_26699366	NC_021166.1	Ca_Kabuli_Chr07	26699366	AA	GG	GG	INTRON	101507236	Unknown function
SNP_53217_A_26699415	NC_021166.1	Ca_Kabuli_Chr07	26699415	CC	TT	TT	INTRON	101507236	Unknown function
SNP_53218_A_26699765	NC_021166.1	Ca_Kabuli_Chr07	26699765	TT	CC	CC	INTRON	101507236	Unknown function
SNP_53219_A_26699787	NC_021166.1	Ca_Kabuli_Chr07	26699787	AA	GG	GG	INTRON	101507236	Unknown function
SNP_53220_A_26699890	NC_021166.1	Ca_Kabuli_Chr07	26699890	TT	CC	CC	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53221_A_26699899	NC_021166.1	Ca_Kabuli_Chr07	26699899	TT	CC	CC	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53223_A_26699943	NC_021166.1	Ca_Kabuli_Chr07	26699943	AA	GG	GG	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53224_A_26700038	NC_021166.1	Ca_Kabuli_Chr07	26700038	TT	AA	AA	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53225_A_26700316	NC_021166.1	Ca_Kabuli_Chr07	26700316	AA	GG	GG	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53226_A_26700368	NC_021166.1	Ca_Kabuli_Chr07	26700368	CC	GG	GG	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53227_A_26700373	NC_021166.1	Ca_Kabuli_Chr07	26700373	TT	CC	CC	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53228_A_26700382	NC_021166.1	Ca_Kabuli_Chr07	26700382	TT	CC	CC	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53229_A_26700395	NC_021166.1	Ca_Kabuli_Chr07	26700395	AA	GG	GG	SYNONYMOUS_CODING	101507236	Unknown function
SNP_53230_A_26700412	NC_021166.1	Ca_Kabuli_Chr07	26700412	AA	GG	GG	NON_SYNONYMOUS_CODING	101507236	Unknown function
SNP_53231_A_26700803	NC_021166.1	Ca_Kabuli_Chr07	26700803	TT	GG	GG	URR	101507236	Unknown function
SNP_53232_A_26700879	NC_021166.1	Ca_Kabuli_Chr07	26700879	TT	CC	CC	URR	101507236	Unknown function
SNP_53233_A_26700892	NC_021166.1	Ca_Kabuli_Chr07	26700892	CC	GG	GG	URR	101507236	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53234_A_26700953	NC_021166.1	Ca_Kabuli_Chr07	26700953	AA	GG	GG	URR	101507236	Unknown function
SNP_53235_A_26700955	NC_021166.1	Ca_Kabuli_Chr07	26700955	TT	AA	AA	URR	101507236	Unknown function
SNP_53236_A_26700969	NC_021166.1	Ca_Kabuli_Chr07	26700969	TT	CC	CC	URR	101507236	Unknown function
SNP_53238_A_26701396	NC_021166.1	Ca_Kabuli_Chr07	26701396	GG	CC	CC	DRR	101507551	Unknown function
SNP_53239_A_26701489	NC_021166.1	Ca_Kabuli_Chr07	26701489	CC	AA	AA	DRR	101507551	Unknown function
SNP_53241_A_26701540	NC_021166.1	Ca_Kabuli_Chr07	26701540	AA	CC	CC	DRR	101507551	Unknown function
SNP_53242_A_26701579	NC_021166.1	Ca_Kabuli_Chr07	26701579	GG	CC	CC	DRR	101507551	Unknown function
SNP_53243_A_26701606	NC_021166.1	Ca_Kabuli_Chr07	26701606	GG	AA	AA	DRR	101507551	Unknown function
SNP_53244_A_26702198	NC_021166.1	Ca_Kabuli_Chr07	26702198	TT	CC	CC	DRR	101507865	Unknown function
SNP_53245_A_26702313	NC_021166.1	Ca_Kabuli_Chr07	26702313	TT	CC	CC	DRR	101507865	Unknown function
SNP_53246_A_26702829	NC_021166.1	Ca_Kabuli_Chr07	26702829	CC	TT	TT	INTERGENIC		
SNP_53247_A_26702861	NC_021166.1	Ca_Kabuli_Chr07	26702861	AA	GG	GG	URR	101507551	Unknown function
SNP_53248_A_26702914	NC_021166.1	Ca_Kabuli_Chr07	26702914	AA	CC	CC	URR	101507551	Unknown function
SNP_53249_A_26702922	NC_021166.1	Ca_Kabuli_Chr07	26702922	AA	CC	CC	URR	101507551	Unknown function
SNP_53250_A_26703209	NC_021166.1	Ca_Kabuli_Chr07	26703209	AA	GG	GG	URR	101507551	Unknown function
SNP_53251_A_26703222	NC_021166.1	Ca_Kabuli_Chr07	26703222	AA	GG	GG	URR	101507551	Unknown function
SNP_53252_A_26703238	NC_021166.1	Ca_Kabuli_Chr07	26703238	GG	CC	CC	URR	101507551	Unknown function
SNP_53253_A_26703250	NC_021166.1	Ca_Kabuli_Chr07	26703250	TT	GG	GG	URR	101507551	Unknown function
SNP_53254_A_26703290	NC_021166.1	Ca_Kabuli_Chr07	26703290	AA	GG	GG	URR	101507551	Unknown function
SNP_53255_A_26717813	NC_021166.1	Ca_Kabuli_Chr07	26717813	CC	TT	TT	INTERGENIC		
SNP_53256_A_26720899	NC_021166.1	Ca_Kabuli_Chr07	26720899	AA	TT	TT	INTERGENIC		
SNP_53257_A_26730534	NC_021166.1	Ca_Kabuli_Chr07	26730534	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53258_A_26754795	NC_021166.1	Ca_Kabuli_Chr07	26754795	TT	CC	CC	INTERGENIC			
SNP_53259_A_26754803	NC_021166.1	Ca_Kabuli_Chr07	26754803	AA	GG	GG	INTERGENIC			
SNP_53260_A_26758043	NC_021166.1	Ca_Kabuli_Chr07	26758043	CC	AA	AA	INTERGENIC			
SNP_53261_A_26758473	NC_021166.1	Ca_Kabuli_Chr07	26758473	TT	CC	CC	INTERGENIC			
SNP_53262_A_26799087	NC_021166.1	Ca_Kabuli_Chr07	26799087	GG	TT	TT	INTERGENIC			
SNP_53263_A_26799359	NC_021166.1	Ca_Kabuli_Chr07	26799359	AA	GG	GG	INTERGENIC			
SNP_53264_A_26799370	NC_021166.1	Ca_Kabuli_Chr07	26799370	CC	TT	TT	INTERGENIC			
SNP_53266_A_26799466	NC_021166.1	Ca_Kabuli_Chr07	26799466	GG	AA	AA	INTERGENIC			
SNP_53267_A_26799468	NC_021166.1	Ca_Kabuli_Chr07	26799468	AA	CC	CC	INTERGENIC			
SNP_53268_A_26828126	NC_021166.1	Ca_Kabuli_Chr07	26828126	GG	CC	CC	INTERGENIC			
SNP_53269_A_26842428	NC_021166.1	Ca_Kabuli_Chr07	26842428	CC	TT	TT	INTERGENIC			
SNP_53270_A_26868198	NC_021166.1	Ca_Kabuli_Chr07	26868198	AA	CC	CC	INTERGENIC			
SNP_53271_A_26869900	NC_021166.1	Ca_Kabuli_Chr07	26869900	GG	AA	AA	INTERGENIC			
SNP_53273_A_26981489	NC_021166.1	Ca_Kabuli_Chr07	26981489	TT	GG	GG	INTERGENIC			
SNP_53274_A_26994485	NC_021166.1	Ca_Kabuli_Chr07	26994485	AA	TT	TT	INTERGENIC			
SNP_53275_A_27009595	NC_021166.1	Ca_Kabuli_Chr07	27009595	CC	AA	AA	INTERGENIC			
SNP_53276_A_27009615	NC_021166.1	Ca_Kabuli_Chr07	27009615	CC	TT	TT	INTERGENIC			
SNP_53277_A_27009735	NC_021166.1	Ca_Kabuli_Chr07	27009735	GG	AA	AA	INTERGENIC			
SNP_53278_A_27009743	NC_021166.1	Ca_Kabuli_Chr07	27009743	TT	CC	CC	INTERGENIC			
SNP_53279_A_27018623	NC_021166.1	Ca_Kabuli_Chr07	27018623	AA	CC	CC	INTERGENIC			
SNP_53280_A_27025245	NC_021166.1	Ca_Kabuli_Chr07	27025245	CC	TT	TT	INTERGENIC			
SNP_53281_A_27034861	NC_021166.1	Ca_Kabuli_Chr07	27034861	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53282_A_27043293	NC_021166.1	Ca_Kabuli_Chr07	27043293	CC	AA	AA	INTERGENIC			
SNP_53283_A_27043427	NC_021166.1	Ca_Kabuli_Chr07	27043427	AA	GG	GG	INTERGENIC			
SNP_53284_A_27046102	NC_021166.1	Ca_Kabuli_Chr07	27046102	CC	TT	TT	INTERGENIC			
SNP_53285_A_27070100	NC_021166.1	Ca_Kabuli_Chr07	27070100	CC	TT	TT	INTERGENIC			
SNP_53286_A_27070162	NC_021166.1	Ca_Kabuli_Chr07	27070162	GG	AA	AA	INTERGENIC			
SNP_53287_A_27070179	NC_021166.1	Ca_Kabuli_Chr07	27070179	AA	TT	TT	INTERGENIC			
SNP_53288_A_27070190	NC_021166.1	Ca_Kabuli_Chr07	27070190	GG	TT	TT	INTERGENIC			
SNP_53289_A_27077912	NC_021166.1	Ca_Kabuli_Chr07	27077912	AA	CC	CC	INTERGENIC			
SNP_53290_A_27097401	NC_021166.1	Ca_Kabuli_Chr07	27097401	GG	AA	AA	INTERGENIC			
SNP_53292_A_27126759	NC_021166.1	Ca_Kabuli_Chr07	27126759	CC	TT	TT	INTERGENIC			
SNP_53293_A_27187294	NC_021166.1	Ca_Kabuli_Chr07	27187294	CC	AA	AA	INTERGENIC			
SNP_53294_A_27187485	NC_021166.1	Ca_Kabuli_Chr07	27187485	GG	AA	AA	INTERGENIC			
SNP_53295_A_27257429	NC_021166.1	Ca_Kabuli_Chr07	27257429	AA	GG	GG	INTERGENIC			
SNP_53297_A_27332393	NC_021166.1	Ca_Kabuli_Chr07	27332393	AA	GG	GG	INTERGENIC			
SNP_53298_A_27332425	NC_021166.1	Ca_Kabuli_Chr07	27332425	AA	GG	GG	INTERGENIC			
SNP_53299_A_27336911	NC_021166.1	Ca_Kabuli_Chr07	27336911	TT	CC	CC	INTERGENIC			
SNP_53300_A_27341222	NC_021166.1	Ca_Kabuli_Chr07	27341222	AA	GG	GG	INTERGENIC			
SNP_53301_A_27341371	NC_021166.1	Ca_Kabuli_Chr07	27341371	CC	TT	TT	INTERGENIC			
SNP_53302_A_27341388	NC_021166.1	Ca_Kabuli_Chr07	27341388	AA	GG	GG	INTERGENIC			
SNP_53303_A_27341391	NC_021166.1	Ca_Kabuli_Chr07	27341391	TT	AA	AA	INTERGENIC			
SNP_53304_A_27341636	NC_021166.1	Ca_Kabuli_Chr07	27341636	TT	CC	CC	INTERGENIC			
SNP_53306_A_27348707	NC_021166.1	Ca_Kabuli_Chr07	27348707	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53307_A_27353115	NC_021166.1	Ca_Kabuli_Chr07	27353115	GG	AA	AA	INTERGENIC		
SNP_53308_A_27357312	NC_021166.1	Ca_Kabuli_Chr07	27357312	AA	GG	GG	INTERGENIC		
SNP_53309_A_27361060	NC_021166.1	Ca_Kabuli_Chr07	27361060	GG	TT	TT	NON_SYNONYMOUS_CODING	101512032	uncharacterized LOC101512032
SNP_53310_A_27386580	NC_021166.1	Ca_Kabuli_Chr07	27386580	TT	CC	CC	INTERGENIC		
SNP_53311_A_27390299	NC_021166.1	Ca_Kabuli_Chr07	27390299	TT	AA	AA	DRR	101500699	peroxidase P7-like
SNP_53312_A_27437577	NC_021166.1	Ca_Kabuli_Chr07	27437577	GG	AA	AA	INTERGENIC		
SNP_53313_A_27458629	NC_021166.1	Ca_Kabuli_Chr07	27458629	AA	CC	CC	INTRON	101513001	Unknown function
SNP_53314_A_27458631	NC_021166.1	Ca_Kabuli_Chr07	27458631	TT	AA	AA	INTRON	101513001	Unknown function
SNP_53315_A_27488019	NC_021166.1	Ca_Kabuli_Chr07	27488019	AA	GG	GG	INTERGENIC		
SNP_53316_A_27502458	NC_021166.1	Ca_Kabuli_Chr07	27502458	GG	AA	AA	INTERGENIC		
SNP_53317_A_27509734	NC_021166.1	Ca_Kabuli_Chr07	27509734	TT	CC	CC	INTERGENIC		
SNP_53318_A_27509735	NC_021166.1	Ca_Kabuli_Chr07	27509735	TT	CC	CC	INTERGENIC		
SNP_53320_A_27521186	NC_021166.1	Ca_Kabuli_Chr07	27521186	TT	AA	AA	INTRON	id171761	Unknown function
SNP_53323_A_27528240	NC_021166.1	Ca_Kabuli_Chr07	27528240	TT	CC	CC	INTERGENIC		
SNP_53324_A_27594662	NC_021166.1	Ca_Kabuli_Chr07	27594662	GG	TT	TT	NON_SYNONYMOUS_CODING	101514964	Unknown function
SNP_53325_A_27602571	NC_021166.1	Ca_Kabuli_Chr07	27602571	CC	TT	TT	INTERGENIC		
SNP_53326_A_27611374	NC_021166.1	Ca_Kabuli_Chr07	27611374	CC	AA	AA	INTERGENIC		
SNP_53327_A_27639721	NC_021166.1	Ca_Kabuli_Chr07	27639721	GG	AA	AA	INTERGENIC		
SNP_53328_A_27639727	NC_021166.1	Ca_Kabuli_Chr07	27639727	GG	AA	AA	INTERGENIC		
SNP_53329_A_27662402	NC_021166.1	Ca_Kabuli_Chr07	27662402	CC	TT	TT	INTERGENIC		
SNP_53330_A_27681752	NC_021166.1	Ca_Kabuli_Chr07	27681752	TT	AA	AA	INTERGENIC		
SNP_53331_A_27713269	NC_021166.1	Ca_Kabuli_Chr07	27713269	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53332_A_27775580	NC_021166.1	Ca_Kabuli_Chr07	27775580	CC	TT	TT	INTERGENIC		
SNP_53333_A_27775589	NC_021166.1	Ca_Kabuli_Chr07	27775589	AA	GG	GG	INTERGENIC		
SNP_53334_A_27822800	NC_021166.1	Ca_Kabuli_Chr07	27822800	GG	CC	CC	INTRON	101489686	Unknown function
SNP_53335_A_27829222	NC_021166.1	Ca_Kabuli_Chr07	27829222	CC	TT	TT	INTERGENIC		
SNP_53336_A_27874205	NC_021166.1	Ca_Kabuli_Chr07	27874205	TT	AA	AA	URR	101504427	uncharacterized LOC101504427
SNP_53337_A_27913121	NC_021166.1	Ca_Kabuli_Chr07	27913121	CC	TT	TT	INTERGENIC		
SNP_53338_A_27935887	NC_021166.1	Ca_Kabuli_Chr07	27935887	GG	AA	AA	INTERGENIC		
SNP_53340_A_27937664	NC_021166.1	Ca_Kabuli_Chr07	27937664	GG	AA	AA	INTERGENIC		
SNP_53341_A_27939643	NC_021166.1	Ca_Kabuli_Chr07	27939643	TT	CC	CC	INTERGENIC		
SNP_53342_A_27939690	NC_021166.1	Ca_Kabuli_Chr07	27939690	TT	CC	CC	INTERGENIC		
SNP_53343_A_27939724	NC_021166.1	Ca_Kabuli_Chr07	27939724	AA	GG	GG	INTERGENIC		
SNP_53344_A_27939761	NC_021166.1	Ca_Kabuli_Chr07	27939761	AA	GG	GG	INTERGENIC		
SNP_53345_A_27939771	NC_021166.1	Ca_Kabuli_Chr07	27939771	CC	TT	TT	INTERGENIC		
SNP_53346_A_27940056	NC_021166.1	Ca_Kabuli_Chr07	27940056	AA	GG	GG	INTERGENIC		
SNP_53347_A_27943272	NC_021166.1	Ca_Kabuli_Chr07	27943272	TT	GG	GG	INTERGENIC		
SNP_53348_A_27978172	NC_021166.1	Ca_Kabuli_Chr07	27978172	TT	AA	AA	INTERGENIC		
SNP_53349_A_27978653	NC_021166.1	Ca_Kabuli_Chr07	27978653	TT	GG	GG	INTERGENIC		
SNP_53350_A_27979541	NC_021166.1	Ca_Kabuli_Chr07	27979541	TT	GG	GG	INTERGENIC		
SNP_53351_A_28011041	NC_021166.1	Ca_Kabuli_Chr07	28011041	GG	AA	AA	INTERGENIC		
SNP_53352_A_28048234	NC_021166.1	Ca_Kabuli_Chr07	28048234	TT	CC	CC	DRR	101490346	E3 ubiquitin-protein ligase RNF12-A-like
SNP_53353_A_28048241	NC_021166.1	Ca_Kabuli_Chr07	28048241	GG	AA	AA	DRR	101490346	E3 ubiquitin-protein ligase RNF12-A-like
SNP_53354_A_28048274	NC_021166.1	Ca_Kabuli_Chr07	28048274	CC	TT	TT	DRR	101490346	E3 ubiquitin-protein ligase RNF12-A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53355_A_28048304	NC_021166.1	Ca_Kabuli_Chr07	28048304	GG	CC	CC	DRR	101490346	E3 ubiquitin-protein ligase RNF12-A-like
SNP_53357_A_28074925	NC_021166.1	Ca_Kabuli_Chr07	28074925	TT	CC	CC	URR	101490662	Unknown function
SNP_53358_A_28075278	NC_021166.1	Ca_Kabuli_Chr07	28075278	AA	GG	GG	URR	101490662	Unknown function
SNP_53359_A_28075293	NC_021166.1	Ca_Kabuli_Chr07	28075293	CC	TT	TT	URR	101490662	Unknown function
SNP_53360_A_28075305	NC_021166.1	Ca_Kabuli_Chr07	28075305	GG	AA	AA	URR	101490662	Unknown function
SNP_53361_A_28075328	NC_021166.1	Ca_Kabuli_Chr07	28075328	AA	GG	GG	URR	101490662	Unknown function
SNP_53362_A_28075355	NC_021166.1	Ca_Kabuli_Chr07	28075355	GG	AA	AA	URR	101490662	Unknown function
SNP_53363_A_28075368	NC_021166.1	Ca_Kabuli_Chr07	28075368	TT	CC	CC	URR	101490662	Unknown function
SNP_53364_A_28075370	NC_021166.1	Ca_Kabuli_Chr07	28075370	AA	GG	GG	URR	101490662	Unknown function
SNP_53365_A_28075382	NC_021166.1	Ca_Kabuli_Chr07	28075382	AA	GG	GG	URR	101490662	Unknown function
SNP_53366_A_28076335	NC_021166.1	Ca_Kabuli_Chr07	28076335	TT	CC	CC	URR	101490662	Unknown function
SNP_53367_A_28084916	NC_021166.1	Ca_Kabuli_Chr07	28084916	GG	AA	AA	INTERGENIC		
SNP_53368_A_28093725	NC_021166.1	Ca_Kabuli_Chr07	28093725	CC	TT	TT	INTERGENIC		
SNP_53369_A_28093755	NC_021166.1	Ca_Kabuli_Chr07	28093755	CC	TT	TT	INTERGENIC		
SNP_53370_A_28094014	NC_021166.1	Ca_Kabuli_Chr07	28094014	CC	AA	AA	INTERGENIC		
SNP_53371_A_28094158	NC_021166.1	Ca_Kabuli_Chr07	28094158	GG	TT	TT	INTERGENIC		
SNP_53372_A_28094204	NC_021166.1	Ca_Kabuli_Chr07	28094204	TT	CC	CC	INTERGENIC		
SNP_53373_A_28094213	NC_021166.1	Ca_Kabuli_Chr07	28094213	GG	AA	AA	INTERGENIC		
SNP_53374_A_28094224	NC_021166.1	Ca_Kabuli_Chr07	28094224	AA	CC	CC	INTERGENIC		
SNP_53375_A_28113248	NC_021166.1	Ca_Kabuli_Chr07	28113248	CC	AA	AA	INTERGENIC		
SNP_53376_A_28113256	NC_021166.1	Ca_Kabuli_Chr07	28113256	TT	CC	CC	INTERGENIC		
SNP_53377_A_28113262	NC_021166.1	Ca_Kabuli_Chr07	28113262	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53378_A_28113301	NC_021166.1	Ca_Kabuli_Chr07	28113301	GG	AA	AA	INTERGENIC		
SNP_53379_A_28119615	NC_021166.1	Ca_Kabuli_Chr07	28119615	TT	CC	CC	INTERGENIC		
SNP_53380_A_28146839	NC_021166.1	Ca_Kabuli_Chr07	28146839	AA	CC	CC	INTERGENIC		
SNP_53381_A_28163918	NC_021166.1	Ca_Kabuli_Chr07	28163918	TT	CC	CC	INTERGENIC		
SNP_53382_A_28163922	NC_021166.1	Ca_Kabuli_Chr07	28163922	AA	TT	TT	INTERGENIC		
SNP_53383_A_28163938	NC_021166.1	Ca_Kabuli_Chr07	28163938	TT	CC	CC	INTERGENIC		
SNP_53384_A_28163945	NC_021166.1	Ca_Kabuli_Chr07	28163945	TT	AA	AA	INTERGENIC		
SNP_53385_A_28164055	NC_021166.1	Ca_Kabuli_Chr07	28164055	GG	AA	AA	INTERGENIC		
SNP_53386_A_28164092	NC_021166.1	Ca_Kabuli_Chr07	28164092	AA	TT	TT	INTERGENIC		
SNP_53387_A_28186176	NC_021166.1	Ca_Kabuli_Chr07	28186176	GG	CC	CC	INTERGENIC		
SNP_53389_A_28189913	NC_021166.1	Ca_Kabuli_Chr07	28189913	TT	GG	GG	INTERGENIC		
SNP_53390_A_28190095	NC_021166.1	Ca_Kabuli_Chr07	28190095	AA	TT	TT	INTERGENIC		
SNP_53391_A_28190186	NC_021166.1	Ca_Kabuli_Chr07	28190186	AA	CC	CC	INTERGENIC		
SNP_53393_A_28190228	NC_021166.1	Ca_Kabuli_Chr07	28190228	TT	CC	CC	INTERGENIC		
SNP_53394_A_28219636	NC_021166.1	Ca_Kabuli_Chr07	28219636	GG	AA	AA	INTRON	101491929	cyclic nucleotide-gated ion channel 4-like
SNP_53395_A_28219639	NC_021166.1	Ca_Kabuli_Chr07	28219639	GG	AA	AA	INTRON	101491929	cyclic nucleotide-gated ion channel 4-like
SNP_53396_A_28240484	NC_021166.1	Ca_Kabuli_Chr07	28240484	AA	CC	CC	INTERGENIC		
SNP_53397_A_28240490	NC_021166.1	Ca_Kabuli_Chr07	28240490	AA	GG	GG	INTERGENIC		
SNP_53398_A_28240501	NC_021166.1	Ca_Kabuli_Chr07	28240501	GG	TT	TT	INTERGENIC		
SNP_53399_A_28240517	NC_021166.1	Ca_Kabuli_Chr07	28240517	AA	GG	GG	INTERGENIC		
SNP_53400_A_28240540	NC_021166.1	Ca_Kabuli_Chr07	28240540	TT	AA	AA	INTERGENIC		
SNP_53401_A_28240545	NC_021166.1	Ca_Kabuli_Chr07	28240545	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53402_A_28240603	NC_021166.1	Ca_Kabuli_Chr07	28240603	GG	TT	TT	INTERGENIC		
SNP_53403_A_28240611	NC_021166.1	Ca_Kabuli_Chr07	28240611	TT	CC	CC	INTERGENIC		
SNP_53404_A_28240810	NC_021166.1	Ca_Kabuli_Chr07	28240810	TT	GG	GG	INTERGENIC		
SNP_53405_A_28240834	NC_021166.1	Ca_Kabuli_Chr07	28240834	TT	CC	CC	INTERGENIC		
SNP_53406_A_28317214	NC_021166.1	Ca_Kabuli_Chr07	28317214	CC	TT	TT	INTERGENIC		
SNP_53408_A_28352872	NC_021166.1	Ca_Kabuli_Chr07	28352872	TT	CC	CC	INTERGENIC		
SNP_53411_A_28401444	NC_021166.1	Ca_Kabuli_Chr07	28401444	CC	TT	TT	INTERGENIC		
SNP_53413_A_28486280	NC_021166.1	Ca_Kabuli_Chr07	28486280	TT	CC	CC	INTRON	101499438	CCR4-NOT transcription complex subunit 1
SNP_53414_A_28529866	NC_021166.1	Ca_Kabuli_Chr07	28529866	AA	CC	CC	INTERGENIC		
SNP_53415_A_28556933	NC_021166.1	Ca_Kabuli_Chr07	28556933	AA	TT	TT	DRR	101506477	uncharacterized LOC101506477
SNP_53417_A_28557139	NC_021166.1	Ca_Kabuli_Chr07	28557139	CC	TT	TT	DRR	101506477	uncharacterized LOC101506477
SNP_53418_A_28557203	NC_021166.1	Ca_Kabuli_Chr07	28557203	GG	AA	AA	INTRON	101506477	uncharacterized LOC101506477
SNP_53419_A_28561207	NC_021166.1	Ca_Kabuli_Chr07	28561207	TT	CC	CC	DRR	101506803	uncharacterized LOC101506803
SNP_53420_A_28561217	NC_021166.1	Ca_Kabuli_Chr07	28561217	GG	TT	TT	DRR	101506803	uncharacterized LOC101506803
SNP_53421_A_28561226	NC_021166.1	Ca_Kabuli_Chr07	28561226	TT	AA	AA	DRR	101506803	uncharacterized LOC101506803
SNP_53422_A_28561271	NC_021166.1	Ca_Kabuli_Chr07	28561271	TT	CC	CC	DRR	101506803	uncharacterized LOC101506803
SNP_53423_A_28561376	NC_021166.1	Ca_Kabuli_Chr07	28561376	GG	CC	CC	DRR	101506803	uncharacterized LOC101506803
SNP_53424_A_28561399	NC_021166.1	Ca_Kabuli_Chr07	28561399	GG	AA	AA	DRR	101506803	uncharacterized LOC101506803
SNP_53425_A_28561428	NC_021166.1	Ca_Kabuli_Chr07	28561428	TT	CC	CC	DRR	101506803	uncharacterized LOC101506803
SNP_53426_A_28561445	NC_021166.1	Ca_Kabuli_Chr07	28561445	AA	GG	GG	DRR	101506803	uncharacterized LOC101506803
SNP_53428_A_28561549	NC_021166.1	Ca_Kabuli_Chr07	28561549	TT	CC	CC	DRR	101506803	uncharacterized LOC101506803
SNP_53429_A_28561600	NC_021166.1	Ca_Kabuli_Chr07	28561600	AA	TT	TT	DRR	101506803	uncharacterized LOC101506803

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53430_A_28611873	NC_021166.1	Ca_Kabuli_Chr07	28611873	AA	GG	GG	INTERGENIC		
SNP_53431_A_28619530	NC_021166.1	Ca_Kabuli_Chr07	28619530	TT	GG	GG	DRR	101503256	dnaJ protein homolog 2-like
SNP_53432_A_28619534	NC_021166.1	Ca_Kabuli_Chr07	28619534	TT	CC	CC	DRR	101503256	dnaJ protein homolog 2-like
SNP_53433_A_28652673	NC_021166.1	Ca_Kabuli_Chr07	28652673	CC	TT	TT	INTERGENIC		
SNP_53434_A_28702153	NC_021166.1	Ca_Kabuli_Chr07	28702153	GG	AA	AA	DRR	101509032	actin-related protein 4-like
SNP_53435_A_28702322	NC_021166.1	Ca_Kabuli_Chr07	28702322	TT	CC	CC	DRR	101509032	actin-related protein 4-like
SNP_53436_A_28702492	NC_021166.1	Ca_Kabuli_Chr07	28702492	CC	TT	TT	DRR	101509032	actin-related protein 4-like
SNP_53437_A_28702561	NC_021166.1	Ca_Kabuli_Chr07	28702561	AA	CC	CC	DRR	101509032	actin-related protein 4-like
SNP_53438_A_28702615	NC_021166.1	Ca_Kabuli_Chr07	28702615	TT	CC	CC	DRR	101509032	actin-related protein 4-like
SNP_53440_A_28705945	NC_021166.1	Ca_Kabuli_Chr07	28705945	TT	CC	CC	INTRON	101509032	actin-related protein 4-like
SNP_53441_A_28707198	NC_021166.1	Ca_Kabuli_Chr07	28707198	CC	AA	AA	INTRON	101509032	actin-related protein 4-like
SNP_53443_A_28707268	NC_021166.1	Ca_Kabuli_Chr07	28707268	GG	AA	AA	INTRON	101509032	actin-related protein 4-like
SNP_53444_A_28707394	NC_021166.1	Ca_Kabuli_Chr07	28707394	TT	CC	CC	INTRON	101509032	actin-related protein 4-like
SNP_53446_A_28707467	NC_021166.1	Ca_Kabuli_Chr07	28707467	AA	GG	GG	INTRON	101509032	actin-related protein 4-like
SNP_53447_A_28707595	NC_021166.1	Ca_Kabuli_Chr07	28707595	CC	TT	TT	INTRON	101509032	actin-related protein 4-like
SNP_53449_A_28875900	NC_021166.1	Ca_Kabuli_Chr07	28875900	TT	CC	CC	INTERGENIC		
SNP_53450_A_28876231	NC_021166.1	Ca_Kabuli_Chr07	28876231	CC	AA	AA	INTERGENIC		
SNP_53451_A_28904772	NC_021166.1	Ca_Kabuli_Chr07	28904772	TT	AA	AA	INTERGENIC		
SNP_53452_A_28907272	NC_021166.1	Ca_Kabuli_Chr07	28907272	CC	GG	GG	INTERGENIC		
SNP_53453_A_28912618	NC_021166.1	Ca_Kabuli_Chr07	28912618	TT	AA	AA	INTERGENIC		
SNP_53454_A_28912899	NC_021166.1	Ca_Kabuli_Chr07	28912899	AA	GG	GG	INTERGENIC		
SNP_53455_A_28913527	NC_021166.1	Ca_Kabuli_Chr07	28913527	TT	CC	CC	URR	101510104	1-aminocyclopropane-1-carboxylate oxidase homolog 12-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53456_A_28913905	NC_021166.1	Ca_Kabuli_Chr07	28913905	TT	GG	GG	URR		101510104	1-aminocyclopropane-1-carboxylate oxidase homolog 12-like
SNP_53458_A_28916647	NC_021166.1	Ca_Kabuli_Chr07	28916647	TT	CC	CC	DRR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53459_A_28918641	NC_021166.1	Ca_Kabuli_Chr07	28918641	CC	TT	TT	URR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53460_A_28918775	NC_021166.1	Ca_Kabuli_Chr07	28918775	AA	CC	CC	URR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53461_A_28918902	NC_021166.1	Ca_Kabuli_Chr07	28918902	GG	CC	CC	URR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53463_A_28918973	NC_021166.1	Ca_Kabuli_Chr07	28918973	TT	CC	CC	URR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53464_A_28918993	NC_021166.1	Ca_Kabuli_Chr07	28918993	GG	AA	AA	URR		101510429	E3 ubiquitin-protein ligase ATL4-like
SNP_53465_A_28923058	NC_021166.1	Ca_Kabuli_Chr07	28923058	AA	TT	TT	INTRON		101510755	uncharacterized LOC101510755
SNP_53466_A_28923852	NC_021166.1	Ca_Kabuli_Chr07	28923852	CC	GG	GG	INTRON		101510755	uncharacterized LOC101510755
SNP_53467_A_28924098	NC_021166.1	Ca_Kabuli_Chr07	28924098	CC	TT	TT	INTRON		101510755	uncharacterized LOC101510755
SNP_53468_A_28924317	NC_021166.1	Ca_Kabuli_Chr07	28924317	CC	AA	AA	INTRON		101510755	uncharacterized LOC101510755
SNP_53469_A_28924330	NC_021166.1	Ca_Kabuli_Chr07	28924330	TT	AA	AA	INTRON		101510755	uncharacterized LOC101510755
SNP_53470_A_28924343	NC_021166.1	Ca_Kabuli_Chr07	28924343	GG	AA	AA	INTRON		101510755	uncharacterized LOC101510755
SNP_53472_A_28926142	NC_021166.1	Ca_Kabuli_Chr07	28926142	AA	CC	CC	DRR		101511079	20 kDa chaperonin, chloroplastic-like
SNP_53473_A_28929081	NC_021166.1	Ca_Kabuli_Chr07	28929081	AA	CC	CC	URR		101511079	20 kDa chaperonin, chloroplastic-like
SNP_53474_A_28932814	NC_021166.1	Ca_Kabuli_Chr07	28932814	AA	GG	GG	INTERGENIC			
SNP_53476_A_28935937	NC_021166.1	Ca_Kabuli_Chr07	28935937	TT	GG	GG	INTERGENIC			
SNP_53478_A_28937138	NC_021166.1	Ca_Kabuli_Chr07	28937138	AA	GG	GG	INTERGENIC			
SNP_53480_A_28937399	NC_021166.1	Ca_Kabuli_Chr07	28937399	GG	AA	AA	INTERGENIC			
SNP_53483_A_28942575	NC_021166.1	Ca_Kabuli_Chr07	28942575	CC	GG	GG	URR		101511717	putative invertase inhibitor
SNP_53484_A_28942800	NC_021166.1	Ca_Kabuli_Chr07	28942800	CC	TT	TT	URR		101511717	putative invertase inhibitor
SNP_53485_A_28943087	NC_021166.1	Ca_Kabuli_Chr07	28943087	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53486_A_28946048	NC_021166.1	Ca_Kabuli_Chr07	28946048	TT	AA	AA	INTERGENIC			
SNP_53487_A_28947362	NC_021166.1	Ca_Kabuli_Chr07	28947362	AA	GG	GG	INTERGENIC			
SNP_53488_A_28947631	NC_021166.1	Ca_Kabuli_Chr07	28947631	CC	TT	TT	INTERGENIC			
SNP_53489_A_28948504	NC_021166.1	Ca_Kabuli_Chr07	28948504	CC	AA	AA	INTERGENIC			
SNP_53490_A_28948570	NC_021166.1	Ca_Kabuli_Chr07	28948570	AA	CC	CC	INTERGENIC			
SNP_53492_A_28949523	NC_021166.1	Ca_Kabuli_Chr07	28949523	TT	AA	AA	INTERGENIC			
SNP_53493_A_28949525	NC_021166.1	Ca_Kabuli_Chr07	28949525	AA	GG	GG	INTERGENIC			
SNP_53494_A_28950286	NC_021166.1	Ca_Kabuli_Chr07	28950286	AA	CC	CC	INTERGENIC			
SNP_53495_A_28950337	NC_021166.1	Ca_Kabuli_Chr07	28950337	CC	TT	TT	INTERGENIC			
SNP_53496_A_28951025	NC_021166.1	Ca_Kabuli_Chr07	28951025	TT	CC	CC	INTERGENIC			
SNP_53497_A_28951027	NC_021166.1	Ca_Kabuli_Chr07	28951027	GG	AA	AA	INTERGENIC			
SNP_53498_A_28953397	NC_021166.1	Ca_Kabuli_Chr07	28953397	TT	CC	CC	INTERGENIC			
SNP_53499_A_28956573	NC_021166.1	Ca_Kabuli_Chr07	28956573	CC	GG	GG	INTERGENIC			
SNP_53500_A_28956628	NC_021166.1	Ca_Kabuli_Chr07	28956628	AA	GG	GG	INTERGENIC			
SNP_53501_A_28958757	NC_021166.1	Ca_Kabuli_Chr07	28958757	TT	CC	CC	INTERGENIC			
SNP_53502_A_28962014	NC_021166.1	Ca_Kabuli_Chr07	28962014	AA	GG	GG	URR	101512034	uncharacterized LOC101512034	
SNP_53503_A_28964503	NC_021166.1	Ca_Kabuli_Chr07	28964503	CC	GG	GG	INTERGENIC			
SNP_53504_A_28964893	NC_021166.1	Ca_Kabuli_Chr07	28964893	AA	CC	CC	INTERGENIC			
SNP_53505_A_28965121	NC_021166.1	Ca_Kabuli_Chr07	28965121	AA	TT	TT	INTERGENIC			
SNP_53506_A_28965250	NC_021166.1	Ca_Kabuli_Chr07	28965250	CC	TT	TT	INTERGENIC			
SNP_53507_A_28965277	NC_021166.1	Ca_Kabuli_Chr07	28965277	GG	AA	AA	INTERGENIC			
SNP_53508_A_28965366	NC_021166.1	Ca_Kabuli_Chr07	28965366	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53509_A_28966614	NC_021166.1	Ca_Kabuli_Chr07	28966614	TT	GG	GG	INTERGENIC		
SNP_53510_A_28966630	NC_021166.1	Ca_Kabuli_Chr07	28966630	GG	AA	AA	INTERGENIC		
SNP_53511_A_28966850	NC_021166.1	Ca_Kabuli_Chr07	28966850	AA	GG	GG	INTERGENIC		
SNP_53512_A_28966894	NC_021166.1	Ca_Kabuli_Chr07	28966894	GG	AA	AA	INTERGENIC		
SNP_53513_A_28966897	NC_021166.1	Ca_Kabuli_Chr07	28966897	GG	TT	TT	INTERGENIC		
SNP_53514_A_28968944	NC_021166.1	Ca_Kabuli_Chr07	28968944	CC	TT	TT	INTERGENIC		
SNP_53515_A_28969021	NC_021166.1	Ca_Kabuli_Chr07	28969021	GG	AA	AA	INTERGENIC		
SNP_53517_A_28979330	NC_021166.1	Ca_Kabuli_Chr07	28979330	TT	CC	CC	INTRON	101512359	NAD-dependent malic enzyme 62 kDa isoform, mitochondrial
SNP_53518_A_28988010	NC_021166.1	Ca_Kabuli_Chr07	28988010	GG	AA	AA	INTRON	101512359	NAD-dependent malic enzyme 62 kDa isoform, mitochondrial
SNP_53520_A_28999155	NC_021166.1	Ca_Kabuli_Chr07	28999155	TT	CC	CC	INTERGENIC		
SNP_53521_A_28999171	NC_021166.1	Ca_Kabuli_Chr07	28999171	GG	TT	TT	INTERGENIC		
SNP_53522_A_28999173	NC_021166.1	Ca_Kabuli_Chr07	28999173	TT	AA	AA	INTERGENIC		
SNP_53523_A_28999484	NC_021166.1	Ca_Kabuli_Chr07	28999484	TT	AA	AA	INTERGENIC		
SNP_53524_A_28999514	NC_021166.1	Ca_Kabuli_Chr07	28999514	AA	TT	TT	INTERGENIC		
SNP_53525_A_29000615	NC_021166.1	Ca_Kabuli_Chr07	29000615	TT	CC	CC	INTERGENIC		
SNP_53526_A_29000617	NC_021166.1	Ca_Kabuli_Chr07	29000617	GG	AA	AA	INTERGENIC		
SNP_53527_A_29000809	NC_021166.1	Ca_Kabuli_Chr07	29000809	TT	AA	AA	INTERGENIC		
SNP_53528_A_29000834	NC_021166.1	Ca_Kabuli_Chr07	29000834	AA	GG	GG	INTERGENIC		
SNP_53530_A_29001524	NC_021166.1	Ca_Kabuli_Chr07	29001524	AA	CC	CC	INTERGENIC		
SNP_53531_A_29001527	NC_021166.1	Ca_Kabuli_Chr07	29001527	CC	AA	AA	INTERGENIC		
SNP_53533_A_29003187	NC_021166.1	Ca_Kabuli_Chr07	29003187	CC	TT	TT	DRR	101512684	dynamamin-related protein 1E-like
SNP_53534_A_29003298	NC_021166.1	Ca_Kabuli_Chr07	29003298	CC	GG	GG	DRR	101512684	dynamamin-related protein 1E-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53535_A_29004068	NC_021166.1	Ca_Kabuli_Chr07	29004068	AA	GG	GG	INTRON	101512684	dynammin-related protein 1E-like
SNP_53536_A_29004072	NC_021166.1	Ca_Kabuli_Chr07	29004072	TT	CC	CC	INTRON	101512684	dynammin-related protein 1E-like
SNP_53539_A_29008518	NC_021166.1	Ca_Kabuli_Chr07	29008518	CC	TT	TT	INTERGENIC		
SNP_53540_A_29009596	NC_021166.1	Ca_Kabuli_Chr07	29009596	TT	AA	AA	DRR	101513002	UMP-CMP kinase 3-like
SNP_53541_A_29009772	NC_021166.1	Ca_Kabuli_Chr07	29009772	AA	GG	GG	DRR	101513002	UMP-CMP kinase 3-like
SNP_53542_A_29010138	NC_021166.1	Ca_Kabuli_Chr07	29010138	TT	GG	GG	DRR	101513002	UMP-CMP kinase 3-like
SNP_53544_A_29011145	NC_021166.1	Ca_Kabuli_Chr07	29011145	CC	TT	TT	URR	101512684	dynammin-related protein 1E-like
SNP_53545_A_29011228	NC_021166.1	Ca_Kabuli_Chr07	29011228	TT	CC	CC	URR	101512684	dynammin-related protein 1E-like
SNP_53547_A_29012104	NC_021166.1	Ca_Kabuli_Chr07	29012104	CC	TT	TT	INTERGENIC		
SNP_53548_A_29012481	NC_021166.1	Ca_Kabuli_Chr07	29012481	CC	GG	GG	INTERGENIC		
SNP_53550_A_29014927	NC_021166.1	Ca_Kabuli_Chr07	29014927	AA	GG	GG	INTRON	101513002	UMP-CMP kinase 3-like
SNP_53551_A_29015144	NC_021166.1	Ca_Kabuli_Chr07	29015144	TT	CC	CC	INTRON	101513002	UMP-CMP kinase 3-like
SNP_53552_A_29015165	NC_021166.1	Ca_Kabuli_Chr07	29015165	GG	AA	AA	INTRON	101513002	UMP-CMP kinase 3-like
SNP_53553_A_29020197	NC_021166.1	Ca_Kabuli_Chr07	29020197	GG	AA	AA	URR	101513002	UMP-CMP kinase 3-like
SNP_53554_A_29020212	NC_021166.1	Ca_Kabuli_Chr07	29020212	CC	GG	GG	URR	101513002	UMP-CMP kinase 3-like
SNP_53555_A_29020413	NC_021166.1	Ca_Kabuli_Chr07	29020413	AA	GG	GG	URR	101513002	UMP-CMP kinase 3-like
SNP_53556_A_29020418	NC_021166.1	Ca_Kabuli_Chr07	29020418	CC	TT	TT	URR	101513002	UMP-CMP kinase 3-like
SNP_53557_A_29020462	NC_021166.1	Ca_Kabuli_Chr07	29020462	GG	TT	TT	URR	101513002	UMP-CMP kinase 3-like
SNP_53559_A_29020511	NC_021166.1	Ca_Kabuli_Chr07	29020511	CC	AA	AA	URR	101513002	UMP-CMP kinase 3-like
SNP_53560_A_29020708	NC_021166.1	Ca_Kabuli_Chr07	29020708	CC	AA	AA	URR	101513002	UMP-CMP kinase 3-like
SNP_53561_A_29020919	NC_021166.1	Ca_Kabuli_Chr07	29020919	GG	AA	AA	URR	101513002	UMP-CMP kinase 3-like
SNP_53564_A_29021315	NC_021166.1	Ca_Kabuli_Chr07	29021315	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53566_A_29022040	NC_021166.1	Ca_Kabuli_Chr07	29022040	TT	GG	GG	INTERGENIC		
SNP_53566_A_29022062	NC_021166.1	Ca_Kabuli_Chr07	29022062	GG	AA	AA	INTERGENIC		
SNP_53567_A_29022067	NC_021166.1	Ca_Kabuli_Chr07	29022067	CC	TT	TT	INTERGENIC		
SNP_53568_A_29022279	NC_021166.1	Ca_Kabuli_Chr07	29022279	AA	TT	TT	INTERGENIC		
SNP_53570_A_29022476	NC_021166.1	Ca_Kabuli_Chr07	29022476	AA	GG	GG	INTERGENIC		
SNP_53571_A_29022494	NC_021166.1	Ca_Kabuli_Chr07	29022494	AA	TT	TT	INTERGENIC		
SNP_53572_A_29022574	NC_021166.1	Ca_Kabuli_Chr07	29022574	TT	AA	AA	INTERGENIC		
SNP_53573_A_29022589	NC_021166.1	Ca_Kabuli_Chr07	29022589	AA	CC	CC	INTERGENIC		
SNP_53575_A_29022925	NC_021166.1	Ca_Kabuli_Chr07	29022925	CC	AA	AA	DRR	101513544	uncharacterized LOC101513544
SNP_53577_A_29024222	NC_021166.1	Ca_Kabuli_Chr07	29024222	AA	CC	CC	INTRON	101513544	uncharacterized LOC101513544
SNP_53578_A_29024489	NC_021166.1	Ca_Kabuli_Chr07	29024489	CC	TT	TT	INTRON	101513544	uncharacterized LOC101513544
SNP_53579_A_29025997	NC_021166.1	Ca_Kabuli_Chr07	29025997	CC	GG	GG	INTRON	101513544	uncharacterized LOC101513544
SNP_53580_A_29035540	NC_021166.1	Ca_Kabuli_Chr07	29035540	TT	CC	CC	INTERGENIC		
SNP_53581_A_29035548	NC_021166.1	Ca_Kabuli_Chr07	29035548	AA	CC	CC	INTERGENIC		
SNP_53582_A_29041645	NC_021166.1	Ca_Kabuli_Chr07	29041645	AA	GG	GG	URR	101514081	protein ECERIFERUM 1
SNP_53583_A_29041656	NC_021166.1	Ca_Kabuli_Chr07	29041656	GG	TT	TT	URR	101514081	protein ECERIFERUM 1
SNP_53584_A_29042268	NC_021166.1	Ca_Kabuli_Chr07	29042268	GG	TT	TT	URR	101514081	protein ECERIFERUM 1
SNP_53585_A_29042269	NC_021166.1	Ca_Kabuli_Chr07	29042269	TT	CC	CC	URR	101514081	protein ECERIFERUM 1
SNP_53586_A_29044227	NC_021166.1	Ca_Kabuli_Chr07	29044227	CC	TT	TT	INTERGENIC		
SNP_53587_A_29044669	NC_021166.1	Ca_Kabuli_Chr07	29044669	TT	GG	GG	INTERGENIC		
SNP_53588_A_29063222	NC_021166.1	Ca_Kabuli_Chr07	29063222	AA	GG	GG	INTERGENIC		
SNP_53589_A_29064041	NC_021166.1	Ca_Kabuli_Chr07	29064041	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53590_A_29064042	NC_021166.1	Ca_Kabuli_Chr07	29064042	CC	AA	AA	INTERGENIC		
SNP_53591_A_29064104	NC_021166.1	Ca_Kabuli_Chr07	29064104	TT	GG	GG	INTERGENIC		
SNP_53592_A_29066064	NC_021166.1	Ca_Kabuli_Chr07	29066064	GG	AA	AA	INTERGENIC		
SNP_53593_A_29066082	NC_021166.1	Ca_Kabuli_Chr07	29066082	AA	CC	CC	INTERGENIC		
SNP_53594_A_29066148	NC_021166.1	Ca_Kabuli_Chr07	29066148	TT	CC	CC	INTERGENIC		
SNP_53595_A_29066174	NC_021166.1	Ca_Kabuli_Chr07	29066174	AA	GG	GG	INTERGENIC		
SNP_53596_A_29066180	NC_021166.1	Ca_Kabuli_Chr07	29066180	GG	AA	AA	INTERGENIC		
SNP_53598_A_29067601	NC_021166.1	Ca_Kabuli_Chr07	29067601	CC	TT	TT	INTERGENIC		
SNP_53599_A_29067629	NC_021166.1	Ca_Kabuli_Chr07	29067629	TT	CC	CC	INTERGENIC		
SNP_53600_A_29067755	NC_021166.1	Ca_Kabuli_Chr07	29067755	AA	GG	GG	INTERGENIC		
SNP_53601_A_29067772	NC_021166.1	Ca_Kabuli_Chr07	29067772	GG	AA	AA	INTERGENIC		
SNP_53602_A_29067814	NC_021166.1	Ca_Kabuli_Chr07	29067814	AA	TT	TT	INTERGENIC		
SNP_53603_A_29067820	NC_021166.1	Ca_Kabuli_Chr07	29067820	AA	GG	GG	INTERGENIC		
SNP_53604_A_29067822	NC_021166.1	Ca_Kabuli_Chr07	29067822	TT	CC	CC	INTERGENIC		
SNP_53605_A_29067847	NC_021166.1	Ca_Kabuli_Chr07	29067847	GG	AA	AA	INTERGENIC		
SNP_53606_A_29067918	NC_021166.1	Ca_Kabuli_Chr07	29067918	GG	AA	AA	INTERGENIC		
SNP_53607_A_29068012	NC_021166.1	Ca_Kabuli_Chr07	29068012	AA	GG	GG	INTERGENIC		
SNP_53608_A_29068023	NC_021166.1	Ca_Kabuli_Chr07	29068023	TT	CC	CC	INTERGENIC		
SNP_53609_A_29069418	NC_021166.1	Ca_Kabuli_Chr07	29069418	CC	TT	TT	DRR	101514846	protein ECERIFERUM 1-like
SNP_53610_A_29069425	NC_021166.1	Ca_Kabuli_Chr07	29069425	TT	CC	CC	DRR	101514846	protein ECERIFERUM 1-like
SNP_53613_A_29070416	NC_021166.1	Ca_Kabuli_Chr07	29070416	CC	TT	TT	SYNONYMOUS_CODING	101514846	protein ECERIFERUM 1-like
SNP_53614_A_29070492	NC_021166.1	Ca_Kabuli_Chr07	29070492	GG	CC	CC	INTRON	101514846	protein ECERIFERUM 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53616_A_29070565	NC_021166.1	Ca_Kabuli_Chr07	29070565	GG	TT	TT	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53617_A_29070787	NC_021166.1	Ca_Kabuli_Chr07	29070787	GG	AA	AA	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53618_A_29070788	NC_021166.1	Ca_Kabuli_Chr07	29070788	AA	CC	CC	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53619_A_29070797	NC_021166.1	Ca_Kabuli_Chr07	29070797	AA	GG	GG	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53620_A_29073545	NC_021166.1	Ca_Kabuli_Chr07	29073545	TT	CC	CC	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53621_A_29073984	NC_021166.1	Ca_Kabuli_Chr07	29073984	GG	AA	AA	SYNONYMOUS_CODING	101514846	protein ECERIFERUM 1-like
SNP_53622_A_29076393	NC_021166.1	Ca_Kabuli_Chr07	29076393	TT	CC	CC	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53623_A_29077032	NC_021166.1	Ca_Kabuli_Chr07	29077032	CC	TT	TT	INTRON	101514846	protein ECERIFERUM 1-like
SNP_53624_A_29079415	NC_021166.1	Ca_Kabuli_Chr07	29079415	GG	CC	CC	URR	101514846	protein ECERIFERUM 1-like
SNP_53625_A_29083157	NC_021166.1	Ca_Kabuli_Chr07	29083157	TT	GG	GG	INTERGENIC		
SNP_53626_A_29084807	NC_021166.1	Ca_Kabuli_Chr07	29084807	TT	CC	CC	INTERGENIC		
SNP_53627_A_29084933	NC_021166.1	Ca_Kabuli_Chr07	29084933	GG	AA	AA	INTERGENIC		
SNP_53628_A_29085579	NC_021166.1	Ca_Kabuli_Chr07	29085579	GG	AA	AA	INTERGENIC		
SNP_53629_A_29085636	NC_021166.1	Ca_Kabuli_Chr07	29085636	CC	AA	AA	INTERGENIC		
SNP_53631_A_29085889	NC_021166.1	Ca_Kabuli_Chr07	29085889	CC	AA	AA	INTERGENIC		
SNP_53632_A_29086107	NC_021166.1	Ca_Kabuli_Chr07	29086107	AA	GG	GG	INTERGENIC		
SNP_53633_A_29086133	NC_021166.1	Ca_Kabuli_Chr07	29086133	AA	GG	GG	INTERGENIC		
SNP_53634_A_29086150	NC_021166.1	Ca_Kabuli_Chr07	29086150	TT	CC	CC	INTERGENIC		
SNP_53635_A_29086948	NC_021166.1	Ca_Kabuli_Chr07	29086948	TT	CC	CC	INTERGENIC		
SNP_53636_A_29087083	NC_021166.1	Ca_Kabuli_Chr07	29087083	TT	CC	CC	INTERGENIC		
SNP_53638_A_29094129	NC_021166.1	Ca_Kabuli_Chr07	29094129	CC	TT	TT	INTERGENIC		
SNP_53639_A_29094168	NC_021166.1	Ca_Kabuli_Chr07	29094168	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53640_A_29094621	NC_021166.1	Ca_Kabuli_Chr07	29094621	AA	TT	TT	INTERGENIC		
SNP_53641_A_29094975	NC_021166.1	Ca_Kabuli_Chr07	29094975	AA	TT	TT	INTERGENIC		
SNP_53642_A_29095481	NC_021166.1	Ca_Kabuli_Chr07	29095481	CC	TT	TT	DRR	101515169	putative ABC transporter C family member 15
SNP_53643_A_29095760	NC_021166.1	Ca_Kabuli_Chr07	29095760	GG	AA	AA	DRR	101515169	putative ABC transporter C family member 15
SNP_53644_A_29095766	NC_021166.1	Ca_Kabuli_Chr07	29095766	AA	GG	GG	DRR	101515169	putative ABC transporter C family member 15
SNP_53646_A_29103875	NC_021166.1	Ca_Kabuli_Chr07	29103875	TT	CC	CC	INTERGENIC		
SNP_53647_A_29103890	NC_021166.1	Ca_Kabuli_Chr07	29103890	GG	AA	AA	INTERGENIC		
SNP_53648_A_29103962	NC_021166.1	Ca_Kabuli_Chr07	29103962	TT	CC	CC	INTERGENIC		
SNP_53649_A_29103965	NC_021166.1	Ca_Kabuli_Chr07	29103965	AA	GG	GG	INTERGENIC		
SNP_53650_A_29104009	NC_021166.1	Ca_Kabuli_Chr07	29104009	CC	AA	AA	INTERGENIC		
SNP_53651_A_29104208	NC_021166.1	Ca_Kabuli_Chr07	29104208	TT	CC	CC	INTERGENIC		
SNP_53653_A_29104299	NC_021166.1	Ca_Kabuli_Chr07	29104299	GG	TT	TT	INTERGENIC		
SNP_53654_A_29104429	NC_021166.1	Ca_Kabuli_Chr07	29104429	GG	TT	TT	INTERGENIC		
SNP_53655_A_29105068	NC_021166.1	Ca_Kabuli_Chr07	29105068	AA	GG	GG	INTERGENIC		
SNP_53656_A_29105793	NC_021166.1	Ca_Kabuli_Chr07	29105793	TT	CC	CC	INTERGENIC		
SNP_53657_A_29105815	NC_021166.1	Ca_Kabuli_Chr07	29105815	AA	GG	GG	INTERGENIC		
SNP_53658_A_29106196	NC_021166.1	Ca_Kabuli_Chr07	29106196	TT	GG	GG	INTERGENIC		
SNP_53659_A_29106197	NC_021166.1	Ca_Kabuli_Chr07	29106197	AA	CC	CC	INTERGENIC		
SNP_53660_A_29106602	NC_021166.1	Ca_Kabuli_Chr07	29106602	AA	TT	TT	INTERGENIC		
SNP_53661_A_29108206	NC_021166.1	Ca_Kabuli_Chr07	29108206	TT	CC	CC	DRR	101515718	uncharacterized LOC101515718
SNP_53662_A_29108252	NC_021166.1	Ca_Kabuli_Chr07	29108252	CC	TT	TT	URR	101515169	putative ABC transporter C family member 15
SNP_53663_A_29109628	NC_021166.1	Ca_Kabuli_Chr07	29109628	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53664_A_29110091	NC_021166.1	Ca_Kabuli_Chr07	29110091	AA	TT	TT	INTERGENIC		
SNP_53665_A_29110095	NC_021166.1	Ca_Kabuli_Chr07	29110095	AA	CC	CC	INTERGENIC		
SNP_53666_A_29110159	NC_021166.1	Ca_Kabuli_Chr07	29110159	TT	AA	AA	INTERGENIC		
SNP_53667_A_29110895	NC_021166.1	Ca_Kabuli_Chr07	29110895	GG	AA	AA	DRR	101488477	ribose-phosphate pyrophosphokinase 1
SNP_53668_A_29110906	NC_021166.1	Ca_Kabuli_Chr07	29110906	GG	CC	CC	DRR	101488477	ribose-phosphate pyrophosphokinase 1
SNP_53669_A_29111893	NC_021166.1	Ca_Kabuli_Chr07	29111893	CC	TT	TT	URR	101515718	uncharacterized LOC101515718
SNP_53671_A_29119069	NC_021166.1	Ca_Kabuli_Chr07	29119069	TT	AA	AA	INTERGENIC		
SNP_53672_A_29120175	NC_021166.1	Ca_Kabuli_Chr07	29120175	GG	AA	AA	URR	101488477	ribose-phosphate pyrophosphokinase 1
SNP_53673_A_29121593	NC_021166.1	Ca_Kabuli_Chr07	29121593	CC	AA	AA	URR	101488477	ribose-phosphate pyrophosphokinase 1
SNP_53675_A_29122696	NC_021166.1	Ca_Kabuli_Chr07	29122696	CC	TT	TT	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53676_A_29122715	NC_021166.1	Ca_Kabuli_Chr07	29122715	TT	CC	CC	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53677_A_29123091	NC_021166.1	Ca_Kabuli_Chr07	29123091	AA	TT	TT	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53678_A_29123249	NC_021166.1	Ca_Kabuli_Chr07	29123249	AA	GG	GG	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53679_A_29123259	NC_021166.1	Ca_Kabuli_Chr07	29123259	GG	AA	AA	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53680_A_29123271	NC_021166.1	Ca_Kabuli_Chr07	29123271	CC	AA	AA	INTRON	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53681_A_29125720	NC_021166.1	Ca_Kabuli_Chr07	29125720	AA	CC	CC	URR	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53682_A_29125724	NC_021166.1	Ca_Kabuli_Chr07	29125724	GG	AA	AA	URR	101488819	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 3
SNP_53684_A_29128331	NC_021166.1	Ca_Kabuli_Chr07	29128331	AA	GG	GG	DRR	101489476	annexin A7
SNP_53685_A_29128346	NC_021166.1	Ca_Kabuli_Chr07	29128346	TT	AA	AA	DRR	101489476	annexin A7
SNP_53686_A_29128348	NC_021166.1	Ca_Kabuli_Chr07	29128348	CC	AA	AA	DRR	101489476	annexin A7
SNP_53688_A_29131225	NC_021166.1	Ca_Kabuli_Chr07	29131225	GG	AA	AA	INTERGENIC		
SNP_53689_A_29133106	NC_021166.1	Ca_Kabuli_Chr07	29133106	GG	CC	CC	URR	101489476	annexin A7

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53691_A_29133192	NC_021166.1	Ca_Kabuli_Chr07	29133192	CC	TT	TT	URR	101489476	annexin A7
SNP_53692_A_29133350	NC_021166.1	Ca_Kabuli_Chr07	29133350	TT	CC	CC	URR	101489476	annexin A7
SNP_53693_A_29133355	NC_021166.1	Ca_Kabuli_Chr07	29133355	TT	CC	CC	URR	101489476	annexin A7
SNP_53694_A_29133382	NC_021166.1	Ca_Kabuli_Chr07	29133382	CC	TT	TT	URR	101489476	annexin A7
SNP_53695_A_29133385	NC_021166.1	Ca_Kabuli_Chr07	29133385	CC	TT	TT	URR	101489476	annexin A7
SNP_53696_A_29133391	NC_021166.1	Ca_Kabuli_Chr07	29133391	CC	TT	TT	URR	101489476	annexin A7
SNP_53697_A_29133420	NC_021166.1	Ca_Kabuli_Chr07	29133420	TT	CC	CC	URR	101489476	annexin A7
SNP_53698_A_29133426	NC_021166.1	Ca_Kabuli_Chr07	29133426	CC	TT	TT	URR	101489476	annexin A7
SNP_53699_A_29133708	NC_021166.1	Ca_Kabuli_Chr07	29133708	GG	AA	AA	URR	101489476	annexin A7
SNP_53700_A_29134302	NC_021166.1	Ca_Kabuli_Chr07	29134302	TT	CC	CC	INTERGENIC		
SNP_53701_A_29134314	NC_021166.1	Ca_Kabuli_Chr07	29134314	AA	GG	GG	INTERGENIC		
SNP_53702_A_29134321	NC_021166.1	Ca_Kabuli_Chr07	29134321	TT	CC	CC	INTERGENIC		
SNP_53703_A_29134331	NC_021166.1	Ca_Kabuli_Chr07	29134331	TT	CC	CC	INTERGENIC		
SNP_53704_A_29134341	NC_021166.1	Ca_Kabuli_Chr07	29134341	GG	AA	AA	INTERGENIC		
SNP_53705_A_29134625	NC_021166.1	Ca_Kabuli_Chr07	29134625	TT	GG	GG	INTERGENIC		
SNP_53706_A_29135611	NC_021166.1	Ca_Kabuli_Chr07	29135611	TT	GG	GG	DRR	101490219	uncharacterized LOC101490219
SNP_53708_A_29136774	NC_021166.1	Ca_Kabuli_Chr07	29136774	GG	CC	CC	INTERGENIC		
SNP_53709_A_29137155	NC_021166.1	Ca_Kabuli_Chr07	29137155	GG	TT	TT	INTERGENIC		
SNP_53710_A_29138450	NC_021166.1	Ca_Kabuli_Chr07	29138450	CC	TT	TT	INTERGENIC		
SNP_53711_A_29138464	NC_021166.1	Ca_Kabuli_Chr07	29138464	TT	CC	CC	INTERGENIC		
SNP_53712_A_29140270	NC_021166.1	Ca_Kabuli_Chr07	29140270	AA	TT	TT	URR	101490219	uncharacterized LOC101490219
SNP_53713_A_29140287	NC_021166.1	Ca_Kabuli_Chr07	29140287	CC	TT	TT	URR	101490219	uncharacterized LOC101490219

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53714_A_29142943	NC_021166.1	Ca_Kabuli_Chr07	29142943	TT	AA	AA	INTERGENIC		
SNP_53715_A_29142947	NC_021166.1	Ca_Kabuli_Chr07	29142947	TT	AA	AA	INTERGENIC		
SNP_53716_A_29143751	NC_021166.1	Ca_Kabuli_Chr07	29143751	AA	GG	GG	INTERGENIC		
SNP_53717_A_29145024	NC_021166.1	Ca_Kabuli_Chr07	29145024	GG	AA	AA	INTRON	101491622	uncharacterized LOC101491622
SNP_53718_A_29153091	NC_021166.1	Ca_Kabuli_Chr07	29153091	AA	GG	GG	INTRON	101491622	uncharacterized LOC101491622
SNP_53719_A_29163255	NC_021166.1	Ca_Kabuli_Chr07	29163255	TT	CC	CC	INTERGENIC		
SNP_53720_A_29164623	NC_021166.1	Ca_Kabuli_Chr07	29164623	AA	TT	TT	DRR	101492381	zinc finger protein 593-like
SNP_53721_A_29164723	NC_021166.1	Ca_Kabuli_Chr07	29164723	TT	AA	AA	DRR	101492381	zinc finger protein 593-like
SNP_53723_A_29165905	NC_021166.1	Ca_Kabuli_Chr07	29165905	CC	TT	TT	INTRON	101492381	zinc finger protein 593-like
SNP_53724_A_29165917	NC_021166.1	Ca_Kabuli_Chr07	29165917	GG	AA	AA	INTRON	101492381	zinc finger protein 593-like
SNP_53725_A_29167218	NC_021166.1	Ca_Kabuli_Chr07	29167218	TT	CC	CC	URR	101492381	zinc finger protein 593-like
SNP_53726_A_29172135	NC_021166.1	Ca_Kabuli_Chr07	29172135	TT	CC	CC	DRR	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53727_A_29172167	NC_021166.1	Ca_Kabuli_Chr07	29172167	GG	CC	CC	DRR	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53729_A_29172546	NC_021166.1	Ca_Kabuli_Chr07	29172546	CC	AA	AA	INTRON	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53730_A_29172724	NC_021166.1	Ca_Kabuli_Chr07	29172724	GG	CC	CC	INTRON	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53731_A_29172725	NC_021166.1	Ca_Kabuli_Chr07	29172725	GG	TT	TT	INTRON	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53732_A_29175133	NC_021166.1	Ca_Kabuli_Chr07	29175133	TT	AA	AA	URR	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53733_A_29176663	NC_021166.1	Ca_Kabuli_Chr07	29176663	AA	GG	GG	URR	101492713	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53736_A_29181975	NC_021166.1	Ca_Kabuli_Chr07	29181975	TT	CC	CC	INTERGENIC		
SNP_53737_A_29184529	NC_021166.1	Ca_Kabuli_Chr07	29184529	GG	AA	AA	URR	101493370	cytochrome b561 and DOMON domain-containing protein At2g04850-like
SNP_53738_A_29184773	NC_021166.1	Ca_Kabuli_Chr07	29184773	GG	AA	AA	URR	101493691	uncharacterized LOC101493691
SNP_53739_A_29186767	NC_021166.1	Ca_Kabuli_Chr07	29186767	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53740_A_29188050	NC_021166.1	Ca_Kabuli_Chr07	29188050	TT	CC	CC	INTERGENIC			
SNP_53741_A_29188098	NC_021166.1	Ca_Kabuli_Chr07	29188098	GG	AA	AA	INTERGENIC			
SNP_53742_A_29188107	NC_021166.1	Ca_Kabuli_Chr07	29188107	GG	AA	AA	INTERGENIC			
SNP_53745_A_29196598	NC_021166.1	Ca_Kabuli_Chr07	29196598	GG	AA	AA	INTERGENIC			
SNP_53746_A_29198689	NC_021166.1	Ca_Kabuli_Chr07	29198689	GG	AA	AA	DRR		101498998	NAC transcription factor 29-like
SNP_53747_A_29198695	NC_021166.1	Ca_Kabuli_Chr07	29198695	CC	TT	TT	DRR		101498998	NAC transcription factor 29-like
SNP_53748_A_29200929	NC_021166.1	Ca_Kabuli_Chr07	29200929	CC	AA	AA	URR		101498998	NAC transcription factor 29-like
SNP_53749_A_29208166	NC_021166.1	Ca_Kabuli_Chr07	29208166	AA	GG	GG	INTERGENIC			
SNP_53751_A_29208235	NC_021166.1	Ca_Kabuli_Chr07	29208235	CC	AA	AA	INTERGENIC			
SNP_53752_A_29208243	NC_021166.1	Ca_Kabuli_Chr07	29208243	AA	GG	GG	INTERGENIC			
SNP_53753_A_29208244	NC_021166.1	Ca_Kabuli_Chr07	29208244	TT	AA	AA	INTERGENIC			
SNP_53754_A_29209655	NC_021166.1	Ca_Kabuli_Chr07	29209655	TT	CC	CC	INTERGENIC			
SNP_53755_A_29209688	NC_021166.1	Ca_Kabuli_Chr07	29209688	GG	TT	TT	INTERGENIC			
SNP_53756_A_29218670	NC_021166.1	Ca_Kabuli_Chr07	29218670	AA	TT	TT	INTERGENIC			
SNP_53758_A_29221730	NC_021166.1	Ca_Kabuli_Chr07	29221730	AA	GG	GG	INTERGENIC			
SNP_53760_A_29223440	NC_021166.1	Ca_Kabuli_Chr07	29223440	TT	GG	GG	URR		101494326	protein SCAI
SNP_53762_A_29224379	NC_021166.1	Ca_Kabuli_Chr07	29224379	GG	CC	CC	INTRON		101494639	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12
SNP_53763_A_29224457	NC_021166.1	Ca_Kabuli_Chr07	29224457	CC	AA	AA	INTRON		101494639	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12
SNP_53764_A_29224486	NC_021166.1	Ca_Kabuli_Chr07	29224486	TT	CC	CC	INTRON		101494639	probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12
SNP_53766_A_29230368	NC_021166.1	Ca_Kabuli_Chr07	29230368	AA	GG	GG	INTERGENIC			
SNP_53767_A_29232140	NC_021166.1	Ca_Kabuli_Chr07	29232140	CC	GG	GG	URR		101494955	splicing factor 3A subunit 2
SNP_53768_A_29232146	NC_021166.1	Ca_Kabuli_Chr07	29232146	AA	GG	GG	URR		101494955	splicing factor 3A subunit 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53769_A_29232169	NC_021166.1	Ca_Kabuli_Chr07	29232169	TT	CC	CC	URR	101494955	splicing factor 3A subunit 2
SNP_53770_A_29232347	NC_021166.1	Ca_Kabuli_Chr07	29232347	TT	AA	AA	URR	101494955	splicing factor 3A subunit 2
SNP_53771_A_29232376	NC_021166.1	Ca_Kabuli_Chr07	29232376	TT	CC	CC	URR	101494955	splicing factor 3A subunit 2
SNP_53772_A_29232791	NC_021166.1	Ca_Kabuli_Chr07	29232791	AA	TT	TT	URR	101494955	splicing factor 3A subunit 2
SNP_53773_A_29233471	NC_021166.1	Ca_Kabuli_Chr07	29233471	TT	AA	AA	URR	101494955	splicing factor 3A subunit 2
SNP_53774_A_29233488	NC_021166.1	Ca_Kabuli_Chr07	29233488	AA	CC	CC	URR	101494955	splicing factor 3A subunit 2
SNP_53775_A_29233491	NC_021166.1	Ca_Kabuli_Chr07	29233491	GG	AA	AA	URR	101494955	splicing factor 3A subunit 2
SNP_53776_A_29234767	NC_021166.1	Ca_Kabuli_Chr07	29234767	TT	CC	CC	DRR	101495283	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53777_A_29236493	NC_021166.1	Ca_Kabuli_Chr07	29236493	TT	CC	CC	INTERGENIC		
SNP_53779_A_29240433	NC_021166.1	Ca_Kabuli_Chr07	29240433	GG	AA	AA	URR	101495283	2-alkenal reductase (NADP(+)-dependent)-like
SNP_53780_A_29242730	NC_021166.1	Ca_Kabuli_Chr07	29242730	GG	AA	AA	INTERGENIC		
SNP_53781_A_29244583	NC_021166.1	Ca_Kabuli_Chr07	29244583	AA	GG	GG	INTERGENIC		
SNP_53782_A_29245245	NC_021166.1	Ca_Kabuli_Chr07	29245245	CC	TT	TT	INTERGENIC		
SNP_53783_A_29246482	NC_021166.1	Ca_Kabuli_Chr07	29246482	TT	CC	CC	INTERGENIC		
SNP_53784_A_29246531	NC_021166.1	Ca_Kabuli_Chr07	29246531	TT	CC	CC	INTERGENIC		
SNP_53785_A_29246595	NC_021166.1	Ca_Kabuli_Chr07	29246595	CC	AA	AA	INTERGENIC		
SNP_53786_A_29246858	NC_021166.1	Ca_Kabuli_Chr07	29246858	CC	TT	TT	INTERGENIC		
SNP_53787_A_29250345	NC_021166.1	Ca_Kabuli_Chr07	29250345	TT	CC	CC	INTERGENIC		
SNP_53788_A_29250899	NC_021166.1	Ca_Kabuli_Chr07	29250899	AA	CC	CC	INTERGENIC		
SNP_53789_A_29251216	NC_021166.1	Ca_Kabuli_Chr07	29251216	AA	GG	GG	INTERGENIC		
SNP_53790_A_29251679	NC_021166.1	Ca_Kabuli_Chr07	29251679	GG	TT	TT	INTERGENIC		
SNP_53791_A_29252698	NC_021166.1	Ca_Kabuli_Chr07	29252698	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53792_A_29253603	NC_021166.1	Ca_Kabuli_Chr07	29253603	GG	AA	AA	INTERGENIC		
SNP_53793_A_29254022	NC_021166.1	Ca_Kabuli_Chr07	29254022	TT	AA	AA	INTERGENIC		
SNP_53794_A_29258380	NC_021166.1	Ca_Kabuli_Chr07	29258380	GG	AA	AA	INTERGENIC		
SNP_53795_A_29259839	NC_021166.1	Ca_Kabuli_Chr07	29259839	AA	GG	GG	INTERGENIC		
SNP_53796_A_29260175	NC_021166.1	Ca_Kabuli_Chr07	29260175	TT	GG	GG	INTERGENIC		
SNP_53797_A_29262185	NC_021166.1	Ca_Kabuli_Chr07	29262185	CC	TT	TT	DRR	101499319	probable polygalacturonase At3g15720
SNP_53799_A_29266587	NC_021166.1	Ca_Kabuli_Chr07	29266587	GG	TT	TT	URR	101499319	probable polygalacturonase At3g15720
SNP_53800_A_29266829	NC_021166.1	Ca_Kabuli_Chr07	29266829	GG	CC	CC	URR	101499319	probable polygalacturonase At3g15720
SNP_53801_A_29269168	NC_021166.1	Ca_Kabuli_Chr07	29269168	AA	GG	GG	INTERGENIC		
SNP_53802_A_29270449	NC_021166.1	Ca_Kabuli_Chr07	29270449	AA	TT	TT	INTERGENIC		
SNP_53803_A_29270491	NC_021166.1	Ca_Kabuli_Chr07	29270491	AA	GG	GG	INTERGENIC		
SNP_53804_A_29270595	NC_021166.1	Ca_Kabuli_Chr07	29270595	GG	TT	TT	INTERGENIC		
SNP_53806_A_29289979	NC_021166.1	Ca_Kabuli_Chr07	29289979	CC	TT	TT	INTRON	101499635	probable polygalacturonase At3g15720
SNP_53807_A_29291022	NC_021166.1	Ca_Kabuli_Chr07	29291022	GG	AA	AA	INTRON	101499635	probable polygalacturonase At3g15720
SNP_53808_A_29291419	NC_021166.1	Ca_Kabuli_Chr07	29291419	TT	CC	CC	INTRON	101499635	probable polygalacturonase At3g15720
SNP_53809_A_29291972	NC_021166.1	Ca_Kabuli_Chr07	29291972	CC	AA	AA	URR	101499635	probable polygalacturonase At3g15720
SNP_53810_A_29291974	NC_021166.1	Ca_Kabuli_Chr07	29291974	TT	CC	CC	URR	101499635	probable polygalacturonase At3g15720
SNP_53811_A_29294187	NC_021166.1	Ca_Kabuli_Chr07	29294187	TT	GG	GG	INTERGENIC		
SNP_53812_A_29294193	NC_021166.1	Ca_Kabuli_Chr07	29294193	TT	CC	CC	INTERGENIC		
SNP_53814_A_29300894	NC_021166.1	Ca_Kabuli_Chr07	29300894	CC	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53815_A_29300932	NC_021166.1	Ca_Kabuli_Chr07	29300932	AA	GG	GG	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53816_A_29301213	NC_021166.1	Ca_Kabuli_Chr07	29301213	TT	CC	CC	INTRON	101499939	probable polygalacturonase At3g15720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53817_A_29301214	NC_021166.1	Ca_Kabuli_Chr07	29301214	GG	AA	AA	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53818_A_29301221	NC_021166.1	Ca_Kabuli_Chr07	29301221	CC	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53819_A_29301226	NC_021166.1	Ca_Kabuli_Chr07	29301226	TT	CC	CC	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53820_A_29306670	NC_021166.1	Ca_Kabuli_Chr07	29306670	GG	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53821_A_29307050	NC_021166.1	Ca_Kabuli_Chr07	29307050	GG	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53822_A_29307387	NC_021166.1	Ca_Kabuli_Chr07	29307387	GG	CC	CC	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53823_A_29310933	NC_021166.1	Ca_Kabuli_Chr07	29310933	TT	CC	CC	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53824_A_29310946	NC_021166.1	Ca_Kabuli_Chr07	29310946	TT	CC	CC	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53825_A_29310960	NC_021166.1	Ca_Kabuli_Chr07	29310960	AA	GG	GG	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53826_A_29310990	NC_021166.1	Ca_Kabuli_Chr07	29310990	TT	GG	GG	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53827_A_29310991	NC_021166.1	Ca_Kabuli_Chr07	29310991	CC	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53828_A_29311446	NC_021166.1	Ca_Kabuli_Chr07	29311446	AA	GG	GG	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53829_A_29311739	NC_021166.1	Ca_Kabuli_Chr07	29311739	GG	TT	TT	INTRON	101499939	probable polygalacturonase At3g15720
SNP_53830_A_29317785	NC_021166.1	Ca_Kabuli_Chr07	29317785	CC	TT	TT	INTERGENIC		
SNP_53831_A_29319896	NC_021166.1	Ca_Kabuli_Chr07	29319896	AA	GG	GG	INTERGENIC		
SNP_53832_A_29319901	NC_021166.1	Ca_Kabuli_Chr07	29319901	GG	AA	AA	INTERGENIC		
SNP_53833_A_29319963	NC_021166.1	Ca_Kabuli_Chr07	29319963	GG	AA	AA	INTERGENIC		
SNP_53834_A_29320319	NC_021166.1	Ca_Kabuli_Chr07	29320319	AA	GG	GG	INTERGENIC		
SNP_53835_A_29320612	NC_021166.1	Ca_Kabuli_Chr07	29320612	AA	GG	GG	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53836_A_29321376	NC_021166.1	Ca_Kabuli_Chr07	29321376	AA	CC	CC	NON_SYNONYMOUS_CODING	101495935	probable polygalacturonase At3g15720
SNP_53837_A_29321401	NC_021166.1	Ca_Kabuli_Chr07	29321401	TT	GG	GG	NON_SYNONYMOUS_CODING	101495935	probable polygalacturonase At3g15720
SNP_53838_A_29321631	NC_021166.1	Ca_Kabuli_Chr07	29321631	GG	TT	TT	INTRON	101495935	probable polygalacturonase At3g15720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53839_A_29321660	NC_021166.1	Ca_Kabuli_Chr07	29321660	TT	GG	GG	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53841_A_29322570	NC_021166.1	Ca_Kabuli_Chr07	29322570	AA	GG	GG	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53842_A_29322609	NC_021166.1	Ca_Kabuli_Chr07	29322609	GG	TT	TT	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53843_A_29322906	NC_021166.1	Ca_Kabuli_Chr07	29322906	CC	TT	TT	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53844_A_29324266	NC_021166.1	Ca_Kabuli_Chr07	29324266	TT	GG	GG	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53845_A_29324283	NC_021166.1	Ca_Kabuli_Chr07	29324283	AA	CC	CC	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53846_A_29324330	NC_021166.1	Ca_Kabuli_Chr07	29324330	AA	GG	GG	INTRON	101495935	probable polygalacturonase At3g15720
SNP_53847_A_29324369	NC_021166.1	Ca_Kabuli_Chr07	29324369	CC	GG	GG	NON_SYNONYMOUS_CODING	101495935	probable polygalacturonase At3g15720
SNP_53848_A_29324419	NC_021166.1	Ca_Kabuli_Chr07	29324419	AA	GG	GG	SYNONYMOUS_CODING	101495935	probable polygalacturonase At3g15720
SNP_53849_A_29324628	NC_021166.1	Ca_Kabuli_Chr07	29324628	TT	CC	CC	URR	101495935	probable polygalacturonase At3g15720
SNP_53851_A_29324669	NC_021166.1	Ca_Kabuli_Chr07	29324669	AA	GG	GG	URR	101495935	probable polygalacturonase At3g15720
SNP_53852_A_29324970	NC_021166.1	Ca_Kabuli_Chr07	29324970	AA	TT	TT	URR	101495935	probable polygalacturonase At3g15720
SNP_53853_A_29324973	NC_021166.1	Ca_Kabuli_Chr07	29324973	CC	TT	TT	URR	101495935	probable polygalacturonase At3g15720
SNP_53854_A_29324984	NC_021166.1	Ca_Kabuli_Chr07	29324984	AA	TT	TT	URR	101495935	probable polygalacturonase At3g15720
SNP_53855_A_29324995	NC_021166.1	Ca_Kabuli_Chr07	29324995	TT	CC	CC	URR	101495935	probable polygalacturonase At3g15720
SNP_53856_A_29325052	NC_021166.1	Ca_Kabuli_Chr07	29325052	GG	TT	TT	URR	101495935	probable polygalacturonase At3g15720
SNP_53857_A_29325501	NC_021166.1	Ca_Kabuli_Chr07	29325501	TT	AA	AA	URR	101495935	probable polygalacturonase At3g15720
SNP_53859_A_29329829	NC_021166.1	Ca_Kabuli_Chr07	29329829	GG	TT	TT	INTERGENIC		
SNP_53860_A_29329836	NC_021166.1	Ca_Kabuli_Chr07	29329836	CC	AA	AA	INTERGENIC		
SNP_53861_A_29329847	NC_021166.1	Ca_Kabuli_Chr07	29329847	AA	GG	GG	INTERGENIC		
SNP_53862_A_29329849	NC_021166.1	Ca_Kabuli_Chr07	29329849	GG	AA	AA	INTERGENIC		
SNP_53864_A_29335609	NC_021166.1	Ca_Kabuli_Chr07	29335609	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53865_A_29335633	NC_021166.1	Ca_Kabuli_Chr07	29335633	GG	AA	AA	INTERGENIC		
SNP_53866_A_29335943	NC_021166.1	Ca_Kabuli_Chr07	29335943	TT	CC	CC	INTERGENIC		
SNP_53867_A_29335966	NC_021166.1	Ca_Kabuli_Chr07	29335966	GG	AA	AA	INTERGENIC		
SNP_53868_A_29337175	NC_021166.1	Ca_Kabuli_Chr07	29337175	AA	TT	TT	SYNONYMOUS_CODING	101496270	probable polygalacturonase At3g15720
SNP_53869_A_29341831	NC_021166.1	Ca_Kabuli_Chr07	29341831	GG	AA	AA	URR	101496270	probable polygalacturonase At3g15720
SNP_53870_A_29343743	NC_021166.1	Ca_Kabuli_Chr07	29343743	AA	GG	GG	INTERGENIC		
SNP_53872_A_29344737	NC_021166.1	Ca_Kabuli_Chr07	29344737	TT	CC	CC	INTERGENIC		
SNP_53873_A_29346112	NC_021166.1	Ca_Kabuli_Chr07	29346112	GG	AA	AA	INTERGENIC		
SNP_53876_A_29348100	NC_021166.1	Ca_Kabuli_Chr07	29348100	TT	CC	CC	INTERGENIC		
SNP_53877_A_29350582	NC_021166.1	Ca_Kabuli_Chr07	29350582	GG	CC	CC	INTERGENIC		
SNP_53878_A_29353854	NC_021166.1	Ca_Kabuli_Chr07	29353854	GG	AA	AA	INTERGENIC		
SNP_53879_A_29354582	NC_021166.1	Ca_Kabuli_Chr07	29354582	AA	GG	GG	INTERGENIC		
SNP_53880_A_29355029	NC_021166.1	Ca_Kabuli_Chr07	29355029	TT	CC	CC	INTERGENIC		
SNP_53882_A_29380845	NC_021166.1	Ca_Kabuli_Chr07	29380845	TT	CC	CC	INTERGENIC		
SNP_53883_A_29382105	NC_021166.1	Ca_Kabuli_Chr07	29382105	TT	CC	CC	INTERGENIC		
SNP_53884_A_29382182	NC_021166.1	Ca_Kabuli_Chr07	29382182	GG	AA	AA	INTERGENIC		
SNP_53885_A_29385471	NC_021166.1	Ca_Kabuli_Chr07	29385471	GG	AA	AA	INTERGENIC		
SNP_53886_A_29386384	NC_021166.1	Ca_Kabuli_Chr07	29386384	CC	TT	TT	INTERGENIC		
SNP_53887_A_29386534	NC_021166.1	Ca_Kabuli_Chr07	29386534	TT	GG	GG	INTERGENIC		
SNP_53888_A_29386616	NC_021166.1	Ca_Kabuli_Chr07	29386616	GG	TT	TT	INTERGENIC		
SNP_53889_A_29386905	NC_021166.1	Ca_Kabuli_Chr07	29386905	CC	TT	TT	INTERGENIC		
SNP_53890_A_29386979	NC_021166.1	Ca_Kabuli_Chr07	29386979	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_53891_A_29387103	NC_021166.1	Ca_Kabuli_Chr07	29387103	GG	TT	TT	INTERGENIC			
SNP_53892_A_29387259	NC_021166.1	Ca_Kabuli_Chr07	29387259	TT	AA	AA	INTERGENIC			
SNP_53893_A_29387500	NC_021166.1	Ca_Kabuli_Chr07	29387500	TT	CC	CC	INTERGENIC			
SNP_53894_A_29387544	NC_021166.1	Ca_Kabuli_Chr07	29387544	TT	AA	AA	INTERGENIC			
SNP_53895_A_29387840	NC_021166.1	Ca_Kabuli_Chr07	29387840	GG	AA	AA	INTERGENIC			
SNP_53896_A_29387868	NC_021166.1	Ca_Kabuli_Chr07	29387868	GG	TT	TT	INTERGENIC			
SNP_53897_A_29388117	NC_021166.1	Ca_Kabuli_Chr07	29388117	GG	AA	AA	INTERGENIC			
SNP_53898_A_29388128	NC_021166.1	Ca_Kabuli_Chr07	29388128	TT	AA	AA	INTERGENIC			
SNP_53899_A_29388406	NC_021166.1	Ca_Kabuli_Chr07	29388406	CC	TT	TT	INTERGENIC			
SNP_53900_A_29388411	NC_021166.1	Ca_Kabuli_Chr07	29388411	AA	GG	GG	INTERGENIC			
SNP_53901_A_29388417	NC_021166.1	Ca_Kabuli_Chr07	29388417	CC	GG	GG	INTERGENIC			
SNP_53902_A_29388492	NC_021166.1	Ca_Kabuli_Chr07	29388492	AA	TT	TT	INTERGENIC			
SNP_53903_A_29388506	NC_021166.1	Ca_Kabuli_Chr07	29388506	GG	CC	CC	INTERGENIC			
SNP_53904_A_29388508	NC_021166.1	Ca_Kabuli_Chr07	29388508	GG	AA	AA	INTERGENIC			
SNP_53905_A_29388567	NC_021166.1	Ca_Kabuli_Chr07	29388567	TT	CC	CC	INTERGENIC			
SNP_53906_A_29388574	NC_021166.1	Ca_Kabuli_Chr07	29388574	CC	TT	TT	INTERGENIC			
SNP_53907_A_29388596	NC_021166.1	Ca_Kabuli_Chr07	29388596	TT	CC	CC	INTERGENIC			
SNP_53909_A_29388858	NC_021166.1	Ca_Kabuli_Chr07	29388858	CC	AA	AA	INTERGENIC			
SNP_53910_A_29392110	NC_021166.1	Ca_Kabuli_Chr07	29392110	GG	AA	AA	INTERGENIC			
SNP_53912_A_29392209	NC_021166.1	Ca_Kabuli_Chr07	29392209	CC	GG	GG	INTERGENIC			
SNP_53913_A_29392300	NC_021166.1	Ca_Kabuli_Chr07	29392300	GG	TT	TT	INTERGENIC			
SNP_53914_A_29392309	NC_021166.1	Ca_Kabuli_Chr07	29392309	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53915_A_29404731	NC_021166.1	Ca_Kabuli_Chr07	29404731	GG	AA	AA	INTERGENIC		
SNP_53916_A_29404839	NC_021166.1	Ca_Kabuli_Chr07	29404839	CC	TT	TT	INTERGENIC		
SNP_53917_A_29405977	NC_021166.1	Ca_Kabuli_Chr07	29405977	CC	TT	TT	DRR	101496919	probable polygalacturonase At3g15720
SNP_53918_A_29410120	NC_021166.1	Ca_Kabuli_Chr07	29410120	TT	CC	CC	INTRON	101496919	probable polygalacturonase At3g15720
SNP_53921_A_29416673	NC_021166.1	Ca_Kabuli_Chr07	29416673	GG	AA	AA	INTERGENIC		
SNP_53922_A_29417151	NC_021166.1	Ca_Kabuli_Chr07	29417151	GG	AA	AA	INTERGENIC		
SNP_53923_A_29417242	NC_021166.1	Ca_Kabuli_Chr07	29417242	TT	AA	AA	DRR	101497246	uncharacterized LOC101497246
SNP_53924_A_29417586	NC_021166.1	Ca_Kabuli_Chr07	29417586	TT	AA	AA	DRR	101497246	uncharacterized LOC101497246
SNP_53925_A_29417970	NC_021166.1	Ca_Kabuli_Chr07	29417970	GG	AA	AA	DRR	101497246	uncharacterized LOC101497246
SNP_53926_A_29417985	NC_021166.1	Ca_Kabuli_Chr07	29417985	AA	GG	GG	DRR	101497246	uncharacterized LOC101497246
SNP_53927_A_29418050	NC_021166.1	Ca_Kabuli_Chr07	29418050	GG	AA	AA	DRR	101497246	uncharacterized LOC101497246
SNP_53928_A_29418065	NC_021166.1	Ca_Kabuli_Chr07	29418065	CC	TT	TT	DRR	101497246	uncharacterized LOC101497246
SNP_53929_A_29418067	NC_021166.1	Ca_Kabuli_Chr07	29418067	AA	GG	GG	DRR	101497246	uncharacterized LOC101497246
SNP_53931_A_29418285	NC_021166.1	Ca_Kabuli_Chr07	29418285	CC	TT	TT	NON_SYNONYMOUS_CODING	101497246	uncharacterized LOC101497246
SNP_53932_A_29433295	NC_021166.1	Ca_Kabuli_Chr07	29433295	CC	AA	AA	INTRON	id172707	Unknown function
SNP_53933_A_29433354	NC_021166.1	Ca_Kabuli_Chr07	29433354	TT	CC	CC	INTRON	id172707	Unknown function
SNP_53934_A_29433372	NC_021166.1	Ca_Kabuli_Chr07	29433372	CC	TT	TT	INTRON	id172707	Unknown function
SNP_53935_A_29433448	NC_021166.1	Ca_Kabuli_Chr07	29433448	TT	AA	AA	INTRON	id172707	Unknown function
SNP_53936_A_29433627	NC_021166.1	Ca_Kabuli_Chr07	29433627	CC	TT	TT	SYNONYMOUS_STOP	id172707	Unknown function
SNP_53937_A_29433631	NC_021166.1	Ca_Kabuli_Chr07	29433631	TT	CC	CC	NON_SYNONYMOUS_CODING	id172707	Unknown function
SNP_53938_A_29433644	NC_021166.1	Ca_Kabuli_Chr07	29433644	CC	GG	GG	NON_SYNONYMOUS_CODING	id172707	Unknown function
SNP_53939_A_29433667	NC_021166.1	Ca_Kabuli_Chr07	29433667	AA	TT	TT	INTRON	id172707	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53940_A_29433738	NC_021166.1	Ca_Kabuli_Chr07	29433738	CC	TT	TT	INTRON	id172707	Unknown function
SNP_53941_A_29437362	NC_021166.1	Ca_Kabuli_Chr07	29437362	TT	CC	CC	INTRON	id172707	Unknown function
SNP_53942_A_29443272	NC_021166.1	Ca_Kabuli_Chr07	29443272	GG	TT	TT	INTERGENIC		
SNP_53943_A_29443274	NC_021166.1	Ca_Kabuli_Chr07	29443274	TT	GG	GG	INTERGENIC		
SNP_53944_A_29443445	NC_021166.1	Ca_Kabuli_Chr07	29443445	GG	AA	AA	INTERGENIC		
SNP_53945_A_29443522	NC_021166.1	Ca_Kabuli_Chr07	29443522	CC	TT	TT	INTERGENIC		
SNP_53946_A_29443524	NC_021166.1	Ca_Kabuli_Chr07	29443524	AA	GG	GG	INTERGENIC		
SNP_53947_A_29443531	NC_021166.1	Ca_Kabuli_Chr07	29443531	AA	GG	GG	INTERGENIC		
SNP_53948_A_29443565	NC_021166.1	Ca_Kabuli_Chr07	29443565	AA	GG	GG	INTERGENIC		
SNP_53949_A_29443685	NC_021166.1	Ca_Kabuli_Chr07	29443685	GG	AA	AA	INTERGENIC		
SNP_53950_A_29443706	NC_021166.1	Ca_Kabuli_Chr07	29443706	AA	GG	GG	INTERGENIC		
SNP_53951_A_29444491	NC_021166.1	Ca_Kabuli_Chr07	29444491	GG	TT	TT	INTERGENIC		
SNP_53952_A_29444503	NC_021166.1	Ca_Kabuli_Chr07	29444503	AA	TT	TT	INTERGENIC		
SNP_53953_A_29445332	NC_021166.1	Ca_Kabuli_Chr07	29445332	GG	AA	AA	INTERGENIC		
SNP_53954_A_29445334	NC_021166.1	Ca_Kabuli_Chr07	29445334	GG	AA	AA	INTERGENIC		
SNP_53955_A_29446053	NC_021166.1	Ca_Kabuli_Chr07	29446053	TT	CC	CC	INTERGENIC		
SNP_53957_A_29446136	NC_021166.1	Ca_Kabuli_Chr07	29446136	GG	AA	AA	DRR	101497804	uncharacterized hydrolase YNR064C
SNP_53959_A_29446259	NC_021166.1	Ca_Kabuli_Chr07	29446259	CC	AA	AA	DRR	101497804	uncharacterized hydrolase YNR064C
SNP_53960_A_29447057	NC_021166.1	Ca_Kabuli_Chr07	29447057	AA	CC	CC	DRR	101497804	uncharacterized hydrolase YNR064C
SNP_53961_A_29447355	NC_021166.1	Ca_Kabuli_Chr07	29447355	CC	TT	TT	NON_SYNONYMOUS_CODING	101497804	uncharacterized hydrolase YNR064C
SNP_53962_A_29449947	NC_021166.1	Ca_Kabuli_Chr07	29449947	GG	AA	AA	INTRON	101497804	uncharacterized hydrolase YNR064C
SNP_53963_A_29450303	NC_021166.1	Ca_Kabuli_Chr07	29450303	AA	GG	GG	INTRON	101497804	uncharacterized hydrolase YNR064C

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53964_A_29452550	NC_021166.1	Ca_Kabuli_Chr07	29452550	TT	GG	GG	URR	101497804	uncharacterized hydrolase YNR064C
SNP_53965_A_29452567	NC_021166.1	Ca_Kabuli_Chr07	29452567	TT	CC	CC	URR	101497804	uncharacterized hydrolase YNR064C
SNP_53966_A_29452803	NC_021166.1	Ca_Kabuli_Chr07	29452803	TT	CC	CC	URR	101497804	uncharacterized hydrolase YNR064C
SNP_53967_A_29455649	NC_021166.1	Ca_Kabuli_Chr07	29455649	GG	AA	AA	INTERGENIC		
SNP_53968_A_29455671	NC_021166.1	Ca_Kabuli_Chr07	29455671	AA	GG	GG	INTERGENIC		
SNP_53969_A_29456666	NC_021166.1	Ca_Kabuli_Chr07	29456666	AA	GG	GG	DRR	101498673	ubiquitin-like-conjugating enzyme ATG10
SNP_53970_A_29456733	NC_021166.1	Ca_Kabuli_Chr07	29456733	AA	TT	TT	DRR	101498673	ubiquitin-like-conjugating enzyme ATG10
SNP_53971_A_29457585	NC_021166.1	Ca_Kabuli_Chr07	29457585	CC	TT	TT	URR	101498329	uncharacterized LOC101498329
SNP_53972_A_29458440	NC_021166.1	Ca_Kabuli_Chr07	29458440	GG	AA	AA	URR	101498329	uncharacterized LOC101498329
SNP_53974_A_29460562	NC_021166.1	Ca_Kabuli_Chr07	29460562	AA	CC	CC	INTERGENIC		
SNP_53975_A_29460565	NC_021166.1	Ca_Kabuli_Chr07	29460565	TT	AA	AA	INTERGENIC		
SNP_53976_A_29460893	NC_021166.1	Ca_Kabuli_Chr07	29460893	TT	AA	AA	INTERGENIC		
SNP_53977_A_29464170	NC_021166.1	Ca_Kabuli_Chr07	29464170	GG	TT	TT	INTERGENIC		
SNP_53978_A_29464205	NC_021166.1	Ca_Kabuli_Chr07	29464205	CC	AA	AA	INTERGENIC		
SNP_53980_A_29466385	NC_021166.1	Ca_Kabuli_Chr07	29466385	AA	CC	CC	INTERGENIC		
SNP_53981_A_29468426	NC_021166.1	Ca_Kabuli_Chr07	29468426	TT	GG	GG	INTERGENIC		
SNP_53982_A_29470288	NC_021166.1	Ca_Kabuli_Chr07	29470288	TT	CC	CC	DRR	101499533	FRIGIDA-like protein 3
SNP_53983_A_29472046	NC_021166.1	Ca_Kabuli_Chr07	29472046	GG	CC	CC	INTRON	101499533	FRIGIDA-like protein 3
SNP_53984_A_29472313	NC_021166.1	Ca_Kabuli_Chr07	29472313	GG	AA	AA	INTRON	101499533	FRIGIDA-like protein 3
SNP_53985_A_29472348	NC_021166.1	Ca_Kabuli_Chr07	29472348	GG	AA	AA	INTRON	101499533	FRIGIDA-like protein 3
SNP_53986_A_29472364	NC_021166.1	Ca_Kabuli_Chr07	29472364	AA	GG	GG	INTRON	101499533	FRIGIDA-like protein 3
SNP_53987_A_29473575	NC_021166.1	Ca_Kabuli_Chr07	29473575	CC	TT	TT	SYNONYMOUS_CODING	101499533	FRIGIDA-like protein 3

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_53988_A_29473807	NC_021166.1	Ca_Kabuli_Chr07	29473807	TT	CC	CC	NON_SYNONYMOUS_CODING	101499533	FRIGIDA-like protein 3
SNP_53989_A_29475509	NC_021166.1	Ca_Kabuli_Chr07	29475509	TT	GG	GG	URR	101499533	FRIGIDA-like protein 3
SNP_53990_A_29475776	NC_021166.1	Ca_Kabuli_Chr07	29475776	AA	GG	GG	URR	101499533	FRIGIDA-like protein 3
SNP_53991_A_29479456	NC_021166.1	Ca_Kabuli_Chr07	29479456	AA	GG	GG	DRR	101499833	probably inactive leucine-rich repeat receptor-like protein kinase At5g48380
SNP_53992_A_29479463	NC_021166.1	Ca_Kabuli_Chr07	29479463	AA	GG	GG	DRR	101499833	probably inactive leucine-rich repeat receptor-like protein kinase At5g48380
SNP_53993_A_29479632	NC_021166.1	Ca_Kabuli_Chr07	29479632	CC	AA	AA	DRR	101499833	probably inactive leucine-rich repeat receptor-like protein kinase At5g48380
SNP_53994_A_29480242	NC_021166.1	Ca_Kabuli_Chr07	29480242	GG	CC	CC	INTRON	101499833	probably inactive leucine-rich repeat receptor-like protein kinase At5g48380
SNP_53995_A_29489068	NC_021166.1	Ca_Kabuli_Chr07	29489068	TT	CC	CC	INTERGENIC		
SNP_53997_A_29491669	NC_021166.1	Ca_Kabuli_Chr07	29491669	TT	AA	AA	INTERGENIC		
SNP_53998_A_29491733	NC_021166.1	Ca_Kabuli_Chr07	29491733	GG	AA	AA	INTERGENIC		
SNP_53999_A_29491734	NC_021166.1	Ca_Kabuli_Chr07	29491734	AA	GG	GG	INTERGENIC		
SNP_54000_A_29491803	NC_021166.1	Ca_Kabuli_Chr07	29491803	TT	AA	AA	INTERGENIC		
SNP_54001_A_29491863	NC_021166.1	Ca_Kabuli_Chr07	29491863	CC	AA	AA	INTERGENIC		
SNP_54002_A_29491886	NC_021166.1	Ca_Kabuli_Chr07	29491886	AA	GG	GG	INTERGENIC		
SNP_54003_A_29491944	NC_021166.1	Ca_Kabuli_Chr07	29491944	TT	GG	GG	INTERGENIC		
SNP_54004_A_29491965	NC_021166.1	Ca_Kabuli_Chr07	29491965	GG	AA	AA	INTERGENIC		
SNP_54005_A_29493837	NC_021166.1	Ca_Kabuli_Chr07	29493837	CC	TT	TT	INTERGENIC		
SNP_54006_A_29495352	NC_021166.1	Ca_Kabuli_Chr07	29495352	CC	TT	TT	INTERGENIC		
SNP_54008_A_29496598	NC_021166.1	Ca_Kabuli_Chr07	29496598	CC	TT	TT	INTERGENIC		
SNP_54009_A_29496634	NC_021166.1	Ca_Kabuli_Chr07	29496634	AA	CC	CC	INTERGENIC		
SNP_54010_A_29499854	NC_021166.1	Ca_Kabuli_Chr07	29499854	AA	GG	GG	INTERGENIC		
SNP_54011_A_29500255	NC_021166.1	Ca_Kabuli_Chr07	29500255	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54012_A_29501257	NC_021166.1	Ca_Kabuli_Chr07	29501257	CC	TT	TT	INTERGENIC		
SNP_54013_A_29501449	NC_021166.1	Ca_Kabuli_Chr07	29501449	TT	GG	GG	INTERGENIC		
SNP_54014_A_29501928	NC_021166.1	Ca_Kabuli_Chr07	29501928	GG	AA	AA	INTERGENIC		
SNP_54015_A_29504889	NC_021166.1	Ca_Kabuli_Chr07	29504889	TT	AA	AA	INTERGENIC		
SNP_54016_A_29504966	NC_021166.1	Ca_Kabuli_Chr07	29504966	CC	GG	GG	INTERGENIC		
SNP_54017_A_29505293	NC_021166.1	Ca_Kabuli_Chr07	29505293	AA	GG	GG	INTERGENIC		
SNP_54018_A_29509930	NC_021166.1	Ca_Kabuli_Chr07	29509930	CC	TT	TT	INTERGENIC		
SNP_54019_A_29510224	NC_021166.1	Ca_Kabuli_Chr07	29510224	CC	AA	AA	INTERGENIC		
SNP_54020_A_29510227	NC_021166.1	Ca_Kabuli_Chr07	29510227	TT	CC	CC	INTERGENIC		
SNP_54021_A_29512132	NC_021166.1	Ca_Kabuli_Chr07	29512132	CC	GG	GG	DRR	101500804	uncharacterized LOC101500804
SNP_54022_A_29512156	NC_021166.1	Ca_Kabuli_Chr07	29512156	AA	CC	CC	DRR	101500804	uncharacterized LOC101500804
SNP_54023_A_29526542	NC_021166.1	Ca_Kabuli_Chr07	29526542	GG	AA	AA	INTERGENIC		
SNP_54024_A_29526591	NC_021166.1	Ca_Kabuli_Chr07	29526591	TT	AA	AA	INTERGENIC		
SNP_54025_A_29526592	NC_021166.1	Ca_Kabuli_Chr07	29526592	AA	GG	GG	INTERGENIC		
SNP_54026_A_29526723	NC_021166.1	Ca_Kabuli_Chr07	29526723	GG	AA	AA	INTERGENIC		
SNP_54027_A_29526961	NC_021166.1	Ca_Kabuli_Chr07	29526961	AA	CC	CC	INTERGENIC		
SNP_54028_A_29528399	NC_021166.1	Ca_Kabuli_Chr07	29528399	AA	TT	TT	INTERGENIC		
SNP_54029_A_29533519	NC_021166.1	Ca_Kabuli_Chr07	29533519	TT	CC	CC	DRR	101500595	uncharacterized LOC101500595
SNP_54030_A_29534539	NC_021166.1	Ca_Kabuli_Chr07	29534539	TT	CC	CC	INTRON	101500595	uncharacterized LOC101500595
SNP_54033_A_29537422	NC_021166.1	Ca_Kabuli_Chr07	29537422	TT	AA	AA	INTRON	101500595	uncharacterized LOC101500595
SNP_54034_A_29538646	NC_021166.1	Ca_Kabuli_Chr07	29538646	CC	TT	TT	INTRON	101500595	uncharacterized LOC101500595
SNP_54035_A_29540648	NC_021166.1	Ca_Kabuli_Chr07	29540648	CC	GG	GG	INTRON	101500595	uncharacterized LOC101500595

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54036_A_29541201	NC_021166.1	Ca_Kabuli_Chr07	29541201	GG	AA	AA	INTRON	101500595	uncharacterized LOC101500595
SNP_54037_A_29541209	NC_021166.1	Ca_Kabuli_Chr07	29541209	TT	AA	AA	INTRON	101500595	uncharacterized LOC101500595
SNP_54038_A_29543338	NC_021166.1	Ca_Kabuli_Chr07	29543338	CC	GG	GG	INTRON	101500595	uncharacterized LOC101500595
SNP_54041_A_29553033	NC_021166.1	Ca_Kabuli_Chr07	29553033	TT	GG	GG	INTERGENIC		
SNP_54042_A_29553037	NC_021166.1	Ca_Kabuli_Chr07	29553037	TT	GG	GG	INTERGENIC		
SNP_54043_A_29553040	NC_021166.1	Ca_Kabuli_Chr07	29553040	CC	TT	TT	INTERGENIC		
SNP_54044_A_29553101	NC_021166.1	Ca_Kabuli_Chr07	29553101	AA	GG	GG	INTERGENIC		
SNP_54045_A_29553359	NC_021166.1	Ca_Kabuli_Chr07	29553359	TT	AA	AA	INTERGENIC		
SNP_54046_A_29553799	NC_021166.1	Ca_Kabuli_Chr07	29553799	GG	AA	AA	INTERGENIC		
SNP_54047_A_29555290	NC_021166.1	Ca_Kabuli_Chr07	29555290	TT	AA	AA	DRR	101500906	uncharacterized LOC101500906
SNP_54048_A_29558206	NC_021166.1	Ca_Kabuli_Chr07	29558206	AA	GG	GG	URR	101500906	uncharacterized LOC101500906
SNP_54049_A_29558498	NC_021166.1	Ca_Kabuli_Chr07	29558498	GG	CC	CC	URR	101500906	uncharacterized LOC101500906
SNP_54050_A_29560931	NC_021166.1	Ca_Kabuli_Chr07	29560931	CC	AA	AA	INTERGENIC		
SNP_54051_A_29561285	NC_021166.1	Ca_Kabuli_Chr07	29561285	AA	CC	CC	INTERGENIC		
SNP_54052_A_29561338	NC_021166.1	Ca_Kabuli_Chr07	29561338	TT	GG	GG	INTERGENIC		
SNP_54053_A_29562467	NC_021166.1	Ca_Kabuli_Chr07	29562467	TT	CC	CC	INTERGENIC		
SNP_54054_A_29565080	NC_021166.1	Ca_Kabuli_Chr07	29565080	TT	CC	CC	INTERGENIC		
SNP_54055_A_29565910	NC_021166.1	Ca_Kabuli_Chr07	29565910	GG	AA	AA	INTERGENIC		
SNP_54056_A_29567882	NC_021166.1	Ca_Kabuli_Chr07	29567882	TT	AA	AA	INTERGENIC		
SNP_54057_A_29570171	NC_021166.1	Ca_Kabuli_Chr07	29570171	TT	CC	CC	INTERGENIC		
SNP_54058_A_29570178	NC_021166.1	Ca_Kabuli_Chr07	29570178	CC	AA	AA	INTERGENIC		
SNP_54060_A_29572430	NC_021166.1	Ca_Kabuli_Chr07	29572430	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54061_A_29572431	NC_021166.1	Ca_Kabuli_Chr07	29572431	CC	TT	TT	INTERGENIC			
SNP_54062_A_29572908	NC_021166.1	Ca_Kabuli_Chr07	29572908	GG	AA	AA	INTERGENIC			
SNP_54063_A_29576192	NC_021166.1	Ca_Kabuli_Chr07	29576192	TT	GG	GG	INTERGENIC			
SNP_54064_A_29576200	NC_021166.1	Ca_Kabuli_Chr07	29576200	AA	GG	GG	INTERGENIC			
SNP_54065_A_29576202	NC_021166.1	Ca_Kabuli_Chr07	29576202	CC	GG	GG	INTERGENIC			
SNP_54066_A_29576683	NC_021166.1	Ca_Kabuli_Chr07	29576683	CC	TT	TT	INTERGENIC			
SNP_54067_A_29576695	NC_021166.1	Ca_Kabuli_Chr07	29576695	TT	CC	CC	INTERGENIC			
SNP_54068_A_29576707	NC_021166.1	Ca_Kabuli_Chr07	29576707	AA	GG	GG	INTERGENIC			
SNP_54069_A_29576714	NC_021166.1	Ca_Kabuli_Chr07	29576714	CC	TT	TT	INTERGENIC			
SNP_54070_A_29576878	NC_021166.1	Ca_Kabuli_Chr07	29576878	AA	TT	TT	INTERGENIC			
SNP_54071_A_29576892	NC_021166.1	Ca_Kabuli_Chr07	29576892	CC	TT	TT	INTERGENIC			
SNP_54072_A_29579898	NC_021166.1	Ca_Kabuli_Chr07	29579898	CC	AA	AA	INTERGENIC			
SNP_54073_A_29580158	NC_021166.1	Ca_Kabuli_Chr07	29580158	GG	AA	AA	INTERGENIC			
SNP_54075_A_29581607	NC_021166.1	Ca_Kabuli_Chr07	29581607	GG	AA	AA	INTERGENIC			
SNP_54076_A_29581912	NC_021166.1	Ca_Kabuli_Chr07	29581912	GG	AA	AA	INTERGENIC			
SNP_54077_A_29581926	NC_021166.1	Ca_Kabuli_Chr07	29581926	CC	TT	TT	INTERGENIC			
SNP_54078_A_29581991	NC_021166.1	Ca_Kabuli_Chr07	29581991	GG	AA	AA	INTERGENIC			
SNP_54080_A_29582042	NC_021166.1	Ca_Kabuli_Chr07	29582042	CC	TT	TT	INTERGENIC			
SNP_54081_A_29582047	NC_021166.1	Ca_Kabuli_Chr07	29582047	AA	TT	TT	INTERGENIC			
SNP_54082_A_29582189	NC_021166.1	Ca_Kabuli_Chr07	29582189	GG	AA	AA	INTERGENIC			
SNP_54084_A_29584370	NC_021166.1	Ca_Kabuli_Chr07	29584370	AA	CC	CC	INTERGENIC			
SNP_54086_A_29584963	NC_021166.1	Ca_Kabuli_Chr07	29584963	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54087_A_29587180	NC_021166.1	Ca_Kabuli_Chr07	29587180	TT	AA	AA	INTERGENIC		
SNP_54088_A_29587247	NC_021166.1	Ca_Kabuli_Chr07	29587247	CC	TT	TT	INTERGENIC		
SNP_54089_A_29593840	NC_021166.1	Ca_Kabuli_Chr07	29593840	AA	TT	TT	INTERGENIC		
SNP_54091_A_29596070	NC_021166.1	Ca_Kabuli_Chr07	29596070	CC	TT	TT	INTERGENIC		
SNP_54092_A_29599671	NC_021166.1	Ca_Kabuli_Chr07	29599671	AA	GG	GG	INTERGENIC		
SNP_54093_A_29609773	NC_021166.1	Ca_Kabuli_Chr07	29609773	TT	CC	CC	URR	101501863	Unknown function
SNP_54095_A_29610046	NC_021166.1	Ca_Kabuli_Chr07	29610046	AA	GG	GG	URR	101501863	Unknown function
SNP_54097_A_29610159	NC_021166.1	Ca_Kabuli_Chr07	29610159	TT	CC	CC	URR	101501863	Unknown function
SNP_54098_A_29610180	NC_021166.1	Ca_Kabuli_Chr07	29610180	CC	TT	TT	URR	101501863	Unknown function
SNP_54099_A_29610208	NC_021166.1	Ca_Kabuli_Chr07	29610208	TT	AA	AA	URR	101501863	Unknown function
SNP_54100_A_29610298	NC_021166.1	Ca_Kabuli_Chr07	29610298	TT	CC	CC	URR	101501863	Unknown function
SNP_54101_A_29610384	NC_021166.1	Ca_Kabuli_Chr07	29610384	TT	GG	GG	URR	101501863	Unknown function
SNP_54102_A_29613177	NC_021166.1	Ca_Kabuli_Chr07	29613177	TT	GG	GG	INTERGENIC		
SNP_54103_A_29613361	NC_021166.1	Ca_Kabuli_Chr07	29613361	CC	AA	AA	INTERGENIC		
SNP_54104_A_29613768	NC_021166.1	Ca_Kabuli_Chr07	29613768	TT	CC	CC	INTERGENIC		
SNP_54105_A_29613918	NC_021166.1	Ca_Kabuli_Chr07	29613918	CC	GG	GG	INTERGENIC		
SNP_54106_A_29614407	NC_021166.1	Ca_Kabuli_Chr07	29614407	AA	CC	CC	INTERGENIC		
SNP_54107_A_29614854	NC_021166.1	Ca_Kabuli_Chr07	29614854	CC	AA	AA	INTERGENIC		
SNP_54108_A_29615086	NC_021166.1	Ca_Kabuli_Chr07	29615086	GG	AA	AA	INTERGENIC		
SNP_54109_A_29615155	NC_021166.1	Ca_Kabuli_Chr07	29615155	TT	GG	GG	INTERGENIC		
SNP_54112_A_29615489	NC_021166.1	Ca_Kabuli_Chr07	29615489	CC	AA	AA	INTERGENIC		
SNP_54113_A_29615491	NC_021166.1	Ca_Kabuli_Chr07	29615491	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54114_A_29615550	NC_021166.1	Ca_Kabuli_Chr07	29615550	GG	TT	TT	INTERGENIC			
SNP_54115_A_29615579	NC_021166.1	Ca_Kabuli_Chr07	29615579	GG	AA	AA	INTERGENIC			
SNP_54116_A_29615601	NC_021166.1	Ca_Kabuli_Chr07	29615601	GG	CC	CC	INTERGENIC			
SNP_54118_A_29615796	NC_021166.1	Ca_Kabuli_Chr07	29615796	CC	AA	AA	INTERGENIC			
SNP_54119_A_29616197	NC_021166.1	Ca_Kabuli_Chr07	29616197	AA	CC	CC	INTERGENIC			
SNP_54120_A_29616735	NC_021166.1	Ca_Kabuli_Chr07	29616735	GG	TT	TT	INTERGENIC			
SNP_54122_A_29617008	NC_021166.1	Ca_Kabuli_Chr07	29617008	GG	AA	AA	INTERGENIC			
SNP_54123_A_29617110	NC_021166.1	Ca_Kabuli_Chr07	29617110	AA	GG	GG	INTERGENIC			
SNP_54125_A_29617348	NC_021166.1	Ca_Kabuli_Chr07	29617348	AA	GG	GG	INTERGENIC			
SNP_54126_A_29617368	NC_021166.1	Ca_Kabuli_Chr07	29617368	GG	TT	TT	INTERGENIC			
SNP_54127_A_29617440	NC_021166.1	Ca_Kabuli_Chr07	29617440	CC	GG	GG	INTERGENIC			
SNP_54128_A_29617572	NC_021166.1	Ca_Kabuli_Chr07	29617572	GG	AA	AA	INTERGENIC			
SNP_54129_A_29617654	NC_021166.1	Ca_Kabuli_Chr07	29617654	AA	GG	GG	INTERGENIC			
SNP_54130_A_29617755	NC_021166.1	Ca_Kabuli_Chr07	29617755	AA	GG	GG	INTERGENIC			
SNP_54131_A_29617819	NC_021166.1	Ca_Kabuli_Chr07	29617819	CC	AA	AA	INTERGENIC			
SNP_54132_A_29617925	NC_021166.1	Ca_Kabuli_Chr07	29617925	GG	AA	AA	INTERGENIC			
SNP_54133_A_29617967	NC_021166.1	Ca_Kabuli_Chr07	29617967	AA	GG	GG	INTERGENIC			
SNP_54134_A_29618010	NC_021166.1	Ca_Kabuli_Chr07	29618010	CC	TT	TT	INTERGENIC			
SNP_54135_A_29618111	NC_021166.1	Ca_Kabuli_Chr07	29618111	AA	TT	TT	INTERGENIC			
SNP_54136_A_29618147	NC_021166.1	Ca_Kabuli_Chr07	29618147	CC	TT	TT	INTERGENIC			
SNP_54137_A_29618228	NC_021166.1	Ca_Kabuli_Chr07	29618228	CC	TT	TT	INTERGENIC			
SNP_54138_A_29618573	NC_021166.1	Ca_Kabuli_Chr07	29618573	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54139_A_29631555	NC_021166.1	Ca_Kabuli_Chr07	29631555	AA	TT	TT	DRR	101501329	uncharacterized LOC101501329
SNP_54140_A_29631709	NC_021166.1	Ca_Kabuli_Chr07	29631709	CC	TT	TT	DRR	101501329	uncharacterized LOC101501329
SNP_54141_A_29644064	NC_021166.1	Ca_Kabuli_Chr07	29644064	TT	CC	CC	INTERGENIC		
SNP_54142_A_29645381	NC_021166.1	Ca_Kabuli_Chr07	29645381	GG	AA	AA	INTERGENIC		
SNP_54143_A_29645382	NC_021166.1	Ca_Kabuli_Chr07	29645382	CC	AA	AA	INTERGENIC		
SNP_54144_A_29645412	NC_021166.1	Ca_Kabuli_Chr07	29645412	AA	GG	GG	INTERGENIC		
SNP_54145_A_29645454	NC_021166.1	Ca_Kabuli_Chr07	29645454	AA	GG	GG	INTERGENIC		
SNP_54146_A_29645457	NC_021166.1	Ca_Kabuli_Chr07	29645457	CC	TT	TT	INTERGENIC		
SNP_54147_A_29645532	NC_021166.1	Ca_Kabuli_Chr07	29645532	AA	GG	GG	INTERGENIC		
SNP_54150_A_29646350	NC_021166.1	Ca_Kabuli_Chr07	29646350	CC	TT	TT	INTERGENIC		
SNP_54151_A_29646359	NC_021166.1	Ca_Kabuli_Chr07	29646359	AA	GG	GG	INTERGENIC		
SNP_54152_A_29646390	NC_021166.1	Ca_Kabuli_Chr07	29646390	GG	AA	AA	INTERGENIC		
SNP_54153_A_29646400	NC_021166.1	Ca_Kabuli_Chr07	29646400	TT	CC	CC	INTERGENIC		
SNP_54154_A_29647704	NC_021166.1	Ca_Kabuli_Chr07	29647704	TT	CC	CC	INTERGENIC		
SNP_54155_A_29649380	NC_021166.1	Ca_Kabuli_Chr07	29649380	TT	AA	AA	INTRON	101501646	chromo domain-containing protein LHP1-like
SNP_54156_A_29667252	NC_021166.1	Ca_Kabuli_Chr07	29667252	GG	TT	TT	INTRON	101501959	MLO-like protein 1
SNP_54157_A_29668051	NC_021166.1	Ca_Kabuli_Chr07	29668051	AA	GG	GG	SYNONYMOUS_CODING	101501959	MLO-like protein 1
SNP_54158_A_29672630	NC_021166.1	Ca_Kabuli_Chr07	29672630	CC	AA	AA	DRR	101502292	uncharacterized LOC101502292
SNP_54160_A_29673517	NC_021166.1	Ca_Kabuli_Chr07	29673517	AA	GG	GG	DRR	101502292	uncharacterized LOC101502292
SNP_54161_A_29673524	NC_021166.1	Ca_Kabuli_Chr07	29673524	AA	GG	GG	DRR	101502292	uncharacterized LOC101502292
SNP_54163_A_29674513	NC_021166.1	Ca_Kabuli_Chr07	29674513	AA	GG	GG	INTERGENIC		
SNP_54164_A_29674532	NC_021166.1	Ca_Kabuli_Chr07	29674532	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54165_A_29675596	NC_021166.1	Ca_Kabuli_Chr07	29675596	TT	AA	AA	URR	101502292	uncharacterized LOC101502292
SNP_54166_A_29690408	NC_021166.1	Ca_Kabuli_Chr07	29690408	TT	GG	GG	DRR	101503792	uncharacterized protein At2g37660, chloroplastic
SNP_54167_A_29690840	NC_021166.1	Ca_Kabuli_Chr07	29690840	AA	CC	CC	DRR	101503792	uncharacterized protein At2g37660, chloroplastic
SNP_54168_A_29693981	NC_021166.1	Ca_Kabuli_Chr07	29693981	CC	AA	AA	INTRON	101503792	uncharacterized protein At2g37660, chloroplastic
SNP_54169_A_29694538	NC_021166.1	Ca_Kabuli_Chr07	29694538	AA	GG	GG	INTRON	101503792	uncharacterized protein At2g37660, chloroplastic
SNP_54170_A_29694554	NC_021166.1	Ca_Kabuli_Chr07	29694554	AA	GG	GG	INTRON	101503792	uncharacterized protein At2g37660, chloroplastic
SNP_54171_A_29702632	NC_021166.1	Ca_Kabuli_Chr07	29702632	AA	GG	GG	URR	101503454	uncharacterized LOC101503454
SNP_54172_A_29703231	NC_021166.1	Ca_Kabuli_Chr07	29703231	AA	GG	GG	SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54173_A_29704127	NC_021166.1	Ca_Kabuli_Chr07	29704127	GG	CC	CC	NON_SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54174_A_29704130	NC_021166.1	Ca_Kabuli_Chr07	29704130	AA	CC	CC	NON_SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54175_A_29704423	NC_021166.1	Ca_Kabuli_Chr07	29704423	TT	CC	CC	NON_SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54176_A_29705987	NC_021166.1	Ca_Kabuli_Chr07	29705987	TT	CC	CC	NON_SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54177_A_29706633	NC_021166.1	Ca_Kabuli_Chr07	29706633	GG	AA	AA	SYNONYMOUS_CODING	101504115	uncharacterized LOC101504115
SNP_54178_A_29711919	NC_021166.1	Ca_Kabuli_Chr07	29711919	TT	AA	AA	INTRON	101504115	uncharacterized LOC101504115
SNP_54179_A_29713128	NC_021166.1	Ca_Kabuli_Chr07	29713128	CC	TT	TT	URR	101504115	uncharacterized LOC101504115
SNP_54180_A_29713646	NC_021166.1	Ca_Kabuli_Chr07	29713646	GG	CC	CC	URR	101504115	uncharacterized LOC101504115
SNP_54181_A_29713700	NC_021166.1	Ca_Kabuli_Chr07	29713700	AA	TT	TT	URR	101504115	uncharacterized LOC101504115
SNP_54182_A_29716384	NC_021166.1	Ca_Kabuli_Chr07	29716384	GG	AA	AA	INTERGENIC		
SNP_54183_A_29719052	NC_021166.1	Ca_Kabuli_Chr07	29719052	CC	TT	TT	INTERGENIC		
SNP_54184_A_29734104	NC_021166.1	Ca_Kabuli_Chr07	29734104	TT	CC	CC	NON_SYNONYMOUS_CODING	101502188	uncharacterized LOC101502188
SNP_54185_A_29735273	NC_021166.1	Ca_Kabuli_Chr07	29735273	AA	GG	GG	URR	101502188	uncharacterized LOC101502188
SNP_54187_A_29736938	NC_021166.1	Ca_Kabuli_Chr07	29736938	TT	AA	AA	INTERGENIC		

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SNP_54188_A_29737000	NC_021166.1	Ca_Kabuli_Chr07	29737000	CC	TT	TT	INTERGENIC		
SNP_54189_A_29737018	NC_021166.1	Ca_Kabuli_Chr07	29737018	GG	CC	CC	INTERGENIC		
SNP_54190_A_29737276	NC_021166.1	Ca_Kabuli_Chr07	29737276	TT	CC	CC	INTERGENIC		
SNP_54191_A_29741251	NC_021166.1	Ca_Kabuli_Chr07	29741251	AA	CC	CC	INTERGENIC		
SNP_54192_A_29741474	NC_021166.1	Ca_Kabuli_Chr07	29741474	AA	TT	TT	INTERGENIC		
SNP_54193_A_29742596	NC_021166.1	Ca_Kabuli_Chr07	29742596	TT	CC	CC	INTERGENIC		
SNP_54194_A_29744119	NC_021166.1	Ca_Kabuli_Chr07	29744119	AA	TT	TT	INTERGENIC		
SNP_54195_A_29744444	NC_021166.1	Ca_Kabuli_Chr07	29744444	CC	TT	TT	INTERGENIC		
SNP_54196_A_29744453	NC_021166.1	Ca_Kabuli_Chr07	29744453	AA	GG	GG	INTERGENIC		
SNP_54197_A_29744491	NC_021166.1	Ca_Kabuli_Chr07	29744491	CC	TT	TT	INTERGENIC		
SNP_54198_A_29744514	NC_021166.1	Ca_Kabuli_Chr07	29744514	CC	TT	TT	INTERGENIC		
SNP_54200_A_29755554	NC_021166.1	Ca_Kabuli_Chr07	29755554	GG	CC	CC	INTRON	101504968	protein transport protein SEC23
SNP_54202_A_29759152	NC_021166.1	Ca_Kabuli_Chr07	29759152	TT	AA	AA	INTRON	101504968	protein transport protein SEC23
SNP_54203_A_29759190	NC_021166.1	Ca_Kabuli_Chr07	29759190	CC	TT	TT	INTRON	101504968	protein transport protein SEC23
SNP_54204_A_29764386	NC_021166.1	Ca_Kabuli_Chr07	29764386	GG	AA	AA	INTERGENIC		
SNP_54205_A_29764426	NC_021166.1	Ca_Kabuli_Chr07	29764426	TT	CC	CC	INTERGENIC		
SNP_54206_A_29765042	NC_021166.1	Ca_Kabuli_Chr07	29765042	GG	TT	TT	INTERGENIC		
SNP_54207_A_29765043	NC_021166.1	Ca_Kabuli_Chr07	29765043	CC	TT	TT	INTERGENIC		
SNP_54208_A_29768722	NC_021166.1	Ca_Kabuli_Chr07	29768722	CC	TT	TT	DRR	101505607	serine carboxypeptidase-like 20
SNP_54209_A_29768727	NC_021166.1	Ca_Kabuli_Chr07	29768727	CC	TT	TT	DRR	101505607	serine carboxypeptidase-like 20
SNP_54210_A_29769280	NC_021166.1	Ca_Kabuli_Chr07	29769280	AA	CC	CC	URR	101505280	linoleate 9S-lipoxygenase-like
SNP_54211_A_29770711	NC_021166.1	Ca_Kabuli_Chr07	29770711	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54213_A_29772987	NC_021166.1	Ca_Kabuli_Chr07	29772987	AA	TT	TT	INTERGENIC		
SNP_54215_A_29775505	NC_021166.1	Ca_Kabuli_Chr07	29775505	AA	GG	GG	URR	101505607	serine carboxypeptidase-like 20
SNP_54216_A_29775934	NC_021166.1	Ca_Kabuli_Chr07	29775934	TT	AA	AA	URR	101505607	serine carboxypeptidase-like 20
SNP_54217_A_29775948	NC_021166.1	Ca_Kabuli_Chr07	29775948	CC	TT	TT	URR	101505607	serine carboxypeptidase-like 20
SNP_54218_A_29775971	NC_021166.1	Ca_Kabuli_Chr07	29775971	TT	AA	AA	URR	101505607	serine carboxypeptidase-like 20
SNP_54219_A_29775999	NC_021166.1	Ca_Kabuli_Chr07	29775999	GG	AA	AA	URR	101505607	serine carboxypeptidase-like 20
SNP_54220_A_29776003	NC_021166.1	Ca_Kabuli_Chr07	29776003	GG	TT	TT	URR	101505607	serine carboxypeptidase-like 20
SNP_54221_A_29776023	NC_021166.1	Ca_Kabuli_Chr07	29776023	CC	TT	TT	URR	101505607	serine carboxypeptidase-like 20
SNP_54222_A_29776190	NC_021166.1	Ca_Kabuli_Chr07	29776190	TT	CC	CC	URR	101505607	serine carboxypeptidase-like 20
SNP_54223_A_29776201	NC_021166.1	Ca_Kabuli_Chr07	29776201	AA	GG	GG	URR	101505607	serine carboxypeptidase-like 20
SNP_54224_A_29777426	NC_021166.1	Ca_Kabuli_Chr07	29777426	AA	GG	GG	INTERGENIC		
SNP_54225_A_29777428	NC_021166.1	Ca_Kabuli_Chr07	29777428	CC	AA	AA	INTERGENIC		
SNP_54226_A_29779037	NC_021166.1	Ca_Kabuli_Chr07	29779037	AA	CC	CC	INTERGENIC		
SNP_54227_A_29779371	NC_021166.1	Ca_Kabuli_Chr07	29779371	AA	GG	GG	INTERGENIC		
SNP_54228_A_29780087	NC_021166.1	Ca_Kabuli_Chr07	29780087	CC	TT	TT	INTERGENIC		
SNP_54229_A_29781428	NC_021166.1	Ca_Kabuli_Chr07	29781428	CC	TT	TT	INTERGENIC		
SNP_54230_A_29781727	NC_021166.1	Ca_Kabuli_Chr07	29781727	TT	AA	AA	INTERGENIC		
SNP_54231_A_29784006	NC_021166.1	Ca_Kabuli_Chr07	29784006	AA	CC	CC	INTERGENIC		
SNP_54232_A_29784620	NC_021166.1	Ca_Kabuli_Chr07	29784620	CC	TT	TT	INTERGENIC		
SNP_54233_A_29785066	NC_021166.1	Ca_Kabuli_Chr07	29785066	AA	GG	GG	INTERGENIC		
SNP_54235_A_29789306	NC_021166.1	Ca_Kabuli_Chr07	29789306	AA	GG	GG	INTERGENIC		
SNP_54236_A_29789601	NC_021166.1	Ca_Kabuli_Chr07	29789601	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54237_A_29790158	NC_021166.1	Ca_Kabuli_Chr07	29790158	AA	GG	GG	INTERGENIC		
SNP_54238_A_29790163	NC_021166.1	Ca_Kabuli_Chr07	29790163	GG	CC	CC	INTERGENIC		
SNP_54239_A_29794396	NC_021166.1	Ca_Kabuli_Chr07	29794396	AA	TT	TT	INTRON	101505932	gamma-tubulin complex component 2
SNP_54241_A_29803184	NC_021166.1	Ca_Kabuli_Chr07	29803184	GG	AA	AA	URR	101505932	gamma-tubulin complex component 2
SNP_54242_A_29803257	NC_021166.1	Ca_Kabuli_Chr07	29803257	TT	CC	CC	URR	101505932	gamma-tubulin complex component 2
SNP_54243_A_29803275	NC_021166.1	Ca_Kabuli_Chr07	29803275	TT	AA	AA	URR	101505932	gamma-tubulin complex component 2
SNP_54244_A_29803608	NC_021166.1	Ca_Kabuli_Chr07	29803608	AA	TT	TT	URR	101505932	gamma-tubulin complex component 2
SNP_54245_A_29804395	NC_021166.1	Ca_Kabuli_Chr07	29804395	AA	TT	TT	INTERGENIC		
SNP_54247_A_29805238	NC_021166.1	Ca_Kabuli_Chr07	29805238	GG	CC	CC	INTERGENIC		
SNP_54248_A_29805239	NC_021166.1	Ca_Kabuli_Chr07	29805239	TT	GG	GG	INTERGENIC		
SNP_54249_A_29805270	NC_021166.1	Ca_Kabuli_Chr07	29805270	AA	TT	TT	INTERGENIC		
SNP_54251_A_29809219	NC_021166.1	Ca_Kabuli_Chr07	29809219	TT	CC	CC	URR	101506245	fimbrin-2-like
SNP_54252_A_29809240	NC_021166.1	Ca_Kabuli_Chr07	29809240	GG	CC	CC	URR	101506245	fimbrin-2-like
SNP_54253_A_29809254	NC_021166.1	Ca_Kabuli_Chr07	29809254	TT	CC	CC	URR	101506245	fimbrin-2-like
SNP_54254_A_29810687	NC_021166.1	Ca_Kabuli_Chr07	29810687	GG	AA	AA	INTERGENIC		
SNP_54255_A_29812186	NC_021166.1	Ca_Kabuli_Chr07	29812186	GG	AA	AA	DRR	101506574	uncharacterized LOC101506574
SNP_54256_A_29812207	NC_021166.1	Ca_Kabuli_Chr07	29812207	GG	AA	AA	DRR	101506574	uncharacterized LOC101506574
SNP_54258_A_29816808	NC_021166.1	Ca_Kabuli_Chr07	29816808	TT	AA	AA	DRR	101506911	uncharacterized LOC101506911
SNP_54259_A_29818875	NC_021166.1	Ca_Kabuli_Chr07	29818875	GG	AA	AA	INTRON	101506911	uncharacterized LOC101506911
SNP_54260_A_29818879	NC_021166.1	Ca_Kabuli_Chr07	29818879	TT	CC	CC	INTRON	101506911	uncharacterized LOC101506911
SNP_54261_A_29818890	NC_021166.1	Ca_Kabuli_Chr07	29818890	AA	GG	GG	INTRON	101506911	uncharacterized LOC101506911
SNP_54262_A_29822605	NC_021166.1	Ca_Kabuli_Chr07	29822605	GG	AA	AA	URR	101506911	uncharacterized LOC101506911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54263_A_29822839	NC_021166.1	Ca_Kabuli_Chr07	29822839	TT	CC	CC	URR	101506911	uncharacterized LOC101506911
SNP_54264_A_29822862	NC_021166.1	Ca_Kabuli_Chr07	29822862	CC	AA	AA	URR	101506911	uncharacterized LOC101506911
SNP_54265_A_29822906	NC_021166.1	Ca_Kabuli_Chr07	29822906	TT	AA	AA	URR	101506911	uncharacterized LOC101506911
SNP_54266_A_29822913	NC_021166.1	Ca_Kabuli_Chr07	29822913	AA	CC	CC	URR	101506911	uncharacterized LOC101506911
SNP_54267_A_29822951	NC_021166.1	Ca_Kabuli_Chr07	29822951	GG	AA	AA	URR	101506911	uncharacterized LOC101506911
SNP_54268_A_29836635	NC_021166.1	Ca_Kabuli_Chr07	29836635	TT	CC	CC	URR	101508285	EPIDERMAL PATTERNING FACTOR-like protein 9
SNP_54269_A_29839580	NC_021166.1	Ca_Kabuli_Chr07	29839580	TT	AA	AA	INTERGENIC		
SNP_54270_A_29839635	NC_021166.1	Ca_Kabuli_Chr07	29839635	CC	AA	AA	INTERGENIC		
SNP_54271_A_29840055	NC_021166.1	Ca_Kabuli_Chr07	29840055	TT	AA	AA	INTERGENIC		
SNP_54272_A_29841302	NC_021166.1	Ca_Kabuli_Chr07	29841302	AA	GG	GG	DRR	101508920	uncharacterized LOC101508920
SNP_54273_A_29842271	NC_021166.1	Ca_Kabuli_Chr07	29842271	AA	TT	TT	URR	101508605	asparagine-tRNA ligase, cytoplasmic 2
SNP_54274_A_29843267	NC_021166.1	Ca_Kabuli_Chr07	29843267	GG	AA	AA	INTRON	101508920	uncharacterized LOC101508920
SNP_54275_A_29843268	NC_021166.1	Ca_Kabuli_Chr07	29843268	TT	AA	AA	INTRON	101508920	uncharacterized LOC101508920
SNP_54277_A_29849679	NC_021166.1	Ca_Kabuli_Chr07	29849679	AA	CC	CC	INTRON	101508920	uncharacterized LOC101508920
SNP_54278_A_29849850	NC_021166.1	Ca_Kabuli_Chr07	29849850	CC	AA	AA	INTRON	101508920	uncharacterized LOC101508920
SNP_54279_A_29851245	NC_021166.1	Ca_Kabuli_Chr07	29851245	CC	TT	TT	INTRON	101508920	uncharacterized LOC101508920
SNP_54280_A_29852531	NC_021166.1	Ca_Kabuli_Chr07	29852531	TT	CC	CC	URR	101508920	uncharacterized LOC101508920
SNP_54282_A_29854099	NC_021166.1	Ca_Kabuli_Chr07	29854099	GG	CC	CC	URR	101508920	uncharacterized LOC101508920
SNP_54283_A_29854818	NC_021166.1	Ca_Kabuli_Chr07	29854818	GG	AA	AA	INTERGENIC		
SNP_54285_A_29856416	NC_021166.1	Ca_Kabuli_Chr07	29856416	GG	AA	AA	DRR	101509464	auxin-induced in root cultures protein 12
SNP_54286_A_29856440	NC_021166.1	Ca_Kabuli_Chr07	29856440	GG	TT	TT	DRR	101509464	auxin-induced in root cultures protein 12
SNP_54287_A_29856446	NC_021166.1	Ca_Kabuli_Chr07	29856446	AA	TT	TT	DRR	101509464	auxin-induced in root cultures protein 12

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54288_A_29856479	NC_021166.1	Ca_Kabuli_Chr07	29856479	TT	GG	GG	DRR	101509464	auxin-induced in root cultures protein 12
SNP_54289_A_29859890	NC_021166.1	Ca_Kabuli_Chr07	29859890	GG	AA	AA	URR	101509464	auxin-induced in root cultures protein 12
SNP_54290_A_29863314	NC_021166.1	Ca_Kabuli_Chr07	29863314	AA	CC	CC	INTERGENIC		
SNP_54291_A_29863317	NC_021166.1	Ca_Kabuli_Chr07	29863317	CC	TT	TT	INTERGENIC		
SNP_54292_A_29863322	NC_021166.1	Ca_Kabuli_Chr07	29863322	GG	CC	CC	INTERGENIC		
SNP_54293_A_29863907	NC_021166.1	Ca_Kabuli_Chr07	29863907	CC	GG	GG	INTERGENIC		
SNP_54295_A_29865696	NC_021166.1	Ca_Kabuli_Chr07	29865696	TT	AA	AA	INTERGENIC		
SNP_54296_A_29866468	NC_021166.1	Ca_Kabuli_Chr07	29866468	TT	CC	CC	INTERGENIC		
SNP_54297_A_29866469	NC_021166.1	Ca_Kabuli_Chr07	29866469	AA	TT	TT	INTERGENIC		
SNP_54298_A_29866771	NC_021166.1	Ca_Kabuli_Chr07	29866771	AA	GG	GG	INTERGENIC		
SNP_54300_A_29866889	NC_021166.1	Ca_Kabuli_Chr07	29866889	AA	TT	TT	INTERGENIC		
SNP_54301_A_29867927	NC_021166.1	Ca_Kabuli_Chr07	29867927	CC	TT	TT	DRR	101509786	serine/threonine-protein kinase OX11-like
SNP_54302_A_29879231	NC_021166.1	Ca_Kabuli_Chr07	29879231	TT	CC	CC	INTERGENIC		
SNP_54303_A_29882523	NC_021166.1	Ca_Kabuli_Chr07	29882523	AA	GG	GG	INTRON	101510105	E3 ubiquitin-protein ligase CHIP
SNP_54304_A_29890778	NC_021166.1	Ca_Kabuli_Chr07	29890778	GG	AA	AA	INTERGENIC		
SNP_54305_A_29895112	NC_021166.1	Ca_Kabuli_Chr07	29895112	CC	TT	TT	DRR	101502809	Unknown function
SNP_54306_A_29895121	NC_021166.1	Ca_Kabuli_Chr07	29895121	TT	AA	AA	DRR	101502809	Unknown function
SNP_54307_A_29895142	NC_021166.1	Ca_Kabuli_Chr07	29895142	AA	GG	GG	DRR	101502809	Unknown function
SNP_54308_A_29895143	NC_021166.1	Ca_Kabuli_Chr07	29895143	GG	TT	TT	DRR	101502809	Unknown function
SNP_54309_A_29897444	NC_021166.1	Ca_Kabuli_Chr07	29897444	TT	CC	CC	URR	101502809	Unknown function
SNP_54310_A_29897460	NC_021166.1	Ca_Kabuli_Chr07	29897460	AA	GG	GG	URR	101502809	Unknown function
SNP_54311_A_29897465	NC_021166.1	Ca_Kabuli_Chr07	29897465	AA	GG	GG	URR	101502809	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54312_A_29904641	NC_021166.1	Ca_Kabuli_Chr07	29904641	AA	TT	TT	INTERGENIC		
SNP_54313_A_29905705	NC_021166.1	Ca_Kabuli_Chr07	29905705	GG	TT	TT	INTERGENIC		
SNP_54314_A_29905712	NC_021166.1	Ca_Kabuli_Chr07	29905712	TT	CC	CC	INTERGENIC		
SNP_54315_A_29906026	NC_021166.1	Ca_Kabuli_Chr07	29906026	GG	AA	AA	INTERGENIC		
SNP_54316_A_29906077	NC_021166.1	Ca_Kabuli_Chr07	29906077	TT	CC	CC	INTERGENIC		
SNP_54317_A_29906520	NC_021166.1	Ca_Kabuli_Chr07	29906520	GG	AA	AA	INTERGENIC		
SNP_54318_A_29921396	NC_021166.1	Ca_Kabuli_Chr07	29921396	TT	CC	CC	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54319_A_29921474	NC_021166.1	Ca_Kabuli_Chr07	29921474	AA	CC	CC	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54320_A_29921496	NC_021166.1	Ca_Kabuli_Chr07	29921496	AA	GG	GG	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54321_A_29921786	NC_021166.1	Ca_Kabuli_Chr07	29921786	GG	TT	TT	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54322_A_29922701	NC_021166.1	Ca_Kabuli_Chr07	29922701	AA	GG	GG	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54323_A_29922734	NC_021166.1	Ca_Kabuli_Chr07	29922734	AA	GG	GG	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54324_A_29922735	NC_021166.1	Ca_Kabuli_Chr07	29922735	GG	AA	AA	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54325_A_29922745	NC_021166.1	Ca_Kabuli_Chr07	29922745	GG	TT	TT	NON_SYNONYMOUS_CODING	101503793	putative disease resistance protein RGA3
SNP_54326_A_29923370	NC_021166.1	Ca_Kabuli_Chr07	29923370	AA	GG	GG	URR	101503793	putative disease resistance protein RGA3
SNP_54327_A_29923429	NC_021166.1	Ca_Kabuli_Chr07	29923429	TT	CC	CC	URR	101503793	putative disease resistance protein RGA3
SNP_54328_A_29923457	NC_021166.1	Ca_Kabuli_Chr07	29923457	GG	AA	AA	URR	101503793	putative disease resistance protein RGA3
SNP_54329_A_29929668	NC_021166.1	Ca_Kabuli_Chr07	29929668	GG	AA	AA	URR	101511080	disease resistance protein RGA2-like
SNP_54330_A_29929745	NC_021166.1	Ca_Kabuli_Chr07	29929745	CC	AA	AA	URR	101511080	disease resistance protein RGA2-like
SNP_54331_A_29935347	NC_021166.1	Ca_Kabuli_Chr07	29935347	AA	TT	TT	INTERGENIC		
SNP_54332_A_29937536	NC_021166.1	Ca_Kabuli_Chr07	29937536	AA	TT	TT	INTERGENIC		
SNP_54333_A_29939987	NC_021166.1	Ca_Kabuli_Chr07	29939987	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54334_A_29939996	NC_021166.1	Ca_Kabuli_Chr07	29939996	AA	GG	GG	INTERGENIC		
SNP_54335_A_29940031	NC_021166.1	Ca_Kabuli_Chr07	29940031	AA	GG	GG	INTERGENIC		
SNP_54336_A_29940032	NC_021166.1	Ca_Kabuli_Chr07	29940032	AA	GG	GG	INTERGENIC		
SNP_54337_A_29940040	NC_021166.1	Ca_Kabuli_Chr07	29940040	GG	AA	AA	INTERGENIC		
SNP_54338_A_29940053	NC_021166.1	Ca_Kabuli_Chr07	29940053	GG	TT	TT	INTERGENIC		
SNP_54339_A_29946693	NC_021166.1	Ca_Kabuli_Chr07	29946693	TT	CC	CC	INTERGENIC		
SNP_54340_A_29947080	NC_021166.1	Ca_Kabuli_Chr07	29947080	AA	GG	GG	INTERGENIC		
SNP_54341_A_29949477	NC_021166.1	Ca_Kabuli_Chr07	29949477	CC	TT	TT	INTERGENIC		
SNP_54342_A_29949485	NC_021166.1	Ca_Kabuli_Chr07	29949485	TT	GG	GG	INTERGENIC		
SNP_54343_A_29949488	NC_021166.1	Ca_Kabuli_Chr07	29949488	GG	AA	AA	INTERGENIC		
SNP_54344_A_29950011	NC_021166.1	Ca_Kabuli_Chr07	29950011	GG	AA	AA	INTERGENIC		
SNP_54345_A_29950422	NC_021166.1	Ca_Kabuli_Chr07	29950422	TT	CC	CC	INTERGENIC		
SNP_54346_A_29950438	NC_021166.1	Ca_Kabuli_Chr07	29950438	AA	GG	GG	INTERGENIC		
SNP_54347_A_29950533	NC_021166.1	Ca_Kabuli_Chr07	29950533	TT	GG	GG	INTERGENIC		
SNP_54348_A_29950792	NC_021166.1	Ca_Kabuli_Chr07	29950792	GG	CC	CC	INTERGENIC		
SNP_54349_A_29952849	NC_021166.1	Ca_Kabuli_Chr07	29952849	CC	TT	TT	INTERGENIC		
SNP_54350_A_29953355	NC_021166.1	Ca_Kabuli_Chr07	29953355	TT	CC	CC	INTERGENIC		
SNP_54351_A_29962024	NC_021166.1	Ca_Kabuli_Chr07	29962024	GG	AA	AA	DRR	101511388	TMV resistance protein N-like
SNP_54353_A_29969311	NC_021166.1	Ca_Kabuli_Chr07	29969311	AA	TT	TT	DRR	101511718	TMV resistance protein N-like
SNP_54356_A_29969772	NC_021166.1	Ca_Kabuli_Chr07	29969772	CC	AA	AA	URR	101511388	TMV resistance protein N-like
SNP_54357_A_29972323	NC_021166.1	Ca_Kabuli_Chr07	29972323	GG	AA	AA	SYNONYMOUS_CODING	101511718	TMV resistance protein N-like
SNP_54359_A_29972972	NC_021166.1	Ca_Kabuli_Chr07	29972972	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54360_A_29974587	NC_021166.1	Ca_Kabuli_Chr07	29974587	GG	AA	AA	INTERGENIC		
SNP_54361_A_29974602	NC_021166.1	Ca_Kabuli_Chr07	29974602	TT	CC	CC	INTERGENIC		
SNP_54362_A_29976199	NC_021166.1	Ca_Kabuli_Chr07	29976199	TT	GG	GG	URR	101511718	TMV resistance protein N-like
SNP_54363_A_29976251	NC_021166.1	Ca_Kabuli_Chr07	29976251	GG	TT	TT	URR	101511718	TMV resistance protein N-like
SNP_54364_A_29976295	NC_021166.1	Ca_Kabuli_Chr07	29976295	AA	GG	GG	URR	101511718	TMV resistance protein N-like
SNP_54366_A_29976476	NC_021166.1	Ca_Kabuli_Chr07	29976476	GG	AA	AA	URR	101511718	TMV resistance protein N-like
SNP_54367_A_29976528	NC_021166.1	Ca_Kabuli_Chr07	29976528	TT	CC	CC	URR	101511718	TMV resistance protein N-like
SNP_54368_A_29976535	NC_021166.1	Ca_Kabuli_Chr07	29976535	TT	AA	AA	URR	101511718	TMV resistance protein N-like
SNP_54369_A_29976588	NC_021166.1	Ca_Kabuli_Chr07	29976588	GG	AA	AA	URR	101511718	TMV resistance protein N-like
SNP_54370_A_29976762	NC_021166.1	Ca_Kabuli_Chr07	29976762	GG	TT	TT	URR	101511718	TMV resistance protein N-like
SNP_54371_A_29976950	NC_021166.1	Ca_Kabuli_Chr07	29976950	AA	GG	GG	DRR	101512780	uncharacterized LOC101512780
SNP_54372_A_29977151	NC_021166.1	Ca_Kabuli_Chr07	29977151	GG	AA	AA	DRR	101512780	uncharacterized LOC101512780
SNP_54373_A_29977440	NC_021166.1	Ca_Kabuli_Chr07	29977440	GG	AA	AA	DRR	101512780	uncharacterized LOC101512780
SNP_54374_A_29978949	NC_021166.1	Ca_Kabuli_Chr07	29978949	CC	TT	TT	INTERGENIC		
SNP_54377_A_29979949	NC_021166.1	Ca_Kabuli_Chr07	29979949	TT	CC	CC	URR	101512780	uncharacterized LOC101512780
SNP_54378_A_29980055	NC_021166.1	Ca_Kabuli_Chr07	29980055	TT	GG	GG	URR	101512780	uncharacterized LOC101512780
SNP_54379_A_29980585	NC_021166.1	Ca_Kabuli_Chr07	29980585	TT	AA	AA	URR	101512780	uncharacterized LOC101512780
SNP_54380_A_29980662	NC_021166.1	Ca_Kabuli_Chr07	29980662	GG	AA	AA	URR	101512780	uncharacterized LOC101512780
SNP_54382_A_29980866	NC_021166.1	Ca_Kabuli_Chr07	29980866	CC	AA	AA	URR	101512780	uncharacterized LOC101512780
SNP_54384_A_29980948	NC_021166.1	Ca_Kabuli_Chr07	29980948	AA	CC	CC	URR	101512780	uncharacterized LOC101512780
SNP_54385_A_29981173	NC_021166.1	Ca_Kabuli_Chr07	29981173	CC	TT	TT	URR	101512780	uncharacterized LOC101512780
SNP_54386_A_29981590	NC_021166.1	Ca_Kabuli_Chr07	29981590	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54387_A_29981616	NC_021166.1	Ca_Kabuli_Chr07	29981616	TT	AA	AA	INTERGENIC		
SNP_54389_A_29982462	NC_021166.1	Ca_Kabuli_Chr07	29982462	AA	TT	TT	INTERGENIC		
SNP_54391_A_29985751	NC_021166.1	Ca_Kabuli_Chr07	29985751	CC	TT	TT	URR	101513106	uncharacterized LOC101513106
SNP_54392_A_29985778	NC_021166.1	Ca_Kabuli_Chr07	29985778	TT	CC	CC	URR	101513106	uncharacterized LOC101513106
SNP_54393_A_29986095	NC_021166.1	Ca_Kabuli_Chr07	29986095	GG	AA	AA	URR	101513106	uncharacterized LOC101513106
SNP_54395_A_29986283	NC_021166.1	Ca_Kabuli_Chr07	29986283	CC	TT	TT	URR	101513106	uncharacterized LOC101513106
SNP_54396_A_29986313	NC_021166.1	Ca_Kabuli_Chr07	29986313	CC	TT	TT	URR	101513106	uncharacterized LOC101513106
SNP_54397_A_29987886	NC_021166.1	Ca_Kabuli_Chr07	29987886	AA	TT	TT	INTERGENIC		
SNP_54398_A_29988455	NC_021166.1	Ca_Kabuli_Chr07	29988455	GG	AA	AA	INTERGENIC		
SNP_54399_A_29988508	NC_021166.1	Ca_Kabuli_Chr07	29988508	CC	AA	AA	INTERGENIC		
SNP_54400_A_29989965	NC_021166.1	Ca_Kabuli_Chr07	29989965	AA	GG	GG	INTERGENIC		
SNP_54401_A_29990839	NC_021166.1	Ca_Kabuli_Chr07	29990839	AA	GG	GG	INTERGENIC		
SNP_54402_A_29990881	NC_021166.1	Ca_Kabuli_Chr07	29990881	AA	GG	GG	INTERGENIC		
SNP_54403_A_29992871	NC_021166.1	Ca_Kabuli_Chr07	29992871	CC	TT	TT	INTERGENIC		
SNP_54404_A_29993628	NC_021166.1	Ca_Kabuli_Chr07	29993628	AA	GG	GG	INTERGENIC		
SNP_54406_A_29994652	NC_021166.1	Ca_Kabuli_Chr07	29994652	TT	CC	CC	INTERGENIC		
SNP_54407_A_29995436	NC_021166.1	Ca_Kabuli_Chr07	29995436	CC	AA	AA	INTERGENIC		
SNP_54408_A_29995760	NC_021166.1	Ca_Kabuli_Chr07	29995760	TT	CC	CC	INTERGENIC		
SNP_54409_A_29996629	NC_021166.1	Ca_Kabuli_Chr07	29996629	AA	GG	GG	INTERGENIC		
SNP_54410_A_29996899	NC_021166.1	Ca_Kabuli_Chr07	29996899	AA	TT	TT	INTERGENIC		
SNP_54411_A_29996906	NC_021166.1	Ca_Kabuli_Chr07	29996906	AA	GG	GG	INTERGENIC		
SNP_54412_A_29996908	NC_021166.1	Ca_Kabuli_Chr07	29996908	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54413_A_29996914	NC_021166.1	Ca_Kabuli_Chr07	29996914	CC	TT	TT	INTERGENIC		
SNP_54415_A_30002986	NC_021166.1	Ca_Kabuli_Chr07	30002986	AA	CC	CC	INTERGENIC		
SNP_54416_A_30003027	NC_021166.1	Ca_Kabuli_Chr07	30003027	TT	AA	AA	INTERGENIC		
SNP_54417_A_30003645	NC_021166.1	Ca_Kabuli_Chr07	30003645	AA	GG	GG	INTERGENIC		
SNP_54418_A_30005301	NC_021166.1	Ca_Kabuli_Chr07	30005301	TT	CC	CC	INTERGENIC		
SNP_54421_A_30008163	NC_021166.1	Ca_Kabuli_Chr07	30008163	GG	CC	CC	NON_SYNONYMOUS_CODING	101513433	transcription factor bHLH62-like
SNP_54422_A_30008197	NC_021166.1	Ca_Kabuli_Chr07	30008197	TT	CC	CC	INTRON	101513433	transcription factor bHLH62-like
SNP_54423_A_30008205	NC_021166.1	Ca_Kabuli_Chr07	30008205	AA	GG	GG	INTRON	101513433	transcription factor bHLH62-like
SNP_54424_A_30008206	NC_021166.1	Ca_Kabuli_Chr07	30008206	CC	TT	TT	INTRON	101513433	transcription factor bHLH62-like
SNP_54425_A_30008207	NC_021166.1	Ca_Kabuli_Chr07	30008207	GG	AA	AA	INTRON	101513433	transcription factor bHLH62-like
SNP_54426_A_30008470	NC_021166.1	Ca_Kabuli_Chr07	30008470	GG	TT	TT	NON_SYNONYMOUS_CODING	101513433	transcription factor bHLH62-like
SNP_54427_A_30008868	NC_021166.1	Ca_Kabuli_Chr07	30008868	GG	AA	AA	INTRON	101513433	transcription factor bHLH62-like
SNP_54428_A_30008874	NC_021166.1	Ca_Kabuli_Chr07	30008874	CC	GG	GG	INTRON	101513433	transcription factor bHLH62-like
SNP_54429_A_30008919	NC_021166.1	Ca_Kabuli_Chr07	30008919	GG	AA	AA	INTRON	101513433	transcription factor bHLH62-like
SNP_54432_A_30009231	NC_021166.1	Ca_Kabuli_Chr07	30009231	GG	CC	CC	INTRON	101513433	transcription factor bHLH62-like
SNP_54434_A_30009545	NC_021166.1	Ca_Kabuli_Chr07	30009545	TT	AA	AA	INTRON	101513433	transcription factor bHLH62-like
SNP_54435_A_30011061	NC_021166.1	Ca_Kabuli_Chr07	30011061	CC	TT	TT	URR	101513433	transcription factor bHLH62-like
SNP_54436_A_30011145	NC_021166.1	Ca_Kabuli_Chr07	30011145	CC	GG	GG	URR	101513433	transcription factor bHLH62-like
SNP_54437_A_30011362	NC_021166.1	Ca_Kabuli_Chr07	30011362	AA	GG	GG	URR	101513433	transcription factor bHLH62-like
SNP_54438_A_30011455	NC_021166.1	Ca_Kabuli_Chr07	30011455	TT	AA	AA	URR	101513433	transcription factor bHLH62-like
SNP_54439_A_30011478	NC_021166.1	Ca_Kabuli_Chr07	30011478	CC	TT	TT	URR	101513433	transcription factor bHLH62-like
SNP_54440_A_30011487	NC_021166.1	Ca_Kabuli_Chr07	30011487	GG	TT	TT	URR	101513433	transcription factor bHLH62-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54441_A_30011534	NC_021166.1	Ca_Kabuli_Chr07	30011534	TT	GG	GG	URR	101513433	transcription factor bHLH62-like
SNP_54442_A_30013731	NC_021166.1	Ca_Kabuli_Chr07	30013731	GG	CC	CC	INTERGENIC		
SNP_54443_A_30015306	NC_021166.1	Ca_Kabuli_Chr07	30015306	TT	AA	AA	INTERGENIC		
SNP_54444_A_30015309	NC_021166.1	Ca_Kabuli_Chr07	30015309	TT	CC	CC	INTERGENIC		
SNP_54446_A_30016441	NC_021166.1	Ca_Kabuli_Chr07	30016441	AA	CC	CC	INTERGENIC		
SNP_54447_A_30016443	NC_021166.1	Ca_Kabuli_Chr07	30016443	GG	AA	AA	INTERGENIC		
SNP_54448_A_30016445	NC_021166.1	Ca_Kabuli_Chr07	30016445	GG	TT	TT	INTERGENIC		
SNP_54449_A_30016477	NC_021166.1	Ca_Kabuli_Chr07	30016477	CC	GG	GG	INTERGENIC		
SNP_54450_A_30016739	NC_021166.1	Ca_Kabuli_Chr07	30016739	TT	CC	CC	INTERGENIC		
SNP_54451_A_30017694	NC_021166.1	Ca_Kabuli_Chr07	30017694	AA	GG	GG	INTERGENIC		
SNP_54452_A_30017709	NC_021166.1	Ca_Kabuli_Chr07	30017709	TT	CC	CC	INTERGENIC		
SNP_54453_A_30021102	NC_021166.1	Ca_Kabuli_Chr07	30021102	TT	CC	CC	DRR	101513981	probable xyloglucan glycosyltransferase 6
SNP_54454_A_30024721	NC_021166.1	Ca_Kabuli_Chr07	30024721	GG	AA	AA	INTERGENIC		
SNP_54455_A_30024853	NC_021166.1	Ca_Kabuli_Chr07	30024853	GG	AA	AA	INTERGENIC		
SNP_54456_A_30024945	NC_021166.1	Ca_Kabuli_Chr07	30024945	GG	AA	AA	INTERGENIC		
SNP_54457_A_30025039	NC_021166.1	Ca_Kabuli_Chr07	30025039	TT	AA	AA	INTERGENIC		
SNP_54459_A_30028518	NC_021166.1	Ca_Kabuli_Chr07	30028518	CC	TT	TT	DRR	101514314	40S ribosomal protein S8
SNP_54460_A_30028731	NC_021166.1	Ca_Kabuli_Chr07	30028731	TT	CC	CC	DRR	101514314	40S ribosomal protein S8
SNP_54461_A_30030933	NC_021166.1	Ca_Kabuli_Chr07	30030933	AA	TT	TT	INTERGENIC		
SNP_54462_A_30030974	NC_021166.1	Ca_Kabuli_Chr07	30030974	AA	CC	CC	INTERGENIC		
SNP_54463_A_30034352	NC_021166.1	Ca_Kabuli_Chr07	30034352	GG	TT	TT	INTERGENIC		
SNP_54464_A_30037176	NC_021166.1	Ca_Kabuli_Chr07	30037176	GG	AA	AA	URR	101514635	class II metallothionein-like protein 1A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54465_A_30038184	NC_021166.1	Ca_Kabuli_Chr07	30038184	CC		TT	TT	URR	101514635	class II metallothionein-like protein 1A
SNP_54466_A_30038216	NC_021166.1	Ca_Kabuli_Chr07	30038216	CC		TT	TT	URR	101514635	class II metallothionein-like protein 1A
SNP_54468_A_30041719	NC_021166.1	Ca_Kabuli_Chr07	30041719	AA		TT	TT	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54469_A_30041810	NC_021166.1	Ca_Kabuli_Chr07	30041810	TT		GG	GG	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54470_A_30042001	NC_021166.1	Ca_Kabuli_Chr07	30042001	TT		CC	CC	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54471_A_30042012	NC_021166.1	Ca_Kabuli_Chr07	30042012	AA		TT	TT	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54472_A_30042121	NC_021166.1	Ca_Kabuli_Chr07	30042121	TT		CC	CC	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54473_A_30042133	NC_021166.1	Ca_Kabuli_Chr07	30042133	AA		GG	GG	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54474_A_30042150	NC_021166.1	Ca_Kabuli_Chr07	30042150	TT		CC	CC	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54475_A_30042445	NC_021166.1	Ca_Kabuli_Chr07	30042445	GG		AA	AA	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54477_A_30043363	NC_021166.1	Ca_Kabuli_Chr07	30043363	CC		AA	AA	URR	101514965	peptidyl-prolyl cis-trans isomerase FKBP62-like
SNP_54478_A_30044757	NC_021166.1	Ca_Kabuli_Chr07	30044757	GG		AA	AA	INTERGENIC		
SNP_54479_A_30045667	NC_021166.1	Ca_Kabuli_Chr07	30045667	TT		CC	CC	INTERGENIC		
SNP_54480_A_30045687	NC_021166.1	Ca_Kabuli_Chr07	30045687	CC		TT	TT	INTERGENIC		
SNP_54481_A_30045713	NC_021166.1	Ca_Kabuli_Chr07	30045713	TT		CC	CC	INTERGENIC		
SNP_54482_A_30046469	NC_021166.1	Ca_Kabuli_Chr07	30046469	AA		GG	GG	INTERGENIC		
SNP_54483_A_30048428	NC_021166.1	Ca_Kabuli_Chr07	30048428	CC		TT	TT	DRR	101515288	FK506-binding protein 2
SNP_54485_A_30048717	NC_021166.1	Ca_Kabuli_Chr07	30048717	TT		CC	CC	DRR	101515288	FK506-binding protein 2
SNP_54486_A_30050139	NC_021166.1	Ca_Kabuli_Chr07	30050139	CC		GG	GG	INTRON	101515288	FK506-binding protein 2
SNP_54487_A_30050169	NC_021166.1	Ca_Kabuli_Chr07	30050169	TT		CC	CC	INTRON	101515288	FK506-binding protein 2
SNP_54489_A_30053170	NC_021166.1	Ca_Kabuli_Chr07	30053170	TT		AA	AA	DRR	101515614	probable copper-transporting ATPase HMA5
SNP_54490_A_30053188	NC_021166.1	Ca_Kabuli_Chr07	30053188	TT		AA	AA	DRR	101515614	probable copper-transporting ATPase HMA5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54492_A_30059136	NC_021166.1	Ca_Kabuli_Chr07	30059136	TT	AA	AA	INTRON	101515614	probable copper-transporting ATPase HMA5
SNP_54493_A_30059142	NC_021166.1	Ca_Kabuli_Chr07	30059142	TT	GG	GG	INTRON	101515614	probable copper-transporting ATPase HMA5
SNP_54494_A_30063550	NC_021166.1	Ca_Kabuli_Chr07	30063550	AA	GG	GG	INTERGENIC		
SNP_54495_A_30067583	NC_021166.1	Ca_Kabuli_Chr07	30067583	CC	TT	TT	INTERGENIC		
SNP_54496_A_30069549	NC_021166.1	Ca_Kabuli_Chr07	30069549	AA	GG	GG	INTERGENIC		
SNP_54497_A_30069555	NC_021166.1	Ca_Kabuli_Chr07	30069555	AA	GG	GG	INTERGENIC		
SNP_54498_A_30069590	NC_021166.1	Ca_Kabuli_Chr07	30069590	AA	GG	GG	INTERGENIC		
SNP_54499_A_30070876	NC_021166.1	Ca_Kabuli_Chr07	30070876	AA	TT	TT	URR	101488370	mediator-associated protein 2-like
SNP_54500_A_30070880	NC_021166.1	Ca_Kabuli_Chr07	30070880	GG	TT	TT	URR	101488370	mediator-associated protein 2-like
SNP_54502_A_30073355	NC_021166.1	Ca_Kabuli_Chr07	30073355	GG	AA	AA	DRR	101488695	uncharacterized LOC101488695
SNP_54503_A_30073357	NC_021166.1	Ca_Kabuli_Chr07	30073357	TT	CC	CC	DRR	101488695	uncharacterized LOC101488695
SNP_54504_A_30073376	NC_021166.1	Ca_Kabuli_Chr07	30073376	TT	CC	CC	DRR	101488695	uncharacterized LOC101488695
SNP_54505_A_30073384	NC_021166.1	Ca_Kabuli_Chr07	30073384	CC	GG	GG	DRR	101488695	uncharacterized LOC101488695
SNP_54506_A_30073388	NC_021166.1	Ca_Kabuli_Chr07	30073388	CC	TT	TT	DRR	101488695	uncharacterized LOC101488695
SNP_54507_A_30073394	NC_021166.1	Ca_Kabuli_Chr07	30073394	GG	AA	AA	DRR	101488695	uncharacterized LOC101488695
SNP_54508_A_30073431	NC_021166.1	Ca_Kabuli_Chr07	30073431	CC	GG	GG	DRR	101488695	uncharacterized LOC101488695
SNP_54509_A_30073578	NC_021166.1	Ca_Kabuli_Chr07	30073578	AA	TT	TT	DRR	101488695	uncharacterized LOC101488695
SNP_54510_A_30073579	NC_021166.1	Ca_Kabuli_Chr07	30073579	AA	TT	TT	DRR	101488695	uncharacterized LOC101488695
SNP_54513_A_30074088	NC_021166.1	Ca_Kabuli_Chr07	30074088	CC	TT	TT	DRR	101488695	uncharacterized LOC101488695
SNP_54514_A_30074101	NC_021166.1	Ca_Kabuli_Chr07	30074101	AA	GG	GG	DRR	101488695	uncharacterized LOC101488695
SNP_54515_A_30074108	NC_021166.1	Ca_Kabuli_Chr07	30074108	GG	CC	CC	DRR	101488695	uncharacterized LOC101488695
SNP_54516_A_30075744	NC_021166.1	Ca_Kabuli_Chr07	30075744	TT	CC	CC	URR	101488695	uncharacterized LOC101488695

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome	(Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54517_A_30075753	NC_021166.1	Ca_Kabuli_Chr07	30075753	CC		TT	TT	URR	101488695	uncharacterized LOC101488695
SNP_54518_A_30075754	NC_021166.1	Ca_Kabuli_Chr07	30075754	GG		AA	AA	URR	101488695	uncharacterized LOC101488695
SNP_54519_A_30075809	NC_021166.1	Ca_Kabuli_Chr07	30075809	GG		AA	AA	URR	101488695	uncharacterized LOC101488695
SNP_54520_A_30075812	NC_021166.1	Ca_Kabuli_Chr07	30075812	CC		AA	AA	URR	101488695	uncharacterized LOC101488695
SNP_54521_A_30075823	NC_021166.1	Ca_Kabuli_Chr07	30075823	CC		GG	GG	URR	101488695	uncharacterized LOC101488695
SNP_54522_A_30079495	NC_021166.1	Ca_Kabuli_Chr07	30079495	GG		AA	AA	INTRON	101504747	factor of DNA methylation 1-like
SNP_54523_A_30081141	NC_021166.1	Ca_Kabuli_Chr07	30081141	GG		AA	AA	URR	101504747	factor of DNA methylation 1-like
SNP_54524_A_30082188	NC_021166.1	Ca_Kabuli_Chr07	30082188	TT		CC	CC	URR	101504747	factor of DNA methylation 1-like
SNP_54525_A_30082189	NC_021166.1	Ca_Kabuli_Chr07	30082189	AA		GG	GG	URR	101504747	factor of DNA methylation 1-like
SNP_54526_A_30082210	NC_021166.1	Ca_Kabuli_Chr07	30082210	CC		TT	TT	URR	101504747	factor of DNA methylation 1-like
SNP_54527_A_30082565	NC_021166.1	Ca_Kabuli_Chr07	30082565	AA		GG	GG	URR	101504747	factor of DNA methylation 1-like
SNP_54528_A_30082643	NC_021166.1	Ca_Kabuli_Chr07	30082643	CC		AA	AA	INTERGENIC		
SNP_54529_A_30082669	NC_021166.1	Ca_Kabuli_Chr07	30082669	GG		AA	AA	INTERGENIC		
SNP_54530_A_30082833	NC_021166.1	Ca_Kabuli_Chr07	30082833	TT		CC	CC	INTERGENIC		
SNP_54531_A_30082852	NC_021166.1	Ca_Kabuli_Chr07	30082852	CC		TT	TT	INTERGENIC		
SNP_54532_A_30087497	NC_021166.1	Ca_Kabuli_Chr07	30087497	TT		CC	CC	URR	101488917	uncharacterized LOC101488917
SNP_54533_A_30089487	NC_021166.1	Ca_Kabuli_Chr07	30089487	CC		AA	AA	INTERGENIC		
SNP_54534_A_30089676	NC_021166.1	Ca_Kabuli_Chr07	30089676	GG		AA	AA	INTERGENIC		
SNP_54535_A_30089704	NC_021166.1	Ca_Kabuli_Chr07	30089704	CC		TT	TT	INTERGENIC		
SNP_54536_A_30089706	NC_021166.1	Ca_Kabuli_Chr07	30089706	GG		AA	AA	INTERGENIC		
SNP_54537_A_30089741	NC_021166.1	Ca_Kabuli_Chr07	30089741	GG		AA	AA	INTERGENIC		
SNP_54538_A_30090849	NC_021166.1	Ca_Kabuli_Chr07	30090849	CC		GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54539_A_30090911	NC_021166.1	Ca_Kabuli_Chr07	30090911	GG	TT	TT	INTERGENIC		
SNP_54540_A_30090918	NC_021166.1	Ca_Kabuli_Chr07	30090918	TT	CC	CC	INTERGENIC		
SNP_54542_A_30091451	NC_021166.1	Ca_Kabuli_Chr07	30091451	AA	GG	GG	INTERGENIC		
SNP_54543_A_30092318	NC_021166.1	Ca_Kabuli_Chr07	30092318	TT	GG	GG	INTERGENIC		
SNP_54544_A_30092389	NC_021166.1	Ca_Kabuli_Chr07	30092389	GG	TT	TT	INTERGENIC		
SNP_54545_A_30096725	NC_021166.1	Ca_Kabuli_Chr07	30096725	AA	GG	GG	INTERGENIC		
SNP_54546_A_30096780	NC_021166.1	Ca_Kabuli_Chr07	30096780	AA	GG	GG	INTERGENIC		
SNP_54547_A_30096808	NC_021166.1	Ca_Kabuli_Chr07	30096808	GG	AA	AA	INTERGENIC		
SNP_54549_A_30098627	NC_021166.1	Ca_Kabuli_Chr07	30098627	TT	GG	GG	INTERGENIC		
SNP_54551_A_30100183	NC_021166.1	Ca_Kabuli_Chr07	30100183	CC	TT	TT	DRR	101489146	uncharacterized LOC101489146
SNP_54552_A_30101904	NC_021166.1	Ca_Kabuli_Chr07	30101904	CC	AA	AA	SYNONYMOUS_CODING	101489146	uncharacterized LOC101489146
SNP_54553_A_30101949	NC_021166.1	Ca_Kabuli_Chr07	30101949	AA	TT	TT	SYNONYMOUS_CODING	101489146	uncharacterized LOC101489146
SNP_54554_A_30105801	NC_021166.1	Ca_Kabuli_Chr07	30105801	CC	AA	AA	DRR	101489477	serine/threonine-protein kinase MHK
SNP_54555_A_30105805	NC_021166.1	Ca_Kabuli_Chr07	30105805	AA	GG	GG	DRR	101489477	serine/threonine-protein kinase MHK
SNP_54557_A_30107923	NC_021166.1	Ca_Kabuli_Chr07	30107923	GG	TT	TT	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54558_A_30112239	NC_021166.1	Ca_Kabuli_Chr07	30112239	GG	TT	TT	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54559_A_30112245	NC_021166.1	Ca_Kabuli_Chr07	30112245	AA	GG	GG	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54560_A_30112258	NC_021166.1	Ca_Kabuli_Chr07	30112258	CC	TT	TT	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54561_A_30113060	NC_021166.1	Ca_Kabuli_Chr07	30113060	CC	TT	TT	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54562_A_30113327	NC_021166.1	Ca_Kabuli_Chr07	30113327	TT	AA	AA	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54563_A_30113486	NC_021166.1	Ca_Kabuli_Chr07	30113486	TT	GG	GG	INTRON	101489477	serine/threonine-protein kinase MHK
SNP_54565_A_30130313	NC_021166.1	Ca_Kabuli_Chr07	30130313	GG	AA	AA	DRR	101490443	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54566_A_30131597	NC_021166.1	Ca_Kabuli_Chr07	30131597	TT	AA	AA	INTERGENIC		
SNP_54567_A_30133291	NC_021166.1	Ca_Kabuli_Chr07	30133291	CC	TT	TT	INTRON	101490762	1-deoxy-D-xylulose chloroplastic-like 5-phosphate reductoisomerase,
SNP_54568_A_30133498	NC_021166.1	Ca_Kabuli_Chr07	30133498	TT	CC	CC	INTRON	101490762	1-deoxy-D-xylulose chloroplastic-like 5-phosphate reductoisomerase,
SNP_54569_A_30133518	NC_021166.1	Ca_Kabuli_Chr07	30133518	TT	GG	GG	INTRON	101490762	1-deoxy-D-xylulose chloroplastic-like 5-phosphate reductoisomerase,
SNP_54570_A_30133537	NC_021166.1	Ca_Kabuli_Chr07	30133537	CC	AA	AA	INTRON	101490762	1-deoxy-D-xylulose chloroplastic-like 5-phosphate reductoisomerase,
SNP_54571_A_30133538	NC_021166.1	Ca_Kabuli_Chr07	30133538	AA	TT	TT	INTRON	101490762	1-deoxy-D-xylulose chloroplastic-like 5-phosphate reductoisomerase,
SNP_54574_A_30141000	NC_021166.1	Ca_Kabuli_Chr07	30141000	TT	AA	AA	INTERGENIC		
SNP_54575_A_30145989	NC_021166.1	Ca_Kabuli_Chr07	30145989	TT	AA	AA	INTERGENIC		
SNP_54576_A_30152632	NC_021166.1	Ca_Kabuli_Chr07	30152632	CC	AA	AA	URR	101491406	uncharacterized LOC101491406
SNP_54577_A_30154307	NC_021166.1	Ca_Kabuli_Chr07	30154307	AA	TT	TT	INTERGENIC		
SNP_54578_A_30154312	NC_021166.1	Ca_Kabuli_Chr07	30154312	TT	GG	GG	INTERGENIC		
SNP_54579_A_30154314	NC_021166.1	Ca_Kabuli_Chr07	30154314	GG	TT	TT	INTERGENIC		
SNP_54581_A_30156876	NC_021166.1	Ca_Kabuli_Chr07	30156876	TT	CC	CC	INTERGENIC		
SNP_54582_A_30157194	NC_021166.1	Ca_Kabuli_Chr07	30157194	TT	CC	CC	INTERGENIC		
SNP_54583_A_30157703	NC_021166.1	Ca_Kabuli_Chr07	30157703	TT	CC	CC	INTERGENIC		
SNP_54584_A_30157713	NC_021166.1	Ca_Kabuli_Chr07	30157713	TT	CC	CC	INTERGENIC		
SNP_54587_A_30159225	NC_021166.1	Ca_Kabuli_Chr07	30159225	GG	AA	AA	DRR	101505071	cytochrome P450 82C4-like
SNP_54588_A_30160843	NC_021166.1	Ca_Kabuli_Chr07	30160843	GG	AA	AA	INTRON	101505071	cytochrome P450 82C4-like
SNP_54589_A_30160844	NC_021166.1	Ca_Kabuli_Chr07	30160844	GG	AA	AA	INTRON	101505071	cytochrome P450 82C4-like
SNP_54590_A_30160947	NC_021166.1	Ca_Kabuli_Chr07	30160947	AA	GG	GG	INTRON	101505071	cytochrome P450 82C4-like
SNP_54591_A_30166177	NC_021166.1	Ca_Kabuli_Chr07	30166177	GG	AA	AA	DRR	101491722	putative ER lumen protein-retaining receptor C28H8.4
SNP_54593_A_30166203	NC_021166.1	Ca_Kabuli_Chr07	30166203	GG	AA	AA	DRR	101491722	putative ER lumen protein-retaining receptor C28H8.4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54594_A_30166290	NC_021166.1	Ca_Kabuli_Chr07	30166290	TT	CC	CC	DRR	101491722	putative ER lumen protein-retaining receptor C28H8.4
SNP_54595_A_30166357	NC_021166.1	Ca_Kabuli_Chr07	30166357	AA	TT	TT	DRR	101491722	putative ER lumen protein-retaining receptor C28H8.4
SNP_54596_A_30172743	NC_021166.1	Ca_Kabuli_Chr07	30172743	AA	GG	GG	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54597_A_30172786	NC_021166.1	Ca_Kabuli_Chr07	30172786	TT	AA	AA	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54598_A_30172983	NC_021166.1	Ca_Kabuli_Chr07	30172983	GG	TT	TT	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54599_A_30173185	NC_021166.1	Ca_Kabuli_Chr07	30173185	TT	CC	CC	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54600_A_30173186	NC_021166.1	Ca_Kabuli_Chr07	30173186	TT	CC	CC	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54602_A_30174426	NC_021166.1	Ca_Kabuli_Chr07	30174426	CC	TT	TT	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54603_A_30185289	NC_021166.1	Ca_Kabuli_Chr07	30185289	AA	CC	CC	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54604_A_30185293	NC_021166.1	Ca_Kabuli_Chr07	30185293	GG	AA	AA	INTRON	101492040	ER lumen protein-retaining receptor-like
SNP_54606_A_30192425	NC_021166.1	Ca_Kabuli_Chr07	30192425	TT	CC	CC	SYNONYMOUS_CODING	101505393	ER lumen protein-retaining receptor 1-like
SNP_54607_A_30192478	NC_021166.1	Ca_Kabuli_Chr07	30192478	CC	TT	TT	INTRON	101505393	ER lumen protein-retaining receptor 1-like
SNP_54609_A_30192692	NC_021166.1	Ca_Kabuli_Chr07	30192692	CC	TT	TT	INTRON	101505393	ER lumen protein-retaining receptor 1-like
SNP_54610_A_30193502	NC_021166.1	Ca_Kabuli_Chr07	30193502	CC	GG	GG	INTRON	101505393	ER lumen protein-retaining receptor 1-like
SNP_54611_A_30193541	NC_021166.1	Ca_Kabuli_Chr07	30193541	CC	AA	AA	INTRON	101505393	ER lumen protein-retaining receptor 1-like
SNP_54612_A_30193569	NC_021166.1	Ca_Kabuli_Chr07	30193569	TT	AA	AA	INTRON	101505393	ER lumen protein-retaining receptor 1-like
SNP_54613_A_30197094	NC_021166.1	Ca_Kabuli_Chr07	30197094	TT	CC	CC	URR	101492383	ninja-family protein AFP2-like
SNP_54614_A_30197095	NC_021166.1	Ca_Kabuli_Chr07	30197095	CC	AA	AA	URR	101492383	ninja-family protein AFP2-like
SNP_54615_A_30198262	NC_021166.1	Ca_Kabuli_Chr07	30198262	AA	GG	GG	URR	101492383	ninja-family protein AFP2-like
SNP_54616_A_30207798	NC_021166.1	Ca_Kabuli_Chr07	30207798	AA	TT	TT	INTERGENIC		
SNP_54617_A_30207849	NC_021166.1	Ca_Kabuli_Chr07	30207849	GG	TT	TT	INTERGENIC		
SNP_54618_A_30207937	NC_021166.1	Ca_Kabuli_Chr07	30207937	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54619_A_30207941	NC_021166.1	Ca_Kabuli_Chr07	30207941	TT	AA	AA	INTERGENIC			
SNP_54620_A_30207961	NC_021166.1	Ca_Kabuli_Chr07	30207961	GG	AA	AA	INTERGENIC			
SNP_54621_A_30207981	NC_021166.1	Ca_Kabuli_Chr07	30207981	AA	CC	CC	INTERGENIC			
SNP_54622_A_30207992	NC_021166.1	Ca_Kabuli_Chr07	30207992	GG	CC	CC	INTERGENIC			
SNP_54623_A_30208010	NC_021166.1	Ca_Kabuli_Chr07	30208010	AA	CC	CC	INTERGENIC			
SNP_54624_A_30208018	NC_021166.1	Ca_Kabuli_Chr07	30208018	TT	CC	CC	INTERGENIC			
SNP_54625_A_30208029	NC_021166.1	Ca_Kabuli_Chr07	30208029	AA	GG	GG	INTERGENIC			
SNP_54626_A_30208075	NC_021166.1	Ca_Kabuli_Chr07	30208075	CC	TT	TT	INTERGENIC			
SNP_54627_A_30208123	NC_021166.1	Ca_Kabuli_Chr07	30208123	AA	CC	CC	INTERGENIC			
SNP_54628_A_30208132	NC_021166.1	Ca_Kabuli_Chr07	30208132	AA	GG	GG	INTERGENIC			
SNP_54629_A_30208139	NC_021166.1	Ca_Kabuli_Chr07	30208139	GG	TT	TT	INTERGENIC			
SNP_54632_A_30208185	NC_021166.1	Ca_Kabuli_Chr07	30208185	GG	CC	CC	INTERGENIC			
SNP_54633_A_30208193	NC_021166.1	Ca_Kabuli_Chr07	30208193	GG	CC	CC	INTERGENIC			
SNP_54634_A_30208204	NC_021166.1	Ca_Kabuli_Chr07	30208204	TT	AA	AA	INTERGENIC			
SNP_54635_A_30208214	NC_021166.1	Ca_Kabuli_Chr07	30208214	GG	AA	AA	INTERGENIC			
SNP_54636_A_30208223	NC_021166.1	Ca_Kabuli_Chr07	30208223	AA	GG	GG	INTERGENIC			
SNP_54637_A_30208257	NC_021166.1	Ca_Kabuli_Chr07	30208257	AA	TT	TT	INTERGENIC			
SNP_54638_A_30208272	NC_021166.1	Ca_Kabuli_Chr07	30208272	AA	CC	CC	INTERGENIC			
SNP_54640_A_30208313	NC_021166.1	Ca_Kabuli_Chr07	30208313	TT	CC	CC	INTERGENIC			
SNP_54641_A_30208318	NC_021166.1	Ca_Kabuli_Chr07	30208318	AA	GG	GG	INTERGENIC			
SNP_54642_A_30208334	NC_021166.1	Ca_Kabuli_Chr07	30208334	CC	TT	TT	INTERGENIC			
SNP_54643_A_30208429	NC_021166.1	Ca_Kabuli_Chr07	30208429	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54644_A_30208448	NC_021166.1	Ca_Kabuli_Chr07	30208448	AA	GG	GG	INTERGENIC		
SNP_54645_A_30208695	NC_021166.1	Ca_Kabuli_Chr07	30208695	TT	CC	CC	INTERGENIC		
SNP_54646_A_30208747	NC_021166.1	Ca_Kabuli_Chr07	30208747	TT	GG	GG	INTERGENIC		
SNP_54648_A_30208827	NC_021166.1	Ca_Kabuli_Chr07	30208827	TT	CC	CC	INTERGENIC		
SNP_54649_A_30208889	NC_021166.1	Ca_Kabuli_Chr07	30208889	AA	GG	GG	INTERGENIC		
SNP_54650_A_30208944	NC_021166.1	Ca_Kabuli_Chr07	30208944	AA	TT	TT	INTERGENIC		
SNP_54651_A_30216562	NC_021166.1	Ca_Kabuli_Chr07	30216562	TT	CC	CC	INTERGENIC		
SNP_54652_A_30216601	NC_021166.1	Ca_Kabuli_Chr07	30216601	TT	CC	CC	INTERGENIC		
SNP_54653_A_30218326	NC_021166.1	Ca_Kabuli_Chr07	30218326	AA	GG	GG	URR	101493047	uncharacterized LOC101493047
SNP_54655_A_30225545	NC_021166.1	Ca_Kabuli_Chr07	30225545	TT	GG	GG	INTERGENIC		
SNP_54656_A_30226208	NC_021166.1	Ca_Kabuli_Chr07	30226208	GG	TT	TT	INTERGENIC		
SNP_54657_A_30226790	NC_021166.1	Ca_Kabuli_Chr07	30226790	CC	TT	TT	INTERGENIC		
SNP_54658_A_30226792	NC_021166.1	Ca_Kabuli_Chr07	30226792	CC	AA	AA	INTERGENIC		
SNP_54659_A_30226866	NC_021166.1	Ca_Kabuli_Chr07	30226866	AA	GG	GG	INTERGENIC		
SNP_54660_A_30226868	NC_021166.1	Ca_Kabuli_Chr07	30226868	AA	GG	GG	INTERGENIC		
SNP_54661_A_30227065	NC_021166.1	Ca_Kabuli_Chr07	30227065	TT	GG	GG	INTERGENIC		
SNP_54662_A_30227608	NC_021166.1	Ca_Kabuli_Chr07	30227608	CC	TT	TT	INTERGENIC		
SNP_54663_A_30228489	NC_021166.1	Ca_Kabuli_Chr07	30228489	AA	CC	CC	INTERGENIC		
SNP_54665_A_30228902	NC_021166.1	Ca_Kabuli_Chr07	30228902	GG	AA	AA	INTERGENIC		
SNP_54666_A_30229985	NC_021166.1	Ca_Kabuli_Chr07	30229985	GG	TT	TT	INTERGENIC		
SNP_54667_A_30231890	NC_021166.1	Ca_Kabuli_Chr07	30231890	CC	TT	TT	INTERGENIC		
SNP_54668_A_30231893	NC_021166.1	Ca_Kabuli_Chr07	30231893	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54669_A_30232165	NC_021166.1	Ca_Kabuli_Chr07	30232165	AA	GG	GG	INTERGENIC		
SNP_54671_A_30235254	NC_021166.1	Ca_Kabuli_Chr07	30235254	GG	AA	AA	URR	101493371	hydroquinone glucosyltransferase-like
SNP_54672_A_30236379	NC_021166.1	Ca_Kabuli_Chr07	30236379	TT	AA	AA	URR	101493371	hydroquinone glucosyltransferase-like
SNP_54673_A_30236383	NC_021166.1	Ca_Kabuli_Chr07	30236383	AA	TT	TT	URR	101493371	hydroquinone glucosyltransferase-like
SNP_54674_A_30237688	NC_021166.1	Ca_Kabuli_Chr07	30237688	GG	CC	CC	INTERGENIC		
SNP_54675_A_30237899	NC_021166.1	Ca_Kabuli_Chr07	30237899	AA	GG	GG	INTERGENIC		
SNP_54676_A_30237982	NC_021166.1	Ca_Kabuli_Chr07	30237982	AA	GG	GG	DRR	101493692	defensin-like protein 19
SNP_54678_A_30241119	NC_021166.1	Ca_Kabuli_Chr07	30241119	AA	GG	GG	URR	101493692	defensin-like protein 19
SNP_54679_A_30241156	NC_021166.1	Ca_Kabuli_Chr07	30241156	AA	GG	GG	URR	101493692	defensin-like protein 19
SNP_54680_A_30241157	NC_021166.1	Ca_Kabuli_Chr07	30241157	AA	CC	CC	URR	101493692	defensin-like protein 19
SNP_54681_A_30241163	NC_021166.1	Ca_Kabuli_Chr07	30241163	AA	GG	GG	URR	101493692	defensin-like protein 19
SNP_54682_A_30242079	NC_021166.1	Ca_Kabuli_Chr07	30242079	AA	GG	GG	INTERGENIC		
SNP_54683_A_30242101	NC_021166.1	Ca_Kabuli_Chr07	30242101	CC	AA	AA	INTERGENIC		
SNP_54684_A_30243165	NC_021166.1	Ca_Kabuli_Chr07	30243165	AA	TT	TT	INTERGENIC		
SNP_54685_A_30243510	NC_021166.1	Ca_Kabuli_Chr07	30243510	CC	GG	GG	INTERGENIC		
SNP_54686_A_30243623	NC_021166.1	Ca_Kabuli_Chr07	30243623	AA	GG	GG	INTERGENIC		
SNP_54687_A_30245260	NC_021166.1	Ca_Kabuli_Chr07	30245260	AA	CC	CC	DRR	101506049	Unknown function
SNP_54688_A_30246250	NC_021166.1	Ca_Kabuli_Chr07	30246250	CC	TT	TT	DRR	101506365	membrane protein of ER body-like protein
SNP_54689_A_30248972	NC_021166.1	Ca_Kabuli_Chr07	30248972	AA	GG	GG	INTERGENIC		
SNP_54690_A_30261355	NC_021166.1	Ca_Kabuli_Chr07	30261355	GG	AA	AA	INTERGENIC		
SNP_54691_A_30261607	NC_021166.1	Ca_Kabuli_Chr07	30261607	AA	TT	TT	INTERGENIC		
SNP_54692_A_30261861	NC_021166.1	Ca_Kabuli_Chr07	30261861	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54693_A_30262983	NC_021166.1	Ca_Kabuli_Chr07	30262983	GG	TT	TT	INTERGENIC			
SNP_54694_A_30262984	NC_021166.1	Ca_Kabuli_Chr07	30262984	CC	GG	GG	INTERGENIC			
SNP_54695_A_30265972	NC_021166.1	Ca_Kabuli_Chr07	30265972	TT	CC	CC	INTERGENIC			
SNP_54696_A_30267500	NC_021166.1	Ca_Kabuli_Chr07	30267500	TT	CC	CC	INTERGENIC			
SNP_54697_A_30267633	NC_021166.1	Ca_Kabuli_Chr07	30267633	TT	AA	AA	INTERGENIC			
SNP_54699_A_30269316	NC_021166.1	Ca_Kabuli_Chr07	30269316	AA	TT	TT	INTERGENIC			
SNP_54700_A_30272810	NC_021166.1	Ca_Kabuli_Chr07	30272810	AA	GG	GG	INTERGENIC			
SNP_54701_A_30272820	NC_021166.1	Ca_Kabuli_Chr07	30272820	GG	CC	CC	INTERGENIC			
SNP_54702_A_30272978	NC_021166.1	Ca_Kabuli_Chr07	30272978	CC	AA	AA	INTERGENIC			
SNP_54703_A_30272995	NC_021166.1	Ca_Kabuli_Chr07	30272995	AA	GG	GG	INTERGENIC			
SNP_54704_A_30276083	NC_021166.1	Ca_Kabuli_Chr07	30276083	AA	CC	CC	INTERGENIC			
SNP_54705_A_30276086	NC_021166.1	Ca_Kabuli_Chr07	30276086	GG	CC	CC	INTERGENIC			
SNP_54706_A_30276253	NC_021166.1	Ca_Kabuli_Chr07	30276253	AA	TT	TT	INTERGENIC			
SNP_54707_A_30276254	NC_021166.1	Ca_Kabuli_Chr07	30276254	TT	AA	AA	INTERGENIC			
SNP_54708_A_30276277	NC_021166.1	Ca_Kabuli_Chr07	30276277	TT	AA	AA	INTERGENIC			
SNP_54709_A_30276493	NC_021166.1	Ca_Kabuli_Chr07	30276493	TT	AA	AA	INTERGENIC			
SNP_54711_A_30276525	NC_021166.1	Ca_Kabuli_Chr07	30276525	GG	AA	AA	INTERGENIC			
SNP_54712_A_30276550	NC_021166.1	Ca_Kabuli_Chr07	30276550	AA	CC	CC	INTERGENIC			
SNP_54713_A_30276551	NC_021166.1	Ca_Kabuli_Chr07	30276551	GG	TT	TT	INTERGENIC			
SNP_54714_A_30276559	NC_021166.1	Ca_Kabuli_Chr07	30276559	CC	AA	AA	INTERGENIC			
SNP_54715_A_30276578	NC_021166.1	Ca_Kabuli_Chr07	30276578	GG	AA	AA	INTERGENIC			
SNP_54716_A_30276804	NC_021166.1	Ca_Kabuli_Chr07	30276804	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54719_A_30280160	NC_021166.1	Ca_Kabuli_Chr07	30280160	AA	CC	CC	INTERGENIC		
SNP_54721_A_30284702	NC_021166.1	Ca_Kabuli_Chr07	30284702	CC	GG	GG	INTRON	101494956	RPM1-interacting protein 4
SNP_54722_A_30285328	NC_021166.1	Ca_Kabuli_Chr07	30285328	AA	TT	TT	INTRON	101494956	RPM1-interacting protein 4
SNP_54723_A_30286118	NC_021166.1	Ca_Kabuli_Chr07	30286118	TT	CC	CC	INTRON	101494956	RPM1-interacting protein 4
SNP_54724_A_30287744	NC_021166.1	Ca_Kabuli_Chr07	30287744	AA	CC	CC	URR	101494956	RPM1-interacting protein 4
SNP_54725_A_30287784	NC_021166.1	Ca_Kabuli_Chr07	30287784	TT	CC	CC	URR	101494956	RPM1-interacting protein 4
SNP_54726_A_30292090	NC_021166.1	Ca_Kabuli_Chr07	30292090	GG	AA	AA	INTERGENIC		
SNP_54727_A_30293753	NC_021166.1	Ca_Kabuli_Chr07	30293753	AA	TT	TT	DRR	101495501	beta-amyrin 11-oxidase-like
SNP_54728_A_30293786	NC_021166.1	Ca_Kabuli_Chr07	30293786	TT	CC	CC	DRR	101495501	beta-amyrin 11-oxidase-like
SNP_54730_A_30298287	NC_021166.1	Ca_Kabuli_Chr07	30298287	TT	CC	CC	INTRON	101495501	beta-amyrin 11-oxidase-like
SNP_54733_A_30300469	NC_021166.1	Ca_Kabuli_Chr07	30300469	AA	TT	TT	URR	101495501	beta-amyrin 11-oxidase-like
SNP_54734_A_30300674	NC_021166.1	Ca_Kabuli_Chr07	30300674	AA	GG	GG	URR	101495501	beta-amyrin 11-oxidase-like
SNP_54735_A_30300726	NC_021166.1	Ca_Kabuli_Chr07	30300726	CC	TT	TT	URR	101495501	beta-amyrin 11-oxidase-like
SNP_54736_A_30300780	NC_021166.1	Ca_Kabuli_Chr07	30300780	CC	TT	TT	URR	101495501	beta-amyrin 11-oxidase-like
SNP_54737_A_30300810	NC_021166.1	Ca_Kabuli_Chr07	30300810	TT	GG	GG	URR	101495501	beta-amyrin 11-oxidase-like
SNP_54738_A_30302943	NC_021166.1	Ca_Kabuli_Chr07	30302943	TT	CC	CC	INTERGENIC		
SNP_54739_A_30303198	NC_021166.1	Ca_Kabuli_Chr07	30303198	CC	TT	TT	INTERGENIC		
SNP_54741_A_30303530	NC_021166.1	Ca_Kabuli_Chr07	30303530	GG	AA	AA	INTERGENIC		
SNP_54742_A_30303534	NC_021166.1	Ca_Kabuli_Chr07	30303534	TT	CC	CC	INTERGENIC		
SNP_54743_A_30303553	NC_021166.1	Ca_Kabuli_Chr07	30303553	TT	CC	CC	INTERGENIC		
SNP_54744_A_30303571	NC_021166.1	Ca_Kabuli_Chr07	30303571	TT	CC	CC	INTERGENIC		
SNP_54745_A_30303645	NC_021166.1	Ca_Kabuli_Chr07	30303645	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54746_A_30303656	NC_021166.1	Ca_Kabuli_Chr07	30303656	CC	TT	TT	INTERGENIC		
SNP_54747_A_30303768	NC_021166.1	Ca_Kabuli_Chr07	30303768	TT	CC	CC	INTERGENIC		
SNP_54748_A_30303881	NC_021166.1	Ca_Kabuli_Chr07	30303881	CC	TT	TT	INTERGENIC		
SNP_54749_A_30303887	NC_021166.1	Ca_Kabuli_Chr07	30303887	TT	CC	CC	INTERGENIC		
SNP_54750_A_30303954	NC_021166.1	Ca_Kabuli_Chr07	30303954	TT	AA	AA	INTERGENIC		
SNP_54751_A_30303979	NC_021166.1	Ca_Kabuli_Chr07	30303979	CC	TT	TT	INTERGENIC		
SNP_54752_A_30303980	NC_021166.1	Ca_Kabuli_Chr07	30303980	CC	TT	TT	INTERGENIC		
SNP_54753_A_30306852	NC_021166.1	Ca_Kabuli_Chr07	30306852	AA	TT	TT	NON_SYNONYMOUS_CODING	101495829	beta-amyrin 11-oxidase-like
SNP_54754_A_30306853	NC_021166.1	Ca_Kabuli_Chr07	30306853	AA	GG	GG	SYNONYMOUS_CODING	101495829	beta-amyrin 11-oxidase-like
SNP_54755_A_30306957	NC_021166.1	Ca_Kabuli_Chr07	30306957	TT	CC	CC	INTRON	101495829	beta-amyrin 11-oxidase-like
SNP_54756_A_30306973	NC_021166.1	Ca_Kabuli_Chr07	30306973	TT	CC	CC	INTRON	101495829	beta-amyrin 11-oxidase-like
SNP_54759_A_30311466	NC_021166.1	Ca_Kabuli_Chr07	30311466	GG	CC	CC	URR	101495829	beta-amyrin 11-oxidase-like
SNP_54760_A_30311629	NC_021166.1	Ca_Kabuli_Chr07	30311629	CC	TT	TT	URR	101495829	beta-amyrin 11-oxidase-like
SNP_54761_A_30316384	NC_021166.1	Ca_Kabuli_Chr07	30316384	AA	GG	GG	DRR	101496150	beta-amyrin 11-oxidase-like
SNP_54763_A_30319576	NC_021166.1	Ca_Kabuli_Chr07	30319576	TT	CC	CC	INTERGENIC		
SNP_54764_A_30320554	NC_021166.1	Ca_Kabuli_Chr07	30320554	CC	TT	TT	INTERGENIC		
SNP_54765_A_30321330	NC_021166.1	Ca_Kabuli_Chr07	30321330	GG	CC	CC	INTERGENIC		
SNP_54766_A_30321365	NC_021166.1	Ca_Kabuli_Chr07	30321365	TT	AA	AA	INTERGENIC		
SNP_54767_A_30321369	NC_021166.1	Ca_Kabuli_Chr07	30321369	GG	AA	AA	INTERGENIC		
SNP_54768_A_30321408	NC_021166.1	Ca_Kabuli_Chr07	30321408	GG	AA	AA	INTERGENIC		
SNP_54769_A_30321453	NC_021166.1	Ca_Kabuli_Chr07	30321453	CC	TT	TT	INTERGENIC		
SNP_54770_A_30321460	NC_021166.1	Ca_Kabuli_Chr07	30321460	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54771_A_30321502	NC_021166.1	Ca_Kabuli_Chr07	30321502	AA	GG	GG	INTERGENIC		
SNP_54772_A_30322645	NC_021166.1	Ca_Kabuli_Chr07	30322645	CC	GG	GG	URR	101496150	beta-amyrin 11-oxidase-like
SNP_54773_A_30323524	NC_021166.1	Ca_Kabuli_Chr07	30323524	CC	TT	TT	DRR	101496479	beta-amyrin 11-oxidase-like
SNP_54774_A_30325312	NC_021166.1	Ca_Kabuli_Chr07	30325312	GG	AA	AA	INTRON	101496479	beta-amyrin 11-oxidase-like
SNP_54775_A_30325414	NC_021166.1	Ca_Kabuli_Chr07	30325414	CC	TT	TT	INTRON	101496479	beta-amyrin 11-oxidase-like
SNP_54776_A_30325880	NC_021166.1	Ca_Kabuli_Chr07	30325880	GG	AA	AA	INTRON	101496479	beta-amyrin 11-oxidase-like
SNP_54777_A_30325885	NC_021166.1	Ca_Kabuli_Chr07	30325885	TT	AA	AA	INTRON	101496479	beta-amyrin 11-oxidase-like
SNP_54778_A_30330356	NC_021166.1	Ca_Kabuli_Chr07	30330356	TT	GG	GG	URR	101496479	beta-amyrin 11-oxidase-like
SNP_54779_A_30346499	NC_021166.1	Ca_Kabuli_Chr07	30346499	GG	AA	AA	INTERGENIC		
SNP_54780_A_30346648	NC_021166.1	Ca_Kabuli_Chr07	30346648	GG	AA	AA	INTERGENIC		
SNP_54781_A_30346659	NC_021166.1	Ca_Kabuli_Chr07	30346659	AA	GG	GG	INTERGENIC		
SNP_54782_A_30347468	NC_021166.1	Ca_Kabuli_Chr07	30347468	AA	GG	GG	INTERGENIC		
SNP_54783_A_30347749	NC_021166.1	Ca_Kabuli_Chr07	30347749	AA	GG	GG	INTERGENIC		
SNP_54784_A_30348436	NC_021166.1	Ca_Kabuli_Chr07	30348436	TT	CC	CC	INTERGENIC		
SNP_54785_A_30351273	NC_021166.1	Ca_Kabuli_Chr07	30351273	CC	TT	TT	INTERGENIC		
SNP_54786_A_30351332	NC_021166.1	Ca_Kabuli_Chr07	30351332	CC	TT	TT	INTERGENIC		
SNP_54787_A_30355115	NC_021166.1	Ca_Kabuli_Chr07	30355115	CC	TT	TT	INTRON	101497137	ankyrin repeat and SAM domain-containing protein 6
SNP_54788_A_30356766	NC_021166.1	Ca_Kabuli_Chr07	30356766	CC	TT	TT	INTERGENIC		
SNP_54789_A_30356774	NC_021166.1	Ca_Kabuli_Chr07	30356774	CC	TT	TT	INTERGENIC		
SNP_54791_A_30365156	NC_021166.1	Ca_Kabuli_Chr07	30365156	GG	TT	TT	INTRON	101497469	UBX domain-containing protein 1-like
SNP_54793_A_30365430	NC_021166.1	Ca_Kabuli_Chr07	30365430	TT	CC	CC	INTERGENIC		
SNP_54794_A_30365433	NC_021166.1	Ca_Kabuli_Chr07	30365433	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54795_A_30365458	NC_021166.1	Ca_Kabuli_Chr07	30365458	TT	AA	AA	INTERGENIC		
SNP_54797_A_30366367	NC_021166.1	Ca_Kabuli_Chr07	30366367	AA	GG	GG	INTERGENIC		
SNP_54798_A_30366448	NC_021166.1	Ca_Kabuli_Chr07	30366448	AA	TT	TT	INTERGENIC		
SNP_54800_A_30368620	NC_021166.1	Ca_Kabuli_Chr07	30368620	GG	CC	CC	URR	101497469	UBX domain-containing protein 1-like
SNP_54801_A_30377101	NC_021166.1	Ca_Kabuli_Chr07	30377101	GG	CC	CC	URR	101498331	GPI transamidase component PIG-T
SNP_54802_A_30393814	NC_021166.1	Ca_Kabuli_Chr07	30393814	TT	CC	CC	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54803_A_30393827	NC_021166.1	Ca_Kabuli_Chr07	30393827	AA	GG	GG	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54804_A_30394076	NC_021166.1	Ca_Kabuli_Chr07	30394076	CC	TT	TT	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54805_A_30394234	NC_021166.1	Ca_Kabuli_Chr07	30394234	AA	GG	GG	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54806_A_30394595	NC_021166.1	Ca_Kabuli_Chr07	30394595	AA	GG	GG	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54807_A_30394640	NC_021166.1	Ca_Kabuli_Chr07	30394640	GG	AA	AA	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54808_A_30394654	NC_021166.1	Ca_Kabuli_Chr07	30394654	AA	GG	GG	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54809_A_30394669	NC_021166.1	Ca_Kabuli_Chr07	30394669	GG	AA	AA	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54813_A_30395401	NC_021166.1	Ca_Kabuli_Chr07	30395401	AA	GG	GG	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54815_A_30396131	NC_021166.1	Ca_Kabuli_Chr07	30396131	GG	AA	AA	INTRON	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54816_A_30396198	NC_021166.1	Ca_Kabuli_Chr07	30396198	CC	TT	TT	URR	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54817_A_30396986	NC_021166.1	Ca_Kabuli_Chr07	30396986	AA	TT	TT	URR	101507020	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54818_A_30411344	NC_021166.1	Ca_Kabuli_Chr07	30411344	AA	GG	GG	INTERGENIC		
SNP_54819_A_30412833	NC_021166.1	Ca_Kabuli_Chr07	30412833	TT	CC	CC	DRR	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54820_A_30412951	NC_021166.1	Ca_Kabuli_Chr07	30412951	AA	GG	GG	DRR	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54821_A_30412974	NC_021166.1	Ca_Kabuli_Chr07	30412974	GG	TT	TT	DRR	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54822_A_30414086	NC_021166.1	Ca_Kabuli_Chr07	30414086	AA	CC	CC	STOP_GAINED	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54823_A_30414088	NC_021166.1	Ca_Kabuli_Chr07	30414088	AA	GG	GG	NON_SYNONYMOUS_CODING	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54824_A_30414094	NC_021166.1	Ca_Kabuli_Chr07	30414094	CC	TT	TT	NON_SYNONYMOUS_CODING	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54825_A_30414645	NC_021166.1	Ca_Kabuli_Chr07	30414645	GG	AA	AA	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54826_A_30414863	NC_021166.1	Ca_Kabuli_Chr07	30414863	AA	GG	GG	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54827_A_30414867	NC_021166.1	Ca_Kabuli_Chr07	30414867	TT	CC	CC	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54828_A_30414886	NC_021166.1	Ca_Kabuli_Chr07	30414886	AA	GG	GG	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54829_A_30414911	NC_021166.1	Ca_Kabuli_Chr07	30414911	TT	CC	CC	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54831_A_30415187	NC_021166.1	Ca_Kabuli_Chr07	30415187	TT	CC	CC	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54832_A_30415350	NC_021166.1	Ca_Kabuli_Chr07	30415350	TT	AA	AA	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54834_A_30415408	NC_021166.1	Ca_Kabuli_Chr07	30415408	TT	CC	CC	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54835_A_30416454	NC_021166.1	Ca_Kabuli_Chr07	30416454	TT	CC	CC	INTRON	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54837_A_30422780	NC_021166.1	Ca_Kabuli_Chr07	30422780	CC	TT	TT	URR	101507975	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54839_A_30424266	NC_021166.1	Ca_Kabuli_Chr07	30424266	AA	TT	TT	DRR	101508607	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54840_A_30424498	NC_021166.1	Ca_Kabuli_Chr07	30424498	CC	TT	TT	DRR	101508607	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54841_A_30424588	NC_021166.1	Ca_Kabuli_Chr07	30424588	TT	GG	GG	DRR	101508607	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54842_A_30426273	NC_021166.1	Ca_Kabuli_Chr07	30426273	GG	TT	TT	URR	101508287	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54843_A_30426821	NC_021166.1	Ca_Kabuli_Chr07	30426821	CC	AA	AA	URR	101508607	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_54845_A_30617434	NC_021166.1	Ca_Kabuli_Chr07	30617434	GG	AA	AA	INTERGENIC		
SNP_54846_A_30617439	NC_021166.1	Ca_Kabuli_Chr07	30617439	AA	CC	CC	INTERGENIC		
SNP_54847_A_30617443	NC_021166.1	Ca_Kabuli_Chr07	30617443	TT	CC	CC	INTERGENIC		
SNP_54848_A_30620858	NC_021166.1	Ca_Kabuli_Chr07	30620858	CC	GG	GG	DRR	101508921	cullin-1-like
SNP_54849_A_30631228	NC_021166.1	Ca_Kabuli_Chr07	30631228	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54850_A_30639232	NC_021166.1	Ca_Kabuli_Chr07	30639232	CC	TT	TT	INTERGENIC			
SNP_54851_A_30657587	NC_021166.1	Ca_Kabuli_Chr07	30657587	TT	CC	CC	URR	101512897		uncharacterized LOC101512897
SNP_54852_A_30661557	NC_021166.1	Ca_Kabuli_Chr07	30661557	GG	AA	AA	INTERGENIC			
SNP_54853_A_30661920	NC_021166.1	Ca_Kabuli_Chr07	30661920	GG	AA	AA	INTERGENIC			
SNP_54854_A_30662387	NC_021166.1	Ca_Kabuli_Chr07	30662387	TT	CC	CC	INTERGENIC			
SNP_54856_A_30666345	NC_021166.1	Ca_Kabuli_Chr07	30666345	GG	AA	AA	INTERGENIC			
SNP_54857_A_30666367	NC_021166.1	Ca_Kabuli_Chr07	30666367	CC	GG	GG	INTERGENIC			
SNP_54858_A_30666370	NC_021166.1	Ca_Kabuli_Chr07	30666370	CC	TT	TT	INTERGENIC			
SNP_54860_A_30673511	NC_021166.1	Ca_Kabuli_Chr07	30673511	GG	AA	AA	INTERGENIC			
SNP_54861_A_30678156	NC_021166.1	Ca_Kabuli_Chr07	30678156	GG	AA	AA	INTERGENIC			
SNP_54862_A_30678598	NC_021166.1	Ca_Kabuli_Chr07	30678598	GG	CC	CC	INTERGENIC			
SNP_54863_A_30681868	NC_021166.1	Ca_Kabuli_Chr07	30681868	AA	TT	TT	INTERGENIC			
SNP_54864_A_30690286	NC_021166.1	Ca_Kabuli_Chr07	30690286	CC	GG	GG	DRR	101509238		ethylene-responsive transcription factor ERF039-like
SNP_54865_A_30690878	NC_021166.1	Ca_Kabuli_Chr07	30690878	GG	TT	TT	DRR	101509238		ethylene-responsive transcription factor ERF039-like
SNP_54866_A_30690906	NC_021166.1	Ca_Kabuli_Chr07	30690906	GG	AA	AA	URR	101509238		ethylene-responsive transcription factor ERF039-like
SNP_54867_A_30692459	NC_021166.1	Ca_Kabuli_Chr07	30692459	CC	TT	TT	URR	101509238		ethylene-responsive transcription factor ERF039-like
SNP_54868_A_30697364	NC_021166.1	Ca_Kabuli_Chr07	30697364	AA	CC	CC	INTERGENIC			
SNP_54869_A_30697682	NC_021166.1	Ca_Kabuli_Chr07	30697682	TT	CC	CC	DRR	101410600		transfer RNA arginine (anticodon UCU)
SNP_54870_A_30697726	NC_021166.1	Ca_Kabuli_Chr07	30697726	AA	GG	GG	DRR	101410600		transfer RNA arginine (anticodon UCU)
SNP_54871_A_30699192	NC_021166.1	Ca_Kabuli_Chr07	30699192	TT	GG	GG	URR	101410600		transfer RNA arginine (anticodon UCU)
SNP_54872_A_30699207	NC_021166.1	Ca_Kabuli_Chr07	30699207	AA	TT	TT	URR	101410600		transfer RNA arginine (anticodon UCU)
SNP_54873_A_30699217	NC_021166.1	Ca_Kabuli_Chr07	30699217	AA	TT	TT	URR	101410600		transfer RNA arginine (anticodon UCU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54874_A_30699788	NC_021166.1	Ca_Kabuli_Chr07	30699788	AA	GG	GG	URR	101410600	transfer RNA arginine (anticodon UCU)
SNP_54875_A_30700423	NC_021166.1	Ca_Kabuli_Chr07	30700423	AA	TT	TT	URR	101410600	transfer RNA arginine (anticodon UCU)
SNP_54876_A_30701809	NC_021166.1	Ca_Kabuli_Chr07	30701809	AA	TT	TT	INTERGENIC		
SNP_54877_A_30701811	NC_021166.1	Ca_Kabuli_Chr07	30701811	AA	TT	TT	INTERGENIC		
SNP_54878_A_30705136	NC_021166.1	Ca_Kabuli_Chr07	30705136	AA	CC	CC	INTERGENIC		
SNP_54879_A_30708757	NC_021166.1	Ca_Kabuli_Chr07	30708757	TT	CC	CC	INTRON	101509882	uncharacterized LOC101509882
SNP_54881_A_30720852	NC_021166.1	Ca_Kabuli_Chr07	30720852	TT	CC	CC	INTERGENIC		
SNP_54882_A_30720908	NC_021166.1	Ca_Kabuli_Chr07	30720908	TT	CC	CC	INTERGENIC		
SNP_54883_A_30721008	NC_021166.1	Ca_Kabuli_Chr07	30721008	GG	AA	AA	INTERGENIC		
SNP_54884_A_30721052	NC_021166.1	Ca_Kabuli_Chr07	30721052	TT	GG	GG	INTERGENIC		
SNP_54885_A_30722856	NC_021166.1	Ca_Kabuli_Chr07	30722856	TT	AA	AA	INTERGENIC		
SNP_54886_A_30723461	NC_021166.1	Ca_Kabuli_Chr07	30723461	CC	GG	GG	INTERGENIC		
SNP_54887_A_30723464	NC_021166.1	Ca_Kabuli_Chr07	30723464	TT	CC	CC	INTERGENIC		
SNP_54888_A_30726118	NC_021166.1	Ca_Kabuli_Chr07	30726118	TT	CC	CC	INTERGENIC		
SNP_54889_A_30726122	NC_021166.1	Ca_Kabuli_Chr07	30726122	CC	TT	TT	INTERGENIC		
SNP_54890_A_30726131	NC_021166.1	Ca_Kabuli_Chr07	30726131	TT	CC	CC	INTERGENIC		
SNP_54891_A_30728927	NC_021166.1	Ca_Kabuli_Chr07	30728927	AA	TT	TT	INTERGENIC		
SNP_54892_A_30734123	NC_021166.1	Ca_Kabuli_Chr07	30734123	CC	GG	GG	DRR	101510199	GATA transcription factor 9-like
SNP_54893_A_30737133	NC_021166.1	Ca_Kabuli_Chr07	30737133	TT	GG	GG	URR	101510199	GATA transcription factor 9-like
SNP_54894_A_30737134	NC_021166.1	Ca_Kabuli_Chr07	30737134	AA	GG	GG	URR	101510199	GATA transcription factor 9-like
SNP_54895_A_30739702	NC_021166.1	Ca_Kabuli_Chr07	30739702	AA	TT	TT	INTERGENIC		
SNP_54896_A_30740734	NC_021166.1	Ca_Kabuli_Chr07	30740734	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54897_A_30740775	NC_021166.1	Ca_Kabuli_Chr07	30740775	CC	TT	TT	INTERGENIC			
SNP_54898_A_30741042	NC_021166.1	Ca_Kabuli_Chr07	30741042	AA	TT	TT	INTERGENIC			
SNP_54899_A_30743335	NC_021166.1	Ca_Kabuli_Chr07	30743335	AA	TT	TT	INTERGENIC			
SNP_54900_A_30743571	NC_021166.1	Ca_Kabuli_Chr07	30743571	AA	TT	TT	INTERGENIC			
SNP_54902_A_30745390	NC_021166.1	Ca_Kabuli_Chr07	30745390	GG	TT	TT	INTERGENIC			
SNP_54904_A_30746900	NC_021166.1	Ca_Kabuli_Chr07	30746900	CC	TT	TT	INTERGENIC			
SNP_54905_A_30748467	NC_021166.1	Ca_Kabuli_Chr07	30748467	GG	AA	AA	INTERGENIC			
SNP_54906_A_30751085	NC_021166.1	Ca_Kabuli_Chr07	30751085	GG	CC	CC	INTERGENIC			
SNP_54907_A_30752208	NC_021166.1	Ca_Kabuli_Chr07	30752208	GG	AA	AA	INTERGENIC			
SNP_54908_A_30752231	NC_021166.1	Ca_Kabuli_Chr07	30752231	TT	GG	GG	INTERGENIC			
SNP_54909_A_30752240	NC_021166.1	Ca_Kabuli_Chr07	30752240	CC	TT	TT	INTERGENIC			
SNP_54910_A_30752262	NC_021166.1	Ca_Kabuli_Chr07	30752262	CC	TT	TT	INTERGENIC			
SNP_54911_A_30754132	NC_021166.1	Ca_Kabuli_Chr07	30754132	AA	GG	GG	INTERGENIC			
SNP_54912_A_30754640	NC_021166.1	Ca_Kabuli_Chr07	30754640	AA	GG	GG	INTERGENIC			
SNP_54913_A_30754704	NC_021166.1	Ca_Kabuli_Chr07	30754704	GG	AA	AA	INTERGENIC			
SNP_54916_A_30763150	NC_021166.1	Ca_Kabuli_Chr07	30763150	CC	AA	AA	INTRON	101510535	homeobox-leucine zipper protein ATHB-15-like	
SNP_54917_A_30768391	NC_021166.1	Ca_Kabuli_Chr07	30768391	TT	GG	GG	URR	101510535	homeobox-leucine zipper protein ATHB-15-like	
SNP_54918_A_30768403	NC_021166.1	Ca_Kabuli_Chr07	30768403	TT	CC	CC	URR	101510535	homeobox-leucine zipper protein ATHB-15-like	
SNP_54919_A_30768410	NC_021166.1	Ca_Kabuli_Chr07	30768410	TT	GG	GG	URR	101510535	homeobox-leucine zipper protein ATHB-15-like	
SNP_54920_A_30768899	NC_021166.1	Ca_Kabuli_Chr07	30768899	TT	CC	CC	URR	101510535	homeobox-leucine zipper protein ATHB-15-like	
SNP_54922_A_30770702	NC_021166.1	Ca_Kabuli_Chr07	30770702	CC	GG	GG	DRR	101511082	uncharacterized LOC101511082	
SNP_54923_A_30773187	NC_021166.1	Ca_Kabuli_Chr07	30773187	TT	CC	CC	URR	101511082	uncharacterized LOC101511082	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54924_A_30775093	NC_021166.1	Ca_Kabuli_Chr07	30775093	GG	AA	AA	INTERGENIC		
SNP_54925_A_30775136	NC_021166.1	Ca_Kabuli_Chr07	30775136	CC	TT	TT	INTERGENIC		
SNP_54926_A_30775278	NC_021166.1	Ca_Kabuli_Chr07	30775278	CC	TT	TT	INTERGENIC		
SNP_54927_A_30776091	NC_021166.1	Ca_Kabuli_Chr07	30776091	GG	AA	AA	INTERGENIC		
SNP_54928_A_30776108	NC_021166.1	Ca_Kabuli_Chr07	30776108	TT	GG	GG	INTERGENIC		
SNP_54929_A_30776370	NC_021166.1	Ca_Kabuli_Chr07	30776370	TT	AA	AA	INTERGENIC		
SNP_54930_A_30776472	NC_021166.1	Ca_Kabuli_Chr07	30776472	GG	TT	TT	INTERGENIC		
SNP_54931_A_30776499	NC_021166.1	Ca_Kabuli_Chr07	30776499	AA	CC	CC	INTERGENIC		
SNP_54933_A_30782813	NC_021166.1	Ca_Kabuli_Chr07	30782813	GG	AA	AA	INTERGENIC		
SNP_54934_A_30788122	NC_021166.1	Ca_Kabuli_Chr07	30788122	TT	CC	CC	INTERGENIC		
SNP_54935_A_30788143	NC_021166.1	Ca_Kabuli_Chr07	30788143	AA	GG	GG	INTERGENIC		
SNP_54936_A_30788173	NC_021166.1	Ca_Kabuli_Chr07	30788173	AA	GG	GG	INTERGENIC		
SNP_54937_A_30791891	NC_021166.1	Ca_Kabuli_Chr07	30791891	GG	AA	AA	INTERGENIC		
SNP_54938_A_30795598	NC_021166.1	Ca_Kabuli_Chr07	30795598	TT	GG	GG	INTERGENIC		
SNP_54940_A_30795934	NC_021166.1	Ca_Kabuli_Chr07	30795934	AA	TT	TT	INTERGENIC		
SNP_54941_A_30797708	NC_021166.1	Ca_Kabuli_Chr07	30797708	CC	TT	TT	INTERGENIC		
SNP_54942_A_30798300	NC_021166.1	Ca_Kabuli_Chr07	30798300	CC	TT	TT	INTERGENIC		
SNP_54943_A_30798655	NC_021166.1	Ca_Kabuli_Chr07	30798655	GG	AA	AA	INTERGENIC		
SNP_54944_A_30805755	NC_021166.1	Ca_Kabuli_Chr07	30805755	GG	AA	AA	INTRON	101513223	insulin-degrading enzyme-like
SNP_54945_A_30805783	NC_021166.1	Ca_Kabuli_Chr07	30805783	AA	CC	CC	INTRON	101513223	insulin-degrading enzyme-like
SNP_54946_A_30805794	NC_021166.1	Ca_Kabuli_Chr07	30805794	AA	GG	GG	INTRON	101513223	insulin-degrading enzyme-like
SNP_54948_A_30806169	NC_021166.1	Ca_Kabuli_Chr07	30806169	CC	TT	TT	INTRON	101513223	insulin-degrading enzyme-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54950_A_30806901	NC_021166.1	Ca_Kabuli_Chr07	30806901	AA	GG	GG	INTRON	101513223	insulin-degrading enzyme-like
SNP_54951_A_30806914	NC_021166.1	Ca_Kabuli_Chr07	30806914	GG	TT	TT	INTRON	101513223	insulin-degrading enzyme-like
SNP_54953_A_30807734	NC_021166.1	Ca_Kabuli_Chr07	30807734	TT	CC	CC	INTRON	101513223	insulin-degrading enzyme-like
SNP_54954_A_30807735	NC_021166.1	Ca_Kabuli_Chr07	30807735	GG	TT	TT	INTRON	101513223	insulin-degrading enzyme-like
SNP_54955_A_30807737	NC_021166.1	Ca_Kabuli_Chr07	30807737	AA	TT	TT	INTRON	101513223	insulin-degrading enzyme-like
SNP_54956_A_30807738	NC_021166.1	Ca_Kabuli_Chr07	30807738	TT	AA	AA	INTRON	101513223	insulin-degrading enzyme-like
SNP_54957_A_30807772	NC_021166.1	Ca_Kabuli_Chr07	30807772	CC	TT	TT	INTRON	101513223	insulin-degrading enzyme-like
SNP_54958_A_30807773	NC_021166.1	Ca_Kabuli_Chr07	30807773	TT	AA	AA	INTRON	101513223	insulin-degrading enzyme-like
SNP_54959_A_30809910	NC_021166.1	Ca_Kabuli_Chr07	30809910	CC	AA	AA	INTRON	101513223	insulin-degrading enzyme-like
SNP_54960_A_30812046	NC_021166.1	Ca_Kabuli_Chr07	30812046	AA	TT	TT	NON_SYNONYMOUS_CODING	101513223	insulin-degrading enzyme-like
SNP_54961_A_30812283	NC_021166.1	Ca_Kabuli_Chr07	30812283	AA	GG	GG	INTRON	101513223	insulin-degrading enzyme-like
SNP_54962_A_30812527	NC_021166.1	Ca_Kabuli_Chr07	30812527	CC	TT	TT	INTRON	101513223	insulin-degrading enzyme-like
SNP_54963_A_30812549	NC_021166.1	Ca_Kabuli_Chr07	30812549	AA	GG	GG	INTRON	101513223	insulin-degrading enzyme-like
SNP_54964_A_30812831	NC_021166.1	Ca_Kabuli_Chr07	30812831	TT	CC	CC	INTRON	101513223	insulin-degrading enzyme-like
SNP_54965_A_30814934	NC_021166.1	Ca_Kabuli_Chr07	30814934	CC	TT	TT	DRR	101513223	insulin-degrading enzyme-like
SNP_54966_A_30817654	NC_021166.1	Ca_Kabuli_Chr07	30817654	TT	CC	CC	INTERGENIC		
SNP_54967_A_30819090	NC_021166.1	Ca_Kabuli_Chr07	30819090	GG	AA	AA	INTERGENIC		
SNP_54968_A_30819176	NC_021166.1	Ca_Kabuli_Chr07	30819176	AA	GG	GG	INTERGENIC		
SNP_54969_A_30821285	NC_021166.1	Ca_Kabuli_Chr07	30821285	TT	AA	AA	INTERGENIC		
SNP_54970_A_30821302	NC_021166.1	Ca_Kabuli_Chr07	30821302	GG	TT	TT	INTERGENIC		
SNP_54971_A_30821496	NC_021166.1	Ca_Kabuli_Chr07	30821496	CC	TT	TT	INTERGENIC		
SNP_54972_A_30821685	NC_021166.1	Ca_Kabuli_Chr07	30821685	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_54973_A_30821955	NC_021166.1	Ca_Kabuli_Chr07	30821955	CC	TT	TT	INTERGENIC			
SNP_54974_A_30822368	NC_021166.1	Ca_Kabuli_Chr07	30822368	TT	GG	GG	INTERGENIC			
SNP_54975_A_30822532	NC_021166.1	Ca_Kabuli_Chr07	30822532	AA	GG	GG	INTERGENIC			
SNP_54976_A_30823676	NC_021166.1	Ca_Kabuli_Chr07	30823676	TT	CC	CC	INTERGENIC			
SNP_54977_A_30823690	NC_021166.1	Ca_Kabuli_Chr07	30823690	AA	GG	GG	INTERGENIC			
SNP_54978_A_30823915	NC_021166.1	Ca_Kabuli_Chr07	30823915	TT	CC	CC	INTERGENIC			
SNP_54980_A_30825694	NC_021166.1	Ca_Kabuli_Chr07	30825694	AA	TT	TT	INTERGENIC			
SNP_54981_A_30834646	NC_021166.1	Ca_Kabuli_Chr07	30834646	GG	TT	TT	INTERGENIC			
SNP_54982_A_30835702	NC_021166.1	Ca_Kabuli_Chr07	30835702	GG	AA	AA	INTERGENIC			
SNP_54983_A_30835767	NC_021166.1	Ca_Kabuli_Chr07	30835767	GG	CC	CC	INTERGENIC			
SNP_54984_A_30835770	NC_021166.1	Ca_Kabuli_Chr07	30835770	AA	TT	TT	INTERGENIC			
SNP_54985_A_30836016	NC_021166.1	Ca_Kabuli_Chr07	30836016	GG	AA	AA	INTERGENIC			
SNP_54986_A_30839265	NC_021166.1	Ca_Kabuli_Chr07	30839265	AA	CC	CC	URR	101511390	uncharacterized LOC101511390	
SNP_54987_A_30839326	NC_021166.1	Ca_Kabuli_Chr07	30839326	TT	AA	AA	URR	101511390	uncharacterized LOC101511390	
SNP_54988_A_30839343	NC_021166.1	Ca_Kabuli_Chr07	30839343	GG	AA	AA	URR	101511390	uncharacterized LOC101511390	
SNP_54989_A_30839344	NC_021166.1	Ca_Kabuli_Chr07	30839344	GG	AA	AA	URR	101511390	uncharacterized LOC101511390	
SNP_54990_A_30839972	NC_021166.1	Ca_Kabuli_Chr07	30839972	TT	CC	CC	URR	101511390	uncharacterized LOC101511390	
SNP_54991_A_30840247	NC_021166.1	Ca_Kabuli_Chr07	30840247	AA	GG	GG	URR	101511390	uncharacterized LOC101511390	
SNP_54992_A_30840251	NC_021166.1	Ca_Kabuli_Chr07	30840251	GG	AA	AA	URR	101511390	uncharacterized LOC101511390	
SNP_54993_A_30840288	NC_021166.1	Ca_Kabuli_Chr07	30840288	AA	CC	CC	URR	101511390	uncharacterized LOC101511390	
SNP_54994_A_30840303	NC_021166.1	Ca_Kabuli_Chr07	30840303	CC	TT	TT	URR	101511390	uncharacterized LOC101511390	
SNP_54995_A_30840311	NC_021166.1	Ca_Kabuli_Chr07	30840311	TT	CC	CC	URR	101511390	uncharacterized LOC101511390	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_54996_A_30840345	NC_021166.1	Ca_Kabuli_Chr07	30840345	TT	CC	CC	URR	101511390	uncharacterized LOC101511390
SNP_54998_A_30840690	NC_021166.1	Ca_Kabuli_Chr07	30840690	TT	CC	CC	URR	101511390	uncharacterized LOC101511390
SNP_54999_A_30842223	NC_021166.1	Ca_Kabuli_Chr07	30842223	GG	CC	CC	INTERGENIC		
SNP_55000_A_30842358	NC_021166.1	Ca_Kabuli_Chr07	30842358	AA	CC	CC	INTERGENIC		
SNP_55001_A_30842476	NC_021166.1	Ca_Kabuli_Chr07	30842476	AA	CC	CC	INTERGENIC		
SNP_55002_A_30842787	NC_021166.1	Ca_Kabuli_Chr07	30842787	GG	CC	CC	INTERGENIC		
SNP_55003_A_30843037	NC_021166.1	Ca_Kabuli_Chr07	30843037	TT	CC	CC	INTERGENIC		
SNP_55004_A_30843041	NC_021166.1	Ca_Kabuli_Chr07	30843041	GG	AA	AA	INTERGENIC		
SNP_55005_A_30843080	NC_021166.1	Ca_Kabuli_Chr07	30843080	CC	TT	TT	INTERGENIC		
SNP_55006_A_30844988	NC_021166.1	Ca_Kabuli_Chr07	30844988	TT	CC	CC	INTERGENIC		
SNP_55007_A_30848463	NC_021166.1	Ca_Kabuli_Chr07	30848463	CC	TT	TT	INTERGENIC		
SNP_55008_A_30858647	NC_021166.1	Ca_Kabuli_Chr07	30858647	GG	AA	AA	URR	101511720	uncharacterized LOC101511720
SNP_55010_A_30864050	NC_021166.1	Ca_Kabuli_Chr07	30864050	CC	TT	TT	INTRON	101512036	protein SAWADEE HOMEODOMAIN HOMOLOG 1-like
SNP_55011_A_30864344	NC_021166.1	Ca_Kabuli_Chr07	30864344	TT	GG	GG	INTRON	101512036	protein SAWADEE HOMEODOMAIN HOMOLOG 1-like
SNP_55012_A_30869593	NC_021166.1	Ca_Kabuli_Chr07	30869593	AA	GG	GG	URR	101512036	protein SAWADEE HOMEODOMAIN HOMOLOG 1-like
SNP_55013_A_30869601	NC_021166.1	Ca_Kabuli_Chr07	30869601	CC	TT	TT	URR	101512036	protein SAWADEE HOMEODOMAIN HOMOLOG 1-like
SNP_55015_A_30869755	NC_021166.1	Ca_Kabuli_Chr07	30869755	AA	GG	GG	URR	101512036	protein SAWADEE HOMEODOMAIN HOMOLOG 1-like
SNP_55017_A_30871441	NC_021166.1	Ca_Kabuli_Chr07	30871441	GG	AA	AA	INTERGENIC		
SNP_55018_A_30871487	NC_021166.1	Ca_Kabuli_Chr07	30871487	CC	TT	TT	INTERGENIC		
SNP_55019_A_30872043	NC_021166.1	Ca_Kabuli_Chr07	30872043	CC	TT	TT	INTERGENIC		
SNP_55020_A_30874265	NC_021166.1	Ca_Kabuli_Chr07	30874265	GG	AA	AA	INTERGENIC		
SNP_55021_A_30874266	NC_021166.1	Ca_Kabuli_Chr07	30874266	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55023_A_30874335	NC_021166.1	Ca_Kabuli_Chr07	30874335	GG	AA	AA	INTERGENIC			
SNP_55024_A_30874372	NC_021166.1	Ca_Kabuli_Chr07	30874372	AA	GG	GG	INTERGENIC			
SNP_55025_A_30874646	NC_021166.1	Ca_Kabuli_Chr07	30874646	TT	CC	CC	INTERGENIC			
SNP_55026_A_30874652	NC_021166.1	Ca_Kabuli_Chr07	30874652	GG	AA	AA	INTERGENIC			
SNP_55027_A_30874725	NC_021166.1	Ca_Kabuli_Chr07	30874725	GG	AA	AA	INTERGENIC			
SNP_55028_A_30874745	NC_021166.1	Ca_Kabuli_Chr07	30874745	GG	AA	AA	INTERGENIC			
SNP_55029_A_30910389	NC_021166.1	Ca_Kabuli_Chr07	30910389	AA	TT	TT	INTERGENIC			
SNP_55030_A_30910791	NC_021166.1	Ca_Kabuli_Chr07	30910791	AA	CC	CC	INTERGENIC			
SNP_55031_A_30912533	NC_021166.1	Ca_Kabuli_Chr07	30912533	GG	AA	AA	INTERGENIC			
SNP_55032_A_30913047	NC_021166.1	Ca_Kabuli_Chr07	30913047	TT	AA	AA	INTERGENIC			
SNP_55033_A_30915651	NC_021166.1	Ca_Kabuli_Chr07	30915651	CC	TT	TT	INTERGENIC			
SNP_55034_A_30921704	NC_021166.1	Ca_Kabuli_Chr07	30921704	CC	GG	GG	INTERGENIC			
SNP_55035_A_30930561	NC_021166.1	Ca_Kabuli_Chr07	30930561	TT	AA	AA	INTERGENIC			
SNP_55037_A_30930689	NC_021166.1	Ca_Kabuli_Chr07	30930689	GG	CC	CC	INTERGENIC			
SNP_55038_A_30947265	NC_021166.1	Ca_Kabuli_Chr07	30947265	TT	GG	GG	INTERGENIC			
SNP_55039_A_30948144	NC_021166.1	Ca_Kabuli_Chr07	30948144	AA	GG	GG	INTERGENIC			
SNP_55040_A_30948155	NC_021166.1	Ca_Kabuli_Chr07	30948155	GG	AA	AA	INTERGENIC			
SNP_55041_A_30964091	NC_021166.1	Ca_Kabuli_Chr07	30964091	AA	GG	GG	INTERGENIC			
SNP_55042_A_30966130	NC_021166.1	Ca_Kabuli_Chr07	30966130	AA	GG	GG	INTERGENIC			
SNP_55043_A_30966219	NC_021166.1	Ca_Kabuli_Chr07	30966219	GG	TT	TT	INTERGENIC			
SNP_55044_A_30966513	NC_021166.1	Ca_Kabuli_Chr07	30966513	GG	AA	AA	INTERGENIC			
SNP_55046_A_30976395	NC_021166.1	Ca_Kabuli_Chr07	30976395	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55047_A_30979507	NC_021166.1	Ca_Kabuli_Chr07	30979507	GG	AA	AA	INTERGENIC			
SNP_55048_A_30981552	NC_021166.1	Ca_Kabuli_Chr07	30981552	AA	TT	TT	INTERGENIC			
SNP_55049_A_30983230	NC_021166.1	Ca_Kabuli_Chr07	30983230	GG	TT	TT	INTERGENIC			
SNP_55050_A_30983242	NC_021166.1	Ca_Kabuli_Chr07	30983242	TT	CC	CC	INTERGENIC			
SNP_55051_A_30987856	NC_021166.1	Ca_Kabuli_Chr07	30987856	CC	GG	GG	INTERGENIC			
SNP_55052_A_30987878	NC_021166.1	Ca_Kabuli_Chr07	30987878	GG	AA	AA	INTERGENIC			
SNP_55053_A_30987902	NC_021166.1	Ca_Kabuli_Chr07	30987902	GG	AA	AA	INTERGENIC			
SNP_55054_A_30991969	NC_021166.1	Ca_Kabuli_Chr07	30991969	GG	AA	AA	INTERGENIC			
SNP_55055_A_30991980	NC_021166.1	Ca_Kabuli_Chr07	30991980	AA	CC	CC	INTERGENIC			
SNP_55056_A_30993884	NC_021166.1	Ca_Kabuli_Chr07	30993884	TT	CC	CC	INTERGENIC			
SNP_55057_A_30999279	NC_021166.1	Ca_Kabuli_Chr07	30999279	GG	AA	AA	INTERGENIC			
SNP_55058_A_30999506	NC_021166.1	Ca_Kabuli_Chr07	30999506	AA	GG	GG	INTERGENIC			
SNP_55059_A_30999565	NC_021166.1	Ca_Kabuli_Chr07	30999565	GG	CC	CC	INTERGENIC			
SNP_55060_A_30999587	NC_021166.1	Ca_Kabuli_Chr07	30999587	CC	TT	TT	INTERGENIC			
SNP_55061_A_31005628	NC_021166.1	Ca_Kabuli_Chr07	31005628	TT	CC	CC	INTERGENIC			
SNP_55062_A_31047392	NC_021166.1	Ca_Kabuli_Chr07	31047392	TT	AA	AA	INTERGENIC			
SNP_55063_A_31047483	NC_021166.1	Ca_Kabuli_Chr07	31047483	TT	CC	CC	INTERGENIC			
SNP_55064_A_31047491	NC_021166.1	Ca_Kabuli_Chr07	31047491	CC	TT	TT	INTERGENIC			
SNP_55065_A_31047675	NC_021166.1	Ca_Kabuli_Chr07	31047675	CC	TT	TT	INTERGENIC			
SNP_55066_A_31047685	NC_021166.1	Ca_Kabuli_Chr07	31047685	CC	TT	TT	INTERGENIC			
SNP_55067_A_31047862	NC_021166.1	Ca_Kabuli_Chr07	31047862	CC	TT	TT	INTERGENIC			
SNP_55068_A_31047911	NC_021166.1	Ca_Kabuli_Chr07	31047911	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55069_A_31048392	NC_021166.1	Ca_Kabuli_Chr07	31048392	TT	GG	GG	INTERGENIC			
SNP_55070_A_31048451	NC_021166.1	Ca_Kabuli_Chr07	31048451	GG	AA	AA	INTERGENIC			
SNP_55071_A_31048534	NC_021166.1	Ca_Kabuli_Chr07	31048534	CC	AA	AA	INTERGENIC			
SNP_55072_A_31062088	NC_021166.1	Ca_Kabuli_Chr07	31062088	AA	GG	GG	INTERGENIC			
SNP_55073_A_31064287	NC_021166.1	Ca_Kabuli_Chr07	31064287	GG	AA	AA	INTERGENIC			
SNP_55074_A_31070291	NC_021166.1	Ca_Kabuli_Chr07	31070291	CC	TT	TT	INTERGENIC			
SNP_55075_A_31070580	NC_021166.1	Ca_Kabuli_Chr07	31070580	CC	TT	TT	INTERGENIC			
SNP_55076_A_31070623	NC_021166.1	Ca_Kabuli_Chr07	31070623	CC	TT	TT	INTERGENIC			
SNP_55077_A_31072179	NC_021166.1	Ca_Kabuli_Chr07	31072179	TT	CC	CC	INTERGENIC			
SNP_55078_A_31073467	NC_021166.1	Ca_Kabuli_Chr07	31073467	AA	CC	CC	INTERGENIC			
SNP_55079_A_31073482	NC_021166.1	Ca_Kabuli_Chr07	31073482	TT	CC	CC	INTERGENIC			
SNP_55080_A_31073533	NC_021166.1	Ca_Kabuli_Chr07	31073533	AA	TT	TT	INTERGENIC			
SNP_55081_A_31074170	NC_021166.1	Ca_Kabuli_Chr07	31074170	AA	GG	GG	INTERGENIC			
SNP_55082_A_31074176	NC_021166.1	Ca_Kabuli_Chr07	31074176	AA	GG	GG	INTERGENIC			
SNP_55083_A_31074192	NC_021166.1	Ca_Kabuli_Chr07	31074192	AA	CC	CC	INTERGENIC			
SNP_55084_A_31074195	NC_021166.1	Ca_Kabuli_Chr07	31074195	CC	TT	TT	INTERGENIC			
SNP_55085_A_31074202	NC_021166.1	Ca_Kabuli_Chr07	31074202	AA	GG	GG	INTERGENIC			
SNP_55086_A_31074242	NC_021166.1	Ca_Kabuli_Chr07	31074242	TT	CC	CC	INTERGENIC			
SNP_55087_A_31074339	NC_021166.1	Ca_Kabuli_Chr07	31074339	CC	TT	TT	INTERGENIC			
SNP_55088_A_31074371	NC_021166.1	Ca_Kabuli_Chr07	31074371	TT	CC	CC	INTERGENIC			
SNP_55089_A_31074426	NC_021166.1	Ca_Kabuli_Chr07	31074426	AA	GG	GG	INTERGENIC			
SNP_55090_A_31074441	NC_021166.1	Ca_Kabuli_Chr07	31074441	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55091_A_31074463	NC_021166.1	Ca_Kabuli_Chr07	31074463	TT	GG	GG	INTERGENIC			
SNP_55092_A_31074495	NC_021166.1	Ca_Kabuli_Chr07	31074495	TT	CC	CC	INTERGENIC			
SNP_55093_A_31074877	NC_021166.1	Ca_Kabuli_Chr07	31074877	CC	TT	TT	INTERGENIC			
SNP_55094_A_31074889	NC_021166.1	Ca_Kabuli_Chr07	31074889	TT	CC	CC	INTERGENIC			
SNP_55095_A_31074896	NC_021166.1	Ca_Kabuli_Chr07	31074896	AA	GG	GG	INTERGENIC			
SNP_55096_A_31074936	NC_021166.1	Ca_Kabuli_Chr07	31074936	TT	AA	AA	INTERGENIC			
SNP_55097_A_31075097	NC_021166.1	Ca_Kabuli_Chr07	31075097	GG	CC	CC	INTERGENIC			
SNP_55098_A_31075140	NC_021166.1	Ca_Kabuli_Chr07	31075140	CC	TT	TT	INTERGENIC			
SNP_55099_A_31078066	NC_021166.1	Ca_Kabuli_Chr07	31078066	CC	TT	TT	INTERGENIC			
SNP_55100_A_31078316	NC_021166.1	Ca_Kabuli_Chr07	31078316	AA	GG	GG	INTERGENIC			
SNP_55102_A_31088091	NC_021166.1	Ca_Kabuli_Chr07	31088091	CC	TT	TT	INTERGENIC			
SNP_55103_A_31093251	NC_021166.1	Ca_Kabuli_Chr07	31093251	TT	AA	AA	INTERGENIC			
SNP_55104_A_31093254	NC_021166.1	Ca_Kabuli_Chr07	31093254	CC	TT	TT	INTERGENIC			
SNP_55105_A_31093255	NC_021166.1	Ca_Kabuli_Chr07	31093255	AA	CC	CC	INTERGENIC			
SNP_55106_A_31094109	NC_021166.1	Ca_Kabuli_Chr07	31094109	GG	AA	AA	INTERGENIC			
SNP_55107_A_31094796	NC_021166.1	Ca_Kabuli_Chr07	31094796	AA	GG	GG	INTERGENIC			
SNP_55108_A_31098808	NC_021166.1	Ca_Kabuli_Chr07	31098808	CC	AA	AA	INTERGENIC			
SNP_55109_A_31098817	NC_021166.1	Ca_Kabuli_Chr07	31098817	AA	GG	GG	INTERGENIC			
SNP_55110_A_31098827	NC_021166.1	Ca_Kabuli_Chr07	31098827	CC	TT	TT	INTERGENIC			
SNP_55111_A_31102807	NC_021166.1	Ca_Kabuli_Chr07	31102807	AA	TT	TT	INTERGENIC			
SNP_55112_A_31107249	NC_021166.1	Ca_Kabuli_Chr07	31107249	GG	AA	AA	INTERGENIC			
SNP_55113_A_31107454	NC_021166.1	Ca_Kabuli_Chr07	31107454	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55114_A_31108205	NC_021166.1	Ca_Kabuli_Chr07	31108205	AA	GG	GG	INTERGENIC			
SNP_55115_A_31108268	NC_021166.1	Ca_Kabuli_Chr07	31108268	AA	GG	GG	INTERGENIC			
SNP_55116_A_31109124	NC_021166.1	Ca_Kabuli_Chr07	31109124	CC	GG	GG	INTERGENIC			
SNP_55117_A_31111498	NC_021166.1	Ca_Kabuli_Chr07	31111498	CC	GG	GG	INTERGENIC			
SNP_55118_A_31111546	NC_021166.1	Ca_Kabuli_Chr07	31111546	GG	AA	AA	INTERGENIC			
SNP_55119_A_31111624	NC_021166.1	Ca_Kabuli_Chr07	31111624	AA	CC	CC	INTERGENIC			
SNP_55120_A_31111705	NC_021166.1	Ca_Kabuli_Chr07	31111705	GG	AA	AA	INTERGENIC			
SNP_55121_A_31111831	NC_021166.1	Ca_Kabuli_Chr07	31111831	CC	TT	TT	INTERGENIC			
SNP_55122_A_31111839	NC_021166.1	Ca_Kabuli_Chr07	31111839	AA	GG	GG	INTERGENIC			
SNP_55123_A_31111875	NC_021166.1	Ca_Kabuli_Chr07	31111875	AA	TT	TT	INTERGENIC			
SNP_55124_A_31111876	NC_021166.1	Ca_Kabuli_Chr07	31111876	AA	TT	TT	INTERGENIC			
SNP_55125_A_31111898	NC_021166.1	Ca_Kabuli_Chr07	31111898	CC	TT	TT	INTERGENIC			
SNP_55126_A_31111913	NC_021166.1	Ca_Kabuli_Chr07	31111913	GG	TT	TT	INTERGENIC			
SNP_55127_A_31111937	NC_021166.1	Ca_Kabuli_Chr07	31111937	CC	TT	TT	INTERGENIC			
SNP_55128_A_31112358	NC_021166.1	Ca_Kabuli_Chr07	31112358	AA	GG	GG	INTERGENIC			
SNP_55129_A_31112426	NC_021166.1	Ca_Kabuli_Chr07	31112426	AA	CC	CC	INTERGENIC			
SNP_55131_A_31112497	NC_021166.1	Ca_Kabuli_Chr07	31112497	GG	TT	TT	INTERGENIC			
SNP_55132_A_31113006	NC_021166.1	Ca_Kabuli_Chr07	31113006	GG	AA	AA	INTERGENIC			
SNP_55133_A_31131273	NC_021166.1	Ca_Kabuli_Chr07	31131273	CC	TT	TT	INTERGENIC			
SNP_55134_A_31131556	NC_021166.1	Ca_Kabuli_Chr07	31131556	CC	TT	TT	INTERGENIC			
SNP_55136_A_31133379	NC_021166.1	Ca_Kabuli_Chr07	31133379	GG	AA	AA	URR	101514735	1-aminocyclopropane-1-carboxylate oxidase 3	
SNP_55137_A_31134451	NC_021166.1	Ca_Kabuli_Chr07	31134451	AA	GG	GG	URR	101514735	1-aminocyclopropane-1-carboxylate oxidase 3	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55139_A_31148053	NC_021166.1	Ca_Kabuli_Chr07	31148053	GG	AA	AA	INTERGENIC			
SNP_55140_A_31148767	NC_021166.1	Ca_Kabuli_Chr07	31148767	AA	TT	TT	INTERGENIC			
SNP_55141_A_31150103	NC_021166.1	Ca_Kabuli_Chr07	31150103	TT	CC	CC	INTERGENIC			
SNP_55142_A_31150105	NC_021166.1	Ca_Kabuli_Chr07	31150105	GG	AA	AA	INTERGENIC			
SNP_55143_A_31150124	NC_021166.1	Ca_Kabuli_Chr07	31150124	TT	CC	CC	INTERGENIC			
SNP_55144_A_31150320	NC_021166.1	Ca_Kabuli_Chr07	31150320	CC	TT	TT	INTERGENIC			
SNP_55145_A_31151222	NC_021166.1	Ca_Kabuli_Chr07	31151222	TT	CC	CC	INTERGENIC			
SNP_55146_A_31151223	NC_021166.1	Ca_Kabuli_Chr07	31151223	CC	TT	TT	INTERGENIC			
SNP_55147_A_31151228	NC_021166.1	Ca_Kabuli_Chr07	31151228	CC	TT	TT	INTERGENIC			
SNP_55148_A_31151240	NC_021166.1	Ca_Kabuli_Chr07	31151240	AA	GG	GG	INTERGENIC			
SNP_55149_A_31152193	NC_021166.1	Ca_Kabuli_Chr07	31152193	TT	GG	GG	INTERGENIC			
SNP_55150_A_31152531	NC_021166.1	Ca_Kabuli_Chr07	31152531	CC	TT	TT	INTERGENIC			
SNP_55152_A_31152646	NC_021166.1	Ca_Kabuli_Chr07	31152646	AA	GG	GG	INTERGENIC			
SNP_55153_A_31152651	NC_021166.1	Ca_Kabuli_Chr07	31152651	TT	CC	CC	INTERGENIC			
SNP_55154_A_31152655	NC_021166.1	Ca_Kabuli_Chr07	31152655	AA	GG	GG	INTERGENIC			
SNP_55155_A_31152700	NC_021166.1	Ca_Kabuli_Chr07	31152700	CC	TT	TT	INTERGENIC			
SNP_55156_A_31152708	NC_021166.1	Ca_Kabuli_Chr07	31152708	CC	TT	TT	INTERGENIC			
SNP_55157_A_31152713	NC_021166.1	Ca_Kabuli_Chr07	31152713	TT	GG	GG	INTERGENIC			
SNP_55158_A_31152727	NC_021166.1	Ca_Kabuli_Chr07	31152727	AA	GG	GG	INTERGENIC			
SNP_55159_A_31152967	NC_021166.1	Ca_Kabuli_Chr07	31152967	TT	CC	CC	INTERGENIC			
SNP_55161_A_31157541	NC_021166.1	Ca_Kabuli_Chr07	31157541	GG	AA	AA	INTRON		101515061	ABC transporter G family member 36-like
SNP_55162_A_31158868	NC_021166.1	Ca_Kabuli_Chr07	31158868	TT	AA	AA	SYNONYMOUS_CODING		101515061	ABC transporter G family member 36-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55163_A_31162155	NC_021166.1	Ca_Kabuli_Chr07	31162155	TT	AA	AA	INTRON	101515061	ABC transporter G family member 36-like
SNP_55164_A_31162160	NC_021166.1	Ca_Kabuli_Chr07	31162160	GG	CC	CC	INTRON	101515061	ABC transporter G family member 36-like
SNP_55165_A_31167749	NC_021166.1	Ca_Kabuli_Chr07	31167749	TT	GG	GG	URR	101515061	ABC transporter G family member 36-like
SNP_55167_A_31169428	NC_021166.1	Ca_Kabuli_Chr07	31169428	AA	GG	GG	DRR	101515384	NADP-dependent malic enzyme-like
SNP_55168_A_31169715	NC_021166.1	Ca_Kabuli_Chr07	31169715	TT	GG	GG	INTERGENIC		
SNP_55169_A_31169750	NC_021166.1	Ca_Kabuli_Chr07	31169750	TT	GG	GG	INTERGENIC		
SNP_55170_A_31169904	NC_021166.1	Ca_Kabuli_Chr07	31169904	AA	GG	GG	INTERGENIC		
SNP_55172_A_31175806	NC_021166.1	Ca_Kabuli_Chr07	31175806	CC	TT	TT	URR	101515384	NADP-dependent malic enzyme-like
SNP_55173_A_31175818	NC_021166.1	Ca_Kabuli_Chr07	31175818	AA	TT	TT	URR	101515384	NADP-dependent malic enzyme-like
SNP_55174_A_31175834	NC_021166.1	Ca_Kabuli_Chr07	31175834	AA	GG	GG	URR	101515384	NADP-dependent malic enzyme-like
SNP_55175_A_31176887	NC_021166.1	Ca_Kabuli_Chr07	31176887	AA	GG	GG	URR	101515384	NADP-dependent malic enzyme-like
SNP_55176_A_31176894	NC_021166.1	Ca_Kabuli_Chr07	31176894	TT	CC	CC	URR	101515384	NADP-dependent malic enzyme-like
SNP_55177_A_31177219	NC_021166.1	Ca_Kabuli_Chr07	31177219	GG	TT	TT	URR	101515384	NADP-dependent malic enzyme-like
SNP_55178_A_31181707	NC_021166.1	Ca_Kabuli_Chr07	31181707	GG	AA	AA	DRR	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55180_A_31181949	NC_021166.1	Ca_Kabuli_Chr07	31181949	AA	GG	GG	DRR	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55181_A_31183550	NC_021166.1	Ca_Kabuli_Chr07	31183550	GG	AA	AA	INTRON	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55182_A_31184466	NC_021166.1	Ca_Kabuli_Chr07	31184466	GG	AA	AA	INTRON	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55183_A_31184523	NC_021166.1	Ca_Kabuli_Chr07	31184523	AA	CC	CC	INTRON	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55184_A_31184531	NC_021166.1	Ca_Kabuli_Chr07	31184531	CC	TT	TT	INTRON	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55185_A_31184650	NC_021166.1	Ca_Kabuli_Chr07	31184650	AA	GG	GG	INTRON	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55186_A_31185445	NC_021166.1	Ca_Kabuli_Chr07	31185445	CC	TT	TT	URR	101515720	histidine-containing phosphotransfer protein 4-like
SNP_55187_A_31185901	NC_021166.1	Ca_Kabuli_Chr07	31185901	TT	CC	CC	URR	101515720	histidine-containing phosphotransfer protein 4-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55191_A_31196196	NC_021166.1	Ca_Kabuli_Chr07	31196196	GG	AA	AA	URR	101488479	protein PAF1 homolog
SNP_55192_A_31196280	NC_021166.1	Ca_Kabuli_Chr07	31196280	TT	CC	CC	URR	101488479	protein PAF1 homolog
SNP_55193_A_31197004	NC_021166.1	Ca_Kabuli_Chr07	31197004	AA	CC	CC	DRR	101488822	uncharacterized LOC101488822
SNP_55194_A_31197155	NC_021166.1	Ca_Kabuli_Chr07	31197155	AA	TT	TT	DRR	101488822	uncharacterized LOC101488822
SNP_55195_A_31197497	NC_021166.1	Ca_Kabuli_Chr07	31197497	CC	AA	AA	DRR	101488822	uncharacterized LOC101488822
SNP_55197_A_31200243	NC_021166.1	Ca_Kabuli_Chr07	31200243	TT	CC	CC	DRR	101489148	lysM domain receptor-like kinase 3
SNP_55198_A_31200244	NC_021166.1	Ca_Kabuli_Chr07	31200244	GG	AA	AA	DRR	101489148	lysM domain receptor-like kinase 3
SNP_55199_A_31200246	NC_021166.1	Ca_Kabuli_Chr07	31200246	CC	TT	TT	DRR	101489148	lysM domain receptor-like kinase 3
SNP_55202_A_31204293	NC_021166.1	Ca_Kabuli_Chr07	31204293	AA	TT	TT	INTRON	101489148	lysM domain receptor-like kinase 3
SNP_55203_A_31204314	NC_021166.1	Ca_Kabuli_Chr07	31204314	GG	TT	TT	INTRON	101489148	lysM domain receptor-like kinase 3
SNP_55205_A_31206006	NC_021166.1	Ca_Kabuli_Chr07	31206006	CC	GG	GG	URR	101489148	lysM domain receptor-like kinase 3
SNP_55206_A_31206541	NC_021166.1	Ca_Kabuli_Chr07	31206541	GG	AA	AA	URR	101489148	lysM domain receptor-like kinase 3
SNP_55207_A_31206602	NC_021166.1	Ca_Kabuli_Chr07	31206602	GG	AA	AA	URR	101489148	lysM domain receptor-like kinase 3
SNP_55208_A_31206935	NC_021166.1	Ca_Kabuli_Chr07	31206935	TT	GG	GG	URR	101489148	lysM domain receptor-like kinase 3
SNP_55209_A_31210704	NC_021166.1	Ca_Kabuli_Chr07	31210704	CC	TT	TT	DRR	101489478	auxin-responsive protein IAA26-like
SNP_55211_A_31213560	NC_021166.1	Ca_Kabuli_Chr07	31213560	TT	GG	GG	INTERGENIC		
SNP_55213_A_31215102	NC_021166.1	Ca_Kabuli_Chr07	31215102	CC	TT	TT	DRR	101489792	hexokinase-1-like
SNP_55216_A_31215687	NC_021166.1	Ca_Kabuli_Chr07	31215687	GG	AA	AA	DRR	101489792	hexokinase-1-like
SNP_55217_A_31218132	NC_021166.1	Ca_Kabuli_Chr07	31218132	CC	TT	TT	INTERGENIC		
SNP_55218_A_31218357	NC_021166.1	Ca_Kabuli_Chr07	31218357	CC	AA	AA	INTERGENIC		
SNP_55219_A_31218399	NC_021166.1	Ca_Kabuli_Chr07	31218399	AA	CC	CC	INTERGENIC		
SNP_55220_A_31218482	NC_021166.1	Ca_Kabuli_Chr07	31218482	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55221_A_31219543	NC_021166.1	Ca_Kabuli_Chr07	31219543	AA	TT	TT	INTERGENIC		
SNP_55222_A_31219557	NC_021166.1	Ca_Kabuli_Chr07	31219557	TT	CC	CC	INTERGENIC		
SNP_55223_A_31219562	NC_021166.1	Ca_Kabuli_Chr07	31219562	AA	TT	TT	INTERGENIC		
SNP_55224_A_31224932	NC_021166.1	Ca_Kabuli_Chr07	31224932	TT	GG	GG	INTRON	101490116	nuclear poly(A) polymerase 4-like
SNP_55225_A_31224962	NC_021166.1	Ca_Kabuli_Chr07	31224962	AA	GG	GG	INTRON	101490116	nuclear poly(A) polymerase 4-like
SNP_55226_A_31225914	NC_021166.1	Ca_Kabuli_Chr07	31225914	CC	AA	AA	INTRON	101490116	nuclear poly(A) polymerase 4-like
SNP_55227_A_31229003	NC_021166.1	Ca_Kabuli_Chr07	31229003	GG	TT	TT	URR	101490116	nuclear poly(A) polymerase 4-like
SNP_55228_A_31229042	NC_021166.1	Ca_Kabuli_Chr07	31229042	TT	AA	AA	URR	101490116	nuclear poly(A) polymerase 4-like
SNP_55229_A_31229109	NC_021166.1	Ca_Kabuli_Chr07	31229109	CC	TT	TT	URR	101490116	nuclear poly(A) polymerase 4-like
SNP_55230_A_31229155	NC_021166.1	Ca_Kabuli_Chr07	31229155	CC	GG	GG	URR	101490116	nuclear poly(A) polymerase 4-like
SNP_55231_A_31231061	NC_021166.1	Ca_Kabuli_Chr07	31231061	GG	TT	TT	INTERGENIC		
SNP_55232_A_31231102	NC_021166.1	Ca_Kabuli_Chr07	31231102	TT	CC	CC	INTERGENIC		
SNP_55233_A_31231372	NC_021166.1	Ca_Kabuli_Chr07	31231372	AA	GG	GG	INTERGENIC		
SNP_55234_A_31231508	NC_021166.1	Ca_Kabuli_Chr07	31231508	GG	AA	AA	INTERGENIC		
SNP_55235_A_31231701	NC_021166.1	Ca_Kabuli_Chr07	31231701	TT	CC	CC	INTERGENIC		
SNP_55237_A_31234080	NC_021166.1	Ca_Kabuli_Chr07	31234080	TT	CC	CC	INTERGENIC		
SNP_55238_A_31234722	NC_021166.1	Ca_Kabuli_Chr07	31234722	AA	GG	GG	INTERGENIC		
SNP_55239_A_31234845	NC_021166.1	Ca_Kabuli_Chr07	31234845	GG	AA	AA	INTERGENIC		
SNP_55240_A_31234934	NC_021166.1	Ca_Kabuli_Chr07	31234934	TT	AA	AA	INTERGENIC		
SNP_55241_A_31235334	NC_021166.1	Ca_Kabuli_Chr07	31235334	CC	TT	TT	INTERGENIC		
SNP_55242_A_31235352	NC_021166.1	Ca_Kabuli_Chr07	31235352	TT	CC	CC	INTERGENIC		
SNP_55243_A_31237402	NC_021166.1	Ca_Kabuli_Chr07	31237402	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55244_A_31237425	NC_021166.1	Ca_Kabuli_Chr07	31237425	TT	CC	CC	INTERGENIC			
SNP_55245_A_31238193	NC_021166.1	Ca_Kabuli_Chr07	31238193	AA	GG	GG	INTERGENIC			
SNP_55246_A_31246017	NC_021166.1	Ca_Kabuli_Chr07	31246017	CC	TT	TT	INTERGENIC			
SNP_55247_A_31246068	NC_021166.1	Ca_Kabuli_Chr07	31246068	AA	CC	CC	INTERGENIC			
SNP_55248_A_31248638	NC_021166.1	Ca_Kabuli_Chr07	31248638	AA	CC	CC	INTERGENIC			
SNP_55249_A_31248808	NC_021166.1	Ca_Kabuli_Chr07	31248808	CC	TT	TT	INTERGENIC			
SNP_55250_A_31248809	NC_021166.1	Ca_Kabuli_Chr07	31248809	GG	TT	TT	INTERGENIC			
SNP_55251_A_31250712	NC_021166.1	Ca_Kabuli_Chr07	31250712	GG	AA	AA	INTERGENIC			
SNP_55252_A_31250718	NC_021166.1	Ca_Kabuli_Chr07	31250718	GG	CC	CC	INTERGENIC			
SNP_55253_A_31251147	NC_021166.1	Ca_Kabuli_Chr07	31251147	CC	TT	TT	INTERGENIC			
SNP_55255_A_31255874	NC_021166.1	Ca_Kabuli_Chr07	31255874	TT	CC	CC	DRR	101491092	protein IQ-DOMAIN 14	
SNP_55256_A_31255921	NC_021166.1	Ca_Kabuli_Chr07	31255921	CC	AA	AA	DRR	101491092	protein IQ-DOMAIN 14	
SNP_55257_A_31255922	NC_021166.1	Ca_Kabuli_Chr07	31255922	TT	GG	GG	DRR	101491092	protein IQ-DOMAIN 14	
SNP_55258_A_31255938	NC_021166.1	Ca_Kabuli_Chr07	31255938	GG	AA	AA	DRR	101491092	protein IQ-DOMAIN 14	
SNP_55259_A_31257024	NC_021166.1	Ca_Kabuli_Chr07	31257024	GG	CC	CC	URR	101491092	protein IQ-DOMAIN 14	
SNP_55261_A_31258677	NC_021166.1	Ca_Kabuli_Chr07	31258677	CC	TT	TT	INTERGENIC			
SNP_55262_A_31258687	NC_021166.1	Ca_Kabuli_Chr07	31258687	CC	TT	TT	INTERGENIC			
SNP_55263_A_31267740	NC_021166.1	Ca_Kabuli_Chr07	31267740	TT	CC	CC	INTERGENIC			
SNP_55264_A_31268017	NC_021166.1	Ca_Kabuli_Chr07	31268017	GG	TT	TT	INTERGENIC			
SNP_55265_A_31268380	NC_021166.1	Ca_Kabuli_Chr07	31268380	AA	TT	TT	INTERGENIC			
SNP_55266_A_31268583	NC_021166.1	Ca_Kabuli_Chr07	31268583	CC	AA	AA	INTERGENIC			
SNP_55268_A_31277390	NC_021166.1	Ca_Kabuli_Chr07	31277390	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55269_A_31277424	NC_021166.1	Ca_Kabuli_Chr07	31277424	AA	TT	TT	INTERGENIC		
SNP_55270_A_31277929	NC_021166.1	Ca_Kabuli_Chr07	31277929	AA	CC	CC	INTERGENIC		
SNP_55271_A_31283557	NC_021166.1	Ca_Kabuli_Chr07	31283557	CC	TT	TT	DRR	101491407	stem 28 kDa glycoprotein-like
SNP_55272_A_31284503	NC_021166.1	Ca_Kabuli_Chr07	31284503	CC	GG	GG	NON_SYNONYMOUS_CODING	101491407	stem 28 kDa glycoprotein-like
SNP_55273_A_31287138	NC_021166.1	Ca_Kabuli_Chr07	31287138	AA	GG	GG	URR	101491407	stem 28 kDa glycoprotein-like
SNP_55274_A_31287831	NC_021166.1	Ca_Kabuli_Chr07	31287831	AA	GG	GG	URR	101491407	stem 28 kDa glycoprotein-like
SNP_55275_A_31289683	NC_021166.1	Ca_Kabuli_Chr07	31289683	GG	CC	CC	INTERGENIC		
SNP_55276_A_31294607	NC_021166.1	Ca_Kabuli_Chr07	31294607	AA	GG	GG	DRR	101491723	mitochondrial-processing peptidase subunit alpha-like
SNP_55278_A_31294729	NC_021166.1	Ca_Kabuli_Chr07	31294729	CC	GG	GG	DRR	101491723	mitochondrial-processing peptidase subunit alpha-like
SNP_55279_A_31296109	NC_021166.1	Ca_Kabuli_Chr07	31296109	GG	TT	TT	INTERGENIC		
SNP_55280_A_31296781	NC_021166.1	Ca_Kabuli_Chr07	31296781	CC	AA	AA	INTERGENIC		
SNP_55281_A_31298352	NC_021166.1	Ca_Kabuli_Chr07	31298352	AA	TT	TT	INTERGENIC		
SNP_55282_A_31300337	NC_021166.1	Ca_Kabuli_Chr07	31300337	TT	CC	CC	DRR	101492041	uncharacterized LOC101492041
SNP_55283_A_31300361	NC_021166.1	Ca_Kabuli_Chr07	31300361	AA	GG	GG	DRR	101492041	uncharacterized LOC101492041
SNP_55286_A_31303282	NC_021166.1	Ca_Kabuli_Chr07	31303282	CC	TT	TT	INTRON	101492041	uncharacterized LOC101492041
SNP_55287_A_31304102	NC_021166.1	Ca_Kabuli_Chr07	31304102	TT	CC	CC	INTRON	101492041	uncharacterized LOC101492041
SNP_55288_A_31304182	NC_021166.1	Ca_Kabuli_Chr07	31304182	TT	CC	CC	SYNONYMOUS_CODING	101492041	uncharacterized LOC101492041
SNP_55289_A_31305560	NC_021166.1	Ca_Kabuli_Chr07	31305560	AA	GG	GG	INTRON	101492041	uncharacterized LOC101492041
SNP_55290_A_31305919	NC_021166.1	Ca_Kabuli_Chr07	31305919	TT	GG	GG	INTRON	101492041	uncharacterized LOC101492041
SNP_55291_A_31307360	NC_021166.1	Ca_Kabuli_Chr07	31307360	AA	GG	GG	URR	101492041	uncharacterized LOC101492041
SNP_55292_A_31309518	NC_021166.1	Ca_Kabuli_Chr07	31309518	CC	AA	AA	INTERGENIC		
SNP_55293_A_31309519	NC_021166.1	Ca_Kabuli_Chr07	31309519	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55294_A_31309882	NC_021166.1	Ca_Kabuli_Chr07	31309882	GG	CC	CC	INTERGENIC		
SNP_55295_A_31309929	NC_021166.1	Ca_Kabuli_Chr07	31309929	TT	AA	AA	INTERGENIC		
SNP_55296_A_31310940	NC_021166.1	Ca_Kabuli_Chr07	31310940	TT	CC	CC	INTERGENIC		
SNP_55297_A_31310943	NC_021166.1	Ca_Kabuli_Chr07	31310943	TT	CC	CC	INTERGENIC		
SNP_55298_A_31313046	NC_021166.1	Ca_Kabuli_Chr07	31313046	AA	CC	CC	INTERGENIC		
SNP_55300_A_31313717	NC_021166.1	Ca_Kabuli_Chr07	31313717	GG	AA	AA	INTERGENIC		
SNP_55301_A_31316868	NC_021166.1	Ca_Kabuli_Chr07	31316868	CC	TT	TT	URR	101492384	protein CHUP1, chloroplastic
SNP_55302_A_31317486	NC_021166.1	Ca_Kabuli_Chr07	31317486	AA	GG	GG	URR	101492384	protein CHUP1, chloroplastic
SNP_55303_A_31317823	NC_021166.1	Ca_Kabuli_Chr07	31317823	CC	GG	GG	URR	101492384	protein CHUP1, chloroplastic
SNP_55304_A_31318579	NC_021166.1	Ca_Kabuli_Chr07	31318579	GG	TT	TT	INTERGENIC		
SNP_55305_A_31318698	NC_021166.1	Ca_Kabuli_Chr07	31318698	TT	CC	CC	INTERGENIC		
SNP_55306_A_31319018	NC_021166.1	Ca_Kabuli_Chr07	31319018	AA	CC	CC	INTERGENIC		
SNP_55307_A_31319426	NC_021166.1	Ca_Kabuli_Chr07	31319426	CC	TT	TT	INTERGENIC		
SNP_55308_A_31322169	NC_021166.1	Ca_Kabuli_Chr07	31322169	AA	GG	GG	INTERGENIC		
SNP_55309_A_31322182	NC_021166.1	Ca_Kabuli_Chr07	31322182	CC	TT	TT	INTERGENIC		
SNP_55310_A_31322239	NC_021166.1	Ca_Kabuli_Chr07	31322239	CC	TT	TT	INTERGENIC		
SNP_55311_A_31329775	NC_021166.1	Ca_Kabuli_Chr07	31329775	AA	GG	GG	DRR	101493267	inositol oxygenase 1-like
SNP_55312_A_31330217	NC_021166.1	Ca_Kabuli_Chr07	31330217	TT	GG	GG	INTRON	101493267	inositol oxygenase 1-like
SNP_55313_A_31330252	NC_021166.1	Ca_Kabuli_Chr07	31330252	TT	GG	GG	INTRON	101493267	inositol oxygenase 1-like
SNP_55314_A_31330267	NC_021166.1	Ca_Kabuli_Chr07	31330267	AA	GG	GG	INTRON	101493267	inositol oxygenase 1-like
SNP_55315_A_31330300	NC_021166.1	Ca_Kabuli_Chr07	31330300	GG	AA	AA	INTRON	101493267	inositol oxygenase 1-like
SNP_55317_A_31332209	NC_021166.1	Ca_Kabuli_Chr07	31332209	TT	AA	AA	INTRON	101493267	inositol oxygenase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55318_A_31332354	NC_021166.1	Ca_Kabuli_Chr07	31332354	TT	AA	AA	INTRON	101493267	inositol oxygenase 1-like
SNP_55319_A_31332361	NC_021166.1	Ca_Kabuli_Chr07	31332361	GG	AA	AA	INTRON	101493267	inositol oxygenase 1-like
SNP_55320_A_31332362	NC_021166.1	Ca_Kabuli_Chr07	31332362	CC	TT	TT	INTRON	101493267	inositol oxygenase 1-like
SNP_55321_A_31333402	NC_021166.1	Ca_Kabuli_Chr07	31333402	TT	AA	AA	INTRON	101493267	inositol oxygenase 1-like
SNP_55322_A_31333502	NC_021166.1	Ca_Kabuli_Chr07	31333502	TT	GG	GG	INTRON	101493267	inositol oxygenase 1-like
SNP_55323_A_31333713	NC_021166.1	Ca_Kabuli_Chr07	31333713	CC	TT	TT	INTRON	101493267	inositol oxygenase 1-like
SNP_55324_A_31334326	NC_021166.1	Ca_Kabuli_Chr07	31334326	TT	CC	CC	URR	101493267	inositol oxygenase 1-like
SNP_55325_A_31334571	NC_021166.1	Ca_Kabuli_Chr07	31334571	CC	AA	AA	URR	101493267	inositol oxygenase 1-like
SNP_55327_A_31335548	NC_021166.1	Ca_Kabuli_Chr07	31335548	CC	TT	TT	URR	101493267	inositol oxygenase 1-like
SNP_55328_A_31335624	NC_021166.1	Ca_Kabuli_Chr07	31335624	CC	TT	TT	URR	101493267	inositol oxygenase 1-like
SNP_55329_A_31335688	NC_021166.1	Ca_Kabuli_Chr07	31335688	GG	AA	AA	URR	101493267	inositol oxygenase 1-like
SNP_55330_A_31335823	NC_021166.1	Ca_Kabuli_Chr07	31335823	TT	AA	AA	URR	101493267	inositol oxygenase 1-like
SNP_55331_A_31337821	NC_021166.1	Ca_Kabuli_Chr07	31337821	AA	TT	TT	INTERGENIC		
SNP_55332_A_31337827	NC_021166.1	Ca_Kabuli_Chr07	31337827	TT	AA	AA	INTERGENIC		
SNP_55333_A_31337864	NC_021166.1	Ca_Kabuli_Chr07	31337864	GG	AA	AA	INTERGENIC		
SNP_55334_A_31340753	NC_021166.1	Ca_Kabuli_Chr07	31340753	CC	TT	TT	INTERGENIC		
SNP_55335_A_31342532	NC_021166.1	Ca_Kabuli_Chr07	31342532	TT	AA	AA	DRR	101493587	pentatricopeptide repeat-containing protein At4g26680, mitochondrial
SNP_55336_A_31343832	NC_021166.1	Ca_Kabuli_Chr07	31343832	CC	TT	TT	URR	101493904	mediator of RNA polymerase II transcription subunit 6
SNP_55337_A_31345329	NC_021166.1	Ca_Kabuli_Chr07	31345329	AA	GG	GG	DRR	101494735	glucose-6-phosphate 1-dehydrogenase, chloroplastic
SNP_55338_A_31346031	NC_021166.1	Ca_Kabuli_Chr07	31346031	CC	TT	TT	URR	101493587	pentatricopeptide repeat-containing protein At4g26680, mitochondrial
SNP_55339_A_31352182	NC_021166.1	Ca_Kabuli_Chr07	31352182	TT	CC	CC	DRR	101494417	vacuolar protein sorting-associated protein 26B
SNP_55341_A_31352740	NC_021166.1	Ca_Kabuli_Chr07	31352740	CC	AA	AA	URR	101494735	glucose-6-phosphate 1-dehydrogenase, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55342_A_31357140	NC_021166.1	Ca_Kabuli_Chr07	31357140	AA	TT	TT	INTRON	101494417	vacuolar protein sorting-associated protein 26B
SNP_55344_A_31360298	NC_021166.1	Ca_Kabuli_Chr07	31360298	GG	AA	AA	INTERGENIC		
SNP_55345_A_31360676	NC_021166.1	Ca_Kabuli_Chr07	31360676	CC	TT	TT	URR	101494417	vacuolar protein sorting-associated protein 26B
SNP_55346_A_31360678	NC_021166.1	Ca_Kabuli_Chr07	31360678	AA	TT	TT	URR	101494417	vacuolar protein sorting-associated protein 26B
SNP_55347_A_31361490	NC_021166.1	Ca_Kabuli_Chr07	31361490	CC	AA	AA	URR	101494417	vacuolar protein sorting-associated protein 26B
SNP_55348_A_31361713	NC_021166.1	Ca_Kabuli_Chr07	31361713	CC	TT	TT	URR	101494417	vacuolar protein sorting-associated protein 26B
SNP_55350_A_31363142	NC_021166.1	Ca_Kabuli_Chr07	31363142	CC	TT	TT	INTERGENIC		
SNP_55351_A_31363168	NC_021166.1	Ca_Kabuli_Chr07	31363168	GG	TT	TT	INTERGENIC		
SNP_55352_A_31366089	NC_021166.1	Ca_Kabuli_Chr07	31366089	CC	TT	TT	INTRON	101495062	transcription factor bHLH87-like
SNP_55353_A_31366307	NC_021166.1	Ca_Kabuli_Chr07	31366307	AA	TT	TT	INTRON	101495062	transcription factor bHLH87-like
SNP_55354_A_31366340	NC_021166.1	Ca_Kabuli_Chr07	31366340	TT	CC	CC	INTRON	101495062	transcription factor bHLH87-like
SNP_55355_A_31367441	NC_021166.1	Ca_Kabuli_Chr07	31367441	GG	CC	CC	URR	101495062	transcription factor bHLH87-like
SNP_55356_A_31369307	NC_021166.1	Ca_Kabuli_Chr07	31369307	CC	AA	AA	INTERGENIC		
SNP_55357_A_31371977	NC_021166.1	Ca_Kabuli_Chr07	31371977	TT	CC	CC	INTERGENIC		
SNP_55358_A_31371981	NC_021166.1	Ca_Kabuli_Chr07	31371981	GG	AA	AA	INTERGENIC		
SNP_55359_A_31372839	NC_021166.1	Ca_Kabuli_Chr07	31372839	CC	TT	TT	INTERGENIC		
SNP_55360_A_31373123	NC_021166.1	Ca_Kabuli_Chr07	31373123	TT	AA	AA	INTERGENIC		
SNP_55361_A_31373132	NC_021166.1	Ca_Kabuli_Chr07	31373132	TT	AA	AA	INTERGENIC		
SNP_55362_A_31373214	NC_021166.1	Ca_Kabuli_Chr07	31373214	TT	AA	AA	INTERGENIC		
SNP_55363_A_31373669	NC_021166.1	Ca_Kabuli_Chr07	31373669	CC	GG	GG	INTERGENIC		
SNP_55364_A_31374102	NC_021166.1	Ca_Kabuli_Chr07	31374102	GG	TT	TT	INTERGENIC		
SNP_55365_A_31374120	NC_021166.1	Ca_Kabuli_Chr07	31374120	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55367_A_31377344	NC_021166.1	Ca_Kabuli_Chr07	31377344	AA	CC	CC	INTERGENIC			
SNP_55368_A_31378402	NC_021166.1	Ca_Kabuli_Chr07	31378402	AA	TT	TT	INTERGENIC			
SNP_55369_A_31378840	NC_021166.1	Ca_Kabuli_Chr07	31378840	CC	TT	TT	INTERGENIC			
SNP_55370_A_31384212	NC_021166.1	Ca_Kabuli_Chr07	31384212	AA	TT	TT	INTERGENIC			
SNP_55371_A_31384415	NC_021166.1	Ca_Kabuli_Chr07	31384415	TT	GG	GG	INTERGENIC			
SNP_55373_A_31384999	NC_021166.1	Ca_Kabuli_Chr07	31384999	AA	TT	TT	INTERGENIC			
SNP_55374_A_31389929	NC_021166.1	Ca_Kabuli_Chr07	31389929	GG	AA	AA	INTERGENIC			
SNP_55376_A_31399554	NC_021166.1	Ca_Kabuli_Chr07	31399554	TT	AA	AA	DRR	101495393	protein EARLY FLOWERING 3	
SNP_55377_A_31416938	NC_021166.1	Ca_Kabuli_Chr07	31416938	AA	GG	GG	DRR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55378_A_31416942	NC_021166.1	Ca_Kabuli_Chr07	31416942	TT	CC	CC	DRR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55379_A_31422132	NC_021166.1	Ca_Kabuli_Chr07	31422132	AA	TT	TT	URR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55380_A_31422143	NC_021166.1	Ca_Kabuli_Chr07	31422143	AA	TT	TT	URR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55381_A_31422145	NC_021166.1	Ca_Kabuli_Chr07	31422145	AA	CC	CC	URR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55382_A_31422150	NC_021166.1	Ca_Kabuli_Chr07	31422150	CC	AA	AA	URR	101496481	IAA-amino acid hydrolase ILR1-like 4	
SNP_55383_A_31444308	NC_021166.1	Ca_Kabuli_Chr07	31444308	AA	GG	GG	URR	101497471	uncharacterized protein At1g51745	
SNP_55384_A_31500300	NC_021166.1	Ca_Kabuli_Chr07	31500300	GG	AA	AA	DRR	101499834	ubiquitin carboxyl-terminal hydrolase 6-like	
SNP_55385_A_31520102	NC_021166.1	Ca_Kabuli_Chr07	31520102	GG	AA	AA	INTERGENIC			
SNP_55386_A_31647472	NC_021166.1	Ca_Kabuli_Chr07	31647472	TT	CC	CC	INTERGENIC			
SNP_55387_A_31652658	NC_021166.1	Ca_Kabuli_Chr07	31652658	TT	GG	GG	INTERGENIC			
SNP_55388_A_31658194	NC_021166.1	Ca_Kabuli_Chr07	31658194	CC	TT	TT	INTERGENIC			
SNP_55389_A_31728629	NC_021166.1	Ca_Kabuli_Chr07	31728629	TT	CC	CC	URR	101505609	3-epi-6-deoxocathasterone 23-monooxygenase	
SNP_55392_A_31824747	NC_021166.1	Ca_Kabuli_Chr07	31824747	GG	AA	AA	DRR	101508179	receptor-like serine/threonine-protein kinase ALE2	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55393_A_31838883	NC_021166.1	Ca_Kabuli_Chr07	31838883	TT	AA	AA	INTERGENIC		
SNP_55396_A_31968224	NC_021166.1	Ca_Kabuli_Chr07	31968224	TT	GG	GG	INTRON	101488371	uncharacterized LOC101488371
SNP_55397_A_31994961	NC_021166.1	Ca_Kabuli_Chr07	31994961	TT	AA	AA	URR	101514848	EPIDERMAL PATTERNING FACTOR-like protein 3
SNP_55398_A_31998622	NC_021166.1	Ca_Kabuli_Chr07	31998622	CC	AA	AA	INTERGENIC		
SNP_55399_A_31999008	NC_021166.1	Ca_Kabuli_Chr07	31999008	CC	TT	TT	INTERGENIC		
SNP_55400_A_32017015	NC_021166.1	Ca_Kabuli_Chr07	32017015	TT	CC	CC	INTERGENIC		
SNP_55401_A_32022676	NC_021166.1	Ca_Kabuli_Chr07	32022676	CC	GG	GG	INTERGENIC		
SNP_55403_A_32173945	NC_021166.1	Ca_Kabuli_Chr07	32173945	CC	TT	TT	INTERGENIC		
SNP_55404_A_32267254	NC_021166.1	Ca_Kabuli_Chr07	32267254	CC	TT	TT	DRR	101494011	midasin
SNP_55405_A_32357400	NC_021166.1	Ca_Kabuli_Chr07	32357400	CC	TT	TT	INTERGENIC		
SNP_55406_A_32357402	NC_021166.1	Ca_Kabuli_Chr07	32357402	GG	CC	CC	INTERGENIC		
SNP_55407_A_32357440	NC_021166.1	Ca_Kabuli_Chr07	32357440	TT	CC	CC	INTERGENIC		
SNP_55408_A_32357447	NC_021166.1	Ca_Kabuli_Chr07	32357447	AA	GG	GG	INTERGENIC		
SNP_55409_A_32357651	NC_021166.1	Ca_Kabuli_Chr07	32357651	GG	AA	AA	INTERGENIC		
SNP_55410_A_32357672	NC_021166.1	Ca_Kabuli_Chr07	32357672	TT	GG	GG	INTERGENIC		
SNP_55411_A_32357684	NC_021166.1	Ca_Kabuli_Chr07	32357684	CC	AA	AA	INTERGENIC		
SNP_55412_A_32357857	NC_021166.1	Ca_Kabuli_Chr07	32357857	AA	GG	GG	INTERGENIC		
SNP_55413_A_32358254	NC_021166.1	Ca_Kabuli_Chr07	32358254	AA	GG	GG	INTERGENIC		
SNP_55414_A_32358270	NC_021166.1	Ca_Kabuli_Chr07	32358270	AA	GG	GG	INTERGENIC		
SNP_55416_A_32490764	NC_021166.1	Ca_Kabuli_Chr07	32490764	AA	CC	CC	INTRON	101499439	putative disease resistance protein At4g11170
SNP_55417_A_32513344	NC_021166.1	Ca_Kabuli_Chr07	32513344	GG	AA	AA	INTERGENIC		
SNP_55418_A_32529371	NC_021166.1	Ca_Kabuli_Chr07	32529371	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55419_A_32567949	NC_021166.1	Ca_Kabuli_Chr07	32567949	AA	CC	CC	SYNONYMOUS_CODING	101492604	protein FAR1-RELATED SEQUENCE 5-like
SNP_55420_A_32578830	NC_021166.1	Ca_Kabuli_Chr07	32578830	TT	CC	CC	INTERGENIC		
SNP_55421_A_32578844	NC_021166.1	Ca_Kabuli_Chr07	32578844	CC	GG	GG	INTERGENIC		
SNP_55422_A_32601283	NC_021166.1	Ca_Kabuli_Chr07	32601283	AA	GG	GG	INTRON	101502504	calumenin-B-like
SNP_55423_A_32601322	NC_021166.1	Ca_Kabuli_Chr07	32601322	GG	CC	CC	INTRON	101502504	calumenin-B-like
SNP_55425_A_32601528	NC_021166.1	Ca_Kabuli_Chr07	32601528	GG	CC	CC	INTRON	101502504	calumenin-B-like
SNP_55426_A_32601736	NC_021166.1	Ca_Kabuli_Chr07	32601736	TT	AA	AA	INTRON	101502504	calumenin-B-like
SNP_55428_A_32614174	NC_021166.1	Ca_Kabuli_Chr07	32614174	CC	AA	AA	DRR	101493588	Unknown function
SNP_55430_A_32614263	NC_021166.1	Ca_Kabuli_Chr07	32614263	GG	TT	TT	DRR	101493588	Unknown function
SNP_55431_A_32628591	NC_021166.1	Ca_Kabuli_Chr07	32628591	TT	CC	CC	INTERGENIC		
SNP_55432_A_32632415	NC_021166.1	Ca_Kabuli_Chr07	32632415	GG	AA	AA	URR	101493905	mucin-2-like
SNP_55433_A_32632959	NC_021166.1	Ca_Kabuli_Chr07	32632959	TT	GG	GG	URR	101493905	mucin-2-like
SNP_55434_A_32633865	NC_021166.1	Ca_Kabuli_Chr07	32633865	GG	CC	CC	URR	101493905	mucin-2-like
SNP_55435_A_32635356	NC_021166.1	Ca_Kabuli_Chr07	32635356	GG	TT	TT	INTERGENIC		
SNP_55436_A_32635829	NC_021166.1	Ca_Kabuli_Chr07	32635829	AA	CC	CC	INTERGENIC		
SNP_55437_A_32635848	NC_021166.1	Ca_Kabuli_Chr07	32635848	GG	TT	TT	INTERGENIC		
SNP_55438_A_32636988	NC_021166.1	Ca_Kabuli_Chr07	32636988	CC	AA	AA	INTERGENIC		
SNP_55439_A_32638645	NC_021166.1	Ca_Kabuli_Chr07	32638645	TT	AA	AA	INTERGENIC		
SNP_55440_A_32639461	NC_021166.1	Ca_Kabuli_Chr07	32639461	CC	GG	GG	INTERGENIC		
SNP_55441_A_32639812	NC_021166.1	Ca_Kabuli_Chr07	32639812	CC	TT	TT	INTERGENIC		
SNP_55442_A_32639845	NC_021166.1	Ca_Kabuli_Chr07	32639845	AA	TT	TT	INTERGENIC		
SNP_55443_A_32639858	NC_021166.1	Ca_Kabuli_Chr07	32639858	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55444_A_32639871	NC_021166.1	Ca_Kabuli_Chr07	32639871	AA	GG	GG	INTERGENIC		
SNP_55445_A_32649346	NC_021166.1	Ca_Kabuli_Chr07	32649346	CC	TT	TT	INTRON	101501961	calumenin-like
SNP_55447_A_32649733	NC_021166.1	Ca_Kabuli_Chr07	32649733	GG	AA	AA	INTERGENIC		
SNP_55449_A_32650629	NC_021166.1	Ca_Kabuli_Chr07	32650629	GG	AA	AA	INTERGENIC		
SNP_55450_A_32653143	NC_021166.1	Ca_Kabuli_Chr07	32653143	AA	GG	GG	INTERGENIC		
SNP_55451_A_32653178	NC_021166.1	Ca_Kabuli_Chr07	32653178	CC	TT	TT	INTERGENIC		
SNP_55453_A_32653204	NC_021166.1	Ca_Kabuli_Chr07	32653204	GG	AA	AA	INTERGENIC		
SNP_55454_A_32654139	NC_021166.1	Ca_Kabuli_Chr07	32654139	AA	CC	CC	INTERGENIC		
SNP_55455_A_32654357	NC_021166.1	Ca_Kabuli_Chr07	32654357	AA	TT	TT	INTERGENIC		
SNP_55459_A_32694518	NC_021166.1	Ca_Kabuli_Chr07	32694518	TT	CC	CC	INTERGENIC		
SNP_55460_A_32774517	NC_021166.1	Ca_Kabuli_Chr07	32774517	TT	AA	AA	INTRON	101505282	transcription initiation factor TFIID subunit 12b
SNP_55461_A_32814053	NC_021166.1	Ca_Kabuli_Chr07	32814053	CC	GG	GG	INTERGENIC		
SNP_55462_A_32814072	NC_021166.1	Ca_Kabuli_Chr07	32814072	AA	TT	TT	INTERGENIC		
SNP_55463_A_32820610	NC_021166.1	Ca_Kabuli_Chr07	32820610	CC	AA	AA	INTERGENIC		
SNP_55464_A_32838307	NC_021166.1	Ca_Kabuli_Chr07	32838307	AA	TT	TT	DRR	101506805	pollen-specific leucine-rich repeat extensin-like protein 3
SNP_55465_A_32974415	NC_021166.1	Ca_Kabuli_Chr07	32974415	AA	GG	GG	INTERGENIC		
SNP_55466_A_32974450	NC_021166.1	Ca_Kabuli_Chr07	32974450	AA	GG	GG	INTERGENIC		
SNP_55467_A_33003958	NC_021166.1	Ca_Kabuli_Chr07	33003958	GG	AA	AA	DRR	101511721	flavonoid 3'-monooxygenase-like
SNP_55468_A_33049345	NC_021166.1	Ca_Kabuli_Chr07	33049345	AA	CC	CC	INTERGENIC		
SNP_55469_A_33050339	NC_021166.1	Ca_Kabuli_Chr07	33050339	TT	CC	CC	INTERGENIC		
SNP_55470_A_33054085	NC_021166.1	Ca_Kabuli_Chr07	33054085	CC	AA	AA	INTERGENIC		
SNP_55471_A_33054217	NC_021166.1	Ca_Kabuli_Chr07	33054217	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55472_A_33054400	NC_021166.1	Ca_Kabuli_Chr07	33054400	AA	GG	GG	INTERGENIC			
SNP_55473_A_33054609	NC_021166.1	Ca_Kabuli_Chr07	33054609	CC	AA	AA	INTERGENIC			
SNP_55474_A_33054636	NC_021166.1	Ca_Kabuli_Chr07	33054636	CC	TT	TT	INTERGENIC			
SNP_55475_A_33055476	NC_021166.1	Ca_Kabuli_Chr07	33055476	AA	TT	TT	INTERGENIC			
SNP_55477_A_33055658	NC_021166.1	Ca_Kabuli_Chr07	33055658	GG	AA	AA	INTERGENIC			
SNP_55478_A_33057894	NC_021166.1	Ca_Kabuli_Chr07	33057894	GG	AA	AA	INTERGENIC			
SNP_55479_A_33058199	NC_021166.1	Ca_Kabuli_Chr07	33058199	AA	CC	CC	INTERGENIC			
SNP_55480_A_33058477	NC_021166.1	Ca_Kabuli_Chr07	33058477	TT	AA	AA	INTERGENIC			
SNP_55481_A_33058497	NC_021166.1	Ca_Kabuli_Chr07	33058497	GG	AA	AA	INTERGENIC			
SNP_55482_A_33059260	NC_021166.1	Ca_Kabuli_Chr07	33059260	GG	TT	TT	INTERGENIC			
SNP_55483_A_33059275	NC_021166.1	Ca_Kabuli_Chr07	33059275	TT	CC	CC	INTERGENIC			
SNP_55484_A_33059322	NC_021166.1	Ca_Kabuli_Chr07	33059322	TT	AA	AA	INTERGENIC			
SNP_55485_A_33059738	NC_021166.1	Ca_Kabuli_Chr07	33059738	GG	AA	AA	INTERGENIC			
SNP_55486_A_33059768	NC_021166.1	Ca_Kabuli_Chr07	33059768	AA	CC	CC	INTERGENIC			
SNP_55487_A_33061651	NC_021166.1	Ca_Kabuli_Chr07	33061651	AA	TT	TT	URR	101512363	uncharacterized LOC101512363	
SNP_55488_A_33061912	NC_021166.1	Ca_Kabuli_Chr07	33061912	CC	AA	AA	URR	101512363	uncharacterized LOC101512363	
SNP_55490_A_33062907	NC_021166.1	Ca_Kabuli_Chr07	33062907	CC	TT	TT	URR	101512363	uncharacterized LOC101512363	
SNP_55491_A_33065414	NC_021166.1	Ca_Kabuli_Chr07	33065414	AA	TT	TT	INTERGENIC			
SNP_55492_A_33065416	NC_021166.1	Ca_Kabuli_Chr07	33065416	GG	AA	AA	INTERGENIC			
SNP_55493_A_33066532	NC_021166.1	Ca_Kabuli_Chr07	33066532	AA	CC	CC	INTERGENIC			
SNP_55494_A_33066824	NC_021166.1	Ca_Kabuli_Chr07	33066824	TT	GG	GG	INTERGENIC			
SNP_55495_A_33066831	NC_021166.1	Ca_Kabuli_Chr07	33066831	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55496_A_33066834	NC_021166.1	Ca_Kabuli_Chr07	33066834	GG	AA	AA	INTERGENIC			
SNP_55497_A_33066861	NC_021166.1	Ca_Kabuli_Chr07	33066861	GG	AA	AA	INTERGENIC			
SNP_55498_A_33067033	NC_021166.1	Ca_Kabuli_Chr07	33067033	GG	AA	AA	INTERGENIC			
SNP_55499_A_33067399	NC_021166.1	Ca_Kabuli_Chr07	33067399	AA	GG	GG	INTERGENIC			
SNP_55500_A_33067545	NC_021166.1	Ca_Kabuli_Chr07	33067545	GG	AA	AA	INTERGENIC			
SNP_55502_A_33068236	NC_021166.1	Ca_Kabuli_Chr07	33068236	AA	GG	GG	INTERGENIC			
SNP_55503_A_33068493	NC_021166.1	Ca_Kabuli_Chr07	33068493	CC	TT	TT	INTERGENIC			
SNP_55505_A_33069181	NC_021166.1	Ca_Kabuli_Chr07	33069181	CC	TT	TT	INTERGENIC			
SNP_55506_A_33070518	NC_021166.1	Ca_Kabuli_Chr07	33070518	TT	AA	AA	INTERGENIC			
SNP_55507_A_33070970	NC_021166.1	Ca_Kabuli_Chr07	33070970	GG	CC	CC	INTERGENIC			
SNP_55508_A_33070980	NC_021166.1	Ca_Kabuli_Chr07	33070980	TT	AA	AA	INTERGENIC			
SNP_55509_A_33071297	NC_021166.1	Ca_Kabuli_Chr07	33071297	CC	AA	AA	INTERGENIC			
SNP_55510_A_33073104	NC_021166.1	Ca_Kabuli_Chr07	33073104	TT	CC	CC	INTERGENIC			
SNP_55511_A_33073177	NC_021166.1	Ca_Kabuli_Chr07	33073177	CC	TT	TT	INTERGENIC			
SNP_55512_A_33073232	NC_021166.1	Ca_Kabuli_Chr07	33073232	TT	CC	CC	INTERGENIC			
SNP_55513_A_33101347	NC_021166.1	Ca_Kabuli_Chr07	33101347	TT	CC	CC	INTERGENIC			
SNP_55514_A_33101497	NC_021166.1	Ca_Kabuli_Chr07	33101497	TT	GG	GG	INTERGENIC			
SNP_55516_A_33102909	NC_021166.1	Ca_Kabuli_Chr07	33102909	TT	CC	CC	INTERGENIC			
SNP_55517_A_33102939	NC_021166.1	Ca_Kabuli_Chr07	33102939	CC	TT	TT	INTERGENIC			
SNP_55518_A_33102950	NC_021166.1	Ca_Kabuli_Chr07	33102950	TT	CC	CC	INTERGENIC			
SNP_55519_A_33107162	NC_021166.1	Ca_Kabuli_Chr07	33107162	GG	AA	AA	INTERGENIC			
SNP_55520_A_33107333	NC_021166.1	Ca_Kabuli_Chr07	33107333	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55521_A_33107334	NC_021166.1	Ca_Kabuli_Chr07	33107334	GG	AA	AA	INTERGENIC		
SNP_55522_A_33107355	NC_021166.1	Ca_Kabuli_Chr07	33107355	AA	TT	TT	INTERGENIC		
SNP_55523_A_33113027	NC_021166.1	Ca_Kabuli_Chr07	33113027	GG	AA	AA	INTRON	101496482	microtubule-associated protein 70-2-like
SNP_55524_A_33113031	NC_021166.1	Ca_Kabuli_Chr07	33113031	AA	CC	CC	INTRON	101496482	microtubule-associated protein 70-2-like
SNP_55525_A_33116026	NC_021166.1	Ca_Kabuli_Chr07	33116026	AA	GG	GG	INTERGENIC		
SNP_55526_A_33117179	NC_021166.1	Ca_Kabuli_Chr07	33117179	TT	GG	GG	INTERGENIC		
SNP_55527_A_33117182	NC_021166.1	Ca_Kabuli_Chr07	33117182	TT	GG	GG	INTERGENIC		
SNP_55528_A_33117191	NC_021166.1	Ca_Kabuli_Chr07	33117191	AA	TT	TT	INTERGENIC		
SNP_55529_A_33117198	NC_021166.1	Ca_Kabuli_Chr07	33117198	AA	CC	CC	INTERGENIC		
SNP_55530_A_33117833	NC_021166.1	Ca_Kabuli_Chr07	33117833	GG	AA	AA	INTERGENIC		
SNP_55531_A_33120700	NC_021166.1	Ca_Kabuli_Chr07	33120700	TT	CC	CC	URR	101496482	microtubule-associated protein 70-2-like
SNP_55532_A_33124163	NC_021166.1	Ca_Kabuli_Chr07	33124163	AA	CC	CC	URR	101496818	subtilisin-like protease SBT1.7
SNP_55533_A_33125714	NC_021166.1	Ca_Kabuli_Chr07	33125714	AA	GG	GG	INTERGENIC		
SNP_55534_A_33127362	NC_021166.1	Ca_Kabuli_Chr07	33127362	AA	GG	GG	INTERGENIC		
SNP_55535_A_33127462	NC_021166.1	Ca_Kabuli_Chr07	33127462	AA	GG	GG	INTERGENIC		
SNP_55536_A_33127626	NC_021166.1	Ca_Kabuli_Chr07	33127626	GG	CC	CC	INTERGENIC		
SNP_55537_A_33143611	NC_021166.1	Ca_Kabuli_Chr07	33143611	TT	CC	CC	INTERGENIC		
SNP_55538_A_33144344	NC_021166.1	Ca_Kabuli_Chr07	33144344	AA	GG	GG	INTERGENIC		
SNP_55539_A_33144374	NC_021166.1	Ca_Kabuli_Chr07	33144374	AA	GG	GG	INTERGENIC		
SNP_55540_A_33144404	NC_021166.1	Ca_Kabuli_Chr07	33144404	TT	CC	CC	INTERGENIC		
SNP_55541_A_33144410	NC_021166.1	Ca_Kabuli_Chr07	33144410	AA	GG	GG	INTERGENIC		
SNP_55542_A_33144424	NC_021166.1	Ca_Kabuli_Chr07	33144424	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55543_A_33144760	NC_021166.1	Ca_Kabuli_Chr07	33144760	AA	GG	GG	INTERGENIC			
SNP_55544_A_33146241	NC_021166.1	Ca_Kabuli_Chr07	33146241	CC	TT	TT	INTERGENIC			
SNP_55545_A_33146284	NC_021166.1	Ca_Kabuli_Chr07	33146284	AA	GG	GG	INTERGENIC			
SNP_55546_A_33146328	NC_021166.1	Ca_Kabuli_Chr07	33146328	AA	GG	GG	INTERGENIC			
SNP_55547_A_33146336	NC_021166.1	Ca_Kabuli_Chr07	33146336	TT	CC	CC	INTERGENIC			
SNP_55548_A_33146574	NC_021166.1	Ca_Kabuli_Chr07	33146574	TT	AA	AA	INTERGENIC			
SNP_55549_A_33146592	NC_021166.1	Ca_Kabuli_Chr07	33146592	AA	GG	GG	INTERGENIC			
SNP_55550_A_33147215	NC_021166.1	Ca_Kabuli_Chr07	33147215	AA	GG	GG	INTERGENIC			
SNP_55551_A_33147361	NC_021166.1	Ca_Kabuli_Chr07	33147361	AA	CC	CC	INTERGENIC			
SNP_55552_A_33147436	NC_021166.1	Ca_Kabuli_Chr07	33147436	TT	CC	CC	INTERGENIC			
SNP_55553_A_33147682	NC_021166.1	Ca_Kabuli_Chr07	33147682	TT	CC	CC	INTERGENIC			
SNP_55554_A_33149291	NC_021166.1	Ca_Kabuli_Chr07	33149291	CC	TT	TT	INTERGENIC			
SNP_55555_A_33149613	NC_021166.1	Ca_Kabuli_Chr07	33149613	GG	AA	AA	INTERGENIC			
SNP_55556_A_33156422	NC_021166.1	Ca_Kabuli_Chr07	33156422	CC	TT	TT	INTERGENIC			
SNP_55557_A_33157550	NC_021166.1	Ca_Kabuli_Chr07	33157550	AA	GG	GG	INTERGENIC			
SNP_55558_A_33157596	NC_021166.1	Ca_Kabuli_Chr07	33157596	TT	CC	CC	INTERGENIC			
SNP_55559_A_33157623	NC_021166.1	Ca_Kabuli_Chr07	33157623	GG	AA	AA	INTERGENIC			
SNP_55560_A_33157841	NC_021166.1	Ca_Kabuli_Chr07	33157841	AA	GG	GG	INTERGENIC			
SNP_55561_A_33158097	NC_021166.1	Ca_Kabuli_Chr07	33158097	GG	CC	CC	INTERGENIC			
SNP_55562_A_33160158	NC_021166.1	Ca_Kabuli_Chr07	33160158	TT	CC	CC	DRR	101498004	uncharacterized LOC101498004	
SNP_55563_A_33160245	NC_021166.1	Ca_Kabuli_Chr07	33160245	CC	AA	AA	NON_SYNONYMOUS_CODING	101498004	uncharacterized LOC101498004	
SNP_55564_A_33171949	NC_021166.1	Ca_Kabuli_Chr07	33171949	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55566_A_33172505	NC_021166.1	Ca_Kabuli_Chr07	33172505	TT	CC	CC	INTERGENIC		
SNP_55566_A_33174178	NC_021166.1	Ca_Kabuli_Chr07	33174178	CC	TT	TT	INTERGENIC		
SNP_55567_A_33176504	NC_021166.1	Ca_Kabuli_Chr07	33176504	AA	GG	GG	INTERGENIC		
SNP_55568_A_33176510	NC_021166.1	Ca_Kabuli_Chr07	33176510	CC	TT	TT	INTERGENIC		
SNP_55569_A_33185925	NC_021166.1	Ca_Kabuli_Chr07	33185925	TT	CC	CC	SYNONYMOUS_CODING	101498678	uncharacterized LOC101498678
SNP_55570_A_33188196	NC_021166.1	Ca_Kabuli_Chr07	33188196	GG	AA	AA	URR	101498678	uncharacterized LOC101498678
SNP_55571_A_33188243	NC_021166.1	Ca_Kabuli_Chr07	33188243	CC	TT	TT	URR	101498678	uncharacterized LOC101498678
SNP_55572_A_33188538	NC_021166.1	Ca_Kabuli_Chr07	33188538	GG	AA	AA	URR	101498678	uncharacterized LOC101498678
SNP_55573_A_33189893	NC_021166.1	Ca_Kabuli_Chr07	33189893	GG	AA	AA	INTERGENIC		
SNP_55574_A_33191973	NC_021166.1	Ca_Kabuli_Chr07	33191973	CC	AA	AA	INTERGENIC		
SNP_55575_A_33192833	NC_021166.1	Ca_Kabuli_Chr07	33192833	GG	AA	AA	INTERGENIC		
SNP_55576_A_33193057	NC_021166.1	Ca_Kabuli_Chr07	33193057	CC	TT	TT	INTERGENIC		
SNP_55577_A_33193063	NC_021166.1	Ca_Kabuli_Chr07	33193063	GG	AA	AA	INTERGENIC		
SNP_55578_A_33193954	NC_021166.1	Ca_Kabuli_Chr07	33193954	GG	AA	AA	INTERGENIC		
SNP_55579_A_33193962	NC_021166.1	Ca_Kabuli_Chr07	33193962	CC	TT	TT	INTERGENIC		
SNP_55580_A_33196851	NC_021166.1	Ca_Kabuli_Chr07	33196851	CC	TT	TT	INTERGENIC		
SNP_55581_A_33197000	NC_021166.1	Ca_Kabuli_Chr07	33197000	CC	TT	TT	INTERGENIC		
SNP_55582_A_33197165	NC_021166.1	Ca_Kabuli_Chr07	33197165	CC	GG	GG	INTERGENIC		
SNP_55583_A_33197183	NC_021166.1	Ca_Kabuli_Chr07	33197183	TT	CC	CC	INTERGENIC		
SNP_55584_A_33209235	NC_021166.1	Ca_Kabuli_Chr07	33209235	TT	AA	AA	INTERGENIC		
SNP_55585_A_33211030	NC_021166.1	Ca_Kabuli_Chr07	33211030	GG	CC	CC	INTERGENIC		
SNP_55586_A_33211033	NC_021166.1	Ca_Kabuli_Chr07	33211033	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55588_A_33211105	NC_021166.1	Ca_Kabuli_Chr07	33211105	GG	AA	AA	INTERGENIC		
SNP_55589_A_33211222	NC_021166.1	Ca_Kabuli_Chr07	33211222	TT	CC	CC	INTERGENIC		
SNP_55590_A_33211232	NC_021166.1	Ca_Kabuli_Chr07	33211232	CC	TT	TT	INTERGENIC		
SNP_55591_A_33211262	NC_021166.1	Ca_Kabuli_Chr07	33211262	CC	TT	TT	INTERGENIC		
SNP_55592_A_33213619	NC_021166.1	Ca_Kabuli_Chr07	33213619	AA	TT	TT	INTERGENIC		
SNP_55593_A_33216829	NC_021166.1	Ca_Kabuli_Chr07	33216829	CC	AA	AA	INTERGENIC		
SNP_55594_A_33217943	NC_021166.1	Ca_Kabuli_Chr07	33217943	CC	GG	GG	DRR	101499440	uncharacterized LOC101499440
SNP_55595_A_33217946	NC_021166.1	Ca_Kabuli_Chr07	33217946	AA	CC	CC	DRR	101499440	uncharacterized LOC101499440
SNP_55596_A_33218955	NC_021166.1	Ca_Kabuli_Chr07	33218955	TT	CC	CC	INTRON	101499440	uncharacterized LOC101499440
SNP_55597_A_33218957	NC_021166.1	Ca_Kabuli_Chr07	33218957	AA	GG	GG	INTRON	101499440	uncharacterized LOC101499440
SNP_55598_A_33218974	NC_021166.1	Ca_Kabuli_Chr07	33218974	CC	TT	TT	INTRON	101499440	uncharacterized LOC101499440
SNP_55599_A_33220412	NC_021166.1	Ca_Kabuli_Chr07	33220412	CC	TT	TT	INTRON	101499440	uncharacterized LOC101499440
SNP_55600_A_33220811	NC_021166.1	Ca_Kabuli_Chr07	33220811	GG	AA	AA	SYNONYMOUS_CODING	101499440	uncharacterized LOC101499440
SNP_55601_A_33221134	NC_021166.1	Ca_Kabuli_Chr07	33221134	GG	AA	AA	SYNONYMOUS_CODING	101499440	uncharacterized LOC101499440
SNP_55602_A_33230907	NC_021166.1	Ca_Kabuli_Chr07	33230907	GG	AA	AA	URR	101499746	probable nucleoside diphosphate kinase 5
SNP_55603_A_33234746	NC_021166.1	Ca_Kabuli_Chr07	33234746	TT	CC	CC	INTERGENIC		
SNP_55604_A_33234748	NC_021166.1	Ca_Kabuli_Chr07	33234748	CC	GG	GG	INTERGENIC		
SNP_55605_A_33237300	NC_021166.1	Ca_Kabuli_Chr07	33237300	CC	TT	TT	INTERGENIC		
SNP_55607_A_33238264	NC_021166.1	Ca_Kabuli_Chr07	33238264	AA	TT	TT	INTERGENIC		
SNP_55608_A_33238299	NC_021166.1	Ca_Kabuli_Chr07	33238299	AA	GG	GG	INTERGENIC		
SNP_55609_A_33238345	NC_021166.1	Ca_Kabuli_Chr07	33238345	TT	AA	AA	INTERGENIC		
SNP_55610_A_33238492	NC_021166.1	Ca_Kabuli_Chr07	33238492	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55611_A_33239671	NC_021166.1	Ca_Kabuli_Chr07	33239671	AA	GG	GG	INTERGENIC		
SNP_55612_A_33239915	NC_021166.1	Ca_Kabuli_Chr07	33239915	GG	AA	AA	INTERGENIC		
SNP_55613_A_33242654	NC_021166.1	Ca_Kabuli_Chr07	33242654	TT	CC	CC	INTRON	101501332	uncharacterized LOC101501332
SNP_55614_A_33242748	NC_021166.1	Ca_Kabuli_Chr07	33242748	CC	AA	AA	INTRON	101501332	uncharacterized LOC101501332
SNP_55615_A_33243427	NC_021166.1	Ca_Kabuli_Chr07	33243427	TT	GG	GG	INTRON	101501332	uncharacterized LOC101501332
SNP_55616_A_33245793	NC_021166.1	Ca_Kabuli_Chr07	33245793	AA	GG	GG	DRR	101501650	sm-like protein LSM1B
SNP_55617_A_33245942	NC_021166.1	Ca_Kabuli_Chr07	33245942	GG	TT	TT	DRR	101501650	sm-like protein LSM1B
SNP_55618_A_33245954	NC_021166.1	Ca_Kabuli_Chr07	33245954	GG	TT	TT	DRR	101501650	sm-like protein LSM1B
SNP_55620_A_33247972	NC_021166.1	Ca_Kabuli_Chr07	33247972	TT	CC	CC	INTERGENIC		
SNP_55621_A_33249138	NC_021166.1	Ca_Kabuli_Chr07	33249138	TT	CC	CC	INTRON	101501650	sm-like protein LSM1B
SNP_55623_A_33253457	NC_021166.1	Ca_Kabuli_Chr07	33253457	GG	AA	AA	DRR	101502191	transmembrane protein 87A
SNP_55624_A_33253814	NC_021166.1	Ca_Kabuli_Chr07	33253814	CC	TT	TT	DRR	101502191	transmembrane protein 87A
SNP_55625_A_33266440	NC_021166.1	Ca_Kabuli_Chr07	33266440	AA	GG	GG	URR	101502505	exocyst complex component EXO70A1-like
SNP_55626_A_33266451	NC_021166.1	Ca_Kabuli_Chr07	33266451	GG	AA	AA	URR	101502505	exocyst complex component EXO70A1-like
SNP_55627_A_33266949	NC_021166.1	Ca_Kabuli_Chr07	33266949	AA	GG	GG	URR	101502505	exocyst complex component EXO70A1-like
SNP_55628_A_33272213	NC_021166.1	Ca_Kabuli_Chr07	33272213	TT	CC	CC	INTERGENIC		
SNP_55629_A_33273063	NC_021166.1	Ca_Kabuli_Chr07	33273063	TT	CC	CC	INTERGENIC		
SNP_55630_A_33273084	NC_021166.1	Ca_Kabuli_Chr07	33273084	CC	TT	TT	INTERGENIC		
SNP_55631_A_33273308	NC_021166.1	Ca_Kabuli_Chr07	33273308	TT	CC	CC	INTERGENIC		
SNP_55632_A_33273315	NC_021166.1	Ca_Kabuli_Chr07	33273315	CC	TT	TT	INTERGENIC		
SNP_55634_A_33286045	NC_021166.1	Ca_Kabuli_Chr07	33286045	CC	TT	TT	INTRON	101503135	F-box protein SKP2B-like
SNP_55635_A_33286059	NC_021166.1	Ca_Kabuli_Chr07	33286059	CC	AA	AA	INTRON	101503135	F-box protein SKP2B-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55636_A_33286454	NC_021166.1	Ca_Kabuli_Chr07	33286454	CC	AA	AA	INTRON	101503135	F-box protein SKP2B-like
SNP_55637_A_33286498	NC_021166.1	Ca_Kabuli_Chr07	33286498	GG	AA	AA	INTRON	101503135	F-box protein SKP2B-like
SNP_55638_A_33286584	NC_021166.1	Ca_Kabuli_Chr07	33286584	GG	AA	AA	INTRON	101503135	F-box protein SKP2B-like
SNP_55639_A_33286980	NC_021166.1	Ca_Kabuli_Chr07	33286980	AA	GG	GG	INTRON	101503135	F-box protein SKP2B-like
SNP_55640_A_33286996	NC_021166.1	Ca_Kabuli_Chr07	33286996	TT	AA	AA	INTRON	101503135	F-box protein SKP2B-like
SNP_55641_A_33287011	NC_021166.1	Ca_Kabuli_Chr07	33287011	TT	CC	CC	INTRON	101503135	F-box protein SKP2B-like
SNP_55642_A_33287276	NC_021166.1	Ca_Kabuli_Chr07	33287276	GG	AA	AA	INTRON	101503135	F-box protein SKP2B-like
SNP_55643_A_33287395	NC_021166.1	Ca_Kabuli_Chr07	33287395	AA	GG	GG	INTRON	101503135	F-box protein SKP2B-like
SNP_55645_A_33288951	NC_021166.1	Ca_Kabuli_Chr07	33288951	GG	AA	AA	URR	101503135	F-box protein SKP2B-like
SNP_55646_A_33290094	NC_021166.1	Ca_Kabuli_Chr07	33290094	GG	AA	AA	INTERGENIC		
SNP_55647_A_33290097	NC_021166.1	Ca_Kabuli_Chr07	33290097	AA	GG	GG	INTERGENIC		
SNP_55648_A_33290139	NC_021166.1	Ca_Kabuli_Chr07	33290139	AA	CC	CC	INTERGENIC		
SNP_55649_A_33290147	NC_021166.1	Ca_Kabuli_Chr07	33290147	TT	AA	AA	INTERGENIC		
SNP_55650_A_33290257	NC_021166.1	Ca_Kabuli_Chr07	33290257	GG	AA	AA	INTERGENIC		
SNP_55651_A_33290785	NC_021166.1	Ca_Kabuli_Chr07	33290785	GG	CC	CC	INTERGENIC		
SNP_55652_A_33290803	NC_021166.1	Ca_Kabuli_Chr07	33290803	AA	TT	TT	INTERGENIC		
SNP_55653_A_33293350	NC_021166.1	Ca_Kabuli_Chr07	33293350	GG	TT	TT	INTERGENIC		
SNP_55654_A_33293354	NC_021166.1	Ca_Kabuli_Chr07	33293354	GG	AA	AA	INTERGENIC		
SNP_55656_A_33296208	NC_021166.1	Ca_Kabuli_Chr07	33296208	TT	CC	CC	INTERGENIC		
SNP_55658_A_33299068	NC_021166.1	Ca_Kabuli_Chr07	33299068	CC	GG	GG	INTRON	101503456	protein TIFY 11B
SNP_55659_A_33303458	NC_021166.1	Ca_Kabuli_Chr07	33303458	CC	AA	AA	INTERGENIC		
SNP_55660_A_33307380	NC_021166.1	Ca_Kabuli_Chr07	33307380	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55661_A_33326499	NC_021166.1	Ca_Kabuli_Chr07	33326499	TT	CC	CC	INTERGENIC			
SNP_55662_A_33328661	NC_021166.1	Ca_Kabuli_Chr07	33328661	CC	TT	TT	INTERGENIC			
SNP_55663_A_33329144	NC_021166.1	Ca_Kabuli_Chr07	33329144	TT	CC	CC	INTERGENIC			
SNP_55664_A_33329162	NC_021166.1	Ca_Kabuli_Chr07	33329162	GG	TT	TT	INTERGENIC			
SNP_55665_A_33329172	NC_021166.1	Ca_Kabuli_Chr07	33329172	GG	AA	AA	INTERGENIC			
SNP_55667_A_33329405	NC_021166.1	Ca_Kabuli_Chr07	33329405	CC	TT	TT	INTERGENIC			
SNP_55668_A_33329408	NC_021166.1	Ca_Kabuli_Chr07	33329408	AA	GG	GG	INTERGENIC			
SNP_55669_A_33329441	NC_021166.1	Ca_Kabuli_Chr07	33329441	AA	TT	TT	INTERGENIC			
SNP_55670_A_33334743	NC_021166.1	Ca_Kabuli_Chr07	33334743	GG	CC	CC	INTERGENIC			
SNP_55671_A_33335688	NC_021166.1	Ca_Kabuli_Chr07	33335688	CC	TT	TT	INTERGENIC			
SNP_55672_A_33336996	NC_021166.1	Ca_Kabuli_Chr07	33336996	CC	TT	TT	URR	101503795	oligouridylate-binding protein 1B-like	
SNP_55673_A_33338385	NC_021166.1	Ca_Kabuli_Chr07	33338385	TT	AA	AA	DRR	101504116	protein FLUORESCENT IN BLUE LIGHT, chloroplastic	
SNP_55674_A_33338390	NC_021166.1	Ca_Kabuli_Chr07	33338390	CC	GG	GG	DRR	101504116	protein FLUORESCENT IN BLUE LIGHT, chloroplastic	
SNP_55675_A_33338405	NC_021166.1	Ca_Kabuli_Chr07	33338405	AA	GG	GG	DRR	101504116	protein FLUORESCENT IN BLUE LIGHT, chloroplastic	
SNP_55676_A_33338406	NC_021166.1	Ca_Kabuli_Chr07	33338406	CC	TT	TT	DRR	101504116	protein FLUORESCENT IN BLUE LIGHT, chloroplastic	
SNP_55677_A_33338477	NC_021166.1	Ca_Kabuli_Chr07	33338477	AA	GG	GG	INTERGENIC			
SNP_55678_A_33342246	NC_021166.1	Ca_Kabuli_Chr07	33342246	GG	AA	AA	URR	101504116	protein FLUORESCENT IN BLUE LIGHT, chloroplastic	
SNP_55680_A_33344836	NC_021166.1	Ca_Kabuli_Chr07	33344836	GG	AA	AA	URR	101504655	uncharacterized LOC101504655	
SNP_55681_A_33345895	NC_021166.1	Ca_Kabuli_Chr07	33345895	CC	GG	GG	URR	101504655	uncharacterized LOC101504655	
SNP_55682_A_33346008	NC_021166.1	Ca_Kabuli_Chr07	33346008	CC	AA	AA	URR	101504655	uncharacterized LOC101504655	
SNP_55683_A_33346053	NC_021166.1	Ca_Kabuli_Chr07	33346053	TT	AA	AA	URR	101504655	uncharacterized LOC101504655	
SNP_55684_A_33346133	NC_021166.1	Ca_Kabuli_Chr07	33346133	CC	TT	TT	URR	101504655	uncharacterized LOC101504655	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55685_A_33348524	NC_021166.1	Ca_Kabuli_Chr07	33348524	GG	AA	AA	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55686_A_33349798	NC_021166.1	Ca_Kabuli_Chr07	33349798	AA	GG	GG	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55688_A_33355094	NC_021166.1	Ca_Kabuli_Chr07	33355094	AA	GG	GG	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55689_A_33356130	NC_021166.1	Ca_Kabuli_Chr07	33356130	TT	CC	CC	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55690_A_33356139	NC_021166.1	Ca_Kabuli_Chr07	33356139	AA	GG	GG	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55691_A_33356814	NC_021166.1	Ca_Kabuli_Chr07	33356814	GG	TT	TT	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55693_A_33359436	NC_021166.1	Ca_Kabuli_Chr07	33359436	CC	TT	TT	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55694_A_33361617	NC_021166.1	Ca_Kabuli_Chr07	33361617	TT	AA	AA	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55695_A_33364354	NC_021166.1	Ca_Kabuli_Chr07	33364354	GG	AA	AA	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55696_A_33364643	NC_021166.1	Ca_Kabuli_Chr07	33364643	TT	GG	GG	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55697_A_33364712	NC_021166.1	Ca_Kabuli_Chr07	33364712	CC	TT	TT	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55698_A_33364862	NC_021166.1	Ca_Kabuli_Chr07	33364862	GG	AA	AA	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55699_A_33365533	NC_021166.1	Ca_Kabuli_Chr07	33365533	AA	GG	GG	INTRON	101504972	nuclear pore complex protein NUP107
SNP_55700_A_33367778	NC_021166.1	Ca_Kabuli_Chr07	33367778	GG	TT	TT	URR	101504972	nuclear pore complex protein NUP107
SNP_55701_A_33368827	NC_021166.1	Ca_Kabuli_Chr07	33368827	TT	CC	CC	URR	101504972	nuclear pore complex protein NUP107
SNP_55702_A_33369121	NC_021166.1	Ca_Kabuli_Chr07	33369121	CC	TT	TT	URR	101504972	nuclear pore complex protein NUP107
SNP_55703_A_33370914	NC_021166.1	Ca_Kabuli_Chr07	33370914	GG	AA	AA	INTERGENIC		
SNP_55704_A_33370918	NC_021166.1	Ca_Kabuli_Chr07	33370918	GG	AA	AA	INTERGENIC		
SNP_55705_A_33381245	NC_021166.1	Ca_Kabuli_Chr07	33381245	CC	TT	TT	DRR	101505495	uncharacterized LOC101505495
SNP_55706_A_33381739	NC_021166.1	Ca_Kabuli_Chr07	33381739	AA	GG	GG	URR	101505495	uncharacterized LOC101505495
SNP_55707_A_33381742	NC_021166.1	Ca_Kabuli_Chr07	33381742	TT	AA	AA	URR	101505495	uncharacterized LOC101505495
SNP_55708_A_33381749	NC_021166.1	Ca_Kabuli_Chr07	33381749	TT	GG	GG	URR	101505495	uncharacterized LOC101505495

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55709_A_33382992	NC_021166.1	Ca_Kabuli_Chr07	33382992	TT	GG	GG	URR	101505495	uncharacterized LOC101505495
SNP_55710_A_33383240	NC_021166.1	Ca_Kabuli_Chr07	33383240	TT	CC	CC	URR	101505495	uncharacterized LOC101505495
SNP_55711_A_33385285	NC_021166.1	Ca_Kabuli_Chr07	33385285	TT	CC	CC	INTERGENIC		
SNP_55712_A_33385452	NC_021166.1	Ca_Kabuli_Chr07	33385452	AA	GG	GG	INTERGENIC		
SNP_55713_A_33401809	NC_021166.1	Ca_Kabuli_Chr07	33401809	AA	GG	GG	INTERGENIC		
SNP_55714_A_33401811	NC_021166.1	Ca_Kabuli_Chr07	33401811	CC	TT	TT	INTERGENIC		
SNP_55717_A_33413632	NC_021166.1	Ca_Kabuli_Chr07	33413632	CC	TT	TT	INTERGENIC		
SNP_55718_A_33414673	NC_021166.1	Ca_Kabuli_Chr07	33414673	CC	GG	GG	INTERGENIC		
SNP_55719_A_33415783	NC_021166.1	Ca_Kabuli_Chr07	33415783	AA	GG	GG	DRR	101506688	25.3 kDa vesicle transport protein
SNP_55720_A_33416195	NC_021166.1	Ca_Kabuli_Chr07	33416195	TT	CC	CC	DRR	101506688	25.3 kDa vesicle transport protein
SNP_55721_A_33419008	NC_021166.1	Ca_Kabuli_Chr07	33419008	TT	AA	AA	INTERGENIC		
SNP_55722_A_33419287	NC_021166.1	Ca_Kabuli_Chr07	33419287	GG	CC	CC	INTERGENIC		
SNP_55723_A_33419942	NC_021166.1	Ca_Kabuli_Chr07	33419942	TT	CC	CC	INTERGENIC		
SNP_55724_A_33419962	NC_021166.1	Ca_Kabuli_Chr07	33419962	CC	GG	GG	INTERGENIC		
SNP_55725_A_33442943	NC_021166.1	Ca_Kabuli_Chr07	33442943	GG	AA	AA	INTERGENIC		
SNP_55726_A_33459158	NC_021166.1	Ca_Kabuli_Chr07	33459158	GG	AA	AA	INTERGENIC		
SNP_55727_A_33459992	NC_021166.1	Ca_Kabuli_Chr07	33459992	CC	GG	GG	INTERGENIC		
SNP_55728_A_33459993	NC_021166.1	Ca_Kabuli_Chr07	33459993	TT	CC	CC	INTERGENIC		
SNP_55729_A_33467926	NC_021166.1	Ca_Kabuli_Chr07	33467926	GG	TT	TT	INTRON	101507554	uncharacterized LOC101507554
SNP_55730_A_33468732	NC_021166.1	Ca_Kabuli_Chr07	33468732	AA	GG	GG	INTRON	101507554	uncharacterized LOC101507554
SNP_55731_A_33469548	NC_021166.1	Ca_Kabuli_Chr07	33469548	GG	AA	AA	INTRON	101507554	uncharacterized LOC101507554
SNP_55732_A_33472258	NC_021166.1	Ca_Kabuli_Chr07	33472258	TT	CC	CC	URR	101507554	uncharacterized LOC101507554

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55733_A_33472260	NC_021166.1	Ca_Kabuli_Chr07	33472260	TT	CC	CC	URR	101507554	uncharacterized LOC101507554
SNP_55734_A_33472305	NC_021166.1	Ca_Kabuli_Chr07	33472305	GG	AA	AA	URR	101507554	uncharacterized LOC101507554
SNP_55735_A_33472506	NC_021166.1	Ca_Kabuli_Chr07	33472506	AA	GG	GG	URR	101507554	uncharacterized LOC101507554
SNP_55736_A_33472525	NC_021166.1	Ca_Kabuli_Chr07	33472525	TT	CC	CC	URR	101507554	uncharacterized LOC101507554
SNP_55738_A_33472626	NC_021166.1	Ca_Kabuli_Chr07	33472626	AA	GG	GG	URR	101507554	uncharacterized LOC101507554
SNP_55739_A_33473266	NC_021166.1	Ca_Kabuli_Chr07	33473266	CC	GG	GG	URR	101507554	uncharacterized LOC101507554
SNP_55740_A_33473291	NC_021166.1	Ca_Kabuli_Chr07	33473291	AA	TT	TT	URR	101507554	uncharacterized LOC101507554
SNP_55743_A_33475001	NC_021166.1	Ca_Kabuli_Chr07	33475001	CC	TT	TT	INTERGENIC		
SNP_55744_A_33475085	NC_021166.1	Ca_Kabuli_Chr07	33475085	CC	TT	TT	INTERGENIC		
SNP_55745_A_33475097	NC_021166.1	Ca_Kabuli_Chr07	33475097	CC	TT	TT	INTERGENIC		
SNP_55746_A_33477590	NC_021166.1	Ca_Kabuli_Chr07	33477590	GG	AA	AA	INTERGENIC		
SNP_55747_A_33477599	NC_021166.1	Ca_Kabuli_Chr07	33477599	TT	CC	CC	INTERGENIC		
SNP_55748_A_33477852	NC_021166.1	Ca_Kabuli_Chr07	33477852	CC	TT	TT	INTERGENIC		
SNP_55749_A_33477863	NC_021166.1	Ca_Kabuli_Chr07	33477863	GG	AA	AA	INTERGENIC		
SNP_55750_A_33477878	NC_021166.1	Ca_Kabuli_Chr07	33477878	AA	GG	GG	INTERGENIC		
SNP_55751_A_33477900	NC_021166.1	Ca_Kabuli_Chr07	33477900	AA	GG	GG	INTERGENIC		
SNP_55752_A_33477906	NC_021166.1	Ca_Kabuli_Chr07	33477906	AA	CC	CC	INTERGENIC		
SNP_55753_A_33477941	NC_021166.1	Ca_Kabuli_Chr07	33477941	AA	TT	TT	INTERGENIC		
SNP_55754_A_33477958	NC_021166.1	Ca_Kabuli_Chr07	33477958	AA	GG	GG	INTERGENIC		
SNP_55755_A_33477969	NC_021166.1	Ca_Kabuli_Chr07	33477969	CC	TT	TT	INTERGENIC		
SNP_55756_A_33477975	NC_021166.1	Ca_Kabuli_Chr07	33477975	TT	CC	CC	INTERGENIC		
SNP_55757_A_33478027	NC_021166.1	Ca_Kabuli_Chr07	33478027	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55758_A_33482383	NC_021166.1	Ca_Kabuli_Chr07	33482383	AA	CC	CC	URR	101508093	trihelix transcription factor ASIL2
SNP_55759_A_33486489	NC_021166.1	Ca_Kabuli_Chr07	33486489	TT	CC	CC	URR	101508408	auxin-repressed 12.5 kDa protein
SNP_55760_A_33489357	NC_021166.1	Ca_Kabuli_Chr07	33489357	AA	GG	GG	INTERGENIC		
SNP_55761_A_33518078	NC_021166.1	Ca_Kabuli_Chr07	33518078	AA	GG	GG	INTERGENIC		
SNP_55762_A_33519380	NC_021166.1	Ca_Kabuli_Chr07	33519380	AA	TT	TT	INTERGENIC		
SNP_55764_A_33520488	NC_021166.1	Ca_Kabuli_Chr07	33520488	AA	GG	GG	INTERGENIC		
SNP_55765_A_33520507	NC_021166.1	Ca_Kabuli_Chr07	33520507	GG	AA	AA	INTERGENIC		
SNP_55766_A_33520522	NC_021166.1	Ca_Kabuli_Chr07	33520522	CC	GG	GG	INTERGENIC		
SNP_55767_A_33520540	NC_021166.1	Ca_Kabuli_Chr07	33520540	AA	CC	CC	INTERGENIC		
SNP_55768_A_33520541	NC_021166.1	Ca_Kabuli_Chr07	33520541	CC	TT	TT	INTERGENIC		
SNP_55769_A_33521607	NC_021166.1	Ca_Kabuli_Chr07	33521607	TT	CC	CC	INTERGENIC		
SNP_55770_A_33521669	NC_021166.1	Ca_Kabuli_Chr07	33521669	TT	CC	CC	INTERGENIC		
SNP_55771_A_33521855	NC_021166.1	Ca_Kabuli_Chr07	33521855	TT	CC	CC	INTERGENIC		
SNP_55772_A_33522028	NC_021166.1	Ca_Kabuli_Chr07	33522028	CC	TT	TT	INTERGENIC		
SNP_55773_A_33523155	NC_021166.1	Ca_Kabuli_Chr07	33523155	AA	CC	CC	INTERGENIC		
SNP_55774_A_33523353	NC_021166.1	Ca_Kabuli_Chr07	33523353	TT	CC	CC	INTERGENIC		
SNP_55775_A_33523404	NC_021166.1	Ca_Kabuli_Chr07	33523404	AA	TT	TT	INTERGENIC		
SNP_55776_A_33524733	NC_021166.1	Ca_Kabuli_Chr07	33524733	AA	GG	GG	SYNONYMOUS_CODING	101509790	probable complex I intermediate-associated protein 30
SNP_55778_A_33528024	NC_021166.1	Ca_Kabuli_Chr07	33528024	TT	AA	AA	URR	101509790	probable complex I intermediate-associated protein 30
SNP_55779_A_33528034	NC_021166.1	Ca_Kabuli_Chr07	33528034	CC	TT	TT	URR	101509790	probable complex I intermediate-associated protein 30
SNP_55780_A_33528145	NC_021166.1	Ca_Kabuli_Chr07	33528145	AA	GG	GG	URR	101509790	probable complex I intermediate-associated protein 30
SNP_55782_A_33528406	NC_021166.1	Ca_Kabuli_Chr07	33528406	AA	GG	GG	URR	101509790	probable complex I intermediate-associated protein 30

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55783_A_33528566	NC_021166.1	Ca_Kabuli_Chr07	33528566	AA	CC	CC	URR	101509790	probable complex I intermediate-associated protein 30
SNP_55784_A_33531911	NC_021166.1	Ca_Kabuli_Chr07	33531911	AA	TT	TT	URR	101510110	auxin-induced protein X10A-like
SNP_55785_A_33531919	NC_021166.1	Ca_Kabuli_Chr07	33531919	GG	CC	CC	INTERGENIC		
SNP_55786_A_33532013	NC_021166.1	Ca_Kabuli_Chr07	33532013	TT	AA	AA	INTERGENIC		
SNP_55787_A_33532034	NC_021166.1	Ca_Kabuli_Chr07	33532034	GG	AA	AA	INTERGENIC		
SNP_55789_A_33532766	NC_021166.1	Ca_Kabuli_Chr07	33532766	GG	CC	CC	INTERGENIC		
SNP_55790_A_33532768	NC_021166.1	Ca_Kabuli_Chr07	33532768	GG	AA	AA	INTERGENIC		
SNP_55792_A_33534327	NC_021166.1	Ca_Kabuli_Chr07	33534327	AA	GG	GG	INTERGENIC		
SNP_55793_A_33534785	NC_021166.1	Ca_Kabuli_Chr07	33534785	TT	CC	CC	INTERGENIC		
SNP_55794_A_33534795	NC_021166.1	Ca_Kabuli_Chr07	33534795	CC	TT	TT	INTERGENIC		
SNP_55795_A_33534802	NC_021166.1	Ca_Kabuli_Chr07	33534802	CC	TT	TT	INTERGENIC		
SNP_55796_A_33538991	NC_021166.1	Ca_Kabuli_Chr07	33538991	TT	AA	AA	URR	101510435	uncharacterized LOC101510435
SNP_55797_A_33539202	NC_021166.1	Ca_Kabuli_Chr07	33539202	TT	CC	CC	URR	101510435	uncharacterized LOC101510435
SNP_55798_A_33539234	NC_021166.1	Ca_Kabuli_Chr07	33539234	TT	AA	AA	URR	101510435	uncharacterized LOC101510435
SNP_55800_A_33539804	NC_021166.1	Ca_Kabuli_Chr07	33539804	GG	CC	CC	URR	101510435	uncharacterized LOC101510435
SNP_55801_A_33541241	NC_021166.1	Ca_Kabuli_Chr07	33541241	AA	TT	TT	INTERGENIC		
SNP_55802_A_33545414	NC_021166.1	Ca_Kabuli_Chr07	33545414	AA	GG	GG	INTERGENIC		
SNP_55803_A_33557273	NC_021166.1	Ca_Kabuli_Chr07	33557273	GG	AA	AA	INTERGENIC		
SNP_55804_A_33557326	NC_021166.1	Ca_Kabuli_Chr07	33557326	TT	AA	AA	INTERGENIC		
SNP_55805_A_33557896	NC_021166.1	Ca_Kabuli_Chr07	33557896	AA	GG	GG	INTERGENIC		
SNP_55808_A_33560849	NC_021166.1	Ca_Kabuli_Chr07	33560849	CC	TT	TT	DRR	101510760	cytochrome P450 704B1
SNP_55809_A_33561057	NC_021166.1	Ca_Kabuli_Chr07	33561057	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55812_A_33561496	NC_021166.1	Ca_Kabuli_Chr07	33561496	AA	TT	TT	INTRON	101510760	cytochrome P450 704B1
SNP_55813_A_33562451	NC_021166.1	Ca_Kabuli_Chr07	33562451	TT	AA	AA	INTERGENIC		
SNP_55814_A_33563963	NC_021166.1	Ca_Kabuli_Chr07	33563963	TT	CC	CC	INTERGENIC		
SNP_55815_A_33564852	NC_021166.1	Ca_Kabuli_Chr07	33564852	GG	AA	AA	DRR	101511085	17.4 kDa class III heat shock protein
SNP_55816_A_33565013	NC_021166.1	Ca_Kabuli_Chr07	33565013	AA	TT	TT	DRR	101511085	17.4 kDa class III heat shock protein
SNP_55817_A_33565384	NC_021166.1	Ca_Kabuli_Chr07	33565384	GG	TT	TT	DRR	101511085	17.4 kDa class III heat shock protein
SNP_55818_A_33574530	NC_021166.1	Ca_Kabuli_Chr07	33574530	TT	AA	AA	URR	101511601	CCAAT/enhancer-binding protein zeta
SNP_55819_A_33575054	NC_021166.1	Ca_Kabuli_Chr07	33575054	AA	GG	GG	DRR	101511927	phosphoinositide phosphatase SAC2-like
SNP_55820_A_33575858	NC_021166.1	Ca_Kabuli_Chr07	33575858	GG	AA	AA	DRR	101511927	phosphoinositide phosphatase SAC2-like
SNP_55821_A_33575862	NC_021166.1	Ca_Kabuli_Chr07	33575862	GG	AA	AA	DRR	101511927	phosphoinositide phosphatase SAC2-like
SNP_55822_A_33575875	NC_021166.1	Ca_Kabuli_Chr07	33575875	CC	TT	TT	DRR	101511927	phosphoinositide phosphatase SAC2-like
SNP_55824_A_33579300	NC_021166.1	Ca_Kabuli_Chr07	33579300	TT	CC	CC	INTRON	101511927	phosphoinositide phosphatase SAC2-like
SNP_55825_A_33579666	NC_021166.1	Ca_Kabuli_Chr07	33579666	TT	CC	CC	INTRON	101511927	phosphoinositide phosphatase SAC2-like
SNP_55826_A_33585101	NC_021166.1	Ca_Kabuli_Chr07	33585101	AA	TT	TT	INTRON	101511927	phosphoinositide phosphatase SAC2-like
SNP_55827_A_33585439	NC_021166.1	Ca_Kabuli_Chr07	33585439	GG	AA	AA	INTRON	101511927	phosphoinositide phosphatase SAC2-like
SNP_55828_A_33587259	NC_021166.1	Ca_Kabuli_Chr07	33587259	AA	CC	CC	START_GAINED	101511927	phosphoinositide phosphatase SAC2-like
SNP_55829_A_33592076	NC_021166.1	Ca_Kabuli_Chr07	33592076	AA	CC	CC	INTERGENIC		
SNP_55830_A_33592497	NC_021166.1	Ca_Kabuli_Chr07	33592497	AA	GG	GG	INTERGENIC		
SNP_55831_A_33594231	NC_021166.1	Ca_Kabuli_Chr07	33594231	GG	AA	AA	INTERGENIC		
SNP_55834_A_33605646	NC_021166.1	Ca_Kabuli_Chr07	33605646	AA	TT	TT	INTERGENIC		
SNP_55836_A_33605878	NC_021166.1	Ca_Kabuli_Chr07	33605878	TT	CC	CC	INTERGENIC		
SNP_55837_A_33605881	NC_021166.1	Ca_Kabuli_Chr07	33605881	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55838_A_33605901	NC_021166.1	Ca_Kabuli_Chr07	33605901	TT	AA	AA	INTERGENIC		
SNP_55839_A_33606247	NC_021166.1	Ca_Kabuli_Chr07	33606247	TT	AA	AA	INTERGENIC		
SNP_55841_A_33612616	NC_021166.1	Ca_Kabuli_Chr07	33612616	AA	GG	GG	INTERGENIC		
SNP_55843_A_33625655	NC_021166.1	Ca_Kabuli_Chr07	33625655	GG	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55844_A_33625656	NC_021166.1	Ca_Kabuli_Chr07	33625656	AA	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55845_A_33625697	NC_021166.1	Ca_Kabuli_Chr07	33625697	AA	CC	CC	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55846_A_33627699	NC_021166.1	Ca_Kabuli_Chr07	33627699	GG	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55847_A_33630712	NC_021166.1	Ca_Kabuli_Chr07	33630712	GG	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55848_A_33630739	NC_021166.1	Ca_Kabuli_Chr07	33630739	CC	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55849_A_33631039	NC_021166.1	Ca_Kabuli_Chr07	33631039	CC	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55850_A_33631045	NC_021166.1	Ca_Kabuli_Chr07	33631045	GG	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55851_A_33631070	NC_021166.1	Ca_Kabuli_Chr07	33631070	GG	CC	CC	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55852_A_33631075	NC_021166.1	Ca_Kabuli_Chr07	33631075	GG	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55853_A_33631347	NC_021166.1	Ca_Kabuli_Chr07	33631347	AA	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55854_A_33631398	NC_021166.1	Ca_Kabuli_Chr07	33631398	TT	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55855_A_33631462	NC_021166.1	Ca_Kabuli_Chr07	33631462	GG	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55856_A_33631498	NC_021166.1	Ca_Kabuli_Chr07	33631498	CC	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55857_A_33631501	NC_021166.1	Ca_Kabuli_Chr07	33631501	GG	AA	AA	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55859_A_33631719	NC_021166.1	Ca_Kabuli_Chr07	33631719	GG	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55860_A_33631755	NC_021166.1	Ca_Kabuli_Chr07	33631755	CC	TT	TT	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55862_A_33631773	NC_021166.1	Ca_Kabuli_Chr07	33631773	TT	GG	GG	INTRON	101512592	GDSL esterase/lipase 5-like
SNP_55863_A_33631780	NC_021166.1	Ca_Kabuli_Chr07	33631780	AA	GG	GG	INTRON	101512592	GDSL esterase/lipase 5-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55864_A_33636674	NC_021166.1	Ca_Kabuli_Chr07	33636674	TT	CC	CC	INTERGENIC			
SNP_55865_A_33636700	NC_021166.1	Ca_Kabuli_Chr07	33636700	AA	GG	GG	INTERGENIC			
SNP_55866_A_33637022	NC_021166.1	Ca_Kabuli_Chr07	33637022	TT	AA	AA	INTERGENIC			
SNP_55867_A_33637989	NC_021166.1	Ca_Kabuli_Chr07	33637989	GG	AA	AA	INTERGENIC			
SNP_55868_A_33638003	NC_021166.1	Ca_Kabuli_Chr07	33638003	GG	AA	AA	INTERGENIC			
SNP_55869_A_33638015	NC_021166.1	Ca_Kabuli_Chr07	33638015	GG	CC	CC	INTERGENIC			
SNP_55870_A_33638261	NC_021166.1	Ca_Kabuli_Chr07	33638261	GG	AA	AA	INTERGENIC			
SNP_55871_A_33638344	NC_021166.1	Ca_Kabuli_Chr07	33638344	TT	AA	AA	INTERGENIC			
SNP_55872_A_33638353	NC_021166.1	Ca_Kabuli_Chr07	33638353	TT	AA	AA	INTERGENIC			
SNP_55873_A_33638541	NC_021166.1	Ca_Kabuli_Chr07	33638541	AA	TT	TT	INTERGENIC			
SNP_55878_A_33640340	NC_021166.1	Ca_Kabuli_Chr07	33640340	AA	TT	TT	DRR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55879_A_33640397	NC_021166.1	Ca_Kabuli_Chr07	33640397	TT	CC	CC	DRR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55880_A_33640556	NC_021166.1	Ca_Kabuli_Chr07	33640556	GG	CC	CC	DRR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55881_A_33643734	NC_021166.1	Ca_Kabuli_Chr07	33643734	TT	GG	GG	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55884_A_33644693	NC_021166.1	Ca_Kabuli_Chr07	33644693	GG	CC	CC	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55885_A_33644697	NC_021166.1	Ca_Kabuli_Chr07	33644697	CC	TT	TT	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55887_A_33644967	NC_021166.1	Ca_Kabuli_Chr07	33644967	AA	GG	GG	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55888_A_33644974	NC_021166.1	Ca_Kabuli_Chr07	33644974	TT	CC	CC	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55889_A_33644984	NC_021166.1	Ca_Kabuli_Chr07	33644984	GG	AA	AA	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55890_A_33644989	NC_021166.1	Ca_Kabuli_Chr07	33644989	CC	AA	AA	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55891_A_33645034	NC_021166.1	Ca_Kabuli_Chr07	33645034	CC	TT	TT	URR	101512899	ethylene-responsive transcription factor RAP2-12	
SNP_55892_A_33645047	NC_021166.1	Ca_Kabuli_Chr07	33645047	CC	TT	TT	URR	101512899	ethylene-responsive transcription factor RAP2-12	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55894_A_33645386	NC_021166.1	Ca_Kabuli_Chr07	33645386	AA	GG	GG	URR	101512899	ethylene-responsive transcription factor RAP2-12
SNP_55895_A_33647939	NC_021166.1	Ca_Kabuli_Chr07	33647939	GG	TT	TT	INTERGENIC		
SNP_55896_A_33649813	NC_021166.1	Ca_Kabuli_Chr07	33649813	TT	CC	CC	INTERGENIC		
SNP_55897_A_33649818	NC_021166.1	Ca_Kabuli_Chr07	33649818	TT	CC	CC	INTERGENIC		
SNP_55898_A_33650134	NC_021166.1	Ca_Kabuli_Chr07	33650134	CC	TT	TT	INTERGENIC		
SNP_55899_A_33650404	NC_021166.1	Ca_Kabuli_Chr07	33650404	GG	AA	AA	INTERGENIC		
SNP_55900_A_33650508	NC_021166.1	Ca_Kabuli_Chr07	33650508	AA	GG	GG	INTERGENIC		
SNP_55901_A_33650843	NC_021166.1	Ca_Kabuli_Chr07	33650843	AA	GG	GG	INTERGENIC		
SNP_55902_A_33652028	NC_021166.1	Ca_Kabuli_Chr07	33652028	CC	TT	TT	INTERGENIC		
SNP_55903_A_33653665	NC_021166.1	Ca_Kabuli_Chr07	33653665	AA	GG	GG	INTERGENIC		
SNP_55904_A_33653676	NC_021166.1	Ca_Kabuli_Chr07	33653676	GG	AA	AA	INTERGENIC		
SNP_55905_A_33653941	NC_021166.1	Ca_Kabuli_Chr07	33653941	TT	GG	GG	INTERGENIC		
SNP_55906_A_33655992	NC_021166.1	Ca_Kabuli_Chr07	33655992	CC	TT	TT	INTERGENIC		
SNP_55907_A_33657854	NC_021166.1	Ca_Kabuli_Chr07	33657854	AA	TT	TT	INTERGENIC		
SNP_55908_A_33657859	NC_021166.1	Ca_Kabuli_Chr07	33657859	GG	AA	AA	INTERGENIC		
SNP_55909_A_33657897	NC_021166.1	Ca_Kabuli_Chr07	33657897	CC	AA	AA	INTERGENIC		
SNP_55910_A_33657935	NC_021166.1	Ca_Kabuli_Chr07	33657935	GG	AA	AA	INTERGENIC		
SNP_55911_A_33658901	NC_021166.1	Ca_Kabuli_Chr07	33658901	GG	AA	AA	INTERGENIC		
SNP_55912_A_33659224	NC_021166.1	Ca_Kabuli_Chr07	33659224	TT	CC	CC	INTERGENIC		
SNP_55913_A_33659261	NC_021166.1	Ca_Kabuli_Chr07	33659261	TT	CC	CC	INTERGENIC		
SNP_55914_A_33659270	NC_021166.1	Ca_Kabuli_Chr07	33659270	GG	AA	AA	INTERGENIC		
SNP_55915_A_33659284	NC_021166.1	Ca_Kabuli_Chr07	33659284	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_55916_A_33659308	NC_021166.1	Ca_Kabuli_Chr07	33659308	TT	CC	CC	INTERGENIC			
SNP_55917_A_33659383	NC_021166.1	Ca_Kabuli_Chr07	33659383	CC	GG	GG	INTERGENIC			
SNP_55918_A_33659617	NC_021166.1	Ca_Kabuli_Chr07	33659617	AA	GG	GG	INTERGENIC			
SNP_55919_A_33659634	NC_021166.1	Ca_Kabuli_Chr07	33659634	TT	CC	CC	INTERGENIC			
SNP_55921_A_33662637	NC_021166.1	Ca_Kabuli_Chr07	33662637	TT	AA	AA	INTERGENIC			
SNP_55926_A_33663742	NC_021166.1	Ca_Kabuli_Chr07	33663742	CC	AA	AA	INTERGENIC			
SNP_55927_A_33665155	NC_021166.1	Ca_Kabuli_Chr07	33665155	GG	AA	AA	INTERGENIC			
SNP_55928_A_33666453	NC_021166.1	Ca_Kabuli_Chr07	33666453	CC	GG	GG	INTERGENIC			
SNP_55929_A_33670382	NC_021166.1	Ca_Kabuli_Chr07	33670382	TT	CC	CC	INTERGENIC			
SNP_55930_A_33670403	NC_021166.1	Ca_Kabuli_Chr07	33670403	CC	TT	TT	INTERGENIC			
SNP_55931_A_33671090	NC_021166.1	Ca_Kabuli_Chr07	33671090	CC	TT	TT	INTERGENIC			
SNP_55932_A_33671358	NC_021166.1	Ca_Kabuli_Chr07	33671358	GG	AA	AA	INTERGENIC			
SNP_55934_A_33672594	NC_021166.1	Ca_Kabuli_Chr07	33672594	AA	TT	TT	DRR	101513435	subtilisin-like protease SBT1.6	
SNP_55935_A_33678499	NC_021166.1	Ca_Kabuli_Chr07	33678499	AA	TT	TT	INTERGENIC			
SNP_55936_A_33683176	NC_021166.1	Ca_Kabuli_Chr07	33683176	TT	AA	AA	INTERGENIC			
SNP_55938_A_33683226	NC_021166.1	Ca_Kabuli_Chr07	33683226	AA	CC	CC	INTERGENIC			
SNP_55939_A_33683312	NC_021166.1	Ca_Kabuli_Chr07	33683312	AA	GG	GG	INTERGENIC			
SNP_55940_A_33683323	NC_021166.1	Ca_Kabuli_Chr07	33683323	AA	CC	CC	INTERGENIC			
SNP_55941_A_33683334	NC_021166.1	Ca_Kabuli_Chr07	33683334	TT	GG	GG	INTERGENIC			
SNP_55942_A_33683885	NC_021166.1	Ca_Kabuli_Chr07	33683885	GG	AA	AA	INTERGENIC			
SNP_55943_A_33683890	NC_021166.1	Ca_Kabuli_Chr07	33683890	AA	TT	TT	INTERGENIC			
SNP_55944_A_33683947	NC_021166.1	Ca_Kabuli_Chr07	33683947	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55945_A_33700331	NC_021166.1	Ca_Kabuli_Chr07	33700331	AA	GG	GG	INTERGENIC		
SNP_55946_A_33700362	NC_021166.1	Ca_Kabuli_Chr07	33700362	CC	AA	AA	INTERGENIC		
SNP_55947_A_33700387	NC_021166.1	Ca_Kabuli_Chr07	33700387	CC	TT	TT	INTERGENIC		
SNP_55948_A_33700660	NC_021166.1	Ca_Kabuli_Chr07	33700660	CC	TT	TT	INTERGENIC		
SNP_55949_A_33701350	NC_021166.1	Ca_Kabuli_Chr07	33701350	AA	GG	GG	INTERGENIC		
SNP_55950_A_33704744	NC_021166.1	Ca_Kabuli_Chr07	33704744	TT	CC	CC	INTERGENIC		
SNP_55951_A_33705918	NC_021166.1	Ca_Kabuli_Chr07	33705918	TT	AA	AA	DRR	101513746	uncharacterized LOC101513746
SNP_55952_A_33706124	NC_021166.1	Ca_Kabuli_Chr07	33706124	CC	GG	GG	DRR	101513746	uncharacterized LOC101513746
SNP_55953_A_33708161	NC_021166.1	Ca_Kabuli_Chr07	33708161	AA	GG	GG	URR	101513746	uncharacterized LOC101513746
SNP_55955_A_33719738	NC_021166.1	Ca_Kabuli_Chr07	33719738	TT	CC	CC	INTERGENIC		
SNP_55956_A_33720124	NC_021166.1	Ca_Kabuli_Chr07	33720124	CC	AA	AA	INTERGENIC		
SNP_55957_A_33720343	NC_021166.1	Ca_Kabuli_Chr07	33720343	CC	TT	TT	INTERGENIC		
SNP_55958_A_33720387	NC_021166.1	Ca_Kabuli_Chr07	33720387	GG	AA	AA	INTERGENIC		
SNP_55959_A_33720414	NC_021166.1	Ca_Kabuli_Chr07	33720414	CC	TT	TT	INTERGENIC		
SNP_55960_A_33721854	NC_021166.1	Ca_Kabuli_Chr07	33721854	AA	GG	GG	INTERGENIC		
SNP_55961_A_33722981	NC_021166.1	Ca_Kabuli_Chr07	33722981	CC	AA	AA	INTERGENIC		
SNP_55962_A_33722986	NC_021166.1	Ca_Kabuli_Chr07	33722986	GG	CC	CC	INTERGENIC		
SNP_55963_A_33725472	NC_021166.1	Ca_Kabuli_Chr07	33725472	GG	AA	AA	DRR	101493142	agamous-like MADS-box protein AGL62
SNP_55965_A_33727112	NC_021166.1	Ca_Kabuli_Chr07	33727112	AA	TT	TT	URR	101493142	agamous-like MADS-box protein AGL62
SNP_55966_A_33729675	NC_021166.1	Ca_Kabuli_Chr07	33729675	CC	TT	TT	INTERGENIC		
SNP_55967_A_33732113	NC_021166.1	Ca_Kabuli_Chr07	33732113	TT	AA	AA	INTERGENIC		
SNP_55968_A_33732504	NC_021166.1	Ca_Kabuli_Chr07	33732504	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55969_A_33732655	NC_021166.1	Ca_Kabuli_Chr07	33732655	GG	TT	TT	INTERGENIC		
SNP_55970_A_33739074	NC_021166.1	Ca_Kabuli_Chr07	33739074	GG	AA	AA	INTRON	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55971_A_33741986	NC_021166.1	Ca_Kabuli_Chr07	33741986	CC	TT	TT	INTRON	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55972_A_33743963	NC_021166.1	Ca_Kabuli_Chr07	33743963	GG	AA	AA	INTRON	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55973_A_33744353	NC_021166.1	Ca_Kabuli_Chr07	33744353	TT	CC	CC	INTRON	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55974_A_33747075	NC_021166.1	Ca_Kabuli_Chr07	33747075	AA	TT	TT	URR	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55975_A_33747365	NC_021166.1	Ca_Kabuli_Chr07	33747365	CC	TT	TT	URR	101514085	AT-rich interactive domain-containing protein 4-like
SNP_55976_A_33756409	NC_021166.1	Ca_Kabuli_Chr07	33756409	AA	GG	GG	URR	101514410	translation initiation factor eIF-2B subunit alpha-like
SNP_55977_A_33759645	NC_021166.1	Ca_Kabuli_Chr07	33759645	CC	TT	TT	NON_SYNONYMOUS_CODING	101514737	uncharacterized LOC101514737
SNP_55978_A_33759648	NC_021166.1	Ca_Kabuli_Chr07	33759648	CC	TT	TT	NON_SYNONYMOUS_CODING	101514737	uncharacterized LOC101514737
SNP_55979_A_33759675	NC_021166.1	Ca_Kabuli_Chr07	33759675	CC	TT	TT	NON_SYNONYMOUS_CODING	101514737	uncharacterized LOC101514737
SNP_55980_A_33763290	NC_021166.1	Ca_Kabuli_Chr07	33763290	AA	GG	GG	URR	101514737	uncharacterized LOC101514737
SNP_55981_A_33763296	NC_021166.1	Ca_Kabuli_Chr07	33763296	AA	GG	GG	URR	101514737	uncharacterized LOC101514737
SNP_55982_A_33763655	NC_021166.1	Ca_Kabuli_Chr07	33763655	CC	TT	TT	URR	101514737	uncharacterized LOC101514737
SNP_55983_A_33763672	NC_021166.1	Ca_Kabuli_Chr07	33763672	TT	CC	CC	URR	101514737	uncharacterized LOC101514737
SNP_55984_A_33765561	NC_021166.1	Ca_Kabuli_Chr07	33765561	AA	TT	TT	DRR	101515063	protein LURP-one-related 11-like
SNP_55985_A_33765614	NC_021166.1	Ca_Kabuli_Chr07	33765614	TT	AA	AA	DRR	101515063	protein LURP-one-related 11-like
SNP_55987_A_33766145	NC_021166.1	Ca_Kabuli_Chr07	33766145	GG	AA	AA	INTRON	101515063	protein LURP-one-related 11-like
SNP_55988_A_33766152	NC_021166.1	Ca_Kabuli_Chr07	33766152	AA	GG	GG	INTRON	101515063	protein LURP-one-related 11-like
SNP_55989_A_33766154	NC_021166.1	Ca_Kabuli_Chr07	33766154	GG	TT	TT	INTRON	101515063	protein LURP-one-related 11-like
SNP_55990_A_33766324	NC_021166.1	Ca_Kabuli_Chr07	33766324	CC	GG	GG	INTRON	101515063	protein LURP-one-related 11-like
SNP_55991_A_33768642	NC_021166.1	Ca_Kabuli_Chr07	33768642	TT	CC	CC	URR	101515063	protein LURP-one-related 11-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_55992_A_33768652	NC_021166.1	Ca_Kabuli_Chr07	33768652	CC	TT	TT	URR	101515063	protein LURP-one-related 11-like
SNP_55993_A_33768679	NC_021166.1	Ca_Kabuli_Chr07	33768679	CC	AA	AA	URR	101515063	protein LURP-one-related 11-like
SNP_55995_A_33768934	NC_021166.1	Ca_Kabuli_Chr07	33768934	AA	CC	CC	URR	101515063	protein LURP-one-related 11-like
SNP_55997_A_33770999	NC_021166.1	Ca_Kabuli_Chr07	33770999	TT	AA	AA	INTERGENIC		
SNP_55998_A_33771000	NC_021166.1	Ca_Kabuli_Chr07	33771000	GG	AA	AA	INTERGENIC		
SNP_55999_A_33771006	NC_021166.1	Ca_Kabuli_Chr07	33771006	TT	CC	CC	INTERGENIC		
SNP_56000_A_33771209	NC_021166.1	Ca_Kabuli_Chr07	33771209	AA	GG	GG	INTERGENIC		
SNP_56001_A_33771237	NC_021166.1	Ca_Kabuli_Chr07	33771237	TT	AA	AA	INTERGENIC		
SNP_56002_A_33772165	NC_021166.1	Ca_Kabuli_Chr07	33772165	TT	CC	CC	INTERGENIC		
SNP_56003_A_33772747	NC_021166.1	Ca_Kabuli_Chr07	33772747	AA	TT	TT	INTERGENIC		
SNP_56005_A_33775645	NC_021166.1	Ca_Kabuli_Chr07	33775645	GG	CC	CC	INTERGENIC		
SNP_56006_A_33775647	NC_021166.1	Ca_Kabuli_Chr07	33775647	GG	AA	AA	INTERGENIC		
SNP_56007_A_33775671	NC_021166.1	Ca_Kabuli_Chr07	33775671	GG	AA	AA	INTERGENIC		
SNP_56008_A_33776151	NC_021166.1	Ca_Kabuli_Chr07	33776151	GG	AA	AA	INTERGENIC		
SNP_56009_A_33780130	NC_021166.1	Ca_Kabuli_Chr07	33780130	AA	TT	TT	INTERGENIC		
SNP_56010_A_33780640	NC_021166.1	Ca_Kabuli_Chr07	33780640	AA	GG	GG	INTERGENIC		
SNP_56011_A_33780666	NC_021166.1	Ca_Kabuli_Chr07	33780666	GG	AA	AA	INTERGENIC		
SNP_56012_A_33780685	NC_021166.1	Ca_Kabuli_Chr07	33780685	AA	GG	GG	INTERGENIC		
SNP_56013_A_33780814	NC_021166.1	Ca_Kabuli_Chr07	33780814	AA	GG	GG	INTERGENIC		
SNP_56014_A_33780826	NC_021166.1	Ca_Kabuli_Chr07	33780826	GG	AA	AA	INTERGENIC		
SNP_56015_A_33780912	NC_021166.1	Ca_Kabuli_Chr07	33780912	TT	CC	CC	INTERGENIC		
SNP_56016_A_33780933	NC_021166.1	Ca_Kabuli_Chr07	33780933	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56017_A_33780953	NC_021166.1	Ca_Kabuli_Chr07	33780953	AA	CC	CC	INTERGENIC		
SNP_56018_A_33781163	NC_021166.1	Ca_Kabuli_Chr07	33781163	TT	AA	AA	INTERGENIC		
SNP_56019_A_33781185	NC_021166.1	Ca_Kabuli_Chr07	33781185	AA	GG	GG	INTERGENIC		
SNP_56020_A_33781197	NC_021166.1	Ca_Kabuli_Chr07	33781197	GG	AA	AA	INTERGENIC		
SNP_56022_A_33781535	NC_021166.1	Ca_Kabuli_Chr07	33781535	AA	TT	TT	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56023_A_33781625	NC_021166.1	Ca_Kabuli_Chr07	33781625	TT	CC	CC	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56024_A_33781636	NC_021166.1	Ca_Kabuli_Chr07	33781636	AA	TT	TT	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56026_A_33781755	NC_021166.1	Ca_Kabuli_Chr07	33781755	AA	TT	TT	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56027_A_33781903	NC_021166.1	Ca_Kabuli_Chr07	33781903	GG	AA	AA	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56028_A_33781910	NC_021166.1	Ca_Kabuli_Chr07	33781910	TT	CC	CC	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56029_A_33781985	NC_021166.1	Ca_Kabuli_Chr07	33781985	GG	AA	AA	DRR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56030_A_33783121	NC_021166.1	Ca_Kabuli_Chr07	33783121	GG	TT	TT	URR	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56031_A_33784776	NC_021166.1	Ca_Kabuli_Chr07	33784776	GG	AA	AA	SYNONYMOUS_CODING	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56032_A_33785735	NC_021166.1	Ca_Kabuli_Chr07	33785735	CC	GG	GG	INTRON	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56033_A_33786946	NC_021166.1	Ca_Kabuli_Chr07	33786946	TT	CC	CC	INTRON	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56035_A_33789547	NC_021166.1	Ca_Kabuli_Chr07	33789547	CC	GG	GG	INTRON	101515385	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B
SNP_56037_A_33802162	NC_021166.1	Ca_Kabuli_Chr07	33802162	CC	TT	TT	URR	101493791	putative WEB family protein At1g65010, chloroplastic
SNP_56038_A_33805052	NC_021166.1	Ca_Kabuli_Chr07	33805052	TT	GG	GG	INTERGENIC		
SNP_56039_A_33805060	NC_021166.1	Ca_Kabuli_Chr07	33805060	TT	AA	AA	INTERGENIC		
SNP_56040_A_33805068	NC_021166.1	Ca_Kabuli_Chr07	33805068	AA	TT	TT	INTERGENIC		
SNP_56042_A_33805551	NC_021166.1	Ca_Kabuli_Chr07	33805551	AA	CC	CC	INTERGENIC		
SNP_56043_A_33805552	NC_021166.1	Ca_Kabuli_Chr07	33805552	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56044_A_33805669	NC_021166.1	Ca_Kabuli_Chr07	33805669	CC	TT	TT	INTERGENIC		
SNP_56046_A_33807309	NC_021166.1	Ca_Kabuli_Chr07	33807309	GG	AA	AA	DRR	101488697	putative uncharacterized protein DDB_G0279653
SNP_56047_A_33808988	NC_021166.1	Ca_Kabuli_Chr07	33808988	GG	AA	AA	INTRON	101488697	putative uncharacterized protein DDB_G0279653
SNP_56048_A_33809055	NC_021166.1	Ca_Kabuli_Chr07	33809055	AA	TT	TT	INTRON	101488697	putative uncharacterized protein DDB_G0279653
SNP_56050_A_33810967	NC_021166.1	Ca_Kabuli_Chr07	33810967	TT	CC	CC	INTRON	101488697	putative uncharacterized protein DDB_G0279653
SNP_56051_A_33811214	NC_021166.1	Ca_Kabuli_Chr07	33811214	GG	AA	AA	INTERGENIC		
SNP_56054_A_33813173	NC_021166.1	Ca_Kabuli_Chr07	33813173	AA	GG	GG	INTERGENIC		
SNP_56055_A_33813400	NC_021166.1	Ca_Kabuli_Chr07	33813400	TT	AA	AA	INTERGENIC		
SNP_56057_A_33815322	NC_021166.1	Ca_Kabuli_Chr07	33815322	CC	GG	GG	DRR	101489034	alanine aminotransferase 2-like
SNP_56058_A_33815324	NC_021166.1	Ca_Kabuli_Chr07	33815324	CC	TT	TT	DRR	101489034	alanine aminotransferase 2-like
SNP_56059_A_33815374	NC_021166.1	Ca_Kabuli_Chr07	33815374	CC	GG	GG	DRR	101489034	alanine aminotransferase 2-like
SNP_56061_A_33815731	NC_021166.1	Ca_Kabuli_Chr07	33815731	GG	TT	TT	DRR	101489034	alanine aminotransferase 2-like
SNP_56063_A_33817116	NC_021166.1	Ca_Kabuli_Chr07	33817116	GG	AA	AA	INTERGENIC		
SNP_56064_A_33817419	NC_021166.1	Ca_Kabuli_Chr07	33817419	CC	TT	TT	INTERGENIC		
SNP_56065_A_33821189	NC_021166.1	Ca_Kabuli_Chr07	33821189	AA	GG	GG	INTRON	101489034	alanine aminotransferase 2-like
SNP_56066_A_33821476	NC_021166.1	Ca_Kabuli_Chr07	33821476	AA	CC	CC	INTRON	101489034	alanine aminotransferase 2-like
SNP_56067_A_33821678	NC_021166.1	Ca_Kabuli_Chr07	33821678	AA	GG	GG	INTRON	101489034	alanine aminotransferase 2-like
SNP_56068_A_33821690	NC_021166.1	Ca_Kabuli_Chr07	33821690	CC	AA	AA	INTRON	101489034	alanine aminotransferase 2-like
SNP_56069_A_33821693	NC_021166.1	Ca_Kabuli_Chr07	33821693	TT	AA	AA	INTRON	101489034	alanine aminotransferase 2-like
SNP_56070_A_33823165	NC_021166.1	Ca_Kabuli_Chr07	33823165	CC	GG	GG	URR	101489034	alanine aminotransferase 2-like
SNP_56071_A_33824552	NC_021166.1	Ca_Kabuli_Chr07	33824552	TT	GG	GG	URR	101489034	alanine aminotransferase 2-like
SNP_56072_A_33824808	NC_021166.1	Ca_Kabuli_Chr07	33824808	GG	AA	AA	URR	101489034	alanine aminotransferase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56073_A_33824975	NC_021166.1	Ca_Kabuli_Chr07	33824975	TT	GG	GG	URR	101489034	alanine aminotransferase 2-like
SNP_56074_A_33829068	NC_021166.1	Ca_Kabuli_Chr07	33829068	AA	TT	TT	INTERGENIC		
SNP_56075_A_33839324	NC_021166.1	Ca_Kabuli_Chr07	33839324	AA	TT	TT	URR	101489363	pectinesterase 3
SNP_56076_A_33839340	NC_021166.1	Ca_Kabuli_Chr07	33839340	CC	AA	AA	URR	101489363	pectinesterase 3
SNP_56078_A_33846893	NC_021166.1	Ca_Kabuli_Chr07	33846893	TT	CC	CC	INTRON	101489689	pectinesterase 3-like
SNP_56079_A_33850992	NC_021166.1	Ca_Kabuli_Chr07	33850992	AA	TT	TT	URR	101489689	pectinesterase 3-like
SNP_56080_A_33850998	NC_021166.1	Ca_Kabuli_Chr07	33850998	AA	GG	GG	URR	101489689	pectinesterase 3-like
SNP_56081_A_33851033	NC_021166.1	Ca_Kabuli_Chr07	33851033	TT	GG	GG	URR	101489689	pectinesterase 3-like
SNP_56082_A_33855167	NC_021166.1	Ca_Kabuli_Chr07	33855167	GG	AA	AA	INTERGENIC		
SNP_56083_A_33855170	NC_021166.1	Ca_Kabuli_Chr07	33855170	TT	CC	CC	INTERGENIC		
SNP_56084_A_33855261	NC_021166.1	Ca_Kabuli_Chr07	33855261	GG	CC	CC	INTERGENIC		
SNP_56086_A_33855314	NC_021166.1	Ca_Kabuli_Chr07	33855314	TT	CC	CC	INTERGENIC		
SNP_56090_A_33855756	NC_021166.1	Ca_Kabuli_Chr07	33855756	AA	CC	CC	INTERGENIC		
SNP_56091_A_33856749	NC_021166.1	Ca_Kabuli_Chr07	33856749	AA	TT	TT	INTERGENIC		
SNP_56093_A_33857643	NC_021166.1	Ca_Kabuli_Chr07	33857643	AA	GG	GG	INTERGENIC		
SNP_56094_A_33857757	NC_021166.1	Ca_Kabuli_Chr07	33857757	CC	TT	TT	INTERGENIC		
SNP_56095_A_33857981	NC_021166.1	Ca_Kabuli_Chr07	33857981	CC	AA	AA	INTERGENIC		
SNP_56096_A_33857985	NC_021166.1	Ca_Kabuli_Chr07	33857985	GG	AA	AA	INTERGENIC		
SNP_56097_A_33858054	NC_021166.1	Ca_Kabuli_Chr07	33858054	TT	AA	AA	INTERGENIC		
SNP_56098_A_33858072	NC_021166.1	Ca_Kabuli_Chr07	33858072	TT	AA	AA	INTERGENIC		
SNP_56099_A_33858116	NC_021166.1	Ca_Kabuli_Chr07	33858116	CC	TT	TT	INTERGENIC		
SNP_56100_A_33858492	NC_021166.1	Ca_Kabuli_Chr07	33858492	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56101_A_33858493	NC_021166.1	Ca_Kabuli_Chr07	33858493	CC	TT	TT	INTERGENIC		
SNP_56102_A_33858503	NC_021166.1	Ca_Kabuli_Chr07	33858503	CC	TT	TT	INTERGENIC		
SNP_56103_A_33859100	NC_021166.1	Ca_Kabuli_Chr07	33859100	GG	AA	AA	INTERGENIC		
SNP_56105_A_33859467	NC_021166.1	Ca_Kabuli_Chr07	33859467	AA	TT	TT	INTERGENIC		
SNP_56106_A_33859526	NC_021166.1	Ca_Kabuli_Chr07	33859526	TT	CC	CC	INTERGENIC		
SNP_56107_A_33862502	NC_021166.1	Ca_Kabuli_Chr07	33862502	TT	CC	CC	INTRON	101490009	exocyst complex component SEC10
SNP_56108_A_33862519	NC_021166.1	Ca_Kabuli_Chr07	33862519	CC	AA	AA	INTRON	101490009	exocyst complex component SEC10
SNP_56109_A_33863242	NC_021166.1	Ca_Kabuli_Chr07	33863242	GG	AA	AA	INTRON	101490009	exocyst complex component SEC10
SNP_56110_A_33863359	NC_021166.1	Ca_Kabuli_Chr07	33863359	GG	AA	AA	INTRON	101490009	exocyst complex component SEC10
SNP_56111_A_33863578	NC_021166.1	Ca_Kabuli_Chr07	33863578	GG	AA	AA	INTRON	101490009	exocyst complex component SEC10
SNP_56112_A_33863854	NC_021166.1	Ca_Kabuli_Chr07	33863854	GG	AA	AA	INTRON	101490009	exocyst complex component SEC10
SNP_56113_A_33866743	NC_021166.1	Ca_Kabuli_Chr07	33866743	AA	GG	GG	INTRON	101490009	exocyst complex component SEC10
SNP_56114_A_33867334	NC_021166.1	Ca_Kabuli_Chr07	33867334	TT	CC	CC	INTRON	101490009	exocyst complex component SEC10
SNP_56115_A_33867674	NC_021166.1	Ca_Kabuli_Chr07	33867674	TT	CC	CC	INTRON	101490009	exocyst complex component SEC10
SNP_56116_A_33871165	NC_021166.1	Ca_Kabuli_Chr07	33871165	AA	GG	GG	SYNONYMOUS_CODING	101490009	exocyst complex component SEC10
SNP_56117_A_33871696	NC_021166.1	Ca_Kabuli_Chr07	33871696	GG	AA	AA	URR	101490009	exocyst complex component SEC10
SNP_56118_A_33871846	NC_021166.1	Ca_Kabuli_Chr07	33871846	TT	CC	CC	URR	101490009	exocyst complex component SEC10
SNP_56120_A_33873480	NC_021166.1	Ca_Kabuli_Chr07	33873480	TT	GG	GG	INTERGENIC		
SNP_56121_A_33873500	NC_021166.1	Ca_Kabuli_Chr07	33873500	AA	TT	TT	INTERGENIC		
SNP_56122_A_33880526	NC_021166.1	Ca_Kabuli_Chr07	33880526	GG	TT	TT	URR	101490348	ubiquitin-conjugating enzyme E2 34-like
SNP_56123_A_33880802	NC_021166.1	Ca_Kabuli_Chr07	33880802	AA	GG	GG	URR	101490348	ubiquitin-conjugating enzyme E2 34-like
SNP_56124_A_33880898	NC_021166.1	Ca_Kabuli_Chr07	33880898	GG	AA	AA	URR	101490348	ubiquitin-conjugating enzyme E2 34-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56126_A_33891901	NC_021166.1	Ca_Kabuli_Chr07	33891901	TT	AA	AA	INTERGENIC		
SNP_56127_A_33892084	NC_021166.1	Ca_Kabuli_Chr07	33892084	AA	TT	TT	INTERGENIC		
SNP_56128_A_33900390	NC_021166.1	Ca_Kabuli_Chr07	33900390	AA	GG	GG	INTERGENIC		
SNP_56129_A_33900397	NC_021166.1	Ca_Kabuli_Chr07	33900397	GG	AA	AA	INTERGENIC		
SNP_56130_A_33900438	NC_021166.1	Ca_Kabuli_Chr07	33900438	GG	CC	CC	INTERGENIC		
SNP_56131_A_33905411	NC_021166.1	Ca_Kabuli_Chr07	33905411	AA	CC	CC	INTRON	id175489	Unknown function
SNP_56132_A_33905577	NC_021166.1	Ca_Kabuli_Chr07	33905577	GG	AA	AA	INTRON	id175489	Unknown function
SNP_56133_A_33905704	NC_021166.1	Ca_Kabuli_Chr07	33905704	TT	CC	CC	NON_SYNONYMOUS_CODING	id175489	Unknown function
SNP_56134_A_33905708	NC_021166.1	Ca_Kabuli_Chr07	33905708	CC	TT	TT	NON_SYNONYMOUS_CODING	id175489	Unknown function
SNP_56135_A_33905713	NC_021166.1	Ca_Kabuli_Chr07	33905713	AA	GG	GG	NON_SYNONYMOUS_CODING	id175489	Unknown function
SNP_56136_A_33905730	NC_021166.1	Ca_Kabuli_Chr07	33905730	CC	GG	GG	NON_SYNONYMOUS_CODING	id175489	Unknown function
SNP_56137_A_33905731	NC_021166.1	Ca_Kabuli_Chr07	33905731	AA	TT	TT	NON_SYNONYMOUS_CODING	id175489	Unknown function
SNP_56138_A_33937347	NC_021166.1	Ca_Kabuli_Chr07	33937347	GG	AA	AA	INTERGENIC		
SNP_56139_A_33987231	NC_021166.1	Ca_Kabuli_Chr07	33987231	TT	CC	CC	INTRON	101491935	glutamate receptor 2.9-like
SNP_56140_A_34002768	NC_021166.1	Ca_Kabuli_Chr07	34002768	TT	CC	CC	INTERGENIC		
SNP_56141_A_34002775	NC_021166.1	Ca_Kabuli_Chr07	34002775	GG	AA	AA	INTERGENIC		
SNP_56142_A_34080943	NC_021166.1	Ca_Kabuli_Chr07	34080943	TT	CC	CC	INTERGENIC		
SNP_56143_A_34085289	NC_021166.1	Ca_Kabuli_Chr07	34085289	CC	TT	TT	INTERGENIC		
SNP_56144_A_34086986	NC_021166.1	Ca_Kabuli_Chr07	34086986	CC	TT	TT	INTERGENIC		
SNP_56145_A_34087575	NC_021166.1	Ca_Kabuli_Chr07	34087575	CC	GG	GG	INTERGENIC		
SNP_56146_A_34087768	NC_021166.1	Ca_Kabuli_Chr07	34087768	TT	CC	CC	INTERGENIC		
SNP_56147_A_34087796	NC_021166.1	Ca_Kabuli_Chr07	34087796	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56148_A_34108966	NC_021166.1	Ca_Kabuli_Chr07	34108966	GG	AA	AA	INTERGENIC		
SNP_56149_A_34109007	NC_021166.1	Ca_Kabuli_Chr07	34109007	CC	TT	TT	INTERGENIC		
SNP_56150_A_34109030	NC_021166.1	Ca_Kabuli_Chr07	34109030	AA	TT	TT	INTERGENIC		
SNP_56152_A_34110721	NC_021166.1	Ca_Kabuli_Chr07	34110721	TT	CC	CC	INTERGENIC		
SNP_56153_A_34112458	NC_021166.1	Ca_Kabuli_Chr07	34112458	CC	TT	TT	URR	101495833	putative RING-H2 finger protein ATL53
SNP_56154_A_34131804	NC_021166.1	Ca_Kabuli_Chr07	34131804	CC	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56155_A_34131810	NC_021166.1	Ca_Kabuli_Chr07	34131810	TT	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56156_A_34131818	NC_021166.1	Ca_Kabuli_Chr07	34131818	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56157_A_34135103	NC_021166.1	Ca_Kabuli_Chr07	34135103	TT	CC	CC	SYNONYMOUS_CODING	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56159_A_34136786	NC_021166.1	Ca_Kabuli_Chr07	34136786	TT	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56161_A_34138326	NC_021166.1	Ca_Kabuli_Chr07	34138326	TT	AA	AA	SYNONYMOUS_CODING	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56162_A_34142924	NC_021166.1	Ca_Kabuli_Chr07	34142924	CC	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56163_A_34146566	NC_021166.1	Ca_Kabuli_Chr07	34146566	AA	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56164_A_34149775	NC_021166.1	Ca_Kabuli_Chr07	34149775	GG	AA	AA	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56166_A_34158175	NC_021166.1	Ca_Kabuli_Chr07	34158175	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56167_A_34158391	NC_021166.1	Ca_Kabuli_Chr07	34158391	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56168_A_34158412	NC_021166.1	Ca_Kabuli_Chr07	34158412	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56169_A_34158434	NC_021166.1	Ca_Kabuli_Chr07	34158434	AA	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56170_A_34158467	NC_021166.1	Ca_Kabuli_Chr07	34158467	AA	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56171_A_34158520	NC_021166.1	Ca_Kabuli_Chr07	34158520	AA	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56172_A_34158521	NC_021166.1	Ca_Kabuli_Chr07	34158521	AA	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56173_A_34158663	NC_021166.1	Ca_Kabuli_Chr07	34158663	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56174_A_34158753	NC_021166.1	Ca_Kabuli_Chr07	34158753	TT	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56175_A_34158808	NC_021166.1	Ca_Kabuli_Chr07	34158808	CC	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56176_A_34158811	NC_021166.1	Ca_Kabuli_Chr07	34158811	GG	AA	AA	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56177_A_34158828	NC_021166.1	Ca_Kabuli_Chr07	34158828	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56178_A_34158884	NC_021166.1	Ca_Kabuli_Chr07	34158884	GG	AA	AA	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56179_A_34158885	NC_021166.1	Ca_Kabuli_Chr07	34158885	AA	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56180_A_34158914	NC_021166.1	Ca_Kabuli_Chr07	34158914	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56181_A_34159108	NC_021166.1	Ca_Kabuli_Chr07	34159108	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56182_A_34159159	NC_021166.1	Ca_Kabuli_Chr07	34159159	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56184_A_34159252	NC_021166.1	Ca_Kabuli_Chr07	34159252	CC	AA	AA	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56185_A_34160940	NC_021166.1	Ca_Kabuli_Chr07	34160940	AA	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56186_A_34160941	NC_021166.1	Ca_Kabuli_Chr07	34160941	AA	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56187_A_34161026	NC_021166.1	Ca_Kabuli_Chr07	34161026	TT	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56188_A_34161034	NC_021166.1	Ca_Kabuli_Chr07	34161034	TT	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56190_A_34161098	NC_021166.1	Ca_Kabuli_Chr07	34161098	CC	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56191_A_34161120	NC_021166.1	Ca_Kabuli_Chr07	34161120	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56192_A_34161138	NC_021166.1	Ca_Kabuli_Chr07	34161138	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56193_A_34161242	NC_021166.1	Ca_Kabuli_Chr07	34161242	CC	GG	GG	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56194_A_34161302	NC_021166.1	Ca_Kabuli_Chr07	34161302	CC	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56195_A_34161325	NC_021166.1	Ca_Kabuli_Chr07	34161325	GG	AA	AA	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56196_A_34162622	NC_021166.1	Ca_Kabuli_Chr07	34162622	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56197_A_34165285	NC_021166.1	Ca_Kabuli_Chr07	34165285	TT	CC	CC	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56198_A_34166663	NC_021166.1	Ca_Kabuli_Chr07	34166663	GG	TT	TT	INTRON	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56199_A_34168487	NC_021166.1	Ca_Kabuli_Chr07	34168487	CC	TT	TT	URR	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56200_A_34168790	NC_021166.1	Ca_Kabuli_Chr07	34168790	GG	AA	AA	URR	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56201_A_34168811	NC_021166.1	Ca_Kabuli_Chr07	34168811	TT	CC	CC	URR	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56202_A_34169404	NC_021166.1	Ca_Kabuli_Chr07	34169404	CC	TT	TT	URR	101496156	DNA-directed RNA polymerase III subunit RPC2
SNP_56203_A_34170370	NC_021166.1	Ca_Kabuli_Chr07	34170370	TT	GG	GG	INTERGENIC		
SNP_56204_A_34170665	NC_021166.1	Ca_Kabuli_Chr07	34170665	AA	GG	GG	INTERGENIC		
SNP_56205_A_34170827	NC_021166.1	Ca_Kabuli_Chr07	34170827	CC	TT	TT	INTERGENIC		
SNP_56206_A_34170833	NC_021166.1	Ca_Kabuli_Chr07	34170833	CC	TT	TT	INTERGENIC		
SNP_56207_A_34170867	NC_021166.1	Ca_Kabuli_Chr07	34170867	CC	TT	TT	INTERGENIC		
SNP_56208_A_34171193	NC_021166.1	Ca_Kabuli_Chr07	34171193	AA	CC	CC	INTERGENIC		
SNP_56209_A_34172767	NC_021166.1	Ca_Kabuli_Chr07	34172767	GG	AA	AA	INTERGENIC		
SNP_56210_A_34172821	NC_021166.1	Ca_Kabuli_Chr07	34172821	CC	TT	TT	INTERGENIC		
SNP_56211_A_34172844	NC_021166.1	Ca_Kabuli_Chr07	34172844	AA	GG	GG	INTERGENIC		
SNP_56213_A_34173177	NC_021166.1	Ca_Kabuli_Chr07	34173177	GG	TT	TT	INTERGENIC		
SNP_56214_A_34173184	NC_021166.1	Ca_Kabuli_Chr07	34173184	CC	TT	TT	INTERGENIC		
SNP_56215_A_34173214	NC_021166.1	Ca_Kabuli_Chr07	34173214	CC	TT	TT	INTERGENIC		
SNP_56217_A_34173561	NC_021166.1	Ca_Kabuli_Chr07	34173561	CC	AA	AA	INTERGENIC		
SNP_56218_A_34173642	NC_021166.1	Ca_Kabuli_Chr07	34173642	AA	GG	GG	INTERGENIC		
SNP_56219_A_34173807	NC_021166.1	Ca_Kabuli_Chr07	34173807	CC	TT	TT	INTERGENIC		
SNP_56220_A_34173929	NC_021166.1	Ca_Kabuli_Chr07	34173929	AA	CC	CC	INTERGENIC		
SNP_56222_A_34174120	NC_021166.1	Ca_Kabuli_Chr07	34174120	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56223_A_34174552	NC_021166.1	Ca_Kabuli_Chr07	34174552	TT	CC	CC	INTERGENIC			
SNP_56224_A_34174573	NC_021166.1	Ca_Kabuli_Chr07	34174573	TT	AA	AA	INTERGENIC			
SNP_56225_A_34176096	NC_021166.1	Ca_Kabuli_Chr07	34176096	TT	CC	CC	INTERGENIC			
SNP_56226_A_34176684	NC_021166.1	Ca_Kabuli_Chr07	34176684	AA	GG	GG	INTERGENIC			
SNP_56227_A_34176703	NC_021166.1	Ca_Kabuli_Chr07	34176703	TT	AA	AA	INTERGENIC			
SNP_56229_A_34176794	NC_021166.1	Ca_Kabuli_Chr07	34176794	GG	TT	TT	INTERGENIC			
SNP_56230_A_34176833	NC_021166.1	Ca_Kabuli_Chr07	34176833	TT	CC	CC	INTERGENIC			
SNP_56231_A_34176875	NC_021166.1	Ca_Kabuli_Chr07	34176875	AA	GG	GG	INTERGENIC			
SNP_56232_A_34176879	NC_021166.1	Ca_Kabuli_Chr07	34176879	GG	TT	TT	INTERGENIC			
SNP_56233_A_34176889	NC_021166.1	Ca_Kabuli_Chr07	34176889	GG	AA	AA	INTERGENIC			
SNP_56234_A_34176909	NC_021166.1	Ca_Kabuli_Chr07	34176909	AA	GG	GG	INTERGENIC			
SNP_56235_A_34176917	NC_021166.1	Ca_Kabuli_Chr07	34176917	AA	GG	GG	INTERGENIC			
SNP_56236_A_34176934	NC_021166.1	Ca_Kabuli_Chr07	34176934	GG	TT	TT	INTERGENIC			
SNP_56237_A_34177125	NC_021166.1	Ca_Kabuli_Chr07	34177125	AA	GG	GG	INTERGENIC			
SNP_56238_A_34177167	NC_021166.1	Ca_Kabuli_Chr07	34177167	AA	GG	GG	INTERGENIC			
SNP_56239_A_34177183	NC_021166.1	Ca_Kabuli_Chr07	34177183	GG	AA	AA	INTERGENIC			
SNP_56240_A_34177815	NC_021166.1	Ca_Kabuli_Chr07	34177815	CC	TT	TT	DRR	101496484	uncharacterized LOC101496484	
SNP_56241_A_34177852	NC_021166.1	Ca_Kabuli_Chr07	34177852	GG	AA	AA	DRR	101496484	uncharacterized LOC101496484	
SNP_56242_A_34177855	NC_021166.1	Ca_Kabuli_Chr07	34177855	TT	AA	AA	DRR	101496484	uncharacterized LOC101496484	
SNP_56243_A_34178030	NC_021166.1	Ca_Kabuli_Chr07	34178030	GG	AA	AA	DRR	101496484	uncharacterized LOC101496484	
SNP_56244_A_34178169	NC_021166.1	Ca_Kabuli_Chr07	34178169	GG	CC	CC	DRR	101496484	uncharacterized LOC101496484	
SNP_56245_A_34178175	NC_021166.1	Ca_Kabuli_Chr07	34178175	GG	AA	AA	DRR	101496484	uncharacterized LOC101496484	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56246_A_34178216	NC_021166.1	Ca_Kabuli_Chr07	34178216	GG	AA	AA	DRR	101496484	uncharacterized LOC101496484
SNP_56247_A_34178222	NC_021166.1	Ca_Kabuli_Chr07	34178222	CC	GG	GG	DRR	101496484	uncharacterized LOC101496484
SNP_56248_A_34180359	NC_021166.1	Ca_Kabuli_Chr07	34180359	AA	GG	GG	INTRON	101496484	uncharacterized LOC101496484
SNP_56250_A_34182514	NC_021166.1	Ca_Kabuli_Chr07	34182514	AA	TT	TT	INTERGENIC		
SNP_56251_A_34182996	NC_021166.1	Ca_Kabuli_Chr07	34182996	GG	AA	AA	URR	101496484	uncharacterized LOC101496484
SNP_56252_A_34183011	NC_021166.1	Ca_Kabuli_Chr07	34183011	TT	CC	CC	URR	101496484	uncharacterized LOC101496484
SNP_56253_A_34183024	NC_021166.1	Ca_Kabuli_Chr07	34183024	AA	GG	GG	URR	101496484	uncharacterized LOC101496484
SNP_56254_A_34183047	NC_021166.1	Ca_Kabuli_Chr07	34183047	TT	CC	CC	URR	101496484	uncharacterized LOC101496484
SNP_56255_A_34183901	NC_021166.1	Ca_Kabuli_Chr07	34183901	CC	TT	TT	URR	101496484	uncharacterized LOC101496484
SNP_56257_A_34189566	NC_021166.1	Ca_Kabuli_Chr07	34189566	TT	AA	AA	URR	101496820	uncharacterized protein C23H3.12c
SNP_56259_A_34189894	NC_021166.1	Ca_Kabuli_Chr07	34189894	TT	CC	CC	URR	101496820	uncharacterized protein C23H3.12c
SNP_56260_A_34191646	NC_021166.1	Ca_Kabuli_Chr07	34191646	CC	TT	TT	DRR	101497140	26S protease regulatory subunit 7
SNP_56261_A_34191798	NC_021166.1	Ca_Kabuli_Chr07	34191798	GG	TT	TT	INTERGENIC		
SNP_56262_A_34196726	NC_021166.1	Ca_Kabuli_Chr07	34196726	AA	GG	GG	URR	101497140	26S protease regulatory subunit 7
SNP_56263_A_34198836	NC_021166.1	Ca_Kabuli_Chr07	34198836	CC	AA	AA	INTERGENIC		
SNP_56264_A_34200071	NC_021166.1	Ca_Kabuli_Chr07	34200071	CC	AA	AA	INTERGENIC		
SNP_56265_A_34203577	NC_021166.1	Ca_Kabuli_Chr07	34203577	GG	TT	TT	URR	101497474	protein STRUBBELIG-RECEPTOR FAMILY 6
SNP_56266_A_34205488	NC_021166.1	Ca_Kabuli_Chr07	34205488	GG	AA	AA	INTERGENIC		
SNP_56267_A_34206216	NC_021166.1	Ca_Kabuli_Chr07	34206216	GG	CC	CC	DRR	101498128	probable splicing factor 3A subunit 1
SNP_56268_A_34211501	NC_021166.1	Ca_Kabuli_Chr07	34211501	CC	TT	TT	URR	101498128	probable splicing factor 3A subunit 1
SNP_56269_A_34211513	NC_021166.1	Ca_Kabuli_Chr07	34211513	TT	CC	CC	URR	101498128	probable splicing factor 3A subunit 1
SNP_56270_A_34211571	NC_021166.1	Ca_Kabuli_Chr07	34211571	AA	CC	CC	URR	101498128	probable splicing factor 3A subunit 1

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SNP_56271_A_34211581	NC_021166.1	Ca_Kabuli_Chr07	34211581	TT	CC	CC	URR	101498128	probable splicing factor 3A subunit 1
SNP_56272_A_34211583	NC_021166.1	Ca_Kabuli_Chr07	34211583	AA	GG	GG	URR	101498128	probable splicing factor 3A subunit 1
SNP_56273_A_34211586	NC_021166.1	Ca_Kabuli_Chr07	34211586	TT	CC	CC	URR	101498128	probable splicing factor 3A subunit 1
SNP_56274_A_34211602	NC_021166.1	Ca_Kabuli_Chr07	34211602	AA	GG	GG	URR	101498128	probable splicing factor 3A subunit 1
SNP_56275_A_34213656	NC_021166.1	Ca_Kabuli_Chr07	34213656	GG	AA	AA	INTERGENIC		
SNP_56276_A_34213712	NC_021166.1	Ca_Kabuli_Chr07	34213712	TT	CC	CC	INTERGENIC		
SNP_56277_A_34213955	NC_021166.1	Ca_Kabuli_Chr07	34213955	CC	TT	TT	INTERGENIC		
SNP_56279_A_34214028	NC_021166.1	Ca_Kabuli_Chr07	34214028	TT	GG	GG	INTERGENIC		
SNP_56280_A_34214041	NC_021166.1	Ca_Kabuli_Chr07	34214041	AA	GG	GG	INTERGENIC		
SNP_56281_A_34216009	NC_021166.1	Ca_Kabuli_Chr07	34216009	AA	TT	TT	URR	101497810	Unknown function
SNP_56282_A_34217123	NC_021166.1	Ca_Kabuli_Chr07	34217123	TT	CC	CC	DRR	101498804	uncharacterized protein C630.12
SNP_56283_A_34217365	NC_021166.1	Ca_Kabuli_Chr07	34217365	CC	TT	TT	DRR	101498804	uncharacterized protein C630.12
SNP_56284_A_34221101	NC_021166.1	Ca_Kabuli_Chr07	34221101	CC	GG	GG	INTRON	101498804	uncharacterized protein C630.12
SNP_56285_A_34226137	NC_021166.1	Ca_Kabuli_Chr07	34226137	TT	CC	CC	DRR	101499322	uncharacterized LOC101499322
SNP_56286_A_34226463	NC_021166.1	Ca_Kabuli_Chr07	34226463	GG	CC	CC	DRR	101499322	uncharacterized LOC101499322
SNP_56287_A_34226776	NC_021166.1	Ca_Kabuli_Chr07	34226776	CC	TT	TT	INTERGENIC		
SNP_56288_A_34227564	NC_021166.1	Ca_Kabuli_Chr07	34227564	AA	GG	GG	SYNONYMOUS_CODING	101499322	uncharacterized LOC101499322
SNP_56289_A_34227585	NC_021166.1	Ca_Kabuli_Chr07	34227585	TT	CC	CC	SYNONYMOUS_CODING	101499322	uncharacterized LOC101499322
SNP_56290_A_34231885	NC_021166.1	Ca_Kabuli_Chr07	34231885	CC	AA	AA	URR	101499322	uncharacterized LOC101499322
SNP_56291_A_34238745	NC_021166.1	Ca_Kabuli_Chr07	34238745	AA	TT	TT	URR	101500056	tyrosine-sulfated glycopeptide receptor 1
SNP_56292_A_34238749	NC_021166.1	Ca_Kabuli_Chr07	34238749	GG	CC	CC	URR	101500056	tyrosine-sulfated glycopeptide receptor 1
SNP_56293_A_34238769	NC_021166.1	Ca_Kabuli_Chr07	34238769	AA	GG	GG	URR	101500056	tyrosine-sulfated glycopeptide receptor 1

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SNP_56294_A_34238779	NC_021166.1	Ca_Kabuli_Chr07	34238779	TT	CC	CC	URR	101500056	tyrosine-sulfated glycopeptide receptor 1
SNP_56296_A_34241469	NC_021166.1	Ca_Kabuli_Chr07	34241469	GG	AA	AA	INTERGENIC		
SNP_56298_A_34241711	NC_021166.1	Ca_Kabuli_Chr07	34241711	TT	CC	CC	INTERGENIC		
SNP_56299_A_34242901	NC_021166.1	Ca_Kabuli_Chr07	34242901	AA	GG	GG	INTERGENIC		
SNP_56300_A_34243677	NC_021166.1	Ca_Kabuli_Chr07	34243677	TT	GG	GG	INTERGENIC		
SNP_56301_A_34245938	NC_021166.1	Ca_Kabuli_Chr07	34245938	AA	GG	GG	INTERGENIC		
SNP_56302_A_34246491	NC_021166.1	Ca_Kabuli_Chr07	34246491	AA	GG	GG	INTERGENIC		
SNP_56303_A_34250847	NC_021166.1	Ca_Kabuli_Chr07	34250847	TT	CC	CC	DRR	101500391	transcription factor 25
SNP_56304_A_34251151	NC_021166.1	Ca_Kabuli_Chr07	34251151	AA	TT	TT	DRR	101500391	transcription factor 25
SNP_56306_A_34254859	NC_021166.1	Ca_Kabuli_Chr07	34254859	TT	AA	AA	NON_SYNONYMOUS_CODING	101500391	transcription factor 25
SNP_56307_A_34255745	NC_021166.1	Ca_Kabuli_Chr07	34255745	TT	CC	CC	INTERGENIC		
SNP_56309_A_34256685	NC_021166.1	Ca_Kabuli_Chr07	34256685	AA	GG	GG	URR	101500391	transcription factor 25
SNP_56310_A_34256708	NC_021166.1	Ca_Kabuli_Chr07	34256708	TT	CC	CC	URR	101500391	transcription factor 25
SNP_56311_A_34256912	NC_021166.1	Ca_Kabuli_Chr07	34256912	CC	TT	TT	URR	101500391	transcription factor 25
SNP_56312_A_34256914	NC_021166.1	Ca_Kabuli_Chr07	34256914	CC	TT	TT	URR	101500391	transcription factor 25
SNP_56313_A_34256924	NC_021166.1	Ca_Kabuli_Chr07	34256924	TT	CC	CC	URR	101500391	transcription factor 25
SNP_56314_A_34256988	NC_021166.1	Ca_Kabuli_Chr07	34256988	CC	TT	TT	DRR	101500701	uncharacterized protein C594.04c
SNP_56315_A_34256993	NC_021166.1	Ca_Kabuli_Chr07	34256993	TT	CC	CC	DRR	101500701	uncharacterized protein C594.04c
SNP_56316_A_34260597	NC_021166.1	Ca_Kabuli_Chr07	34260597	AA	CC	CC	URR	101500701	uncharacterized protein C594.04c
SNP_56317_A_34261305	NC_021166.1	Ca_Kabuli_Chr07	34261305	TT	GG	GG	URR	101500701	uncharacterized protein C594.04c
SNP_56318_A_34261626	NC_021166.1	Ca_Kabuli_Chr07	34261626	GG	AA	AA	DRR	101501016	probable inactive purple acid phosphatase 29-like
SNP_56319_A_34262053	NC_021166.1	Ca_Kabuli_Chr07	34262053	CC	TT	TT	DRR	101501016	probable inactive purple acid phosphatase 29-like

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SNP_56320_A_34265788	NC_021166.1	Ca_Kabuli_Chr07	34265788	CC	TT	TT	INTERGENIC		
SNP_56321_A_34265850	NC_021166.1	Ca_Kabuli_Chr07	34265850	GG	TT	TT	INTERGENIC		
SNP_56322_A_34266858	NC_021166.1	Ca_Kabuli_Chr07	34266858	TT	CC	CC	DRR	101506807	probable inactive purple acid phosphatase 29
SNP_56323_A_34266901	NC_021166.1	Ca_Kabuli_Chr07	34266901	AA	TT	TT	DRR	101506807	probable inactive purple acid phosphatase 29
SNP_56324_A_34266919	NC_021166.1	Ca_Kabuli_Chr07	34266919	GG	TT	TT	DRR	101506807	probable inactive purple acid phosphatase 29
SNP_56325_A_34266976	NC_021166.1	Ca_Kabuli_Chr07	34266976	TT	AA	AA	DRR	101506807	probable inactive purple acid phosphatase 29
SNP_56326_A_34267557	NC_021166.1	Ca_Kabuli_Chr07	34267557	TT	GG	GG	URR	101501016	probable inactive purple acid phosphatase 29-like
SNP_56327_A_34274323	NC_021166.1	Ca_Kabuli_Chr07	34274323	TT	AA	AA	DRR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56330_A_34276187	NC_021166.1	Ca_Kabuli_Chr07	34276187	TT	CC	CC	INTRON	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56332_A_34277102	NC_021166.1	Ca_Kabuli_Chr07	34277102	CC	AA	AA	INTERGENIC		
SNP_56334_A_34277639	NC_021166.1	Ca_Kabuli_Chr07	34277639	AA	GG	GG	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56335_A_34277676	NC_021166.1	Ca_Kabuli_Chr07	34277676	AA	GG	GG	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56336_A_34277719	NC_021166.1	Ca_Kabuli_Chr07	34277719	GG	AA	AA	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56337_A_34277733	NC_021166.1	Ca_Kabuli_Chr07	34277733	TT	CC	CC	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56338_A_34277950	NC_021166.1	Ca_Kabuli_Chr07	34277950	TT	CC	CC	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56339_A_34277961	NC_021166.1	Ca_Kabuli_Chr07	34277961	CC	TT	TT	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56340_A_34278198	NC_021166.1	Ca_Kabuli_Chr07	34278198	AA	GG	GG	URR	101502294	chlorophyll a-b binding protein 7, chloroplastic
SNP_56342_A_34281988	NC_021166.1	Ca_Kabuli_Chr07	34281988	CC	TT	TT	INTRON	101502814	ribosome production factor 1
SNP_56343_A_34283545	NC_021166.1	Ca_Kabuli_Chr07	34283545	CC	AA	AA	URR	101502814	ribosome production factor 1
SNP_56345_A_34284017	NC_021166.1	Ca_Kabuli_Chr07	34284017	AA	CC	CC	URR	101502814	ribosome production factor 1
SNP_56346_A_34284092	NC_021166.1	Ca_Kabuli_Chr07	34284092	AA	GG	GG	URR	101502814	ribosome production factor 1
SNP_56347_A_34285790	NC_021166.1	Ca_Kabuli_Chr07	34285790	CC	TT	TT	INTERGENIC		

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SNP_56349_A_34286443	NC_021166.1	Ca_Kabuli_Chr07	34286443	AA	GG	GG	INTERGENIC		
SNP_56350_A_34286455	NC_021166.1	Ca_Kabuli_Chr07	34286455	GG	CC	CC	INTERGENIC		
SNP_56352_A_34286568	NC_021166.1	Ca_Kabuli_Chr07	34286568	TT	CC	CC	INTERGENIC		
SNP_56353_A_34291683	NC_021166.1	Ca_Kabuli_Chr07	34291683	CC	AA	AA	SYNONYMOUS_CODING	101503137	uncharacterized calcium-binding protein At1g02270-like
SNP_56354_A_34293008	NC_021166.1	Ca_Kabuli_Chr07	34293008	GG	AA	AA	URR	101503137	uncharacterized calcium-binding protein At1g02270-like
SNP_56355_A_34293251	NC_021166.1	Ca_Kabuli_Chr07	34293251	AA	CC	CC	URR	101503137	uncharacterized calcium-binding protein At1g02270-like
SNP_56356_A_34293300	NC_021166.1	Ca_Kabuli_Chr07	34293300	TT	CC	CC	URR	101503137	uncharacterized calcium-binding protein At1g02270-like
SNP_56357_A_34294085	NC_021166.1	Ca_Kabuli_Chr07	34294085	GG	AA	AA	URR	101503137	uncharacterized calcium-binding protein At1g02270-like
SNP_56358_A_34295117	NC_021166.1	Ca_Kabuli_Chr07	34295117	AA	TT	TT	INTERGENIC		
SNP_56360_A_34296549	NC_021166.1	Ca_Kabuli_Chr07	34296549	AA	GG	GG	DRR	101503457	protein NTM1-like 9
SNP_56361_A_34296558	NC_021166.1	Ca_Kabuli_Chr07	34296558	GG	AA	AA	DRR	101503457	protein NTM1-like 9
SNP_56362_A_34299119	NC_021166.1	Ca_Kabuli_Chr07	34299119	TT	AA	AA	NON_SYNONYMOUS_CODING	101503457	protein NTM1-like 9
SNP_56363_A_34300258	NC_021166.1	Ca_Kabuli_Chr07	34300258	TT	AA	AA	NON_SYNONYMOUS_CODING	101503457	protein NTM1-like 9
SNP_56364_A_34302411	NC_021166.1	Ca_Kabuli_Chr07	34302411	GG	AA	AA	URR	101503457	protein NTM1-like 9
SNP_56365_A_34302446	NC_021166.1	Ca_Kabuli_Chr07	34302446	GG	AA	AA	URR	101503457	protein NTM1-like 9
SNP_56366_A_34302473	NC_021166.1	Ca_Kabuli_Chr07	34302473	CC	TT	TT	URR	101503457	protein NTM1-like 9
SNP_56367_A_34303659	NC_021166.1	Ca_Kabuli_Chr07	34303659	AA	GG	GG	INTERGENIC		
SNP_56368_A_34303675	NC_021166.1	Ca_Kabuli_Chr07	34303675	AA	GG	GG	INTERGENIC		
SNP_56370_A_34305279	NC_021166.1	Ca_Kabuli_Chr07	34305279	CC	TT	TT	INTERGENIC		
SNP_56372_A_34307163	NC_021166.1	Ca_Kabuli_Chr07	34307163	GG	TT	TT	INTERGENIC		
SNP_56373_A_34307206	NC_021166.1	Ca_Kabuli_Chr07	34307206	TT	CC	CC	INTERGENIC		
SNP_56374_A_34307275	NC_021166.1	Ca_Kabuli_Chr07	34307275	GG	AA	AA	INTERGENIC		

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SNP_56375_A_34307296	NC_021166.1	Ca_Kabuli_Chr07	34307296	GG	AA	AA	INTERGENIC		
SNP_56376_A_34307316	NC_021166.1	Ca_Kabuli_Chr07	34307316	GG	AA	AA	INTERGENIC		
SNP_56377_A_34307347	NC_021166.1	Ca_Kabuli_Chr07	34307347	AA	GG	GG	INTERGENIC		
SNP_56378_A_34311824	NC_021166.1	Ca_Kabuli_Chr07	34311824	GG	AA	AA	INTERGENIC		
SNP_56379_A_34312060	NC_021166.1	Ca_Kabuli_Chr07	34312060	AA	GG	GG	INTERGENIC		
SNP_56380_A_34312092	NC_021166.1	Ca_Kabuli_Chr07	34312092	AA	GG	GG	INTERGENIC		
SNP_56382_A_34312212	NC_021166.1	Ca_Kabuli_Chr07	34312212	GG	AA	AA	INTERGENIC		
SNP_56384_A_34312486	NC_021166.1	Ca_Kabuli_Chr07	34312486	GG	AA	AA	INTERGENIC		
SNP_56385_A_34312625	NC_021166.1	Ca_Kabuli_Chr07	34312625	CC	GG	GG	INTERGENIC		
SNP_56387_A_34312823	NC_021166.1	Ca_Kabuli_Chr07	34312823	GG	AA	AA	INTERGENIC		
SNP_56388_A_34312993	NC_021166.1	Ca_Kabuli_Chr07	34312993	TT	CC	CC	INTERGENIC		
SNP_56389_A_34313116	NC_021166.1	Ca_Kabuli_Chr07	34313116	TT	CC	CC	INTERGENIC		
SNP_56390_A_34313455	NC_021166.1	Ca_Kabuli_Chr07	34313455	CC	AA	AA	INTERGENIC		
SNP_56392_A_34314834	NC_021166.1	Ca_Kabuli_Chr07	34314834	CC	TT	TT	INTERGENIC		
SNP_56393_A_34314840	NC_021166.1	Ca_Kabuli_Chr07	34314840	TT	CC	CC	INTERGENIC		
SNP_56394_A_34316134	NC_021166.1	Ca_Kabuli_Chr07	34316134	AA	GG	GG	DRR	101503796	uncharacterized LOC101503796
SNP_56395_A_34316149	NC_021166.1	Ca_Kabuli_Chr07	34316149	CC	AA	AA	DRR	101503796	uncharacterized LOC101503796
SNP_56396_A_34316195	NC_021166.1	Ca_Kabuli_Chr07	34316195	TT	CC	CC	DRR	101503796	uncharacterized LOC101503796
SNP_56397_A_34316907	NC_021166.1	Ca_Kabuli_Chr07	34316907	TT	CC	CC	INTRON	101503796	uncharacterized LOC101503796
SNP_56398_A_34318115	NC_021166.1	Ca_Kabuli_Chr07	34318115	AA	TT	TT	INTRON	101503796	uncharacterized LOC101503796
SNP_56399_A_34318210	NC_021166.1	Ca_Kabuli_Chr07	34318210	AA	TT	TT	INTRON	101503796	uncharacterized LOC101503796
SNP_56402_A_34321084	NC_021166.1	Ca_Kabuli_Chr07	34321084	TT	GG	GG	INTRON	101503796	uncharacterized LOC101503796

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56404_A_34321212	NC_021166.1	Ca_Kabuli_Chr07	34321212	AA	TT	TT	INTRON	101503796	uncharacterized LOC101503796
SNP_56405_A_34321265	NC_021166.1	Ca_Kabuli_Chr07	34321265	TT	GG	GG	URR	101503796	uncharacterized LOC101503796
SNP_56406_A_34323682	NC_021166.1	Ca_Kabuli_Chr07	34323682	AA	GG	GG	INTERGENIC		
SNP_56408_A_34323973	NC_021166.1	Ca_Kabuli_Chr07	34323973	GG	AA	AA	INTERGENIC		
SNP_56409_A_34324147	NC_021166.1	Ca_Kabuli_Chr07	34324147	AA	TT	TT	INTERGENIC		
SNP_56410_A_34324184	NC_021166.1	Ca_Kabuli_Chr07	34324184	TT	CC	CC	INTERGENIC		
SNP_56411_A_34324207	NC_021166.1	Ca_Kabuli_Chr07	34324207	TT	CC	CC	INTERGENIC		
SNP_56413_A_34331412	NC_021166.1	Ca_Kabuli_Chr07	34331412	AA	CC	CC	INTERGENIC		
SNP_56414_A_34331420	NC_021166.1	Ca_Kabuli_Chr07	34331420	TT	CC	CC	INTERGENIC		
SNP_56415_A_34331432	NC_021166.1	Ca_Kabuli_Chr07	34331432	TT	CC	CC	INTERGENIC		
SNP_56416_A_34331511	NC_021166.1	Ca_Kabuli_Chr07	34331511	TT	GG	GG	INTERGENIC		
SNP_56417_A_34331888	NC_021166.1	Ca_Kabuli_Chr07	34331888	TT	CC	CC	INTERGENIC		
SNP_56418_A_34335869	NC_021166.1	Ca_Kabuli_Chr07	34335869	TT	AA	AA	INTERGENIC		
SNP_56419_A_34335880	NC_021166.1	Ca_Kabuli_Chr07	34335880	TT	CC	CC	INTERGENIC		
SNP_56420_A_34336053	NC_021166.1	Ca_Kabuli_Chr07	34336053	AA	GG	GG	INTERGENIC		
SNP_56421_A_34336075	NC_021166.1	Ca_Kabuli_Chr07	34336075	AA	TT	TT	INTERGENIC		
SNP_56423_A_34337352	NC_021166.1	Ca_Kabuli_Chr07	34337352	TT	AA	AA	INTERGENIC		
SNP_56424_A_34337438	NC_021166.1	Ca_Kabuli_Chr07	34337438	AA	GG	GG	INTERGENIC		
SNP_56425_A_34337473	NC_021166.1	Ca_Kabuli_Chr07	34337473	GG	AA	AA	INTERGENIC		
SNP_56426_A_34337474	NC_021166.1	Ca_Kabuli_Chr07	34337474	CC	TT	TT	INTERGENIC		
SNP_56427_A_34337488	NC_021166.1	Ca_Kabuli_Chr07	34337488	AA	GG	GG	INTERGENIC		
SNP_56428_A_34337491	NC_021166.1	Ca_Kabuli_Chr07	34337491	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56430_A_34341950	NC_021166.1	Ca_Kabuli_Chr07	34341950	CC	TT	TT	INTERGENIC		
SNP_56431_A_34342001	NC_021166.1	Ca_Kabuli_Chr07	34342001	CC	TT	TT	INTERGENIC		
SNP_56432_A_34342017	NC_021166.1	Ca_Kabuli_Chr07	34342017	AA	GG	GG	INTERGENIC		
SNP_56433_A_34342018	NC_021166.1	Ca_Kabuli_Chr07	34342018	GG	TT	TT	INTERGENIC		
SNP_56434_A_34342021	NC_021166.1	Ca_Kabuli_Chr07	34342021	AA	GG	GG	INTERGENIC		
SNP_56435_A_34342022	NC_021166.1	Ca_Kabuli_Chr07	34342022	TT	CC	CC	INTERGENIC		
SNP_56437_A_34345292	NC_021166.1	Ca_Kabuli_Chr07	34345292	TT	AA	AA	INTERGENIC		
SNP_56438_A_34348298	NC_021166.1	Ca_Kabuli_Chr07	34348298	CC	AA	AA	DRR	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56439_A_34348300	NC_021166.1	Ca_Kabuli_Chr07	34348300	CC	TT	TT	DRR	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56440_A_34349619	NC_021166.1	Ca_Kabuli_Chr07	34349619	CC	GG	GG	INTRON	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56441_A_34349936	NC_021166.1	Ca_Kabuli_Chr07	34349936	GG	AA	AA	INTRON	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56442_A_34349957	NC_021166.1	Ca_Kabuli_Chr07	34349957	AA	GG	GG	INTRON	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56443_A_34349971	NC_021166.1	Ca_Kabuli_Chr07	34349971	TT	CC	CC	INTRON	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56444_A_34349978	NC_021166.1	Ca_Kabuli_Chr07	34349978	TT	CC	CC	INTRON	101504117	soluble inorganic pyrophosphatase 1-like
SNP_56446_A_34365572	NC_021166.1	Ca_Kabuli_Chr07	34365572	GG	CC	CC	NON_SYNONYMOUS_CODING	101504431	probably inactive receptor-like protein kinase At2g46850
SNP_56447_A_34368718	NC_021166.1	Ca_Kabuli_Chr07	34368718	GG	AA	AA	URR	101504431	probably inactive receptor-like protein kinase At2g46850
SNP_56448_A_34369376	NC_021166.1	Ca_Kabuli_Chr07	34369376	GG	AA	AA	INTERGENIC		
SNP_56449_A_34370177	NC_021166.1	Ca_Kabuli_Chr07	34370177	GG	CC	CC	INTERGENIC		
SNP_56450_A_34370952	NC_021166.1	Ca_Kabuli_Chr07	34370952	CC	GG	GG	INTERGENIC		
SNP_56451_A_34378637	NC_021166.1	Ca_Kabuli_Chr07	34378637	CC	TT	TT	INTRON	101504750	serine/threonine-protein kinase ULK3
SNP_56452_A_34383597	NC_021166.1	Ca_Kabuli_Chr07	34383597	GG	AA	AA	INTERGENIC		
SNP_56453_A_34383604	NC_021166.1	Ca_Kabuli_Chr07	34383604	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56455_A_34383864	NC_021166.1	Ca_Kabuli_Chr07	34383864	GG	TT	TT	INTERGENIC			
SNP_56456_A_34384009	NC_021166.1	Ca_Kabuli_Chr07	34384009	TT	CC	CC	INTERGENIC			
SNP_56457_A_34384021	NC_021166.1	Ca_Kabuli_Chr07	34384021	GG	AA	AA	INTERGENIC			
SNP_56458_A_34384036	NC_021166.1	Ca_Kabuli_Chr07	34384036	TT	CC	CC	INTERGENIC			
SNP_56459_A_34385221	NC_021166.1	Ca_Kabuli_Chr07	34385221	GG	AA	AA	INTERGENIC			
SNP_56460_A_34385224	NC_021166.1	Ca_Kabuli_Chr07	34385224	CC	TT	TT	INTERGENIC			
SNP_56461_A_34385227	NC_021166.1	Ca_Kabuli_Chr07	34385227	TT	CC	CC	INTERGENIC			
SNP_56462_A_34385234	NC_021166.1	Ca_Kabuli_Chr07	34385234	CC	TT	TT	INTERGENIC			
SNP_56463_A_34385235	NC_021166.1	Ca_Kabuli_Chr07	34385235	AA	GG	GG	INTERGENIC			
SNP_56464_A_34385238	NC_021166.1	Ca_Kabuli_Chr07	34385238	GG	AA	AA	INTERGENIC			
SNP_56465_A_34385450	NC_021166.1	Ca_Kabuli_Chr07	34385450	TT	AA	AA	INTERGENIC			
SNP_56466_A_34385815	NC_021166.1	Ca_Kabuli_Chr07	34385815	CC	GG	GG	INTERGENIC			
SNP_56467_A_34385861	NC_021166.1	Ca_Kabuli_Chr07	34385861	AA	GG	GG	INTERGENIC			
SNP_56468_A_34387778	NC_021166.1	Ca_Kabuli_Chr07	34387778	CC	TT	TT	INTERGENIC			
SNP_56469_A_34388111	NC_021166.1	Ca_Kabuli_Chr07	34388111	GG	AA	AA	INTERGENIC			
SNP_56470_A_34388352	NC_021166.1	Ca_Kabuli_Chr07	34388352	TT	CC	CC	INTERGENIC			
SNP_56471_A_34388354	NC_021166.1	Ca_Kabuli_Chr07	34388354	TT	AA	AA	INTERGENIC			
SNP_56472_A_34391546	NC_021166.1	Ca_Kabuli_Chr07	34391546	TT	CC	CC	INTERGENIC			
SNP_56474_A_34392028	NC_021166.1	Ca_Kabuli_Chr07	34392028	AA	GG	GG	INTERGENIC			
SNP_56475_A_34392556	NC_021166.1	Ca_Kabuli_Chr07	34392556	TT	CC	CC	INTERGENIC			
SNP_56476_A_34392562	NC_021166.1	Ca_Kabuli_Chr07	34392562	CC	TT	TT	INTERGENIC			
SNP_56477_A_34392592	NC_021166.1	Ca_Kabuli_Chr07	34392592	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56478_A_34392878	NC_021166.1	Ca_Kabuli_Chr07	34392878	GG	AA	AA	INTERGENIC		
SNP_56479_A_34405454	NC_021166.1	Ca_Kabuli_Chr07	34405454	TT	AA	AA	INTERGENIC		
SNP_56480_A_34407836	NC_021166.1	Ca_Kabuli_Chr07	34407836	AA	GG	GG	DRR	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56481_A_34407864	NC_021166.1	Ca_Kabuli_Chr07	34407864	AA	GG	GG	DRR	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56482_A_34408228	NC_021166.1	Ca_Kabuli_Chr07	34408228	TT	GG	GG	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56484_A_34408534	NC_021166.1	Ca_Kabuli_Chr07	34408534	TT	CC	CC	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56485_A_34408556	NC_021166.1	Ca_Kabuli_Chr07	34408556	GG	CC	CC	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56486_A_34408557	NC_021166.1	Ca_Kabuli_Chr07	34408557	TT	AA	AA	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56487_A_34408558	NC_021166.1	Ca_Kabuli_Chr07	34408558	GG	TT	TT	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56488_A_34408651	NC_021166.1	Ca_Kabuli_Chr07	34408651	GG	AA	AA	INTRON	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56489_A_34414333	NC_021166.1	Ca_Kabuli_Chr07	34414333	TT	AA	AA	URR	101505611	cyclic nucleotide-gated ion channel 1-like
SNP_56490_A_34451446	NC_021166.1	Ca_Kabuli_Chr07	34451446	AA	CC	CC	INTERGENIC		
SNP_56491_A_34492437	NC_021166.1	Ca_Kabuli_Chr07	34492437	GG	AA	AA	INTERGENIC		
SNP_56493_A_34605927	NC_021166.1	Ca_Kabuli_Chr07	34605927	TT	CC	CC	INTERGENIC		
SNP_56494_A_34605931	NC_021166.1	Ca_Kabuli_Chr07	34605931	TT	AA	AA	INTERGENIC		
SNP_56495_A_34661334	NC_021166.1	Ca_Kabuli_Chr07	34661334	TT	CC	CC	INTERGENIC		
SNP_56496_A_34674416	NC_021166.1	Ca_Kabuli_Chr07	34674416	AA	GG	GG	INTERGENIC		
SNP_56497_A_34676697	NC_021166.1	Ca_Kabuli_Chr07	34676697	AA	GG	GG	INTERGENIC		
SNP_56498_A_34676704	NC_021166.1	Ca_Kabuli_Chr07	34676704	TT	CC	CC	INTERGENIC		
SNP_56499_A_34779218	NC_021166.1	Ca_Kabuli_Chr07	34779218	CC	TT	TT	INTERGENIC		
SNP_56500_A_34792760	NC_021166.1	Ca_Kabuli_Chr07	34792760	AA	CC	CC	INTERGENIC		
SNP_56501_A_34792795	NC_021166.1	Ca_Kabuli_Chr07	34792795	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56502_A_34792796	NC_021166.1	Ca_Kabuli_Chr07	34792796	TT	CC	CC	INTERGENIC		
SNP_56503_A_34792870	NC_021166.1	Ca_Kabuli_Chr07	34792870	TT	GG	GG	INTERGENIC		
SNP_56504_A_34792969	NC_021166.1	Ca_Kabuli_Chr07	34792969	GG	TT	TT	INTERGENIC		
SNP_56505_A_34805194	NC_021166.1	Ca_Kabuli_Chr07	34805194	TT	AA	AA	INTERGENIC		
SNP_56506_A_34805199	NC_021166.1	Ca_Kabuli_Chr07	34805199	CC	TT	TT	INTERGENIC		
SNP_56507_A_34807649	NC_021166.1	Ca_Kabuli_Chr07	34807649	CC	TT	TT	INTERGENIC		
SNP_56508_A_34807692	NC_021166.1	Ca_Kabuli_Chr07	34807692	TT	CC	CC	INTERGENIC		
SNP_56509_A_34884970	NC_021166.1	Ca_Kabuli_Chr07	34884970	AA	GG	GG	INTERGENIC		
SNP_56510_A_34901758	NC_021166.1	Ca_Kabuli_Chr07	34901758	AA	GG	GG	NON_SYNONYMOUS_CODING	101514738	auxin response factor 16-like
SNP_56512_A_34961029	NC_021166.1	Ca_Kabuli_Chr07	34961029	AA	GG	GG	INTERGENIC		
SNP_56513_A_34981655	NC_021166.1	Ca_Kabuli_Chr07	34981655	AA	TT	TT	INTERGENIC		
SNP_56514_A_34989693	NC_021166.1	Ca_Kabuli_Chr07	34989693	TT	CC	CC	INTERGENIC		
SNP_56515_A_35007043	NC_021166.1	Ca_Kabuli_Chr07	35007043	TT	CC	CC	INTERGENIC		
SNP_56516_A_35013834	NC_021166.1	Ca_Kabuli_Chr07	35013834	TT	CC	CC	INTERGENIC		
SNP_56518_A_35041646	NC_021166.1	Ca_Kabuli_Chr07	35041646	TT	CC	CC	INTERGENIC		
SNP_56519_A_35059359	NC_021166.1	Ca_Kabuli_Chr07	35059359	GG	AA	AA	INTRON	101490119	uncharacterized LOC101490119
SNP_56520_A_35067686	NC_021166.1	Ca_Kabuli_Chr07	35067686	GG	AA	AA	DRR	101491185	Unknown function
SNP_56521_A_35069818	NC_021166.1	Ca_Kabuli_Chr07	35069818	CC	TT	TT	URR	101491185	Unknown function
SNP_56522_A_35084582	NC_021166.1	Ca_Kabuli_Chr07	35084582	AA	TT	TT	INTERGENIC		
SNP_56523_A_35087334	NC_021166.1	Ca_Kabuli_Chr07	35087334	GG	CC	CC	INTRON	101492136	auxin response factor 18
SNP_56524_A_35109099	NC_021166.1	Ca_Kabuli_Chr07	35109099	AA	GG	GG	INTERGENIC		
SNP_56525_A_35110128	NC_021166.1	Ca_Kabuli_Chr07	35110128	AA	TT	TT	DRR	101492715	exportin-2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56526_A_35115905	NC_021166.1	Ca_Kabuli_Chr07	35115905	TT	AA	AA	URR		101492715	exportin-2
SNP_56527_A_35116167	NC_021166.1	Ca_Kabuli_Chr07	35116167	CC	TT	TT	URR		101492715	exportin-2
SNP_56528_A_35116168	NC_021166.1	Ca_Kabuli_Chr07	35116168	CC	GG	GG	URR		101492715	exportin-2
SNP_56529_A_35116174	NC_021166.1	Ca_Kabuli_Chr07	35116174	CC	GG	GG	URR		101492715	exportin-2
SNP_56530_A_35116189	NC_021166.1	Ca_Kabuli_Chr07	35116189	GG	TT	TT	URR		101492715	exportin-2
SNP_56531_A_35117703	NC_021166.1	Ca_Kabuli_Chr07	35117703	AA	TT	TT	URR		101492715	exportin-2
SNP_56532_A_35117794	NC_021166.1	Ca_Kabuli_Chr07	35117794	AA	GG	GG	INTERGENIC			
SNP_56533_A_35118572	NC_021166.1	Ca_Kabuli_Chr07	35118572	TT	CC	CC	INTERGENIC			
SNP_56534_A_35118581	NC_021166.1	Ca_Kabuli_Chr07	35118581	CC	TT	TT	INTERGENIC			
SNP_56535_A_35119619	NC_021166.1	Ca_Kabuli_Chr07	35119619	CC	GG	GG	INTERGENIC			
SNP_56536_A_35121335	NC_021166.1	Ca_Kabuli_Chr07	35121335	AA	TT	TT	INTERGENIC			
SNP_56537_A_35121637	NC_021166.1	Ca_Kabuli_Chr07	35121637	AA	CC	CC	INTERGENIC			
SNP_56538_A_35121648	NC_021166.1	Ca_Kabuli_Chr07	35121648	TT	AA	AA	INTERGENIC			
SNP_56539_A_35121656	NC_021166.1	Ca_Kabuli_Chr07	35121656	CC	TT	TT	INTERGENIC			
SNP_56541_A_35122147	NC_021166.1	Ca_Kabuli_Chr07	35122147	AA	GG	GG	INTERGENIC			
SNP_56542_A_35130822	NC_021166.1	Ca_Kabuli_Chr07	35130822	GG	AA	AA	INTERGENIC			
SNP_56544_A_35131835	NC_021166.1	Ca_Kabuli_Chr07	35131835	AA	GG	GG	INTERGENIC			
SNP_56545_A_35131851	NC_021166.1	Ca_Kabuli_Chr07	35131851	TT	CC	CC	INTERGENIC			
SNP_56546_A_35132146	NC_021166.1	Ca_Kabuli_Chr07	35132146	GG	CC	CC	INTERGENIC			
SNP_56547_A_35136383	NC_021166.1	Ca_Kabuli_Chr07	35136383	TT	AA	AA	URR		101493048	ethylene-responsive transcription factor ERF023-like
SNP_56548_A_35136608	NC_021166.1	Ca_Kabuli_Chr07	35136608	CC	TT	TT	URR		101493048	ethylene-responsive transcription factor ERF023-like
SNP_56549_A_35136610	NC_021166.1	Ca_Kabuli_Chr07	35136610	AA	GG	GG	URR		101493048	ethylene-responsive transcription factor ERF023-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56550_A_35138263	NC_021166.1	Ca_Kabuli_Chr07	35138263	TT	CC	CC	INTERGENIC			
SNP_56552_A_35139224	NC_021166.1	Ca_Kabuli_Chr07	35139224	GG	AA	AA	INTERGENIC			
SNP_56553_A_35139245	NC_021166.1	Ca_Kabuli_Chr07	35139245	GG	AA	AA	INTERGENIC			
SNP_56554_A_35139262	NC_021166.1	Ca_Kabuli_Chr07	35139262	AA	GG	GG	INTERGENIC			
SNP_56555_A_35140993	NC_021166.1	Ca_Kabuli_Chr07	35140993	AA	GG	GG	INTERGENIC			
SNP_56556_A_35140994	NC_021166.1	Ca_Kabuli_Chr07	35140994	GG	AA	AA	INTERGENIC			
SNP_56557_A_35144048	NC_021166.1	Ca_Kabuli_Chr07	35144048	GG	AA	AA	INTERGENIC			
SNP_56558_A_35144138	NC_021166.1	Ca_Kabuli_Chr07	35144138	GG	AA	AA	INTERGENIC			
SNP_56559_A_35144282	NC_021166.1	Ca_Kabuli_Chr07	35144282	GG	AA	AA	INTERGENIC			
SNP_56560_A_35144737	NC_021166.1	Ca_Kabuli_Chr07	35144737	GG	AA	AA	INTERGENIC			
SNP_56561_A_35145327	NC_021166.1	Ca_Kabuli_Chr07	35145327	CC	AA	AA	INTERGENIC			
SNP_56562_A_35146255	NC_021166.1	Ca_Kabuli_Chr07	35146255	TT	AA	AA	INTERGENIC			
SNP_56563_A_35146267	NC_021166.1	Ca_Kabuli_Chr07	35146267	TT	CC	CC	INTERGENIC			
SNP_56564_A_35146268	NC_021166.1	Ca_Kabuli_Chr07	35146268	GG	AA	AA	INTERGENIC			
SNP_56565_A_35146284	NC_021166.1	Ca_Kabuli_Chr07	35146284	AA	GG	GG	INTERGENIC			
SNP_56566_A_35146690	NC_021166.1	Ca_Kabuli_Chr07	35146690	TT	CC	CC	INTERGENIC			
SNP_56567_A_35147393	NC_021166.1	Ca_Kabuli_Chr07	35147393	GG	TT	TT	INTERGENIC			
SNP_56568_A_35147569	NC_021166.1	Ca_Kabuli_Chr07	35147569	TT	CC	CC	INTERGENIC			
SNP_56570_A_35149160	NC_021166.1	Ca_Kabuli_Chr07	35149160	AA	CC	CC	INTERGENIC			
SNP_56571_A_35150066	NC_021166.1	Ca_Kabuli_Chr07	35150066	CC	TT	TT	INTERGENIC			
SNP_56573_A_35150338	NC_021166.1	Ca_Kabuli_Chr07	35150338	TT	CC	CC	INTERGENIC			
SNP_56574_A_35153608	NC_021166.1	Ca_Kabuli_Chr07	35153608	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56575_A_35154474	NC_021166.1	Ca_Kabuli_Chr07	35154474	TT	GG	GG	INTERGENIC			
SNP_56576_A_35154476	NC_021166.1	Ca_Kabuli_Chr07	35154476	AA	GG	GG	INTERGENIC			
SNP_56577_A_35154499	NC_021166.1	Ca_Kabuli_Chr07	35154499	AA	GG	GG	INTERGENIC			
SNP_56579_A_35154829	NC_021166.1	Ca_Kabuli_Chr07	35154829	CC	AA	AA	INTERGENIC			
SNP_56581_A_35154867	NC_021166.1	Ca_Kabuli_Chr07	35154867	CC	GG	GG	INTERGENIC			
SNP_56582_A_35163410	NC_021166.1	Ca_Kabuli_Chr07	35163410	AA	TT	TT	INTERGENIC			
SNP_56583_A_35165410	NC_021166.1	Ca_Kabuli_Chr07	35165410	GG	AA	AA	INTERGENIC			
SNP_56584_A_35165550	NC_021166.1	Ca_Kabuli_Chr07	35165550	AA	CC	CC	INTERGENIC			
SNP_56585_A_35165560	NC_021166.1	Ca_Kabuli_Chr07	35165560	CC	TT	TT	INTERGENIC			
SNP_56586_A_35166039	NC_021166.1	Ca_Kabuli_Chr07	35166039	GG	AA	AA	INTERGENIC			
SNP_56590_A_35166687	NC_021166.1	Ca_Kabuli_Chr07	35166687	TT	CC	CC	INTERGENIC			
SNP_56591_A_35166700	NC_021166.1	Ca_Kabuli_Chr07	35166700	TT	CC	CC	INTERGENIC			
SNP_56592_A_35172009	NC_021166.1	Ca_Kabuli_Chr07	35172009	AA	CC	CC	INTERGENIC			
SNP_56593_A_35172023	NC_021166.1	Ca_Kabuli_Chr07	35172023	CC	TT	TT	INTERGENIC			
SNP_56594_A_35172305	NC_021166.1	Ca_Kabuli_Chr07	35172305	AA	GG	GG	INTERGENIC			
SNP_56595_A_35172311	NC_021166.1	Ca_Kabuli_Chr07	35172311	CC	AA	AA	INTERGENIC			
SNP_56596_A_35172342	NC_021166.1	Ca_Kabuli_Chr07	35172342	GG	AA	AA	INTERGENIC			
SNP_56597_A_35172456	NC_021166.1	Ca_Kabuli_Chr07	35172456	CC	TT	TT	INTERGENIC			
SNP_56598_A_35172508	NC_021166.1	Ca_Kabuli_Chr07	35172508	AA	GG	GG	INTERGENIC			
SNP_56601_A_35175875	NC_021166.1	Ca_Kabuli_Chr07	35175875	AA	GG	GG	INTERGENIC			
SNP_56602_A_35175881	NC_021166.1	Ca_Kabuli_Chr07	35175881	TT	GG	GG	INTERGENIC			
SNP_56603_A_35175883	NC_021166.1	Ca_Kabuli_Chr07	35175883	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56604_A_35175919	NC_021166.1	Ca_Kabuli_Chr07	35175919	TT	CC	CC	INTERGENIC			
SNP_56606_A_35178741	NC_021166.1	Ca_Kabuli_Chr07	35178741	GG	AA	AA	DRR	101493372	transcription factor bHLH13-like	
SNP_56608_A_35182452	NC_021166.1	Ca_Kabuli_Chr07	35182452	GG	AA	AA	URR	101493372	transcription factor bHLH13-like	
SNP_56609_A_35182459	NC_021166.1	Ca_Kabuli_Chr07	35182459	TT	AA	AA	URR	101493372	transcription factor bHLH13-like	
SNP_56610_A_35186476	NC_021166.1	Ca_Kabuli_Chr07	35186476	CC	TT	TT	INTERGENIC			
SNP_56611_A_35187579	NC_021166.1	Ca_Kabuli_Chr07	35187579	AA	GG	GG	INTERGENIC			
SNP_56612_A_35187580	NC_021166.1	Ca_Kabuli_Chr07	35187580	CC	TT	TT	INTERGENIC			
SNP_56613_A_35187601	NC_021166.1	Ca_Kabuli_Chr07	35187601	CC	AA	AA	INTERGENIC			
SNP_56614_A_35189998	NC_021166.1	Ca_Kabuli_Chr07	35189998	GG	TT	TT	INTERGENIC			
SNP_56615_A_35190028	NC_021166.1	Ca_Kabuli_Chr07	35190028	TT	CC	CC	INTERGENIC			
SNP_56616_A_35190039	NC_021166.1	Ca_Kabuli_Chr07	35190039	AA	GG	GG	INTERGENIC			
SNP_56617_A_35206563	NC_021166.1	Ca_Kabuli_Chr07	35206563	CC	TT	TT	INTERGENIC			
SNP_56620_A_35207754	NC_021166.1	Ca_Kabuli_Chr07	35207754	AA	TT	TT	INTERGENIC			
SNP_56621_A_35209427	NC_021166.1	Ca_Kabuli_Chr07	35209427	AA	GG	GG	INTERGENIC			
SNP_56622_A_35210495	NC_021166.1	Ca_Kabuli_Chr07	35210495	GG	TT	TT	INTERGENIC			
SNP_56623_A_35210634	NC_021166.1	Ca_Kabuli_Chr07	35210634	TT	AA	AA	INTERGENIC			
SNP_56624_A_35210641	NC_021166.1	Ca_Kabuli_Chr07	35210641	AA	TT	TT	INTERGENIC			
SNP_56625_A_35211698	NC_021166.1	Ca_Kabuli_Chr07	35211698	CC	AA	AA	INTERGENIC			
SNP_56626_A_35212835	NC_021166.1	Ca_Kabuli_Chr07	35212835	GG	AA	AA	INTERGENIC			
SNP_56627_A_35213189	NC_021166.1	Ca_Kabuli_Chr07	35213189	TT	CC	CC	INTERGENIC			
SNP_56628_A_35213231	NC_021166.1	Ca_Kabuli_Chr07	35213231	TT	CC	CC	INTERGENIC			
SNP_56629_A_35213234	NC_021166.1	Ca_Kabuli_Chr07	35213234	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56630_A_35213498	NC_021166.1	Ca_Kabuli_Chr07	35213498	CC	TT	TT	INTERGENIC		
SNP_56631_A_35213557	NC_021166.1	Ca_Kabuli_Chr07	35213557	GG	TT	TT	INTERGENIC		
SNP_56634_A_35223514	NC_021166.1	Ca_Kabuli_Chr07	35223514	GG	TT	TT	URR	101493695	E3 ubiquitin-protein ligase SINAT3-like
SNP_56635_A_35224090	NC_021166.1	Ca_Kabuli_Chr07	35224090	TT	CC	CC	URR	101493695	E3 ubiquitin-protein ligase SINAT3-like
SNP_56636_A_35226950	NC_021166.1	Ca_Kabuli_Chr07	35226950	AA	TT	TT	INTERGENIC		
SNP_56638_A_35229064	NC_021166.1	Ca_Kabuli_Chr07	35229064	TT	CC	CC	URR	101494013	uncharacterized LOC101494013
SNP_56639_A_35229065	NC_021166.1	Ca_Kabuli_Chr07	35229065	TT	AA	AA	URR	101494013	uncharacterized LOC101494013
SNP_56640_A_35229292	NC_021166.1	Ca_Kabuli_Chr07	35229292	GG	TT	TT	URR	101494013	uncharacterized LOC101494013
SNP_56641_A_35230465	NC_021166.1	Ca_Kabuli_Chr07	35230465	TT	CC	CC	URR	101494013	uncharacterized LOC101494013
SNP_56642_A_35230516	NC_021166.1	Ca_Kabuli_Chr07	35230516	CC	TT	TT	URR	101494013	uncharacterized LOC101494013
SNP_56644_A_35230539	NC_021166.1	Ca_Kabuli_Chr07	35230539	GG	AA	AA	URR	101494013	uncharacterized LOC101494013
SNP_56646_A_35231556	NC_021166.1	Ca_Kabuli_Chr07	35231556	AA	TT	TT	DRR	101494537	uncharacterized LOC101494537
SNP_56647_A_35231570	NC_021166.1	Ca_Kabuli_Chr07	35231570	TT	GG	GG	DRR	101494537	uncharacterized LOC101494537
SNP_56648_A_35232076	NC_021166.1	Ca_Kabuli_Chr07	35232076	GG	TT	TT	INTERGENIC		
SNP_56649_A_35234563	NC_021166.1	Ca_Kabuli_Chr07	35234563	AA	GG	GG	INTERGENIC		
SNP_56650_A_35235964	NC_021166.1	Ca_Kabuli_Chr07	35235964	CC	TT	TT	INTERGENIC		
SNP_56651_A_35240821	NC_021166.1	Ca_Kabuli_Chr07	35240821	GG	AA	AA	INTERGENIC		
SNP_56652_A_35259033	NC_021166.1	Ca_Kabuli_Chr07	35259033	GG	CC	CC	INTERGENIC		
SNP_56653_A_35259804	NC_021166.1	Ca_Kabuli_Chr07	35259804	CC	TT	TT	INTERGENIC		
SNP_56654_A_35261789	NC_021166.1	Ca_Kabuli_Chr07	35261789	GG	AA	AA	INTERGENIC		
SNP_56655_A_35263308	NC_021166.1	Ca_Kabuli_Chr07	35263308	GG	AA	AA	DRR	101410578	transfer RNA alanine (anticodon CGC)
SNP_56656_A_35263422	NC_021166.1	Ca_Kabuli_Chr07	35263422	CC	TT	TT	DRR	101410578	transfer RNA alanine (anticodon CGC)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56657_A_35273352	NC_021166.1	Ca_Kabuli_Chr07	35273352	CC	TT	TT	INTERGENIC		
SNP_56658_A_35273353	NC_021166.1	Ca_Kabuli_Chr07	35273353	CC	TT	TT	INTERGENIC		
SNP_56660_A_35279507	NC_021166.1	Ca_Kabuli_Chr07	35279507	TT	CC	CC	INTRON	101495719	clustered mitochondria protein
SNP_56661_A_35283047	NC_021166.1	Ca_Kabuli_Chr07	35283047	TT	AA	AA	SYNONYMOUS_CODING	101495719	clustered mitochondria protein
SNP_56664_A_35290189	NC_021166.1	Ca_Kabuli_Chr07	35290189	TT	AA	AA	SYNONYMOUS_CODING	101495719	clustered mitochondria protein
SNP_56666_A_35292349	NC_021166.1	Ca_Kabuli_Chr07	35292349	GG	AA	AA	URR	101495719	clustered mitochondria protein
SNP_56670_A_35296716	NC_021166.1	Ca_Kabuli_Chr07	35296716	CC	TT	TT	INTERGENIC		
SNP_56671_A_35296759	NC_021166.1	Ca_Kabuli_Chr07	35296759	CC	TT	TT	INTERGENIC		
SNP_56672_A_35296763	NC_021166.1	Ca_Kabuli_Chr07	35296763	CC	TT	TT	INTERGENIC		
SNP_56673_A_35296912	NC_021166.1	Ca_Kabuli_Chr07	35296912	TT	CC	CC	INTERGENIC		
SNP_56674_A_35299814	NC_021166.1	Ca_Kabuli_Chr07	35299814	TT	CC	CC	INTERGENIC		
SNP_56675_A_35300471	NC_021166.1	Ca_Kabuli_Chr07	35300471	GG	AA	AA	INTERGENIC		
SNP_56676_A_35300824	NC_021166.1	Ca_Kabuli_Chr07	35300824	CC	TT	TT	INTERGENIC		
SNP_56677_A_35305229	NC_021166.1	Ca_Kabuli_Chr07	35305229	GG	AA	AA	INTERGENIC		
SNP_56678_A_35305917	NC_021166.1	Ca_Kabuli_Chr07	35305917	GG	AA	AA	INTERGENIC		
SNP_56679_A_35312126	NC_021166.1	Ca_Kabuli_Chr07	35312126	TT	CC	CC	INTERGENIC		
SNP_56680_A_35312128	NC_021166.1	Ca_Kabuli_Chr07	35312128	TT	CC	CC	INTERGENIC		
SNP_56681_A_35313603	NC_021166.1	Ca_Kabuli_Chr07	35313603	GG	AA	AA	INTERGENIC		
SNP_56683_A_35313830	NC_021166.1	Ca_Kabuli_Chr07	35313830	AA	TT	TT	INTERGENIC		
SNP_56684_A_35313839	NC_021166.1	Ca_Kabuli_Chr07	35313839	TT	GG	GG	INTERGENIC		
SNP_56685_A_35313872	NC_021166.1	Ca_Kabuli_Chr07	35313872	GG	TT	TT	INTERGENIC		
SNP_56686_A_35313952	NC_021166.1	Ca_Kabuli_Chr07	35313952	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56687_A_35313968	NC_021166.1	Ca_Kabuli_Chr07	35313968	CC	AA	AA	INTERGENIC		
SNP_56688_A_35313985	NC_021166.1	Ca_Kabuli_Chr07	35313985	CC	TT	TT	INTERGENIC		
SNP_56689_A_35315107	NC_021166.1	Ca_Kabuli_Chr07	35315107	CC	TT	TT	INTERGENIC		
SNP_56690_A_35315298	NC_021166.1	Ca_Kabuli_Chr07	35315298	GG	TT	TT	INTERGENIC		
SNP_56691_A_35316289	NC_021166.1	Ca_Kabuli_Chr07	35316289	CC	GG	GG	INTERGENIC		
SNP_56692_A_35316932	NC_021166.1	Ca_Kabuli_Chr07	35316932	AA	CC	CC	INTERGENIC		
SNP_56694_A_35318530	NC_021166.1	Ca_Kabuli_Chr07	35318530	AA	GG	GG	INTERGENIC		
SNP_56695_A_35320631	NC_021166.1	Ca_Kabuli_Chr07	35320631	CC	TT	TT	NON_SYNONYMOUS_CODING	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56696_A_35321927	NC_021166.1	Ca_Kabuli_Chr07	35321927	AA	CC	CC	INTRON	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56697_A_35322956	NC_021166.1	Ca_Kabuli_Chr07	35322956	CC	TT	TT	INTRON	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56699_A_35323102	NC_021166.1	Ca_Kabuli_Chr07	35323102	TT	CC	CC	INTRON	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56700_A_35323183	NC_021166.1	Ca_Kabuli_Chr07	35323183	TT	GG	GG	INTRON	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56701_A_35324207	NC_021166.1	Ca_Kabuli_Chr07	35324207	GG	AA	AA	INTRON	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56703_A_35332783	NC_021166.1	Ca_Kabuli_Chr07	35332783	AA	GG	GG	INTERGENIC		
SNP_56705_A_35333073	NC_021166.1	Ca_Kabuli_Chr07	35333073	TT	CC	CC	INTERGENIC		
SNP_56706_A_35333294	NC_021166.1	Ca_Kabuli_Chr07	35333294	TT	CC	CC	URR	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56707_A_35333332	NC_021166.1	Ca_Kabuli_Chr07	35333332	GG	TT	TT	URR	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56708_A_35333371	NC_021166.1	Ca_Kabuli_Chr07	35333371	CC	AA	AA	URR	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56709_A_35333427	NC_021166.1	Ca_Kabuli_Chr07	35333427	AA	TT	TT	URR	101496041	histone-lysine N-methyltransferase ATX3-like
SNP_56710_A_35335737	NC_021166.1	Ca_Kabuli_Chr07	35335737	TT	CC	CC	INTERGENIC		
SNP_56712_A_35337970	NC_021166.1	Ca_Kabuli_Chr07	35337970	AA	TT	TT	DRR	101496599	putative RING-H2 finger protein ATL21A
SNP_56713_A_35337997	NC_021166.1	Ca_Kabuli_Chr07	35337997	AA	TT	TT	DRR	101496599	putative RING-H2 finger protein ATL21A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56714_A_35339600	NC_021166.1	Ca_Kabuli_Chr07	35339600	GG	TT	TT	URR	101500285	probable F-box protein At3g61730
SNP_56715_A_35339604	NC_021166.1	Ca_Kabuli_Chr07	35339604	GG	CC	CC	URR	101500285	probable F-box protein At3g61730
SNP_56716_A_35340552	NC_021166.1	Ca_Kabuli_Chr07	35340552	TT	AA	AA	INTERGENIC		
SNP_56717_A_35340597	NC_021166.1	Ca_Kabuli_Chr07	35340597	CC	GG	GG	INTERGENIC		
SNP_56718_A_35340607	NC_021166.1	Ca_Kabuli_Chr07	35340607	TT	CC	CC	INTERGENIC		
SNP_56719_A_35345452	NC_021166.1	Ca_Kabuli_Chr07	35345452	TT	GG	GG	INTERGENIC		
SNP_56720_A_35345684	NC_021166.1	Ca_Kabuli_Chr07	35345684	AA	TT	TT	INTERGENIC		
SNP_56721_A_35345930	NC_021166.1	Ca_Kabuli_Chr07	35345930	TT	CC	CC	INTERGENIC		
SNP_56723_A_35347542	NC_021166.1	Ca_Kabuli_Chr07	35347542	GG	AA	AA	URR	101496921	GDP-Man:Man(3)GlcNAc(2)-PP-Dol mannosyltransferase
SNP_56725_A_35349345	NC_021166.1	Ca_Kabuli_Chr07	35349345	AA	GG	GG	INTERGENIC		
SNP_56726_A_35356954	NC_021166.1	Ca_Kabuli_Chr07	35356954	GG	AA	AA	URR	101497248	cyclic nucleotide-gated ion channel 1
SNP_56727_A_35357203	NC_021166.1	Ca_Kabuli_Chr07	35357203	AA	GG	GG	URR	101497248	cyclic nucleotide-gated ion channel 1
SNP_56728_A_35357501	NC_021166.1	Ca_Kabuli_Chr07	35357501	TT	GG	GG	URR	101497248	cyclic nucleotide-gated ion channel 1
SNP_56729_A_35361253	NC_021166.1	Ca_Kabuli_Chr07	35361253	AA	GG	GG	INTERGENIC		
SNP_56730_A_35361314	NC_021166.1	Ca_Kabuli_Chr07	35361314	GG	CC	CC	INTERGENIC		
SNP_56731_A_35361315	NC_021166.1	Ca_Kabuli_Chr07	35361315	TT	AA	AA	INTERGENIC		
SNP_56733_A_35365194	NC_021166.1	Ca_Kabuli_Chr07	35365194	AA	TT	TT	INTERGENIC		
SNP_56734_A_35365242	NC_021166.1	Ca_Kabuli_Chr07	35365242	TT	AA	AA	INTERGENIC		
SNP_56735_A_35365245	NC_021166.1	Ca_Kabuli_Chr07	35365245	AA	GG	GG	INTERGENIC		
SNP_56736_A_35365253	NC_021166.1	Ca_Kabuli_Chr07	35365253	TT	CC	CC	INTERGENIC		
SNP_56737_A_35365456	NC_021166.1	Ca_Kabuli_Chr07	35365456	TT	CC	CC	INTERGENIC		
SNP_56738_A_35365851	NC_021166.1	Ca_Kabuli_Chr07	35365851	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56739_A_35366344	NC_021166.1	Ca_Kabuli_Chr07	35366344	AA	CC	CC	INTERGENIC		
SNP_56741_A_35366420	NC_021166.1	Ca_Kabuli_Chr07	35366420	GG	AA	AA	INTERGENIC		
SNP_56742_A_35366425	NC_021166.1	Ca_Kabuli_Chr07	35366425	TT	CC	CC	INTERGENIC		
SNP_56743_A_35366427	NC_021166.1	Ca_Kabuli_Chr07	35366427	TT	AA	AA	INTERGENIC		
SNP_56744_A_35367673	NC_021166.1	Ca_Kabuli_Chr07	35367673	TT	AA	AA	INTERGENIC		
SNP_56745_A_35367852	NC_021166.1	Ca_Kabuli_Chr07	35367852	CC	TT	TT	INTERGENIC		
SNP_56746_A_35369366	NC_021166.1	Ca_Kabuli_Chr07	35369366	CC	TT	TT	INTERGENIC		
SNP_56747_A_35371218	NC_021166.1	Ca_Kabuli_Chr07	35371218	AA	TT	TT	INTERGENIC		
SNP_56748_A_35375136	NC_021166.1	Ca_Kabuli_Chr07	35375136	AA	GG	GG	INTRON	101497811	uncharacterized LOC101497811
SNP_56749_A_35376584	NC_021166.1	Ca_Kabuli_Chr07	35376584	TT	CC	CC	INTRON	101497811	uncharacterized LOC101497811
SNP_56750_A_35376840	NC_021166.1	Ca_Kabuli_Chr07	35376840	AA	GG	GG	INTRON	101497811	uncharacterized LOC101497811
SNP_56751_A_35379748	NC_021166.1	Ca_Kabuli_Chr07	35379748	AA	GG	GG	URR	101497811	uncharacterized LOC101497811
SNP_56753_A_35379806	NC_021166.1	Ca_Kabuli_Chr07	35379806	AA	GG	GG	URR	101497811	uncharacterized LOC101497811
SNP_56755_A_35379852	NC_021166.1	Ca_Kabuli_Chr07	35379852	GG	AA	AA	URR	101497811	uncharacterized LOC101497811
SNP_56757_A_35380003	NC_021166.1	Ca_Kabuli_Chr07	35380003	CC	TT	TT	INTERGENIC		
SNP_56758_A_35382353	NC_021166.1	Ca_Kabuli_Chr07	35382353	GG	TT	TT	INTERGENIC		
SNP_56759_A_35382387	NC_021166.1	Ca_Kabuli_Chr07	35382387	GG	AA	AA	INTERGENIC		
SNP_56761_A_35382636	NC_021166.1	Ca_Kabuli_Chr07	35382636	TT	CC	CC	INTERGENIC		
SNP_56762_A_35382836	NC_021166.1	Ca_Kabuli_Chr07	35382836	AA	GG	GG	INTERGENIC		
SNP_56763_A_35382914	NC_021166.1	Ca_Kabuli_Chr07	35382914	TT	GG	GG	INTERGENIC		
SNP_56764_A_35383394	NC_021166.1	Ca_Kabuli_Chr07	35383394	AA	GG	GG	INTERGENIC		
SNP_56765_A_35384465	NC_021166.1	Ca_Kabuli_Chr07	35384465	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56767_A_35385177	NC_021166.1	Ca_Kabuli_Chr07	35385177	GG	CC	CC	INTERGENIC			
SNP_56768_A_35385487	NC_021166.1	Ca_Kabuli_Chr07	35385487	TT	AA	AA	INTERGENIC			
SNP_56770_A_35386572	NC_021166.1	Ca_Kabuli_Chr07	35386572	CC	TT	TT	INTERGENIC			
SNP_56772_A_35392720	NC_021166.1	Ca_Kabuli_Chr07	35392720	CC	TT	TT	INTERGENIC			
SNP_56773_A_35392730	NC_021166.1	Ca_Kabuli_Chr07	35392730	CC	TT	TT	INTERGENIC			
SNP_56774_A_35392736	NC_021166.1	Ca_Kabuli_Chr07	35392736	CC	TT	TT	INTERGENIC			
SNP_56775_A_35404017	NC_021166.1	Ca_Kabuli_Chr07	35404017	TT	CC	CC	INTERGENIC			
SNP_56776_A_35417610	NC_021166.1	Ca_Kabuli_Chr07	35417610	CC	TT	TT	INTERGENIC			
SNP_56777_A_35423243	NC_021166.1	Ca_Kabuli_Chr07	35423243	CC	TT	TT	INTERGENIC			
SNP_56779_A_35461922	NC_021166.1	Ca_Kabuli_Chr07	35461922	TT	CC	CC	INTERGENIC			
SNP_56780_A_35461977	NC_021166.1	Ca_Kabuli_Chr07	35461977	TT	CC	CC	INTERGENIC			
SNP_56781_A_35461983	NC_021166.1	Ca_Kabuli_Chr07	35461983	AA	GG	GG	INTERGENIC			
SNP_56782_A_35461993	NC_021166.1	Ca_Kabuli_Chr07	35461993	AA	TT	TT	INTERGENIC			
SNP_56783_A_35462012	NC_021166.1	Ca_Kabuli_Chr07	35462012	TT	CC	CC	INTERGENIC			
SNP_56784_A_35462035	NC_021166.1	Ca_Kabuli_Chr07	35462035	AA	CC	CC	INTERGENIC			
SNP_56785_A_35463554	NC_021166.1	Ca_Kabuli_Chr07	35463554	CC	AA	AA	INTERGENIC			
SNP_56786_A_35463574	NC_021166.1	Ca_Kabuli_Chr07	35463574	AA	CC	CC	INTERGENIC			
SNP_56787_A_35463597	NC_021166.1	Ca_Kabuli_Chr07	35463597	TT	CC	CC	INTERGENIC			
SNP_56788_A_35463623	NC_021166.1	Ca_Kabuli_Chr07	35463623	TT	CC	CC	INTERGENIC			
SNP_56789_A_35473144	NC_021166.1	Ca_Kabuli_Chr07	35473144	GG	AA	AA	INTRON	101489242	DNA polymerase epsilon subunit 2-like	
SNP_56790_A_35473182	NC_021166.1	Ca_Kabuli_Chr07	35473182	AA	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like	
SNP_56791_A_35480393	NC_021166.1	Ca_Kabuli_Chr07	35480393	AA	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56792_A_35480402	NC_021166.1	Ca_Kabuli_Chr07	35480402	AA	GG	GG	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56793_A_35480442	NC_021166.1	Ca_Kabuli_Chr07	35480442	AA	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56794_A_35481300	NC_021166.1	Ca_Kabuli_Chr07	35481300	AA	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56796_A_35481337	NC_021166.1	Ca_Kabuli_Chr07	35481337	CC	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56798_A_35481469	NC_021166.1	Ca_Kabuli_Chr07	35481469	CC	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56799_A_35481622	NC_021166.1	Ca_Kabuli_Chr07	35481622	AA	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56800_A_35481640	NC_021166.1	Ca_Kabuli_Chr07	35481640	AA	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56801_A_35481683	NC_021166.1	Ca_Kabuli_Chr07	35481683	AA	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56802_A_35481686	NC_021166.1	Ca_Kabuli_Chr07	35481686	GG	AA	AA	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56803_A_35481740	NC_021166.1	Ca_Kabuli_Chr07	35481740	TT	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56804_A_35481758	NC_021166.1	Ca_Kabuli_Chr07	35481758	CC	AA	AA	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56805_A_35481808	NC_021166.1	Ca_Kabuli_Chr07	35481808	TT	CC	CC	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56806_A_35481818	NC_021166.1	Ca_Kabuli_Chr07	35481818	CC	TT	TT	INTRON	101489242	DNA polymerase epsilon subunit 2-like
SNP_56807_A_35501004	NC_021166.1	Ca_Kabuli_Chr07	35501004	GG	TT	TT	INTERGENIC		
SNP_56808_A_35501017	NC_021166.1	Ca_Kabuli_Chr07	35501017	CC	TT	AA	INTERGENIC		
SNP_56809_A_35501363	NC_021166.1	Ca_Kabuli_Chr07	35501363	GG	AA	AA	INTERGENIC		
SNP_56810_A_35501364	NC_021166.1	Ca_Kabuli_Chr07	35501364	AA	GG	GG	INTERGENIC		
SNP_56811_A_35501408	NC_021166.1	Ca_Kabuli_Chr07	35501408	TT	CC	CC	INTERGENIC		
SNP_56812_A_35501498	NC_021166.1	Ca_Kabuli_Chr07	35501498	AA	CC	CC	INTERGENIC		
SNP_56813_A_35501542	NC_021166.1	Ca_Kabuli_Chr07	35501542	TT	CC	CC	INTERGENIC		
SNP_56814_A_35501582	NC_021166.1	Ca_Kabuli_Chr07	35501582	AA	GG	GG	DRR	101502192	uncharacterized LOC101502192
SNP_56816_A_35573303	NC_021166.1	Ca_Kabuli_Chr07	35573303	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56817_A_35574832	NC_021166.1	Ca_Kabuli_Chr07	35574832	GG	AA	AA	DRR	101504556	reticulon-like protein B1
SNP_56818_A_35650857	NC_021166.1	Ca_Kabuli_Chr07	35650857	CC	TT	TT	INTERGENIC		
SNP_56819_A_35662991	NC_021166.1	Ca_Kabuli_Chr07	35662991	CC	TT	TT	URR	101507146	uncharacterized LOC101507146
SNP_56821_A_35691985	NC_021166.1	Ca_Kabuli_Chr07	35691985	AA	CC	CC	INTERGENIC		
SNP_56822_A_35694459	NC_021166.1	Ca_Kabuli_Chr07	35694459	GG	TT	TT	INTERGENIC		
SNP_56823_A_35753004	NC_021166.1	Ca_Kabuli_Chr07	35753004	AA	GG	GG	INTERGENIC		
SNP_56824_A_35753024	NC_021166.1	Ca_Kabuli_Chr07	35753024	CC	GG	GG	INTERGENIC		
SNP_56825_A_35753042	NC_021166.1	Ca_Kabuli_Chr07	35753042	TT	CC	CC	INTERGENIC		
SNP_56826_A_35785943	NC_021166.1	Ca_Kabuli_Chr07	35785943	AA	GG	GG	INTERGENIC		
SNP_56827_A_35786366	NC_021166.1	Ca_Kabuli_Chr07	35786366	GG	AA	AA	INTERGENIC		
SNP_56829_A_35802771	NC_021166.1	Ca_Kabuli_Chr07	35802771	CC	TT	TT	DRR	101510000	eukaryotic translation initiation factor 1A
SNP_56830_A_35863340	NC_021166.1	Ca_Kabuli_Chr07	35863340	AA	GG	GG	INTERGENIC		
SNP_56831_A_35864074	NC_021166.1	Ca_Kabuli_Chr07	35864074	TT	CC	CC	INTERGENIC		
SNP_56832_A_35915812	NC_021166.1	Ca_Kabuli_Chr07	35915812	GG	AA	AA	URR	101494737	uncharacterized LOC101494737
SNP_56834_A_35925542	NC_021166.1	Ca_Kabuli_Chr07	35925542	GG	AA	AA	INTRON	101515174	ribonuclease 2
SNP_56835_A_35942646	NC_021166.1	Ca_Kabuli_Chr07	35942646	AA	GG	GG	INTERGENIC		
SNP_56836_A_35950963	NC_021166.1	Ca_Kabuli_Chr07	35950963	AA	GG	GG	INTERGENIC		
SNP_56837_A_35950977	NC_021166.1	Ca_Kabuli_Chr07	35950977	TT	GG	GG	INTERGENIC		
SNP_56838_A_35951584	NC_021166.1	Ca_Kabuli_Chr07	35951584	AA	GG	GG	INTERGENIC		
SNP_56839_A_35953503	NC_021166.1	Ca_Kabuli_Chr07	35953503	AA	GG	GG	INTERGENIC		
SNP_56840_A_35953527	NC_021166.1	Ca_Kabuli_Chr07	35953527	GG	TT	TT	INTERGENIC		
SNP_56841_A_35953547	NC_021166.1	Ca_Kabuli_Chr07	35953547	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56842_A_35959650	NC_021166.1	Ca_Kabuli_Chr07	35959650	TT	CC	CC	INTERGENIC			
SNP_56843_A_35959878	NC_021166.1	Ca_Kabuli_Chr07	35959878	GG	AA	AA	INTERGENIC			
SNP_56844_A_35981728	NC_021166.1	Ca_Kabuli_Chr07	35981728	TT	CC	CC	INTERGENIC			
SNP_56845_A_36060923	NC_021166.1	Ca_Kabuli_Chr07	36060923	AA	CC	CC	INTERGENIC			
SNP_56847_A_36133028	NC_021166.1	Ca_Kabuli_Chr07	36133028	TT	CC	CC	INTERGENIC			
SNP_56848_A_36133131	NC_021166.1	Ca_Kabuli_Chr07	36133131	AA	CC	CC	INTERGENIC			
SNP_56849_A_36133189	NC_021166.1	Ca_Kabuli_Chr07	36133189	TT	CC	CC	INTERGENIC			
SNP_56850_A_36133216	NC_021166.1	Ca_Kabuli_Chr07	36133216	CC	TT	TT	INTERGENIC			
SNP_56851_A_36133272	NC_021166.1	Ca_Kabuli_Chr07	36133272	AA	GG	GG	INTERGENIC			
SNP_56852_A_36135343	NC_021166.1	Ca_Kabuli_Chr07	36135343	CC	TT	TT	INTERGENIC			
SNP_56853_A_36136514	NC_021166.1	Ca_Kabuli_Chr07	36136514	GG	AA	AA	INTERGENIC			
SNP_56854_A_36168043	NC_021166.1	Ca_Kabuli_Chr07	36168043	AA	GG	GG	INTERGENIC			
SNP_56858_A_36375785	NC_021166.1	Ca_Kabuli_Chr07	36375785	AA	GG	GG	INTERGENIC			
SNP_56859_A_36375840	NC_021166.1	Ca_Kabuli_Chr07	36375840	AA	TT	TT	INTERGENIC			
SNP_56860_A_36375875	NC_021166.1	Ca_Kabuli_Chr07	36375875	TT	CC	CC	INTERGENIC			
SNP_56861_A_36375909	NC_021166.1	Ca_Kabuli_Chr07	36375909	AA	GG	GG	INTERGENIC			
SNP_56862_A_36376007	NC_021166.1	Ca_Kabuli_Chr07	36376007	CC	TT	TT	INTERGENIC			
SNP_56863_A_36383983	NC_021166.1	Ca_Kabuli_Chr07	36383983	GG	TT	TT	INTERGENIC			
SNP_56864_A_36389971	NC_021166.1	Ca_Kabuli_Chr07	36389971	AA	TT	TT	INTERGENIC			
SNP_56865_A_36407390	NC_021166.1	Ca_Kabuli_Chr07	36407390	AA	TT	TT	INTERGENIC			
SNP_56866_A_36426141	NC_021166.1	Ca_Kabuli_Chr07	36426141	CC	GG	GG	INTERGENIC			
SNP_56867_A_36459276	NC_021166.1	Ca_Kabuli_Chr07	36459276	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56869_A_36519165	NC_021166.1	Ca_Kabuli_Chr07	36519165	GG	TT	TT	INTERGENIC		
SNP_56870_A_36524548	NC_021166.1	Ca_Kabuli_Chr07	36524548	CC	TT	TT	INTERGENIC		
SNP_56871_A_36524923	NC_021166.1	Ca_Kabuli_Chr07	36524923	GG	CC	CC	INTERGENIC		
SNP_56872_A_36524978	NC_021166.1	Ca_Kabuli_Chr07	36524978	TT	CC	CC	INTERGENIC		
SNP_56873_A_36527643	NC_021166.1	Ca_Kabuli_Chr07	36527643	CC	AA	AA	INTERGENIC		
SNP_56874_A_36527687	NC_021166.1	Ca_Kabuli_Chr07	36527687	AA	CC	CC	INTERGENIC		
SNP_56875_A_36580921	NC_021166.1	Ca_Kabuli_Chr07	36580921	AA	GG	GG	INTERGENIC		
SNP_56877_A_36638394	NC_021166.1	Ca_Kabuli_Chr07	36638394	AA	GG	GG	INTERGENIC		
SNP_56878_A_36662789	NC_021166.1	Ca_Kabuli_Chr07	36662789	CC	TT	TT	INTERGENIC		
SNP_56879_A_36699607	NC_021166.1	Ca_Kabuli_Chr07	36699607	TT	CC	CC	INTERGENIC		
SNP_56880_A_36699611	NC_021166.1	Ca_Kabuli_Chr07	36699611	CC	AA	AA	INTERGENIC		
SNP_56881_A_36699613	NC_021166.1	Ca_Kabuli_Chr07	36699613	GG	AA	AA	INTERGENIC		
SNP_56882_A_36699663	NC_021166.1	Ca_Kabuli_Chr07	36699663	AA	GG	GG	INTERGENIC		
SNP_56883_A_36750002	NC_021166.1	Ca_Kabuli_Chr07	36750002	AA	GG	GG	INTRON	101508926	uncharacterized LOC101508926
SNP_56884_A_36750437	NC_021166.1	Ca_Kabuli_Chr07	36750437	TT	CC	CC	INTRON	101508926	uncharacterized LOC101508926
SNP_56885_A_36750571	NC_021166.1	Ca_Kabuli_Chr07	36750571	TT	CC	CC	INTRON	101508926	uncharacterized LOC101508926
SNP_56886_A_36750599	NC_021166.1	Ca_Kabuli_Chr07	36750599	CC	TT	TT	INTRON	101508926	uncharacterized LOC101508926
SNP_56887_A_36750604	NC_021166.1	Ca_Kabuli_Chr07	36750604	CC	TT	TT	INTRON	101508926	uncharacterized LOC101508926
SNP_56888_A_36789791	NC_021166.1	Ca_Kabuli_Chr07	36789791	CC	TT	TT	URR	101510762	UPF0187 protein At3g61320, chloroplastic
SNP_56891_A_36881396	NC_021166.1	Ca_Kabuli_Chr07	36881396	AA	GG	GG	INTERGENIC		
SNP_56893_A_36897226	NC_021166.1	Ca_Kabuli_Chr07	36897226	AA	GG	GG	INTERGENIC		
SNP_56894_A_36907023	NC_021166.1	Ca_Kabuli_Chr07	36907023	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56895_A_36998824	NC_021166.1	Ca_Kabuli_Chr07	36998824	GG	AA	AA	INTERGENIC		
SNP_56896_A_37009312	NC_021166.1	Ca_Kabuli_Chr07	37009312	AA	GG	GG	INTRON	101488921	O-glucosyltransferase rumi homolog
SNP_56898_A_37013470	NC_021166.1	Ca_Kabuli_Chr07	37013470	TT	AA	AA	INTRON	101488921	O-glucosyltransferase rumi homolog
SNP_56899_A_37016789	NC_021166.1	Ca_Kabuli_Chr07	37016789	TT	CC	CC	INTRON	101488921	O-glucosyltransferase rumi homolog
SNP_56900_A_37112645	NC_021166.1	Ca_Kabuli_Chr07	37112645	AA	GG	GG	INTERGENIC		
SNP_56901_A_37112725	NC_021166.1	Ca_Kabuli_Chr07	37112725	GG	AA	AA	INTERGENIC		
SNP_56902_A_37181287	NC_021166.1	Ca_Kabuli_Chr07	37181287	GG	AA	AA	INTERGENIC		
SNP_56904_A_37213050	NC_021166.1	Ca_Kabuli_Chr07	37213050	TT	CC	CC	INTERGENIC		
SNP_56905_A_37213105	NC_021166.1	Ca_Kabuli_Chr07	37213105	AA	GG	GG	INTERGENIC		
SNP_56906_A_37213156	NC_021166.1	Ca_Kabuli_Chr07	37213156	CC	AA	AA	INTERGENIC		
SNP_56907_A_37213282	NC_021166.1	Ca_Kabuli_Chr07	37213282	TT	AA	AA	INTERGENIC		
SNP_56908_A_37230442	NC_021166.1	Ca_Kabuli_Chr07	37230442	TT	GG	GG	INTERGENIC		
SNP_56909_A_37236135	NC_021166.1	Ca_Kabuli_Chr07	37236135	TT	AA	AA	INTRON	101497249	Unknown function
SNP_56910_A_37236223	NC_021166.1	Ca_Kabuli_Chr07	37236223	GG	AA	AA	INTRON	101497249	Unknown function
SNP_56911_A_37236243	NC_021166.1	Ca_Kabuli_Chr07	37236243	TT	CC	CC	INTRON	101497249	Unknown function
SNP_56912_A_37236290	NC_021166.1	Ca_Kabuli_Chr07	37236290	AA	GG	GG	INTRON	101497249	Unknown function
SNP_56913_A_37241389	NC_021166.1	Ca_Kabuli_Chr07	37241389	GG	CC	CC	INTRON	101497249	Unknown function
SNP_56914_A_37247916	NC_021166.1	Ca_Kabuli_Chr07	37247916	TT	CC	CC	INTRON	101497249	Unknown function
SNP_56915_A_37252233	NC_021166.1	Ca_Kabuli_Chr07	37252233	AA	TT	TT	INTRON	101497249	Unknown function
SNP_56916_A_37263945	NC_021166.1	Ca_Kabuli_Chr07	37263945	AA	CC	CC	INTRON	101497249	Unknown function
SNP_56918_A_37265590	NC_021166.1	Ca_Kabuli_Chr07	37265590	AA	CC	CC	INTRON	101497249	Unknown function
SNP_56919_A_37269059	NC_021166.1	Ca_Kabuli_Chr07	37269059	GG	TT	TT	INTRON	101497249	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_56920_A_37269082	NC_021166.1	Ca_Kabuli_Chr07	37269082	GG	AA	AA	INTRON	101497249	Unknown function
SNP_56921_A_37269123	NC_021166.1	Ca_Kabuli_Chr07	37269123	TT	AA	AA	INTRON	101497249	Unknown function
SNP_56922_A_37281954	NC_021166.1	Ca_Kabuli_Chr07	37281954	AA	TT	TT	INTRON	101497249	Unknown function
SNP_56924_A_37282115	NC_021166.1	Ca_Kabuli_Chr07	37282115	TT	CC	CC	INTRON	101497249	Unknown function
SNP_56925_A_37282148	NC_021166.1	Ca_Kabuli_Chr07	37282148	AA	GG	GG	INTRON	101497249	Unknown function
SNP_56926_A_37292301	NC_021166.1	Ca_Kabuli_Chr07	37292301	AA	GG	GG	INTERGENIC		
SNP_56927_A_37292376	NC_021166.1	Ca_Kabuli_Chr07	37292376	AA	GG	GG	INTERGENIC		
SNP_56928_A_37292380	NC_021166.1	Ca_Kabuli_Chr07	37292380	CC	TT	TT	INTERGENIC		
SNP_56929_A_37292523	NC_021166.1	Ca_Kabuli_Chr07	37292523	GG	AA	AA	INTERGENIC		
SNP_56930_A_37292550	NC_021166.1	Ca_Kabuli_Chr07	37292550	AA	TT	TT	INTERGENIC		
SNP_56931_A_37292610	NC_021166.1	Ca_Kabuli_Chr07	37292610	GG	TT	TT	INTERGENIC		
SNP_56932_A_37292634	NC_021166.1	Ca_Kabuli_Chr07	37292634	TT	GG	GG	INTERGENIC		
SNP_56933_A_37292662	NC_021166.1	Ca_Kabuli_Chr07	37292662	CC	AA	AA	INTERGENIC		
SNP_56934_A_37296881	NC_021166.1	Ca_Kabuli_Chr07	37296881	AA	CC	CC	INTERGENIC		
SNP_56935_A_37315291	NC_021166.1	Ca_Kabuli_Chr07	37315291	CC	TT	TT	INTERGENIC		
SNP_56936_A_37315366	NC_021166.1	Ca_Kabuli_Chr07	37315366	AA	GG	GG	INTERGENIC		
SNP_56937_A_37316499	NC_021166.1	Ca_Kabuli_Chr07	37316499	AA	GG	GG	INTERGENIC		
SNP_56938_A_37345767	NC_021166.1	Ca_Kabuli_Chr07	37345767	GG	CC	CC	INTERGENIC		
SNP_56939_A_37366683	NC_021166.1	Ca_Kabuli_Chr07	37366683	CC	TT	TT	INTERGENIC		
SNP_56940_A_37370080	NC_021166.1	Ca_Kabuli_Chr07	37370080	AA	TT	TT	INTERGENIC		
SNP_56941_A_37370333	NC_021166.1	Ca_Kabuli_Chr07	37370333	GG	TT	TT	INTERGENIC		
SNP_56942_A_37372128	NC_021166.1	Ca_Kabuli_Chr07	37372128	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56943_A_37372158	NC_021166.1	Ca_Kabuli_Chr07	37372158	AA	TT	TT	INTERGENIC			
SNP_56944_A_37372387	NC_021166.1	Ca_Kabuli_Chr07	37372387	CC	TT	TT	INTERGENIC			
SNP_56945_A_37372955	NC_021166.1	Ca_Kabuli_Chr07	37372955	TT	CC	CC	INTERGENIC			
SNP_56946_A_37372971	NC_021166.1	Ca_Kabuli_Chr07	37372971	CC	TT	TT	INTERGENIC			
SNP_56947_A_37374030	NC_021166.1	Ca_Kabuli_Chr07	37374030	CC	AA	AA	INTERGENIC			
SNP_56948_A_37374227	NC_021166.1	Ca_Kabuli_Chr07	37374227	TT	GG	GG	INTERGENIC			
SNP_56949_A_37374243	NC_021166.1	Ca_Kabuli_Chr07	37374243	TT	GG	GG	INTERGENIC			
SNP_56950_A_37374257	NC_021166.1	Ca_Kabuli_Chr07	37374257	AA	GG	GG	INTERGENIC			
SNP_56951_A_37374269	NC_021166.1	Ca_Kabuli_Chr07	37374269	TT	CC	CC	INTERGENIC			
SNP_56952_A_37396017	NC_021166.1	Ca_Kabuli_Chr07	37396017	AA	CC	CC	INTERGENIC			
SNP_56953_A_37427275	NC_021166.1	Ca_Kabuli_Chr07	37427275	CC	TT	TT	INTERGENIC			
SNP_56954_A_37427294	NC_021166.1	Ca_Kabuli_Chr07	37427294	TT	CC	CC	INTERGENIC			
SNP_56955_A_37427583	NC_021166.1	Ca_Kabuli_Chr07	37427583	AA	CC	CC	INTERGENIC			
SNP_56956_A_37427590	NC_021166.1	Ca_Kabuli_Chr07	37427590	GG	AA	AA	INTERGENIC			
SNP_56957_A_37427608	NC_021166.1	Ca_Kabuli_Chr07	37427608	TT	CC	CC	INTERGENIC			
SNP_56958_A_37437152	NC_021166.1	Ca_Kabuli_Chr07	37437152	GG	AA	AA	INTERGENIC			
SNP_56959_A_37437572	NC_021166.1	Ca_Kabuli_Chr07	37437572	TT	GG	GG	INTERGENIC			
SNP_56960_A_37437579	NC_021166.1	Ca_Kabuli_Chr07	37437579	CC	AA	AA	INTERGENIC			
SNP_56961_A_37437580	NC_021166.1	Ca_Kabuli_Chr07	37437580	GG	TT	TT	INTERGENIC			
SNP_56962_A_37439526	NC_021166.1	Ca_Kabuli_Chr07	37439526	GG	TT	TT	INTERGENIC			
SNP_56963_A_37475284	NC_021166.1	Ca_Kabuli_Chr07	37475284	TT	CC	CC	INTERGENIC			
SNP_56964_A_37478031	NC_021166.1	Ca_Kabuli_Chr07	37478031	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56965_A_37479171	NC_021166.1	Ca_Kabuli_Chr07	37479171	CC	TT	TT	INTERGENIC			
SNP_56966_A_37479236	NC_021166.1	Ca_Kabuli_Chr07	37479236	AA	CC	CC	INTERGENIC			
SNP_56967_A_37479267	NC_021166.1	Ca_Kabuli_Chr07	37479267	GG	AA	AA	INTERGENIC			
SNP_56968_A_37479291	NC_021166.1	Ca_Kabuli_Chr07	37479291	TT	CC	CC	INTERGENIC			
SNP_56969_A_37479294	NC_021166.1	Ca_Kabuli_Chr07	37479294	GG	AA	AA	INTERGENIC			
SNP_56970_A_37479300	NC_021166.1	Ca_Kabuli_Chr07	37479300	GG	AA	AA	INTERGENIC			
SNP_56971_A_37479550	NC_021166.1	Ca_Kabuli_Chr07	37479550	TT	CC	CC	INTERGENIC			
SNP_56972_A_37479551	NC_021166.1	Ca_Kabuli_Chr07	37479551	GG	CC	CC	INTERGENIC			
SNP_56973_A_37479589	NC_021166.1	Ca_Kabuli_Chr07	37479589	GG	AA	AA	INTERGENIC			
SNP_56974_A_37479683	NC_021166.1	Ca_Kabuli_Chr07	37479683	AA	GG	GG	INTERGENIC			
SNP_56975_A_37479738	NC_021166.1	Ca_Kabuli_Chr07	37479738	AA	TT	TT	INTERGENIC			
SNP_56976_A_37479760	NC_021166.1	Ca_Kabuli_Chr07	37479760	CC	TT	TT	INTERGENIC			
SNP_56977_A_37481196	NC_021166.1	Ca_Kabuli_Chr07	37481196	TT	GG	GG	INTERGENIC			
SNP_56978_A_37481218	NC_021166.1	Ca_Kabuli_Chr07	37481218	AA	GG	GG	INTERGENIC			
SNP_56979_A_37481598	NC_021166.1	Ca_Kabuli_Chr07	37481598	TT	AA	AA	INTERGENIC			
SNP_56980_A_37484493	NC_021166.1	Ca_Kabuli_Chr07	37484493	CC	TT	TT	INTERGENIC			
SNP_56981_A_37484509	NC_021166.1	Ca_Kabuli_Chr07	37484509	TT	CC	CC	INTERGENIC			
SNP_56982_A_37488898	NC_021166.1	Ca_Kabuli_Chr07	37488898	CC	TT	TT	INTERGENIC			
SNP_56983_A_37491262	NC_021166.1	Ca_Kabuli_Chr07	37491262	GG	TT	TT	INTERGENIC			
SNP_56984_A_37496600	NC_021166.1	Ca_Kabuli_Chr07	37496600	GG	AA	AA	INTERGENIC			
SNP_56985_A_37496908	NC_021166.1	Ca_Kabuli_Chr07	37496908	AA	CC	CC	INTERGENIC			
SNP_56986_A_37497912	NC_021166.1	Ca_Kabuli_Chr07	37497912	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_56987_A_37497933	NC_021166.1	Ca_Kabuli_Chr07	37497933	GG	AA	AA	INTERGENIC			
SNP_56988_A_37498072	NC_021166.1	Ca_Kabuli_Chr07	37498072	GG	AA	AA	INTERGENIC			
SNP_56989_A_37498084	NC_021166.1	Ca_Kabuli_Chr07	37498084	TT	AA	AA	INTERGENIC			
SNP_56990_A_37498085	NC_021166.1	Ca_Kabuli_Chr07	37498085	TT	CC	CC	INTERGENIC			
SNP_56991_A_37498086	NC_021166.1	Ca_Kabuli_Chr07	37498086	GG	TT	TT	INTERGENIC			
SNP_56992_A_37502433	NC_021166.1	Ca_Kabuli_Chr07	37502433	CC	AA	AA	INTERGENIC			
SNP_56993_A_37502753	NC_021166.1	Ca_Kabuli_Chr07	37502753	TT	CC	CC	INTERGENIC			
SNP_56994_A_37502798	NC_021166.1	Ca_Kabuli_Chr07	37502798	AA	CC	CC	INTERGENIC			
SNP_56995_A_37502811	NC_021166.1	Ca_Kabuli_Chr07	37502811	TT	AA	AA	INTERGENIC			
SNP_56996_A_37502829	NC_021166.1	Ca_Kabuli_Chr07	37502829	TT	CC	CC	INTERGENIC			
SNP_56997_A_37502862	NC_021166.1	Ca_Kabuli_Chr07	37502862	GG	AA	AA	INTERGENIC			
SNP_56998_A_37504242	NC_021166.1	Ca_Kabuli_Chr07	37504242	TT	GG	GG	INTERGENIC			
SNP_56999_A_37504295	NC_021166.1	Ca_Kabuli_Chr07	37504295	CC	AA	AA	INTERGENIC			
SNP_57000_A_37504577	NC_021166.1	Ca_Kabuli_Chr07	37504577	GG	CC	CC	INTERGENIC			
SNP_57002_A_37507196	NC_021166.1	Ca_Kabuli_Chr07	37507196	AA	TT	TT	INTERGENIC			
SNP_57003_A_37507225	NC_021166.1	Ca_Kabuli_Chr07	37507225	AA	CC	CC	INTERGENIC			
SNP_57004_A_37507252	NC_021166.1	Ca_Kabuli_Chr07	37507252	TT	CC	CC	INTERGENIC			
SNP_57005_A_37510567	NC_021166.1	Ca_Kabuli_Chr07	37510567	GG	AA	AA	INTERGENIC			
SNP_57006_A_37511175	NC_021166.1	Ca_Kabuli_Chr07	37511175	TT	CC	CC	INTERGENIC			
SNP_57007_A_37511678	NC_021166.1	Ca_Kabuli_Chr07	37511678	TT	CC	CC	INTERGENIC			
SNP_57008_A_37513557	NC_021166.1	Ca_Kabuli_Chr07	37513557	CC	TT	TT	INTERGENIC			
SNP_57009_A_37514909	NC_021166.1	Ca_Kabuli_Chr07	37514909	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57010_A_37517511	NC_021166.1	Ca_Kabuli_Chr07	37517511	CC	TT	TT	INTERGENIC			
SNP_57011_A_37518568	NC_021166.1	Ca_Kabuli_Chr07	37518568	CC	TT	TT	INTERGENIC			
SNP_57012_A_37520142	NC_021166.1	Ca_Kabuli_Chr07	37520142	GG	TT	TT	INTERGENIC			
SNP_57013_A_37520244	NC_021166.1	Ca_Kabuli_Chr07	37520244	TT	AA	AA	INTERGENIC			
SNP_57014_A_37529594	NC_021166.1	Ca_Kabuli_Chr07	37529594	GG	AA	AA	INTERGENIC			
SNP_57015_A_37529724	NC_021166.1	Ca_Kabuli_Chr07	37529724	AA	GG	GG	INTERGENIC			
SNP_57016_A_37529840	NC_021166.1	Ca_Kabuli_Chr07	37529840	GG	AA	AA	INTERGENIC			
SNP_57017_A_37530372	NC_021166.1	Ca_Kabuli_Chr07	37530372	TT	CC	CC	INTERGENIC			
SNP_57018_A_37530477	NC_021166.1	Ca_Kabuli_Chr07	37530477	AA	TT	TT	INTERGENIC			
SNP_57019_A_37539012	NC_021166.1	Ca_Kabuli_Chr07	37539012	TT	CC	CC	INTERGENIC			
SNP_57020_A_37539014	NC_021166.1	Ca_Kabuli_Chr07	37539014	GG	AA	AA	INTERGENIC			
SNP_57021_A_37539112	NC_021166.1	Ca_Kabuli_Chr07	37539112	TT	CC	CC	INTERGENIC			
SNP_57022_A_37546999	NC_021166.1	Ca_Kabuli_Chr07	37546999	GG	AA	AA	INTERGENIC			
SNP_57023_A_37547042	NC_021166.1	Ca_Kabuli_Chr07	37547042	CC	TT	TT	INTERGENIC			
SNP_57024_A_37547201	NC_021166.1	Ca_Kabuli_Chr07	37547201	AA	TT	TT	INTERGENIC			
SNP_57025_A_37547374	NC_021166.1	Ca_Kabuli_Chr07	37547374	AA	CC	CC	INTERGENIC			
SNP_57026_A_37548820	NC_021166.1	Ca_Kabuli_Chr07	37548820	TT	GG	GG	INTERGENIC			
SNP_57027_A_37549718	NC_021166.1	Ca_Kabuli_Chr07	37549718	TT	CC	CC	INTERGENIC			
SNP_57028_A_37551711	NC_021166.1	Ca_Kabuli_Chr07	37551711	GG	AA	AA	INTERGENIC			
SNP_57029_A_37554564	NC_021166.1	Ca_Kabuli_Chr07	37554564	TT	AA	AA	INTERGENIC			
SNP_57030_A_37555901	NC_021166.1	Ca_Kabuli_Chr07	37555901	GG	AA	AA	INTERGENIC			
SNP_57031_A_37558474	NC_021166.1	Ca_Kabuli_Chr07	37558474	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57032_A_37560083	NC_021166.1	Ca_Kabuli_Chr07	37560083	AA	TT	TT	INTERGENIC			
SNP_57033_A_37561497	NC_021166.1	Ca_Kabuli_Chr07	37561497	GG	TT	TT	INTERGENIC			
SNP_57034_A_37562927	NC_021166.1	Ca_Kabuli_Chr07	37562927	CC	TT	TT	INTERGENIC			
SNP_57035_A_37562941	NC_021166.1	Ca_Kabuli_Chr07	37562941	CC	TT	TT	INTERGENIC			
SNP_57038_A_37570518	NC_021166.1	Ca_Kabuli_Chr07	37570518	AA	GG	GG	INTERGENIC			
SNP_57039_A_37570556	NC_021166.1	Ca_Kabuli_Chr07	37570556	CC	TT	TT	INTERGENIC			
SNP_57040_A_37570631	NC_021166.1	Ca_Kabuli_Chr07	37570631	CC	TT	TT	INTERGENIC			
SNP_57041_A_37572174	NC_021166.1	Ca_Kabuli_Chr07	37572174	AA	CC	CC	INTERGENIC			
SNP_57042_A_37573888	NC_021166.1	Ca_Kabuli_Chr07	37573888	GG	AA	AA	INTERGENIC			
SNP_57044_A_37574387	NC_021166.1	Ca_Kabuli_Chr07	37574387	AA	GG	GG	INTERGENIC			
SNP_57045_A_37577633	NC_021166.1	Ca_Kabuli_Chr07	37577633	AA	CC	CC	INTERGENIC			
SNP_57046_A_37580214	NC_021166.1	Ca_Kabuli_Chr07	37580214	TT	AA	AA	INTERGENIC			
SNP_57047_A_37585970	NC_021166.1	Ca_Kabuli_Chr07	37585970	GG	AA	AA	INTERGENIC			
SNP_57048_A_37585976	NC_021166.1	Ca_Kabuli_Chr07	37585976	AA	GG	GG	INTERGENIC			
SNP_57049_A_37586009	NC_021166.1	Ca_Kabuli_Chr07	37586009	GG	AA	AA	INTERGENIC			
SNP_57050_A_37591782	NC_021166.1	Ca_Kabuli_Chr07	37591782	TT	CC	CC	INTERGENIC			
SNP_57051_A_37592460	NC_021166.1	Ca_Kabuli_Chr07	37592460	AA	CC	CC	INTERGENIC			
SNP_57053_A_37595223	NC_021166.1	Ca_Kabuli_Chr07	37595223	GG	AA	AA	INTERGENIC			
SNP_57054_A_37614899	NC_021166.1	Ca_Kabuli_Chr07	37614899	GG	CC	CC	INTERGENIC			
SNP_57055_A_37615039	NC_021166.1	Ca_Kabuli_Chr07	37615039	GG	AA	AA	INTERGENIC			
SNP_57056_A_37615336	NC_021166.1	Ca_Kabuli_Chr07	37615336	AA	GG	GG	INTERGENIC			
SNP_57057_A_37615573	NC_021166.1	Ca_Kabuli_Chr07	37615573	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57058_A_37616093	NC_021166.1	Ca_Kabuli_Chr07	37616093	TT	CC	CC	INTERGENIC			
SNP_57059_A_37618247	NC_021166.1	Ca_Kabuli_Chr07	37618247	TT	CC	CC	INTERGENIC			
SNP_57060_A_37622097	NC_021166.1	Ca_Kabuli_Chr07	37622097	TT	CC	CC	INTERGENIC			
SNP_57061_A_37622163	NC_021166.1	Ca_Kabuli_Chr07	37622163	TT	CC	CC	INTERGENIC			
SNP_57062_A_37622207	NC_021166.1	Ca_Kabuli_Chr07	37622207	CC	TT	TT	INTERGENIC			
SNP_57063_A_37622247	NC_021166.1	Ca_Kabuli_Chr07	37622247	AA	TT	TT	INTERGENIC			
SNP_57064_A_37622256	NC_021166.1	Ca_Kabuli_Chr07	37622256	AA	GG	GG	INTERGENIC			
SNP_57066_A_37622427	NC_021166.1	Ca_Kabuli_Chr07	37622427	CC	AA	AA	INTERGENIC			
SNP_57067_A_37622438	NC_021166.1	Ca_Kabuli_Chr07	37622438	TT	CC	CC	INTERGENIC			
SNP_57068_A_37622482	NC_021166.1	Ca_Kabuli_Chr07	37622482	TT	CC	CC	INTERGENIC			
SNP_57069_A_37622513	NC_021166.1	Ca_Kabuli_Chr07	37622513	CC	TT	TT	INTERGENIC			
SNP_57070_A_37622563	NC_021166.1	Ca_Kabuli_Chr07	37622563	TT	CC	CC	INTERGENIC			
SNP_57071_A_37622572	NC_021166.1	Ca_Kabuli_Chr07	37622572	GG	AA	AA	INTERGENIC			
SNP_57072_A_37622582	NC_021166.1	Ca_Kabuli_Chr07	37622582	GG	AA	AA	INTERGENIC			
SNP_57073_A_37622618	NC_021166.1	Ca_Kabuli_Chr07	37622618	TT	CC	CC	INTERGENIC			
SNP_57074_A_37622658	NC_021166.1	Ca_Kabuli_Chr07	37622658	TT	CC	CC	INTERGENIC			
SNP_57075_A_37622660	NC_021166.1	Ca_Kabuli_Chr07	37622660	GG	AA	AA	INTERGENIC			
SNP_57076_A_37622661	NC_021166.1	Ca_Kabuli_Chr07	37622661	CC	TT	TT	INTERGENIC			
SNP_57077_A_37622705	NC_021166.1	Ca_Kabuli_Chr07	37622705	TT	CC	CC	INTERGENIC			
SNP_57078_A_37622722	NC_021166.1	Ca_Kabuli_Chr07	37622722	GG	CC	CC	INTERGENIC			
SNP_57079_A_37622737	NC_021166.1	Ca_Kabuli_Chr07	37622737	AA	GG	GG	INTERGENIC			
SNP_57080_A_37622860	NC_021166.1	Ca_Kabuli_Chr07	37622860	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57081_A_37622906	NC_021166.1	Ca_Kabuli_Chr07	37622906	TT	GG	GG	INTERGENIC			
SNP_57082_A_37623004	NC_021166.1	Ca_Kabuli_Chr07	37623004	AA	GG	GG	INTERGENIC			
SNP_57083_A_37623108	NC_021166.1	Ca_Kabuli_Chr07	37623108	CC	TT	TT	INTERGENIC			
SNP_57084_A_37626226	NC_021166.1	Ca_Kabuli_Chr07	37626226	GG	AA	AA	INTERGENIC			
SNP_57085_A_37626260	NC_021166.1	Ca_Kabuli_Chr07	37626260	AA	GG	GG	INTERGENIC			
SNP_57086_A_37626287	NC_021166.1	Ca_Kabuli_Chr07	37626287	TT	CC	CC	INTERGENIC			
SNP_57087_A_37626455	NC_021166.1	Ca_Kabuli_Chr07	37626455	AA	GG	GG	INTERGENIC			
SNP_57088_A_37626518	NC_021166.1	Ca_Kabuli_Chr07	37626518	TT	CC	CC	INTERGENIC			
SNP_57089_A_37626534	NC_021166.1	Ca_Kabuli_Chr07	37626534	TT	CC	CC	INTERGENIC			
SNP_57090_A_37626538	NC_021166.1	Ca_Kabuli_Chr07	37626538	CC	TT	TT	INTERGENIC			
SNP_57091_A_37626695	NC_021166.1	Ca_Kabuli_Chr07	37626695	GG	CC	CC	INTERGENIC			
SNP_57092_A_37626701	NC_021166.1	Ca_Kabuli_Chr07	37626701	AA	GG	GG	INTERGENIC			
SNP_57093_A_37626712	NC_021166.1	Ca_Kabuli_Chr07	37626712	CC	TT	TT	INTERGENIC			
SNP_57094_A_37626827	NC_021166.1	Ca_Kabuli_Chr07	37626827	GG	AA	AA	INTERGENIC			
SNP_57095_A_37641080	NC_021166.1	Ca_Kabuli_Chr07	37641080	TT	GG	GG	INTERGENIC			
SNP_57096_A_37667166	NC_021166.1	Ca_Kabuli_Chr07	37667166	AA	GG	GG	INTERGENIC			
SNP_57098_A_37710088	NC_021166.1	Ca_Kabuli_Chr07	37710088	GG	AA	AA	INTERGENIC			
SNP_57100_A_37711495	NC_021166.1	Ca_Kabuli_Chr07	37711495	CC	GG	GG	INTERGENIC			
SNP_57101_A_37711595	NC_021166.1	Ca_Kabuli_Chr07	37711595	CC	TT	TT	INTERGENIC			
SNP_57102_A_37711596	NC_021166.1	Ca_Kabuli_Chr07	37711596	GG	AA	AA	INTERGENIC			
SNP_57103_A_37711721	NC_021166.1	Ca_Kabuli_Chr07	37711721	CC	AA	AA	INTERGENIC			
SNP_57104_A_37711767	NC_021166.1	Ca_Kabuli_Chr07	37711767	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57105_A_37711785	NC_021166.1	Ca_Kabuli_Chr07	37711785	TT	AA	AA	INTERGENIC			
SNP_57106_A_37744727	NC_021166.1	Ca_Kabuli_Chr07	37744727	GG	AA	AA	INTERGENIC			
SNP_57107_A_37745560	NC_021166.1	Ca_Kabuli_Chr07	37745560	CC	TT	TT	INTERGENIC			
SNP_57109_A_37819473	NC_021166.1	Ca_Kabuli_Chr07	37819473	CC	TT	TT	INTERGENIC			
SNP_57110_A_37819871	NC_021166.1	Ca_Kabuli_Chr07	37819871	AA	TT	TT	INTERGENIC			
SNP_57111_A_37824395	NC_021166.1	Ca_Kabuli_Chr07	37824395	CC	AA	AA	INTERGENIC			
SNP_57112_A_37824588	NC_021166.1	Ca_Kabuli_Chr07	37824588	GG	AA	AA	INTERGENIC			
SNP_57113_A_37824612	NC_021166.1	Ca_Kabuli_Chr07	37824612	TT	AA	AA	INTERGENIC			
SNP_57114_A_37837485	NC_021166.1	Ca_Kabuli_Chr07	37837485	AA	TT	TT	INTERGENIC			
SNP_57115_A_37839870	NC_021166.1	Ca_Kabuli_Chr07	37839870	AA	TT	TT	INTERGENIC			
SNP_57116_A_37845890	NC_021166.1	Ca_Kabuli_Chr07	37845890	GG	TT	TT	INTERGENIC			
SNP_57117_A_37849767	NC_021166.1	Ca_Kabuli_Chr07	37849767	AA	CC	CC	INTERGENIC			
SNP_57118_A_37849812	NC_021166.1	Ca_Kabuli_Chr07	37849812	AA	GG	GG	INTERGENIC			
SNP_57119_A_37849909	NC_021166.1	Ca_Kabuli_Chr07	37849909	TT	AA	AA	INTERGENIC			
SNP_57120_A_37849951	NC_021166.1	Ca_Kabuli_Chr07	37849951	AA	GG	GG	INTERGENIC			
SNP_57121_A_37850116	NC_021166.1	Ca_Kabuli_Chr07	37850116	TT	GG	GG	INTERGENIC			
SNP_57122_A_37850276	NC_021166.1	Ca_Kabuli_Chr07	37850276	AA	GG	GG	INTERGENIC			
SNP_57123_A_37856907	NC_021166.1	Ca_Kabuli_Chr07	37856907	GG	TT	TT	INTERGENIC			
SNP_57124_A_37856920	NC_021166.1	Ca_Kabuli_Chr07	37856920	AA	GG	GG	INTERGENIC			
SNP_57125_A_37856932	NC_021166.1	Ca_Kabuli_Chr07	37856932	GG	TT	TT	INTERGENIC			
SNP_57126_A_37856984	NC_021166.1	Ca_Kabuli_Chr07	37856984	TT	GG	GG	INTERGENIC			
SNP_57127_A_37857338	NC_021166.1	Ca_Kabuli_Chr07	37857338	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57128_A_37878313	NC_021166.1	Ca_Kabuli_Chr07	37878313	TT	AA	AA	INTERGENIC			
SNP_57129_A_37893883	NC_021166.1	Ca_Kabuli_Chr07	37893883	GG	AA	AA	INTERGENIC			
SNP_57130_A_37898921	NC_021166.1	Ca_Kabuli_Chr07	37898921	TT	AA	AA	INTERGENIC			
SNP_57131_A_37904694	NC_021166.1	Ca_Kabuli_Chr07	37904694	CC	GG	GG	INTERGENIC			
SNP_57132_A_37904906	NC_021166.1	Ca_Kabuli_Chr07	37904906	TT	GG	GG	INTERGENIC			
SNP_57133_A_37914279	NC_021166.1	Ca_Kabuli_Chr07	37914279	GG	TT	TT	INTERGENIC			
SNP_57134_A_37915205	NC_021166.1	Ca_Kabuli_Chr07	37915205	CC	TT	TT	INTERGENIC			
SNP_57135_A_37915217	NC_021166.1	Ca_Kabuli_Chr07	37915217	TT	CC	CC	INTERGENIC			
SNP_57139_A_37928575	NC_021166.1	Ca_Kabuli_Chr07	37928575	GG	AA	AA	INTERGENIC			
SNP_57141_A_37931103	NC_021166.1	Ca_Kabuli_Chr07	37931103	TT	GG	GG	DRR	101505286	BON1-associated protein 2-like	
SNP_57142_A_37931106	NC_021166.1	Ca_Kabuli_Chr07	37931106	TT	CC	CC	DRR	101505286	BON1-associated protein 2-like	
SNP_57143_A_37948156	NC_021166.1	Ca_Kabuli_Chr07	37948156	TT	GG	GG	INTERGENIC			
SNP_57145_A_37992834	NC_021166.1	Ca_Kabuli_Chr07	37992834	TT	AA	AA	INTERGENIC			
SNP_57146_A_37992879	NC_021166.1	Ca_Kabuli_Chr07	37992879	AA	GG	GG	INTERGENIC			
SNP_57147_A_37992892	NC_021166.1	Ca_Kabuli_Chr07	37992892	GG	AA	AA	INTERGENIC			
SNP_57148_A_37992893	NC_021166.1	Ca_Kabuli_Chr07	37992893	GG	AA	AA	INTERGENIC			
SNP_57149_A_37993015	NC_021166.1	Ca_Kabuli_Chr07	37993015	CC	TT	TT	INTERGENIC			
SNP_57150_A_37993092	NC_021166.1	Ca_Kabuli_Chr07	37993092	GG	AA	AA	INTERGENIC			
SNP_57151_A_37993146	NC_021166.1	Ca_Kabuli_Chr07	37993146	AA	GG	GG	INTERGENIC			
SNP_57152_A_38046590	NC_021166.1	Ca_Kabuli_Chr07	38046590	CC	AA	AA	INTERGENIC			
SNP_57153_A_38057795	NC_021166.1	Ca_Kabuli_Chr07	38057795	AA	GG	GG	INTERGENIC			
SNP_57154_A_38063110	NC_021166.1	Ca_Kabuli_Chr07	38063110	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57156_A_38103773	NC_021166.1	Ca_Kabuli_Chr07	38103773	AA	TT	TT	INTERGENIC			
SNP_57157_A_38118024	NC_021166.1	Ca_Kabuli_Chr07	38118024	GG	AA	AA	INTERGENIC			
SNP_57158_A_38158441	NC_021166.1	Ca_Kabuli_Chr07	38158441	GG	AA	AA	INTERGENIC			
SNP_57160_A_38166241	NC_021166.1	Ca_Kabuli_Chr07	38166241	TT	CC	CC	INTERGENIC			
SNP_57161_A_38166391	NC_021166.1	Ca_Kabuli_Chr07	38166391	TT	CC	CC	INTERGENIC			
SNP_57162_A_38232733	NC_021166.1	Ca_Kabuli_Chr07	38232733	AA	CC	CC	INTERGENIC			
SNP_57163_A_38233130	NC_021166.1	Ca_Kabuli_Chr07	38233130	GG	AA	AA	INTERGENIC			
SNP_57164_A_38252151	NC_021166.1	Ca_Kabuli_Chr07	38252151	TT	CC	CC	INTERGENIC			
SNP_57165_A_38252687	NC_021166.1	Ca_Kabuli_Chr07	38252687	CC	TT	TT	INTERGENIC			
SNP_57166_A_38264390	NC_021166.1	Ca_Kabuli_Chr07	38264390	GG	AA	AA	INTERGENIC			
SNP_57167_A_38296123	NC_021166.1	Ca_Kabuli_Chr07	38296123	TT	AA	AA	INTERGENIC			
SNP_57168_A_38296419	NC_021166.1	Ca_Kabuli_Chr07	38296419	CC	AA	AA	INTERGENIC			
SNP_57169_A_38298303	NC_021166.1	Ca_Kabuli_Chr07	38298303	TT	CC	CC	INTERGENIC			
SNP_57170_A_38298587	NC_021166.1	Ca_Kabuli_Chr07	38298587	CC	TT	TT	INTERGENIC			
SNP_57171_A_38298588	NC_021166.1	Ca_Kabuli_Chr07	38298588	AA	CC	TT	INTERGENIC			
SNP_57172_A_38298589	NC_021166.1	Ca_Kabuli_Chr07	38298589	AA	CC	CC	INTERGENIC			
SNP_57173_A_38298591	NC_021166.1	Ca_Kabuli_Chr07	38298591	CC	TT	TT	INTERGENIC			
SNP_57174_A_38298618	NC_021166.1	Ca_Kabuli_Chr07	38298618	CC	TT	TT	INTERGENIC			
SNP_57175_A_38298624	NC_021166.1	Ca_Kabuli_Chr07	38298624	GG	AA	AA	INTERGENIC			
SNP_57176_A_38298632	NC_021166.1	Ca_Kabuli_Chr07	38298632	TT	AA	AA	INTERGENIC			
SNP_57177_A_38298769	NC_021166.1	Ca_Kabuli_Chr07	38298769	CC	AA	AA	INTERGENIC			
SNP_57179_A_38298793	NC_021166.1	Ca_Kabuli_Chr07	38298793	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57180_A_38298799	NC_021166.1	Ca_Kabuli_Chr07	38298799	GG	AA	AA	INTERGENIC		
SNP_57181_A_38298829	NC_021166.1	Ca_Kabuli_Chr07	38298829	AA	GG	GG	INTERGENIC		
SNP_57182_A_38298854	NC_021166.1	Ca_Kabuli_Chr07	38298854	TT	GG	GG	INTERGENIC		
SNP_57183_A_38301620	NC_021166.1	Ca_Kabuli_Chr07	38301620	TT	CC	CC	INTERGENIC		
SNP_57184_A_38302039	NC_021166.1	Ca_Kabuli_Chr07	38302039	GG	AA	AA	DRR	101513656	uncharacterized LOC101513656
SNP_57185_A_38302088	NC_021166.1	Ca_Kabuli_Chr07	38302088	TT	CC	CC	DRR	101513656	uncharacterized LOC101513656
SNP_57187_A_38333652	NC_021166.1	Ca_Kabuli_Chr07	38333652	GG	AA	AA	DRR	101514317	ATPase ASNA1 homolog
SNP_57188_A_38352667	NC_021166.1	Ca_Kabuli_Chr07	38352667	AA	GG	GG	INTERGENIC		
SNP_57189_A_38368422	NC_021166.1	Ca_Kabuli_Chr07	38368422	AA	GG	GG	INTERGENIC		
SNP_57191_A_38396549	NC_021166.1	Ca_Kabuli_Chr07	38396549	CC	TT	TT	INTERGENIC		
SNP_57192_A_38399233	NC_021166.1	Ca_Kabuli_Chr07	38399233	CC	TT	TT	INTERGENIC		
SNP_57193_A_38399858	NC_021166.1	Ca_Kabuli_Chr07	38399858	CC	TT	TT	INTERGENIC		
SNP_57194_A_38399875	NC_021166.1	Ca_Kabuli_Chr07	38399875	GG	AA	AA	INTERGENIC		
SNP_57195_A_38399879	NC_021166.1	Ca_Kabuli_Chr07	38399879	TT	CC	CC	INTERGENIC		
SNP_57197_A_38449368	NC_021166.1	Ca_Kabuli_Chr07	38449368	AA	TT	TT	INTERGENIC		
SNP_57198_A_38457014	NC_021166.1	Ca_Kabuli_Chr07	38457014	AA	GG	GG	INTERGENIC		
SNP_57199_A_38457021	NC_021166.1	Ca_Kabuli_Chr07	38457021	AA	GG	GG	INTERGENIC		
SNP_57202_A_38478340	NC_021166.1	Ca_Kabuli_Chr07	38478340	TT	AA	AA	INTERGENIC		
SNP_57203_A_38478343	NC_021166.1	Ca_Kabuli_Chr07	38478343	TT	GG	GG	INTERGENIC		
SNP_57204_A_38478363	NC_021166.1	Ca_Kabuli_Chr07	38478363	AA	GG	GG	INTERGENIC		
SNP_57205_A_38478365	NC_021166.1	Ca_Kabuli_Chr07	38478365	CC	TT	TT	INTERGENIC		
SNP_57206_A_38509762	NC_021166.1	Ca_Kabuli_Chr07	38509762	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57207_A_38514155	NC_021166.1	Ca_Kabuli_Chr07	38514155	AA	TT	TT	URR	101498130	Unknown function
SNP_57209_A_38555272	NC_021166.1	Ca_Kabuli_Chr07	38555272	TT	GG	GG	INTERGENIC		
SNP_57210_A_38555283	NC_021166.1	Ca_Kabuli_Chr07	38555283	CC	AA	AA	INTERGENIC		
SNP_57211_A_38555300	NC_021166.1	Ca_Kabuli_Chr07	38555300	CC	AA	AA	INTERGENIC		
SNP_57214_A_38613468	NC_021166.1	Ca_Kabuli_Chr07	38613468	AA	CC	CC	INTERGENIC		
SNP_57216_A_38631077	NC_021166.1	Ca_Kabuli_Chr07	38631077	CC	AA	AA	INTERGENIC		
SNP_57217_A_38647268	NC_021166.1	Ca_Kabuli_Chr07	38647268	GG	AA	AA	INTRON	101489691	MADS-box protein SOC1
SNP_57218_A_38647272	NC_021166.1	Ca_Kabuli_Chr07	38647272	GG	AA	AA	INTRON	101489691	MADS-box protein SOC1
SNP_57220_A_38677661	NC_021166.1	Ca_Kabuli_Chr07	38677661	AA	GG	GG	INTERGENIC		
SNP_57221_A_38718756	NC_021166.1	Ca_Kabuli_Chr07	38718756	CC	TT	TT	INTERGENIC		
SNP_57222_A_38720981	NC_021166.1	Ca_Kabuli_Chr07	38720981	TT	CC	CC	INTERGENIC		
SNP_57223_A_38739110	NC_021166.1	Ca_Kabuli_Chr07	38739110	AA	GG	GG	INTERGENIC		
SNP_57224_A_38740213	NC_021166.1	Ca_Kabuli_Chr07	38740213	AA	TT	TT	INTERGENIC		
SNP_57226_A_38744291	NC_021166.1	Ca_Kabuli_Chr07	38744291	AA	CC	CC	INTERGENIC		
SNP_57228_A_38778109	NC_021166.1	Ca_Kabuli_Chr07	38778109	GG	AA	AA	INTERGENIC		
SNP_57229_A_38809233	NC_021166.1	Ca_Kabuli_Chr07	38809233	AA	GG	GG	URR	101491937	gibberellin 20 oxidase 2-like
SNP_57230_A_38810853	NC_021166.1	Ca_Kabuli_Chr07	38810853	GG	AA	AA	INTERGENIC		
SNP_57231_A_38810875	NC_021166.1	Ca_Kabuli_Chr07	38810875	CC	AA	AA	INTERGENIC		
SNP_57232_A_38826555	NC_021166.1	Ca_Kabuli_Chr07	38826555	TT	GG	GG	INTERGENIC		
SNP_57233_A_38847787	NC_021166.1	Ca_Kabuli_Chr07	38847787	CC	TT	TT	INTERGENIC		
SNP_57234_A_38861874	NC_021166.1	Ca_Kabuli_Chr07	38861874	AA	CC	CC	INTERGENIC		
SNP_57235_A_38861881	NC_021166.1	Ca_Kabuli_Chr07	38861881	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57236_A_38861938	NC_021166.1	Ca_Kabuli_Chr07	38861938	TT	GG	GG	INTERGENIC			
SNP_57237_A_38866143	NC_021166.1	Ca_Kabuli_Chr07	38866143	GG	AA	AA	INTERGENIC			
SNP_57238_A_38872069	NC_021166.1	Ca_Kabuli_Chr07	38872069	GG	AA	AA	INTERGENIC			
SNP_57239_A_38882652	NC_021166.1	Ca_Kabuli_Chr07	38882652	TT	CC	CC	INTERGENIC			
SNP_57240_A_38882678	NC_021166.1	Ca_Kabuli_Chr07	38882678	GG	AA	AA	INTERGENIC			
SNP_57241_A_38882767	NC_021166.1	Ca_Kabuli_Chr07	38882767	GG	AA	AA	INTERGENIC			
SNP_57242_A_38883008	NC_021166.1	Ca_Kabuli_Chr07	38883008	CC	TT	TT	INTERGENIC			
SNP_57243_A_38883029	NC_021166.1	Ca_Kabuli_Chr07	38883029	TT	CC	CC	INTERGENIC			
SNP_57245_A_3889353	NC_021166.1	Ca_Kabuli_Chr07	3889353	TT	CC	CC	INTERGENIC			
SNP_57246_A_38906121	NC_021166.1	Ca_Kabuli_Chr07	38906121	TT	GG	GG	INTERGENIC			
SNP_57247_A_38983863	NC_021166.1	Ca_Kabuli_Chr07	38983863	AA	GG	GG	INTERGENIC			
SNP_57248_A_38983949	NC_021166.1	Ca_Kabuli_Chr07	38983949	GG	AA	AA	INTERGENIC			
SNP_57249_A_38990969	NC_021166.1	Ca_Kabuli_Chr07	38990969	TT	GG	GG	URR	101501335	Unknown function	
SNP_57250_A_38991187	NC_021166.1	Ca_Kabuli_Chr07	38991187	AA	TT	TT	URR	101501335	Unknown function	
SNP_57251_A_38991210	NC_021166.1	Ca_Kabuli_Chr07	38991210	CC	AA	AA	URR	101501335	Unknown function	
SNP_57252_A_38991215	NC_021166.1	Ca_Kabuli_Chr07	38991215	GG	TT	TT	URR	101501335	Unknown function	
SNP_57253_A_38991261	NC_021166.1	Ca_Kabuli_Chr07	38991261	GG	AA	AA	URR	101501335	Unknown function	
SNP_57254_A_38993341	NC_021166.1	Ca_Kabuli_Chr07	38993341	CC	AA	AA	INTERGENIC			
SNP_57255_A_39005226	NC_021166.1	Ca_Kabuli_Chr07	39005226	AA	CC	CC	INTERGENIC			
SNP_57256_A_39011204	NC_021166.1	Ca_Kabuli_Chr07	39011204	TT	CC	CC	INTRON	101501964	13-hydroxylupanine O-tigloyltransferase-like	
SNP_57257_A_39011208	NC_021166.1	Ca_Kabuli_Chr07	39011208	AA	CC	CC	INTRON	101501964	13-hydroxylupanine O-tigloyltransferase-like	
SNP_57258_A_39011218	NC_021166.1	Ca_Kabuli_Chr07	39011218	TT	CC	CC	INTRON	101501964	13-hydroxylupanine O-tigloyltransferase-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57259_A_39017594	NC_021166.1	Ca_Kabuli_Chr07	39017594	GG	AA	AA	INTERGENIC		
SNP_57260_A_39020750	NC_021166.1	Ca_Kabuli_Chr07	39020750	GG	TT	TT	URR	101493590	probable carboxylesterase 8
SNP_57261_A_39020774	NC_021166.1	Ca_Kabuli_Chr07	39020774	GG	AA	AA	URR	101493590	probable carboxylesterase 8
SNP_57262_A_39020801	NC_021166.1	Ca_Kabuli_Chr07	39020801	TT	CC	CC	URR	101493590	probable carboxylesterase 8
SNP_57263_A_39029638	NC_021166.1	Ca_Kabuli_Chr07	39029638	AA	GG	GG	INTERGENIC		
SNP_57264_A_39029639	NC_021166.1	Ca_Kabuli_Chr07	39029639	CC	TT	TT	INTERGENIC		
SNP_57265_A_39033377	NC_021166.1	Ca_Kabuli_Chr07	39033377	TT	AA	AA	INTERGENIC		
SNP_57266_A_39033437	NC_021166.1	Ca_Kabuli_Chr07	39033437	TT	CC	CC	INTERGENIC		
SNP_57267_A_39046983	NC_021166.1	Ca_Kabuli_Chr07	39046983	TT	CC	CC	INTERGENIC		
SNP_57268_A_39048445	NC_021166.1	Ca_Kabuli_Chr07	39048445	TT	CC	CC	INTERGENIC		
SNP_57269_A_39051772	NC_021166.1	Ca_Kabuli_Chr07	39051772	GG	AA	AA	INTERGENIC		
SNP_57270_A_39054960	NC_021166.1	Ca_Kabuli_Chr07	39054960	GG	AA	AA	INTERGENIC		
SNP_57271_A_39055173	NC_021166.1	Ca_Kabuli_Chr07	39055173	AA	CC	CC	INTERGENIC		
SNP_57272_A_39055178	NC_021166.1	Ca_Kabuli_Chr07	39055178	TT	AA	AA	INTERGENIC		
SNP_57273_A_39055354	NC_021166.1	Ca_Kabuli_Chr07	39055354	AA	GG	GG	INTERGENIC		
SNP_57274_A_39059605	NC_021166.1	Ca_Kabuli_Chr07	39059605	AA	GG	GG	INTERGENIC		
SNP_57275_A_39061375	NC_021166.1	Ca_Kabuli_Chr07	39061375	AA	GG	GG	INTERGENIC		
SNP_57276_A_39135531	NC_021166.1	Ca_Kabuli_Chr07	39135531	TT	AA	AA	START_GAINED	101503139	synaptotagmin-5-like
SNP_57277_A_39139211	NC_021166.1	Ca_Kabuli_Chr07	39139211	GG	AA	AA	INTERGENIC		
SNP_57278_A_39139268	NC_021166.1	Ca_Kabuli_Chr07	39139268	GG	AA	AA	INTERGENIC		
SNP_57279_A_39149687	NC_021166.1	Ca_Kabuli_Chr07	39149687	CC	TT	TT	INTERGENIC		
SNP_57281_A_39149781	NC_021166.1	Ca_Kabuli_Chr07	39149781	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57282_A_39149790	NC_021166.1	Ca_Kabuli_Chr07	39149790	GG	TT	TT	INTERGENIC		
SNP_57283_A_39149796	NC_021166.1	Ca_Kabuli_Chr07	39149796	AA	TT	TT	INTERGENIC		
SNP_57284_A_39204924	NC_021166.1	Ca_Kabuli_Chr07	39204924	CC	TT	TT	INTRON	101504120	BEACH domain-containing protein lvsC-like
SNP_57286_A_39309472	NC_021166.1	Ca_Kabuli_Chr07	39309472	CC	TT	TT	INTERGENIC		
SNP_57287_A_39329300	NC_021166.1	Ca_Kabuli_Chr07	39329300	CC	AA	AA	DRR	101506253	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8-B
SNP_57288_A_39370830	NC_021166.1	Ca_Kabuli_Chr07	39370830	GG	CC	CC	INTERGENIC		
SNP_57289_A_39371513	NC_021166.1	Ca_Kabuli_Chr07	39371513	AA	CC	CC	INTERGENIC		
SNP_57291_A_39461172	NC_021166.1	Ca_Kabuli_Chr07	39461172	AA	GG	GG	INTERGENIC		
SNP_57292_A_39521323	NC_021166.1	Ca_Kabuli_Chr07	39521323	CC	TT	TT	INTERGENIC		
SNP_57293_A_39521324	NC_021166.1	Ca_Kabuli_Chr07	39521324	CC	TT	TT	INTERGENIC		
SNP_57294_A_39521328	NC_021166.1	Ca_Kabuli_Chr07	39521328	CC	AA	AA	INTERGENIC		
SNP_57295_A_39523369	NC_021166.1	Ca_Kabuli_Chr07	39523369	CC	TT	TT	INTERGENIC		
SNP_57297_A_39554336	NC_021166.1	Ca_Kabuli_Chr07	39554336	TT	CC	CC	INTERGENIC		
SNP_57298_A_39554641	NC_021166.1	Ca_Kabuli_Chr07	39554641	TT	CC	CC	INTERGENIC		
SNP_57299_A_39554726	NC_021166.1	Ca_Kabuli_Chr07	39554726	AA	GG	GG	INTERGENIC		
SNP_57300_A_39575533	NC_021166.1	Ca_Kabuli_Chr07	39575533	GG	AA	AA	INTERGENIC		
SNP_57301_A_39575536	NC_021166.1	Ca_Kabuli_Chr07	39575536	AA	GG	GG	INTERGENIC		
SNP_57302_A_39575568	NC_021166.1	Ca_Kabuli_Chr07	39575568	CC	TT	TT	INTERGENIC		
SNP_57303_A_39577619	NC_021166.1	Ca_Kabuli_Chr07	39577619	CC	AA	AA	INTERGENIC		
SNP_57304_A_39582288	NC_021166.1	Ca_Kabuli_Chr07	39582288	CC	TT	TT	INTERGENIC		
SNP_57305_A_39602912	NC_021166.1	Ca_Kabuli_Chr07	39602912	GG	AA	AA	INTERGENIC		
SNP_57306_A_39621481	NC_021166.1	Ca_Kabuli_Chr07	39621481	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57307_A_39621606	NC_021166.1	Ca_Kabuli_Chr07	39621606	TT	CC	CC	INTERGENIC		
SNP_57308_A_39630382	NC_021166.1	Ca_Kabuli_Chr07	39630382	GG	AA	AA	INTERGENIC		
SNP_57309_A_39630533	NC_021166.1	Ca_Kabuli_Chr07	39630533	CC	GG	GG	INTERGENIC		
SNP_57310_A_39630635	NC_021166.1	Ca_Kabuli_Chr07	39630635	CC	GG	GG	INTERGENIC		
SNP_57311_A_39630666	NC_021166.1	Ca_Kabuli_Chr07	39630666	GG	AA	AA	INTERGENIC		
SNP_57312_A_39630696	NC_021166.1	Ca_Kabuli_Chr07	39630696	GG	AA	AA	INTERGENIC		
SNP_57313_A_39630786	NC_021166.1	Ca_Kabuli_Chr07	39630786	TT	CC	CC	INTERGENIC		
SNP_57314_A_39630799	NC_021166.1	Ca_Kabuli_Chr07	39630799	CC	TT	TT	INTERGENIC		
SNP_57315_A_39639598	NC_021166.1	Ca_Kabuli_Chr07	39639598	GG	AA	AA	INTERGENIC		
SNP_57316_A_39719823	NC_021166.1	Ca_Kabuli_Chr07	39719823	CC	AA	AA	INTERGENIC		
SNP_57317_A_39760470	NC_021166.1	Ca_Kabuli_Chr07	39760470	AA	TT	TT	INTERGENIC		
SNP_57318_A_39790544	NC_021166.1	Ca_Kabuli_Chr07	39790544	TT	CC	CC	INTRON	101514527	MATE efflux family protein FRD3-like
SNP_57319_A_39819571	NC_021166.1	Ca_Kabuli_Chr07	39819571	TT	GG	GG	INTERGENIC		
SNP_57320_A_39829230	NC_021166.1	Ca_Kabuli_Chr07	39829230	AA	GG	GG	INTERGENIC		
SNP_57321_A_39829268	NC_021166.1	Ca_Kabuli_Chr07	39829268	CC	TT	TT	INTERGENIC		
SNP_57322_A_39829293	NC_021166.1	Ca_Kabuli_Chr07	39829293	AA	GG	GG	INTERGENIC		
SNP_57323_A_39829484	NC_021166.1	Ca_Kabuli_Chr07	39829484	TT	CC	CC	INTERGENIC		
SNP_57324_A_39829493	NC_021166.1	Ca_Kabuli_Chr07	39829493	GG	AA	AA	INTERGENIC		
SNP_57325_A_39829623	NC_021166.1	Ca_Kabuli_Chr07	39829623	GG	AA	AA	INTERGENIC		
SNP_57326_A_39829645	NC_021166.1	Ca_Kabuli_Chr07	39829645	GG	TT	TT	INTERGENIC		
SNP_57327_A_39829698	NC_021166.1	Ca_Kabuli_Chr07	39829698	AA	GG	GG	INTERGENIC		
SNP_57328_A_39829751	NC_021166.1	Ca_Kabuli_Chr07	39829751	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57329_A_39829922	NC_021166.1	Ca_Kabuli_Chr07	39829922	CC	AA	AA	INTERGENIC			
SNP_57330_A_39830287	NC_021166.1	Ca_Kabuli_Chr07	39830287	GG	CC	CC	INTERGENIC			
SNP_57332_A_39830675	NC_021166.1	Ca_Kabuli_Chr07	39830675	TT	CC	CC	INTERGENIC			
SNP_57333_A_39830907	NC_021166.1	Ca_Kabuli_Chr07	39830907	CC	GG	GG	INTERGENIC			
SNP_57334_A_39844866	NC_021166.1	Ca_Kabuli_Chr07	39844866	TT	CC	CC	INTERGENIC			
SNP_57335_A_39845456	NC_021166.1	Ca_Kabuli_Chr07	39845456	GG	AA	AA	INTERGENIC			
SNP_57336_A_39846468	NC_021166.1	Ca_Kabuli_Chr07	39846468	AA	GG	GG	INTERGENIC			
SNP_57337_A_39847577	NC_021166.1	Ca_Kabuli_Chr07	39847577	GG	AA	AA	INTERGENIC			
SNP_57338_A_39847954	NC_021166.1	Ca_Kabuli_Chr07	39847954	AA	GG	GG	INTERGENIC			
SNP_57339_A_39848111	NC_021166.1	Ca_Kabuli_Chr07	39848111	AA	CC	CC	INTERGENIC			
SNP_57340_A_39848126	NC_021166.1	Ca_Kabuli_Chr07	39848126	TT	CC	CC	INTERGENIC			
SNP_57341_A_39848151	NC_021166.1	Ca_Kabuli_Chr07	39848151	AA	CC	CC	INTERGENIC			
SNP_57342_A_39850486	NC_021166.1	Ca_Kabuli_Chr07	39850486	CC	AA	AA	INTERGENIC			
SNP_57343_A_39850539	NC_021166.1	Ca_Kabuli_Chr07	39850539	GG	AA	AA	INTERGENIC			
SNP_57344_A_39850587	NC_021166.1	Ca_Kabuli_Chr07	39850587	GG	AA	AA	INTERGENIC			
SNP_57345_A_39850610	NC_021166.1	Ca_Kabuli_Chr07	39850610	CC	AA	AA	INTERGENIC			
SNP_57346_A_39850630	NC_021166.1	Ca_Kabuli_Chr07	39850630	AA	GG	GG	INTERGENIC			
SNP_57347_A_39850746	NC_021166.1	Ca_Kabuli_Chr07	39850746	CC	TT	TT	INTERGENIC			
SNP_57348_A_39850999	NC_021166.1	Ca_Kabuli_Chr07	39850999	AA	TT	TT	INTERGENIC			
SNP_57349_A_39851001	NC_021166.1	Ca_Kabuli_Chr07	39851001	TT	CC	CC	INTERGENIC			
SNP_57350_A_39851041	NC_021166.1	Ca_Kabuli_Chr07	39851041	TT	CC	CC	INTERGENIC			
SNP_57352_A_39899449	NC_021166.1	Ca_Kabuli_Chr07	39899449	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57353_A_39900149	NC_021166.1	Ca_Kabuli_Chr07	39900149	TT	CC	CC	INTERGENIC			
SNP_57354_A_39900165	NC_021166.1	Ca_Kabuli_Chr07	39900165	AA	CC	CC	INTERGENIC			
SNP_57355_A_39900173	NC_021166.1	Ca_Kabuli_Chr07	39900173	AA	CC	CC	INTERGENIC			
SNP_57356_A_39902293	NC_021166.1	Ca_Kabuli_Chr07	39902293	GG	TT	TT	INTERGENIC			
SNP_57357_A_39930759	NC_021166.1	Ca_Kabuli_Chr07	39930759	CC	AA	AA	INTERGENIC			
SNP_57360_A_39934656	NC_021166.1	Ca_Kabuli_Chr07	39934656	TT	CC	CC	URR	101488247	60S ribosomal protein L36-3-like	
SNP_57361_A_39934667	NC_021166.1	Ca_Kabuli_Chr07	39934667	AA	GG	GG	URR	101488247	60S ribosomal protein L36-3-like	
SNP_57362_A_39934685	NC_021166.1	Ca_Kabuli_Chr07	39934685	TT	GG	GG	URR	101488247	60S ribosomal protein L36-3-like	
SNP_57363_A_39949690	NC_021166.1	Ca_Kabuli_Chr07	39949690	TT	CC	CC	INTERGENIC			
SNP_57364_A_39973512	NC_021166.1	Ca_Kabuli_Chr07	39973512	TT	GG	GG	INTERGENIC			
SNP_57365_A_39973514	NC_021166.1	Ca_Kabuli_Chr07	39973514	AA	GG	GG	INTERGENIC			
SNP_57366_A_39983722	NC_021166.1	Ca_Kabuli_Chr07	39983722	CC	AA	AA	INTERGENIC			
SNP_57368_A_39988233	NC_021166.1	Ca_Kabuli_Chr07	39988233	CC	TT	TT	INTERGENIC			
SNP_57369_A_39998114	NC_021166.1	Ca_Kabuli_Chr07	39998114	CC	AA	AA	INTERGENIC			
SNP_57370_A_40006408	NC_021166.1	Ca_Kabuli_Chr07	40006408	AA	CC	CC	INTERGENIC			
SNP_57371_A_40013518	NC_021166.1	Ca_Kabuli_Chr07	40013518	TT	CC	CC	URR	101410603	transfer RNA serine (anticodon GCU)	
SNP_57372_A_40013676	NC_021166.1	Ca_Kabuli_Chr07	40013676	GG	TT	TT	URR	101410603	transfer RNA serine (anticodon GCU)	
SNP_57373_A_40036257	NC_021166.1	Ca_Kabuli_Chr07	40036257	CC	TT	TT	INTERGENIC			
SNP_57374_A_40037237	NC_021166.1	Ca_Kabuli_Chr07	40037237	TT	AA	AA	INTERGENIC			
SNP_57375_A_40037244	NC_021166.1	Ca_Kabuli_Chr07	40037244	AA	GG	GG	INTERGENIC			
SNP_57376_A_40048887	NC_021166.1	Ca_Kabuli_Chr07	40048887	TT	CC	CC	INTERGENIC			
SNP_57377_A_40048916	NC_021166.1	Ca_Kabuli_Chr07	40048916	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57378_A_40049138	NC_021166.1	Ca_Kabuli_Chr07	40049138	TT	CC	CC	INTERGENIC			
SNP_57379_A_40049580	NC_021166.1	Ca_Kabuli_Chr07	40049580	CC	GG	GG	INTERGENIC			
SNP_57380_A_40049596	NC_021166.1	Ca_Kabuli_Chr07	40049596	AA	CC	CC	INTERGENIC			
SNP_57381_A_40049662	NC_021166.1	Ca_Kabuli_Chr07	40049662	TT	CC	CC	INTERGENIC			
SNP_57382_A_40049697	NC_021166.1	Ca_Kabuli_Chr07	40049697	GG	AA	AA	INTERGENIC			
SNP_57383_A_40049744	NC_021166.1	Ca_Kabuli_Chr07	40049744	TT	CC	CC	INTERGENIC			
SNP_57384_A_40049757	NC_021166.1	Ca_Kabuli_Chr07	40049757	TT	AA	AA	INTERGENIC			
SNP_57385_A_40049763	NC_021166.1	Ca_Kabuli_Chr07	40049763	AA	GG	GG	INTERGENIC			
SNP_57386_A_40049900	NC_021166.1	Ca_Kabuli_Chr07	40049900	AA	GG	GG	INTERGENIC			
SNP_57387_A_40049907	NC_021166.1	Ca_Kabuli_Chr07	40049907	AA	GG	GG	INTERGENIC			
SNP_57388_A_40049909	NC_021166.1	Ca_Kabuli_Chr07	40049909	AA	GG	GG	INTERGENIC			
SNP_57389_A_40049965	NC_021166.1	Ca_Kabuli_Chr07	40049965	AA	GG	GG	INTERGENIC			
SNP_57390_A_40050007	NC_021166.1	Ca_Kabuli_Chr07	40050007	TT	GG	GG	INTERGENIC			
SNP_57391_A_40056539	NC_021166.1	Ca_Kabuli_Chr07	40056539	TT	CC	CC	INTERGENIC			
SNP_57392_A_40077684	NC_021166.1	Ca_Kabuli_Chr07	40077684	GG	TT	TT	URR	101493473	transcription factor bHLH130-like	
SNP_57394_A_40086996	NC_021166.1	Ca_Kabuli_Chr07	40086996	AA	TT	TT	INTERGENIC			
SNP_57395_A_40086997	NC_021166.1	Ca_Kabuli_Chr07	40086997	TT	GG	GG	INTERGENIC			
SNP_57396_A_40087001	NC_021166.1	Ca_Kabuli_Chr07	40087001	TT	CC	CC	INTERGENIC			
SNP_57397_A_40087179	NC_021166.1	Ca_Kabuli_Chr07	40087179	TT	AA	AA	INTERGENIC			
SNP_57398_A_40087196	NC_021166.1	Ca_Kabuli_Chr07	40087196	AA	GG	GG	INTERGENIC			
SNP_57399_A_40088496	NC_021166.1	Ca_Kabuli_Chr07	40088496	AA	GG	GG	INTERGENIC			
SNP_57400_A_40088561	NC_021166.1	Ca_Kabuli_Chr07	40088561	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57401_A_40088598	NC_021166.1	Ca_Kabuli_Chr07	40088598	CC	AA	AA	INTERGENIC		
SNP_57403_A_40089891	NC_021166.1	Ca_Kabuli_Chr07	40089891	CC	TT	TT	INTERGENIC		
SNP_57404_A_40118888	NC_021166.1	Ca_Kabuli_Chr07	40118888	AA	GG	GG	INTERGENIC		
SNP_57405_A_40118943	NC_021166.1	Ca_Kabuli_Chr07	40118943	AA	GG	GG	INTERGENIC		
SNP_57406_A_40153296	NC_021166.1	Ca_Kabuli_Chr07	40153296	AA	GG	GG	INTERGENIC		
SNP_57407_A_40153297	NC_021166.1	Ca_Kabuli_Chr07	40153297	CC	TT	TT	INTERGENIC		
SNP_57409_A_40209862	NC_021166.1	Ca_Kabuli_Chr07	40209862	AA	CC	CC	INTERGENIC		
SNP_57410_A_40224133	NC_021166.1	Ca_Kabuli_Chr07	40224133	GG	AA	AA	INTERGENIC		
SNP_57411_A_40255801	NC_021166.1	Ca_Kabuli_Chr07	40255801	TT	AA	AA	INTRON	101499217	classical arabinogalactan protein 9-like
SNP_57412_A_40277229	NC_021166.1	Ca_Kabuli_Chr07	40277229	AA	TT	TT	INTERGENIC		
SNP_57413_A_40386630	NC_021166.1	Ca_Kabuli_Chr07	40386630	CC	TT	TT	INTERGENIC		
SNP_57415_A_40429662	NC_021166.1	Ca_Kabuli_Chr07	40429662	GG	AA	AA	INTERGENIC		
SNP_57416_A_40429663	NC_021166.1	Ca_Kabuli_Chr07	40429663	AA	GG	GG	INTERGENIC		
SNP_57417_A_40429796	NC_021166.1	Ca_Kabuli_Chr07	40429796	AA	GG	GG	INTERGENIC		
SNP_57418_A_40429870	NC_021166.1	Ca_Kabuli_Chr07	40429870	CC	GG	GG	INTERGENIC		
SNP_57419_A_40429976	NC_021166.1	Ca_Kabuli_Chr07	40429976	AA	GG	GG	INTERGENIC		
SNP_57420_A_40430085	NC_021166.1	Ca_Kabuli_Chr07	40430085	AA	CC	CC	INTERGENIC		
SNP_57421_A_40430109	NC_021166.1	Ca_Kabuli_Chr07	40430109	GG	AA	AA	INTERGENIC		
SNP_57422_A_40430110	NC_021166.1	Ca_Kabuli_Chr07	40430110	AA	GG	GG	INTERGENIC		
SNP_57424_A_40430182	NC_021166.1	Ca_Kabuli_Chr07	40430182	TT	GG	GG	INTERGENIC		
SNP_57425_A_40430183	NC_021166.1	Ca_Kabuli_Chr07	40430183	TT	CC	CC	INTERGENIC		
SNP_57426_A_40474106	NC_021166.1	Ca_Kabuli_Chr07	40474106	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57427_A_40474107	NC_021166.1	Ca_Kabuli_Chr07	40474107	AA	TT	TT	INTERGENIC		
SNP_57428_A_40474108	NC_021166.1	Ca_Kabuli_Chr07	40474108	AA	TT	TT	INTERGENIC		
SNP_57429_A_40474121	NC_021166.1	Ca_Kabuli_Chr07	40474121	TT	CC	CC	INTERGENIC		
SNP_57430_A_40474281	NC_021166.1	Ca_Kabuli_Chr07	40474281	CC	GG	GG	INTERGENIC		
SNP_57431_A_40489992	NC_021166.1	Ca_Kabuli_Chr07	40489992	CC	AA	AA	INTERGENIC		
SNP_57432_A_40555097	NC_021166.1	Ca_Kabuli_Chr07	40555097	TT	CC	CC	INTERGENIC		
SNP_57433_A_40555188	NC_021166.1	Ca_Kabuli_Chr07	40555188	AA	GG	GG	INTERGENIC		
SNP_57434_A_40555322	NC_021166.1	Ca_Kabuli_Chr07	40555322	TT	CC	CC	INTERGENIC		
SNP_57435_A_40555345	NC_021166.1	Ca_Kabuli_Chr07	40555345	GG	TT	TT	INTERGENIC		
SNP_57436_A_40555542	NC_021166.1	Ca_Kabuli_Chr07	40555542	TT	CC	CC	INTERGENIC		
SNP_57437_A_40555580	NC_021166.1	Ca_Kabuli_Chr07	40555580	CC	TT	TT	INTERGENIC		
SNP_57438_A_40555614	NC_021166.1	Ca_Kabuli_Chr07	40555614	CC	AA	AA	INTERGENIC		
SNP_57439_A_40555641	NC_021166.1	Ca_Kabuli_Chr07	40555641	TT	CC	CC	INTERGENIC		
SNP_57440_A_40555686	NC_021166.1	Ca_Kabuli_Chr07	40555686	TT	GG	GG	INTERGENIC		
SNP_57441_A_40575885	NC_021166.1	Ca_Kabuli_Chr07	40575885	GG	AA	AA	INTERGENIC		
SNP_57442_A_40589452	NC_021166.1	Ca_Kabuli_Chr07	40589452	AA	GG	GG	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57443_A_40589463	NC_021166.1	Ca_Kabuli_Chr07	40589463	TT	CC	CC	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57444_A_40589520	NC_021166.1	Ca_Kabuli_Chr07	40589520	TT	CC	CC	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57445_A_40589583	NC_021166.1	Ca_Kabuli_Chr07	40589583	AA	GG	GG	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57446_A_40589607	NC_021166.1	Ca_Kabuli_Chr07	40589607	TT	CC	CC	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57447_A_40589620	NC_021166.1	Ca_Kabuli_Chr07	40589620	CC	TT	TT	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57448_A_40589642	NC_021166.1	Ca_Kabuli_Chr07	40589642	TT	CC	CC	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like

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SNP_57449_A_40589649	NC_021166.1	Ca_Kabuli_Chr07	40589649	AA	TT	TT	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57450_A_40589673	NC_021166.1	Ca_Kabuli_Chr07	40589673	GG	AA	AA	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57451_A_40589712	NC_021166.1	Ca_Kabuli_Chr07	40589712	CC	GG	GG	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57452_A_40589733	NC_021166.1	Ca_Kabuli_Chr07	40589733	AA	TT	TT	SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57453_A_40589903	NC_021166.1	Ca_Kabuli_Chr07	40589903	AA	CC	CC	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57454_A_40589912	NC_021166.1	Ca_Kabuli_Chr07	40589912	AA	CC	CC	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57455_A_40589935	NC_021166.1	Ca_Kabuli_Chr07	40589935	TT	CC	CC	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57456_A_40590049	NC_021166.1	Ca_Kabuli_Chr07	40590049	TT	GG	GG	NON_SYNONYMOUS_CODING	101508612	aspartic proteinase CDR1-like
SNP_57458_A_40650339	NC_021166.1	Ca_Kabuli_Chr07	40650339	TT	CC	CC	INTERGENIC		
SNP_57459_A_40659698	NC_021166.1	Ca_Kabuli_Chr07	40659698	AA	TT	TT	INTRON	101509242	bidirectional sugar transporter SWEET2-like
SNP_57460_A_40748364	NC_021166.1	Ca_Kabuli_Chr07	40748364	AA	GG	GG	INTERGENIC		
SNP_57461_A_40748781	NC_021166.1	Ca_Kabuli_Chr07	40748781	TT	GG	GG	INTERGENIC		
SNP_57462_A_40748804	NC_021166.1	Ca_Kabuli_Chr07	40748804	AA	GG	GG	INTERGENIC		
SNP_57463_A_40768803	NC_021166.1	Ca_Kabuli_Chr07	40768803	CC	TT	TT	URR	101410596	transfer RNA arginine (anticodon ACG)
SNP_57464_A_40768860	NC_021166.1	Ca_Kabuli_Chr07	40768860	GG	AA	AA	URR	101410596	transfer RNA arginine (anticodon ACG)
SNP_57465_A_40769167	NC_021166.1	Ca_Kabuli_Chr07	40769167	CC	AA	AA	URR	101410596	transfer RNA arginine (anticodon ACG)
SNP_57466_A_40781945	NC_021166.1	Ca_Kabuli_Chr07	40781945	TT	GG	GG	INTERGENIC		
SNP_57467_A_40804812	NC_021166.1	Ca_Kabuli_Chr07	40804812	AA	TT	TT	URR	101510863	aspartic proteinase CDR1-like
SNP_57468_A_40888096	NC_021166.1	Ca_Kabuli_Chr07	40888096	CC	TT	TT	INTERGENIC		
SNP_57469_A_40888258	NC_021166.1	Ca_Kabuli_Chr07	40888258	TT	CC	CC	INTERGENIC		
SNP_57470_A_40888259	NC_021166.1	Ca_Kabuli_Chr07	40888259	GG	AA	AA	INTERGENIC		
SNP_57471_A_40897899	NC_021166.1	Ca_Kabuli_Chr07	40897899	CC	AA	AA	URR	101511726	aspartic proteinase CDR1-like

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SNP_57472_A_40911879	NC_021166.1	Ca_Kabuli_Chr07	40911879	AA	CC	CC	INTERGENIC			
SNP_57473_A_40957061	NC_021166.1	Ca_Kabuli_Chr07	40957061	GG	AA	AA	INTERGENIC			
SNP_57474_A_40963878	NC_021166.1	Ca_Kabuli_Chr07	40963878	CC	TT	TT	INTERGENIC			
SNP_57475_A_40965582	NC_021166.1	Ca_Kabuli_Chr07	40965582	CC	AA	AA	INTERGENIC			
SNP_57476_A_40978541	NC_021166.1	Ca_Kabuli_Chr07	40978541	AA	TT	TT	INTERGENIC			
SNP_57477_A_40978568	NC_021166.1	Ca_Kabuli_Chr07	40978568	TT	CC	CC	INTERGENIC			
SNP_57478_A_40978599	NC_021166.1	Ca_Kabuli_Chr07	40978599	CC	AA	AA	INTERGENIC			
SNP_57479_A_40978652	NC_021166.1	Ca_Kabuli_Chr07	40978652	CC	TT	TT	INTERGENIC			
SNP_57480_A_40978653	NC_021166.1	Ca_Kabuli_Chr07	40978653	GG	AA	AA	INTERGENIC			
SNP_57481_A_40978666	NC_021166.1	Ca_Kabuli_Chr07	40978666	AA	GG	GG	INTERGENIC			
SNP_57482_A_40978670	NC_021166.1	Ca_Kabuli_Chr07	40978670	CC	GG	GG	INTERGENIC			
SNP_57483_A_40978689	NC_021166.1	Ca_Kabuli_Chr07	40978689	TT	CC	CC	INTERGENIC			
SNP_57484_A_40978692	NC_021166.1	Ca_Kabuli_Chr07	40978692	TT	CC	CC	INTERGENIC			
SNP_57485_A_40980909	NC_021166.1	Ca_Kabuli_Chr07	40980909	AA	GG	GG	INTERGENIC			
SNP_57486_A_40982263	NC_021166.1	Ca_Kabuli_Chr07	40982263	AA	GG	GG	INTERGENIC			
SNP_57487_A_40982377	NC_021166.1	Ca_Kabuli_Chr07	40982377	TT	AA	AA	INTERGENIC			
SNP_57488_A_40982406	NC_021166.1	Ca_Kabuli_Chr07	40982406	TT	CC	CC	INTERGENIC			
SNP_57489_A_40982585	NC_021166.1	Ca_Kabuli_Chr07	40982585	AA	GG	GG	INTERGENIC			
SNP_57491_A_40985058	NC_021166.1	Ca_Kabuli_Chr07	40985058	AA	TT	TT	DRR	101512042	aspartic proteinase CDR1-like	
SNP_57492_A_40985074	NC_021166.1	Ca_Kabuli_Chr07	40985074	CC	AA	AA	DRR	101512042	aspartic proteinase CDR1-like	
SNP_57493_A_40985089	NC_021166.1	Ca_Kabuli_Chr07	40985089	CC	TT	TT	DRR	101512042	aspartic proteinase CDR1-like	
SNP_57494_A_40985097	NC_021166.1	Ca_Kabuli_Chr07	40985097	GG	AA	AA	NON_SYNONYMOUS_CODING	101512042	aspartic proteinase CDR1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57495_A_40985100	NC_021166.1	Ca_Kabuli_Chr07	40985100	CC	TT	TT	NON_SYNONYMOUS_CODING	101512042	aspartic proteinase CDR1-like
SNP_57496_A_40985109	NC_021166.1	Ca_Kabuli_Chr07	40985109	CC	GG	GG	NON_SYNONYMOUS_CODING	101512042	aspartic proteinase CDR1-like
SNP_57497_A_40985117	NC_021166.1	Ca_Kabuli_Chr07	40985117	AA	TT	TT	SYNONYMOUS_CODING	101512042	aspartic proteinase CDR1-like
SNP_57498_A_40985319	NC_021166.1	Ca_Kabuli_Chr07	40985319	GG	AA	AA	NON_SYNONYMOUS_CODING	101512042	aspartic proteinase CDR1-like
SNP_57499_A_40986757	NC_021166.1	Ca_Kabuli_Chr07	40986757	AA	TT	TT	URR	101512042	aspartic proteinase CDR1-like
SNP_57500_A_40986759	NC_021166.1	Ca_Kabuli_Chr07	40986759	TT	AA	AA	URR	101512042	aspartic proteinase CDR1-like
SNP_57501_A_40986781	NC_021166.1	Ca_Kabuli_Chr07	40986781	AA	TT	TT	URR	101512042	aspartic proteinase CDR1-like
SNP_57502_A_40986787	NC_021166.1	Ca_Kabuli_Chr07	40986787	TT	AA	AA	URR	101512042	aspartic proteinase CDR1-like
SNP_57503_A_40986794	NC_021166.1	Ca_Kabuli_Chr07	40986794	AA	TT	TT	URR	101512042	aspartic proteinase CDR1-like
SNP_57504_A_40986816	NC_021166.1	Ca_Kabuli_Chr07	40986816	AA	CC	CC	URR	101512042	aspartic proteinase CDR1-like
SNP_57505_A_40986817	NC_021166.1	Ca_Kabuli_Chr07	40986817	TT	CC	CC	URR	101512042	aspartic proteinase CDR1-like
SNP_57506_A_40986820	NC_021166.1	Ca_Kabuli_Chr07	40986820	AA	TT	TT	URR	101512042	aspartic proteinase CDR1-like
SNP_57507_A_40986853	NC_021166.1	Ca_Kabuli_Chr07	40986853	AA	CC	CC	URR	101512042	aspartic proteinase CDR1-like
SNP_57508_A_40990867	NC_021166.1	Ca_Kabuli_Chr07	40990867	GG	TT	TT	INTERGENIC		
SNP_57509_A_40990890	NC_021166.1	Ca_Kabuli_Chr07	40990890	GG	AA	AA	INTERGENIC		
SNP_57510_A_40990917	NC_021166.1	Ca_Kabuli_Chr07	40990917	AA	GG	GG	INTERGENIC		
SNP_57511_A_40990919	NC_021166.1	Ca_Kabuli_Chr07	40990919	AA	GG	GG	INTERGENIC		
SNP_57512_A_40990950	NC_021166.1	Ca_Kabuli_Chr07	40990950	CC	TT	TT	INTERGENIC		
SNP_57513_A_40990959	NC_021166.1	Ca_Kabuli_Chr07	40990959	CC	AA	AA	INTERGENIC		
SNP_57515_A_41008436	NC_021166.1	Ca_Kabuli_Chr07	41008436	AA	GG	GG	INTERGENIC		
SNP_57516_A_41008458	NC_021166.1	Ca_Kabuli_Chr07	41008458	TT	GG	GG	INTERGENIC		
SNP_57517_A_41008493	NC_021166.1	Ca_Kabuli_Chr07	41008493	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57518_A_41008546	NC_021166.1	Ca_Kabuli_Chr07	41008546	CC	TT	TT	INTERGENIC			
SNP_57519_A_41008565	NC_021166.1	Ca_Kabuli_Chr07	41008565	AA	GG	GG	INTERGENIC			
SNP_57520_A_41008607	NC_021166.1	Ca_Kabuli_Chr07	41008607	CC	GG	GG	INTERGENIC			
SNP_57521_A_41008692	NC_021166.1	Ca_Kabuli_Chr07	41008692	GG	AA	TT	INTERGENIC			
SNP_57522_A_41008705	NC_021166.1	Ca_Kabuli_Chr07	41008705	AA	GG	GG	INTERGENIC			
SNP_57523_A_41008762	NC_021166.1	Ca_Kabuli_Chr07	41008762	GG	TT	TT	INTERGENIC			
SNP_57524_A_41008824	NC_021166.1	Ca_Kabuli_Chr07	41008824	AA	CC	CC	INTERGENIC			
SNP_57525_A_41008833	NC_021166.1	Ca_Kabuli_Chr07	41008833	GG	AA	AA	INTERGENIC			
SNP_57526_A_41008839	NC_021166.1	Ca_Kabuli_Chr07	41008839	CC	TT	TT	INTERGENIC			
SNP_57527_A_41008877	NC_021166.1	Ca_Kabuli_Chr07	41008877	TT	AA	AA	INTERGENIC			
SNP_57528_A_41008915	NC_021166.1	Ca_Kabuli_Chr07	41008915	AA	GG	GG	INTERGENIC			
SNP_57529_A_41008944	NC_021166.1	Ca_Kabuli_Chr07	41008944	TT	CC	CC	INTERGENIC			
SNP_57530_A_41009240	NC_021166.1	Ca_Kabuli_Chr07	41009240	CC	GG	GG	INTERGENIC			
SNP_57531_A_41009243	NC_021166.1	Ca_Kabuli_Chr07	41009243	AA	TT	TT	INTERGENIC			
SNP_57532_A_41009249	NC_021166.1	Ca_Kabuli_Chr07	41009249	AA	TT	TT	INTERGENIC			
SNP_57533_A_41009304	NC_021166.1	Ca_Kabuli_Chr07	41009304	AA	CC	CC	INTERGENIC			
SNP_57534_A_41009399	NC_021166.1	Ca_Kabuli_Chr07	41009399	AA	TT	TT	INTERGENIC			
SNP_57535_A_41009586	NC_021166.1	Ca_Kabuli_Chr07	41009586	AA	GG	GG	INTERGENIC			
SNP_57537_A_41009987	NC_021166.1	Ca_Kabuli_Chr07	41009987	GG	AA	AA	INTERGENIC			
SNP_57538_A_41010116	NC_021166.1	Ca_Kabuli_Chr07	41010116	GG	AA	AA	INTERGENIC			
SNP_57540_A_41010247	NC_021166.1	Ca_Kabuli_Chr07	41010247	TT	AA	AA	INTERGENIC			
SNP_57541_A_41010343	NC_021166.1	Ca_Kabuli_Chr07	41010343	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57542_A_41026064	NC_021166.1	Ca_Kabuli_Chr07	41026064	AA	CC	CC	INTERGENIC			
SNP_57543_A_41027465	NC_021166.1	Ca_Kabuli_Chr07	41027465	AA	TT	TT	INTERGENIC			
SNP_57544_A_41027569	NC_021166.1	Ca_Kabuli_Chr07	41027569	AA	CC	CC	INTERGENIC			
SNP_57545_A_41027790	NC_021166.1	Ca_Kabuli_Chr07	41027790	AA	CC	CC	INTERGENIC			
SNP_57546_A_41027861	NC_021166.1	Ca_Kabuli_Chr07	41027861	AA	GG	GG	INTERGENIC			
SNP_57547_A_41027893	NC_021166.1	Ca_Kabuli_Chr07	41027893	TT	AA	AA	INTERGENIC			
SNP_57548_A_41060475	NC_021166.1	Ca_Kabuli_Chr07	41060475	CC	TT	TT	INTERGENIC			
SNP_57549_A_41060763	NC_021166.1	Ca_Kabuli_Chr07	41060763	CC	TT	TT	INTERGENIC			
SNP_57550_A_41096459	NC_021166.1	Ca_Kabuli_Chr07	41096459	TT	GG	GG	INTERGENIC			
SNP_57551_A_41098498	NC_021166.1	Ca_Kabuli_Chr07	41098498	TT	CC	CC	INTERGENIC			
SNP_57552_A_41102694	NC_021166.1	Ca_Kabuli_Chr07	41102694	GG	TT	TT	INTERGENIC			
SNP_57553_A_41111023	NC_021166.1	Ca_Kabuli_Chr07	41111023	GG	AA	AA	URR	101497143	uncharacterized LOC101497143	
SNP_57554_A_41129610	NC_021166.1	Ca_Kabuli_Chr07	41129610	CC	TT	TT	INTERGENIC			
SNP_57555_A_41129703	NC_021166.1	Ca_Kabuli_Chr07	41129703	CC	TT	TT	INTERGENIC			
SNP_57556_A_41158558	NC_021166.1	Ca_Kabuli_Chr07	41158558	AA	CC	CC	INTERGENIC			
SNP_57557_A_41158855	NC_021166.1	Ca_Kabuli_Chr07	41158855	GG	AA	AA	INTERGENIC			
SNP_57558_A_41158866	NC_021166.1	Ca_Kabuli_Chr07	41158866	AA	CC	CC	INTERGENIC			
SNP_57559_A_41167896	NC_021166.1	Ca_Kabuli_Chr07	41167896	GG	AA	AA	INTERGENIC			
SNP_57560_A_41167901	NC_021166.1	Ca_Kabuli_Chr07	41167901	GG	AA	AA	INTERGENIC			
SNP_57561_A_41167907	NC_021166.1	Ca_Kabuli_Chr07	41167907	TT	GG	GG	INTERGENIC			
SNP_57562_A_41167913	NC_021166.1	Ca_Kabuli_Chr07	41167913	AA	CC	CC	INTERGENIC			
SNP_57563_A_41167934	NC_021166.1	Ca_Kabuli_Chr07	41167934	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57564_A_41167952	NC_021166.1	Ca_Kabuli_Chr07	41167952	AA	GG	GG	INTERGENIC			
SNP_57565_A_41167970	NC_021166.1	Ca_Kabuli_Chr07	41167970	CC	AA	AA	INTERGENIC			
SNP_57566_A_41168205	NC_021166.1	Ca_Kabuli_Chr07	41168205	AA	GG	GG	INTERGENIC			
SNP_57567_A_41168230	NC_021166.1	Ca_Kabuli_Chr07	41168230	AA	CC	CC	INTERGENIC			
SNP_57568_A_41168269	NC_021166.1	Ca_Kabuli_Chr07	41168269	GG	TT	TT	INTERGENIC			
SNP_57569_A_41168333	NC_021166.1	Ca_Kabuli_Chr07	41168333	TT	AA	AA	INTERGENIC			
SNP_57571_A_41170116	NC_021166.1	Ca_Kabuli_Chr07	41170116	TT	CC	CC	INTERGENIC			
SNP_57572_A_41170121	NC_021166.1	Ca_Kabuli_Chr07	41170121	TT	AA	AA	INTERGENIC			
SNP_57573_A_41170143	NC_021166.1	Ca_Kabuli_Chr07	41170143	AA	GG	GG	INTERGENIC			
SNP_57574_A_41170275	NC_021166.1	Ca_Kabuli_Chr07	41170275	CC	GG	GG	INTERGENIC			
SNP_57575_A_41170311	NC_021166.1	Ca_Kabuli_Chr07	41170311	CC	AA	AA	INTERGENIC			
SNP_57576_A_41170466	NC_021166.1	Ca_Kabuli_Chr07	41170466	AA	TT	TT	INTERGENIC			
SNP_57577_A_41184882	NC_021166.1	Ca_Kabuli_Chr07	41184882	CC	TT	TT	INTERGENIC			
SNP_57578_A_41200763	NC_021166.1	Ca_Kabuli_Chr07	41200763	TT	AA	AA	INTERGENIC			
SNP_57579_A_41215435	NC_021166.1	Ca_Kabuli_Chr07	41215435	AA	CC	CC	INTRON	101499124		bidirectional sugar transporter SWEET2-like
SNP_57580_A_41215657	NC_021166.1	Ca_Kabuli_Chr07	41215657	GG	CC	CC	INTRON	101499124		bidirectional sugar transporter SWEET2-like
SNP_57582_A_41239000	NC_021166.1	Ca_Kabuli_Chr07	41239000	GG	TT	TT	INTERGENIC			
SNP_57583_A_41239055	NC_021166.1	Ca_Kabuli_Chr07	41239055	AA	CC	CC	INTERGENIC			
SNP_57584_A_41239078	NC_021166.1	Ca_Kabuli_Chr07	41239078	CC	TT	TT	INTERGENIC			
SNP_57585_A_41239084	NC_021166.1	Ca_Kabuli_Chr07	41239084	TT	CC	CC	INTERGENIC			
SNP_57586_A_41239241	NC_021166.1	Ca_Kabuli_Chr07	41239241	AA	GG	GG	INTERGENIC			
SNP_57587_A_41239244	NC_021166.1	Ca_Kabuli_Chr07	41239244	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57588_A_41239248	NC_021166.1	Ca_Kabuli_Chr07	41239248	TT	CC	CC	INTERGENIC			
SNP_57589_A_41239292	NC_021166.1	Ca_Kabuli_Chr07	41239292	AA	GG	GG	INTERGENIC			
SNP_57590_A_41239315	NC_021166.1	Ca_Kabuli_Chr07	41239315	TT	AA	AA	INTERGENIC			
SNP_57591_A_41239326	NC_021166.1	Ca_Kabuli_Chr07	41239326	TT	CC	CC	INTERGENIC			
SNP_57592_A_41239344	NC_021166.1	Ca_Kabuli_Chr07	41239344	TT	CC	CC	INTERGENIC			
SNP_57593_A_41240993	NC_021166.1	Ca_Kabuli_Chr07	41240993	CC	TT	TT	INTERGENIC			
SNP_57594_A_41241020	NC_021166.1	Ca_Kabuli_Chr07	41241020	GG	TT	TT	INTERGENIC			
SNP_57595_A_41241021	NC_021166.1	Ca_Kabuli_Chr07	41241021	TT	GG	GG	INTERGENIC			
SNP_57596_A_41241032	NC_021166.1	Ca_Kabuli_Chr07	41241032	GG	AA	AA	INTERGENIC			
SNP_57597_A_41241233	NC_021166.1	Ca_Kabuli_Chr07	41241233	AA	CC	CC	INTERGENIC			
SNP_57598_A_41241239	NC_021166.1	Ca_Kabuli_Chr07	41241239	TT	GG	GG	INTERGENIC			
SNP_57599_A_41241255	NC_021166.1	Ca_Kabuli_Chr07	41241255	AA	GG	GG	INTERGENIC			
SNP_57600_A_41241260	NC_021166.1	Ca_Kabuli_Chr07	41241260	AA	CC	CC	INTERGENIC			
SNP_57601_A_41241310	NC_021166.1	Ca_Kabuli_Chr07	41241310	AA	TT	TT	INTERGENIC			
SNP_57603_A_41250653	NC_021166.1	Ca_Kabuli_Chr07	41250653	AA	GG	GG	INTERGENIC			
SNP_57604_A_41250667	NC_021166.1	Ca_Kabuli_Chr07	41250667	CC	TT	TT	INTERGENIC			
SNP_57605_A_41250827	NC_021166.1	Ca_Kabuli_Chr07	41250827	GG	AA	AA	INTERGENIC			
SNP_57606_A_41250850	NC_021166.1	Ca_Kabuli_Chr07	41250850	AA	TT	TT	INTERGENIC			
SNP_57607_A_41250852	NC_021166.1	Ca_Kabuli_Chr07	41250852	TT	AA	AA	INTERGENIC			
SNP_57608_A_41250856	NC_021166.1	Ca_Kabuli_Chr07	41250856	AA	CC	CC	INTERGENIC			
SNP_57610_A_41250944	NC_021166.1	Ca_Kabuli_Chr07	41250944	TT	CC	CC	INTERGENIC			
SNP_57611_A_41250968	NC_021166.1	Ca_Kabuli_Chr07	41250968	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57612_A_41251003	NC_021166.1	Ca_Kabuli_Chr07	41251003	GG	TT	TT	INTERGENIC			
SNP_57613_A_41251009	NC_021166.1	Ca_Kabuli_Chr07	41251009	CC	GG	GG	INTERGENIC			
SNP_57614_A_41251026	NC_021166.1	Ca_Kabuli_Chr07	41251026	GG	AA	AA	INTERGENIC			
SNP_57615_A_41251044	NC_021166.1	Ca_Kabuli_Chr07	41251044	AA	TT	TT	INTERGENIC			
SNP_57616_A_41251119	NC_021166.1	Ca_Kabuli_Chr07	41251119	GG	AA	AA	INTERGENIC			
SNP_57617_A_41251125	NC_021166.1	Ca_Kabuli_Chr07	41251125	TT	AA	AA	INTERGENIC			
SNP_57618_A_41251132	NC_021166.1	Ca_Kabuli_Chr07	41251132	GG	CC	CC	INTERGENIC			
SNP_57619_A_41251146	NC_021166.1	Ca_Kabuli_Chr07	41251146	GG	AA	AA	INTERGENIC			
SNP_57620_A_41251151	NC_021166.1	Ca_Kabuli_Chr07	41251151	CC	GG	GG	INTERGENIC			
SNP_57621_A_41251237	NC_021166.1	Ca_Kabuli_Chr07	41251237	AA	TT	TT	INTERGENIC			
SNP_57622_A_41251242	NC_021166.1	Ca_Kabuli_Chr07	41251242	CC	TT	TT	INTERGENIC			
SNP_57624_A_41251296	NC_021166.1	Ca_Kabuli_Chr07	41251296	CC	AA	AA	INTERGENIC			
SNP_57625_A_41251325	NC_021166.1	Ca_Kabuli_Chr07	41251325	AA	GG	GG	INTERGENIC			
SNP_57626_A_41251349	NC_021166.1	Ca_Kabuli_Chr07	41251349	CC	AA	AA	INTERGENIC			
SNP_57627_A_41251402	NC_021166.1	Ca_Kabuli_Chr07	41251402	TT	CC	CC	INTERGENIC			
SNP_57628_A_41251406	NC_021166.1	Ca_Kabuli_Chr07	41251406	TT	GG	GG	INTERGENIC			
SNP_57629_A_41251418	NC_021166.1	Ca_Kabuli_Chr07	41251418	CC	GG	GG	INTERGENIC			
SNP_57630_A_41251476	NC_021166.1	Ca_Kabuli_Chr07	41251476	CC	TT	TT	INTERGENIC			
SNP_57631_A_41251594	NC_021166.1	Ca_Kabuli_Chr07	41251594	AA	GG	GG	INTERGENIC			
SNP_57632_A_41251673	NC_021166.1	Ca_Kabuli_Chr07	41251673	AA	GG	GG	INTERGENIC			
SNP_57633_A_41251684	NC_021166.1	Ca_Kabuli_Chr07	41251684	GG	AA	AA	INTERGENIC			
SNP_57634_A_41251756	NC_021166.1	Ca_Kabuli_Chr07	41251756	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57635_A_41251801	NC_021166.1	Ca_Kabuli_Chr07	41251801	GG	TT	TT	INTERGENIC			
SNP_57636_A_41251829	NC_021166.1	Ca_Kabuli_Chr07	41251829	TT	GG	GG	INTERGENIC			
SNP_57637_A_41251889	NC_021166.1	Ca_Kabuli_Chr07	41251889	TT	CC	CC	INTERGENIC			
SNP_57638_A_41251938	NC_021166.1	Ca_Kabuli_Chr07	41251938	GG	AA	AA	INTERGENIC			
SNP_57639_A_41251987	NC_021166.1	Ca_Kabuli_Chr07	41251987	CC	TT	TT	INTERGENIC			
SNP_57640_A_41252030	NC_021166.1	Ca_Kabuli_Chr07	41252030	CC	GG	GG	INTERGENIC			
SNP_57641_A_41252046	NC_021166.1	Ca_Kabuli_Chr07	41252046	TT	CC	CC	INTERGENIC			
SNP_57642_A_41252052	NC_021166.1	Ca_Kabuli_Chr07	41252052	GG	AA	AA	INTERGENIC			
SNP_57643_A_41252113	NC_021166.1	Ca_Kabuli_Chr07	41252113	GG	CC	CC	INTERGENIC			
SNP_57644_A_41252136	NC_021166.1	Ca_Kabuli_Chr07	41252136	CC	TT	TT	INTERGENIC			
SNP_57645_A_41252138	NC_021166.1	Ca_Kabuli_Chr07	41252138	CC	TT	TT	INTERGENIC			
SNP_57646_A_41252185	NC_021166.1	Ca_Kabuli_Chr07	41252185	AA	CC	CC	INTERGENIC			
SNP_57647_A_41252210	NC_021166.1	Ca_Kabuli_Chr07	41252210	TT	CC	CC	INTERGENIC			
SNP_57648_A_41252221	NC_021166.1	Ca_Kabuli_Chr07	41252221	TT	GG	GG	INTERGENIC			
SNP_57649_A_41252242	NC_021166.1	Ca_Kabuli_Chr07	41252242	CC	TT	TT	INTERGENIC			
SNP_57650_A_41252245	NC_021166.1	Ca_Kabuli_Chr07	41252245	GG	AA	AA	INTERGENIC			
SNP_57652_A_41252369	NC_021166.1	Ca_Kabuli_Chr07	41252369	CC	TT	TT	INTERGENIC			
SNP_57653_A_41252375	NC_021166.1	Ca_Kabuli_Chr07	41252375	TT	CC	CC	INTERGENIC			
SNP_57654_A_41252388	NC_021166.1	Ca_Kabuli_Chr07	41252388	CC	TT	TT	INTERGENIC			
SNP_57655_A_41282565	NC_021166.1	Ca_Kabuli_Chr07	41282565	AA	CC	CC	INTERGENIC			
SNP_57656_A_41282755	NC_021166.1	Ca_Kabuli_Chr07	41282755	GG	AA	AA	INTERGENIC			
SNP_57657_A_41282889	NC_021166.1	Ca_Kabuli_Chr07	41282889	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57658_A_41282937	NC_021166.1	Ca_Kabuli_Chr07	41282937	TT	GG	GG	INTERGENIC		
SNP_57659_A_41282942	NC_021166.1	Ca_Kabuli_Chr07	41282942	TT	CC	CC	INTERGENIC		
SNP_57661_A_41284434	NC_021166.1	Ca_Kabuli_Chr07	41284434	TT	AA	AA	INTERGENIC		
SNP_57662_A_41309461	NC_021166.1	Ca_Kabuli_Chr07	41309461	TT	CC	CC	INTERGENIC		
SNP_57663_A_41315077	NC_021166.1	Ca_Kabuli_Chr07	41315077	CC	AA	AA	INTERGENIC		
SNP_57664_A_41322197	NC_021166.1	Ca_Kabuli_Chr07	41322197	GG	AA	AA	INTERGENIC		
SNP_57665_A_41322221	NC_021166.1	Ca_Kabuli_Chr07	41322221	GG	AA	AA	INTERGENIC		
SNP_57666_A_41322572	NC_021166.1	Ca_Kabuli_Chr07	41322572	TT	CC	CC	INTERGENIC		
SNP_57667_A_41323041	NC_021166.1	Ca_Kabuli_Chr07	41323041	CC	TT	TT	INTERGENIC		
SNP_57668_A_41323058	NC_021166.1	Ca_Kabuli_Chr07	41323058	CC	TT	TT	INTERGENIC		
SNP_57669_A_41325509	NC_021166.1	Ca_Kabuli_Chr07	41325509	TT	AA	AA	NON_SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57670_A_41325519	NC_021166.1	Ca_Kabuli_Chr07	41325519	TT	GG	GG	NON_SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57671_A_41325523	NC_021166.1	Ca_Kabuli_Chr07	41325523	AA	GG	GG	SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57672_A_41325526	NC_021166.1	Ca_Kabuli_Chr07	41325526	GG	TT	TT	SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57673_A_41325814	NC_021166.1	Ca_Kabuli_Chr07	41325814	CC	TT	TT	SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57674_A_41325829	NC_021166.1	Ca_Kabuli_Chr07	41325829	AA	GG	GG	SYNONYMOUS_CODING	101499750	uridine 5'-monophosphate synthase-like
SNP_57675_A_41347597	NC_021166.1	Ca_Kabuli_Chr07	41347597	GG	AA	AA	INTERGENIC		
SNP_57676_A_41371831	NC_021166.1	Ca_Kabuli_Chr07	41371831	CC	TT	TT	URR	101513553	uncharacterized LOC101513553
SNP_57677_A_41411210	NC_021166.1	Ca_Kabuli_Chr07	41411210	CC	TT	TT	INTERGENIC		
SNP_57678_A_41427942	NC_021166.1	Ca_Kabuli_Chr07	41427942	TT	GG	GG	INTERGENIC		
SNP_57679_A_41427963	NC_021166.1	Ca_Kabuli_Chr07	41427963	AA	GG	GG	INTERGENIC		
SNP_57680_A_41428121	NC_021166.1	Ca_Kabuli_Chr07	41428121	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57681_A_41428146	NC_021166.1	Ca_Kabuli_Chr07	41428146	GG	TT	TT	INTERGENIC		
SNP_57682_A_41428801	NC_021166.1	Ca_Kabuli_Chr07	41428801	AA	GG	GG	INTERGENIC		
SNP_57684_A_41464352	NC_021166.1	Ca_Kabuli_Chr07	41464352	TT	AA	AA	INTRON	101500704	Unknown function
SNP_57686_A_41498663	NC_021166.1	Ca_Kabuli_Chr07	41498663	TT	GG	GG	INTERGENIC		
SNP_57688_A_41571998	NC_021166.1	Ca_Kabuli_Chr07	41571998	TT	AA	AA	INTERGENIC		
SNP_57689_A_41580381	NC_021166.1	Ca_Kabuli_Chr07	41580381	AA	CC	CC	INTERGENIC		
SNP_57690_A_41598499	NC_021166.1	Ca_Kabuli_Chr07	41598499	TT	CC	CC	INTERGENIC		
SNP_57691_A_41612299	NC_021166.1	Ca_Kabuli_Chr07	41612299	TT	GG	GG	INTERGENIC		
SNP_57692_A_41612673	NC_021166.1	Ca_Kabuli_Chr07	41612673	TT	AA	AA	INTERGENIC		
SNP_57693_A_41615011	NC_021166.1	Ca_Kabuli_Chr07	41615011	CC	TT	TT	INTERGENIC		
SNP_57694_A_41693628	NC_021166.1	Ca_Kabuli_Chr07	41693628	AA	GG	GG	INTERGENIC		
SNP_57695_A_41731883	NC_021166.1	Ca_Kabuli_Chr07	41731883	CC	TT	TT	INTERGENIC		
SNP_57696_A_41766315	NC_021166.1	Ca_Kabuli_Chr07	41766315	GG	AA	AA	INTERGENIC		
SNP_57697_A_41786185	NC_021166.1	Ca_Kabuli_Chr07	41786185	CC	TT	TT	INTERGENIC		
SNP_57698_A_41794675	NC_021166.1	Ca_Kabuli_Chr07	41794675	CC	TT	TT	INTERGENIC		
SNP_57699_A_41794891	NC_021166.1	Ca_Kabuli_Chr07	41794891	GG	AA	AA	INTERGENIC		
SNP_57700_A_41806348	NC_021166.1	Ca_Kabuli_Chr07	41806348	CC	TT	TT	INTERGENIC		
SNP_57701_A_41841867	NC_021166.1	Ca_Kabuli_Chr07	41841867	CC	TT	TT	URR	101501966	Unknown function
SNP_57702_A_41898593	NC_021166.1	Ca_Kabuli_Chr07	41898593	CC	AA	AA	INTERGENIC		
SNP_57703_A_41911297	NC_021166.1	Ca_Kabuli_Chr07	41911297	AA	GG	GG	INTERGENIC		
SNP_57704_A_41928444	NC_021166.1	Ca_Kabuli_Chr07	41928444	GG	TT	TT	INTERGENIC		
SNP_57705_A_41932623	NC_021166.1	Ca_Kabuli_Chr07	41932623	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57706_A_41948621	NC_021166.1	Ca_Kabuli_Chr07	41948621	AA	GG	GG	INTERGENIC		
SNP_57707_A_41994380	NC_021166.1	Ca_Kabuli_Chr07	41994380	AA	CC	CC	URR	101492387	mitochondrial inner membrane protease subunit 1-like
SNP_57708_A_41994381	NC_021166.1	Ca_Kabuli_Chr07	41994381	AA	CC	CC	URR	101492387	mitochondrial inner membrane protease subunit 1-like
SNP_57709_A_42066790	NC_021166.1	Ca_Kabuli_Chr07	42066790	CC	TT	TT	INTERGENIC		
SNP_57711_A_42092700	NC_021166.1	Ca_Kabuli_Chr07	42092700	CC	TT	TT	INTERGENIC		
SNP_57712_A_42092701	NC_021166.1	Ca_Kabuli_Chr07	42092701	AA	GG	GG	INTERGENIC		
SNP_57713_A_42092708	NC_021166.1	Ca_Kabuli_Chr07	42092708	CC	TT	TT	INTERGENIC		
SNP_57714_A_42092733	NC_021166.1	Ca_Kabuli_Chr07	42092733	AA	CC	CC	INTERGENIC		
SNP_57715_A_42093029	NC_021166.1	Ca_Kabuli_Chr07	42093029	CC	GG	GG	INTERGENIC		
SNP_57716_A_42093639	NC_021166.1	Ca_Kabuli_Chr07	42093639	CC	GG	GG	INTERGENIC		
SNP_57717_A_42093677	NC_021166.1	Ca_Kabuli_Chr07	42093677	GG	CC	CC	INTERGENIC		
SNP_57718_A_42093679	NC_021166.1	Ca_Kabuli_Chr07	42093679	GG	CC	CC	INTERGENIC		
SNP_57719_A_42241851	NC_021166.1	Ca_Kabuli_Chr07	42241851	TT	GG	GG	URR	101495396	3'-5' exoribonuclease 1-like
SNP_57720_A_42307691	NC_021166.1	Ca_Kabuli_Chr07	42307691	TT	GG	GG	INTERGENIC		
SNP_57721_A_42307801	NC_021166.1	Ca_Kabuli_Chr07	42307801	TT	CC	CC	INTERGENIC		
SNP_57722_A_42352144	NC_021166.1	Ca_Kabuli_Chr07	42352144	CC	GG	GG	INTERGENIC		
SNP_57723_A_42352201	NC_021166.1	Ca_Kabuli_Chr07	42352201	AA	CC	CC	INTERGENIC		
SNP_57724_A_42356367	NC_021166.1	Ca_Kabuli_Chr07	42356367	AA	GG	GG	INTERGENIC		
SNP_57725_A_42356374	NC_021166.1	Ca_Kabuli_Chr07	42356374	AA	GG	GG	INTERGENIC		
SNP_57726_A_42356413	NC_021166.1	Ca_Kabuli_Chr07	42356413	GG	CC	CC	INTERGENIC		
SNP_57727_A_42356427	NC_021166.1	Ca_Kabuli_Chr07	42356427	GG	TT	TT	INTERGENIC		
SNP_57728_A_42356705	NC_021166.1	Ca_Kabuli_Chr07	42356705	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57729_A_42356758	NC_021166.1	Ca_Kabuli_Chr07	42356758	CC	TT	TT	INTERGENIC		
SNP_57730_A_42357046	NC_021166.1	Ca_Kabuli_Chr07	42357046	AA	GG	GG	INTERGENIC		
SNP_57731_A_42357055	NC_021166.1	Ca_Kabuli_Chr07	42357055	GG	AA	AA	INTERGENIC		
SNP_57732_A_42357087	NC_021166.1	Ca_Kabuli_Chr07	42357087	GG	AA	AA	INTERGENIC		
SNP_57733_A_42358193	NC_021166.1	Ca_Kabuli_Chr07	42358193	TT	GG	GG	INTERGENIC		
SNP_57734_A_42358220	NC_021166.1	Ca_Kabuli_Chr07	42358220	GG	TT	TT	INTERGENIC		
SNP_57735_A_42358280	NC_021166.1	Ca_Kabuli_Chr07	42358280	AA	GG	GG	INTERGENIC		
SNP_57737_A_42358593	NC_021166.1	Ca_Kabuli_Chr07	42358593	GG	AA	AA	INTERGENIC		
SNP_57738_A_42363897	NC_021166.1	Ca_Kabuli_Chr07	42363897	AA	GG	GG	INTERGENIC		
SNP_57740_A_42381889	NC_021166.1	Ca_Kabuli_Chr07	42381889	AA	GG	GG	INTRON	101505500	uncharacterized LOC101505500
SNP_57741_A_42384580	NC_021166.1	Ca_Kabuli_Chr07	42384580	TT	CC	CC	INTRON	101505500	uncharacterized LOC101505500
SNP_57742_A_42384635	NC_021166.1	Ca_Kabuli_Chr07	42384635	TT	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57743_A_42385007	NC_021166.1	Ca_Kabuli_Chr07	42385007	CC	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57744_A_42392104	NC_021166.1	Ca_Kabuli_Chr07	42392104	GG	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57745_A_42392870	NC_021166.1	Ca_Kabuli_Chr07	42392870	TT	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57746_A_42392972	NC_021166.1	Ca_Kabuli_Chr07	42392972	GG	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57747_A_42393054	NC_021166.1	Ca_Kabuli_Chr07	42393054	TT	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57748_A_42393064	NC_021166.1	Ca_Kabuli_Chr07	42393064	GG	TT	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57750_A_42393069	NC_021166.1	Ca_Kabuli_Chr07	42393069	TT	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57751_A_42393080	NC_021166.1	Ca_Kabuli_Chr07	42393080	GG	TT	TT	INTRON	101505500	uncharacterized LOC101505500
SNP_57752_A_42393111	NC_021166.1	Ca_Kabuli_Chr07	42393111	TT	CC	CC	INTRON	101505500	uncharacterized LOC101505500
SNP_57753_A_42393133	NC_021166.1	Ca_Kabuli_Chr07	42393133	GG	AA	AA	INTRON	101505500	uncharacterized LOC101505500

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57754_A_42393162	NC_021166.1	Ca_Kabuli_Chr07	42393162	TT	AA	AA	INTRON	101505500	uncharacterized LOC101505500
SNP_57755_A_42396536	NC_021166.1	Ca_Kabuli_Chr07	42396536	CC	TT	TT	INTRON	101505500	uncharacterized LOC101505500
SNP_57756_A_42396945	NC_021166.1	Ca_Kabuli_Chr07	42396945	TT	GG	GG	INTRON	101505500	uncharacterized LOC101505500
SNP_57757_A_42397094	NC_021166.1	Ca_Kabuli_Chr07	42397094	AA	TT	TT	INTRON	101505500	uncharacterized LOC101505500
SNP_57758_A_42397108	NC_021166.1	Ca_Kabuli_Chr07	42397108	TT	CC	CC	INTRON	101505500	uncharacterized LOC101505500
SNP_57759_A_42399227	NC_021166.1	Ca_Kabuli_Chr07	42399227	GG	AA	AA	URR	101505500	uncharacterized LOC101505500
SNP_57760_A_42399249	NC_021166.1	Ca_Kabuli_Chr07	42399249	GG	AA	AA	URR	101505500	uncharacterized LOC101505500
SNP_57761_A_42403924	NC_021166.1	Ca_Kabuli_Chr07	42403924	GG	CC	CC	INTERGENIC		
SNP_57762_A_42405405	NC_021166.1	Ca_Kabuli_Chr07	42405405	TT	CC	CC	INTERGENIC		
SNP_57763_A_42405942	NC_021166.1	Ca_Kabuli_Chr07	42405942	GG	TT	TT	INTERGENIC		
SNP_57764_A_42405951	NC_021166.1	Ca_Kabuli_Chr07	42405951	TT	AA	AA	INTERGENIC		
SNP_57765_A_42406256	NC_021166.1	Ca_Kabuli_Chr07	42406256	TT	CC	CC	INTERGENIC		
SNP_57766_A_42406275	NC_021166.1	Ca_Kabuli_Chr07	42406275	CC	GG	GG	INTERGENIC		
SNP_57767_A_42406319	NC_021166.1	Ca_Kabuli_Chr07	42406319	TT	CC	CC	INTERGENIC		
SNP_57768_A_42410067	NC_021166.1	Ca_Kabuli_Chr07	42410067	TT	CC	CC	INTERGENIC		
SNP_57769_A_42410667	NC_021166.1	Ca_Kabuli_Chr07	42410667	TT	CC	CC	INTERGENIC		
SNP_57770_A_42421444	NC_021166.1	Ca_Kabuli_Chr07	42421444	TT	CC	CC	INTERGENIC		
SNP_57771_A_42421455	NC_021166.1	Ca_Kabuli_Chr07	42421455	CC	TT	TT	INTERGENIC		
SNP_57772_A_42427206	NC_021166.1	Ca_Kabuli_Chr07	42427206	GG	AA	AA	INTERGENIC		
SNP_57773_A_42458446	NC_021166.1	Ca_Kabuli_Chr07	42458446	AA	GG	GG	INTERGENIC		
SNP_57774_A_42458449	NC_021166.1	Ca_Kabuli_Chr07	42458449	TT	CC	CC	INTERGENIC		
SNP_57775_A_42458450	NC_021166.1	Ca_Kabuli_Chr07	42458450	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57776_A_42458457	NC_021166.1	Ca_Kabuli_Chr07	42458457	TT	CC	CC	INTERGENIC		
SNP_57778_A_42458486	NC_021166.1	Ca_Kabuli_Chr07	42458486	AA	GG	GG	INTERGENIC		
SNP_57779_A_42459735	NC_021166.1	Ca_Kabuli_Chr07	42459735	TT	GG	GG	INTERGENIC		
SNP_57780_A_42459736	NC_021166.1	Ca_Kabuli_Chr07	42459736	AA	GG	GG	INTERGENIC		
SNP_57781_A_42459762	NC_021166.1	Ca_Kabuli_Chr07	42459762	AA	GG	GG	INTERGENIC		
SNP_57782_A_42459775	NC_021166.1	Ca_Kabuli_Chr07	42459775	TT	AA	AA	INTERGENIC		
SNP_57783_A_42459781	NC_021166.1	Ca_Kabuli_Chr07	42459781	GG	AA	AA	INTERGENIC		
SNP_57785_A_42461292	NC_021166.1	Ca_Kabuli_Chr07	42461292	TT	CC	CC	INTERGENIC		
SNP_57786_A_42461293	NC_021166.1	Ca_Kabuli_Chr07	42461293	GG	AA	AA	INTERGENIC		
SNP_57787_A_42461748	NC_021166.1	Ca_Kabuli_Chr07	42461748	CC	GG	GG	INTERGENIC		
SNP_57788_A_42472710	NC_021166.1	Ca_Kabuli_Chr07	42472710	AA	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57789_A_42472711	NC_021166.1	Ca_Kabuli_Chr07	42472711	TT	CC	CC	DRR	101514529	heme-binding protein 2-like
SNP_57790_A_42472712	NC_021166.1	Ca_Kabuli_Chr07	42472712	AA	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57791_A_42472713	NC_021166.1	Ca_Kabuli_Chr07	42472713	AA	GG	GG	DRR	101514529	heme-binding protein 2-like
SNP_57792_A_42472715	NC_021166.1	Ca_Kabuli_Chr07	42472715	CC	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57793_A_42472716	NC_021166.1	Ca_Kabuli_Chr07	42472716	AA	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57794_A_42472717	NC_021166.1	Ca_Kabuli_Chr07	42472717	AA	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57795_A_42472718	NC_021166.1	Ca_Kabuli_Chr07	42472718	AA	CC	CC	DRR	101514529	heme-binding protein 2-like
SNP_57796_A_42472724	NC_021166.1	Ca_Kabuli_Chr07	42472724	AA	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57797_A_42472808	NC_021166.1	Ca_Kabuli_Chr07	42472808	GG	TT	TT	DRR	101514529	heme-binding protein 2-like
SNP_57798_A_42472964	NC_021166.1	Ca_Kabuli_Chr07	42472964	TT	CC	CC	DRR	101514529	heme-binding protein 2-like
SNP_57799_A_42473191	NC_021166.1	Ca_Kabuli_Chr07	42473191	TT	GG	GG	DRR	101514529	heme-binding protein 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57800_A_42473442	NC_021166.1	Ca_Kabuli_Chr07	42473442	TT	CC	CC	STOP_LOST	101514529	heme-binding protein 2-like
SNP_57801_A_42473528	NC_021166.1	Ca_Kabuli_Chr07	42473528	TT	GG	GG	INTRON	101514529	heme-binding protein 2-like
SNP_57802_A_42473536	NC_021166.1	Ca_Kabuli_Chr07	42473536	TT	CC	CC	INTRON	101514529	heme-binding protein 2-like
SNP_57803_A_42473568	NC_021166.1	Ca_Kabuli_Chr07	42473568	GG	TT	TT	INTRON	101514529	heme-binding protein 2-like
SNP_57804_A_42473602	NC_021166.1	Ca_Kabuli_Chr07	42473602	CC	GG	GG	INTRON	101514529	heme-binding protein 2-like
SNP_57805_A_42473776	NC_021166.1	Ca_Kabuli_Chr07	42473776	TT	CC	CC	INTRON	101514529	heme-binding protein 2-like
SNP_57806_A_42473864	NC_021166.1	Ca_Kabuli_Chr07	42473864	CC	TT	TT	INTRON	101514529	heme-binding protein 2-like
SNP_57807_A_42473865	NC_021166.1	Ca_Kabuli_Chr07	42473865	AA	GG	GG	INTRON	101514529	heme-binding protein 2-like
SNP_57808_A_42474661	NC_021166.1	Ca_Kabuli_Chr07	42474661	GG	CC	CC	URR	101514529	heme-binding protein 2-like
SNP_57809_A_42474701	NC_021166.1	Ca_Kabuli_Chr07	42474701	CC	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57810_A_42474939	NC_021166.1	Ca_Kabuli_Chr07	42474939	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57811_A_42474957	NC_021166.1	Ca_Kabuli_Chr07	42474957	AA	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57812_A_42474960	NC_021166.1	Ca_Kabuli_Chr07	42474960	AA	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57813_A_42475009	NC_021166.1	Ca_Kabuli_Chr07	42475009	AA	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57814_A_42475018	NC_021166.1	Ca_Kabuli_Chr07	42475018	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57815_A_42475246	NC_021166.1	Ca_Kabuli_Chr07	42475246	TT	CC	CC	URR	101514529	heme-binding protein 2-like
SNP_57816_A_42475278	NC_021166.1	Ca_Kabuli_Chr07	42475278	TT	CC	CC	URR	101514529	heme-binding protein 2-like
SNP_57817_A_42475390	NC_021166.1	Ca_Kabuli_Chr07	42475390	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57818_A_42475537	NC_021166.1	Ca_Kabuli_Chr07	42475537	CC	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57819_A_42475571	NC_021166.1	Ca_Kabuli_Chr07	42475571	CC	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57820_A_42475693	NC_021166.1	Ca_Kabuli_Chr07	42475693	AA	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57821_A_42475738	NC_021166.1	Ca_Kabuli_Chr07	42475738	GG	TT	TT	URR	101514529	heme-binding protein 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57822_A_42475747	NC_021166.1	Ca_Kabuli_Chr07	42475747	TT	CC	CC	URR	101514529	heme-binding protein 2-like
SNP_57823_A_42475750	NC_021166.1	Ca_Kabuli_Chr07	42475750	TT	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57824_A_42475773	NC_021166.1	Ca_Kabuli_Chr07	42475773	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57825_A_42475776	NC_021166.1	Ca_Kabuli_Chr07	42475776	CC	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57826_A_42475824	NC_021166.1	Ca_Kabuli_Chr07	42475824	AA	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57827_A_42475831	NC_021166.1	Ca_Kabuli_Chr07	42475831	GG	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57828_A_42475832	NC_021166.1	Ca_Kabuli_Chr07	42475832	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57829_A_42475863	NC_021166.1	Ca_Kabuli_Chr07	42475863	CC	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57830_A_42475889	NC_021166.1	Ca_Kabuli_Chr07	42475889	CC	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57831_A_42475891	NC_021166.1	Ca_Kabuli_Chr07	42475891	AA	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57832_A_42475934	NC_021166.1	Ca_Kabuli_Chr07	42475934	CC	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57833_A_42475975	NC_021166.1	Ca_Kabuli_Chr07	42475975	CC	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57834_A_42475988	NC_021166.1	Ca_Kabuli_Chr07	42475988	GG	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57835_A_42476051	NC_021166.1	Ca_Kabuli_Chr07	42476051	TT	GG	GG	URR	101514529	heme-binding protein 2-like
SNP_57836_A_42476153	NC_021166.1	Ca_Kabuli_Chr07	42476153	CC	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57837_A_42476155	NC_021166.1	Ca_Kabuli_Chr07	42476155	GG	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57838_A_42476198	NC_021166.1	Ca_Kabuli_Chr07	42476198	CC	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57839_A_42476201	NC_021166.1	Ca_Kabuli_Chr07	42476201	GG	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57840_A_42476217	NC_021166.1	Ca_Kabuli_Chr07	42476217	CC	TT	TT	URR	101514529	heme-binding protein 2-like
SNP_57841_A_42476252	NC_021166.1	Ca_Kabuli_Chr07	42476252	GG	CC	CC	URR	101514529	heme-binding protein 2-like
SNP_57842_A_42476319	NC_021166.1	Ca_Kabuli_Chr07	42476319	TT	AA	AA	URR	101514529	heme-binding protein 2-like
SNP_57844_A_42497070	NC_021166.1	Ca_Kabuli_Chr07	42497070	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57845_A_42497723	NC_021166.1	Ca_Kabuli_Chr07	42497723	GG	AA	AA	INTERGENIC		
SNP_57846_A_42507316	NC_021166.1	Ca_Kabuli_Chr07	42507316	TT	AA	AA	INTERGENIC		
SNP_57847_A_42514540	NC_021166.1	Ca_Kabuli_Chr07	42514540	GG	AA	AA	INTERGENIC		
SNP_57848_A_42515992	NC_021166.1	Ca_Kabuli_Chr07	42515992	CC	TT	TT	INTERGENIC		
SNP_57849_A_42529134	NC_021166.1	Ca_Kabuli_Chr07	42529134	TT	AA	AA	INTRON	101506481	heme-binding protein 2-like
SNP_57850_A_42541323	NC_021166.1	Ca_Kabuli_Chr07	42541323	AA	GG	GG	INTERGENIC		
SNP_57851_A_42541332	NC_021166.1	Ca_Kabuli_Chr07	42541332	AA	TT	TT	INTERGENIC		
SNP_57852_A_42541333	NC_021166.1	Ca_Kabuli_Chr07	42541333	TT	GG	GG	INTERGENIC		
SNP_57853_A_42541372	NC_021166.1	Ca_Kabuli_Chr07	42541372	AA	GG	GG	INTERGENIC		
SNP_57854_A_42568322	NC_021166.1	Ca_Kabuli_Chr07	42568322	GG	TT	TT	INTERGENIC		
SNP_57857_A_42583234	NC_021166.1	Ca_Kabuli_Chr07	42583234	CC	TT	TT	URR	101515496	uncharacterized LOC101515496
SNP_57858_A_42583237	NC_021166.1	Ca_Kabuli_Chr07	42583237	GG	CC	CC	URR	101515496	uncharacterized LOC101515496
SNP_57859_A_42589438	NC_021166.1	Ca_Kabuli_Chr07	42589438	GG	AA	AA	INTERGENIC		
SNP_57860_A_42589454	NC_021166.1	Ca_Kabuli_Chr07	42589454	GG	TT	TT	INTERGENIC		
SNP_57862_A_42659920	NC_021166.1	Ca_Kabuli_Chr07	42659920	AA	CC	CC	INTERGENIC		
SNP_57863_A_42691213	NC_021166.1	Ca_Kabuli_Chr07	42691213	TT	CC	CC	INTERGENIC		
SNP_57864_A_42716257	NC_021166.1	Ca_Kabuli_Chr07	42716257	GG	CC	CC	INTERGENIC		
SNP_57865_A_42719038	NC_021166.1	Ca_Kabuli_Chr07	42719038	GG	AA	AA	INTERGENIC		
SNP_57867_A_42738842	NC_021166.1	Ca_Kabuli_Chr07	42738842	CC	AA	AA	DRR	101489247	uncharacterized LOC101489247
SNP_57868_A_42746616	NC_021166.1	Ca_Kabuli_Chr07	42746616	TT	GG	GG	INTRON	101489570	Unknown function
SNP_57869_A_42746652	NC_021166.1	Ca_Kabuli_Chr07	42746652	GG	AA	AA	INTRON	101489570	Unknown function
SNP_57870_A_42746663	NC_021166.1	Ca_Kabuli_Chr07	42746663	GG	AA	AA	INTRON	101489570	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57871_A_42746720	NC_021166.1	Ca_Kabuli_Chr07	42746720	TT	CC	CC	NON_SYNONYMOUS_CODING	101489570	Unknown function
SNP_57872_A_42746918	NC_021166.1	Ca_Kabuli_Chr07	42746918	TT	CC	CC	INTRON	101489570	Unknown function
SNP_57873_A_42746979	NC_021166.1	Ca_Kabuli_Chr07	42746979	GG	TT	TT	INTRON	101489570	Unknown function
SNP_57874_A_42747075	NC_021166.1	Ca_Kabuli_Chr07	42747075	AA	GG	GG	NON_SYNONYMOUS_CODING	101489570	Unknown function
SNP_57875_A_42754701	NC_021166.1	Ca_Kabuli_Chr07	42754701	AA	TT	TT	INTERGENIC		
SNP_57877_A_42778677	NC_021166.1	Ca_Kabuli_Chr07	42778677	GG	AA	AA	INTERGENIC		
SNP_57878_A_42779214	NC_021166.1	Ca_Kabuli_Chr07	42779214	TT	GG	GG	INTERGENIC		
SNP_57879_A_42827002	NC_021166.1	Ca_Kabuli_Chr07	42827002	CC	TT	TT	NON_SYNONYMOUS_CODING	101491189	uncharacterized LOC101491189
SNP_57880_A_42832433	NC_021166.1	Ca_Kabuli_Chr07	42832433	CC	TT	TT	DRR	101511501	uncharacterized LOC101511501
SNP_57881_A_42832435	NC_021166.1	Ca_Kabuli_Chr07	42832435	TT	GG	GG	DRR	101511501	uncharacterized LOC101511501
SNP_57882_A_42832449	NC_021166.1	Ca_Kabuli_Chr07	42832449	GG	AA	AA	DRR	101511501	uncharacterized LOC101511501
SNP_57883_A_42832481	NC_021166.1	Ca_Kabuli_Chr07	42832481	GG	TT	TT	DRR	101511501	uncharacterized LOC101511501
SNP_57884_A_42832505	NC_021166.1	Ca_Kabuli_Chr07	42832505	AA	TT	TT	DRR	101511501	uncharacterized LOC101511501
SNP_57885_A_42832509	NC_021166.1	Ca_Kabuli_Chr07	42832509	AA	GG	GG	DRR	101511501	uncharacterized LOC101511501
SNP_57886_A_42832865	NC_021166.1	Ca_Kabuli_Chr07	42832865	AA	CC	CC	INTERGENIC		
SNP_57887_A_42832868	NC_021166.1	Ca_Kabuli_Chr07	42832868	TT	CC	CC	INTERGENIC		
SNP_57888_A_42833041	NC_021166.1	Ca_Kabuli_Chr07	42833041	CC	TT	TT	INTERGENIC		
SNP_57889_A_42833078	NC_021166.1	Ca_Kabuli_Chr07	42833078	CC	TT	TT	INTERGENIC		
SNP_57890_A_42833080	NC_021166.1	Ca_Kabuli_Chr07	42833080	TT	GG	GG	INTERGENIC		
SNP_57891_A_42833082	NC_021166.1	Ca_Kabuli_Chr07	42833082	CC	TT	TT	INTERGENIC		
SNP_57892_A_42833820	NC_021166.1	Ca_Kabuli_Chr07	42833820	GG	AA	AA	INTERGENIC		
SNP_57894_A_42848296	NC_021166.1	Ca_Kabuli_Chr07	42848296	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57895_A_42848326	NC_021166.1	Ca_Kabuli_Chr07	42848326	TT	CC	CC	INTERGENIC		
SNP_57896_A_42848536	NC_021166.1	Ca_Kabuli_Chr07	42848536	AA	TT	TT	INTERGENIC		
SNP_57897_A_42848607	NC_021166.1	Ca_Kabuli_Chr07	42848607	CC	TT	TT	INTERGENIC		
SNP_57898_A_42859485	NC_021166.1	Ca_Kabuli_Chr07	42859485	GG	AA	AA	URR	101511727	probable choline kinase 2
SNP_57899_A_42860832	NC_021166.1	Ca_Kabuli_Chr07	42860832	TT	GG	GG	URR	101511727	probable choline kinase 2
SNP_57900_A_42869738	NC_021166.1	Ca_Kabuli_Chr07	42869738	TT	CC	CC	INTERGENIC		
SNP_57901_A_42870333	NC_021166.1	Ca_Kabuli_Chr07	42870333	AA	TT	TT	INTERGENIC		
SNP_57902_A_42918632	NC_021166.1	Ca_Kabuli_Chr07	42918632	AA	GG	GG	INTERGENIC		
SNP_57903_A_42922965	NC_021166.1	Ca_Kabuli_Chr07	42922965	GG	TT	TT	INTERGENIC		
SNP_57904_A_42931056	NC_021166.1	Ca_Kabuli_Chr07	42931056	AA	TT	TT	INTERGENIC		
SNP_57905_A_42931473	NC_021166.1	Ca_Kabuli_Chr07	42931473	TT	CC	CC	INTERGENIC		
SNP_57907_A_43015969	NC_021166.1	Ca_Kabuli_Chr07	43015969	TT	CC	CC	INTERGENIC		
SNP_57908_A_43016059	NC_021166.1	Ca_Kabuli_Chr07	43016059	AA	GG	GG	INTERGENIC		
SNP_57909_A_43016076	NC_021166.1	Ca_Kabuli_Chr07	43016076	AA	GG	GG	INTERGENIC		
SNP_57910_A_43017809	NC_021166.1	Ca_Kabuli_Chr07	43017809	CC	TT	TT	INTERGENIC		
SNP_57911_A_43066342	NC_021166.1	Ca_Kabuli_Chr07	43066342	AA	TT	TT	INTERGENIC		
SNP_57912_A_43091460	NC_021166.1	Ca_Kabuli_Chr07	43091460	AA	TT	TT	INTERGENIC		
SNP_57913_A_43127676	NC_021166.1	Ca_Kabuli_Chr07	43127676	GG	TT	TT	INTERGENIC		
SNP_57914_A_43143652	NC_021166.1	Ca_Kabuli_Chr07	43143652	AA	CC	CC	INTERGENIC		
SNP_57915_A_43143658	NC_021166.1	Ca_Kabuli_Chr07	43143658	CC	TT	TT	INTERGENIC		
SNP_57916_A_43143667	NC_021166.1	Ca_Kabuli_Chr07	43143667	AA	CC	CC	INTERGENIC		
SNP_57917_A_43148335	NC_021166.1	Ca_Kabuli_Chr07	43148335	GG	AA	AA	DRR	101514206	1-aminocyclopropane-1-carboxylate oxidase homolog 11-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57918_A_43168368	NC_021166.1	Ca_Kabuli_Chr07	43168368	TT	GG	GG	INTERGENIC			
SNP_57919_A_43168988	NC_021166.1	Ca_Kabuli_Chr07	43168988	GG	CC	CC	INTERGENIC			
SNP_57920_A_43169635	NC_021166.1	Ca_Kabuli_Chr07	43169635	TT	AA	AA	INTERGENIC			
SNP_57921_A_43169653	NC_021166.1	Ca_Kabuli_Chr07	43169653	CC	AA	AA	INTERGENIC			
SNP_57922_A_43208225	NC_021166.1	Ca_Kabuli_Chr07	43208225	CC	TT	TT	INTERGENIC			
SNP_57923_A_43209690	NC_021166.1	Ca_Kabuli_Chr07	43209690	CC	TT	TT	INTERGENIC			
SNP_57924_A_43210166	NC_021166.1	Ca_Kabuli_Chr07	43210166	AA	CC	CC	INTERGENIC			
SNP_57925_A_43210597	NC_021166.1	Ca_Kabuli_Chr07	43210597	AA	GG	GG	INTERGENIC			
SNP_57926_A_43214753	NC_021166.1	Ca_Kabuli_Chr07	43214753	CC	TT	TT	INTERGENIC			
SNP_57927_A_43222543	NC_021166.1	Ca_Kabuli_Chr07	43222543	GG	AA	AA	INTERGENIC			
SNP_57928_A_43231785	NC_021166.1	Ca_Kabuli_Chr07	43231785	TT	CC	CC	INTERGENIC			
SNP_57929_A_43232295	NC_021166.1	Ca_Kabuli_Chr07	43232295	GG	AA	AA	INTERGENIC			
SNP_57930_A_43232297	NC_021166.1	Ca_Kabuli_Chr07	43232297	AA	GG	GG	INTERGENIC			
SNP_57931_A_43262230	NC_021166.1	Ca_Kabuli_Chr07	43262230	GG	CC	CC	INTERGENIC			
SNP_57932_A_43262321	NC_021166.1	Ca_Kabuli_Chr07	43262321	GG	AA	AA	INTERGENIC			
SNP_57933_A_43262335	NC_021166.1	Ca_Kabuli_Chr07	43262335	CC	TT	TT	INTERGENIC			
SNP_57934_A_43262340	NC_021166.1	Ca_Kabuli_Chr07	43262340	TT	AA	AA	INTERGENIC			
SNP_57935_A_43262351	NC_021166.1	Ca_Kabuli_Chr07	43262351	GG	TT	TT	INTERGENIC			
SNP_57936_A_43269509	NC_021166.1	Ca_Kabuli_Chr07	43269509	GG	AA	AA	INTERGENIC			
SNP_57937_A_43269599	NC_021166.1	Ca_Kabuli_Chr07	43269599	CC	AA	AA	INTERGENIC			
SNP_57938_A_43269610	NC_021166.1	Ca_Kabuli_Chr07	43269610	CC	AA	GG	INTERGENIC			
SNP_57939_A_43269655	NC_021166.1	Ca_Kabuli_Chr07	43269655	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57940_A_43290757	NC_021166.1	Ca_Kabuli_Chr07	43290757	TT	CC	CC	INTERGENIC		
SNP_57941_A_43291049	NC_021166.1	Ca_Kabuli_Chr07	43291049	TT	CC	CC	INTERGENIC		
SNP_57942_A_43311173	NC_021166.1	Ca_Kabuli_Chr07	43311173	TT	CC	CC	INTERGENIC		
SNP_57943_A_43325873	NC_021166.1	Ca_Kabuli_Chr07	43325873	TT	CC	CC	INTERGENIC		
SNP_57944_A_43333562	NC_021166.1	Ca_Kabuli_Chr07	43333562	GG	AA	AA	INTERGENIC		
SNP_57946_A_43375542	NC_021166.1	Ca_Kabuli_Chr07	43375542	TT	CC	CC	INTERGENIC		
SNP_57947_A_43375617	NC_021166.1	Ca_Kabuli_Chr07	43375617	GG	AA	AA	INTERGENIC		
SNP_57948_A_43375635	NC_021166.1	Ca_Kabuli_Chr07	43375635	CC	TT	TT	INTERGENIC		
SNP_57949_A_43383016	NC_021166.1	Ca_Kabuli_Chr07	43383016	TT	CC	CC	INTERGENIC		
SNP_57950_A_43395364	NC_021166.1	Ca_Kabuli_Chr07	43395364	CC	TT	TT	URR	101494963	UPF0481 protein At3g47200-like
SNP_57951_A_43435069	NC_021166.1	Ca_Kabuli_Chr07	43435069	AA	GG	GG	URR	101500169	uncharacterized LOC101500169
SNP_57952_A_43435124	NC_021166.1	Ca_Kabuli_Chr07	43435124	AA	GG	GG	URR	101500169	uncharacterized LOC101500169
SNP_57953_A_43435125	NC_021166.1	Ca_Kabuli_Chr07	43435125	GG	CC	CC	URR	101500169	uncharacterized LOC101500169
SNP_57954_A_43435127	NC_021166.1	Ca_Kabuli_Chr07	43435127	AA	GG	GG	URR	101500169	uncharacterized LOC101500169
SNP_57955_A_43435132	NC_021166.1	Ca_Kabuli_Chr07	43435132	AA	TT	TT	URR	101500169	uncharacterized LOC101500169
SNP_57956_A_43435139	NC_021166.1	Ca_Kabuli_Chr07	43435139	AA	GG	GG	URR	101500169	uncharacterized LOC101500169
SNP_57957_A_43448658	NC_021166.1	Ca_Kabuli_Chr07	43448658	GG	AA	AA	INTERGENIC		
SNP_57958_A_43449083	NC_021166.1	Ca_Kabuli_Chr07	43449083	CC	AA	AA	INTERGENIC		
SNP_57959_A_43449090	NC_021166.1	Ca_Kabuli_Chr07	43449090	GG	AA	AA	INTERGENIC		
SNP_57960_A_43449100	NC_021166.1	Ca_Kabuli_Chr07	43449100	CC	TT	TT	INTERGENIC		
SNP_57961_A_43469122	NC_021166.1	Ca_Kabuli_Chr07	43469122	AA	CC	CC	INTERGENIC		
SNP_57962_A_43483233	NC_021166.1	Ca_Kabuli_Chr07	43483233	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_57963_A_43485017	NC_021166.1	Ca_Kabuli_Chr07	43485017	GG	AA	AA	INTERGENIC			
SNP_57965_A_43504495	NC_021166.1	Ca_Kabuli_Chr07	43504495	CC	GG	GG	INTERGENIC			
SNP_57966_A_43504626	NC_021166.1	Ca_Kabuli_Chr07	43504626	TT	CC	CC	INTERGENIC			
SNP_57967_A_43504664	NC_021166.1	Ca_Kabuli_Chr07	43504664	AA	TT	TT	INTERGENIC			
SNP_57968_A_43504911	NC_021166.1	Ca_Kabuli_Chr07	43504911	TT	CC	CC	INTERGENIC			
SNP_57969_A_43504946	NC_021166.1	Ca_Kabuli_Chr07	43504946	AA	GG	GG	INTERGENIC			
SNP_57971_A_43566840	NC_021166.1	Ca_Kabuli_Chr07	43566840	CC	TT	TT	INTERGENIC			
SNP_57972_A_43566854	NC_021166.1	Ca_Kabuli_Chr07	43566854	AA	TT	TT	INTERGENIC			
SNP_57974_A_43608008	NC_021166.1	Ca_Kabuli_Chr07	43608008	AA	TT	TT	INTERGENIC			
SNP_57975_A_43608010	NC_021166.1	Ca_Kabuli_Chr07	43608010	TT	AA	AA	INTERGENIC			
SNP_57976_A_43608011	NC_021166.1	Ca_Kabuli_Chr07	43608011	TT	AA	AA	INTERGENIC			
SNP_57977_A_43608012	NC_021166.1	Ca_Kabuli_Chr07	43608012	CC	TT	TT	INTERGENIC			
SNP_57978_A_43613148	NC_021166.1	Ca_Kabuli_Chr07	43613148	CC	AA	AA	INTERGENIC			
SNP_57979_A_43616504	NC_021166.1	Ca_Kabuli_Chr07	43616504	CC	GG	GG	INTERGENIC			
SNP_57981_A_43625228	NC_021166.1	Ca_Kabuli_Chr07	43625228	AA	GG	GG	INTRON		101501130	probable polygalacturonase At3g15720
SNP_57982_A_43641884	NC_021166.1	Ca_Kabuli_Chr07	43641884	GG	CC	CC	DRR		101497251	cysteine-rich receptor-like protein kinase 10
SNP_57983_A_43641912	NC_021166.1	Ca_Kabuli_Chr07	43641912	AA	GG	GG	DRR		101497251	cysteine-rich receptor-like protein kinase 10
SNP_57984_A_43641916	NC_021166.1	Ca_Kabuli_Chr07	43641916	TT	GG	GG	DRR		101497251	cysteine-rich receptor-like protein kinase 10
SNP_57985_A_43654590	NC_021166.1	Ca_Kabuli_Chr07	43654590	AA	GG	GG	INTERGENIC			
SNP_57986_A_43675029	NC_021166.1	Ca_Kabuli_Chr07	43675029	CC	TT	TT	INTERGENIC			
SNP_57987_A_43677748	NC_021166.1	Ca_Kabuli_Chr07	43677748	GG	AA	AA	INTERGENIC			
SNP_57988_A_43685580	NC_021166.1	Ca_Kabuli_Chr07	43685580	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_57989_A_43693027	NC_021166.1	Ca_Kabuli_Chr07	43693027	GG	AA	AA	INTERGENIC		
SNP_57990_A_43693049	NC_021166.1	Ca_Kabuli_Chr07	43693049	GG	AA	AA	INTERGENIC		
SNP_57991_A_43693154	NC_021166.1	Ca_Kabuli_Chr07	43693154	GG	AA	AA	INTERGENIC		
SNP_57992_A_43693175	NC_021166.1	Ca_Kabuli_Chr07	43693175	GG	AA	AA	INTERGENIC		
SNP_57993_A_43693181	NC_021166.1	Ca_Kabuli_Chr07	43693181	GG	CC	CC	INTERGENIC		
SNP_57994_A_43696187	NC_021166.1	Ca_Kabuli_Chr07	43696187	TT	AA	AA	INTERGENIC		
SNP_57995_A_43703321	NC_021166.1	Ca_Kabuli_Chr07	43703321	TT	AA	AA	INTERGENIC		
SNP_57996_A_43703991	NC_021166.1	Ca_Kabuli_Chr07	43703991	CC	TT	TT	INTERGENIC		
SNP_57997_A_43703998	NC_021166.1	Ca_Kabuli_Chr07	43703998	TT	GG	GG	INTERGENIC		
SNP_57998_A_43705901	NC_021166.1	Ca_Kabuli_Chr07	43705901	AA	GG	GG	INTERGENIC		
SNP_57999_A_43715164	NC_021166.1	Ca_Kabuli_Chr07	43715164	CC	GG	GG	INTERGENIC		
SNP_58000_A_43736102	NC_021166.1	Ca_Kabuli_Chr07	43736102	AA	TT	TT	INTERGENIC		
SNP_58001_A_43738107	NC_021166.1	Ca_Kabuli_Chr07	43738107	AA	GG	GG	INTERGENIC		
SNP_58002_A_43748287	NC_021166.1	Ca_Kabuli_Chr07	43748287	GG	AA	AA	URR	101502082	uncharacterized LOC101502082
SNP_58003_A_43772708	NC_021166.1	Ca_Kabuli_Chr07	43772708	GG	TT	TT	URR	101506812	uncharacterized LOC101506812
SNP_58004_A_43773271	NC_021166.1	Ca_Kabuli_Chr07	43773271	AA	CC	CC	URR	101506812	uncharacterized LOC101506812
SNP_58005_A_43777483	NC_021166.1	Ca_Kabuli_Chr07	43777483	CC	TT	TT	INTERGENIC		
SNP_58006_A_43777497	NC_021166.1	Ca_Kabuli_Chr07	43777497	TT	CC	CC	INTERGENIC		
SNP_58007_A_43777519	NC_021166.1	Ca_Kabuli_Chr07	43777519	AA	GG	GG	INTERGENIC		
SNP_58008_A_43780659	NC_021166.1	Ca_Kabuli_Chr07	43780659	AA	GG	TT	INTERGENIC		
SNP_58009_A_43780902	NC_021166.1	Ca_Kabuli_Chr07	43780902	AA	GG	GG	INTERGENIC		
SNP_58010_A_43780934	NC_021166.1	Ca_Kabuli_Chr07	43780934	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58011_A_43781653	NC_021166.1	Ca_Kabuli_Chr07	43781653	AA	GG	GG	INTERGENIC			
SNP_58012_A_43786856	NC_021166.1	Ca_Kabuli_Chr07	43786856	AA	GG	GG	URR	101507149		uncharacterized LOC101507149
SNP_58013_A_43796756	NC_021166.1	Ca_Kabuli_Chr07	43796756	GG	TT	TT	INTERGENIC			
SNP_58015_A_43832790	NC_021166.1	Ca_Kabuli_Chr07	43832790	TT	CC	CC	INTERGENIC			
SNP_58016_A_43838576	NC_021166.1	Ca_Kabuli_Chr07	43838576	AA	TT	TT	INTERGENIC			
SNP_58017_A_43838679	NC_021166.1	Ca_Kabuli_Chr07	43838679	AA	GG	GG	INTERGENIC			
SNP_58018_A_43838729	NC_021166.1	Ca_Kabuli_Chr07	43838729	AA	CC	CC	INTERGENIC			
SNP_58019_A_43838759	NC_021166.1	Ca_Kabuli_Chr07	43838759	AA	GG	GG	INTERGENIC			
SNP_58020_A_43841175	NC_021166.1	Ca_Kabuli_Chr07	43841175	TT	CC	CC	INTERGENIC			
SNP_58021_A_43864690	NC_021166.1	Ca_Kabuli_Chr07	43864690	GG	CC	CC	INTERGENIC			
SNP_58022_A_43879216	NC_021166.1	Ca_Kabuli_Chr07	43879216	CC	TT	TT	INTERGENIC			
SNP_58023_A_43971712	NC_021166.1	Ca_Kabuli_Chr07	43971712	TT	CC	CC	INTERGENIC			
SNP_58024_A_43993554	NC_021166.1	Ca_Kabuli_Chr07	43993554	AA	GG	GG	INTERGENIC			
SNP_58025_A_43993877	NC_021166.1	Ca_Kabuli_Chr07	43993877	CC	GG	GG	INTERGENIC			
SNP_58026_A_43993895	NC_021166.1	Ca_Kabuli_Chr07	43993895	GG	TT	TT	INTERGENIC			
SNP_58027_A_43999497	NC_021166.1	Ca_Kabuli_Chr07	43999497	GG	AA	AA	INTERGENIC			
SNP_58028_A_43999556	NC_021166.1	Ca_Kabuli_Chr07	43999556	CC	TT	TT	INTERGENIC			
SNP_58029_A_43999572	NC_021166.1	Ca_Kabuli_Chr07	43999572	AA	GG	GG	INTERGENIC			
SNP_58030_A_43999631	NC_021166.1	Ca_Kabuli_Chr07	43999631	AA	GG	GG	INTERGENIC			
SNP_58031_A_43999915	NC_021166.1	Ca_Kabuli_Chr07	43999915	CC	TT	TT	INTERGENIC			
SNP_58032_A_44001118	NC_021166.1	Ca_Kabuli_Chr07	44001118	CC	TT	TT	INTERGENIC			
SNP_58033_A_44001270	NC_021166.1	Ca_Kabuli_Chr07	44001270	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58034_A_44001301	NC_021166.1	Ca_Kabuli_Chr07	44001301	TT	AA	AA	INTERGENIC			
SNP_58035_A_44001326	NC_021166.1	Ca_Kabuli_Chr07	44001326	TT	CC	CC	INTERGENIC			
SNP_58036_A_44001370	NC_021166.1	Ca_Kabuli_Chr07	44001370	TT	CC	CC	INTERGENIC			
SNP_58037_A_44001417	NC_021166.1	Ca_Kabuli_Chr07	44001417	CC	AA	AA	INTERGENIC			
SNP_58038_A_44001427	NC_021166.1	Ca_Kabuli_Chr07	44001427	GG	AA	AA	INTERGENIC			
SNP_58039_A_44001431	NC_021166.1	Ca_Kabuli_Chr07	44001431	CC	TT	TT	INTERGENIC			
SNP_58040_A_44001558	NC_021166.1	Ca_Kabuli_Chr07	44001558	CC	TT	TT	INTERGENIC			
SNP_58042_A_44001626	NC_021166.1	Ca_Kabuli_Chr07	44001626	AA	TT	TT	INTERGENIC			
SNP_58043_A_44001885	NC_021166.1	Ca_Kabuli_Chr07	44001885	AA	CC	CC	INTERGENIC			
SNP_58044_A_44001939	NC_021166.1	Ca_Kabuli_Chr07	44001939	TT	CC	CC	INTERGENIC			
SNP_58045_A_44001948	NC_021166.1	Ca_Kabuli_Chr07	44001948	CC	TT	TT	INTERGENIC			
SNP_58046_A_44002223	NC_021166.1	Ca_Kabuli_Chr07	44002223	TT	AA	AA	INTERGENIC			
SNP_58047_A_44002291	NC_021166.1	Ca_Kabuli_Chr07	44002291	AA	CC	CC	INTERGENIC			
SNP_58048_A_44002344	NC_021166.1	Ca_Kabuli_Chr07	44002344	CC	AA	AA	INTERGENIC			
SNP_58049_A_44019270	NC_021166.1	Ca_Kabuli_Chr07	44019270	GG	AA	AA	INTERGENIC			
SNP_58050_A_44053425	NC_021166.1	Ca_Kabuli_Chr07	44053425	CC	TT	TT	INTERGENIC			
SNP_58051_A_44076016	NC_021166.1	Ca_Kabuli_Chr07	44076016	CC	AA	AA	INTERGENIC			
SNP_58052_A_44082832	NC_021166.1	Ca_Kabuli_Chr07	44082832	GG	TT	TT	INTERGENIC			
SNP_58054_A_44091771	NC_021166.1	Ca_Kabuli_Chr07	44091771	CC	TT	TT	INTERGENIC			
SNP_58055_A_44103859	NC_021166.1	Ca_Kabuli_Chr07	44103859	TT	CC	CC	INTERGENIC			
SNP_58056_A_44116357	NC_021166.1	Ca_Kabuli_Chr07	44116357	TT	CC	CC	INTERGENIC			
SNP_58057_A_44116384	NC_021166.1	Ca_Kabuli_Chr07	44116384	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58058_A_44150066	NC_021166.1	Ca_Kabuli_Chr07	44150066	GG	AA	AA	INTERGENIC			
SNP_58060_A_44161213	NC_021166.1	Ca_Kabuli_Chr07	44161213	CC	AA	AA	INTERGENIC			
SNP_58061_A_44174082	NC_021166.1	Ca_Kabuli_Chr07	44174082	AA	GG	GG	INTERGENIC			
SNP_58062_A_44185433	NC_021166.1	Ca_Kabuli_Chr07	44185433	GG	AA	AA	INTERGENIC			
SNP_58063_A_44199235	NC_021166.1	Ca_Kabuli_Chr07	44199235	GG	AA	AA	INTERGENIC			
SNP_58064_A_44213826	NC_021166.1	Ca_Kabuli_Chr07	44213826	AA	GG	GG	INTERGENIC			
SNP_58065_A_44213889	NC_021166.1	Ca_Kabuli_Chr07	44213889	AA	TT	TT	INTERGENIC			
SNP_58066_A_44214081	NC_021166.1	Ca_Kabuli_Chr07	44214081	CC	AA	AA	INTERGENIC			
SNP_58067_A_44214117	NC_021166.1	Ca_Kabuli_Chr07	44214117	AA	GG	GG	INTERGENIC			
SNP_58068_A_44214125	NC_021166.1	Ca_Kabuli_Chr07	44214125	AA	GG	GG	INTERGENIC			
SNP_58069_A_44214294	NC_021166.1	Ca_Kabuli_Chr07	44214294	CC	AA	AA	INTERGENIC			
SNP_58070_A_44214308	NC_021166.1	Ca_Kabuli_Chr07	44214308	TT	CC	CC	INTERGENIC			
SNP_58071_A_44214492	NC_021166.1	Ca_Kabuli_Chr07	44214492	TT	CC	CC	INTERGENIC			
SNP_58072_A_44214505	NC_021166.1	Ca_Kabuli_Chr07	44214505	CC	TT	TT	INTERGENIC			
SNP_58073_A_44214559	NC_021166.1	Ca_Kabuli_Chr07	44214559	TT	AA	AA	INTERGENIC			
SNP_58074_A_44242268	NC_021166.1	Ca_Kabuli_Chr07	44242268	CC	TT	TT	INTERGENIC			
SNP_58075_A_44242275	NC_021166.1	Ca_Kabuli_Chr07	44242275	TT	CC	CC	INTERGENIC			
SNP_58076_A_44242276	NC_021166.1	Ca_Kabuli_Chr07	44242276	CC	TT	TT	INTERGENIC			
SNP_58077_A_44322209	NC_021166.1	Ca_Kabuli_Chr07	44322209	AA	CC	CC	INTERGENIC			
SNP_58078_A_44325679	NC_021166.1	Ca_Kabuli_Chr07	44325679	GG	AA	AA	INTERGENIC			
SNP_58079_A_44334041	NC_021166.1	Ca_Kabuli_Chr07	44334041	GG	CC	CC	INTERGENIC			
SNP_58081_A_44391530	NC_021166.1	Ca_Kabuli_Chr07	44391530	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58082_A_44395922	NC_021166.1	Ca_Kabuli_Chr07	44395922	AA	CC	CC	INTERGENIC			
SNP_58083_A_44395924	NC_021166.1	Ca_Kabuli_Chr07	44395924	AA	TT	TT	INTERGENIC			
SNP_58084_A_44395937	NC_021166.1	Ca_Kabuli_Chr07	44395937	AA	CC	CC	INTERGENIC			
SNP_58085_A_44396011	NC_021166.1	Ca_Kabuli_Chr07	44396011	TT	CC	CC	INTERGENIC			
SNP_58086_A_44396026	NC_021166.1	Ca_Kabuli_Chr07	44396026	AA	GG	GG	INTERGENIC			
SNP_58087_A_44396151	NC_021166.1	Ca_Kabuli_Chr07	44396151	AA	GG	GG	INTERGENIC			
SNP_58088_A_44396158	NC_021166.1	Ca_Kabuli_Chr07	44396158	TT	CC	CC	INTERGENIC			
SNP_58089_A_44396353	NC_021166.1	Ca_Kabuli_Chr07	44396353	CC	TT	TT	INTERGENIC			
SNP_58090_A_44396359	NC_021166.1	Ca_Kabuli_Chr07	44396359	AA	GG	GG	INTERGENIC			
SNP_58091_A_44396425	NC_021166.1	Ca_Kabuli_Chr07	44396425	AA	CC	CC	INTERGENIC			
SNP_58093_A_44396493	NC_021166.1	Ca_Kabuli_Chr07	44396493	AA	GG	GG	INTERGENIC			
SNP_58094_A_44396516	NC_021166.1	Ca_Kabuli_Chr07	44396516	GG	AA	AA	INTERGENIC			
SNP_58095_A_44404721	NC_021166.1	Ca_Kabuli_Chr07	44404721	TT	CC	CC	INTERGENIC			
SNP_58097_A_44440724	NC_021166.1	Ca_Kabuli_Chr07	44440724	AA	GG	GG	INTERGENIC			
SNP_58098_A_44441043	NC_021166.1	Ca_Kabuli_Chr07	44441043	GG	AA	AA	INTERGENIC			
SNP_58099_A_44442504	NC_021166.1	Ca_Kabuli_Chr07	44442504	AA	GG	GG	INTERGENIC			
SNP_58100_A_44442506	NC_021166.1	Ca_Kabuli_Chr07	44442506	AA	TT	TT	INTERGENIC			
SNP_58103_A_44497353	NC_021166.1	Ca_Kabuli_Chr07	44497353	AA	TT	TT	INTERGENIC			
SNP_58104_A_44503837	NC_021166.1	Ca_Kabuli_Chr07	44503837	CC	GG	GG	INTERGENIC			
SNP_58105_A_44504300	NC_021166.1	Ca_Kabuli_Chr07	44504300	AA	CC	CC	INTERGENIC			
SNP_58106_A_44505296	NC_021166.1	Ca_Kabuli_Chr07	44505296	TT	AA	AA	INTERGENIC			
SNP_58107_A_44508894	NC_021166.1	Ca_Kabuli_Chr07	44508894	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58108_A_44508909	NC_021166.1	Ca_Kabuli_Chr07	44508909	GG	TT	TT	INTERGENIC			
SNP_58109_A_44533164	NC_021166.1	Ca_Kabuli_Chr07	44533164	GG	AA	AA	URR	101511606		uncharacterized LOC101511606
SNP_58110_A_44543118	NC_021166.1	Ca_Kabuli_Chr07	44543118	TT	AA	AA	INTERGENIC			
SNP_58111_A_44543578	NC_021166.1	Ca_Kabuli_Chr07	44543578	CC	AA	AA	INTERGENIC			
SNP_58112_A_44543651	NC_021166.1	Ca_Kabuli_Chr07	44543651	GG	TT	TT	INTERGENIC			
SNP_58113_A_44543658	NC_021166.1	Ca_Kabuli_Chr07	44543658	GG	AA	AA	INTERGENIC			
SNP_58114_A_44543665	NC_021166.1	Ca_Kabuli_Chr07	44543665	CC	AA	AA	INTERGENIC			
SNP_58115_A_44543666	NC_021166.1	Ca_Kabuli_Chr07	44543666	TT	AA	AA	INTERGENIC			
SNP_58116_A_44543670	NC_021166.1	Ca_Kabuli_Chr07	44543670	AA	TT	TT	INTERGENIC			
SNP_58118_A_44543864	NC_021166.1	Ca_Kabuli_Chr07	44543864	GG	AA	AA	INTERGENIC			
SNP_58119_A_44543995	NC_021166.1	Ca_Kabuli_Chr07	44543995	TT	GG	GG	INTERGENIC			
SNP_58120_A_44544083	NC_021166.1	Ca_Kabuli_Chr07	44544083	AA	TT	TT	INTERGENIC			
SNP_58121_A_44565077	NC_021166.1	Ca_Kabuli_Chr07	44565077	TT	CC	CC	INTERGENIC			
SNP_58122_A_44571598	NC_021166.1	Ca_Kabuli_Chr07	44571598	CC	AA	AA	INTERGENIC			
SNP_58123_A_44571730	NC_021166.1	Ca_Kabuli_Chr07	44571730	AA	GG	GG	INTERGENIC			
SNP_58124_A_44571733	NC_021166.1	Ca_Kabuli_Chr07	44571733	TT	AA	AA	INTERGENIC			
SNP_58125_A_44571988	NC_021166.1	Ca_Kabuli_Chr07	44571988	GG	AA	AA	INTERGENIC			
SNP_58126_A_44572027	NC_021166.1	Ca_Kabuli_Chr07	44572027	TT	AA	AA	INTERGENIC			
SNP_58127_A_44572129	NC_021166.1	Ca_Kabuli_Chr07	44572129	TT	AA	AA	INTERGENIC			
SNP_58128_A_44675951	NC_021166.1	Ca_Kabuli_Chr07	44675951	GG	AA	AA	INTERGENIC			
SNP_58129_A_44679898	NC_021166.1	Ca_Kabuli_Chr07	44679898	TT	CC	CC	INTERGENIC			
SNP_58130_A_44689018	NC_021166.1	Ca_Kabuli_Chr07	44689018	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58131_A_44701706	NC_021166.1	Ca_Kabuli_Chr07	44701706	CC	TT	TT	INTERGENIC		
SNP_58132_A_44707215	NC_021166.1	Ca_Kabuli_Chr07	44707215	TT	CC	CC	INTERGENIC		
SNP_58133_A_44716395	NC_021166.1	Ca_Kabuli_Chr07	44716395	TT	GG	GG	DRR	101497144	Unknown function
SNP_58134_A_44796461	NC_021166.1	Ca_Kabuli_Chr07	44796461	CC	GG	GG	INTERGENIC		
SNP_58135_A_44821814	NC_021166.1	Ca_Kabuli_Chr07	44821814	GG	AA	AA	INTERGENIC		
SNP_58136_A_44822404	NC_021166.1	Ca_Kabuli_Chr07	44822404	AA	TT	TT	INTERGENIC		
SNP_58137_A_44822656	NC_021166.1	Ca_Kabuli_Chr07	44822656	CC	AA	AA	INTERGENIC		
SNP_58138_A_44822659	NC_021166.1	Ca_Kabuli_Chr07	44822659	AA	GG	GG	INTERGENIC		
SNP_58139_A_44822679	NC_021166.1	Ca_Kabuli_Chr07	44822679	AA	CC	CC	INTERGENIC		
SNP_58140_A_44822702	NC_021166.1	Ca_Kabuli_Chr07	44822702	TT	CC	CC	INTERGENIC		
SNP_58142_A_44823829	NC_021166.1	Ca_Kabuli_Chr07	44823829	GG	TT	TT	INTERGENIC		
SNP_58144_A_44830231	NC_021166.1	Ca_Kabuli_Chr07	44830231	AA	GG	GG	INTERGENIC		
SNP_58145_A_44830234	NC_021166.1	Ca_Kabuli_Chr07	44830234	GG	AA	AA	INTERGENIC		
SNP_58146_A_44830235	NC_021166.1	Ca_Kabuli_Chr07	44830235	CC	TT	TT	INTERGENIC		
SNP_58147_A_44830240	NC_021166.1	Ca_Kabuli_Chr07	44830240	GG	AA	AA	INTERGENIC		
SNP_58148_A_44830245	NC_021166.1	Ca_Kabuli_Chr07	44830245	TT	CC	CC	INTERGENIC		
SNP_58149_A_44832889	NC_021166.1	Ca_Kabuli_Chr07	44832889	CC	TT	TT	INTERGENIC		
SNP_58150_A_44832910	NC_021166.1	Ca_Kabuli_Chr07	44832910	AA	GG	GG	INTERGENIC		
SNP_58151_A_44832922	NC_021166.1	Ca_Kabuli_Chr07	44832922	CC	AA	AA	INTERGENIC		
SNP_58152_A_44835044	NC_021166.1	Ca_Kabuli_Chr07	44835044	AA	GG	GG	INTERGENIC		
SNP_58153_A_44892724	NC_021166.1	Ca_Kabuli_Chr07	44892724	AA	TT	TT	URR	101514638	protein FAR1-RELATED SEQUENCE 3-like
SNP_58154_A_44897707	NC_021166.1	Ca_Kabuli_Chr07	44897707	TT	CC	CC	DRR	101515619	uncharacterized LOC101515619

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58155_A_44924492	NC_021166.1	Ca_Kabuli_Chr07	44924492	GG	AA	AA	INTRON	101498809	Unknown function
SNP_58156_A_44977051	NC_021166.1	Ca_Kabuli_Chr07	44977051	CC	TT	TT	INTERGENIC		
SNP_58157_A_44977158	NC_021166.1	Ca_Kabuli_Chr07	44977158	TT	CC	CC	INTERGENIC		
SNP_58158_A_44977182	NC_021166.1	Ca_Kabuli_Chr07	44977182	TT	AA	AA	INTERGENIC		
SNP_58159_A_44977183	NC_021166.1	Ca_Kabuli_Chr07	44977183	CC	AA	AA	INTERGENIC		
SNP_58161_A_44977215	NC_021166.1	Ca_Kabuli_Chr07	44977215	TT	CC	CC	INTERGENIC		
SNP_58162_A_45026048	NC_021166.1	Ca_Kabuli_Chr07	45026048	GG	CC	CC	INTERGENIC		
SNP_58163_A_45028330	NC_021166.1	Ca_Kabuli_Chr07	45028330	GG	TT	TT	INTERGENIC		
SNP_58164_A_45044164	NC_021166.1	Ca_Kabuli_Chr07	45044164	GG	CC	CC	INTERGENIC		
SNP_58165_A_45044246	NC_021166.1	Ca_Kabuli_Chr07	45044246	AA	GG	GG	INTERGENIC		
SNP_58166_A_45044467	NC_021166.1	Ca_Kabuli_Chr07	45044467	CC	TT	TT	INTERGENIC		
SNP_58167_A_45044520	NC_021166.1	Ca_Kabuli_Chr07	45044520	AA	GG	GG	INTERGENIC		
SNP_58168_A_45044538	NC_021166.1	Ca_Kabuli_Chr07	45044538	AA	GG	GG	INTERGENIC		
SNP_58169_A_45044543	NC_021166.1	Ca_Kabuli_Chr07	45044543	GG	AA	AA	INTERGENIC		
SNP_58170_A_45044561	NC_021166.1	Ca_Kabuli_Chr07	45044561	GG	AA	AA	INTERGENIC		
SNP_58171_A_45044569	NC_021166.1	Ca_Kabuli_Chr07	45044569	CC	TT	TT	INTERGENIC		
SNP_58172_A_45044625	NC_021166.1	Ca_Kabuli_Chr07	45044625	TT	CC	CC	INTERGENIC		
SNP_58173_A_45044655	NC_021166.1	Ca_Kabuli_Chr07	45044655	AA	GG	GG	INTERGENIC		
SNP_58174_A_45050952	NC_021166.1	Ca_Kabuli_Chr07	45050952	AA	GG	GG	INTERGENIC		
SNP_58175_A_45087639	NC_021166.1	Ca_Kabuli_Chr07	45087639	CC	TT	TT	INTERGENIC		
SNP_58176_A_45088016	NC_021166.1	Ca_Kabuli_Chr07	45088016	CC	AA	AA	INTERGENIC		
SNP_58178_A_45089358	NC_021166.1	Ca_Kabuli_Chr07	45089358	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58179_A_45089385	NC_021166.1	Ca_Kabuli_Chr07	45089385	AA	GG	GG	INTERGENIC			
SNP_58180_A_45093773	NC_021166.1	Ca_Kabuli_Chr07	45093773	GG	AA	AA	INTERGENIC			
SNP_58181_A_45094775	NC_021166.1	Ca_Kabuli_Chr07	45094775	AA	GG	GG	INTERGENIC			
SNP_58182_A_45113244	NC_021166.1	Ca_Kabuli_Chr07	45113244	CC	TT	TT	INTERGENIC			
SNP_58183_A_45113341	NC_021166.1	Ca_Kabuli_Chr07	45113341	AA	GG	GG	INTERGENIC			
SNP_58184_A_45113447	NC_021166.1	Ca_Kabuli_Chr07	45113447	AA	GG	GG	INTERGENIC			
SNP_58185_A_45113457	NC_021166.1	Ca_Kabuli_Chr07	45113457	AA	CC	CC	INTERGENIC			
SNP_58186_A_45113473	NC_021166.1	Ca_Kabuli_Chr07	45113473	GG	AA	AA	INTERGENIC			
SNP_58187_A_45113682	NC_021166.1	Ca_Kabuli_Chr07	45113682	GG	AA	AA	INTERGENIC			
SNP_58188_A_45123171	NC_021166.1	Ca_Kabuli_Chr07	45123171	CC	AA	AA	INTERGENIC			
SNP_58189_A_45124831	NC_021166.1	Ca_Kabuli_Chr07	45124831	AA	GG	GG	INTERGENIC			
SNP_58190_A_45124874	NC_021166.1	Ca_Kabuli_Chr07	45124874	AA	TT	TT	INTERGENIC			
SNP_58191_A_45127789	NC_021166.1	Ca_Kabuli_Chr07	45127789	AA	GG	GG	INTERGENIC			
SNP_58192_A_45132289	NC_021166.1	Ca_Kabuli_Chr07	45132289	CC	TT	TT	INTERGENIC			
SNP_58193_A_45135171	NC_021166.1	Ca_Kabuli_Chr07	45135171	TT	CC	CC	INTERGENIC			
SNP_58194_A_45149736	NC_021166.1	Ca_Kabuli_Chr07	45149736	AA	GG	GG	URR	101499447	transcription factor GTE4-like	
SNP_58195_A_45149790	NC_021166.1	Ca_Kabuli_Chr07	45149790	TT	AA	AA	URR	101499447	transcription factor GTE4-like	
SNP_58196_A_45151007	NC_021166.1	Ca_Kabuli_Chr07	45151007	TT	CC	CC	INTERGENIC			
SNP_58197_A_45151201	NC_021166.1	Ca_Kabuli_Chr07	45151201	AA	CC	CC	INTERGENIC			
SNP_58198_A_45151257	NC_021166.1	Ca_Kabuli_Chr07	45151257	AA	GG	GG	INTERGENIC			
SNP_58199_A_45151314	NC_021166.1	Ca_Kabuli_Chr07	45151314	TT	CC	CC	INTERGENIC			
SNP_58200_A_45151494	NC_021166.1	Ca_Kabuli_Chr07	45151494	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58201_A_45151523	NC_021166.1	Ca_Kabuli_Chr07	45151523	CC	TT	TT	INTERGENIC		
SNP_58202_A_45164254	NC_021166.1	Ca_Kabuli_Chr07	45164254	GG	CC	CC	INTERGENIC		
SNP_58203_A_45169409	NC_021166.1	Ca_Kabuli_Chr07	45169409	GG	AA	AA	INTRON	101499752	uncharacterized LOC101499752
SNP_58204_A_45169882	NC_021166.1	Ca_Kabuli_Chr07	45169882	CC	TT	TT	INTRON	101499752	uncharacterized LOC101499752
SNP_58205_A_45177996	NC_021166.1	Ca_Kabuli_Chr07	45177996	TT	AA	AA	INTERGENIC		
SNP_58206_A_45178040	NC_021166.1	Ca_Kabuli_Chr07	45178040	CC	TT	TT	INTERGENIC		
SNP_58207_A_45178048	NC_021166.1	Ca_Kabuli_Chr07	45178048	AA	TT	TT	INTERGENIC		
SNP_58208_A_45178096	NC_021166.1	Ca_Kabuli_Chr07	45178096	TT	AA	AA	INTERGENIC		
SNP_58209_A_45178534	NC_021166.1	Ca_Kabuli_Chr07	45178534	GG	AA	AA	INTERGENIC		
SNP_58210_A_45178931	NC_021166.1	Ca_Kabuli_Chr07	45178931	GG	AA	AA	INTERGENIC		
SNP_58211_A_45178963	NC_021166.1	Ca_Kabuli_Chr07	45178963	GG	AA	AA	INTERGENIC		
SNP_58212_A_45179010	NC_021166.1	Ca_Kabuli_Chr07	45179010	TT	AA	AA	INTERGENIC		
SNP_58213_A_45179049	NC_021166.1	Ca_Kabuli_Chr07	45179049	CC	AA	AA	INTERGENIC		
SNP_58214_A_45179224	NC_021166.1	Ca_Kabuli_Chr07	45179224	AA	GG	GG	DRR	101500061	Unknown function
SNP_58215_A_45179264	NC_021166.1	Ca_Kabuli_Chr07	45179264	GG	AA	AA	DRR	101500061	Unknown function
SNP_58216_A_45179427	NC_021166.1	Ca_Kabuli_Chr07	45179427	AA	TT	TT	DRR	101500061	Unknown function
SNP_58217_A_45179441	NC_021166.1	Ca_Kabuli_Chr07	45179441	TT	CC	CC	DRR	101500061	Unknown function
SNP_58218_A_45179494	NC_021166.1	Ca_Kabuli_Chr07	45179494	TT	GG	GG	DRR	101500061	Unknown function
SNP_58219_A_45182053	NC_021166.1	Ca_Kabuli_Chr07	45182053	TT	AA	AA	URR	101500061	Unknown function
SNP_58222_A_45235356	NC_021166.1	Ca_Kabuli_Chr07	45235356	GG	AA	AA	INTERGENIC		
SNP_58223_A_45239190	NC_021166.1	Ca_Kabuli_Chr07	45239190	TT	AA	AA	INTRON	101490223	caffeoylshikimate esterase-like
SNP_58224_A_45239191	NC_021166.1	Ca_Kabuli_Chr07	45239191	TT	AA	AA	INTRON	101490223	caffeoylshikimate esterase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58225_A_45239711	NC_021166.1	Ca_Kabuli_Chr07	45239711	CC	AA	AA	INTRON	101490223	caffeoylshikimate esterase-like
SNP_58228_A_45249099	NC_021166.1	Ca_Kabuli_Chr07	45249099	TT	AA	AA	URR	101490223	caffeoylshikimate esterase-like
SNP_58229_A_45249100	NC_021166.1	Ca_Kabuli_Chr07	45249100	TT	AA	AA	URR	101490223	caffeoylshikimate esterase-like
SNP_58230_A_45259722	NC_021166.1	Ca_Kabuli_Chr07	45259722	TT	CC	CC	INTERGENIC		
SNP_58231_A_45290953	NC_021166.1	Ca_Kabuli_Chr07	45290953	CC	TT	TT	URR	101491095	chlorophyll(ide) b reductase NOL, chloroplastic
SNP_58232_A_45292618	NC_021166.1	Ca_Kabuli_Chr07	45292618	AA	TT	TT	INTERGENIC		
SNP_58233_A_45294595	NC_021166.1	Ca_Kabuli_Chr07	45294595	CC	AA	AA	INTERGENIC		
SNP_58234_A_45317457	NC_021166.1	Ca_Kabuli_Chr07	45317457	CC	AA	AA	INTRON	101491411	ATP-dependent RNA helicase DHX36
SNP_58235_A_45350489	NC_021166.1	Ca_Kabuli_Chr07	45350489	CC	TT	TT	INTERGENIC		
SNP_58236_A_45377557	NC_021166.1	Ca_Kabuli_Chr07	45377557	GG	CC	CC	INTERGENIC		
SNP_58237_A_45378377	NC_021166.1	Ca_Kabuli_Chr07	45378377	CC	TT	TT	INTERGENIC		
SNP_58238_A_45383582	NC_021166.1	Ca_Kabuli_Chr07	45383582	TT	AA	AA	NON_SYNONYMOUS_CODING	101492046	protein RBL-like
SNP_58239_A_45391224	NC_021166.1	Ca_Kabuli_Chr07	45391224	AA	GG	GG	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58240_A_45391299	NC_021166.1	Ca_Kabuli_Chr07	45391299	AA	GG	GG	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58241_A_45391404	NC_021166.1	Ca_Kabuli_Chr07	45391404	TT	CC	CC	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58242_A_45391545	NC_021166.1	Ca_Kabuli_Chr07	45391545	AA	GG	GG	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58243_A_45391598	NC_021166.1	Ca_Kabuli_Chr07	45391598	GG	TT	TT	SYNONYMOUS_CODING	101501019	Unknown function
SNP_58244_A_45391605	NC_021166.1	Ca_Kabuli_Chr07	45391605	AA	TT	TT	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58245_A_45391624	NC_021166.1	Ca_Kabuli_Chr07	45391624	GG	AA	AA	NON_SYNONYMOUS_CODING	101501019	Unknown function
SNP_58246_A_45392091	NC_021166.1	Ca_Kabuli_Chr07	45392091	GG	AA	AA	URR	101501019	Unknown function
SNP_58247_A_45436633	NC_021166.1	Ca_Kabuli_Chr07	45436633	TT	CC	CC	INTERGENIC		
SNP_58248_A_45439807	NC_021166.1	Ca_Kabuli_Chr07	45439807	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58249_A_45439822	NC_021166.1	Ca_Kabuli_Chr07	45439822	CC	TT	TT	INTERGENIC		
SNP_58250_A_45439825	NC_021166.1	Ca_Kabuli_Chr07	45439825	CC	TT	TT	INTERGENIC		
SNP_58251_A_45439849	NC_021166.1	Ca_Kabuli_Chr07	45439849	AA	GG	GG	INTERGENIC		
SNP_58252_A_45439995	NC_021166.1	Ca_Kabuli_Chr07	45439995	GG	AA	AA	INTERGENIC		
SNP_58253_A_45440005	NC_021166.1	Ca_Kabuli_Chr07	45440005	AA	CC	CC	INTERGENIC		
SNP_58254_A_45443574	NC_021166.1	Ca_Kabuli_Chr07	45443574	TT	CC	CC	INTERGENIC		
SNP_58255_A_45458218	NC_021166.1	Ca_Kabuli_Chr07	45458218	TT	AA	AA	INTERGENIC		
SNP_58256_A_45499212	NC_021166.1	Ca_Kabuli_Chr07	45499212	AA	TT	TT	DRR	101493377	MLP-like protein 43
SNP_58257_A_45538835	NC_021166.1	Ca_Kabuli_Chr07	45538835	CC	AA	AA	INTRON	101493377	MLP-like protein 43
SNP_58258_A_45539220	NC_021166.1	Ca_Kabuli_Chr07	45539220	GG	AA	AA	INTRON	101493377	MLP-like protein 43
SNP_58259_A_45539243	NC_021166.1	Ca_Kabuli_Chr07	45539243	AA	CC	CC	INTRON	101493377	MLP-like protein 43
SNP_58260_A_45539549	NC_021166.1	Ca_Kabuli_Chr07	45539549	AA	CC	CC	INTRON	101493377	MLP-like protein 43
SNP_58261_A_45539691	NC_021166.1	Ca_Kabuli_Chr07	45539691	AA	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58262_A_45539698	NC_021166.1	Ca_Kabuli_Chr07	45539698	TT	AA	AA	INTRON	101493377	MLP-like protein 43
SNP_58263_A_45539703	NC_021166.1	Ca_Kabuli_Chr07	45539703	TT	GG	GG	INTRON	101493377	MLP-like protein 43
SNP_58264_A_45539870	NC_021166.1	Ca_Kabuli_Chr07	45539870	CC	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58265_A_45553195	NC_021166.1	Ca_Kabuli_Chr07	45553195	CC	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58266_A_45597746	NC_021166.1	Ca_Kabuli_Chr07	45597746	TT	CC	CC	INTRON	101493377	MLP-like protein 43
SNP_58267_A_45603259	NC_021166.1	Ca_Kabuli_Chr07	45603259	GG	AA	AA	INTRON	101493377	MLP-like protein 43
SNP_58268_A_45621920	NC_021166.1	Ca_Kabuli_Chr07	45621920	AA	GG	GG	INTRON	101493053	embryonic abundant protein VF30.1-like
SNP_58269_A_45634261	NC_021166.1	Ca_Kabuli_Chr07	45634261	AA	GG	GG	INTRON	101493377	MLP-like protein 43
SNP_58270_A_45634331	NC_021166.1	Ca_Kabuli_Chr07	45634331	CC	TT	TT	INTRON	101493377	MLP-like protein 43

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58271_A_45634332	NC_021166.1	Ca_Kabuli_Chr07	45634332	TT	CC	CC	INTRON	101493377	MLP-like protein 43
SNP_58272_A_45634342	NC_021166.1	Ca_Kabuli_Chr07	45634342	AA	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58273_A_45634344	NC_021166.1	Ca_Kabuli_Chr07	45634344	CC	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58274_A_45634345	NC_021166.1	Ca_Kabuli_Chr07	45634345	AA	GG	GG	INTRON	101493377	MLP-like protein 43
SNP_58275_A_45635553	NC_021166.1	Ca_Kabuli_Chr07	45635553	TT	CC	CC	INTRON	101493377	MLP-like protein 43
SNP_58276_A_45651577	NC_021166.1	Ca_Kabuli_Chr07	45651577	AA	TT	TT	INTRON	101493377	MLP-like protein 43
SNP_58277_A_45668343	NC_021166.1	Ca_Kabuli_Chr07	45668343	CC	TT	TT	INTRON	101502298	Unknown function
SNP_58278_A_45676983	NC_021166.1	Ca_Kabuli_Chr07	45676983	CC	TT	TT	INTRON	101502298	Unknown function
SNP_58279_A_45678582	NC_021166.1	Ca_Kabuli_Chr07	45678582	CC	TT	TT	INTRON	101502298	Unknown function
SNP_58280_A_45689438	NC_021166.1	Ca_Kabuli_Chr07	45689438	AA	CC	CC	INTRON	101502298	Unknown function
SNP_58281_A_45738166	NC_021166.1	Ca_Kabuli_Chr07	45738166	AA	CC	CC	INTERGENIC		
SNP_58282_A_45750574	NC_021166.1	Ca_Kabuli_Chr07	45750574	TT	CC	CC	INTERGENIC		
SNP_58284_A_45857065	NC_021166.1	Ca_Kabuli_Chr07	45857065	GG	TT	TT	INTERGENIC		
SNP_58285_A_45857429	NC_021166.1	Ca_Kabuli_Chr07	45857429	TT	CC	CC	INTERGENIC		
SNP_58286_A_45898282	NC_021166.1	Ca_Kabuli_Chr07	45898282	AA	GG	GG	INTERGENIC		
SNP_58287_A_45914424	NC_021166.1	Ca_Kabuli_Chr07	45914424	TT	CC	CC	INTERGENIC		
SNP_58288_A_45922809	NC_021166.1	Ca_Kabuli_Chr07	45922809	TT	GG	GG	INTERGENIC		
SNP_58289_A_45925356	NC_021166.1	Ca_Kabuli_Chr07	45925356	AA	CC	CC	INTERGENIC		
SNP_58290_A_45925360	NC_021166.1	Ca_Kabuli_Chr07	45925360	TT	CC	CC	INTERGENIC		
SNP_58291_A_45925453	NC_021166.1	Ca_Kabuli_Chr07	45925453	AA	CC	CC	INTERGENIC		
SNP_58292_A_45925471	NC_021166.1	Ca_Kabuli_Chr07	45925471	CC	TT	TT	INTERGENIC		
SNP_58293_A_45925516	NC_021166.1	Ca_Kabuli_Chr07	45925516	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58294_A_45925519	NC_021166.1	Ca_Kabuli_Chr07	45925519	TT	CC	CC	INTERGENIC			
SNP_58295_A_45925524	NC_021166.1	Ca_Kabuli_Chr07	45925524	TT	CC	CC	INTERGENIC			
SNP_58296_A_45925533	NC_021166.1	Ca_Kabuli_Chr07	45925533	AA	CC	CC	INTERGENIC			
SNP_58297_A_45925534	NC_021166.1	Ca_Kabuli_Chr07	45925534	TT	CC	CC	INTERGENIC			
SNP_58298_A_45925564	NC_021166.1	Ca_Kabuli_Chr07	45925564	CC	TT	TT	INTERGENIC			
SNP_58299_A_45925573	NC_021166.1	Ca_Kabuli_Chr07	45925573	GG	AA	AA	INTERGENIC			
SNP_58300_A_45925588	NC_021166.1	Ca_Kabuli_Chr07	45925588	TT	AA	AA	INTERGENIC			
SNP_58301_A_45925612	NC_021166.1	Ca_Kabuli_Chr07	45925612	TT	CC	CC	INTERGENIC			
SNP_58302_A_45925631	NC_021166.1	Ca_Kabuli_Chr07	45925631	GG	CC	CC	INTERGENIC			
SNP_58303_A_45925639	NC_021166.1	Ca_Kabuli_Chr07	45925639	AA	GG	GG	INTERGENIC			
SNP_58304_A_45925656	NC_021166.1	Ca_Kabuli_Chr07	45925656	TT	AA	AA	INTERGENIC			
SNP_58305_A_45925809	NC_021166.1	Ca_Kabuli_Chr07	45925809	CC	TT	TT	INTERGENIC			
SNP_58306_A_45925813	NC_021166.1	Ca_Kabuli_Chr07	45925813	AA	TT	TT	INTERGENIC			
SNP_58307_A_45925899	NC_021166.1	Ca_Kabuli_Chr07	45925899	AA	GG	GG	INTERGENIC			
SNP_58308_A_45925929	NC_021166.1	Ca_Kabuli_Chr07	45925929	CC	TT	TT	INTERGENIC			
SNP_58309_A_45925950	NC_021166.1	Ca_Kabuli_Chr07	45925950	AA	GG	GG	INTERGENIC			
SNP_58310_A_45925962	NC_021166.1	Ca_Kabuli_Chr07	45925962	CC	TT	TT	INTERGENIC			
SNP_58311_A_45925979	NC_021166.1	Ca_Kabuli_Chr07	45925979	AA	GG	GG	INTERGENIC			
SNP_58312_A_45925986	NC_021166.1	Ca_Kabuli_Chr07	45925986	CC	TT	TT	INTERGENIC			
SNP_58313_A_45926002	NC_021166.1	Ca_Kabuli_Chr07	45926002	GG	AA	AA	INTERGENIC			
SNP_58314_A_45927848	NC_021166.1	Ca_Kabuli_Chr07	45927848	TT	CC	CC	INTERGENIC			
SNP_58315_A_45927884	NC_021166.1	Ca_Kabuli_Chr07	45927884	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58316_A_45927902	NC_021166.1	Ca_Kabuli_Chr07	45927902	GG	AA	AA	INTERGENIC		
SNP_58317_A_45927942	NC_021166.1	Ca_Kabuli_Chr07	45927942	CC	TT	TT	INTERGENIC		
SNP_58318_A_45927954	NC_021166.1	Ca_Kabuli_Chr07	45927954	AA	GG	GG	INTERGENIC		
SNP_58319_A_45927975	NC_021166.1	Ca_Kabuli_Chr07	45927975	CC	TT	TT	INTERGENIC		
SNP_58320_A_45927996	NC_021166.1	Ca_Kabuli_Chr07	45927996	TT	CC	CC	INTERGENIC		
SNP_58321_A_45928012	NC_021166.1	Ca_Kabuli_Chr07	45928012	TT	CC	CC	INTERGENIC		
SNP_58322_A_45928017	NC_021166.1	Ca_Kabuli_Chr07	45928017	TT	CC	CC	INTERGENIC		
SNP_58323_A_45928020	NC_021166.1	Ca_Kabuli_Chr07	45928020	AA	GG	GG	INTERGENIC		
SNP_58324_A_45931144	NC_021166.1	Ca_Kabuli_Chr07	45931144	TT	CC	CC	INTERGENIC		
SNP_58325_A_45933596	NC_021166.1	Ca_Kabuli_Chr07	45933596	AA	GG	GG	INTERGENIC		
SNP_58326_A_45944545	NC_021166.1	Ca_Kabuli_Chr07	45944545	TT	CC	CC	INTRON	101495183	guanine nucleotide exchange factor SPIKE 1
SNP_58327_A_45991233	NC_021166.1	Ca_Kabuli_Chr07	45991233	GG	TT	TT	INTERGENIC		
SNP_58328_A_45991472	NC_021166.1	Ca_Kabuli_Chr07	45991472	CC	TT	TT	INTERGENIC		
SNP_58329_A_45991660	NC_021166.1	Ca_Kabuli_Chr07	45991660	GG	TT	TT	INTERGENIC		
SNP_58330_A_45991731	NC_021166.1	Ca_Kabuli_Chr07	45991731	GG	AA	AA	INTERGENIC		
SNP_58331_A_46011999	NC_021166.1	Ca_Kabuli_Chr07	46011999	AA	TT	TT	INTERGENIC		
SNP_58332_A_46025779	NC_021166.1	Ca_Kabuli_Chr07	46025779	GG	AA	AA	INTERGENIC		
SNP_58333_A_46068157	NC_021166.1	Ca_Kabuli_Chr07	46068157	AA	GG	GG	INTERGENIC		
SNP_58334_A_46068158	NC_021166.1	Ca_Kabuli_Chr07	46068158	TT	AA	AA	INTERGENIC		
SNP_58336_A_46076195	NC_021166.1	Ca_Kabuli_Chr07	46076195	AA	GG	GG	INTERGENIC		
SNP_58337_A_46121295	NC_021166.1	Ca_Kabuli_Chr07	46121295	CC	GG	GG	INTERGENIC		
SNP_58338_A_46121304	NC_021166.1	Ca_Kabuli_Chr07	46121304	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58339_A_46121322	NC_021166.1	Ca_Kabuli_Chr07	46121322	AA	TT	TT	INTERGENIC		
SNP_58340_A_46121327	NC_021166.1	Ca_Kabuli_Chr07	46121327	TT	CC	CC	INTERGENIC		
SNP_58341_A_46121337	NC_021166.1	Ca_Kabuli_Chr07	46121337	AA	GG	GG	INTERGENIC		
SNP_58342_A_46121577	NC_021166.1	Ca_Kabuli_Chr07	46121577	AA	TT	TT	INTERGENIC		
SNP_58343_A_46127829	NC_021166.1	Ca_Kabuli_Chr07	46127829	GG	TT	TT	INTERGENIC		
SNP_58344_A_46127832	NC_021166.1	Ca_Kabuli_Chr07	46127832	CC	AA	TT	INTERGENIC		
SNP_58345_A_46127878	NC_021166.1	Ca_Kabuli_Chr07	46127878	AA	GG	GG	INTERGENIC		
SNP_58346_A_46127882	NC_021166.1	Ca_Kabuli_Chr07	46127882	AA	GG	GG	INTERGENIC		
SNP_58347_A_46127939	NC_021166.1	Ca_Kabuli_Chr07	46127939	TT	GG	GG	INTERGENIC		
SNP_58348_A_46127947	NC_021166.1	Ca_Kabuli_Chr07	46127947	TT	CC	CC	INTERGENIC		
SNP_58349_A_46127959	NC_021166.1	Ca_Kabuli_Chr07	46127959	TT	GG	GG	INTERGENIC		
SNP_58350_A_46128101	NC_021166.1	Ca_Kabuli_Chr07	46128101	AA	GG	GG	INTERGENIC		
SNP_58351_A_46128208	NC_021166.1	Ca_Kabuli_Chr07	46128208	TT	CC	CC	INTERGENIC		
SNP_58352_A_46132603	NC_021166.1	Ca_Kabuli_Chr07	46132603	TT	AA	AA	INTERGENIC		
SNP_58353_A_46132617	NC_021166.1	Ca_Kabuli_Chr07	46132617	AA	GG	GG	INTERGENIC		
SNP_58354_A_46178498	NC_021166.1	Ca_Kabuli_Chr07	46178498	AA	GG	GG	INTRON	101505731	protein OS-9 homolog
SNP_58355_A_46178595	NC_021166.1	Ca_Kabuli_Chr07	46178595	TT	CC	CC	INTRON	101505731	protein OS-9 homolog
SNP_58356_A_46178613	NC_021166.1	Ca_Kabuli_Chr07	46178613	AA	GG	GG	INTRON	101505731	protein OS-9 homolog
SNP_58357_A_46178628	NC_021166.1	Ca_Kabuli_Chr07	46178628	TT	CC	CC	INTRON	101505731	protein OS-9 homolog
SNP_58358_A_46178658	NC_021166.1	Ca_Kabuli_Chr07	46178658	CC	TT	TT	INTRON	101505731	protein OS-9 homolog
SNP_58359_A_46178667	NC_021166.1	Ca_Kabuli_Chr07	46178667	CC	TT	TT	INTRON	101505731	protein OS-9 homolog
SNP_58360_A_46178718	NC_021166.1	Ca_Kabuli_Chr07	46178718	AA	TT	TT	INTRON	101505731	protein OS-9 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58361_A_46185499	NC_021166.1	Ca_Kabuli_Chr07	46185499	CC	AA	AA	INTERGENIC		
SNP_58362_A_46185500	NC_021166.1	Ca_Kabuli_Chr07	46185500	AA	GG	GG	INTERGENIC		
SNP_58363_A_46185508	NC_021166.1	Ca_Kabuli_Chr07	46185508	TT	CC	CC	INTERGENIC		
SNP_58364_A_46185553	NC_021166.1	Ca_Kabuli_Chr07	46185553	AA	GG	GG	INTERGENIC		
SNP_58365_A_46185626	NC_021166.1	Ca_Kabuli_Chr07	46185626	GG	AA	AA	INTERGENIC		
SNP_58366_A_46185671	NC_021166.1	Ca_Kabuli_Chr07	46185671	TT	CC	CC	INTERGENIC		
SNP_58367_A_46190380	NC_021166.1	Ca_Kabuli_Chr07	46190380	AA	TT	TT	INTRON	101507776	uncharacterized LOC101507776
SNP_58368_A_46221230	NC_021166.1	Ca_Kabuli_Chr07	46221230	GG	AA	AA	INTERGENIC		
SNP_58369_A_46230644	NC_021166.1	Ca_Kabuli_Chr07	46230644	CC	TT	TT	INTERGENIC		
SNP_58370_A_46250185	NC_021166.1	Ca_Kabuli_Chr07	46250185	TT	CC	CC	INTERGENIC		
SNP_58371_A_46250320	NC_021166.1	Ca_Kabuli_Chr07	46250320	AA	GG	GG	INTERGENIC		
SNP_58372_A_46250347	NC_021166.1	Ca_Kabuli_Chr07	46250347	TT	CC	CC	INTERGENIC		
SNP_58373_A_46250432	NC_021166.1	Ca_Kabuli_Chr07	46250432	CC	TT	TT	INTERGENIC		
SNP_58374_A_46250435	NC_021166.1	Ca_Kabuli_Chr07	46250435	AA	GG	GG	INTERGENIC		
SNP_58375_A_46250467	NC_021166.1	Ca_Kabuli_Chr07	46250467	GG	AA	AA	INTERGENIC		
SNP_58376_A_46250577	NC_021166.1	Ca_Kabuli_Chr07	46250577	CC	TT	TT	INTERGENIC		
SNP_58377_A_46250665	NC_021166.1	Ca_Kabuli_Chr07	46250665	CC	TT	TT	INTERGENIC		
SNP_58378_A_46250749	NC_021166.1	Ca_Kabuli_Chr07	46250749	CC	TT	TT	INTERGENIC		
SNP_58379_A_46250754	NC_021166.1	Ca_Kabuli_Chr07	46250754	AA	TT	TT	INTERGENIC		
SNP_58380_A_46279431	NC_021166.1	Ca_Kabuli_Chr07	46279431	TT	CC	CC	INTERGENIC		
SNP_58381_A_46279994	NC_021166.1	Ca_Kabuli_Chr07	46279994	TT	CC	CC	INTERGENIC		
SNP_58382_A_46318620	NC_021166.1	Ca_Kabuli_Chr07	46318620	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58383_A_46331645	NC_021166.1	Ca_Kabuli_Chr07	46331645	TT	CC	CC	INTERGENIC			
SNP_58384_A_46331672	NC_021166.1	Ca_Kabuli_Chr07	46331672	TT	CC	CC	INTERGENIC			
SNP_58386_A_46331873	NC_021166.1	Ca_Kabuli_Chr07	46331873	TT	AA	AA	INTERGENIC			
SNP_58387_A_46331883	NC_021166.1	Ca_Kabuli_Chr07	46331883	TT	CC	CC	INTERGENIC			
SNP_58388_A_46332210	NC_021166.1	Ca_Kabuli_Chr07	46332210	AA	TT	TT	INTERGENIC			
SNP_58389_A_46332234	NC_021166.1	Ca_Kabuli_Chr07	46332234	TT	CC	CC	INTERGENIC			
SNP_58390_A_46332271	NC_021166.1	Ca_Kabuli_Chr07	46332271	GG	AA	AA	INTERGENIC			
SNP_58392_A_46332442	NC_021166.1	Ca_Kabuli_Chr07	46332442	CC	TT	TT	INTERGENIC			
SNP_58393_A_46332470	NC_021166.1	Ca_Kabuli_Chr07	46332470	AA	TT	TT	INTERGENIC			
SNP_58394_A_46332473	NC_021166.1	Ca_Kabuli_Chr07	46332473	TT	AA	AA	INTERGENIC			
SNP_58395_A_46332552	NC_021166.1	Ca_Kabuli_Chr07	46332552	CC	TT	TT	INTERGENIC			
SNP_58396_A_46337763	NC_021166.1	Ca_Kabuli_Chr07	46337763	GG	AA	AA	INTERGENIC			
SNP_58397_A_46344517	NC_021166.1	Ca_Kabuli_Chr07	46344517	CC	TT	TT	INTERGENIC			
SNP_58398_A_46355699	NC_021166.1	Ca_Kabuli_Chr07	46355699	GG	AA	AA	INTERGENIC			
SNP_58399_A_46361211	NC_021166.1	Ca_Kabuli_Chr07	46361211	AA	GG	GG	INTERGENIC			
SNP_58400_A_46363482	NC_021166.1	Ca_Kabuli_Chr07	46363482	CC	TT	TT	INTERGENIC			
SNP_58401_A_46366656	NC_021166.1	Ca_Kabuli_Chr07	46366656	CC	TT	TT	INTERGENIC			
SNP_58402_A_46366670	NC_021166.1	Ca_Kabuli_Chr07	46366670	CC	AA	AA	INTERGENIC			
SNP_58403_A_46366677	NC_021166.1	Ca_Kabuli_Chr07	46366677	TT	AA	AA	INTERGENIC			
SNP_58404_A_46382672	NC_021166.1	Ca_Kabuli_Chr07	46382672	TT	AA	AA	INTERGENIC			
SNP_58405_A_46396326	NC_021166.1	Ca_Kabuli_Chr07	46396326	CC	TT	TT	URR	101506054	floral homeotic protein APETALA 2-like	
SNP_58406_A_46403609	NC_021166.1	Ca_Kabuli_Chr07	46403609	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58407_A_46418098	NC_021166.1	Ca_Kabuli_Chr07	46418098	AA	GG	GG	INTERGENIC			
SNP_58408_A_46418492	NC_021166.1	Ca_Kabuli_Chr07	46418492	AA	GG	GG	INTERGENIC			
SNP_58409_A_46432080	NC_021166.1	Ca_Kabuli_Chr07	46432080	GG	AA	AA	INTRON		101509361	G-type lectin S-receptor-like serine/threonine-protein kinase CES101
SNP_58410_A_46453371	NC_021166.1	Ca_Kabuli_Chr07	46453371	AA	CC	CC	INTERGENIC			
SNP_58411_A_46453790	NC_021166.1	Ca_Kabuli_Chr07	46453790	GG	AA	AA	INTERGENIC			
SNP_58413_A_46478835	NC_021166.1	Ca_Kabuli_Chr07	46478835	GG	TT	TT	INTERGENIC			
SNP_58414_A_46478932	NC_021166.1	Ca_Kabuli_Chr07	46478932	CC	AA	AA	INTERGENIC			
SNP_58415_A_46479493	NC_021166.1	Ca_Kabuli_Chr07	46479493	CC	TT	TT	INTERGENIC			
SNP_58416_A_46479536	NC_021166.1	Ca_Kabuli_Chr07	46479536	GG	TT	TT	INTERGENIC			
SNP_58417_A_46491605	NC_021166.1	Ca_Kabuli_Chr07	46491605	AA	CC	CC	INTERGENIC			
SNP_58418_A_46491612	NC_021166.1	Ca_Kabuli_Chr07	46491612	CC	TT	TT	INTERGENIC			
SNP_58419_A_46505538	NC_021166.1	Ca_Kabuli_Chr07	46505538	CC	AA	AA	INTERGENIC			
SNP_58420_A_46519378	NC_021166.1	Ca_Kabuli_Chr07	46519378	TT	CC	CC	INTERGENIC			
SNP_58421_A_46528126	NC_021166.1	Ca_Kabuli_Chr07	46528126	AA	CC	CC	INTERGENIC			
SNP_58422_A_46537728	NC_021166.1	Ca_Kabuli_Chr07	46537728	AA	TT	TT	INTERGENIC			
SNP_58423_A_46545195	NC_021166.1	Ca_Kabuli_Chr07	46545195	CC	AA	AA	INTERGENIC			
SNP_58424_A_46545238	NC_021166.1	Ca_Kabuli_Chr07	46545238	CC	TT	TT	INTERGENIC			
SNP_58425_A_46545255	NC_021166.1	Ca_Kabuli_Chr07	46545255	GG	AA	AA	INTERGENIC			
SNP_58426_A_46549418	NC_021166.1	Ca_Kabuli_Chr07	46549418	GG	TT	TT	INTERGENIC			
SNP_58427_A_46549717	NC_021166.1	Ca_Kabuli_Chr07	46549717	TT	CC	CC	INTERGENIC			
SNP_58428_A_46551460	NC_021166.1	Ca_Kabuli_Chr07	46551460	TT	CC	CC	INTERGENIC			
SNP_58430_A_46569958	NC_021166.1	Ca_Kabuli_Chr07	46569958	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58431_A_46569969	NC_021166.1	Ca_Kabuli_Chr07	46569969	AA	CC	CC	INTERGENIC			
SNP_58432_A_46570006	NC_021166.1	Ca_Kabuli_Chr07	46570006	AA	GG	GG	INTERGENIC			
SNP_58433_A_46570181	NC_021166.1	Ca_Kabuli_Chr07	46570181	AA	GG	GG	INTERGENIC			
SNP_58434_A_46570251	NC_021166.1	Ca_Kabuli_Chr07	46570251	CC	TT	TT	INTERGENIC			
SNP_58435_A_46570390	NC_021166.1	Ca_Kabuli_Chr07	46570390	CC	TT	TT	INTERGENIC			
SNP_58436_A_46593660	NC_021166.1	Ca_Kabuli_Chr07	46593660	CC	AA	AA	INTERGENIC			
SNP_58437_A_46593667	NC_021166.1	Ca_Kabuli_Chr07	46593667	CC	GG	GG	INTERGENIC			
SNP_58438_A_46593669	NC_021166.1	Ca_Kabuli_Chr07	46593669	CC	TT	TT	INTERGENIC			
SNP_58439_A_46606903	NC_021166.1	Ca_Kabuli_Chr07	46606903	TT	CC	CC	INTERGENIC			
SNP_58440_A_46609182	NC_021166.1	Ca_Kabuli_Chr07	46609182	TT	CC	CC	INTERGENIC			
SNP_58441_A_46626297	NC_021166.1	Ca_Kabuli_Chr07	46626297	AA	GG	GG	INTRON	101510323	Unknown function	
SNP_58442_A_46657649	NC_021166.1	Ca_Kabuli_Chr07	46657649	AA	TT	TT	INTERGENIC			
SNP_58443_A_46659557	NC_021166.1	Ca_Kabuli_Chr07	46659557	TT	CC	CC	INTERGENIC			
SNP_58444_A_46732220	NC_021166.1	Ca_Kabuli_Chr07	46732220	CC	TT	TT	INTERGENIC			
SNP_58445_A_46751925	NC_021166.1	Ca_Kabuli_Chr07	46751925	CC	TT	TT	INTERGENIC			
SNP_58446_A_46782382	NC_021166.1	Ca_Kabuli_Chr07	46782382	TT	GG	GG	INTERGENIC			
SNP_58447_A_46831178	NC_021166.1	Ca_Kabuli_Chr07	46831178	GG	AA	AA	INTERGENIC			
SNP_58448_A_46834901	NC_021166.1	Ca_Kabuli_Chr07	46834901	TT	AA	AA	INTERGENIC			
SNP_58449_A_46863914	NC_021166.1	Ca_Kabuli_Chr07	46863914	CC	TT	TT	INTERGENIC			
SNP_58451_A_46885895	NC_021166.1	Ca_Kabuli_Chr07	46885895	AA	TT	TT	INTRON	101514207	uncharacterized LOC101514207	
SNP_58452_A_46885896	NC_021166.1	Ca_Kabuli_Chr07	46885896	AA	CC	CC	INTRON	101514207	uncharacterized LOC101514207	
SNP_58453_A_46885911	NC_021166.1	Ca_Kabuli_Chr07	46885911	TT	CC	CC	INTRON	101514207	uncharacterized LOC101514207	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58454_A_46885912	NC_021166.1	Ca_Kabuli_Chr07	46885912	TT	CC	CC	INTRON	101514207	uncharacterized LOC101514207
SNP_58455_A_46885931	NC_021166.1	Ca_Kabuli_Chr07	46885931	GG	CC	CC	INTRON	101514207	uncharacterized LOC101514207
SNP_58456_A_46886007	NC_021166.1	Ca_Kabuli_Chr07	46886007	TT	GG	GG	INTRON	101514207	uncharacterized LOC101514207
SNP_58457_A_46886062	NC_021166.1	Ca_Kabuli_Chr07	46886062	CC	AA	AA	INTRON	101514207	uncharacterized LOC101514207
SNP_58458_A_46886996	NC_021166.1	Ca_Kabuli_Chr07	46886996	AA	GG	GG	INTRON	101514207	uncharacterized LOC101514207
SNP_58459_A_46960411	NC_021166.1	Ca_Kabuli_Chr07	46960411	AA	GG	GG	INTERGENIC		
SNP_58460_A_46960491	NC_021166.1	Ca_Kabuli_Chr07	46960491	GG	AA	AA	INTERGENIC		
SNP_58461_A_46960516	NC_021166.1	Ca_Kabuli_Chr07	46960516	TT	CC	CC	INTERGENIC		
SNP_58462_A_46960534	NC_021166.1	Ca_Kabuli_Chr07	46960534	TT	CC	CC	INTERGENIC		
SNP_58463_A_46960543	NC_021166.1	Ca_Kabuli_Chr07	46960543	CC	TT	TT	INTERGENIC		
SNP_58464_A_46960558	NC_021166.1	Ca_Kabuli_Chr07	46960558	TT	AA	AA	INTERGENIC		
SNP_58465_A_46970768	NC_021166.1	Ca_Kabuli_Chr07	46970768	GG	TT	TT	INTERGENIC		
SNP_58466_A_46986166	NC_021166.1	Ca_Kabuli_Chr07	46986166	CC	TT	TT	INTERGENIC		
SNP_58467_A_46986226	NC_021166.1	Ca_Kabuli_Chr07	46986226	TT	CC	CC	INTERGENIC		
SNP_58468_A_46990884	NC_021166.1	Ca_Kabuli_Chr07	46990884	TT	CC	CC	INTERGENIC		
SNP_58469_A_46996775	NC_021166.1	Ca_Kabuli_Chr07	46996775	CC	GG	GG	INTERGENIC		
SNP_58470_A_47032278	NC_021166.1	Ca_Kabuli_Chr07	47032278	CC	AA	AA	INTERGENIC		
SNP_58471_A_47035495	NC_021166.1	Ca_Kabuli_Chr07	47035495	GG	AA	AA	INTERGENIC		
SNP_58472_A_47058121	NC_021166.1	Ca_Kabuli_Chr07	47058121	CC	GG	GG	INTERGENIC		
SNP_58473_A_47063867	NC_021166.1	Ca_Kabuli_Chr07	47063867	TT	AA	AA	INTERGENIC		
SNP_58474_A_47083022	NC_021166.1	Ca_Kabuli_Chr07	47083022	AA	GG	GG	INTERGENIC		
SNP_58475_A_47083086	NC_021166.1	Ca_Kabuli_Chr07	47083086	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58476_A_47083092	NC_021166.1	Ca_Kabuli_Chr07	47083092	GG	AA	AA	INTERGENIC		
SNP_58477_A_47083108	NC_021166.1	Ca_Kabuli_Chr07	47083108	AA	GG	GG	INTERGENIC		
SNP_58479_A_47083390	NC_021166.1	Ca_Kabuli_Chr07	47083390	GG	CC	CC	INTERGENIC		
SNP_58480_A_47083487	NC_021166.1	Ca_Kabuli_Chr07	47083487	CC	TT	TT	INTERGENIC		
SNP_58481_A_47084957	NC_021166.1	Ca_Kabuli_Chr07	47084957	GG	AA	AA	INTERGENIC		
SNP_58482_A_47091326	NC_021166.1	Ca_Kabuli_Chr07	47091326	TT	GG	GG	NON_SYNONYMOUS_CODING	101493475	mucin-2-like
SNP_58483_A_47091333	NC_021166.1	Ca_Kabuli_Chr07	47091333	AA	GG	GG	NON_SYNONYMOUS_CODING	101493475	mucin-2-like
SNP_58484_A_47091491	NC_021166.1	Ca_Kabuli_Chr07	47091491	GG	AA	AA	NON_SYNONYMOUS_CODING	101493475	mucin-2-like
SNP_58485_A_47093349	NC_021166.1	Ca_Kabuli_Chr07	47093349	GG	AA	AA	URR	101493475	mucin-2-like
SNP_58486_A_47093385	NC_021166.1	Ca_Kabuli_Chr07	47093385	TT	GG	GG	URR	101493475	mucin-2-like
SNP_58487_A_47093437	NC_021166.1	Ca_Kabuli_Chr07	47093437	TT	GG	GG	URR	101493475	mucin-2-like
SNP_58488_A_47093495	NC_021166.1	Ca_Kabuli_Chr07	47093495	CC	TT	TT	URR	101493475	mucin-2-like
SNP_58489_A_47093534	NC_021166.1	Ca_Kabuli_Chr07	47093534	GG	AA	AA	URR	101493475	mucin-2-like
SNP_58490_A_47093536	NC_021166.1	Ca_Kabuli_Chr07	47093536	TT	AA	AA	URR	101493475	mucin-2-like
SNP_58491_A_47093632	NC_021166.1	Ca_Kabuli_Chr07	47093632	GG	AA	AA	URR	101493475	mucin-2-like
SNP_58492_A_47093668	NC_021166.1	Ca_Kabuli_Chr07	47093668	GG	CC	CC	URR	101493475	mucin-2-like
SNP_58493_A_47093786	NC_021166.1	Ca_Kabuli_Chr07	47093786	TT	CC	CC	URR	101493475	mucin-2-like
SNP_58494_A_47093794	NC_021166.1	Ca_Kabuli_Chr07	47093794	AA	GG	GG	URR	101493475	mucin-2-like
SNP_58495_A_47093816	NC_021166.1	Ca_Kabuli_Chr07	47093816	TT	CC	CC	URR	101493475	mucin-2-like
SNP_58496_A_47108242	NC_021166.1	Ca_Kabuli_Chr07	47108242	GG	TT	TT	INTERGENIC		
SNP_58497_A_47108311	NC_021166.1	Ca_Kabuli_Chr07	47108311	TT	CC	CC	INTERGENIC		
SNP_58498_A_47108344	NC_021166.1	Ca_Kabuli_Chr07	47108344	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58499_A_47108380	NC_021166.1	Ca_Kabuli_Chr07	47108380	GG	AA	AA	INTERGENIC		
SNP_58500_A_47108405	NC_021166.1	Ca_Kabuli_Chr07	47108405	TT	GG	GG	INTERGENIC		
SNP_58501_A_47108413	NC_021166.1	Ca_Kabuli_Chr07	47108413	TT	CC	CC	INTERGENIC		
SNP_58502_A_47108647	NC_021166.1	Ca_Kabuli_Chr07	47108647	TT	AA	AA	INTERGENIC		
SNP_58503_A_47108685	NC_021166.1	Ca_Kabuli_Chr07	47108685	GG	CC	CC	INTERGENIC		
SNP_58504_A_47124239	NC_021166.1	Ca_Kabuli_Chr07	47124239	AA	GG	GG	INTERGENIC		
SNP_58506_A_47139065	NC_021166.1	Ca_Kabuli_Chr07	47139065	GG	AA	AA	INTERGENIC		
SNP_58507_A_47182888	NC_021166.1	Ca_Kabuli_Chr07	47182888	GG	AA	AA	INTERGENIC		
SNP_58508_A_47182894	NC_021166.1	Ca_Kabuli_Chr07	47182894	GG	TT	TT	INTERGENIC		
SNP_58509_A_47182926	NC_021166.1	Ca_Kabuli_Chr07	47182926	TT	GG	GG	INTERGENIC		
SNP_58510_A_47182947	NC_021166.1	Ca_Kabuli_Chr07	47182947	CC	TT	TT	INTERGENIC		
SNP_58511_A_47182949	NC_021166.1	Ca_Kabuli_Chr07	47182949	TT	GG	GG	INTERGENIC		
SNP_58512_A_47186785	NC_021166.1	Ca_Kabuli_Chr07	47186785	AA	GG	GG	INTERGENIC		
SNP_58513_A_47196401	NC_021166.1	Ca_Kabuli_Chr07	47196401	AA	TT	TT	INTRON	101488581	sucrose transport protein SUC3
SNP_58514_A_47256480	NC_021166.1	Ca_Kabuli_Chr07	47256480	AA	GG	GG	INTERGENIC		
SNP_58515_A_47256497	NC_021166.1	Ca_Kabuli_Chr07	47256497	TT	CC	CC	INTERGENIC		
SNP_58516_A_47281183	NC_021166.1	Ca_Kabuli_Chr07	47281183	TT	CC	CC	INTERGENIC		
SNP_58517_A_47282739	NC_021166.1	Ca_Kabuli_Chr07	47282739	AA	TT	TT	INTERGENIC		
SNP_58518_A_47282953	NC_021166.1	Ca_Kabuli_Chr07	47282953	GG	AA	AA	INTERGENIC		
SNP_58519_A_47283571	NC_021166.1	Ca_Kabuli_Chr07	47283571	GG	AA	AA	INTERGENIC		
SNP_58520_A_47283671	NC_021166.1	Ca_Kabuli_Chr07	47283671	GG	TT	TT	INTERGENIC		
SNP_58521_A_47283794	NC_021166.1	Ca_Kabuli_Chr07	47283794	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58522_A_47284816	NC_021166.1	Ca_Kabuli_Chr07	47284816	CC	TT	TT	INTERGENIC		
SNP_58523_A_47295047	NC_021166.1	Ca_Kabuli_Chr07	47295047	AA	GG	GG	INTERGENIC		
SNP_58524_A_47295083	NC_021166.1	Ca_Kabuli_Chr07	47295083	CC	TT	TT	INTERGENIC		
SNP_58525_A_47295143	NC_021166.1	Ca_Kabuli_Chr07	47295143	CC	GG	GG	INTERGENIC		
SNP_58527_A_47295452	NC_021166.1	Ca_Kabuli_Chr07	47295452	GG	AA	AA	INTERGENIC		
SNP_58528_A_47324945	NC_021166.1	Ca_Kabuli_Chr07	47324945	AA	GG	GG	INTERGENIC		
SNP_58529_A_47324967	NC_021166.1	Ca_Kabuli_Chr07	47324967	AA	GG	GG	INTERGENIC		
SNP_58530_A_47324968	NC_021166.1	Ca_Kabuli_Chr07	47324968	GG	AA	AA	INTERGENIC		
SNP_58531_A_47324975	NC_021166.1	Ca_Kabuli_Chr07	47324975	AA	TT	TT	INTERGENIC		
SNP_58532_A_47325273	NC_021166.1	Ca_Kabuli_Chr07	47325273	AA	GG	GG	INTERGENIC		
SNP_58533_A_47325336	NC_021166.1	Ca_Kabuli_Chr07	47325336	TT	CC	CC	INTERGENIC		
SNP_58534_A_47325349	NC_021166.1	Ca_Kabuli_Chr07	47325349	CC	AA	AA	INTERGENIC		
SNP_58535_A_47325350	NC_021166.1	Ca_Kabuli_Chr07	47325350	AA	GG	GG	INTERGENIC		
SNP_58536_A_47325355	NC_021166.1	Ca_Kabuli_Chr07	47325355	AA	GG	GG	INTERGENIC		
SNP_58537_A_47327581	NC_021166.1	Ca_Kabuli_Chr07	47327581	CC	AA	AA	INTERGENIC		
SNP_58538_A_47327707	NC_021166.1	Ca_Kabuli_Chr07	47327707	GG	TT	TT	INTERGENIC		
SNP_58539_A_47327765	NC_021166.1	Ca_Kabuli_Chr07	47327765	TT	CC	CC	INTERGENIC		
SNP_58540_A_47327815	NC_021166.1	Ca_Kabuli_Chr07	47327815	TT	AA	AA	INTERGENIC		
SNP_58541_A_47346794	NC_021166.1	Ca_Kabuli_Chr07	47346794	CC	GG	GG	INTERGENIC		
SNP_58542_A_47346814	NC_021166.1	Ca_Kabuli_Chr07	47346814	AA	GG	GG	INTERGENIC		
SNP_58543_A_47359544	NC_021166.1	Ca_Kabuli_Chr07	47359544	GG	AA	AA	DRR	101495724	DNA ligase 1-like
SNP_58545_A_47364484	NC_021166.1	Ca_Kabuli_Chr07	47364484	AA	TT	TT	INTRON	101495724	DNA ligase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58546_A_47384569	NC_021166.1	Ca_Kabuli_Chr07	47384569	CC	TT	TT	INTERGENIC		
SNP_58548_A_47478804	NC_021166.1	Ca_Kabuli_Chr07	47478804	GG	AA	AA	INTERGENIC		
SNP_58549_A_47483689	NC_021166.1	Ca_Kabuli_Chr07	47483689	TT	CC	CC	INTERGENIC		
SNP_58550_A_47484047	NC_021166.1	Ca_Kabuli_Chr07	47484047	AA	GG	GG	INTERGENIC		
SNP_58551_A_47484507	NC_021166.1	Ca_Kabuli_Chr07	47484507	AA	TT	TT	INTERGENIC		
SNP_58552_A_47490368	NC_021166.1	Ca_Kabuli_Chr07	47490368	TT	CC	CC	INTERGENIC		
SNP_58553_A_47495297	NC_021166.1	Ca_Kabuli_Chr07	47495297	AA	TT	TT	DRR	101490012	uncharacterized LOC101490012
SNP_58554_A_47504265	NC_021166.1	Ca_Kabuli_Chr07	47504265	AA	GG	GG	INTERGENIC		
SNP_58555_A_47504299	NC_021166.1	Ca_Kabuli_Chr07	47504299	TT	CC	CC	INTERGENIC		
SNP_58556_A_47504564	NC_021166.1	Ca_Kabuli_Chr07	47504564	TT	CC	CC	INTERGENIC		
SNP_58557_A_47504607	NC_021166.1	Ca_Kabuli_Chr07	47504607	AA	GG	GG	INTERGENIC		
SNP_58558_A_47504632	NC_021166.1	Ca_Kabuli_Chr07	47504632	AA	GG	GG	INTERGENIC		
SNP_58559_A_47529326	NC_021166.1	Ca_Kabuli_Chr07	47529326	CC	TT	TT	INTERGENIC		
SNP_58560_A_47529328	NC_021166.1	Ca_Kabuli_Chr07	47529328	GG	AA	AA	INTERGENIC		
SNP_58561_A_47529365	NC_021166.1	Ca_Kabuli_Chr07	47529365	TT	AA	AA	INTERGENIC		
SNP_58562_A_47556616	NC_021166.1	Ca_Kabuli_Chr07	47556616	TT	CC	CC	INTRON	101490547	ubiquitin-conjugating enzyme E2 2
SNP_58563_A_47577551	NC_021166.1	Ca_Kabuli_Chr07	47577551	GG	TT	TT	DRR	101497022	probable WRKY transcription factor 72
SNP_58564_A_47577560	NC_021166.1	Ca_Kabuli_Chr07	47577560	CC	TT	TT	DRR	101497022	probable WRKY transcription factor 72
SNP_58565_A_47577584	NC_021166.1	Ca_Kabuli_Chr07	47577584	TT	GG	GG	DRR	101497022	probable WRKY transcription factor 72
SNP_58566_A_47604164	NC_021166.1	Ca_Kabuli_Chr07	47604164	GG	AA	AA	INTERGENIC		
SNP_58567_A_47604449	NC_021166.1	Ca_Kabuli_Chr07	47604449	TT	CC	CC	INTERGENIC		
SNP_58568_A_47604678	NC_021166.1	Ca_Kabuli_Chr07	47604678	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58569_A_47604703	NC_021166.1	Ca_Kabuli_Chr07	47604703	AA	GG	GG	INTERGENIC		
SNP_58570_A_47605302	NC_021166.1	Ca_Kabuli_Chr07	47605302	CC	TT	TT	INTERGENIC		
SNP_58571_A_47605662	NC_021166.1	Ca_Kabuli_Chr07	47605662	AA	GG	GG	INTERGENIC		
SNP_58572_A_47652725	NC_021166.1	Ca_Kabuli_Chr07	47652725	TT	AA	AA	INTERGENIC		
SNP_58573_A_47659294	NC_021166.1	Ca_Kabuli_Chr07	47659294	GG	AA	AA	INTERGENIC		
SNP_58574_A_47714411	NC_021166.1	Ca_Kabuli_Chr07	47714411	TT	CC	CC	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58575_A_47714429	NC_021166.1	Ca_Kabuli_Chr07	47714429	AA	GG	GG	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58576_A_47714436	NC_021166.1	Ca_Kabuli_Chr07	47714436	TT	CC	CC	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58577_A_47714814	NC_021166.1	Ca_Kabuli_Chr07	47714814	TT	GG	GG	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58578_A_47714862	NC_021166.1	Ca_Kabuli_Chr07	47714862	AA	GG	GG	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58579_A_47715060	NC_021166.1	Ca_Kabuli_Chr07	47715060	AA	CC	CC	DRR	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58580_A_47715413	NC_021166.1	Ca_Kabuli_Chr07	47715413	AA	CC	CC	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58581_A_47715572	NC_021166.1	Ca_Kabuli_Chr07	47715572	GG	CC	CC	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58582_A_47715601	NC_021166.1	Ca_Kabuli_Chr07	47715601	AA	GG	GG	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58583_A_47715636	NC_021166.1	Ca_Kabuli_Chr07	47715636	TT	GG	GG	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58584_A_47718194	NC_021166.1	Ca_Kabuli_Chr07	47718194	TT	AA	AA	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58585_A_47718330	NC_021166.1	Ca_Kabuli_Chr07	47718330	AA	GG	GG	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58586_A_47718345	NC_021166.1	Ca_Kabuli_Chr07	47718345	TT	AA	AA	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58587_A_47718346	NC_021166.1	Ca_Kabuli_Chr07	47718346	TT	CC	CC	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58588_A_47718373	NC_021166.1	Ca_Kabuli_Chr07	47718373	CC	TT	TT	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58589_A_47718396	NC_021166.1	Ca_Kabuli_Chr07	47718396	GG	AA	AA	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58590_A_47718416	NC_021166.1	Ca_Kabuli_Chr07	47718416	AA	CC	CC	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58591_A_47718441	NC_021166.1	Ca_Kabuli_Chr07	47718441	AA	GG	GG	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58592_A_47718471	NC_021166.1	Ca_Kabuli_Chr07	47718471	TT	CC	CC	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58593_A_47718503	NC_021166.1	Ca_Kabuli_Chr07	47718503	TT	GG	GG	INTRON	101501968	protein STRICTOSIDINE SYNTHASE-LIKE 12-like
SNP_58594_A_47772358	NC_021166.1	Ca_Kabuli_Chr07	47772358	AA	GG	GG	INTERGENIC		
SNP_58595_A_47772364	NC_021166.1	Ca_Kabuli_Chr07	47772364	GG	AA	AA	INTERGENIC		
SNP_58596_A_47772759	NC_021166.1	Ca_Kabuli_Chr07	47772759	CC	TT	TT	INTERGENIC		
SNP_58597_A_47778084	NC_021166.1	Ca_Kabuli_Chr07	47778084	GG	AA	AA	INTERGENIC		
SNP_58598_A_47778369	NC_021166.1	Ca_Kabuli_Chr07	47778369	TT	GG	GG	INTERGENIC		
SNP_58599_A_47778370	NC_021166.1	Ca_Kabuli_Chr07	47778370	GG	TT	TT	INTERGENIC		
SNP_58600_A_47792642	NC_021166.1	Ca_Kabuli_Chr07	47792642	GG	AA	AA	INTERGENIC		
SNP_58601_A_47794875	NC_021166.1	Ca_Kabuli_Chr07	47794875	TT	CC	CC	INTERGENIC		
SNP_58602_A_47819296	NC_021166.1	Ca_Kabuli_Chr07	47819296	CC	TT	TT	INTERGENIC		
SNP_58603_A_47822836	NC_021166.1	Ca_Kabuli_Chr07	47822836	TT	CC	CC	INTERGENIC		
SNP_58604_A_47829963	NC_021166.1	Ca_Kabuli_Chr07	47829963	AA	CC	CC	INTERGENIC		
SNP_58605_A_47829965	NC_021166.1	Ca_Kabuli_Chr07	47829965	AA	TT	TT	INTERGENIC		
SNP_58606_A_47855481	NC_021166.1	Ca_Kabuli_Chr07	47855481	AA	GG	GG	INTERGENIC		
SNP_58607_A_47855484	NC_021166.1	Ca_Kabuli_Chr07	47855484	AA	GG	GG	INTERGENIC		
SNP_58608_A_47858893	NC_021166.1	Ca_Kabuli_Chr07	47858893	TT	CC	CC	INTERGENIC		
SNP_58609_A_47865430	NC_021166.1	Ca_Kabuli_Chr07	47865430	TT	CC	CC	INTERGENIC		
SNP_58610_A_47865920	NC_021166.1	Ca_Kabuli_Chr07	47865920	AA	GG	GG	INTERGENIC		
SNP_58611_A_47865935	NC_021166.1	Ca_Kabuli_Chr07	47865935	AA	GG	GG	INTERGENIC		
SNP_58612_A_47901857	NC_021166.1	Ca_Kabuli_Chr07	47901857	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58613_A_47909472	NC_021166.1	Ca_Kabuli_Chr07	47909472	TT	CC	CC	INTERGENIC			
SNP_58614_A_47909568	NC_021166.1	Ca_Kabuli_Chr07	47909568	CC	TT	TT	INTERGENIC			
SNP_58615_A_47909614	NC_021166.1	Ca_Kabuli_Chr07	47909614	AA	GG	GG	INTERGENIC			
SNP_58616_A_47909638	NC_021166.1	Ca_Kabuli_Chr07	47909638	AA	GG	GG	INTERGENIC			
SNP_58617_A_47909668	NC_021166.1	Ca_Kabuli_Chr07	47909668	CC	TT	TT	INTERGENIC			
SNP_58618_A_47909910	NC_021166.1	Ca_Kabuli_Chr07	47909910	TT	CC	CC	INTERGENIC			
SNP_58619_A_47910018	NC_021166.1	Ca_Kabuli_Chr07	47910018	TT	CC	CC	INTERGENIC			
SNP_58620_A_47921057	NC_021166.1	Ca_Kabuli_Chr07	47921057	CC	AA	AA	INTERGENIC			
SNP_58621_A_47942098	NC_021166.1	Ca_Kabuli_Chr07	47942098	AA	GG	GG	INTERGENIC			
SNP_58622_A_47942113	NC_021166.1	Ca_Kabuli_Chr07	47942113	GG	AA	AA	INTERGENIC			
SNP_58623_A_47942150	NC_021166.1	Ca_Kabuli_Chr07	47942150	GG	AA	AA	INTERGENIC			
SNP_58624_A_47942508	NC_021166.1	Ca_Kabuli_Chr07	47942508	TT	CC	CC	INTERGENIC			
SNP_58625_A_47954097	NC_021166.1	Ca_Kabuli_Chr07	47954097	TT	GG	GG	INTERGENIC			
SNP_58626_A_47959494	NC_021166.1	Ca_Kabuli_Chr07	47959494	TT	GG	GG	INTERGENIC			
SNP_58627_A_47959508	NC_021166.1	Ca_Kabuli_Chr07	47959508	TT	CC	CC	INTERGENIC			
SNP_58628_A_47982624	NC_021166.1	Ca_Kabuli_Chr07	47982624	AA	TT	TT	INTERGENIC			
SNP_58629_A_48017136	NC_021166.1	Ca_Kabuli_Chr07	48017136	GG	AA	AA	INTERGENIC			
SNP_58630_A_48067138	NC_021166.1	Ca_Kabuli_Chr07	48067138	AA	GG	GG	INTERGENIC			
SNP_58631_A_48067144	NC_021166.1	Ca_Kabuli_Chr07	48067144	TT	CC	CC	INTERGENIC			
SNP_58632_A_48073468	NC_021166.1	Ca_Kabuli_Chr07	48073468	CC	TT	TT	INTERGENIC			
SNP_58634_A_48141073	NC_021166.1	Ca_Kabuli_Chr07	48141073	TT	CC	CC	INTERGENIC			
SNP_58635_A_48141483	NC_021166.1	Ca_Kabuli_Chr07	48141483	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58636_A_48141508	NC_021166.1	Ca_Kabuli_Chr07	48141508	TT	AA	AA	INTERGENIC		
SNP_58637_A_48145043	NC_021166.1	Ca_Kabuli_Chr07	48145043	GG	CC	CC	INTERGENIC		
SNP_58638_A_48145082	NC_021166.1	Ca_Kabuli_Chr07	48145082	AA	GG	GG	INTERGENIC		
SNP_58639_A_48186840	NC_021166.1	Ca_Kabuli_Chr07	48186840	GG	AA	AA	INTERGENIC		
SNP_58640_A_48204281	NC_021166.1	Ca_Kabuli_Chr07	48204281	CC	TT	TT	INTERGENIC		
SNP_58642_A_48210936	NC_021166.1	Ca_Kabuli_Chr07	48210936	CC	GG	GG	INTRON	101500707	protein SAWADEE HOMEODOMAIN HOMOLOG 2
SNP_58644_A_48245987	NC_021166.1	Ca_Kabuli_Chr07	48245987	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58645_A_48246061	NC_021166.1	Ca_Kabuli_Chr07	48246061	CC	TT	TT	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58646_A_48246077	NC_021166.1	Ca_Kabuli_Chr07	48246077	CC	AA	AA	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58647_A_48246106	NC_021166.1	Ca_Kabuli_Chr07	48246106	CC	TT	TT	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58648_A_48246118	NC_021166.1	Ca_Kabuli_Chr07	48246118	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58649_A_48246119	NC_021166.1	Ca_Kabuli_Chr07	48246119	AA	GG	GG	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58650_A_48246126	NC_021166.1	Ca_Kabuli_Chr07	48246126	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58651_A_48246230	NC_021166.1	Ca_Kabuli_Chr07	48246230	GG	AA	AA	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58652_A_48246269	NC_021166.1	Ca_Kabuli_Chr07	48246269	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58653_A_48246271	NC_021166.1	Ca_Kabuli_Chr07	48246271	GG	AA	AA	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58654_A_48246297	NC_021166.1	Ca_Kabuli_Chr07	48246297	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58655_A_48246326	NC_021166.1	Ca_Kabuli_Chr07	48246326	AA	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58656_A_48246382	NC_021166.1	Ca_Kabuli_Chr07	48246382	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58657_A_48246416	NC_021166.1	Ca_Kabuli_Chr07	48246416	AA	GG	GG	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58658_A_48246441	NC_021166.1	Ca_Kabuli_Chr07	48246441	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58659_A_48246496	NC_021166.1	Ca_Kabuli_Chr07	48246496	TT	CC	CC	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58660_A_48250012	NC_021166.1	Ca_Kabuli_Chr07	48250012	AA	GG	GG	INTRON	101501336	uncharacterized exonuclease domain-containing protein At3g15140
SNP_58661_A_48280007	NC_021166.1	Ca_Kabuli_Chr07	48280007	CC	TT	TT	INTERGENIC		
SNP_58662_A_48309167	NC_021166.1	Ca_Kabuli_Chr07	48309167	GG	AA	AA	INTERGENIC		
SNP_58663_A_48311570	NC_021166.1	Ca_Kabuli_Chr07	48311570	AA	GG	GG	INTERGENIC		
SNP_58665_A_48312060	NC_021166.1	Ca_Kabuli_Chr07	48312060	GG	TT	TT	INTERGENIC		
SNP_58666_A_48312062	NC_021166.1	Ca_Kabuli_Chr07	48312062	TT	GG	GG	INTERGENIC		
SNP_58667_A_48312156	NC_021166.1	Ca_Kabuli_Chr07	48312156	CC	AA	AA	INTERGENIC		
SNP_58668_A_48312532	NC_021166.1	Ca_Kabuli_Chr07	48312532	TT	GG	GG	INTERGENIC		
SNP_58669_A_48312544	NC_021166.1	Ca_Kabuli_Chr07	48312544	AA	GG	GG	INTERGENIC		
SNP_58670_A_48312576	NC_021166.1	Ca_Kabuli_Chr07	48312576	TT	CC	CC	INTERGENIC		
SNP_58671_A_48312601	NC_021166.1	Ca_Kabuli_Chr07	48312601	AA	GG	GG	INTERGENIC		
SNP_58673_A_48312688	NC_021166.1	Ca_Kabuli_Chr07	48312688	TT	GG	GG	INTERGENIC		
SNP_58674_A_48312689	NC_021166.1	Ca_Kabuli_Chr07	48312689	GG	AA	AA	INTERGENIC		
SNP_58675_A_48312742	NC_021166.1	Ca_Kabuli_Chr07	48312742	AA	GG	GG	INTERGENIC		
SNP_58676_A_48312966	NC_021166.1	Ca_Kabuli_Chr07	48312966	CC	AA	AA	INTERGENIC		
SNP_58677_A_48313095	NC_021166.1	Ca_Kabuli_Chr07	48313095	GG	AA	AA	INTERGENIC		
SNP_58678_A_48328239	NC_021166.1	Ca_Kabuli_Chr07	48328239	TT	CC	CC	INTERGENIC		
SNP_58679_A_48328305	NC_021166.1	Ca_Kabuli_Chr07	48328305	AA	TT	TT	INTERGENIC		
SNP_58680_A_48328377	NC_021166.1	Ca_Kabuli_Chr07	48328377	GG	AA	AA	INTERGENIC		
SNP_58681_A_48328583	NC_021166.1	Ca_Kabuli_Chr07	48328583	TT	CC	CC	INTERGENIC		
SNP_58682_A_48329964	NC_021166.1	Ca_Kabuli_Chr07	48329964	TT	CC	CC	INTERGENIC		
SNP_58683_A_48329970	NC_021166.1	Ca_Kabuli_Chr07	48329970	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58684_A_48329982	NC_021166.1	Ca_Kabuli_Chr07	48329982	CC	TT	TT	INTERGENIC			
SNP_58685_A_48330012	NC_021166.1	Ca_Kabuli_Chr07	48330012	AA	TT	TT	INTERGENIC			
SNP_58686_A_48337071	NC_021166.1	Ca_Kabuli_Chr07	48337071	TT	CC	CC	INTERGENIC			
SNP_58687_A_48337267	NC_021166.1	Ca_Kabuli_Chr07	48337267	TT	GG	GG	INTERGENIC			
SNP_58688_A_48337456	NC_021166.1	Ca_Kabuli_Chr07	48337456	CC	TT	TT	INTERGENIC			
SNP_58689_A_48337486	NC_021166.1	Ca_Kabuli_Chr07	48337486	TT	CC	CC	INTERGENIC			
SNP_58690_A_48378218	NC_021166.1	Ca_Kabuli_Chr07	48378218	GG	AA	AA	INTERGENIC			
SNP_58691_A_48378249	NC_021166.1	Ca_Kabuli_Chr07	48378249	GG	TT	TT	INTERGENIC			
SNP_58693_A_48392132	NC_021166.1	Ca_Kabuli_Chr07	48392132	AA	CC	CC	INTERGENIC			
SNP_58694_A_48392226	NC_021166.1	Ca_Kabuli_Chr07	48392226	TT	CC	CC	INTERGENIC			
SNP_58695_A_48392311	NC_021166.1	Ca_Kabuli_Chr07	48392311	TT	CC	CC	INTERGENIC			
SNP_58696_A_48392323	NC_021166.1	Ca_Kabuli_Chr07	48392323	AA	GG	GG	INTERGENIC			
SNP_58697_A_48392362	NC_021166.1	Ca_Kabuli_Chr07	48392362	GG	TT	TT	INTERGENIC			
SNP_58698_A_48392409	NC_021166.1	Ca_Kabuli_Chr07	48392409	CC	TT	TT	INTERGENIC			
SNP_58699_A_48392490	NC_021166.1	Ca_Kabuli_Chr07	48392490	CC	TT	TT	INTERGENIC			
SNP_58700_A_48392610	NC_021166.1	Ca_Kabuli_Chr07	48392610	CC	AA	AA	INTERGENIC			
SNP_58701_A_48392612	NC_021166.1	Ca_Kabuli_Chr07	48392612	AA	CC	CC	INTERGENIC			
SNP_58703_A_48392699	NC_021166.1	Ca_Kabuli_Chr07	48392699	TT	AA	AA	INTERGENIC			
SNP_58704_A_48392741	NC_021166.1	Ca_Kabuli_Chr07	48392741	GG	CC	CC	INTERGENIC			
SNP_58705_A_48392915	NC_021166.1	Ca_Kabuli_Chr07	48392915	AA	GG	GG	INTERGENIC			
SNP_58706_A_48392923	NC_021166.1	Ca_Kabuli_Chr07	48392923	TT	AA	AA	INTERGENIC			
SNP_58707_A_48393015	NC_021166.1	Ca_Kabuli_Chr07	48393015	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_58708_A_48400511	NC_021166.1	Ca_Kabuli_Chr07	48400511	AA	GG	GG	INTERGENIC			
SNP_58709_A_48400536	NC_021166.1	Ca_Kabuli_Chr07	48400536	AA	CC	CC	INTERGENIC			
SNP_58710_A_48429075	NC_021166.1	Ca_Kabuli_Chr07	48429075	AA	TT	TT	INTERGENIC			
SNP_58711_A_48429256	NC_021166.1	Ca_Kabuli_Chr07	48429256	AA	CC	CC	INTERGENIC			
SNP_58712_A_48535958	NC_021166.1	Ca_Kabuli_Chr07	48535958	AA	GG	GG	INTERGENIC			
SNP_58713_A_48536433	NC_021166.1	Ca_Kabuli_Chr07	48536433	GG	AA	AA	INTERGENIC			
SNP_58714_A_48572596	NC_021166.1	Ca_Kabuli_Chr07	48572596	AA	GG	GG	URR	101505183	dirigent protein 21-like	
SNP_58715_A_48592002	NC_021166.1	Ca_Kabuli_Chr07	48592002	CC	TT	TT	INTERGENIC			
SNP_58716_A_48601410	NC_021166.1	Ca_Kabuli_Chr07	48601410	CC	TT	TT	INTERGENIC			
SNP_58717_A_48611317	NC_021166.1	Ca_Kabuli_Chr07	48611317	GG	AA	AA	INTERGENIC			
SNP_58718_A_48611464	NC_021166.1	Ca_Kabuli_Chr07	48611464	TT	AA	AA	INTERGENIC			
SNP_58719_A_48611515	NC_021166.1	Ca_Kabuli_Chr07	48611515	CC	TT	TT	INTERGENIC			
SNP_58720_A_48611542	NC_021166.1	Ca_Kabuli_Chr07	48611542	TT	CC	CC	INTERGENIC			
SNP_58721_A_48612016	NC_021166.1	Ca_Kabuli_Chr07	48612016	CC	TT	TT	INTERGENIC			
SNP_58722_A_48664703	NC_021166.1	Ca_Kabuli_Chr07	48664703	AA	CC	CC	INTERGENIC			
SNP_58723_A_48664705	NC_021166.1	Ca_Kabuli_Chr07	48664705	AA	CC	CC	INTERGENIC			
SNP_58724_A_48678186	NC_021166.1	Ca_Kabuli_Chr07	48678186	CC	TT	TT	INTERGENIC			
SNP_58725_A_48678272	NC_021166.1	Ca_Kabuli_Chr07	48678272	CC	AA	AA	INTERGENIC			
SNP_58726_A_48678279	NC_021166.1	Ca_Kabuli_Chr07	48678279	AA	CC	CC	INTERGENIC			
SNP_58727_A_48678289	NC_021166.1	Ca_Kabuli_Chr07	48678289	AA	GG	GG	INTERGENIC			
SNP_58728_A_48678296	NC_021166.1	Ca_Kabuli_Chr07	48678296	TT	CC	CC	INTERGENIC			
SNP_58729_A_48678607	NC_021166.1	Ca_Kabuli_Chr07	48678607	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58730_A_48678666	NC_021166.1	Ca_Kabuli_Chr07	48678666	GG	AA	AA	INTERGENIC		
SNP_58731_A_48678675	NC_021166.1	Ca_Kabuli_Chr07	48678675	AA	TT	TT	INTERGENIC		
SNP_58732_A_48679572	NC_021166.1	Ca_Kabuli_Chr07	48679572	GG	AA	AA	INTERGENIC		
SNP_58733_A_48703776	NC_021166.1	Ca_Kabuli_Chr07	48703776	CC	TT	TT	INTERGENIC		
SNP_58735_A_48708913	NC_021166.1	Ca_Kabuli_Chr07	48708913	GG	TT	TT	INTRON	101508099	uncharacterized LOC101508099
SNP_58736_A_48709796	NC_021166.1	Ca_Kabuli_Chr07	48709796	GG	AA	AA	INTRON	101508099	uncharacterized LOC101508099
SNP_58737_A_48728191	NC_021166.1	Ca_Kabuli_Chr07	48728191	TT	GG	GG	INTERGENIC		
SNP_58738_A_48729787	NC_021166.1	Ca_Kabuli_Chr07	48729787	TT	CC	CC	INTERGENIC		
SNP_58739_A_48746469	NC_021166.1	Ca_Kabuli_Chr07	48746469	GG	AA	AA	INTRON	101508414	uncharacterized LOC101508414
SNP_58740_A_48748546	NC_021166.1	Ca_Kabuli_Chr07	48748546	AA	GG	GG	INTRON	101508414	uncharacterized LOC101508414
SNP_58742_A_48785033	NC_021166.1	Ca_Kabuli_Chr07	48785033	CC	TT	TT	INTERGENIC		
SNP_58743_A_48785034	NC_021166.1	Ca_Kabuli_Chr07	48785034	CC	TT	TT	INTERGENIC		
SNP_58744_A_48785044	NC_021166.1	Ca_Kabuli_Chr07	48785044	TT	CC	CC	INTERGENIC		
SNP_58745_A_48785067	NC_021166.1	Ca_Kabuli_Chr07	48785067	GG	AA	AA	INTERGENIC		
SNP_58746_A_48785109	NC_021166.1	Ca_Kabuli_Chr07	48785109	CC	TT	TT	INTERGENIC		
SNP_58747_A_48788311	NC_021166.1	Ca_Kabuli_Chr07	48788311	AA	CC	CC	INTERGENIC		
SNP_58748_A_48788363	NC_021166.1	Ca_Kabuli_Chr07	48788363	GG	TT	TT	INTERGENIC		
SNP_58749_A_48788367	NC_021166.1	Ca_Kabuli_Chr07	48788367	GG	AA	AA	INTERGENIC		
SNP_58750_A_48796921	NC_021166.1	Ca_Kabuli_Chr07	48796921	CC	TT	TT	INTRON	101508724	Unknown function
SNP_58751_A_48814121	NC_021166.1	Ca_Kabuli_Chr07	48814121	AA	GG	GG	INTERGENIC		
SNP_58752_A_48816284	NC_021166.1	Ca_Kabuli_Chr07	48816284	TT	AA	AA	URR	101509362	uncharacterized LOC101509362
SNP_58753_A_48826605	NC_021166.1	Ca_Kabuli_Chr07	48826605	CC	TT	TT	URR	101509683	uncharacterized LOC101509683

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58756_A_48852096	NC_021166.1	Ca_Kabuli_Chr07	48852096	AA	GG	GG	URR	101510657	uncharacterized LOC101510657
SNP_58757_A_48871999	NC_021166.1	Ca_Kabuli_Chr07	48871999	TT	GG	GG	INTERGENIC		
SNP_58758_A_48872502	NC_021166.1	Ca_Kabuli_Chr07	48872502	GG	AA	AA	INTERGENIC		
SNP_58759_A_48872609	NC_021166.1	Ca_Kabuli_Chr07	48872609	GG	AA	AA	INTERGENIC		
SNP_58760_A_48872610	NC_021166.1	Ca_Kabuli_Chr07	48872610	AA	TT	TT	INTERGENIC		
SNP_58761_A_48875826	NC_021166.1	Ca_Kabuli_Chr07	48875826	AA	TT	TT	INTERGENIC		
SNP_58763_A_48879234	NC_021166.1	Ca_Kabuli_Chr07	48879234	TT	AA	AA	INTERGENIC		
SNP_58764_A_48879280	NC_021166.1	Ca_Kabuli_Chr07	48879280	AA	GG	GG	INTERGENIC		
SNP_58765_A_48879410	NC_021166.1	Ca_Kabuli_Chr07	48879410	CC	GG	GG	INTERGENIC		
SNP_58766_A_48879445	NC_021166.1	Ca_Kabuli_Chr07	48879445	GG	AA	AA	INTERGENIC		
SNP_58767_A_48879470	NC_021166.1	Ca_Kabuli_Chr07	48879470	AA	GG	GG	INTERGENIC		
SNP_58768_A_48917441	NC_021166.1	Ca_Kabuli_Chr07	48917441	CC	AA	AA	INTERGENIC		
SNP_58769_A_48922824	NC_021166.1	Ca_Kabuli_Chr07	48922824	CC	TT	TT	INTERGENIC		
SNP_58770_A_48926610	NC_021166.1	Ca_Kabuli_Chr07	48926610	CC	TT	TT	INTERGENIC		
SNP_58771_A_48929204	NC_021166.1	Ca_Kabuli_Chr07	48929204	CC	TT	TT	INTERGENIC		
SNP_58772_A_48946048	NC_021166.1	Ca_Kabuli_Chr07	48946048	GG	AA	AA	INTERGENIC		
SNP_58773_A_48946549	NC_021166.1	Ca_Kabuli_Chr07	48946549	CC	TT	TT	INTERGENIC		
SNP_58774_A_48957042	NC_021166.1	Ca_Kabuli_Chr07	48957042	CC	TT	TT	INTERGENIC		
SNP_58776_A_9984	NC_021167.1	Ca_Kabuli_Chr08	9984	GG	TT	TT	INTERGENIC		
SNP_58777_A_12826	NC_021167.1	Ca_Kabuli_Chr08	12826	AA	GG	GG	INTERGENIC		
SNP_58779_A_15586	NC_021167.1	Ca_Kabuli_Chr08	15586	AA	TT	TT	DRR	101511287	Unknown function
SNP_58780_A_15774	NC_021167.1	Ca_Kabuli_Chr08	15774	AA	GG	GG	DRR	101511287	Unknown function

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SNP_58781_A_15921	NC_021167.1	Ca_Kabuli_Chr08	15921	AA	GG	GG	DRR	101511287	Unknown function
SNP_58782_A_15940	NC_021167.1	Ca_Kabuli_Chr08	15940	GG	AA	AA	DRR	101511287	Unknown function
SNP_58783_A_16049	NC_021167.1	Ca_Kabuli_Chr08	16049	CC	AA	AA	DRR	101511287	Unknown function
SNP_58784_A_16747	NC_021167.1	Ca_Kabuli_Chr08	16747	CC	GG	GG	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58785_A_17770	NC_021167.1	Ca_Kabuli_Chr08	17770	AA	GG	GG	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58786_A_17812	NC_021167.1	Ca_Kabuli_Chr08	17812	TT	GG	GG	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58787_A_17961	NC_021167.1	Ca_Kabuli_Chr08	17961	AA	CC	CC	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58788_A_18055	NC_021167.1	Ca_Kabuli_Chr08	18055	AA	CC	CC	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58789_A_18205	NC_021167.1	Ca_Kabuli_Chr08	18205	TT	CC	CC	NON_SYNONYMOUS_CODING	id179896	Unknown function
SNP_58790_A_21356	NC_021167.1	Ca_Kabuli_Chr08	21356	AA	GG	GG	INTERGENIC		
SNP_58791_A_21982	NC_021167.1	Ca_Kabuli_Chr08	21982	AA	GG	GG	INTERGENIC		
SNP_58792_A_37460	NC_021167.1	Ca_Kabuli_Chr08	37460	AA	GG	GG	INTRON	101511505	methionyl-tRNA formyltransferase, mitochondrial
SNP_58794_A_187904	NC_021167.1	Ca_Kabuli_Chr08	187904	GG	AA	AA	URR	101489155	uncharacterized LOC101489155
SNP_58795_A_187926	NC_021167.1	Ca_Kabuli_Chr08	187926	CC	TT	TT	URR	101489155	uncharacterized LOC101489155
SNP_58796_A_193824	NC_021167.1	Ca_Kabuli_Chr08	193824	CC	TT	TT	INTERGENIC		
SNP_58797_A_193858	NC_021167.1	Ca_Kabuli_Chr08	193858	AA	GG	GG	INTERGENIC		
SNP_58798_A_193908	NC_021167.1	Ca_Kabuli_Chr08	193908	AA	GG	GG	INTERGENIC		
SNP_58799_A_194130	NC_021167.1	Ca_Kabuli_Chr08	194130	AA	GG	GG	INTERGENIC		
SNP_58800_A_195314	NC_021167.1	Ca_Kabuli_Chr08	195314	CC	TT	TT	DRR	101507556	pentatricopeptide repeat-containing protein At4g20740-like
SNP_58801_A_203996	NC_021167.1	Ca_Kabuli_Chr08	203996	GG	CC	CC	URR	101489888	Unknown function
SNP_58802_A_207167	NC_021167.1	Ca_Kabuli_Chr08	207167	TT	CC	CC	INTERGENIC		
SNP_58803_A_209252	NC_021167.1	Ca_Kabuli_Chr08	209252	TT	CC	CC	URR	101508184	pentatricopeptide repeat-containing protein At4g20740-like

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SNP_58804_A_234558	NC_021167.1	Ca_Kabuli_Chr08	234558	AA	GG	GG	URR	101491192	DNA repair protein REV1
SNP_58805_A_256385	NC_021167.1	Ca_Kabuli_Chr08	256385	AA	GG	GG	DRR	101493796	somatic embryogenesis receptor kinase 2-like
SNP_58806_A_305437	NC_021167.1	Ca_Kabuli_Chr08	305437	GG	AA	AA	DRR	101497145	myosin-2 heavy chain
SNP_58807_A_329797	NC_021167.1	Ca_Kabuli_Chr08	329797	AA	GG	GG	URR	101498561	magnesium transporter MRS2-3
SNP_58808_A_335259	NC_021167.1	Ca_Kabuli_Chr08	335259	CC	TT	TT	INTERGENIC		
SNP_58809_A_383509	NC_021167.1	Ca_Kabuli_Chr08	383509	CC	AA	AA	DRR	101500065	uncharacterized LOC101500065
SNP_58810_A_383810	NC_021167.1	Ca_Kabuli_Chr08	383810	TT	AA	AA	DRR	101500065	uncharacterized LOC101500065
SNP_58811_A_383817	NC_021167.1	Ca_Kabuli_Chr08	383817	AA	TT	TT	DRR	101500065	uncharacterized LOC101500065
SNP_58812_A_399355	NC_021167.1	Ca_Kabuli_Chr08	399355	GG	AA	AA	URR	101500396	uncharacterized LOC101500396
SNP_58814_A_436137	NC_021167.1	Ca_Kabuli_Chr08	436137	AA	TT	TT	DRR	101503907	homeobox-leucine zipper protein PROTODERMAL FACTOR 2 like
SNP_58816_A_468708	NC_021167.1	Ca_Kabuli_Chr08	468708	AA	GG	GG	INTERGENIC		
SNP_58817_A_494317	NC_021167.1	Ca_Kabuli_Chr08	494317	GG	AA	AA	INTERGENIC		
SNP_58818_A_494479	NC_021167.1	Ca_Kabuli_Chr08	494479	CC	AA	AA	INTERGENIC		
SNP_58819_A_526634	NC_021167.1	Ca_Kabuli_Chr08	526634	AA	GG	GG	URR	101510115	2-hydroxyisoflavanone dehydratase-like
SNP_58820_A_530900	NC_021167.1	Ca_Kabuli_Chr08	530900	TT	AA	AA	DRR	101506370	2-hydroxyisoflavanone dehydratase-like
SNP_58822_A_696577	NC_021167.1	Ca_Kabuli_Chr08	696577	TT	CC	CC	URR	101515179	uncharacterized LOC101515179
SNP_58823_A_696578	NC_021167.1	Ca_Kabuli_Chr08	696578	TT	GG	GG	URR	101515179	uncharacterized LOC101515179
SNP_58825_A_751797	NC_021167.1	Ca_Kabuli_Chr08	751797	GG	AA	AA	URR	101491413	type I inositol 1,4,5-trisphosphate 5-phosphatase CVP2
SNP_58826_A_760731	NC_021167.1	Ca_Kabuli_Chr08	760731	CC	TT	TT	INTERGENIC		
SNP_58828_A_805218	NC_021167.1	Ca_Kabuli_Chr08	805218	TT	GG	GG	URR	101494426	uncharacterized LOC101494426
SNP_58831_A_866042	NC_021167.1	Ca_Kabuli_Chr08	866042	TT	CC	CC	INTERGENIC		
SNP_58832_A_906477	NC_021167.1	Ca_Kabuli_Chr08	906477	CC	AA	AA	URR	101500810	target of Myb protein 1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58833_A_937829	NC_021167.1	Ca_Kabuli_Chr08	937829	CC	GG	GG	URR	101502511	ERAD-associated E3 ubiquitin-protein ligase HRD1B
SNP_58834_A_937837	NC_021167.1	Ca_Kabuli_Chr08	937837	CC	GG	GG	URR	101502511	ERAD-associated E3 ubiquitin-protein ligase HRD1B
SNP_58835_A_937841	NC_021167.1	Ca_Kabuli_Chr08	937841	AA	GG	GG	URR	101502511	ERAD-associated E3 ubiquitin-protein ligase HRD1B
SNP_58836_A_957462	NC_021167.1	Ca_Kabuli_Chr08	957462	CC	TT	TT	NON_SYNONYMOUS_CODING	id181253	Unknown function
SNP_58837_A_957486	NC_021167.1	Ca_Kabuli_Chr08	957486	TT	AA	AA	NON_SYNONYMOUS_CODING	id181253	Unknown function
SNP_58838_A_957495	NC_021167.1	Ca_Kabuli_Chr08	957495	CC	TT	TT	NON_SYNONYMOUS_CODING	id181253	Unknown function
SNP_58839_A_960918	NC_021167.1	Ca_Kabuli_Chr08	960918	AA	TT	TT	INTERGENIC		
SNP_58841_A_1066577	NC_021167.1	Ca_Kabuli_Chr08	1066577	AA	TT	TT	URR	101515071	cyclin-B1-2-like
SNP_58844_A_1080050	NC_021167.1	Ca_Kabuli_Chr08	1080050	AA	GG	GG	INTERGENIC		
SNP_58845_A_1080054	NC_021167.1	Ca_Kabuli_Chr08	1080054	GG	AA	AA	INTERGENIC		
SNP_58846_A_1080057	NC_021167.1	Ca_Kabuli_Chr08	1080057	GG	TT	TT	INTERGENIC		
SNP_58847_A_1105182	NC_021167.1	Ca_Kabuli_Chr08	1105182	GG	CC	CC	INTERGENIC		
SNP_58848_A_1163596	NC_021167.1	Ca_Kabuli_Chr08	1163596	CC	TT	TT	INTERGENIC		
SNP_58849_A_1183945	NC_021167.1	Ca_Kabuli_Chr08	1183945	GG	TT	TT	DRR	101514855	Unknown function
SNP_58851_A_1210861	NC_021167.1	Ca_Kabuli_Chr08	1210861	TT	GG	GG	INTERGENIC		
SNP_58852_A_1210896	NC_021167.1	Ca_Kabuli_Chr08	1210896	TT	CC	CC	INTERGENIC		
SNP_58854_A_1342994	NC_021167.1	Ca_Kabuli_Chr08	1342994	TT	CC	CC	INTERGENIC		
SNP_58855_A_1343026	NC_021167.1	Ca_Kabuli_Chr08	1343026	GG	CC	CC	INTERGENIC		
SNP_58856_A_1343055	NC_021167.1	Ca_Kabuli_Chr08	1343055	AA	CC	CC	INTERGENIC		
SNP_58858_A_1378968	NC_021167.1	Ca_Kabuli_Chr08	1378968	AA	GG	GG	URR	101505078	putative RING-H2 finger protein ATL21A
SNP_58859_A_1389083	NC_021167.1	Ca_Kabuli_Chr08	1389083	TT	CC	CC	URR	101505733	uncharacterized LOC101505733
SNP_58860_A_1401089	NC_021167.1	Ca_Kabuli_Chr08	1401089	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58861_A_1429576	NC_021167.1	Ca_Kabuli_Chr08	1429576	TT	CC	CC	INTERGENIC		
SNP_58863_A_1456389	NC_021167.1	Ca_Kabuli_Chr08	1456389	CC	TT	TT	INTRON	101507350	mitochondrial adenine nucleotide transporter ADNT1-like
SNP_58864_A_1494056	NC_021167.1	Ca_Kabuli_Chr08	1494056	GG	AA	AA	DRR	101509365	ethylene-responsive transcription factor CRF2-like
SNP_58865_A_1500184	NC_021167.1	Ca_Kabuli_Chr08	1500184	CC	TT	TT	INTERGENIC		
SNP_58866_A_1519588	NC_021167.1	Ca_Kabuli_Chr08	1519588	AA	GG	GG	URR	101510545	probable beta-1,3-galactosyltransferase 11
SNP_58867_A_1525131	NC_021167.1	Ca_Kabuli_Chr08	1525131	AA	GG	GG	INTERGENIC		
SNP_58868_A_1544870	NC_021167.1	Ca_Kabuli_Chr08	1544870	GG	TT	TT	URR	101511507	uncharacterized protein At5g41620
SNP_58869_A_1586657	NC_021167.1	Ca_Kabuli_Chr08	1586657	GG	TT	TT	INTERGENIC		
SNP_58870_A_1606152	NC_021167.1	Ca_Kabuli_Chr08	1606152	TT	CC	CC	INTRON	101488928	E3 SUMO-protein ligase pli1
SNP_58871_A_1655618	NC_021167.1	Ca_Kabuli_Chr08	1655618	GG	TT	TT	INTRON	101493061	myb-like protein Q
SNP_58872_A_1699965	NC_021167.1	Ca_Kabuli_Chr08	1699965	CC	TT	TT	INTERGENIC		
SNP_58873_A_1699974	NC_021167.1	Ca_Kabuli_Chr08	1699974	CC	GG	GG	INTERGENIC		
SNP_58875_A_1779543	NC_021167.1	Ca_Kabuli_Chr08	1779543	GG	TT	TT	DRR	101497147	AT-hook motif nuclear-localized protein 5-like
SNP_58876_A_1779546	NC_021167.1	Ca_Kabuli_Chr08	1779546	AA	GG	GG	DRR	101497147	AT-hook motif nuclear-localized protein 5-like
SNP_58877_A_1850381	NC_021167.1	Ca_Kabuli_Chr08	1850381	CC	TT	TT	URR	101500813	transcription initiation factor IIE subunit beta-like
SNP_58878_A_1863675	NC_021167.1	Ca_Kabuli_Chr08	1863675	CC	TT	TT	NON_SYNONYMOUS_CODING	101501657	serine/threonine-protein phosphatase 7 long form homolog
SNP_58879_A_1864342	NC_021167.1	Ca_Kabuli_Chr08	1864342	TT	CC	CC	URR	101501657	serine/threonine-protein phosphatase 7 long form homolog
SNP_58880_A_1864346	NC_021167.1	Ca_Kabuli_Chr08	1864346	TT	CC	CC	URR	101501657	serine/threonine-protein phosphatase 7 long form homolog
SNP_58881_A_1864403	NC_021167.1	Ca_Kabuli_Chr08	1864403	AA	GG	GG	DRR	101501970	transcription factor MYB76-like
SNP_58882_A_1932000	NC_021167.1	Ca_Kabuli_Chr08	1932000	TT	AA	AA	URR	101504878	proteasome subunit beta type-1
SNP_58883_A_1972404	NC_021167.1	Ca_Kabuli_Chr08	1972404	TT	CC	CC	INTRON	101506487	DNA-directed RNA polymerase IV subunit 1
SNP_58885_A_1995666	NC_021167.1	Ca_Kabuli_Chr08	1995666	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58886_A_1995668	NC_021167.1	Ca_Kabuli_Chr08	1995668	TT	AA	AA	INTERGENIC		
SNP_58887_A_2006778	NC_021167.1	Ca_Kabuli_Chr08	2006778	GG	AA	AA	DRR	101494339	phospholipase D gamma 1-like
SNP_58888_A_2032644	NC_021167.1	Ca_Kabuli_Chr08	2032644	CC	TT	TT	URR	101509044	protein FAM63B
SNP_58889_A_2032829	NC_021167.1	Ca_Kabuli_Chr08	2032829	CC	TT	TT	SYNONYMOUS_CODING	101494650	uncharacterized LOC101494650
SNP_58890_A_2033107	NC_021167.1	Ca_Kabuli_Chr08	2033107	CC	TT	TT	NON_SYNONYMOUS_CODING	101494650	uncharacterized LOC101494650
SNP_58892_A_2033544	NC_021167.1	Ca_Kabuli_Chr08	2033544	TT	CC	CC	URR	101494650	uncharacterized LOC101494650
SNP_58893_A_2033802	NC_021167.1	Ca_Kabuli_Chr08	2033802	TT	CC	CC	URR	101494650	uncharacterized LOC101494650
SNP_58895_A_2145457	NC_021167.1	Ca_Kabuli_Chr08	2145457	TT	AA	AA	INTERGENIC		
SNP_58897_A_2345806	NC_021167.1	Ca_Kabuli_Chr08	2345806	CC	TT	TT	URR	101499948	vesicle-associated protein 1-2-like
SNP_58898_A_2345897	NC_021167.1	Ca_Kabuli_Chr08	2345897	TT	CC	CC	URR	101499948	vesicle-associated protein 1-2-like
SNP_58899_A_2345961	NC_021167.1	Ca_Kabuli_Chr08	2345961	AA	GG	GG	URR	101499948	vesicle-associated protein 1-2-like
SNP_58900_A_2345971	NC_021167.1	Ca_Kabuli_Chr08	2345971	AA	GG	GG	URR	101499948	vesicle-associated protein 1-2-like
SNP_58901_A_2345992	NC_021167.1	Ca_Kabuli_Chr08	2345992	TT	GG	GG	URR	101499948	vesicle-associated protein 1-2-like
SNP_58902_A_2346002	NC_021167.1	Ca_Kabuli_Chr08	2346002	CC	TT	TT	URR	101499948	vesicle-associated protein 1-2-like
SNP_58903_A_2346043	NC_021167.1	Ca_Kabuli_Chr08	2346043	TT	CC	CC	URR	101499948	vesicle-associated protein 1-2-like
SNP_58904_A_2346149	NC_021167.1	Ca_Kabuli_Chr08	2346149	CC	TT	TT	URR	101499948	vesicle-associated protein 1-2-like
SNP_58905_A_2346274	NC_021167.1	Ca_Kabuli_Chr08	2346274	GG	AA	AA	URR	101499948	vesicle-associated protein 1-2-like
SNP_58906_A_2346470	NC_021167.1	Ca_Kabuli_Chr08	2346470	TT	CC	CC	URR	101499948	vesicle-associated protein 1-2-like
SNP_58907_A_2346577	NC_021167.1	Ca_Kabuli_Chr08	2346577	TT	GG	GG	URR	101499948	vesicle-associated protein 1-2-like
SNP_58908_A_2479847	NC_021167.1	Ca_Kabuli_Chr08	2479847	AA	CC	CC	URR	101496607	uncharacterized LOC101496607
SNP_58909_A_2480828	NC_021167.1	Ca_Kabuli_Chr08	2480828	TT	GG	GG	DRR	101505621	probable aquaporin TIP2-2
SNP_58910_A_2480879	NC_021167.1	Ca_Kabuli_Chr08	2480879	TT	CC	CC	DRR	101505621	probable aquaporin TIP2-2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58911_A_2480880	NC_021167.1	Ca_Kabuli_Chr08	2480880	AA	TT	TT	DRR	101505621	probable aquaporin TIP2-2
SNP_58912_A_2490650	NC_021167.1	Ca_Kabuli_Chr08	2490650	TT	CC	CC	URR	101506257	uncharacterized LOC101506257
SNP_58913_A_2506425	NC_021167.1	Ca_Kabuli_Chr08	2506425	CC	AA	AA	INTERGENIC		
SNP_58914_A_2506438	NC_021167.1	Ca_Kabuli_Chr08	2506438	AA	GG	GG	INTERGENIC		
SNP_58915_A_2506465	NC_021167.1	Ca_Kabuli_Chr08	2506465	GG	AA	AA	INTERGENIC		
SNP_58916_A_2506472	NC_021167.1	Ca_Kabuli_Chr08	2506472	CC	GG	GG	INTERGENIC		
SNP_58917_A_2506491	NC_021167.1	Ca_Kabuli_Chr08	2506491	GG	AA	AA	INTERGENIC		
SNP_58918_A_2516923	NC_021167.1	Ca_Kabuli_Chr08	2516923	GG	TT	TT	INTRON	101508298	DNA mismatch repair protein MSH4
SNP_58919_A_2608692	NC_021167.1	Ca_Kabuli_Chr08	2608692	CC	TT	TT	INTERGENIC		
SNP_58921_A_2757344	NC_021167.1	Ca_Kabuli_Chr08	2757344	TT	GG	GG	INTERGENIC		
SNP_58922_A_2781769	NC_021167.1	Ca_Kabuli_Chr08	2781769	AA	CC	CC	INTERGENIC		
SNP_58923_A_2781770	NC_021167.1	Ca_Kabuli_Chr08	2781770	TT	CC	CC	INTERGENIC		
SNP_58924_A_2884333	NC_021167.1	Ca_Kabuli_Chr08	2884333	AA	TT	TT	DRR	101495398	Ion protease homolog 2, peroxisomal
SNP_58925_A_2894971	NC_021167.1	Ca_Kabuli_Chr08	2894971	CC	TT	TT	URR	101495398	Ion protease homolog 2, peroxisomal
SNP_58927_A_3152362	NC_021167.1	Ca_Kabuli_Chr08	3152362	AA	TT	TT	INTERGENIC		
SNP_58928_A_3156928	NC_021167.1	Ca_Kabuli_Chr08	3156928	TT	AA	AA	URR	101506918	transcription factor bHLH18-like
SNP_58929_A_3175436	NC_021167.1	Ca_Kabuli_Chr08	3175436	GG	AA	AA	URR	101507557	transcription factor bHLH18-like
SNP_58930_A_3192266	NC_021167.1	Ca_Kabuli_Chr08	3192266	TT	GG	GG	INTERGENIC		
SNP_58931_A_3224377	NC_021167.1	Ca_Kabuli_Chr08	3224377	GG	AA	AA	NON_SYNONYMOUS_CODING	101508185	malate dehydrogenase, glyoxysomal
SNP_58932_A_3284986	NC_021167.1	Ca_Kabuli_Chr08	3284986	AA	GG	GG	INTRON	101510007	branched-chain-amino-acid aminotransferase 5, chloroplastic-like
SNP_58933_A_3305877	NC_021167.1	Ca_Kabuli_Chr08	3305877	GG	TT	TT	INTERGENIC		
SNP_58935_A_3335083	NC_021167.1	Ca_Kabuli_Chr08	3335083	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58936_A_3373894	NC_021167.1	Ca_Kabuli_Chr08	3373894	TT	GG	GG	URR	101500176	uncharacterized LOC101500176
SNP_58937_A_3482015	NC_021167.1	Ca_Kabuli_Chr08	3482015	CC	TT	TT	INTERGENIC		
SNP_58938_A_3487954	NC_021167.1	Ca_Kabuli_Chr08	3487954	CC	TT	TT	INTERGENIC		
SNP_58939_A_3487969	NC_021167.1	Ca_Kabuli_Chr08	3487969	CC	TT	TT	INTERGENIC		
SNP_58940_A_3545657	NC_021167.1	Ca_Kabuli_Chr08	3545657	TT	CC	CC	URR	101493275	BTB/POZ domain-containing protein At3g49900
SNP_58941_A_3545661	NC_021167.1	Ca_Kabuli_Chr08	3545661	GG	CC	CC	URR	101493275	BTB/POZ domain-containing protein At3g49900
SNP_58943_A_3669431	NC_021167.1	Ca_Kabuli_Chr08	3669431	TT	CC	CC	INTERGENIC		
SNP_58944_A_3669888	NC_021167.1	Ca_Kabuli_Chr08	3669888	GG	TT	TT	INTERGENIC		
SNP_58945_A_3669942	NC_021167.1	Ca_Kabuli_Chr08	3669942	TT	CC	CC	INTERGENIC		
SNP_58946_A_3676327	NC_021167.1	Ca_Kabuli_Chr08	3676327	CC	TT	TT	INTERGENIC		
SNP_58947_A_3687110	NC_021167.1	Ca_Kabuli_Chr08	3687110	TT	CC	CC	INTERGENIC		
SNP_58948_A_3732965	NC_021167.1	Ca_Kabuli_Chr08	3732965	AA	CC	CC	DRR	101500815	probable prolyl 4-hydroxylase 9
SNP_58949_A_3777781	NC_021167.1	Ca_Kabuli_Chr08	3777781	TT	AA	AA	URR	101501446	subtilisin-like protease SBT1.7
SNP_58950_A_3809247	NC_021167.1	Ca_Kabuli_Chr08	3809247	TT	CC	CC	URR	101503264	DNA-directed RNA polymerases II and IV subunit 5A-like
SNP_58951_A_3897021	NC_021167.1	Ca_Kabuli_Chr08	3897021	TT	AA	AA	INTERGENIC		
SNP_58952_A_3897024	NC_021167.1	Ca_Kabuli_Chr08	3897024	AA	CC	CC	INTERGENIC		
SNP_58953_A_3947159	NC_021167.1	Ca_Kabuli_Chr08	3947159	TT	CC	CC	INTERGENIC		
SNP_58954_A_3947560	NC_021167.1	Ca_Kabuli_Chr08	3947560	AA	GG	GG	INTERGENIC		
SNP_58955_A_3947998	NC_021167.1	Ca_Kabuli_Chr08	3947998	CC	AA	AA	INTERGENIC		
SNP_58956_A_4026575	NC_021167.1	Ca_Kabuli_Chr08	4026575	CC	TT	TT	INTERGENIC		
SNP_58958_A_4067647	NC_021167.1	Ca_Kabuli_Chr08	4067647	TT	GG	GG	INTERGENIC		
SNP_58959_A_4138408	NC_021167.1	Ca_Kabuli_Chr08	4138408	CC	TT	TT	URR	101490876	transcription factor HEC2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58960_A_4214714	NC_021167.1	Ca_Kabuli_Chr08	4214714	AA	GG	GG	INTERGENIC		
SNP_58961_A_4214749	NC_021167.1	Ca_Kabuli_Chr08	4214749	AA	GG	GG	INTERGENIC		
SNP_58962_A_4292992	NC_021167.1	Ca_Kabuli_Chr08	4292992	TT	CC	CC	URR	101496927	patatin-like protein 5
SNP_58963_A_4311355	NC_021167.1	Ca_Kabuli_Chr08	4311355	AA	GG	GG	URR	101498139	uncharacterized LOC101498139
SNP_58964_A_4409654	NC_021167.1	Ca_Kabuli_Chr08	4409654	CC	TT	TT	URR	101503029	LOB domain-containing protein 36-like
SNP_58965_A_4489660	NC_021167.1	Ca_Kabuli_Chr08	4489660	AA	CC	CC	URR	101503355	reticulon-like protein B13
SNP_58967_A_4537461	NC_021167.1	Ca_Kabuli_Chr08	4537461	AA	TT	TT	DRR	101504329	Unknown function
SNP_58968_A_4550255	NC_021167.1	Ca_Kabuli_Chr08	4550255	AA	GG	GG	INTERGENIC		
SNP_58969_A_4585155	NC_021167.1	Ca_Kabuli_Chr08	4585155	AA	TT	TT	INTERGENIC		
SNP_58971_A_4684052	NC_021167.1	Ca_Kabuli_Chr08	4684052	TT	AA	AA	INTERGENIC		
SNP_58972_A_4684055	NC_021167.1	Ca_Kabuli_Chr08	4684055	TT	GG	GG	INTERGENIC		
SNP_58973_A_4819249	NC_021167.1	Ca_Kabuli_Chr08	4819249	GG	TT	TT	INTERGENIC		
SNP_58975_A_4914394	NC_021167.1	Ca_Kabuli_Chr08	4914394	CC	TT	TT	INTRON	101493382	DNA-directed RNA polymerase III subunit RPC5
SNP_58978_A_5069471	NC_021167.1	Ca_Kabuli_Chr08	5069471	CC	TT	TT	INTERGENIC		
SNP_58979_A_5069746	NC_021167.1	Ca_Kabuli_Chr08	5069746	TT	CC	CC	INTERGENIC		
SNP_58980_A_5069841	NC_021167.1	Ca_Kabuli_Chr08	5069841	GG	AA	AA	INTERGENIC		
SNP_58981_A_5069915	NC_021167.1	Ca_Kabuli_Chr08	5069915	TT	GG	GG	INTERGENIC		
SNP_58983_A_5069959	NC_021167.1	Ca_Kabuli_Chr08	5069959	GG	TT	TT	INTERGENIC		
SNP_58984_A_5069965	NC_021167.1	Ca_Kabuli_Chr08	5069965	TT	CC	CC	INTERGENIC		
SNP_58985_A_5069979	NC_021167.1	Ca_Kabuli_Chr08	5069979	AA	CC	CC	INTERGENIC		
SNP_58986_A_5070006	NC_021167.1	Ca_Kabuli_Chr08	5070006	CC	TT	TT	INTERGENIC		
SNP_58987_A_5070019	NC_021167.1	Ca_Kabuli_Chr08	5070019	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_58989_A_5088588	NC_021167.1	Ca_Kabuli_Chr08	5088588	AA	CC	CC	INTERGENIC		
SNP_58990_A_5088635	NC_021167.1	Ca_Kabuli_Chr08	5088635	GG	AA	AA	INTERGENIC		
SNP_58991_A_5089202	NC_021167.1	Ca_Kabuli_Chr08	5089202	AA	GG	GG	INTERGENIC		
SNP_58992_A_5089275	NC_021167.1	Ca_Kabuli_Chr08	5089275	AA	CC	CC	INTERGENIC		
SNP_58993_A_5181884	NC_021167.1	Ca_Kabuli_Chr08	5181884	AA	TT	TT	INTERGENIC		
SNP_58994_A_5187997	NC_021167.1	Ca_Kabuli_Chr08	5187997	AA	TT	TT	URR	101503030	sugar transporter ERD6-like 6
SNP_58996_A_5217981	NC_021167.1	Ca_Kabuli_Chr08	5217981	AA	GG	GG	DRR	101507250	Unknown function
SNP_58997_A_5218188	NC_021167.1	Ca_Kabuli_Chr08	5218188	AA	GG	GG	NON_SYNONYMOUS_CODING	101507250	Unknown function
SNP_58998_A_5221737	NC_021167.1	Ca_Kabuli_Chr08	5221737	TT	CC	CC	INTRON	101507250	Unknown function
SNP_58999_A_5221945	NC_021167.1	Ca_Kabuli_Chr08	5221945	AA	CC	CC	INTRON	101507250	Unknown function
SNP_59000_A_5221952	NC_021167.1	Ca_Kabuli_Chr08	5221952	GG	TT	TT	INTRON	101507250	Unknown function
SNP_59001_A_5269145	NC_021167.1	Ca_Kabuli_Chr08	5269145	CC	AA	AA	INTRON	101506700	syntaxin-112
SNP_59002_A_5269208	NC_021167.1	Ca_Kabuli_Chr08	5269208	AA	TT	TT	INTRON	101506700	syntaxin-112
SNP_59003_A_5269309	NC_021167.1	Ca_Kabuli_Chr08	5269309	TT	CC	CC	INTRON	101506700	syntaxin-112
SNP_59005_A_5269355	NC_021167.1	Ca_Kabuli_Chr08	5269355	TT	GG	GG	INTRON	101506700	syntaxin-112
SNP_59006_A_5269394	NC_021167.1	Ca_Kabuli_Chr08	5269394	TT	AA	AA	INTRON	101506700	syntaxin-112
SNP_59007_A_5269412	NC_021167.1	Ca_Kabuli_Chr08	5269412	CC	AA	AA	INTRON	101506700	syntaxin-112
SNP_59008_A_5271017	NC_021167.1	Ca_Kabuli_Chr08	5271017	CC	TT	TT	INTRON	101506700	syntaxin-112
SNP_59009_A_5294145	NC_021167.1	Ca_Kabuli_Chr08	5294145	TT	CC	CC	INTRON	101508103	transmembrane protein 53-like
SNP_59010_A_5346652	NC_021167.1	Ca_Kabuli_Chr08	5346652	AA	GG	GG	URR	101509690	uncharacterized LOC101509690
SNP_59011_A_5377367	NC_021167.1	Ca_Kabuli_Chr08	5377367	CC	TT	TT	URR	101511189	probable mitochondrial chaperone BCS1-B
SNP_59012_A_5421914	NC_021167.1	Ca_Kabuli_Chr08	5421914	CC	TT	TT	DRR	101513990	uncharacterized LOC101513990

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59013_A_5533542	NC_021167.1	Ca_Kabuli_Chr08	5533542	CC	TT	TT	URR	101507875	Unknown function
SNP_59014_A_5578425	NC_021167.1	Ca_Kabuli_Chr08	5578425	AA	TT	TT	INTERGENIC		
SNP_59015_A_5578561	NC_021167.1	Ca_Kabuli_Chr08	5578561	CC	TT	TT	INTERGENIC		
SNP_59016_A_5578988	NC_021167.1	Ca_Kabuli_Chr08	5578988	CC	TT	TT	INTERGENIC		
SNP_59017_A_5616697	NC_021167.1	Ca_Kabuli_Chr08	5616697	CC	TT	TT	INTERGENIC		
SNP_59019_A_5688753	NC_021167.1	Ca_Kabuli_Chr08	5688753	AA	CC	CC	URR	101498231	histone H1
SNP_59020_A_5703841	NC_021167.1	Ca_Kabuli_Chr08	5703841	TT	CC	CC	URR	101499226	60S ribosomal protein L8-3
SNP_59021_A_5709090	NC_021167.1	Ca_Kabuli_Chr08	5709090	TT	CC	CC	INTRON	101499544	filament-like plant protein 5
SNP_59022_A_5718927	NC_021167.1	Ca_Kabuli_Chr08	5718927	AA	CC	CC	DRR	101499842	auxin-induced protein 15A
SNP_59023_A_5718928	NC_021167.1	Ca_Kabuli_Chr08	5718928	TT	CC	CC	DRR	101499842	auxin-induced protein 15A
SNP_59024_A_5719139	NC_021167.1	Ca_Kabuli_Chr08	5719139	CC	TT	TT	NON_SYNONYMOUS_CODING	101499842	auxin-induced protein 15A
SNP_59025_A_5719176	NC_021167.1	Ca_Kabuli_Chr08	5719176	GG	AA	AA	SYNONYMOUS_CODING	101499842	auxin-induced protein 15A
SNP_59026_A_5719181	NC_021167.1	Ca_Kabuli_Chr08	5719181	TT	GG	GG	NON_SYNONYMOUS_CODING	101499842	auxin-induced protein 15A
SNP_59027_A_5719191	NC_021167.1	Ca_Kabuli_Chr08	5719191	CC	TT	TT	SYNONYMOUS_CODING	101499842	auxin-induced protein 15A
SNP_59028_A_5719194	NC_021167.1	Ca_Kabuli_Chr08	5719194	TT	GG	GG	SYNONYMOUS_CODING	101499842	auxin-induced protein 15A
SNP_59029_A_5719252	NC_021167.1	Ca_Kabuli_Chr08	5719252	GG	AA	AA	URR	101499842	auxin-induced protein 15A
SNP_59030_A_5719296	NC_021167.1	Ca_Kabuli_Chr08	5719296	GG	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59031_A_5719338	NC_021167.1	Ca_Kabuli_Chr08	5719338	AA	GG	GG	URR	101499842	auxin-induced protein 15A
SNP_59032_A_5719380	NC_021167.1	Ca_Kabuli_Chr08	5719380	TT	CC	CC	URR	101499842	auxin-induced protein 15A
SNP_59033_A_5719399	NC_021167.1	Ca_Kabuli_Chr08	5719399	AA	GG	GG	URR	101499842	auxin-induced protein 15A
SNP_59034_A_5719434	NC_021167.1	Ca_Kabuli_Chr08	5719434	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59035_A_5719461	NC_021167.1	Ca_Kabuli_Chr08	5719461	TT	GG	GG	URR	101499842	auxin-induced protein 15A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59036_A_5719697	NC_021167.1	Ca_Kabuli_Chr08	5719697	GG	AA	AA	URR	101499842	auxin-induced protein 15A
SNP_59037_A_5719702	NC_021167.1	Ca_Kabuli_Chr08	5719702	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59038_A_5719724	NC_021167.1	Ca_Kabuli_Chr08	5719724	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59039_A_5719767	NC_021167.1	Ca_Kabuli_Chr08	5719767	AA	CC	CC	URR	101499842	auxin-induced protein 15A
SNP_59040_A_5719777	NC_021167.1	Ca_Kabuli_Chr08	5719777	AA	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59041_A_5719783	NC_021167.1	Ca_Kabuli_Chr08	5719783	TT	CC	CC	URR	101499842	auxin-induced protein 15A
SNP_59042_A_5719784	NC_021167.1	Ca_Kabuli_Chr08	5719784	AA	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59043_A_5719785	NC_021167.1	Ca_Kabuli_Chr08	5719785	AA	GG	GG	URR	101499842	auxin-induced protein 15A
SNP_59044_A_5720033	NC_021167.1	Ca_Kabuli_Chr08	5720033	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59045_A_5720037	NC_021167.1	Ca_Kabuli_Chr08	5720037	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59046_A_5720092	NC_021167.1	Ca_Kabuli_Chr08	5720092	AA	GG	GG	URR	101499842	auxin-induced protein 15A
SNP_59047_A_5720118	NC_021167.1	Ca_Kabuli_Chr08	5720118	TT	AA	AA	URR	101499842	auxin-induced protein 15A
SNP_59048_A_5720123	NC_021167.1	Ca_Kabuli_Chr08	5720123	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59049_A_5720149	NC_021167.1	Ca_Kabuli_Chr08	5720149	CC	TT	TT	URR	101499842	auxin-induced protein 15A
SNP_59050_A_5724683	NC_021167.1	Ca_Kabuli_Chr08	5724683	TT	AA	AA	DRR	101508826	uncharacterized LOC101508826
SNP_59051_A_5733076	NC_021167.1	Ca_Kabuli_Chr08	5733076	CC	TT	TT	INTERGENIC		
SNP_59052_A_5790937	NC_021167.1	Ca_Kabuli_Chr08	5790937	CC	TT	TT	INTERGENIC		
SNP_59054_A_5878933	NC_021167.1	Ca_Kabuli_Chr08	5878933	GG	AA	AA	INTERGENIC		
SNP_59055_A_5879022	NC_021167.1	Ca_Kabuli_Chr08	5879022	GG	AA	AA	INTERGENIC		
SNP_59056_A_5879126	NC_021167.1	Ca_Kabuli_Chr08	5879126	AA	GG	GG	INTERGENIC		
SNP_59057_A_5925420	NC_021167.1	Ca_Kabuli_Chr08	5925420	CC	TT	TT	DRR	101506262	26S proteasome non-ATPase regulatory subunit 4 homolog
SNP_59058_A_5944256	NC_021167.1	Ca_Kabuli_Chr08	5944256	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59059_A_5963342	NC_021167.1	Ca_Kabuli_Chr08	5963342	AA	GG	GG	DRR	101508187	uncharacterized protein At2g29880-like
SNP_59060_A_5968735	NC_021167.1	Ca_Kabuli_Chr08	5968735	TT	CC	CC	INTRON	101508512	rac-like GTP-binding protein RHO1
SNP_59061_A_6014162	NC_021167.1	Ca_Kabuli_Chr08	6014162	TT	CC	CC	INTERGENIC		
SNP_59062_A_6017395	NC_021167.1	Ca_Kabuli_Chr08	6017395	GG	AA	AA	INTERGENIC		
SNP_59064_A_6056125	NC_021167.1	Ca_Kabuli_Chr08	6056125	CC	TT	TT	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59065_A_6056214	NC_021167.1	Ca_Kabuli_Chr08	6056214	TT	GG	GG	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59066_A_6056427	NC_021167.1	Ca_Kabuli_Chr08	6056427	TT	GG	GG	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59067_A_6056450	NC_021167.1	Ca_Kabuli_Chr08	6056450	AA	GG	GG	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59068_A_6056487	NC_021167.1	Ca_Kabuli_Chr08	6056487	TT	CC	CC	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59069_A_6056496	NC_021167.1	Ca_Kabuli_Chr08	6056496	TT	CC	CC	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59071_A_6056626	NC_021167.1	Ca_Kabuli_Chr08	6056626	AA	GG	GG	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_59072_A_6066992	NC_021167.1	Ca_Kabuli_Chr08	6066992	GG	TT	TT	INTERGENIC		
SNP_59073_A_6082364	NC_021167.1	Ca_Kabuli_Chr08	6082364	GG	AA	AA	URR	101513337	F-box protein At3g07870-like
SNP_59074_A_6082464	NC_021167.1	Ca_Kabuli_Chr08	6082464	CC	AA	AA	URR	101513337	F-box protein At3g07870-like
SNP_59075_A_6086814	NC_021167.1	Ca_Kabuli_Chr08	6086814	GG	AA	AA	INTERGENIC		
SNP_59076_A_6086921	NC_021167.1	Ca_Kabuli_Chr08	6086921	AA	GG	GG	INTERGENIC		
SNP_59077_A_6087577	NC_021167.1	Ca_Kabuli_Chr08	6087577	AA	TT	TT	INTERGENIC		
SNP_59078_A_6087639	NC_021167.1	Ca_Kabuli_Chr08	6087639	TT	AA	AA	INTERGENIC		
SNP_59079_A_6087664	NC_021167.1	Ca_Kabuli_Chr08	6087664	AA	GG	GG	INTERGENIC		
SNP_59080_A_6087967	NC_021167.1	Ca_Kabuli_Chr08	6087967	TT	GG	GG	INTERGENIC		
SNP_59081_A_6094768	NC_021167.1	Ca_Kabuli_Chr08	6094768	AA	GG	GG	INTERGENIC		
SNP_59082_A_6098399	NC_021167.1	Ca_Kabuli_Chr08	6098399	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59083_A_6098400	NC_021167.1	Ca_Kabuli_Chr08	6098400	AA	CC	CC	INTERGENIC		
SNP_59085_A_6109972	NC_021167.1	Ca_Kabuli_Chr08	6109972	TT	CC	CC	URR	101513991	la-related protein 1B-like
SNP_59086_A_6128055	NC_021167.1	Ca_Kabuli_Chr08	6128055	GG	AA	AA	INTERGENIC		
SNP_59087_A_6128984	NC_021167.1	Ca_Kabuli_Chr08	6128984	AA	GG	GG	INTERGENIC		
SNP_59088_A_6129406	NC_021167.1	Ca_Kabuli_Chr08	6129406	AA	GG	GG	INTERGENIC		
SNP_59089_A_6132282	NC_021167.1	Ca_Kabuli_Chr08	6132282	CC	TT	TT	INTERGENIC		
SNP_59090_A_6248937	NC_021167.1	Ca_Kabuli_Chr08	6248937	CC	AA	AA	URR	101493154	uncharacterized LOC101493154
SNP_59092_A_6301111	NC_021167.1	Ca_Kabuli_Chr08	6301111	GG	AA	AA	INTERGENIC		
SNP_59093_A_6301121	NC_021167.1	Ca_Kabuli_Chr08	6301121	AA	GG	GG	INTERGENIC		
SNP_59094_A_6301413	NC_021167.1	Ca_Kabuli_Chr08	6301413	GG	TT	TT	INTERGENIC		
SNP_59095_A_6307062	NC_021167.1	Ca_Kabuli_Chr08	6307062	GG	AA	AA	INTERGENIC		
SNP_59097_A_6307197	NC_021167.1	Ca_Kabuli_Chr08	6307197	CC	TT	TT	INTERGENIC		
SNP_59098_A_6307283	NC_021167.1	Ca_Kabuli_Chr08	6307283	TT	CC	CC	INTERGENIC		
SNP_59099_A_6307426	NC_021167.1	Ca_Kabuli_Chr08	6307426	TT	CC	CC	INTERGENIC		
SNP_59100_A_6307460	NC_021167.1	Ca_Kabuli_Chr08	6307460	GG	AA	AA	INTERGENIC		
SNP_59101_A_6307971	NC_021167.1	Ca_Kabuli_Chr08	6307971	TT	CC	CC	DRR	101515397	ganglioside-induced differentiation-associated protein 2
SNP_59102_A_6318531	NC_021167.1	Ca_Kabuli_Chr08	6318531	CC	TT	TT	INTERGENIC		
SNP_59103_A_6330284	NC_021167.1	Ca_Kabuli_Chr08	6330284	GG	AA	AA	INTERGENIC		
SNP_59104_A_6330288	NC_021167.1	Ca_Kabuli_Chr08	6330288	CC	TT	TT	INTERGENIC		
SNP_59105_A_6364306	NC_021167.1	Ca_Kabuli_Chr08	6364306	CC	TT	TT	URR	101490015	lysine histidine transporter-like 8
SNP_59106_A_6383028	NC_021167.1	Ca_Kabuli_Chr08	6383028	AA	GG	GG	INTERGENIC		
SNP_59107_A_6397407	NC_021167.1	Ca_Kabuli_Chr08	6397407	GG	AA	AA	URR	101493801	putative DNA (cytosine-5)-methyltransferase CMT1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59108_A_6408395	NC_021167.1	Ca_Kabuli_Chr08	6408395	TT	AA	AA	INTRON	101490678	probable acyl-activating enzyme 1, peroxisomal
SNP_59109_A_6422465	NC_021167.1	Ca_Kabuli_Chr08	6422465	AA	GG	GG	INTERGENIC		
SNP_59111_A_6492087	NC_021167.1	Ca_Kabuli_Chr08	6492087	TT	GG	GG	NON_SYNONYMOUS_CODING	101493063	G2/mitotic-specific cyclin-1-like
SNP_59112_A_6492381	NC_021167.1	Ca_Kabuli_Chr08	6492381	CC	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59114_A_6492558	NC_021167.1	Ca_Kabuli_Chr08	6492558	TT	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59116_A_6492640	NC_021167.1	Ca_Kabuli_Chr08	6492640	CC	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59117_A_6492679	NC_021167.1	Ca_Kabuli_Chr08	6492679	CC	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59119_A_6492771	NC_021167.1	Ca_Kabuli_Chr08	6492771	AA	GG	GG	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59120_A_6492900	NC_021167.1	Ca_Kabuli_Chr08	6492900	GG	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59121_A_6492902	NC_021167.1	Ca_Kabuli_Chr08	6492902	AA	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59122_A_6492934	NC_021167.1	Ca_Kabuli_Chr08	6492934	AA	CC	CC	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59123_A_6493025	NC_021167.1	Ca_Kabuli_Chr08	6493025	AA	GG	GG	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59124_A_6493146	NC_021167.1	Ca_Kabuli_Chr08	6493146	TT	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59125_A_6493207	NC_021167.1	Ca_Kabuli_Chr08	6493207	CC	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59126_A_6493236	NC_021167.1	Ca_Kabuli_Chr08	6493236	CC	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59127_A_6493272	NC_021167.1	Ca_Kabuli_Chr08	6493272	CC	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59128_A_6493303	NC_021167.1	Ca_Kabuli_Chr08	6493303	AA	GG	GG	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59129_A_6493307	NC_021167.1	Ca_Kabuli_Chr08	6493307	AA	TT	TT	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59131_A_6493408	NC_021167.1	Ca_Kabuli_Chr08	6493408	GG	CC	CC	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59132_A_6493411	NC_021167.1	Ca_Kabuli_Chr08	6493411	GG	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59133_A_6493412	NC_021167.1	Ca_Kabuli_Chr08	6493412	AA	CC	CC	URR	101493063	G2/mitotic-specific cyclin-1-like
SNP_59134_A_6493415	NC_021167.1	Ca_Kabuli_Chr08	6493415	GG	AA	AA	URR	101493063	G2/mitotic-specific cyclin-1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59135_A_6493442	NC_021167.1	Ca_Kabuli_Chr08	6493442	CC	TT	TT	URR		101493063	G2/mitotic-specific cyclin-1-like
SNP_59136_A_6493444	NC_021167.1	Ca_Kabuli_Chr08	6493444	AA	GG	GG	URR		101493063	G2/mitotic-specific cyclin-1-like
SNP_59137_A_6493461	NC_021167.1	Ca_Kabuli_Chr08	6493461	CC	TT	TT	URR		101493063	G2/mitotic-specific cyclin-1-like
SNP_59138_A_6527640	NC_021167.1	Ca_Kabuli_Chr08	6527640	CC	TT	TT	URR		101494971	60S ribosomal protein L10-like
SNP_59139_A_6530834	NC_021167.1	Ca_Kabuli_Chr08	6530834	CC	TT	TT	INTERGENIC			
SNP_59140_A_6532252	NC_021167.1	Ca_Kabuli_Chr08	6532252	TT	AA	AA	INTERGENIC			
SNP_59141_A_6621402	NC_021167.1	Ca_Kabuli_Chr08	6621402	GG	AA	AA	INTERGENIC			
SNP_59142_A_6636831	NC_021167.1	Ca_Kabuli_Chr08	6636831	GG	AA	AA	INTERGENIC			
SNP_59143_A_6665269	NC_021167.1	Ca_Kabuli_Chr08	6665269	CC	AA	AA	DRR		101500178	DNA mismatch repair protein MLH3
SNP_59144_A_6850176	NC_021167.1	Ca_Kabuli_Chr08	6850176	TT	CC	CC	INTRON		101495300	putative protease Do-like 14
SNP_59145_A_6850188	NC_021167.1	Ca_Kabuli_Chr08	6850188	TT	CC	CC	INTRON		101495300	putative protease Do-like 14
SNP_59147_A_6907817	NC_021167.1	Ca_Kabuli_Chr08	6907817	AA	TT	TT	INTERGENIC			
SNP_59148_A_6918847	NC_021167.1	Ca_Kabuli_Chr08	6918847	AA	GG	GG	INTERGENIC			
SNP_59149_A_6996577	NC_021167.1	Ca_Kabuli_Chr08	6996577	TT	GG	GG	DRR		101495624	Unknown function
SNP_59150_A_7022864	NC_021167.1	Ca_Kabuli_Chr08	7022864	TT	AA	AA	INTERGENIC			
SNP_59151_A_7030370	NC_021167.1	Ca_Kabuli_Chr08	7030370	TT	AA	AA	INTERGENIC			
SNP_59153_A_7133603	NC_021167.1	Ca_Kabuli_Chr08	7133603	GG	AA	AA	INTRON		101513757	chitinase domain-containing protein 1
SNP_59154_A_7133618	NC_021167.1	Ca_Kabuli_Chr08	7133618	GG	CC	CC	NON_SYNONYMOUS_CODING		101513757	chitinase domain-containing protein 1
SNP_59155_A_7133653	NC_021167.1	Ca_Kabuli_Chr08	7133653	TT	AA	AA	SYNONYMOUS_CODING		101513757	chitinase domain-containing protein 1
SNP_59156_A_7155432	NC_021167.1	Ca_Kabuli_Chr08	7155432	TT	GG	GG	DRR		101496930	protein FAR-RED IMPAIRED RESPONSE 1-like
SNP_59157_A_7155553	NC_021167.1	Ca_Kabuli_Chr08	7155553	CC	TT	TT	URR		101515503	zinc finger MYM-type protein 1-like
SNP_59158_A_7155831	NC_021167.1	Ca_Kabuli_Chr08	7155831	TT	CC	CC	URR		101515503	zinc finger MYM-type protein 1-like

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SNP_59159_A_7160934	NC_021167.1	Ca_Kabuli_Chr08	7160934	AA	GG	GG	INTERGENIC		
SNP_59161_A_7221696	NC_021167.1	Ca_Kabuli_Chr08	7221696	TT	CC	CC	INTRON	101490679	abscisic acid 8'-hydroxylase 1-like
SNP_59162_A_7221698	NC_021167.1	Ca_Kabuli_Chr08	7221698	AA	CC	CC	INTRON	101490679	abscisic acid 8'-hydroxylase 1-like
SNP_59165_A_7350303	NC_021167.1	Ca_Kabuli_Chr08	7350303	TT	GG	GG	URR	101498568	probable LRR receptor-like serine/threonine-protein kinase At3g47570
SNP_59167_A_7368904	NC_021167.1	Ca_Kabuli_Chr08	7368904	TT	CC	CC	DRR	101495623	rop guanine nucleotide exchange factor 14
SNP_59168_A_7473156	NC_021167.1	Ca_Kabuli_Chr08	7473156	AA	CC	CC	INTERGENIC		
SNP_59169_A_7473158	NC_021167.1	Ca_Kabuli_Chr08	7473158	AA	CC	CC	INTERGENIC		
SNP_59170_A_7524403	NC_021167.1	Ca_Kabuli_Chr08	7524403	AA	GG	GG	DRR	101502517	ankyrin repeat and protein kinase domain-containing protein 1 like
SNP_59171_A_7524404	NC_021167.1	Ca_Kabuli_Chr08	7524404	AA	CC	CC	DRR	101502517	ankyrin repeat and protein kinase domain-containing protein 1 like
SNP_59172_A_7563385	NC_021167.1	Ca_Kabuli_Chr08	7563385	GG	TT	TT	INTERGENIC		
SNP_59174_A_7563641	NC_021167.1	Ca_Kabuli_Chr08	7563641	CC	GG	GG	INTERGENIC		
SNP_59175_A_7563696	NC_021167.1	Ca_Kabuli_Chr08	7563696	AA	GG	GG	INTERGENIC		
SNP_59176_A_7563737	NC_021167.1	Ca_Kabuli_Chr08	7563737	AA	GG	GG	INTERGENIC		
SNP_59177_A_7651509	NC_021167.1	Ca_Kabuli_Chr08	7651509	TT	AA	AA	INTERGENIC		
SNP_59178_A_7651651	NC_021167.1	Ca_Kabuli_Chr08	7651651	AA	TT	TT	INTERGENIC		
SNP_59180_A_7749874	NC_021167.1	Ca_Kabuli_Chr08	7749874	TT	CC	CC	INTERGENIC		
SNP_59181_A_7775331	NC_021167.1	Ca_Kabuli_Chr08	7775331	AA	TT	TT	INTERGENIC		
SNP_59182_A_7775357	NC_021167.1	Ca_Kabuli_Chr08	7775357	GG	CC	CC	INTERGENIC		
SNP_59183_A_7775599	NC_021167.1	Ca_Kabuli_Chr08	7775599	TT	CC	CC	INTERGENIC		
SNP_59184_A_7775610	NC_021167.1	Ca_Kabuli_Chr08	7775610	TT	CC	CC	INTERGENIC		
SNP_59185_A_7775641	NC_021167.1	Ca_Kabuli_Chr08	7775641	TT	CC	CC	INTERGENIC		
SNP_59186_A_7775663	NC_021167.1	Ca_Kabuli_Chr08	7775663	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59187_A_7775667	NC_021167.1	Ca_Kabuli_Chr08	7775667	CC	TT	TT	INTERGENIC			
SNP_59188_A_7775693	NC_021167.1	Ca_Kabuli_Chr08	7775693	CC	TT	TT	INTERGENIC			
SNP_59189_A_7775708	NC_021167.1	Ca_Kabuli_Chr08	7775708	CC	TT	TT	INTERGENIC			
SNP_59190_A_7775720	NC_021167.1	Ca_Kabuli_Chr08	7775720	GG	AA	AA	INTERGENIC			
SNP_59191_A_7775822	NC_021167.1	Ca_Kabuli_Chr08	7775822	GG	AA	AA	INTERGENIC			
SNP_59192_A_7775860	NC_021167.1	Ca_Kabuli_Chr08	7775860	TT	AA	AA	INTERGENIC			
SNP_59193_A_7775861	NC_021167.1	Ca_Kabuli_Chr08	7775861	GG	CC	CC	INTERGENIC			
SNP_59194_A_7775908	NC_021167.1	Ca_Kabuli_Chr08	7775908	TT	GG	GG	INTERGENIC			
SNP_59195_A_7776014	NC_021167.1	Ca_Kabuli_Chr08	7776014	GG	TT	TT	INTERGENIC			
SNP_59196_A_7776018	NC_021167.1	Ca_Kabuli_Chr08	7776018	CC	TT	TT	INTERGENIC			
SNP_59197_A_7776041	NC_021167.1	Ca_Kabuli_Chr08	7776041	AA	CC	CC	INTERGENIC			
SNP_59198_A_7776042	NC_021167.1	Ca_Kabuli_Chr08	7776042	CC	TT	TT	INTERGENIC			
SNP_59199_A_7776130	NC_021167.1	Ca_Kabuli_Chr08	7776130	TT	AA	AA	INTERGENIC			
SNP_59200_A_7776186	NC_021167.1	Ca_Kabuli_Chr08	7776186	GG	AA	AA	INTERGENIC			
SNP_59201_A_7777195	NC_021167.1	Ca_Kabuli_Chr08	7777195	TT	CC	CC	INTERGENIC			
SNP_59202_A_7777312	NC_021167.1	Ca_Kabuli_Chr08	7777312	AA	CC	CC	INTERGENIC			
SNP_59203_A_7777396	NC_021167.1	Ca_Kabuli_Chr08	7777396	AA	GG	GG	INTERGENIC			
SNP_59204_A_7777469	NC_021167.1	Ca_Kabuli_Chr08	7777469	TT	GG	GG	INTERGENIC			
SNP_59205_A_7777497	NC_021167.1	Ca_Kabuli_Chr08	7777497	AA	TT	TT	INTERGENIC			
SNP_59206_A_7777547	NC_021167.1	Ca_Kabuli_Chr08	7777547	GG	TT	TT	INTERGENIC			
SNP_59207_A_7777575	NC_021167.1	Ca_Kabuli_Chr08	7777575	GG	AA	AA	INTERGENIC			
SNP_59208_A_7777641	NC_021167.1	Ca_Kabuli_Chr08	7777641	AA	CC	CC	INTERGENIC			

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SNP_59210_A_7777741	NC_021167.1	Ca_Kabuli_Chr08	7777741	GG	CC	CC	INTERGENIC		
SNP_59211_A_7777749	NC_021167.1	Ca_Kabuli_Chr08	7777749	GG	CC	CC	INTERGENIC		
SNP_59212_A_7777920	NC_021167.1	Ca_Kabuli_Chr08	7777920	CC	TT	TT	INTERGENIC		
SNP_59213_A_7777971	NC_021167.1	Ca_Kabuli_Chr08	7777971	GG	CC	CC	INTERGENIC		
SNP_59214_A_7777973	NC_021167.1	Ca_Kabuli_Chr08	7777973	TT	CC	CC	INTERGENIC		
SNP_59215_A_7778075	NC_021167.1	Ca_Kabuli_Chr08	7778075	CC	TT	TT	INTERGENIC		
SNP_59216_A_7778090	NC_021167.1	Ca_Kabuli_Chr08	7778090	CC	GG	GG	INTERGENIC		
SNP_59217_A_7778124	NC_021167.1	Ca_Kabuli_Chr08	7778124	AA	GG	GG	INTERGENIC		
SNP_59218_A_7802500	NC_021167.1	Ca_Kabuli_Chr08	7802500	TT	CC	CC	URR	101515300	protein PAM68, chloroplastic
SNP_59219_A_7802649	NC_021167.1	Ca_Kabuli_Chr08	7802649	TT	GG	GG	URR	101515300	protein PAM68, chloroplastic
SNP_59220_A_7802681	NC_021167.1	Ca_Kabuli_Chr08	7802681	TT	CC	CC	URR	101515300	protein PAM68, chloroplastic
SNP_59221_A_7802902	NC_021167.1	Ca_Kabuli_Chr08	7802902	CC	TT	TT	URR	101515300	protein PAM68, chloroplastic
SNP_59222_A_7802913	NC_021167.1	Ca_Kabuli_Chr08	7802913	AA	CC	CC	URR	101515300	protein PAM68, chloroplastic
SNP_59223_A_7802951	NC_021167.1	Ca_Kabuli_Chr08	7802951	AA	GG	GG	URR	101515300	protein PAM68, chloroplastic
SNP_59224_A_7802999	NC_021167.1	Ca_Kabuli_Chr08	7802999	TT	CC	CC	URR	101515300	protein PAM68, chloroplastic
SNP_59225_A_7881254	NC_021167.1	Ca_Kabuli_Chr08	7881254	TT	CC	CC	INTERGENIC		
SNP_59226_A_7883652	NC_021167.1	Ca_Kabuli_Chr08	7883652	AA	TT	TT	INTERGENIC		
SNP_59227_A_7883656	NC_021167.1	Ca_Kabuli_Chr08	7883656	AA	TT	TT	INTERGENIC		
SNP_59228_A_7883661	NC_021167.1	Ca_Kabuli_Chr08	7883661	GG	AA	AA	INTERGENIC		
SNP_59229_A_7883664	NC_021167.1	Ca_Kabuli_Chr08	7883664	TT	AA	AA	INTERGENIC		
SNP_59230_A_7884027	NC_021167.1	Ca_Kabuli_Chr08	7884027	GG	AA	AA	INTERGENIC		
SNP_59231_A_7884445	NC_021167.1	Ca_Kabuli_Chr08	7884445	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59232_A_7895893	NC_021167.1	Ca_Kabuli_Chr08	7895893	GG	AA	AA	INTERGENIC			
SNP_59233_A_7895991	NC_021167.1	Ca_Kabuli_Chr08	7895991	GG	AA	AA	INTERGENIC			
SNP_59234_A_7895999	NC_021167.1	Ca_Kabuli_Chr08	7895999	AA	TT	TT	INTERGENIC			
SNP_59235_A_7896042	NC_021167.1	Ca_Kabuli_Chr08	7896042	GG	AA	AA	INTERGENIC			
SNP_59236_A_7896046	NC_021167.1	Ca_Kabuli_Chr08	7896046	GG	TT	TT	INTERGENIC			
SNP_59237_A_7896049	NC_021167.1	Ca_Kabuli_Chr08	7896049	AA	GG	GG	INTERGENIC			
SNP_59238_A_7896112	NC_021167.1	Ca_Kabuli_Chr08	7896112	TT	CC	CC	INTERGENIC			
SNP_59239_A_7896293	NC_021167.1	Ca_Kabuli_Chr08	7896293	CC	TT	TT	INTERGENIC			
SNP_59240_A_7896312	NC_021167.1	Ca_Kabuli_Chr08	7896312	TT	CC	CC	INTERGENIC			
SNP_59241_A_7896320	NC_021167.1	Ca_Kabuli_Chr08	7896320	AA	GG	GG	INTERGENIC			
SNP_59242_A_7896332	NC_021167.1	Ca_Kabuli_Chr08	7896332	GG	AA	AA	INTERGENIC			
SNP_59243_A_7896398	NC_021167.1	Ca_Kabuli_Chr08	7896398	TT	GG	GG	INTERGENIC			
SNP_59244_A_7896415	NC_021167.1	Ca_Kabuli_Chr08	7896415	TT	CC	CC	INTERGENIC			
SNP_59245_A_7896435	NC_021167.1	Ca_Kabuli_Chr08	7896435	GG	AA	AA	INTERGENIC			
SNP_59247_A_7896493	NC_021167.1	Ca_Kabuli_Chr08	7896493	CC	TT	TT	INTERGENIC			
SNP_59248_A_7896496	NC_021167.1	Ca_Kabuli_Chr08	7896496	GG	TT	TT	INTERGENIC			
SNP_59249_A_7896510	NC_021167.1	Ca_Kabuli_Chr08	7896510	GG	CC	CC	INTERGENIC			
SNP_59250_A_7896514	NC_021167.1	Ca_Kabuli_Chr08	7896514	TT	CC	CC	INTERGENIC			
SNP_59251_A_7896534	NC_021167.1	Ca_Kabuli_Chr08	7896534	TT	GG	GG	INTERGENIC			
SNP_59252_A_7896561	NC_021167.1	Ca_Kabuli_Chr08	7896561	CC	AA	AA	INTERGENIC			
SNP_59253_A_7896598	NC_021167.1	Ca_Kabuli_Chr08	7896598	AA	CC	CC	INTERGENIC			
SNP_59254_A_7896605	NC_021167.1	Ca_Kabuli_Chr08	7896605	GG	AA	AA	INTERGENIC			

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SNP_59255_A_7900650	NC_021167.1	Ca_Kabuli_Chr08	7900650	GG	AA	AA	INTERGENIC		
SNP_59256_A_7900881	NC_021167.1	Ca_Kabuli_Chr08	7900881	AA	CC	CC	INTERGENIC		
SNP_59258_A_7912478	NC_021167.1	Ca_Kabuli_Chr08	7912478	TT	CC	CC	INTERGENIC		
SNP_59259_A_7913527	NC_021167.1	Ca_Kabuli_Chr08	7913527	AA	TT	TT	INTERGENIC		
SNP_59261_A_7913793	NC_021167.1	Ca_Kabuli_Chr08	7913793	GG	AA	AA	INTERGENIC		
SNP_59262_A_7913842	NC_021167.1	Ca_Kabuli_Chr08	7913842	CC	AA	AA	INTERGENIC		
SNP_59263_A_7924368	NC_021167.1	Ca_Kabuli_Chr08	7924368	TT	CC	CC	INTERGENIC		
SNP_59264_A_7925053	NC_021167.1	Ca_Kabuli_Chr08	7925053	TT	AA	AA	DRR	101515507	uncharacterized LOC101515507
SNP_59265_A_7925141	NC_021167.1	Ca_Kabuli_Chr08	7925141	AA	TT	TT	DRR	101515507	uncharacterized LOC101515507
SNP_59266_A_7925248	NC_021167.1	Ca_Kabuli_Chr08	7925248	AA	GG	GG	DRR	101515507	uncharacterized LOC101515507
SNP_59267_A_7926135	NC_021167.1	Ca_Kabuli_Chr08	7926135	AA	GG	GG	INTERGENIC		
SNP_59268_A_7927164	NC_021167.1	Ca_Kabuli_Chr08	7927164	TT	CC	CC	DRR	101501141	elongation factor 1-alpha-like
SNP_59269_A_7927198	NC_021167.1	Ca_Kabuli_Chr08	7927198	AA	CC	CC	DRR	101501141	elongation factor 1-alpha-like
SNP_59270_A_7927213	NC_021167.1	Ca_Kabuli_Chr08	7927213	GG	AA	AA	DRR	101501141	elongation factor 1-alpha-like
SNP_59272_A_7927527	NC_021167.1	Ca_Kabuli_Chr08	7927527	AA	GG	GG	DRR	101501141	elongation factor 1-alpha-like
SNP_59274_A_7927631	NC_021167.1	Ca_Kabuli_Chr08	7927631	GG	AA	AA	DRR	101501141	elongation factor 1-alpha-like
SNP_59276_A_7927695	NC_021167.1	Ca_Kabuli_Chr08	7927695	CC	GG	GG	DRR	101501141	elongation factor 1-alpha-like
SNP_59277_A_7927931	NC_021167.1	Ca_Kabuli_Chr08	7927931	TT	AA	AA	URR	101515507	uncharacterized LOC101515507
SNP_59278_A_7936051	NC_021167.1	Ca_Kabuli_Chr08	7936051	CC	TT	TT	INTERGENIC		
SNP_59279_A_7937621	NC_021167.1	Ca_Kabuli_Chr08	7937621	AA	GG	GG	INTERGENIC		
SNP_59280_A_7937636	NC_021167.1	Ca_Kabuli_Chr08	7937636	AA	CC	CC	INTERGENIC		
SNP_59281_A_7937655	NC_021167.1	Ca_Kabuli_Chr08	7937655	TT	CC	CC	INTERGENIC		

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SNP_59282_A_7937704	NC_021167.1	Ca_Kabuli_Chr08	7937704	GG	AA	AA	INTERGENIC			
SNP_59283_A_7937708	NC_021167.1	Ca_Kabuli_Chr08	7937708	AA	CC	CC	INTERGENIC			
SNP_59284_A_7937763	NC_021167.1	Ca_Kabuli_Chr08	7937763	AA	TT	TT	INTERGENIC			
SNP_59285_A_7937771	NC_021167.1	Ca_Kabuli_Chr08	7937771	TT	CC	CC	INTERGENIC			
SNP_59286_A_7937774	NC_021167.1	Ca_Kabuli_Chr08	7937774	AA	GG	GG	INTERGENIC			
SNP_59287_A_7937828	NC_021167.1	Ca_Kabuli_Chr08	7937828	GG	AA	AA	INTERGENIC			
SNP_59288_A_7937847	NC_021167.1	Ca_Kabuli_Chr08	7937847	TT	CC	CC	INTERGENIC			
SNP_59289_A_7937881	NC_021167.1	Ca_Kabuli_Chr08	7937881	GG	AA	AA	INTERGENIC			
SNP_59290_A_7937891	NC_021167.1	Ca_Kabuli_Chr08	7937891	AA	CC	CC	INTERGENIC			
SNP_59291_A_7937907	NC_021167.1	Ca_Kabuli_Chr08	7937907	GG	AA	AA	INTERGENIC			
SNP_59292_A_7937908	NC_021167.1	Ca_Kabuli_Chr08	7937908	TT	AA	AA	INTERGENIC			
SNP_59293_A_7937924	NC_021167.1	Ca_Kabuli_Chr08	7937924	GG	CC	CC	INTERGENIC			
SNP_59294_A_7937952	NC_021167.1	Ca_Kabuli_Chr08	7937952	AA	GG	GG	INTERGENIC			
SNP_59295_A_7938027	NC_021167.1	Ca_Kabuli_Chr08	7938027	AA	GG	GG	INTERGENIC			
SNP_59296_A_7938028	NC_021167.1	Ca_Kabuli_Chr08	7938028	AA	TT	TT	INTERGENIC			
SNP_59297_A_7938076	NC_021167.1	Ca_Kabuli_Chr08	7938076	CC	TT	TT	INTERGENIC			
SNP_59298_A_7938126	NC_021167.1	Ca_Kabuli_Chr08	7938126	AA	GG	GG	INTERGENIC			
SNP_59299_A_7938199	NC_021167.1	Ca_Kabuli_Chr08	7938199	AA	TT	TT	INTERGENIC			
SNP_59300_A_7943988	NC_021167.1	Ca_Kabuli_Chr08	7943988	CC	AA	AA	INTERGENIC			
SNP_59301_A_7944316	NC_021167.1	Ca_Kabuli_Chr08	7944316	CC	TT	TT	INTERGENIC			
SNP_59302_A_7947141	NC_021167.1	Ca_Kabuli_Chr08	7947141	TT	AA	AA	INTERGENIC			
SNP_59303_A_7947989	NC_021167.1	Ca_Kabuli_Chr08	7947989	TT	CC	CC	INTERGENIC			

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SNP_59304_A_7948046	NC_021167.1	Ca_Kabuli_Chr08	7948046	TT	AA	AA	INTERGENIC			
SNP_59305_A_7948133	NC_021167.1	Ca_Kabuli_Chr08	7948133	AA	GG	GG	INTERGENIC			
SNP_59308_A_7948284	NC_021167.1	Ca_Kabuli_Chr08	7948284	GG	AA	AA	INTERGENIC			
SNP_59309_A_7948305	NC_021167.1	Ca_Kabuli_Chr08	7948305	AA	TT	TT	INTERGENIC			
SNP_59310_A_7948698	NC_021167.1	Ca_Kabuli_Chr08	7948698	CC	TT	TT	INTERGENIC			
SNP_59311_A_7950275	NC_021167.1	Ca_Kabuli_Chr08	7950275	TT	GG	GG	INTERGENIC			
SNP_59312_A_7950287	NC_021167.1	Ca_Kabuli_Chr08	7950287	TT	CC	CC	INTERGENIC			
SNP_59313_A_7950332	NC_021167.1	Ca_Kabuli_Chr08	7950332	AA	GG	GG	INTERGENIC			
SNP_59314_A_7950502	NC_021167.1	Ca_Kabuli_Chr08	7950502	CC	GG	GG	INTERGENIC			
SNP_59316_A_7950594	NC_021167.1	Ca_Kabuli_Chr08	7950594	CC	TT	TT	INTERGENIC			
SNP_59317_A_7950821	NC_021167.1	Ca_Kabuli_Chr08	7950821	CC	TT	TT	INTERGENIC			
SNP_59318_A_7950866	NC_021167.1	Ca_Kabuli_Chr08	7950866	TT	CC	CC	INTERGENIC			
SNP_59319_A_7951166	NC_021167.1	Ca_Kabuli_Chr08	7951166	TT	CC	CC	INTERGENIC			
SNP_59320_A_7951190	NC_021167.1	Ca_Kabuli_Chr08	7951190	AA	GG	GG	INTERGENIC			
SNP_59321_A_7951234	NC_021167.1	Ca_Kabuli_Chr08	7951234	TT	AA	AA	INTERGENIC			
SNP_59322_A_7951383	NC_021167.1	Ca_Kabuli_Chr08	7951383	TT	CC	CC	INTERGENIC			
SNP_59323_A_7951394	NC_021167.1	Ca_Kabuli_Chr08	7951394	AA	GG	GG	INTERGENIC			
SNP_59324_A_7951399	NC_021167.1	Ca_Kabuli_Chr08	7951399	CC	TT	TT	INTERGENIC			
SNP_59325_A_7951454	NC_021167.1	Ca_Kabuli_Chr08	7951454	CC	TT	TT	INTERGENIC			
SNP_59326_A_7951514	NC_021167.1	Ca_Kabuli_Chr08	7951514	CC	GG	GG	INTERGENIC			
SNP_59327_A_7951523	NC_021167.1	Ca_Kabuli_Chr08	7951523	CC	TT	TT	INTERGENIC			
SNP_59328_A_7951658	NC_021167.1	Ca_Kabuli_Chr08	7951658	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59329_A_7951735	NC_021167.1	Ca_Kabuli_Chr08	7951735	TT	CC	CC	INTERGENIC			
SNP_59330_A_7951815	NC_021167.1	Ca_Kabuli_Chr08	7951815	TT	CC	CC	INTERGENIC			
SNP_59332_A_7952016	NC_021167.1	Ca_Kabuli_Chr08	7952016	CC	TT	TT	INTERGENIC			
SNP_59333_A_7952042	NC_021167.1	Ca_Kabuli_Chr08	7952042	AA	GG	GG	INTERGENIC			
SNP_59334_A_7952123	NC_021167.1	Ca_Kabuli_Chr08	7952123	TT	CC	CC	INTERGENIC			
SNP_59335_A_7952131	NC_021167.1	Ca_Kabuli_Chr08	7952131	GG	AA	AA	INTERGENIC			
SNP_59336_A_7952340	NC_021167.1	Ca_Kabuli_Chr08	7952340	TT	GG	GG	INTERGENIC			
SNP_59337_A_7952434	NC_021167.1	Ca_Kabuli_Chr08	7952434	AA	CC	CC	INTERGENIC			
SNP_59338_A_7952546	NC_021167.1	Ca_Kabuli_Chr08	7952546	GG	CC	CC	INTERGENIC			
SNP_59340_A_7952633	NC_021167.1	Ca_Kabuli_Chr08	7952633	TT	CC	CC	INTERGENIC			
SNP_59341_A_7952636	NC_021167.1	Ca_Kabuli_Chr08	7952636	AA	GG	GG	INTERGENIC			
SNP_59342_A_7952665	NC_021167.1	Ca_Kabuli_Chr08	7952665	GG	CC	CC	INTERGENIC			
SNP_59343_A_7952737	NC_021167.1	Ca_Kabuli_Chr08	7952737	CC	AA	AA	INTERGENIC			
SNP_59344_A_7952773	NC_021167.1	Ca_Kabuli_Chr08	7952773	GG	CC	CC	INTERGENIC			
SNP_59345_A_7952810	NC_021167.1	Ca_Kabuli_Chr08	7952810	AA	TT	TT	INTERGENIC			
SNP_59346_A_7952822	NC_021167.1	Ca_Kabuli_Chr08	7952822	AA	GG	GG	INTERGENIC			
SNP_59347_A_7952831	NC_021167.1	Ca_Kabuli_Chr08	7952831	AA	TT	TT	INTERGENIC			
SNP_59348_A_7952837	NC_021167.1	Ca_Kabuli_Chr08	7952837	GG	CC	CC	INTERGENIC			
SNP_59349_A_7952840	NC_021167.1	Ca_Kabuli_Chr08	7952840	CC	AA	AA	INTERGENIC			
SNP_59350_A_7952860	NC_021167.1	Ca_Kabuli_Chr08	7952860	AA	TT	TT	INTERGENIC			
SNP_59351_A_7952924	NC_021167.1	Ca_Kabuli_Chr08	7952924	GG	AA	AA	INTERGENIC			
SNP_59352_A_7953020	NC_021167.1	Ca_Kabuli_Chr08	7953020	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59353_A_7953024	NC_021167.1	Ca_Kabuli_Chr08	7953024	AA	GG	GG	INTERGENIC			
SNP_59354_A_7953046	NC_021167.1	Ca_Kabuli_Chr08	7953046	GG	AA	AA	INTERGENIC			
SNP_59356_A_7953116	NC_021167.1	Ca_Kabuli_Chr08	7953116	CC	TT	TT	INTERGENIC			
SNP_59357_A_7953157	NC_021167.1	Ca_Kabuli_Chr08	7953157	GG	AA	AA	INTERGENIC			
SNP_59358_A_7953268	NC_021167.1	Ca_Kabuli_Chr08	7953268	CC	TT	TT	INTERGENIC			
SNP_59359_A_7953276	NC_021167.1	Ca_Kabuli_Chr08	7953276	CC	TT	TT	INTERGENIC			
SNP_59360_A_7953297	NC_021167.1	Ca_Kabuli_Chr08	7953297	AA	GG	GG	INTERGENIC			
SNP_59361_A_7953338	NC_021167.1	Ca_Kabuli_Chr08	7953338	GG	AA	AA	INTERGENIC			
SNP_59362_A_7953416	NC_021167.1	Ca_Kabuli_Chr08	7953416	AA	GG	GG	INTERGENIC			
SNP_59363_A_7953455	NC_021167.1	Ca_Kabuli_Chr08	7953455	CC	TT	TT	INTERGENIC			
SNP_59364_A_7953508	NC_021167.1	Ca_Kabuli_Chr08	7953508	CC	TT	TT	INTERGENIC			
SNP_59365_A_7953581	NC_021167.1	Ca_Kabuli_Chr08	7953581	AA	GG	GG	INTERGENIC			
SNP_59366_A_7953649	NC_021167.1	Ca_Kabuli_Chr08	7953649	GG	CC	CC	INTERGENIC			
SNP_59367_A_7953677	NC_021167.1	Ca_Kabuli_Chr08	7953677	AA	GG	GG	INTERGENIC			
SNP_59368_A_7953711	NC_021167.1	Ca_Kabuli_Chr08	7953711	GG	AA	AA	INTERGENIC			
SNP_59369_A_7953724	NC_021167.1	Ca_Kabuli_Chr08	7953724	GG	TT	TT	INTERGENIC			
SNP_59370_A_7953778	NC_021167.1	Ca_Kabuli_Chr08	7953778	CC	TT	TT	INTERGENIC			
SNP_59372_A_7953856	NC_021167.1	Ca_Kabuli_Chr08	7953856	CC	AA	AA	INTERGENIC			
SNP_59373_A_7953902	NC_021167.1	Ca_Kabuli_Chr08	7953902	GG	AA	AA	INTERGENIC			
SNP_59374_A_7953932	NC_021167.1	Ca_Kabuli_Chr08	7953932	TT	CC	CC	INTERGENIC			
SNP_59375_A_7953989	NC_021167.1	Ca_Kabuli_Chr08	7953989	TT	CC	CC	INTERGENIC			
SNP_59376_A_7953998	NC_021167.1	Ca_Kabuli_Chr08	7953998	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59377_A_7954075	NC_021167.1	Ca_Kabuli_Chr08	7954075	GG	TT	TT	INTERGENIC			
SNP_59378_A_7954166	NC_021167.1	Ca_Kabuli_Chr08	7954166	CC	TT	TT	INTERGENIC			
SNP_59379_A_7954194	NC_021167.1	Ca_Kabuli_Chr08	7954194	AA	CC	CC	INTERGENIC			
SNP_59380_A_7954379	NC_021167.1	Ca_Kabuli_Chr08	7954379	AA	GG	GG	INTERGENIC			
SNP_59382_A_7954405	NC_021167.1	Ca_Kabuli_Chr08	7954405	AA	GG	GG	INTERGENIC			
SNP_59383_A_7954416	NC_021167.1	Ca_Kabuli_Chr08	7954416	GG	AA	AA	INTERGENIC			
SNP_59384_A_7954476	NC_021167.1	Ca_Kabuli_Chr08	7954476	AA	TT	TT	INTERGENIC			
SNP_59385_A_7954490	NC_021167.1	Ca_Kabuli_Chr08	7954490	CC	TT	TT	INTERGENIC			
SNP_59387_A_7954529	NC_021167.1	Ca_Kabuli_Chr08	7954529	TT	CC	CC	INTERGENIC			
SNP_59388_A_7954533	NC_021167.1	Ca_Kabuli_Chr08	7954533	TT	CC	CC	INTERGENIC			
SNP_59389_A_7954572	NC_021167.1	Ca_Kabuli_Chr08	7954572	AA	CC	CC	INTERGENIC			
SNP_59390_A_7954617	NC_021167.1	Ca_Kabuli_Chr08	7954617	AA	CC	CC	INTERGENIC			
SNP_59391_A_7954648	NC_021167.1	Ca_Kabuli_Chr08	7954648	AA	GG	GG	INTERGENIC			
SNP_59392_A_7954706	NC_021167.1	Ca_Kabuli_Chr08	7954706	GG	TT	TT	INTERGENIC			
SNP_59393_A_7954718	NC_021167.1	Ca_Kabuli_Chr08	7954718	TT	AA	AA	INTERGENIC			
SNP_59394_A_7954745	NC_021167.1	Ca_Kabuli_Chr08	7954745	GG	CC	CC	INTERGENIC			
SNP_59395_A_7954803	NC_021167.1	Ca_Kabuli_Chr08	7954803	CC	TT	TT	INTERGENIC			
SNP_59396_A_7954805	NC_021167.1	Ca_Kabuli_Chr08	7954805	AA	TT	TT	INTERGENIC			
SNP_59397_A_7954824	NC_021167.1	Ca_Kabuli_Chr08	7954824	AA	GG	GG	INTERGENIC			
SNP_59398_A_7954855	NC_021167.1	Ca_Kabuli_Chr08	7954855	TT	CC	CC	INTERGENIC			
SNP_59399_A_7954873	NC_021167.1	Ca_Kabuli_Chr08	7954873	CC	GG	GG	INTERGENIC			
SNP_59400_A_7954880	NC_021167.1	Ca_Kabuli_Chr08	7954880	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59401_A_7954928	NC_021167.1	Ca_Kabuli_Chr08	7954928	AA	TT	TT	INTERGENIC			
SNP_59402_A_7954938	NC_021167.1	Ca_Kabuli_Chr08	7954938	CC	AA	AA	INTERGENIC			
SNP_59403_A_7954998	NC_021167.1	Ca_Kabuli_Chr08	7954998	TT	CC	CC	INTERGENIC			
SNP_59404_A_7955037	NC_021167.1	Ca_Kabuli_Chr08	7955037	GG	AA	AA	INTERGENIC			
SNP_59405_A_7955041	NC_021167.1	Ca_Kabuli_Chr08	7955041	GG	TT	TT	INTERGENIC			
SNP_59406_A_7955075	NC_021167.1	Ca_Kabuli_Chr08	7955075	AA	GG	GG	INTERGENIC			
SNP_59407_A_7955340	NC_021167.1	Ca_Kabuli_Chr08	7955340	AA	TT	TT	INTERGENIC			
SNP_59408_A_7955370	NC_021167.1	Ca_Kabuli_Chr08	7955370	CC	AA	AA	INTERGENIC			
SNP_59409_A_7955457	NC_021167.1	Ca_Kabuli_Chr08	7955457	TT	AA	AA	INTERGENIC			
SNP_59410_A_7955493	NC_021167.1	Ca_Kabuli_Chr08	7955493	GG	AA	AA	INTERGENIC			
SNP_59412_A_7955550	NC_021167.1	Ca_Kabuli_Chr08	7955550	AA	CC	CC	INTERGENIC			
SNP_59413_A_7955556	NC_021167.1	Ca_Kabuli_Chr08	7955556	TT	CC	CC	INTERGENIC			
SNP_59415_A_7955596	NC_021167.1	Ca_Kabuli_Chr08	7955596	AA	GG	GG	INTERGENIC			
SNP_59416_A_7955732	NC_021167.1	Ca_Kabuli_Chr08	7955732	CC	TT	TT	INTERGENIC			
SNP_59417_A_7955741	NC_021167.1	Ca_Kabuli_Chr08	7955741	AA	CC	CC	INTERGENIC			
SNP_59418_A_7955759	NC_021167.1	Ca_Kabuli_Chr08	7955759	CC	TT	TT	INTERGENIC			
SNP_59419_A_7955882	NC_021167.1	Ca_Kabuli_Chr08	7955882	AA	GG	GG	INTERGENIC			
SNP_59420_A_7956011	NC_021167.1	Ca_Kabuli_Chr08	7956011	AA	GG	GG	INTERGENIC			
SNP_59422_A_7956217	NC_021167.1	Ca_Kabuli_Chr08	7956217	TT	CC	CC	INTERGENIC			
SNP_59423_A_7956289	NC_021167.1	Ca_Kabuli_Chr08	7956289	TT	CC	CC	INTERGENIC			
SNP_59424_A_7956486	NC_021167.1	Ca_Kabuli_Chr08	7956486	CC	TT	TT	INTERGENIC			
SNP_59425_A_7994202	NC_021167.1	Ca_Kabuli_Chr08	7994202	AA	GG	GG	URR		101502718	4-coumarate--CoA ligase-like 6

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59428_A_8053847	NC_021167.1	Ca_Kabuli_Chr08	8053847	AA	GG	GG	INTERGENIC			
SNP_59429_A_8074300	NC_021167.1	Ca_Kabuli_Chr08	8074300	AA	GG	GG	INTERGENIC			
SNP_59430_A_8074306	NC_021167.1	Ca_Kabuli_Chr08	8074306	GG	CC	CC	INTERGENIC			
SNP_59431_A_8074570	NC_021167.1	Ca_Kabuli_Chr08	8074570	CC	TT	TT	INTERGENIC			
SNP_59432_A_8074695	NC_021167.1	Ca_Kabuli_Chr08	8074695	GG	TT	TT	INTERGENIC			
SNP_59433_A_8074702	NC_021167.1	Ca_Kabuli_Chr08	8074702	AA	TT	TT	INTERGENIC			
SNP_59434_A_8074704	NC_021167.1	Ca_Kabuli_Chr08	8074704	CC	AA	AA	INTERGENIC			
SNP_59435_A_8074711	NC_021167.1	Ca_Kabuli_Chr08	8074711	TT	CC	CC	INTERGENIC			
SNP_59436_A_8074717	NC_021167.1	Ca_Kabuli_Chr08	8074717	GG	TT	TT	INTERGENIC			
SNP_59437_A_8074724	NC_021167.1	Ca_Kabuli_Chr08	8074724	TT	CC	CC	INTERGENIC			
SNP_59438_A_8074731	NC_021167.1	Ca_Kabuli_Chr08	8074731	AA	GG	GG	INTERGENIC			
SNP_59439_A_8074745	NC_021167.1	Ca_Kabuli_Chr08	8074745	GG	AA	AA	INTERGENIC			
SNP_59440_A_8074783	NC_021167.1	Ca_Kabuli_Chr08	8074783	GG	AA	AA	INTERGENIC			
SNP_59441_A_8074788	NC_021167.1	Ca_Kabuli_Chr08	8074788	AA	GG	GG	INTERGENIC			
SNP_59442_A_8074791	NC_021167.1	Ca_Kabuli_Chr08	8074791	CC	TT	TT	INTERGENIC			
SNP_59443_A_8074836	NC_021167.1	Ca_Kabuli_Chr08	8074836	CC	AA	AA	INTERGENIC			
SNP_59444_A_8074866	NC_021167.1	Ca_Kabuli_Chr08	8074866	TT	AA	AA	INTERGENIC			
SNP_59445_A_8074892	NC_021167.1	Ca_Kabuli_Chr08	8074892	TT	AA	AA	INTERGENIC			
SNP_59446_A_8074894	NC_021167.1	Ca_Kabuli_Chr08	8074894	TT	AA	AA	INTERGENIC			
SNP_59447_A_8075318	NC_021167.1	Ca_Kabuli_Chr08	8075318	TT	CC	CC	INTERGENIC			
SNP_59448_A_8075590	NC_021167.1	Ca_Kabuli_Chr08	8075590	GG	TT	TT	INTERGENIC			
SNP_59449_A_8075593	NC_021167.1	Ca_Kabuli_Chr08	8075593	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59451_A_8075975	NC_021167.1	Ca_Kabuli_Chr08	8075975	GG	AA	AA	INTERGENIC			
SNP_59452_A_8076291	NC_021167.1	Ca_Kabuli_Chr08	8076291	CC	TT	TT	INTERGENIC			
SNP_59453_A_8076323	NC_021167.1	Ca_Kabuli_Chr08	8076323	AA	GG	GG	INTERGENIC			
SNP_59454_A_8084487	NC_021167.1	Ca_Kabuli_Chr08	8084487	AA	TT	TT	INTERGENIC			
SNP_59455_A_8084586	NC_021167.1	Ca_Kabuli_Chr08	8084586	TT	CC	CC	INTERGENIC			
SNP_59456_A_8084592	NC_021167.1	Ca_Kabuli_Chr08	8084592	GG	AA	AA	INTERGENIC			
SNP_59457_A_8084632	NC_021167.1	Ca_Kabuli_Chr08	8084632	CC	AA	AA	INTERGENIC			
SNP_59459_A_8084735	NC_021167.1	Ca_Kabuli_Chr08	8084735	AA	GG	GG	INTERGENIC			
SNP_59460_A_8084747	NC_021167.1	Ca_Kabuli_Chr08	8084747	AA	GG	GG	INTERGENIC			
SNP_59461_A_8084755	NC_021167.1	Ca_Kabuli_Chr08	8084755	GG	TT	TT	INTERGENIC			
SNP_59462_A_8084758	NC_021167.1	Ca_Kabuli_Chr08	8084758	CC	AA	AA	INTERGENIC			
SNP_59463_A_8084802	NC_021167.1	Ca_Kabuli_Chr08	8084802	AA	TT	TT	INTERGENIC			
SNP_59464_A_8129009	NC_021167.1	Ca_Kabuli_Chr08	8129009	TT	CC	CC	INTERGENIC			
SNP_59465_A_8162354	NC_021167.1	Ca_Kabuli_Chr08	8162354	TT	CC	CC	INTERGENIC			
SNP_59467_A_8244683	NC_021167.1	Ca_Kabuli_Chr08	8244683	GG	AA	AA	INTERGENIC			
SNP_59468_A_8247690	NC_021167.1	Ca_Kabuli_Chr08	8247690	GG	AA	AA	INTERGENIC			
SNP_59469_A_8247705	NC_021167.1	Ca_Kabuli_Chr08	8247705	GG	TT	TT	INTERGENIC			
SNP_59470_A_8248003	NC_021167.1	Ca_Kabuli_Chr08	8248003	CC	AA	AA	INTERGENIC			
SNP_59471_A_8254575	NC_021167.1	Ca_Kabuli_Chr08	8254575	AA	GG	GG	INTERGENIC			
SNP_59472_A_8254596	NC_021167.1	Ca_Kabuli_Chr08	8254596	AA	GG	GG	INTERGENIC			
SNP_59473_A_8254601	NC_021167.1	Ca_Kabuli_Chr08	8254601	GG	AA	AA	INTERGENIC			
SNP_59474_A_8254706	NC_021167.1	Ca_Kabuli_Chr08	8254706	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59475_A_8254712	NC_021167.1	Ca_Kabuli_Chr08	8254712	AA	GG	GG	INTERGENIC		
SNP_59476_A_8254751	NC_021167.1	Ca_Kabuli_Chr08	8254751	TT	GG	GG	INTERGENIC		
SNP_59477_A_8254891	NC_021167.1	Ca_Kabuli_Chr08	8254891	AA	GG	GG	INTERGENIC		
SNP_59478_A_8254908	NC_021167.1	Ca_Kabuli_Chr08	8254908	AA	CC	CC	INTERGENIC		
SNP_59479_A_8254954	NC_021167.1	Ca_Kabuli_Chr08	8254954	CC	GG	GG	INTERGENIC		
SNP_59480_A_8257926	NC_021167.1	Ca_Kabuli_Chr08	8257926	CC	TT	TT	INTERGENIC		
SNP_59481_A_8272709	NC_021167.1	Ca_Kabuli_Chr08	8272709	GG	CC	CC	URR	101510441	60S ribosomal protein L17-1-like
SNP_59482_A_8272755	NC_021167.1	Ca_Kabuli_Chr08	8272755	CC	TT	TT	URR	101510441	60S ribosomal protein L17-1-like
SNP_59483_A_8272866	NC_021167.1	Ca_Kabuli_Chr08	8272866	AA	GG	GG	URR	101510441	60S ribosomal protein L17-1-like
SNP_59485_A_8272929	NC_021167.1	Ca_Kabuli_Chr08	8272929	TT	CC	CC	URR	101510441	60S ribosomal protein L17-1-like
SNP_59486_A_8273022	NC_021167.1	Ca_Kabuli_Chr08	8273022	CC	AA	AA	INTERGENIC		
SNP_59487_A_8273057	NC_021167.1	Ca_Kabuli_Chr08	8273057	TT	AA	AA	INTERGENIC		
SNP_59488_A_8273075	NC_021167.1	Ca_Kabuli_Chr08	8273075	TT	CC	CC	INTERGENIC		
SNP_59490_A_8276303	NC_021167.1	Ca_Kabuli_Chr08	8276303	CC	TT	TT	INTERGENIC		
SNP_59491_A_8277386	NC_021167.1	Ca_Kabuli_Chr08	8277386	TT	CC	CC	INTERGENIC		
SNP_59492_A_8289022	NC_021167.1	Ca_Kabuli_Chr08	8289022	TT	AA	AA	DRR	101511512	60S ribosomal protein L17-2-like
SNP_59493_A_8289045	NC_021167.1	Ca_Kabuli_Chr08	8289045	CC	GG	GG	DRR	101511512	60S ribosomal protein L17-2-like
SNP_59494_A_8289060	NC_021167.1	Ca_Kabuli_Chr08	8289060	TT	CC	CC	DRR	101511512	60S ribosomal protein L17-2-like
SNP_59495_A_8289174	NC_021167.1	Ca_Kabuli_Chr08	8289174	GG	CC	CC	DRR	101511512	60S ribosomal protein L17-2-like
SNP_59497_A_8395568	NC_021167.1	Ca_Kabuli_Chr08	8395568	AA	TT	TT	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59498_A_8395604	NC_021167.1	Ca_Kabuli_Chr08	8395604	TT	CC	CC	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59499_A_8395657	NC_021167.1	Ca_Kabuli_Chr08	8395657	TT	GG	GG	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59500_A_8395668	NC_021167.1	Ca_Kabuli_Chr08	8395668	AA	CC	CC	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59501_A_8395669	NC_021167.1	Ca_Kabuli_Chr08	8395669	TT	CC	CC	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59502_A_8395682	NC_021167.1	Ca_Kabuli_Chr08	8395682	GG	AA	AA	DRR	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59503_A_8396241	NC_021167.1	Ca_Kabuli_Chr08	8396241	TT	CC	CC	INTERGENIC		
SNP_59504_A_8398225	NC_021167.1	Ca_Kabuli_Chr08	8398225	TT	AA	AA	INTRON	101488937	putative peroxisomal acyl-coenzyme A oxidase 1.2
SNP_59505_A_8401306	NC_021167.1	Ca_Kabuli_Chr08	8401306	TT	AA	AA	INTERGENIC		
SNP_59506_A_8401394	NC_021167.1	Ca_Kabuli_Chr08	8401394	CC	TT	TT	INTERGENIC		
SNP_59507_A_8401431	NC_021167.1	Ca_Kabuli_Chr08	8401431	GG	AA	AA	INTERGENIC		
SNP_59509_A_8475652	NC_021167.1	Ca_Kabuli_Chr08	8475652	GG	AA	AA	INTERGENIC		
SNP_59510_A_8475653	NC_021167.1	Ca_Kabuli_Chr08	8475653	CC	TT	TT	INTERGENIC		
SNP_59511_A_8536365	NC_021167.1	Ca_Kabuli_Chr08	8536365	AA	GG	GG	URR	101491512	mitogen-activated protein kinase kinase 10
SNP_59512_A_8577438	NC_021167.1	Ca_Kabuli_Chr08	8577438	GG	AA	AA	INTERGENIC		
SNP_59513_A_8577701	NC_021167.1	Ca_Kabuli_Chr08	8577701	CC	AA	AA	INTERGENIC		
SNP_59514_A_8577705	NC_021167.1	Ca_Kabuli_Chr08	8577705	GG	AA	AA	INTERGENIC		
SNP_59515_A_8577730	NC_021167.1	Ca_Kabuli_Chr08	8577730	GG	AA	AA	INTERGENIC		
SNP_59516_A_8586246	NC_021167.1	Ca_Kabuli_Chr08	8586246	AA	GG	GG	INTRON	101494238	ABC transporter B family member 2-like
SNP_59517_A_8606402	NC_021167.1	Ca_Kabuli_Chr08	8606402	TT	CC	CC	INTERGENIC		
SNP_59518_A_8609138	NC_021167.1	Ca_Kabuli_Chr08	8609138	GG	AA	AA	INTERGENIC		
SNP_59522_A_8624641	NC_021167.1	Ca_Kabuli_Chr08	8624641	AA	GG	GG	INTERGENIC		
SNP_59523_A_8624646	NC_021167.1	Ca_Kabuli_Chr08	8624646	TT	AA	AA	INTERGENIC		
SNP_59524_A_8624779	NC_021167.1	Ca_Kabuli_Chr08	8624779	GG	TT	TT	INTERGENIC		
SNP_59525_A_8684189	NC_021167.1	Ca_Kabuli_Chr08	8684189	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59526_A_8736794	NC_021167.1	Ca_Kabuli_Chr08	8736794	TT	GG	GG	INTERGENIC		
SNP_59528_A_8773979	NC_021167.1	Ca_Kabuli_Chr08	8773979	GG	TT	TT	URR	101490240	serine/threonine-protein phosphatase 7 long form homolog
SNP_59529_A_8773994	NC_021167.1	Ca_Kabuli_Chr08	8773994	AA	GG	GG	URR	101490240	serine/threonine-protein phosphatase 7 long form homolog
SNP_59530_A_8774033	NC_021167.1	Ca_Kabuli_Chr08	8774033	AA	TT	TT	URR	101490240	serine/threonine-protein phosphatase 7 long form homolog
SNP_59531_A_8774227	NC_021167.1	Ca_Kabuli_Chr08	8774227	TT	AA	AA	URR	101490240	serine/threonine-protein phosphatase 7 long form homolog
SNP_59532_A_8774313	NC_021167.1	Ca_Kabuli_Chr08	8774313	CC	TT	TT	URR	101490240	serine/threonine-protein phosphatase 7 long form homolog
SNP_59534_A_8787756	NC_021167.1	Ca_Kabuli_Chr08	8787756	GG	AA	AA	URR	101498349	uncharacterized LOC101498349
SNP_59535_A_8823786	NC_021167.1	Ca_Kabuli_Chr08	8823786	GG	AA	AA	URR	101499017	ubiquitin carboxyl-terminal hydrolase 20
SNP_59536_A_8832565	NC_021167.1	Ca_Kabuli_Chr08	8832565	TT	CC	CC	INTERGENIC		
SNP_59537_A_8833494	NC_021167.1	Ca_Kabuli_Chr08	8833494	CC	TT	TT	INTERGENIC		
SNP_59538_A_8835822	NC_021167.1	Ca_Kabuli_Chr08	8835822	TT	CC	CC	INTERGENIC		
SNP_59539_A_8839008	NC_021167.1	Ca_Kabuli_Chr08	8839008	GG	AA	AA	INTERGENIC		
SNP_59540_A_8839400	NC_021167.1	Ca_Kabuli_Chr08	8839400	AA	GG	GG	DRR	101499336	transcription factor MYC2-like
SNP_59541_A_8845247	NC_021167.1	Ca_Kabuli_Chr08	8845247	TT	CC	CC	INTERGENIC		
SNP_59546_A_8850129	NC_021167.1	Ca_Kabuli_Chr08	8850129	AA	GG	GG	INTERGENIC		
SNP_59547_A_8852988	NC_021167.1	Ca_Kabuli_Chr08	8852988	AA	CC	CC	DRR	101499650	uncharacterized LOC101499650
SNP_59548_A_8853974	NC_021167.1	Ca_Kabuli_Chr08	8853974	CC	AA	AA	INTERGENIC		
SNP_59549_A_8856017	NC_021167.1	Ca_Kabuli_Chr08	8856017	TT	CC	CC	URR	101499650	uncharacterized LOC101499650
SNP_59550_A_8856372	NC_021167.1	Ca_Kabuli_Chr08	8856372	CC	TT	TT	URR	101499650	uncharacterized LOC101499650
SNP_59551_A_8856393	NC_021167.1	Ca_Kabuli_Chr08	8856393	TT	CC	CC	URR	101499650	uncharacterized LOC101499650
SNP_59554_A_8858963	NC_021167.1	Ca_Kabuli_Chr08	8858963	TT	CC	CC	INTERGENIC		
SNP_59556_A_8862129	NC_021167.1	Ca_Kabuli_Chr08	8862129	CC	TT	TT	URR	101499953	uncharacterized LOC101499953

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59558_A_8862570	NC_021167.1	Ca_Kabuli_Chr08	8862570	AA	GG	GG	DRR	101500298	protein HAIKU1-like
SNP_59559_A_8862576	NC_021167.1	Ca_Kabuli_Chr08	8862576	TT	CC	CC	DRR	101500298	protein HAIKU1-like
SNP_59560_A_8862578	NC_021167.1	Ca_Kabuli_Chr08	8862578	AA	GG	GG	DRR	101500298	protein HAIKU1-like
SNP_59561_A_8862585	NC_021167.1	Ca_Kabuli_Chr08	8862585	GG	AA	AA	DRR	101500298	protein HAIKU1-like
SNP_59562_A_8862589	NC_021167.1	Ca_Kabuli_Chr08	8862589	CC	TT	TT	DRR	101500298	protein HAIKU1-like
SNP_59563_A_8862917	NC_021167.1	Ca_Kabuli_Chr08	8862917	AA	GG	GG	DRR	101500298	protein HAIKU1-like
SNP_59565_A_8869113	NC_021167.1	Ca_Kabuli_Chr08	8869113	TT	AA	AA	INTERGENIC		
SNP_59567_A_8869659	NC_021167.1	Ca_Kabuli_Chr08	8869659	AA	TT	TT	INTERGENIC		
SNP_59568_A_8871037	NC_021167.1	Ca_Kabuli_Chr08	8871037	GG	AA	AA	INTERGENIC		
SNP_59570_A_8872763	NC_021167.1	Ca_Kabuli_Chr08	8872763	CC	GG	GG	INTERGENIC		
SNP_59571_A_8872766	NC_021167.1	Ca_Kabuli_Chr08	8872766	GG	AA	AA	INTERGENIC		
SNP_59572_A_8872784	NC_021167.1	Ca_Kabuli_Chr08	8872784	AA	GG	GG	INTERGENIC		
SNP_59573_A_8872785	NC_021167.1	Ca_Kabuli_Chr08	8872785	GG	CC	CC	INTERGENIC		
SNP_59574_A_8873106	NC_021167.1	Ca_Kabuli_Chr08	8873106	GG	AA	AA	INTERGENIC		
SNP_59576_A_8874476	NC_021167.1	Ca_Kabuli_Chr08	8874476	AA	TT	TT	INTERGENIC		
SNP_59577_A_8875714	NC_021167.1	Ca_Kabuli_Chr08	8875714	AA	GG	GG	INTERGENIC		
SNP_59578_A_8876794	NC_021167.1	Ca_Kabuli_Chr08	8876794	TT	AA	AA	DRR	101500611	abscisic acid receptor PYL1
SNP_59579_A_8877173	NC_021167.1	Ca_Kabuli_Chr08	8877173	AA	TT	TT	DRR	101500611	abscisic acid receptor PYL1
SNP_59580_A_8877175	NC_021167.1	Ca_Kabuli_Chr08	8877175	CC	TT	TT	DRR	101500611	abscisic acid receptor PYL1
SNP_59581_A_8878940	NC_021167.1	Ca_Kabuli_Chr08	8878940	CC	TT	TT	URR	101500611	abscisic acid receptor PYL1
SNP_59582_A_8878963	NC_021167.1	Ca_Kabuli_Chr08	8878963	TT	CC	CC	URR	101500611	abscisic acid receptor PYL1
SNP_59583_A_8878970	NC_021167.1	Ca_Kabuli_Chr08	8878970	AA	GG	GG	URR	101500611	abscisic acid receptor PYL1

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59584_A_8879979	NC_021167.1	Ca_Kabuli_Chr08	8879979	TT	CC	CC	URR	101500611	abscisic acid receptor PYL1
SNP_59585_A_8881371	NC_021167.1	Ca_Kabuli_Chr08	8881371	GG	AA	AA	INTERGENIC		
SNP_59586_A_8881388	NC_021167.1	Ca_Kabuli_Chr08	8881388	AA	GG	GG	INTERGENIC		
SNP_59589_A_8882263	NC_021167.1	Ca_Kabuli_Chr08	8882263	TT	CC	CC	INTERGENIC		
SNP_59590_A_8883489	NC_021167.1	Ca_Kabuli_Chr08	8883489	AA	GG	GG	INTERGENIC		
SNP_59592_A_8886213	NC_021167.1	Ca_Kabuli_Chr08	8886213	CC	TT	TT	DRR	101501251	mitochondrial carnitine/acylcarnitine carrier-like protein
SNP_59594_A_8886800	NC_021167.1	Ca_Kabuli_Chr08	8886800	CC	TT	TT	URR	101500919	uncharacterized LOC101500919
SNP_59595_A_8887852	NC_021167.1	Ca_Kabuli_Chr08	8887852	CC	AA	AA	URR	101500919	uncharacterized LOC101500919
SNP_59596_A_8887870	NC_021167.1	Ca_Kabuli_Chr08	8887870	AA	GG	GG	URR	101500919	uncharacterized LOC101500919
SNP_59597_A_8887877	NC_021167.1	Ca_Kabuli_Chr08	8887877	TT	GG	GG	URR	101500919	uncharacterized LOC101500919
SNP_59598_A_8888152	NC_021167.1	Ca_Kabuli_Chr08	8888152	CC	TT	TT	INTRON	101501251	mitochondrial carnitine/acylcarnitine carrier-like protein
SNP_59599_A_8893341	NC_021167.1	Ca_Kabuli_Chr08	8893341	TT	CC	CC	INTERGENIC		
SNP_59600_A_8893607	NC_021167.1	Ca_Kabuli_Chr08	8893607	GG	AA	AA	INTERGENIC		
SNP_59601_A_8894374	NC_021167.1	Ca_Kabuli_Chr08	8894374	GG	AA	AA	DRR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59602_A_8894393	NC_021167.1	Ca_Kabuli_Chr08	8894393	AA	GG	GG	DRR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59603_A_8900082	NC_021167.1	Ca_Kabuli_Chr08	8900082	AA	TT	TT	NON_SYNONYMOUS_CODING	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59605_A_8906896	NC_021167.1	Ca_Kabuli_Chr08	8906896	GG	AA	AA	URR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59606_A_8907140	NC_021167.1	Ca_Kabuli_Chr08	8907140	TT	AA	AA	URR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59607_A_8907141	NC_021167.1	Ca_Kabuli_Chr08	8907141	CC	TT	TT	URR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59609_A_8907704	NC_021167.1	Ca_Kabuli_Chr08	8907704	AA	GG	GG	URR	101501560	probable sphingolipid transporter spinstar homolog 2
SNP_59610_A_8910046	NC_021167.1	Ca_Kabuli_Chr08	8910046	TT	CC	CC	INTERGENIC		
SNP_59612_A_8910889	NC_021167.1	Ca_Kabuli_Chr08	8910889	CC	TT	TT	INTRON	101502095	probable starch synthase 4, chloroplastic/amyloplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59613_A_8910900	NC_021167.1	Ca_Kabuli_Chr08	8910900	AA	GG	GG	INTRON	101502095	probable starch synthase 4, chloroplastic/amyloplastic
SNP_59614_A_8911129	NC_021167.1	Ca_Kabuli_Chr08	8911129	GG	AA	AA	INTRON	101502095	probable starch synthase 4, chloroplastic/amyloplastic
SNP_59615_A_8914350	NC_021167.1	Ca_Kabuli_Chr08	8914350	TT	AA	AA	INTRON	101502095	probable starch synthase 4, chloroplastic/amyloplastic
SNP_59616_A_8915337	NC_021167.1	Ca_Kabuli_Chr08	8915337	TT	CC	CC	INTRON	101502095	probable starch synthase 4, chloroplastic/amyloplastic
SNP_59617_A_8918229	NC_021167.1	Ca_Kabuli_Chr08	8918229	GG	AA	AA	INTERGENIC		
SNP_59618_A_8922941	NC_021167.1	Ca_Kabuli_Chr08	8922941	TT	AA	AA	DRR	101503359	protein SPT2 homolog
SNP_59619_A_8923225	NC_021167.1	Ca_Kabuli_Chr08	8923225	GG	AA	AA	INTERGENIC		
SNP_59620_A_8923512	NC_021167.1	Ca_Kabuli_Chr08	8923512	TT	AA	AA	INTRON	101503359	protein SPT2 homolog
SNP_59621_A_8924340	NC_021167.1	Ca_Kabuli_Chr08	8924340	TT	CC	CC	INTRON	101503359	protein SPT2 homolog
SNP_59622_A_8924608	NC_021167.1	Ca_Kabuli_Chr08	8924608	TT	AA	AA	INTRON	101503359	protein SPT2 homolog
SNP_59624_A_8924848	NC_021167.1	Ca_Kabuli_Chr08	8924848	TT	CC	CC	INTRON	101503359	protein SPT2 homolog
SNP_59625_A_8925087	NC_021167.1	Ca_Kabuli_Chr08	8925087	CC	TT	TT	SYNONYMOUS_CODING	101503359	protein SPT2 homolog
SNP_59626_A_8934922	NC_021167.1	Ca_Kabuli_Chr08	8934922	AA	TT	TT	INTRON	101503695	phosphoenolpyruvate carboxykinase [ATP]
SNP_59628_A_8938796	NC_021167.1	Ca_Kabuli_Chr08	8938796	AA	GG	GG	INTERGENIC		
SNP_59629_A_8939190	NC_021167.1	Ca_Kabuli_Chr08	8939190	AA	GG	GG	INTERGENIC		
SNP_59630_A_8939219	NC_021167.1	Ca_Kabuli_Chr08	8939219	TT	CC	CC	INTERGENIC		
SNP_59631_A_8939491	NC_021167.1	Ca_Kabuli_Chr08	8939491	TT	CC	CC	URR	101503695	phosphoenolpyruvate carboxykinase [ATP]
SNP_59632_A_8939928	NC_021167.1	Ca_Kabuli_Chr08	8939928	CC	TT	TT	URR	101503695	phosphoenolpyruvate carboxykinase [ATP]
SNP_59633_A_8940113	NC_021167.1	Ca_Kabuli_Chr08	8940113	TT	CC	CC	URR	101503695	phosphoenolpyruvate carboxykinase [ATP]
SNP_59634_A_8940165	NC_021167.1	Ca_Kabuli_Chr08	8940165	TT	AA	AA	DRR	101491513	putative FBD-associated F-box protein At5g56700
SNP_59635_A_8940186	NC_021167.1	Ca_Kabuli_Chr08	8940186	AA	GG	GG	DRR	101491513	putative FBD-associated F-box protein At5g56700
SNP_59636_A_8940280	NC_021167.1	Ca_Kabuli_Chr08	8940280	GG	AA	AA	DRR	101491513	putative FBD-associated F-box protein At5g56700

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59638_A_8954156	NC_021167.1	Ca_Kabuli_Chr08	8954156	GG	AA	AA	INTERGENIC			
SNP_59640_A_8957835	NC_021167.1	Ca_Kabuli_Chr08	8957835	TT	CC	CC	INTERGENIC			
SNP_59641_A_8958732	NC_021167.1	Ca_Kabuli_Chr08	8958732	GG	CC	CC	INTERGENIC			
SNP_59642_A_8961404	NC_021167.1	Ca_Kabuli_Chr08	8961404	AA	GG	GG	INTERGENIC			
SNP_59643_A_8962005	NC_021167.1	Ca_Kabuli_Chr08	8962005	TT	CC	CC	INTERGENIC			
SNP_59644_A_8962047	NC_021167.1	Ca_Kabuli_Chr08	8962047	TT	AA	AA	INTERGENIC			
SNP_59645_A_8964212	NC_021167.1	Ca_Kabuli_Chr08	8964212	AA	GG	GG	INTERGENIC			
SNP_59648_A_8964241	NC_021167.1	Ca_Kabuli_Chr08	8964241	GG	TT	TT	INTERGENIC			
SNP_59649_A_8969028	NC_021167.1	Ca_Kabuli_Chr08	8969028	AA	GG	GG	INTERGENIC			
SNP_59650_A_8969052	NC_021167.1	Ca_Kabuli_Chr08	8969052	TT	GG	GG	INTERGENIC			
SNP_59651_A_8969104	NC_021167.1	Ca_Kabuli_Chr08	8969104	AA	GG	GG	INTERGENIC			
SNP_59652_A_8969109	NC_021167.1	Ca_Kabuli_Chr08	8969109	CC	TT	TT	INTERGENIC			
SNP_59653_A_8969156	NC_021167.1	Ca_Kabuli_Chr08	8969156	GG	CC	CC	INTERGENIC			
SNP_59655_A_8969584	NC_021167.1	Ca_Kabuli_Chr08	8969584	AA	GG	GG	INTERGENIC			
SNP_59656_A_8969595	NC_021167.1	Ca_Kabuli_Chr08	8969595	TT	CC	CC	INTERGENIC			
SNP_59657_A_8969649	NC_021167.1	Ca_Kabuli_Chr08	8969649	GG	AA	AA	INTERGENIC			
SNP_59658_A_8969973	NC_021167.1	Ca_Kabuli_Chr08	8969973	TT	CC	CC	INTERGENIC			
SNP_59659_A_8970202	NC_021167.1	Ca_Kabuli_Chr08	8970202	AA	GG	GG	INTERGENIC			
SNP_59660_A_8970218	NC_021167.1	Ca_Kabuli_Chr08	8970218	GG	TT	TT	INTERGENIC			
SNP_59661_A_8973145	NC_021167.1	Ca_Kabuli_Chr08	8973145	CC	TT	TT	INTERGENIC			
SNP_59662_A_8973146	NC_021167.1	Ca_Kabuli_Chr08	8973146	AA	GG	GG	INTERGENIC			
SNP_59663_A_8973147	NC_021167.1	Ca_Kabuli_Chr08	8973147	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_59664_A_8979468	NC_021167.1	Ca_Kabuli_Chr08	8979468	GG	AA	AA	INTERGENIC			
SNP_59665_A_8979488	NC_021167.1	Ca_Kabuli_Chr08	8979488	TT	CC	CC	INTERGENIC			
SNP_59666_A_8979498	NC_021167.1	Ca_Kabuli_Chr08	8979498	TT	CC	CC	INTERGENIC			
SNP_59667_A_8980808	NC_021167.1	Ca_Kabuli_Chr08	8980808	CC	TT	TT	INTERGENIC			
SNP_59668_A_8980824	NC_021167.1	Ca_Kabuli_Chr08	8980824	TT	CC	CC	INTERGENIC			
SNP_59669_A_8980844	NC_021167.1	Ca_Kabuli_Chr08	8980844	TT	CC	CC	INTERGENIC			
SNP_59670_A_8981785	NC_021167.1	Ca_Kabuli_Chr08	8981785	AA	GG	GG	INTERGENIC			
SNP_59671_A_8981792	NC_021167.1	Ca_Kabuli_Chr08	8981792	TT	CC	CC	INTERGENIC			
SNP_59672_A_8981793	NC_021167.1	Ca_Kabuli_Chr08	8981793	GG	CC	CC	INTERGENIC			
SNP_59673_A_8981808	NC_021167.1	Ca_Kabuli_Chr08	8981808	TT	AA	AA	INTERGENIC			
SNP_59674_A_8981809	NC_021167.1	Ca_Kabuli_Chr08	8981809	TT	AA	AA	INTERGENIC			
SNP_59675_A_8981810	NC_021167.1	Ca_Kabuli_Chr08	8981810	TT	CC	CC	INTERGENIC			
SNP_59676_A_8981818	NC_021167.1	Ca_Kabuli_Chr08	8981818	TT	CC	CC	INTERGENIC			
SNP_59677_A_8982065	NC_021167.1	Ca_Kabuli_Chr08	8982065	TT	CC	CC	INTERGENIC			
SNP_59678_A_8982088	NC_021167.1	Ca_Kabuli_Chr08	8982088	CC	TT	TT	INTERGENIC			
SNP_59679_A_8982094	NC_021167.1	Ca_Kabuli_Chr08	8982094	TT	CC	CC	INTERGENIC			
SNP_59680_A_8982098	NC_021167.1	Ca_Kabuli_Chr08	8982098	CC	TT	TT	INTERGENIC			
SNP_59681_A_8982099	NC_021167.1	Ca_Kabuli_Chr08	8982099	GG	TT	TT	INTERGENIC			
SNP_59683_A_8994357	NC_021167.1	Ca_Kabuli_Chr08	8994357	TT	CC	CC	INTERGENIC			
SNP_59684_A_8994413	NC_021167.1	Ca_Kabuli_Chr08	8994413	CC	TT	TT	INTERGENIC			
SNP_59685_A_8994446	NC_021167.1	Ca_Kabuli_Chr08	8994446	CC	TT	TT	INTERGENIC			
SNP_59687_A_8995594	NC_021167.1	Ca_Kabuli_Chr08	8995594	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59688_A_8995595	NC_021167.1	Ca_Kabuli_Chr08	8995595	TT	CC	CC	INTERGENIC		
SNP_59689_A_8995602	NC_021167.1	Ca_Kabuli_Chr08	8995602	CC	TT	TT	INTERGENIC		
SNP_59690_A_8998261	NC_021167.1	Ca_Kabuli_Chr08	8998261	GG	AA	AA	INTERGENIC		
SNP_59691_A_8998339	NC_021167.1	Ca_Kabuli_Chr08	8998339	CC	TT	TT	INTERGENIC		
SNP_59692_A_8998381	NC_021167.1	Ca_Kabuli_Chr08	8998381	GG	CC	CC	INTERGENIC		
SNP_59693_A_8998384	NC_021167.1	Ca_Kabuli_Chr08	8998384	AA	TT	TT	INTERGENIC		
SNP_59694_A_8998400	NC_021167.1	Ca_Kabuli_Chr08	8998400	TT	CC	CC	INTERGENIC		
SNP_59695_A_8998405	NC_021167.1	Ca_Kabuli_Chr08	8998405	GG	AA	AA	INTERGENIC		
SNP_59696_A_8998470	NC_021167.1	Ca_Kabuli_Chr08	8998470	AA	GG	GG	INTERGENIC		
SNP_59697_A_8998533	NC_021167.1	Ca_Kabuli_Chr08	8998533	CC	GG	GG	INTERGENIC		
SNP_59698_A_8998557	NC_021167.1	Ca_Kabuli_Chr08	8998557	AA	GG	GG	INTERGENIC		
SNP_59700_A_9000062	NC_021167.1	Ca_Kabuli_Chr08	9000062	GG	TT	TT	INTERGENIC		
SNP_59703_A_9005069	NC_021167.1	Ca_Kabuli_Chr08	9005069	TT	CC	CC	INTERGENIC		
SNP_59704_A_9019618	NC_021167.1	Ca_Kabuli_Chr08	9019618	AA	GG	GG	INTERGENIC		
SNP_59705_A_9019621	NC_021167.1	Ca_Kabuli_Chr08	9019621	TT	CC	CC	INTERGENIC		
SNP_59706_A_9019676	NC_021167.1	Ca_Kabuli_Chr08	9019676	TT	GG	GG	INTERGENIC		
SNP_59708_A_9076758	NC_021167.1	Ca_Kabuli_Chr08	9076758	AA	CC	CC	INTRON	101505299	transcription factor bHLH93-like
SNP_59709_A_9079489	NC_021167.1	Ca_Kabuli_Chr08	9079489	AA	CC	CC	URR	101505299	transcription factor bHLH93-like
SNP_59710_A_9079494	NC_021167.1	Ca_Kabuli_Chr08	9079494	AA	GG	GG	URR	101505299	transcription factor bHLH93-like
SNP_59711_A_9079496	NC_021167.1	Ca_Kabuli_Chr08	9079496	AA	CC	CC	URR	101505299	transcription factor bHLH93-like
SNP_59712_A_9080866	NC_021167.1	Ca_Kabuli_Chr08	9080866	AA	GG	GG	INTERGENIC		
SNP_59713_A_9081068	NC_021167.1	Ca_Kabuli_Chr08	9081068	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59715_A_9083676	NC_021167.1	Ca_Kabuli_Chr08	9083676	CC	TT	TT	INTERGENIC		
SNP_59716_A_9083693	NC_021167.1	Ca_Kabuli_Chr08	9083693	CC	GG	GG	INTERGENIC		
SNP_59718_A_9087352	NC_021167.1	Ca_Kabuli_Chr08	9087352	GG	TT	TT	INTERGENIC		
SNP_59720_A_9088087	NC_021167.1	Ca_Kabuli_Chr08	9088087	TT	GG	GG	INTERGENIC		
SNP_59721_A_9088151	NC_021167.1	Ca_Kabuli_Chr08	9088151	AA	GG	GG	INTERGENIC		
SNP_59725_A_9097825	NC_021167.1	Ca_Kabuli_Chr08	9097825	CC	TT	TT	INTERGENIC		
SNP_59726_A_9098953	NC_021167.1	Ca_Kabuli_Chr08	9098953	TT	CC	CC	SYNONYMOUS_CODING	101505631	probable beta-D-xylosidase 6
SNP_59727_A_9100293	NC_021167.1	Ca_Kabuli_Chr08	9100293	GG	AA	AA	NON_SYNONYMOUS_CODING	101505631	probable beta-D-xylosidase 6
SNP_59729_A_9113743	NC_021167.1	Ca_Kabuli_Chr08	9113743	CC	TT	TT	INTERGENIC		
SNP_59730_A_9113767	NC_021167.1	Ca_Kabuli_Chr08	9113767	GG	AA	AA	INTERGENIC		
SNP_59731_A_9116008	NC_021167.1	Ca_Kabuli_Chr08	9116008	CC	TT	TT	INTERGENIC		
SNP_59732_A_9120317	NC_021167.1	Ca_Kabuli_Chr08	9120317	CC	TT	TT	INTRON	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59733_A_9120322	NC_021167.1	Ca_Kabuli_Chr08	9120322	TT	GG	GG	INTRON	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59734_A_9120325	NC_021167.1	Ca_Kabuli_Chr08	9120325	AA	GG	GG	INTRON	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59735_A_9122653	NC_021167.1	Ca_Kabuli_Chr08	9122653	AA	TT	TT	INTRON	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59736_A_9122909	NC_021167.1	Ca_Kabuli_Chr08	9122909	AA	GG	GG	INTRON	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59737_A_9124483	NC_021167.1	Ca_Kabuli_Chr08	9124483	TT	CC	CC	URR	101506704	uncharacterized protein At4g37920, chloroplastic
SNP_59738_A_9125611	NC_021167.1	Ca_Kabuli_Chr08	9125611	CC	TT	TT	INTERGENIC		
SNP_59739_A_9127548	NC_021167.1	Ca_Kabuli_Chr08	9127548	TT	CC	CC	SYNONYMOUS_CODING	101492494	ABC transporter G family member 17-like
SNP_59740_A_9127551	NC_021167.1	Ca_Kabuli_Chr08	9127551	GG	AA	AA	SYNONYMOUS_CODING	101492494	ABC transporter G family member 17-like
SNP_59742_A_9130826	NC_021167.1	Ca_Kabuli_Chr08	9130826	CC	TT	TT	URR	101492494	ABC transporter G family member 17-like
SNP_59743_A_9131091	NC_021167.1	Ca_Kabuli_Chr08	9131091	GG	AA	AA	URR	101492494	ABC transporter G family member 17-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59744_A_9131275	NC_021167.1	Ca_Kabuli_Chr08	9131275	CC	TT	TT	URR	101492494	ABC transporter G family member 17-like
SNP_59745_A_9131283	NC_021167.1	Ca_Kabuli_Chr08	9131283	TT	CC	CC	URR	101492494	ABC transporter G family member 17-like
SNP_59747_A_9131806	NC_021167.1	Ca_Kabuli_Chr08	9131806	CC	AA	AA	URR	101492494	ABC transporter G family member 17-like
SNP_59748_A_9131813	NC_021167.1	Ca_Kabuli_Chr08	9131813	TT	GG	GG	URR	101492494	ABC transporter G family member 17-like
SNP_59751_A_9151486	NC_021167.1	Ca_Kabuli_Chr08	9151486	AA	GG	GG	DRR	101507357	probable cytosolic oligopeptidase A
SNP_59753_A_9152464	NC_021167.1	Ca_Kabuli_Chr08	9152464	AA	GG	GG	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59755_A_9153303	NC_021167.1	Ca_Kabuli_Chr08	9153303	TT	GG	GG	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59756_A_9153363	NC_021167.1	Ca_Kabuli_Chr08	9153363	CC	TT	TT	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59757_A_9153377	NC_021167.1	Ca_Kabuli_Chr08	9153377	TT	GG	GG	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59758_A_9153538	NC_021167.1	Ca_Kabuli_Chr08	9153538	AA	GG	GG	SYNONYMOUS_CODING	101507357	probable cytosolic oligopeptidase A
SNP_59759_A_9153571	NC_021167.1	Ca_Kabuli_Chr08	9153571	AA	GG	GG	SYNONYMOUS_CODING	101507357	probable cytosolic oligopeptidase A
SNP_59761_A_9157862	NC_021167.1	Ca_Kabuli_Chr08	9157862	CC	TT	TT	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59762_A_9158513	NC_021167.1	Ca_Kabuli_Chr08	9158513	AA	TT	TT	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59763_A_9159030	NC_021167.1	Ca_Kabuli_Chr08	9159030	GG	CC	CC	INTRON	101507357	probable cytosolic oligopeptidase A
SNP_59764_A_9159156	NC_021167.1	Ca_Kabuli_Chr08	9159156	AA	GG	GG	SYNONYMOUS_CODING	101507357	probable cytosolic oligopeptidase A
SNP_59765_A_9159182	NC_021167.1	Ca_Kabuli_Chr08	9159182	AA	CC	CC	NON_SYNONYMOUS_CODING	101507357	probable cytosolic oligopeptidase A
SNP_59766_A_9170474	NC_021167.1	Ca_Kabuli_Chr08	9170474	AA	TT	TT	INTRON	101507995	serine hydroxymethyltransferase, mitochondrial
SNP_59767_A_9170487	NC_021167.1	Ca_Kabuli_Chr08	9170487	GG	TT	TT	INTRON	101507995	serine hydroxymethyltransferase, mitochondrial
SNP_59768_A_9170840	NC_021167.1	Ca_Kabuli_Chr08	9170840	CC	AA	AA	INTRON	101507995	serine hydroxymethyltransferase, mitochondrial
SNP_59769_A_9185176	NC_021167.1	Ca_Kabuli_Chr08	9185176	TT	CC	CC	INTERGENIC		
SNP_59770_A_9185195	NC_021167.1	Ca_Kabuli_Chr08	9185195	GG	TT	TT	INTERGENIC		
SNP_59771_A_9185211	NC_021167.1	Ca_Kabuli_Chr08	9185211	TT	AA	AA	INTERGENIC		

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SNP_59772_A_9185251	NC_021167.1	Ca_Kabuli_Chr08	9185251	AA	TT	TT	INTERGENIC		
SNP_59773_A_9185578	NC_021167.1	Ca_Kabuli_Chr08	9185578	AA	TT	TT	INTERGENIC		
SNP_59774_A_9189444	NC_021167.1	Ca_Kabuli_Chr08	9189444	GG	AA	AA	DRR	101508731	Unknown function
SNP_59775_A_9189622	NC_021167.1	Ca_Kabuli_Chr08	9189622	TT	GG	GG	DRR	101508731	Unknown function
SNP_59776_A_9189675	NC_021167.1	Ca_Kabuli_Chr08	9189675	CC	AA	AA	DRR	101508731	Unknown function
SNP_59777_A_9195648	NC_021167.1	Ca_Kabuli_Chr08	9195648	AA	TT	TT	INTERGENIC		
SNP_59778_A_9197105	NC_021167.1	Ca_Kabuli_Chr08	9197105	CC	AA	AA	INTRON	101509049	agamous-like MADS-box protein AGL21
SNP_59780_A_9200048	NC_021167.1	Ca_Kabuli_Chr08	9200048	CC	GG	GG	INTRON	101509049	agamous-like MADS-box protein AGL21
SNP_59781_A_9200089	NC_021167.1	Ca_Kabuli_Chr08	9200089	TT	CC	CC	INTRON	101509049	agamous-like MADS-box protein AGL21
SNP_59782_A_9200190	NC_021167.1	Ca_Kabuli_Chr08	9200190	GG	AA	AA	INTRON	101509049	agamous-like MADS-box protein AGL21
SNP_59783_A_9200255	NC_021167.1	Ca_Kabuli_Chr08	9200255	CC	GG	GG	INTRON	101509049	agamous-like MADS-box protein AGL21
SNP_59785_A_9201667	NC_021167.1	Ca_Kabuli_Chr08	9201667	AA	TT	TT	URR	101509049	agamous-like MADS-box protein AGL21
SNP_59786_A_9207311	NC_021167.1	Ca_Kabuli_Chr08	9207311	GG	AA	AA	INTERGENIC		
SNP_59787_A_9214528	NC_021167.1	Ca_Kabuli_Chr08	9214528	GG	AA	AA	INTERGENIC		
SNP_59789_A_9215363	NC_021167.1	Ca_Kabuli_Chr08	9215363	CC	TT	TT	INTERGENIC		
SNP_59790_A_9216663	NC_021167.1	Ca_Kabuli_Chr08	9216663	AA	GG	GG	INTERGENIC		
SNP_59791_A_9217317	NC_021167.1	Ca_Kabuli_Chr08	9217317	CC	AA	AA	DRR	101492826	agglutinin-2-like
SNP_59793_A_9218054	NC_021167.1	Ca_Kabuli_Chr08	9218054	CC	TT	TT	DRR	101492826	agglutinin-2-like
SNP_59794_A_9219855	NC_021167.1	Ca_Kabuli_Chr08	9219855	AA	GG	GG	DRR	101509372	agglutinin-2-like
SNP_59795_A_9220054	NC_021167.1	Ca_Kabuli_Chr08	9220054	CC	AA	AA	DRR	101509372	agglutinin-2-like
SNP_59797_A_9220074	NC_021167.1	Ca_Kabuli_Chr08	9220074	TT	AA	AA	DRR	101509372	agglutinin-2-like
SNP_59798_A_9234057	NC_021167.1	Ca_Kabuli_Chr08	9234057	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59799_A_9234261	NC_021167.1	Ca_Kabuli_Chr08	9234261	AA	CC	CC	INTERGENIC		
SNP_59800_A_9273778	NC_021167.1	Ca_Kabuli_Chr08	9273778	AA	CC	CC	URR	101510988	uncharacterized LOC101510988
SNP_59802_A_9274098	NC_021167.1	Ca_Kabuli_Chr08	9274098	CC	TT	TT	URR	101510988	uncharacterized LOC101510988
SNP_59803_A_9274139	NC_021167.1	Ca_Kabuli_Chr08	9274139	TT	CC	CC	URR	101510988	uncharacterized LOC101510988
SNP_59804_A_9274183	NC_021167.1	Ca_Kabuli_Chr08	9274183	TT	CC	CC	URR	101510988	uncharacterized LOC101510988
SNP_59805_A_9274390	NC_021167.1	Ca_Kabuli_Chr08	9274390	AA	CC	CC	URR	101510988	uncharacterized LOC101510988
SNP_59806_A_9274395	NC_021167.1	Ca_Kabuli_Chr08	9274395	AA	TT	TT	URR	101510988	uncharacterized LOC101510988
SNP_59807_A_9274396	NC_021167.1	Ca_Kabuli_Chr08	9274396	TT	CC	CC	URR	101510988	uncharacterized LOC101510988
SNP_59809_A_9283392	NC_021167.1	Ca_Kabuli_Chr08	9283392	AA	GG	GG	INTERGENIC		
SNP_59810_A_9314721	NC_021167.1	Ca_Kabuli_Chr08	9314721	GG	CC	CC	INTERGENIC		
SNP_59811_A_9322562	NC_021167.1	Ca_Kabuli_Chr08	9322562	TT	AA	AA	URR	101511938	dof zinc finger protein DOF5.7
SNP_59812_A_9323905	NC_021167.1	Ca_Kabuli_Chr08	9323905	TT	AA	AA	INTERGENIC		
SNP_59816_A_9363645	NC_021167.1	Ca_Kabuli_Chr08	9363645	TT	GG	GG	INTERGENIC		
SNP_59817_A_9363833	NC_021167.1	Ca_Kabuli_Chr08	9363833	GG	AA	AA	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59818_A_9363872	NC_021167.1	Ca_Kabuli_Chr08	9363872	CC	TT	TT	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59819_A_9363911	NC_021167.1	Ca_Kabuli_Chr08	9363911	CC	GG	GG	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59820_A_9363966	NC_021167.1	Ca_Kabuli_Chr08	9363966	CC	TT	TT	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59821_A_9363967	NC_021167.1	Ca_Kabuli_Chr08	9363967	AA	GG	GG	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59822_A_9364294	NC_021167.1	Ca_Kabuli_Chr08	9364294	AA	CC	CC	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59823_A_9364298	NC_021167.1	Ca_Kabuli_Chr08	9364298	CC	GG	GG	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59824_A_9364467	NC_021167.1	Ca_Kabuli_Chr08	9364467	TT	GG	GG	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59825_A_9364512	NC_021167.1	Ca_Kabuli_Chr08	9364512	AA	CC	CC	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560

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SNP_59827_A_9364587	NC_021167.1	Ca_Kabuli_Chr08	9364587	TT	CC	CC	DRR	101513759	pentatricopeptide repeat-containing protein At5g65560
SNP_59828_A_9371882	NC_021167.1	Ca_Kabuli_Chr08	9371882	TT	CC	CC	INTERGENIC		
SNP_59829_A_9378060	NC_021167.1	Ca_Kabuli_Chr08	9378060	AA	TT	TT	INTERGENIC		
SNP_59830_A_9378135	NC_021167.1	Ca_Kabuli_Chr08	9378135	CC	TT	TT	INTERGENIC		
SNP_59832_A_9379275	NC_021167.1	Ca_Kabuli_Chr08	9379275	CC	AA	AA	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59833_A_9379427	NC_021167.1	Ca_Kabuli_Chr08	9379427	GG	AA	AA	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59834_A_9379467	NC_021167.1	Ca_Kabuli_Chr08	9379467	AA	GG	GG	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59835_A_9379468	NC_021167.1	Ca_Kabuli_Chr08	9379468	GG	AA	AA	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59836_A_9379478	NC_021167.1	Ca_Kabuli_Chr08	9379478	TT	CC	CC	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59837_A_9379578	NC_021167.1	Ca_Kabuli_Chr08	9379578	GG	TT	TT	DRR	101514860	translation initiation factor eIF-2B subunit beta
SNP_59838_A_9387897	NC_021167.1	Ca_Kabuli_Chr08	9387897	TT	CC	CC	INTRON	101514860	translation initiation factor eIF-2B subunit beta
SNP_59839_A_9391880	NC_021167.1	Ca_Kabuli_Chr08	9391880	AA	GG	GG	INTERGENIC		
SNP_59840_A_9395660	NC_021167.1	Ca_Kabuli_Chr08	9395660	CC	TT	TT	INTERGENIC		
SNP_59841_A_9397306	NC_021167.1	Ca_Kabuli_Chr08	9397306	GG	AA	AA	INTERGENIC		
SNP_59842_A_9402075	NC_021167.1	Ca_Kabuli_Chr08	9402075	CC	GG	GG	INTERGENIC		
SNP_59843_A_9402355	NC_021167.1	Ca_Kabuli_Chr08	9402355	AA	TT	TT	INTERGENIC		
SNP_59844_A_9402408	NC_021167.1	Ca_Kabuli_Chr08	9402408	TT	CC	CC	INTERGENIC		
SNP_59845_A_9403873	NC_021167.1	Ca_Kabuli_Chr08	9403873	TT	AA	AA	INTERGENIC		
SNP_59846_A_9416622	NC_021167.1	Ca_Kabuli_Chr08	9416622	AA	CC	CC	INTERGENIC		
SNP_59847_A_9950744	NC_021167.1	Ca_Kabuli_Chr08	9950744	GG	AA	AA	NON_SYNONYMOUS_CODING	101493708	uncharacterized LOC101493708
SNP_59848_A_9950803	NC_021167.1	Ca_Kabuli_Chr08	9950803	CC	TT	TT	INTRON	101493708	uncharacterized LOC101493708
SNP_59849_A_9950828	NC_021167.1	Ca_Kabuli_Chr08	9950828	TT	AA	AA	INTRON	101493708	uncharacterized LOC101493708

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SNP_59850_A_9951643	NC_021167.1	Ca_Kabuli_Chr08	9951643	GG	AA	AA	NON_SYNONYMOUS_CODING	101493708	uncharacterized LOC101493708
SNP_59851_A_9951664	NC_021167.1	Ca_Kabuli_Chr08	9951664	GG	TT	TT	NON_SYNONYMOUS_CODING	101493708	uncharacterized LOC101493708
SNP_59853_A_9953395	NC_021167.1	Ca_Kabuli_Chr08	9953395	CC	AA	AA	URR	101493708	uncharacterized LOC101493708
SNP_59854_A_9957133	NC_021167.1	Ca_Kabuli_Chr08	9957133	CC	AA	AA	INTERGENIC		
SNP_59855_A_9957165	NC_021167.1	Ca_Kabuli_Chr08	9957165	CC	TT	TT	INTERGENIC		
SNP_59856_A_9957573	NC_021167.1	Ca_Kabuli_Chr08	9957573	GG	TT	TT	INTERGENIC		
SNP_59857_A_9957574	NC_021167.1	Ca_Kabuli_Chr08	9957574	TT	AA	AA	INTERGENIC		
SNP_59858_A_9957675	NC_021167.1	Ca_Kabuli_Chr08	9957675	CC	TT	TT	INTERGENIC		
SNP_59859_A_9957717	NC_021167.1	Ca_Kabuli_Chr08	9957717	GG	AA	AA	INTERGENIC		
SNP_59860_A_9958331	NC_021167.1	Ca_Kabuli_Chr08	9958331	AA	GG	GG	DRR	101513126	uncharacterized LOC101513126
SNP_59861_A_9958859	NC_021167.1	Ca_Kabuli_Chr08	9958859	GG	AA	AA	DRR	101513126	uncharacterized LOC101513126
SNP_59862_A_9959002	NC_021167.1	Ca_Kabuli_Chr08	9959002	CC	TT	TT	DRR	101513126	uncharacterized LOC101513126
SNP_59863_A_9959035	NC_021167.1	Ca_Kabuli_Chr08	9959035	AA	CC	CC	DRR	101513126	uncharacterized LOC101513126
SNP_59864_A_9959695	NC_021167.1	Ca_Kabuli_Chr08	9959695	AA	TT	TT	INTERGENIC		
SNP_59865_A_9959696	NC_021167.1	Ca_Kabuli_Chr08	9959696	CC	TT	TT	INTERGENIC		
SNP_59866_A_9959809	NC_021167.1	Ca_Kabuli_Chr08	9959809	CC	TT	TT	INTERGENIC		
SNP_59867_A_9959943	NC_021167.1	Ca_Kabuli_Chr08	9959943	GG	AA	AA	INTERGENIC		
SNP_59868_A_9959949	NC_021167.1	Ca_Kabuli_Chr08	9959949	AA	GG	GG	INTERGENIC		
SNP_59869_A_9959951	NC_021167.1	Ca_Kabuli_Chr08	9959951	TT	CC	CC	INTERGENIC		
SNP_59871_A_9960326	NC_021167.1	Ca_Kabuli_Chr08	9960326	GG	AA	AA	INTERGENIC		
SNP_59872_A_9960472	NC_021167.1	Ca_Kabuli_Chr08	9960472	CC	TT	TT	INTERGENIC		
SNP_59873_A_9960475	NC_021167.1	Ca_Kabuli_Chr08	9960475	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59874_A_9964677	NC_021167.1	Ca_Kabuli_Chr08	9964677	TT	CC	CC	INTRON	101513451	uncharacterized LOC101513451
SNP_59875_A_9964722	NC_021167.1	Ca_Kabuli_Chr08	9964722	GG	AA	AA	INTRON	101513451	uncharacterized LOC101513451
SNP_59876_A_9964726	NC_021167.1	Ca_Kabuli_Chr08	9964726	CC	TT	TT	INTRON	101513451	uncharacterized LOC101513451
SNP_59877_A_9969160	NC_021167.1	Ca_Kabuli_Chr08	9969160	AA	TT	TT	INTRON	101513451	uncharacterized LOC101513451
SNP_59878_A_9969170	NC_021167.1	Ca_Kabuli_Chr08	9969170	CC	GG	GG	INTRON	101513451	uncharacterized LOC101513451
SNP_59879_A_9970910	NC_021167.1	Ca_Kabuli_Chr08	9970910	CC	TT	TT	INTRON	101513451	uncharacterized LOC101513451
SNP_59880_A_9971054	NC_021167.1	Ca_Kabuli_Chr08	9971054	TT	CC	CC	INTRON	101513451	uncharacterized LOC101513451
SNP_59881_A_9971058	NC_021167.1	Ca_Kabuli_Chr08	9971058	TT	GG	GG	INTRON	101513451	uncharacterized LOC101513451
SNP_59882_A_9971182	NC_021167.1	Ca_Kabuli_Chr08	9971182	CC	TT	TT	INTRON	101513451	uncharacterized LOC101513451
SNP_59883_A_9974267	NC_021167.1	Ca_Kabuli_Chr08	9974267	TT	CC	CC	INTERGENIC		
SNP_59884_A_9974279	NC_021167.1	Ca_Kabuli_Chr08	9974279	CC	TT	TT	INTERGENIC		
SNP_59885_A_9974315	NC_021167.1	Ca_Kabuli_Chr08	9974315	CC	TT	TT	INTERGENIC		
SNP_59886_A_9974323	NC_021167.1	Ca_Kabuli_Chr08	9974323	AA	CC	CC	INTERGENIC		
SNP_59887_A_9974325	NC_021167.1	Ca_Kabuli_Chr08	9974325	AA	CC	CC	INTERGENIC		
SNP_59888_A_9974326	NC_021167.1	Ca_Kabuli_Chr08	9974326	GG	AA	AA	INTERGENIC		
SNP_59889_A_9974417	NC_021167.1	Ca_Kabuli_Chr08	9974417	AA	TT	TT	URR	101513451	uncharacterized LOC101513451
SNP_59890_A_9974601	NC_021167.1	Ca_Kabuli_Chr08	9974601	CC	TT	TT	URR	101513451	uncharacterized LOC101513451
SNP_59891_A_9974624	NC_021167.1	Ca_Kabuli_Chr08	9974624	TT	CC	CC	URR	101513451	uncharacterized LOC101513451
SNP_59892_A_9974654	NC_021167.1	Ca_Kabuli_Chr08	9974654	CC	AA	AA	URR	101513451	uncharacterized LOC101513451
SNP_59893_A_9974670	NC_021167.1	Ca_Kabuli_Chr08	9974670	GG	AA	AA	URR	101513451	uncharacterized LOC101513451
SNP_59894_A_9974672	NC_021167.1	Ca_Kabuli_Chr08	9974672	CC	AA	AA	URR	101513451	uncharacterized LOC101513451
SNP_59895_A_9974680	NC_021167.1	Ca_Kabuli_Chr08	9974680	TT	CC	CC	URR	101513451	uncharacterized LOC101513451

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59896_A_9974681	NC_021167.1	Ca_Kabuli_Chr08	9974681	AA	GG	GG	URR	101513451	uncharacterized LOC101513451
SNP_59897_A_9974718	NC_021167.1	Ca_Kabuli_Chr08	9974718	AA	GG	GG	URR	101513451	uncharacterized LOC101513451
SNP_59898_A_9974764	NC_021167.1	Ca_Kabuli_Chr08	9974764	GG	TT	TT	URR	101513451	uncharacterized LOC101513451
SNP_59899_A_9974766	NC_021167.1	Ca_Kabuli_Chr08	9974766	GG	AA	AA	URR	101513451	uncharacterized LOC101513451
SNP_59900_A_9974772	NC_021167.1	Ca_Kabuli_Chr08	9974772	AA	CC	CC	URR	101513451	uncharacterized LOC101513451
SNP_59901_A_10023295	NC_021167.1	Ca_Kabuli_Chr08	10023295	AA	GG	GG	INTERGENIC		
SNP_59902_A_10023302	NC_021167.1	Ca_Kabuli_Chr08	10023302	TT	CC	CC	INTERGENIC		
SNP_59904_A_10023306	NC_021167.1	Ca_Kabuli_Chr08	10023306	TT	CC	CC	INTERGENIC		
SNP_59905_A_10023319	NC_021167.1	Ca_Kabuli_Chr08	10023319	TT	AA	AA	INTERGENIC		
SNP_59906_A_10064569	NC_021167.1	Ca_Kabuli_Chr08	10064569	AA	CC	CC	INTERGENIC		
SNP_59907_A_10064578	NC_021167.1	Ca_Kabuli_Chr08	10064578	TT	GG	GG	INTERGENIC		
SNP_59908_A_10064679	NC_021167.1	Ca_Kabuli_Chr08	10064679	TT	CC	CC	INTERGENIC		
SNP_59909_A_10064692	NC_021167.1	Ca_Kabuli_Chr08	10064692	AA	GG	GG	INTERGENIC		
SNP_59910_A_10064878	NC_021167.1	Ca_Kabuli_Chr08	10064878	AA	GG	GG	INTERGENIC		
SNP_59911_A_10064892	NC_021167.1	Ca_Kabuli_Chr08	10064892	TT	CC	CC	INTERGENIC		
SNP_59912_A_10064904	NC_021167.1	Ca_Kabuli_Chr08	10064904	AA	GG	GG	INTERGENIC		
SNP_59913_A_10064906	NC_021167.1	Ca_Kabuli_Chr08	10064906	AA	CC	CC	INTERGENIC		
SNP_59914_A_10064907	NC_021167.1	Ca_Kabuli_Chr08	10064907	GG	AA	AA	INTERGENIC		
SNP_59915_A_10064987	NC_021167.1	Ca_Kabuli_Chr08	10064987	GG	AA	AA	INTERGENIC		
SNP_59916_A_10069310	NC_021167.1	Ca_Kabuli_Chr08	10069310	AA	GG	GG	INTERGENIC		
SNP_59917_A_10107775	NC_021167.1	Ca_Kabuli_Chr08	10107775	CC	AA	AA	INTERGENIC		
SNP_59919_A_10217222	NC_021167.1	Ca_Kabuli_Chr08	10217222	AA	TT	TT	URR	101501252	uncharacterized LOC101501252

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59920_A_10217410	NC_021167.1	Ca_Kabuli_Chr08	10217410	CC	TT	TT	INTERGENIC		
SNP_59922_A_10356134	NC_021167.1	Ca_Kabuli_Chr08	10356134	AA	CC	CC	INTRON	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59923_A_10356170	NC_021167.1	Ca_Kabuli_Chr08	10356170	AA	GG	GG	INTRON	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59925_A_10357254	NC_021167.1	Ca_Kabuli_Chr08	10357254	AA	CC	CC	INTRON	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59926_A_10357277	NC_021167.1	Ca_Kabuli_Chr08	10357277	GG	AA	AA	INTRON	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59927_A_10362494	NC_021167.1	Ca_Kabuli_Chr08	10362494	CC	AA	AA	URR	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59928_A_10363410	NC_021167.1	Ca_Kabuli_Chr08	10363410	GG	AA	AA	URR	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59929_A_10363499	NC_021167.1	Ca_Kabuli_Chr08	10363499	AA	TT	TT	URR	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59930_A_10363823	NC_021167.1	Ca_Kabuli_Chr08	10363823	AA	CC	CC	URR	101508419	transcription initiation factor TFIID subunit 4b-like
SNP_59931_A_10364122	NC_021167.1	Ca_Kabuli_Chr08	10364122	GG	AA	AA	INTERGENIC		
SNP_59932_A_10364556	NC_021167.1	Ca_Kabuli_Chr08	10364556	CC	TT	TT	INTERGENIC		
SNP_59934_A_10366760	NC_021167.1	Ca_Kabuli_Chr08	10366760	GG	TT	TT	INTERGENIC		
SNP_59935_A_10366874	NC_021167.1	Ca_Kabuli_Chr08	10366874	TT	CC	CC	INTERGENIC		
SNP_59936_A_10367254	NC_021167.1	Ca_Kabuli_Chr08	10367254	TT	CC	CC	INTERGENIC		
SNP_59937_A_10367281	NC_021167.1	Ca_Kabuli_Chr08	10367281	TT	CC	CC	INTERGENIC		
SNP_59938_A_10371991	NC_021167.1	Ca_Kabuli_Chr08	10371991	AA	GG	GG	INTERGENIC		
SNP_59939_A_10373553	NC_021167.1	Ca_Kabuli_Chr08	10373553	CC	GG	GG	INTERGENIC		
SNP_59940_A_10374319	NC_021167.1	Ca_Kabuli_Chr08	10374319	CC	TT	TT	INTERGENIC		
SNP_59941_A_10374825	NC_021167.1	Ca_Kabuli_Chr08	10374825	AA	GG	GG	INTERGENIC		
SNP_59942_A_10374959	NC_021167.1	Ca_Kabuli_Chr08	10374959	TT	CC	CC	INTERGENIC		
SNP_59943_A_10374988	NC_021167.1	Ca_Kabuli_Chr08	10374988	TT	GG	GG	INTERGENIC		
SNP_59944_A_10375081	NC_021167.1	Ca_Kabuli_Chr08	10375081	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59945_A_10375101	NC_021167.1	Ca_Kabuli_Chr08	10375101	TT	CC	CC	INTERGENIC		
SNP_59946_A_10375316	NC_021167.1	Ca_Kabuli_Chr08	10375316	GG	AA	AA	INTERGENIC		
SNP_59947_A_10375381	NC_021167.1	Ca_Kabuli_Chr08	10375381	GG	AA	AA	INTERGENIC		
SNP_59948_A_10375449	NC_021167.1	Ca_Kabuli_Chr08	10375449	GG	TT	TT	DRR	101508732	Unknown function
SNP_59949_A_10375504	NC_021167.1	Ca_Kabuli_Chr08	10375504	CC	AA	AA	DRR	101508732	Unknown function
SNP_59950_A_10375511	NC_021167.1	Ca_Kabuli_Chr08	10375511	TT	CC	CC	DRR	101508732	Unknown function
SNP_59951_A_10375520	NC_021167.1	Ca_Kabuli_Chr08	10375520	AA	GG	GG	DRR	101508732	Unknown function
SNP_59952_A_10375545	NC_021167.1	Ca_Kabuli_Chr08	10375545	AA	TT	TT	DRR	101508732	Unknown function
SNP_59953_A_10375554	NC_021167.1	Ca_Kabuli_Chr08	10375554	AA	TT	TT	DRR	101508732	Unknown function
SNP_59954_A_10375580	NC_021167.1	Ca_Kabuli_Chr08	10375580	CC	TT	TT	DRR	101508732	Unknown function
SNP_59955_A_10375602	NC_021167.1	Ca_Kabuli_Chr08	10375602	AA	GG	GG	DRR	101508732	Unknown function
SNP_59956_A_10375679	NC_021167.1	Ca_Kabuli_Chr08	10375679	TT	CC	CC	DRR	101508732	Unknown function
SNP_59957_A_10375682	NC_021167.1	Ca_Kabuli_Chr08	10375682	CC	GG	GG	DRR	101508732	Unknown function
SNP_59958_A_10375686	NC_021167.1	Ca_Kabuli_Chr08	10375686	AA	GG	GG	DRR	101508732	Unknown function
SNP_59959_A_10375690	NC_021167.1	Ca_Kabuli_Chr08	10375690	CC	TT	TT	DRR	101508732	Unknown function
SNP_59960_A_10375734	NC_021167.1	Ca_Kabuli_Chr08	10375734	TT	AA	AA	DRR	101508732	Unknown function
SNP_59961_A_10375752	NC_021167.1	Ca_Kabuli_Chr08	10375752	CC	TT	TT	DRR	101508732	Unknown function
SNP_59962_A_10375805	NC_021167.1	Ca_Kabuli_Chr08	10375805	GG	AA	AA	DRR	101508732	Unknown function
SNP_59963_A_10375832	NC_021167.1	Ca_Kabuli_Chr08	10375832	GG	AA	AA	DRR	101508732	Unknown function
SNP_59964_A_10375858	NC_021167.1	Ca_Kabuli_Chr08	10375858	TT	CC	CC	DRR	101508732	Unknown function
SNP_59965_A_10375910	NC_021167.1	Ca_Kabuli_Chr08	10375910	TT	CC	CC	DRR	101508732	Unknown function
SNP_59966_A_10375935	NC_021167.1	Ca_Kabuli_Chr08	10375935	GG	CC	CC	DRR	101508732	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59967_A_10376116	NC_021167.1	Ca_Kabuli_Chr08	10376116	AA	GG	GG	DRR	101508732	Unknown function
SNP_59968_A_10376121	NC_021167.1	Ca_Kabuli_Chr08	10376121	CC	TT	TT	DRR	101508732	Unknown function
SNP_59970_A_10376461	NC_021167.1	Ca_Kabuli_Chr08	10376461	CC	AA	AA	NON_SYNONYMOUS_CODING	101508732	Unknown function
SNP_59971_A_10376568	NC_021167.1	Ca_Kabuli_Chr08	10376568	TT	CC	CC	NON_SYNONYMOUS_CODING	101508732	Unknown function
SNP_59972_A_10378470	NC_021167.1	Ca_Kabuli_Chr08	10378470	CC	GG	GG	INTRON	101508732	Unknown function
SNP_59973_A_10378514	NC_021167.1	Ca_Kabuli_Chr08	10378514	GG	AA	AA	INTRON	101508732	Unknown function
SNP_59974_A_10378819	NC_021167.1	Ca_Kabuli_Chr08	10378819	AA	TT	TT	INTERGENIC		
SNP_59975_A_10378852	NC_021167.1	Ca_Kabuli_Chr08	10378852	CC	TT	TT	INTERGENIC		
SNP_59976_A_10378883	NC_021167.1	Ca_Kabuli_Chr08	10378883	GG	AA	AA	INTERGENIC		
SNP_59977_A_10380864	NC_021167.1	Ca_Kabuli_Chr08	10380864	AA	CC	CC	URR	101508732	Unknown function
SNP_59978_A_10380925	NC_021167.1	Ca_Kabuli_Chr08	10380925	CC	TT	TT	URR	101508732	Unknown function
SNP_59979_A_10380968	NC_021167.1	Ca_Kabuli_Chr08	10380968	GG	AA	AA	URR	101508732	Unknown function
SNP_59980_A_10381175	NC_021167.1	Ca_Kabuli_Chr08	10381175	TT	GG	GG	URR	101508732	Unknown function
SNP_59981_A_10381189	NC_021167.1	Ca_Kabuli_Chr08	10381189	TT	CC	CC	URR	101508732	Unknown function
SNP_59982_A_10381216	NC_021167.1	Ca_Kabuli_Chr08	10381216	GG	AA	AA	URR	101508732	Unknown function
SNP_59983_A_10381234	NC_021167.1	Ca_Kabuli_Chr08	10381234	TT	CC	CC	URR	101508732	Unknown function
SNP_59984_A_10381256	NC_021167.1	Ca_Kabuli_Chr08	10381256	TT	CC	CC	URR	101508732	Unknown function
SNP_59985_A_10381307	NC_021167.1	Ca_Kabuli_Chr08	10381307	CC	AA	AA	URR	101508732	Unknown function
SNP_59986_A_10381473	NC_021167.1	Ca_Kabuli_Chr08	10381473	TT	CC	CC	URR	101508732	Unknown function
SNP_59987_A_10381502	NC_021167.1	Ca_Kabuli_Chr08	10381502	GG	AA	AA	URR	101508732	Unknown function
SNP_59988_A_10381782	NC_021167.1	Ca_Kabuli_Chr08	10381782	CC	TT	TT	INTERGENIC		
SNP_59989_A_10386964	NC_021167.1	Ca_Kabuli_Chr08	10386964	AA	TT	TT	URR	101488498	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_59990_A_10387025	NC_021167.1	Ca_Kabuli_Chr08	10387025	TT	CC	CC	URR	101488498	Unknown function
SNP_59991_A_10387074	NC_021167.1	Ca_Kabuli_Chr08	10387074	AA	GG	GG	URR	101488498	Unknown function
SNP_59992_A_10387189	NC_021167.1	Ca_Kabuli_Chr08	10387189	TT	AA	AA	DRR	101488838	Unknown function
SNP_59993_A_10387233	NC_021167.1	Ca_Kabuli_Chr08	10387233	TT	CC	CC	DRR	101488838	Unknown function
SNP_59994_A_10387238	NC_021167.1	Ca_Kabuli_Chr08	10387238	TT	AA	AA	DRR	101488838	Unknown function
SNP_59995_A_10387267	NC_021167.1	Ca_Kabuli_Chr08	10387267	AA	GG	GG	DRR	101488838	Unknown function
SNP_59996_A_10387292	NC_021167.1	Ca_Kabuli_Chr08	10387292	GG	TT	TT	DRR	101488838	Unknown function
SNP_59997_A_10387321	NC_021167.1	Ca_Kabuli_Chr08	10387321	TT	GG	GG	DRR	101488838	Unknown function
SNP_59998_A_10387409	NC_021167.1	Ca_Kabuli_Chr08	10387409	AA	CC	CC	DRR	101488838	Unknown function
SNP_59999_A_10387436	NC_021167.1	Ca_Kabuli_Chr08	10387436	TT	GG	GG	DRR	101488838	Unknown function
SNP_60000_A_10387454	NC_021167.1	Ca_Kabuli_Chr08	10387454	AA	GG	GG	DRR	101488838	Unknown function
SNP_60001_A_10387630	NC_021167.1	Ca_Kabuli_Chr08	10387630	GG	AA	AA	DRR	101488838	Unknown function
SNP_60002_A_10387683	NC_021167.1	Ca_Kabuli_Chr08	10387683	GG	TT	TT	DRR	101488838	Unknown function
SNP_60003_A_10387693	NC_021167.1	Ca_Kabuli_Chr08	10387693	CC	TT	TT	DRR	101488838	Unknown function
SNP_60004_A_10387698	NC_021167.1	Ca_Kabuli_Chr08	10387698	AA	TT	TT	DRR	101488838	Unknown function
SNP_60005_A_10387738	NC_021167.1	Ca_Kabuli_Chr08	10387738	GG	CC	CC	DRR	101488838	Unknown function
SNP_60006_A_10403285	NC_021167.1	Ca_Kabuli_Chr08	10403285	AA	TT	TT	INTERGENIC		
SNP_60007_A_10412284	NC_021167.1	Ca_Kabuli_Chr08	10412284	GG	AA	AA	INTERGENIC		
SNP_60008_A_10412347	NC_021167.1	Ca_Kabuli_Chr08	10412347	CC	TT	TT	INTERGENIC		
SNP_60010_A_10509107	NC_021167.1	Ca_Kabuli_Chr08	10509107	CC	TT	TT	INTRON	101490774	uncharacterized LOC101490774
SNP_60011_A_10509130	NC_021167.1	Ca_Kabuli_Chr08	10509130	AA	CC	CC	INTRON	101490774	uncharacterized LOC101490774
SNP_60012_A_10509134	NC_021167.1	Ca_Kabuli_Chr08	10509134	CC	TT	TT	INTRON	101490774	uncharacterized LOC101490774

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60013_A_10509191	NC_021167.1	Ca_Kabuli_Chr08	10509191	TT	CC	CC	INTRON	101490774	uncharacterized LOC101490774
SNP_60014_A_10509582	NC_021167.1	Ca_Kabuli_Chr08	10509582	GG	AA	AA	INTRON	101490774	uncharacterized LOC101490774
SNP_60016_A_10556963	NC_021167.1	Ca_Kabuli_Chr08	10556963	TT	CC	CC	INTERGENIC		
SNP_60017_A_10580177	NC_021167.1	Ca_Kabuli_Chr08	10580177	GG	CC	CC	INTERGENIC		
SNP_60018_A_10589752	NC_021167.1	Ca_Kabuli_Chr08	10589752	CC	TT	TT	INTERGENIC		
SNP_60019_A_10589808	NC_021167.1	Ca_Kabuli_Chr08	10589808	GG	AA	AA	INTERGENIC		
SNP_60020_A_10590011	NC_021167.1	Ca_Kabuli_Chr08	10590011	CC	GG	GG	INTERGENIC		
SNP_60021_A_10590020	NC_021167.1	Ca_Kabuli_Chr08	10590020	TT	CC	CC	INTERGENIC		
SNP_60022_A_10590065	NC_021167.1	Ca_Kabuli_Chr08	10590065	GG	CC	CC	INTERGENIC		
SNP_60024_A_10590230	NC_021167.1	Ca_Kabuli_Chr08	10590230	AA	TT	TT	INTERGENIC		
SNP_60025_A_10590404	NC_021167.1	Ca_Kabuli_Chr08	10590404	TT	AA	AA	INTERGENIC		
SNP_60026_A_10590416	NC_021167.1	Ca_Kabuli_Chr08	10590416	GG	AA	AA	INTERGENIC		
SNP_60027_A_10590452	NC_021167.1	Ca_Kabuli_Chr08	10590452	CC	TT	TT	INTERGENIC		
SNP_60028_A_10590693	NC_021167.1	Ca_Kabuli_Chr08	10590693	GG	AA	AA	INTERGENIC		
SNP_60029_A_10590752	NC_021167.1	Ca_Kabuli_Chr08	10590752	CC	AA	AA	INTERGENIC		
SNP_60030_A_10590884	NC_021167.1	Ca_Kabuli_Chr08	10590884	CC	TT	TT	INTERGENIC		
SNP_60031_A_10591047	NC_021167.1	Ca_Kabuli_Chr08	10591047	GG	TT	TT	INTERGENIC		
SNP_60032_A_10591062	NC_021167.1	Ca_Kabuli_Chr08	10591062	CC	AA	AA	INTERGENIC		
SNP_60033_A_10591102	NC_021167.1	Ca_Kabuli_Chr08	10591102	TT	AA	AA	INTERGENIC		
SNP_60035_A_10591148	NC_021167.1	Ca_Kabuli_Chr08	10591148	GG	TT	TT	INTERGENIC		
SNP_60036_A_10591281	NC_021167.1	Ca_Kabuli_Chr08	10591281	AA	GG	GG	INTERGENIC		
SNP_60037_A_10591282	NC_021167.1	Ca_Kabuli_Chr08	10591282	CC	AA	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60038_A_10591284	NC_021167.1	Ca_Kabuli_Chr08	10591284	CC	TT	TT	INTERGENIC			
SNP_60039_A_10591288	NC_021167.1	Ca_Kabuli_Chr08	10591288	AA	TT	TT	INTERGENIC			
SNP_60040_A_10591289	NC_021167.1	Ca_Kabuli_Chr08	10591289	CC	TT	TT	INTERGENIC			
SNP_60041_A_10591291	NC_021167.1	Ca_Kabuli_Chr08	10591291	TT	CC	CC	INTERGENIC			
SNP_60042_A_10591315	NC_021167.1	Ca_Kabuli_Chr08	10591315	TT	CC	CC	INTERGENIC			
SNP_60043_A_10591327	NC_021167.1	Ca_Kabuli_Chr08	10591327	AA	TT	TT	INTERGENIC			
SNP_60044_A_10591331	NC_021167.1	Ca_Kabuli_Chr08	10591331	AA	GG	GG	INTERGENIC			
SNP_60045_A_10591334	NC_021167.1	Ca_Kabuli_Chr08	10591334	CC	GG	GG	INTERGENIC			
SNP_60046_A_10591339	NC_021167.1	Ca_Kabuli_Chr08	10591339	CC	AA	AA	INTERGENIC			
SNP_60047_A_10591355	NC_021167.1	Ca_Kabuli_Chr08	10591355	GG	AA	AA	INTERGENIC			
SNP_60048_A_10591463	NC_021167.1	Ca_Kabuli_Chr08	10591463	GG	AA	AA	INTERGENIC			
SNP_60049_A_10591529	NC_021167.1	Ca_Kabuli_Chr08	10591529	TT	AA	AA	INTERGENIC			
SNP_60050_A_10591560	NC_021167.1	Ca_Kabuli_Chr08	10591560	TT	CC	CC	INTERGENIC			
SNP_60051_A_10612439	NC_021167.1	Ca_Kabuli_Chr08	10612439	AA	CC	CC	INTERGENIC			
SNP_60052_A_10612756	NC_021167.1	Ca_Kabuli_Chr08	10612756	GG	AA	AA	INTERGENIC			
SNP_60053_A_10612771	NC_021167.1	Ca_Kabuli_Chr08	10612771	GG	AA	AA	INTERGENIC			
SNP_60054_A_10612789	NC_021167.1	Ca_Kabuli_Chr08	10612789	AA	GG	GG	INTERGENIC			
SNP_60056_A_10631954	NC_021167.1	Ca_Kabuli_Chr08	10631954	AA	GG	GG	INTERGENIC			
SNP_60057_A_10645712	NC_021167.1	Ca_Kabuli_Chr08	10645712	CC	TT	TT	INTERGENIC			
SNP_60058_A_10645835	NC_021167.1	Ca_Kabuli_Chr08	10645835	AA	TT	TT	INTERGENIC			
SNP_60059_A_10646201	NC_021167.1	Ca_Kabuli_Chr08	10646201	CC	GG	GG	INTERGENIC			
SNP_60062_A_10686627	NC_021167.1	Ca_Kabuli_Chr08	10686627	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60063_A_10699341	NC_021167.1	Ca_Kabuli_Chr08	10699341	TT	CC	CC	URR	101504019	chlorophyll a-b binding protein AB80, chloroplastic-like
SNP_60064_A_10699353	NC_021167.1	Ca_Kabuli_Chr08	10699353	AA	CC	CC	URR	101504019	chlorophyll a-b binding protein AB80, chloroplastic-like
SNP_60065_A_10699360	NC_021167.1	Ca_Kabuli_Chr08	10699360	CC	TT	TT	URR	101504019	chlorophyll a-b binding protein AB80, chloroplastic-like
SNP_60066_A_10701357	NC_021167.1	Ca_Kabuli_Chr08	10701357	AA	CC	CC	INTERGENIC		
SNP_60067_A_10701361	NC_021167.1	Ca_Kabuli_Chr08	10701361	AA	CC	CC	INTERGENIC		
SNP_60068_A_10701397	NC_021167.1	Ca_Kabuli_Chr08	10701397	AA	CC	CC	INTERGENIC		
SNP_60069_A_10701411	NC_021167.1	Ca_Kabuli_Chr08	10701411	GG	AA	AA	INTERGENIC		
SNP_60070_A_10701414	NC_021167.1	Ca_Kabuli_Chr08	10701414	CC	TT	TT	INTERGENIC		
SNP_60071_A_10701438	NC_021167.1	Ca_Kabuli_Chr08	10701438	AA	GG	GG	INTERGENIC		
SNP_60072_A_10701470	NC_021167.1	Ca_Kabuli_Chr08	10701470	AA	GG	GG	INTERGENIC		
SNP_60073_A_10701523	NC_021167.1	Ca_Kabuli_Chr08	10701523	AA	TT	TT	INTERGENIC		
SNP_60074_A_10701556	NC_021167.1	Ca_Kabuli_Chr08	10701556	CC	AA	AA	INTERGENIC		
SNP_60075_A_10701601	NC_021167.1	Ca_Kabuli_Chr08	10701601	CC	TT	TT	INTERGENIC		
SNP_60076_A_10701611	NC_021167.1	Ca_Kabuli_Chr08	10701611	AA	GG	GG	INTERGENIC		
SNP_60077_A_10701698	NC_021167.1	Ca_Kabuli_Chr08	10701698	GG	AA	AA	INTERGENIC		
SNP_60078_A_10701702	NC_021167.1	Ca_Kabuli_Chr08	10701702	GG	AA	AA	INTERGENIC		
SNP_60079_A_10701719	NC_021167.1	Ca_Kabuli_Chr08	10701719	AA	GG	GG	INTERGENIC		
SNP_60080_A_10701745	NC_021167.1	Ca_Kabuli_Chr08	10701745	CC	GG	GG	INTERGENIC		
SNP_60081_A_10701763	NC_021167.1	Ca_Kabuli_Chr08	10701763	TT	AA	AA	INTERGENIC		
SNP_60082_A_10701815	NC_021167.1	Ca_Kabuli_Chr08	10701815	CC	TT	TT	INTERGENIC		
SNP_60083_A_10701915	NC_021167.1	Ca_Kabuli_Chr08	10701915	CC	TT	TT	INTERGENIC		
SNP_60084_A_10701925	NC_021167.1	Ca_Kabuli_Chr08	10701925	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60087_A_10728066	NC_021167.1	Ca_Kabuli_Chr08	10728066	CC	AA	AA	INTERGENIC		
SNP_60088_A_10728253	NC_021167.1	Ca_Kabuli_Chr08	10728253	GG	AA	AA	INTERGENIC		
SNP_60089_A_10762466	NC_021167.1	Ca_Kabuli_Chr08	10762466	AA	GG	GG	DRR	101505301	uncharacterized LOC101505301
SNP_60090_A_10790566	NC_021167.1	Ca_Kabuli_Chr08	10790566	TT	GG	GG	INTERGENIC		
SNP_60091_A_10827800	NC_021167.1	Ca_Kabuli_Chr08	10827800	CC	TT	TT	DRR	101505633	extensin-like
SNP_60092_A_10905114	NC_021167.1	Ca_Kabuli_Chr08	10905114	CC	AA	AA	NON_SYNONYMOUS_CODING	101506266	Unknown function
SNP_60093_A_10915585	NC_021167.1	Ca_Kabuli_Chr08	10915585	AA	TT	TT	INTERGENIC		
SNP_60094_A_10915594	NC_021167.1	Ca_Kabuli_Chr08	10915594	CC	AA	AA	INTERGENIC		
SNP_60096_A_10938544	NC_021167.1	Ca_Kabuli_Chr08	10938544	CC	AA	AA	INTERGENIC		
SNP_60097_A_10948285	NC_021167.1	Ca_Kabuli_Chr08	10948285	CC	TT	TT	NON_SYNONYMOUS_CODING	101507565	Unknown function
SNP_60098_A_10948318	NC_021167.1	Ca_Kabuli_Chr08	10948318	TT	CC	CC	NON_SYNONYMOUS_CODING	101507565	Unknown function
SNP_60099_A_10973489	NC_021167.1	Ca_Kabuli_Chr08	10973489	CC	TT	TT	INTRON	101508191	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_60100_A_10973662	NC_021167.1	Ca_Kabuli_Chr08	10973662	TT	CC	CC	INTRON	101508191	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_60102_A_10973867	NC_021167.1	Ca_Kabuli_Chr08	10973867	AA	CC	CC	INTRON	101508191	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_60103_A_11015471	NC_021167.1	Ca_Kabuli_Chr08	11015471	CC	GG	GG	DRR	101508828	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_60104_A_11015550	NC_021167.1	Ca_Kabuli_Chr08	11015550	AA	CC	CC	DRR	101508828	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_60106_A_11045493	NC_021167.1	Ca_Kabuli_Chr08	11045493	AA	CC	CC	INTERGENIC		
SNP_60107_A_11059311	NC_021167.1	Ca_Kabuli_Chr08	11059311	GG	CC	CC	INTERGENIC		
SNP_60108_A_11070494	NC_021167.1	Ca_Kabuli_Chr08	11070494	AA	CC	CC	URR	101509900	MATE efflux family protein 5-like
SNP_60109_A_11070504	NC_021167.1	Ca_Kabuli_Chr08	11070504	AA	TT	TT	URR	101509900	MATE efflux family protein 5-like
SNP_60110_A_11070732	NC_021167.1	Ca_Kabuli_Chr08	11070732	CC	TT	TT	URR	101509900	MATE efflux family protein 5-like
SNP_60112_A_11070812	NC_021167.1	Ca_Kabuli_Chr08	11070812	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60113_A_11070834	NC_021167.1	Ca_Kabuli_Chr08	11070834	GG	AA	AA	INTERGENIC		
SNP_60114_A_11071072	NC_021167.1	Ca_Kabuli_Chr08	11071072	CC	TT	TT	INTERGENIC		
SNP_60115_A_11072869	NC_021167.1	Ca_Kabuli_Chr08	11072869	GG	AA	AA	INTERGENIC		
SNP_60116_A_11072896	NC_021167.1	Ca_Kabuli_Chr08	11072896	TT	CC	CC	INTERGENIC		
SNP_60117_A_11084024	NC_021167.1	Ca_Kabuli_Chr08	11084024	GG	AA	AA	DRR	101510554	MATE efflux family protein 5-like
SNP_60118_A_11088701	NC_021167.1	Ca_Kabuli_Chr08	11088701	AA	GG	GG	INTRON	101510554	MATE efflux family protein 5-like
SNP_60119_A_11091882	NC_021167.1	Ca_Kabuli_Chr08	11091882	TT	AA	AA	URR	101510554	MATE efflux family protein 5-like
SNP_60120_A_11092304	NC_021167.1	Ca_Kabuli_Chr08	11092304	AA	GG	GG	URR	101510554	MATE efflux family protein 5-like
SNP_60121_A_11092370	NC_021167.1	Ca_Kabuli_Chr08	11092370	GG	AA	AA	URR	101510554	MATE efflux family protein 5-like
SNP_60122_A_11101158	NC_021167.1	Ca_Kabuli_Chr08	11101158	TT	CC	CC	INTRON	101510875	cyclin-dependent kinase D-3-like
SNP_60123_A_11101161	NC_021167.1	Ca_Kabuli_Chr08	11101161	TT	CC	CC	INTRON	101510875	cyclin-dependent kinase D-3-like
SNP_60124_A_11102884	NC_021167.1	Ca_Kabuli_Chr08	11102884	TT	GG	GG	INTRON	101510875	cyclin-dependent kinase D-3-like
SNP_60125_A_11107152	NC_021167.1	Ca_Kabuli_Chr08	11107152	TT	AA	AA	URR	101510875	cyclin-dependent kinase D-3-like
SNP_60126_A_11107399	NC_021167.1	Ca_Kabuli_Chr08	11107399	GG	TT	TT	URR	101510875	cyclin-dependent kinase D-3-like
SNP_60127_A_11109572	NC_021167.1	Ca_Kabuli_Chr08	11109572	AA	TT	TT	INTERGENIC		
SNP_60128_A_11113300	NC_021167.1	Ca_Kabuli_Chr08	11113300	CC	TT	TT	INTERGENIC		
SNP_60129_A_11113467	NC_021167.1	Ca_Kabuli_Chr08	11113467	GG	AA	AA	INTERGENIC		
SNP_60133_A_11143619	NC_021167.1	Ca_Kabuli_Chr08	11143619	TT	AA	AA	INTERGENIC		
SNP_60134_A_11143802	NC_021167.1	Ca_Kabuli_Chr08	11143802	TT	AA	AA	INTERGENIC		
SNP_60135_A_11143902	NC_021167.1	Ca_Kabuli_Chr08	11143902	GG	AA	AA	INTERGENIC		
SNP_60136_A_11143959	NC_021167.1	Ca_Kabuli_Chr08	11143959	AA	GG	GG	INTERGENIC		
SNP_60137_A_11143996	NC_021167.1	Ca_Kabuli_Chr08	11143996	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60138_A_11144005	NC_021167.1	Ca_Kabuli_Chr08	11144005	GG	AA	AA	INTERGENIC			
SNP_60139_A_11144032	NC_021167.1	Ca_Kabuli_Chr08	11144032	TT	CC	CC	INTERGENIC			
SNP_60140_A_11144190	NC_021167.1	Ca_Kabuli_Chr08	11144190	GG	AA	AA	INTERGENIC			
SNP_60141_A_11144269	NC_021167.1	Ca_Kabuli_Chr08	11144269	TT	CC	CC	INTERGENIC			
SNP_60143_A_11144397	NC_021167.1	Ca_Kabuli_Chr08	11144397	AA	TT	TT	INTERGENIC			
SNP_60144_A_11144554	NC_021167.1	Ca_Kabuli_Chr08	11144554	TT	CC	CC	INTERGENIC			
SNP_60145_A_11144773	NC_021167.1	Ca_Kabuli_Chr08	11144773	GG	AA	AA	INTERGENIC			
SNP_60146_A_11144874	NC_021167.1	Ca_Kabuli_Chr08	11144874	GG	TT	TT	INTERGENIC			
SNP_60147_A_11144943	NC_021167.1	Ca_Kabuli_Chr08	11144943	GG	AA	AA	INTERGENIC			
SNP_60148_A_11144944	NC_021167.1	Ca_Kabuli_Chr08	11144944	GG	AA	AA	INTERGENIC			
SNP_60149_A_11145023	NC_021167.1	Ca_Kabuli_Chr08	11145023	GG	AA	AA	INTERGENIC			
SNP_60150_A_11145378	NC_021167.1	Ca_Kabuli_Chr08	11145378	TT	GG	GG	INTERGENIC			
SNP_60151_A_11145609	NC_021167.1	Ca_Kabuli_Chr08	11145609	AA	CC	CC	INTERGENIC			
SNP_60154_A_11145871	NC_021167.1	Ca_Kabuli_Chr08	11145871	CC	AA	AA	INTERGENIC			
SNP_60155_A_11145921	NC_021167.1	Ca_Kabuli_Chr08	11145921	AA	GG	GG	INTERGENIC			
SNP_60156_A_11146172	NC_021167.1	Ca_Kabuli_Chr08	11146172	CC	GG	GG	INTERGENIC			
SNP_60159_A_11146576	NC_021167.1	Ca_Kabuli_Chr08	11146576	CC	TT	TT	INTERGENIC			
SNP_60160_A_11146612	NC_021167.1	Ca_Kabuli_Chr08	11146612	CC	TT	TT	INTERGENIC			
SNP_60161_A_11146679	NC_021167.1	Ca_Kabuli_Chr08	11146679	TT	AA	AA	INTERGENIC			
SNP_60163_A_11146812	NC_021167.1	Ca_Kabuli_Chr08	11146812	CC	TT	TT	INTERGENIC			
SNP_60164_A_11146889	NC_021167.1	Ca_Kabuli_Chr08	11146889	AA	GG	GG	INTERGENIC			
SNP_60165_A_11146958	NC_021167.1	Ca_Kabuli_Chr08	11146958	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60166_A_11147960	NC_021167.1	Ca_Kabuli_Chr08	11147960	TT	CC	CC	INTERGENIC		
SNP_60168_A_11151651	NC_021167.1	Ca_Kabuli_Chr08	11151651	GG	TT	TT	DRR	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60169_A_11151656	NC_021167.1	Ca_Kabuli_Chr08	11151656	CC	TT	TT	DRR	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60170_A_11151928	NC_021167.1	Ca_Kabuli_Chr08	11151928	GG	AA	AA	SYNONYMOUS_CODING	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60171_A_11153733	NC_021167.1	Ca_Kabuli_Chr08	11153733	AA	CC	CC	INTRON	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60173_A_11154936	NC_021167.1	Ca_Kabuli_Chr08	11154936	TT	GG	GG	INTRON	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60174_A_11155211	NC_021167.1	Ca_Kabuli_Chr08	11155211	CC	AA	AA	INTRON	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60175_A_11155244	NC_021167.1	Ca_Kabuli_Chr08	11155244	CC	TT	TT	INTRON	101503033	F-box/kelch-repeat protein At3g06240-like
SNP_60176_A_11157955	NC_021167.1	Ca_Kabuli_Chr08	11157955	TT	CC	CC	INTERGENIC		
SNP_60177_A_11158139	NC_021167.1	Ca_Kabuli_Chr08	11158139	TT	CC	CC	INTERGENIC		
SNP_60178_A_11158208	NC_021167.1	Ca_Kabuli_Chr08	11158208	TT	CC	CC	INTERGENIC		
SNP_60179_A_11158320	NC_021167.1	Ca_Kabuli_Chr08	11158320	CC	TT	TT	INTERGENIC		
SNP_60180_A_11158347	NC_021167.1	Ca_Kabuli_Chr08	11158347	GG	AA	AA	INTERGENIC		
SNP_60181_A_11158490	NC_021167.1	Ca_Kabuli_Chr08	11158490	TT	GG	GG	INTERGENIC		
SNP_60182_A_11158496	NC_021167.1	Ca_Kabuli_Chr08	11158496	AA	GG	GG	INTERGENIC		
SNP_60183_A_11158532	NC_021167.1	Ca_Kabuli_Chr08	11158532	TT	CC	CC	INTERGENIC		
SNP_60184_A_11158552	NC_021167.1	Ca_Kabuli_Chr08	11158552	CC	AA	AA	INTERGENIC		
SNP_60185_A_11158832	NC_021167.1	Ca_Kabuli_Chr08	11158832	GG	TT	TT	INTERGENIC		
SNP_60186_A_11159279	NC_021167.1	Ca_Kabuli_Chr08	11159279	GG	TT	TT	INTERGENIC		
SNP_60187_A_11160031	NC_021167.1	Ca_Kabuli_Chr08	11160031	TT	CC	CC	INTERGENIC		
SNP_60188_A_11160040	NC_021167.1	Ca_Kabuli_Chr08	11160040	AA	GG	GG	INTERGENIC		
SNP_60189_A_11160381	NC_021167.1	Ca_Kabuli_Chr08	11160381	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60190_A_11161522	NC_021167.1	Ca_Kabuli_Chr08	11161522	CC	TT	TT	DRR	101503360	F-box/kelch-repeat protein At3g06240-like
SNP_60191_A_11167196	NC_021167.1	Ca_Kabuli_Chr08	11167196	TT	CC	CC	INTERGENIC		
SNP_60192_A_11167203	NC_021167.1	Ca_Kabuli_Chr08	11167203	GG	AA	AA	INTERGENIC		
SNP_60193_A_11168788	NC_021167.1	Ca_Kabuli_Chr08	11168788	CC	GG	GG	INTERGENIC		
SNP_60194_A_11168880	NC_021167.1	Ca_Kabuli_Chr08	11168880	CC	TT	TT	INTERGENIC		
SNP_60195_A_11168904	NC_021167.1	Ca_Kabuli_Chr08	11168904	CC	GG	GG	INTERGENIC		
SNP_60196_A_11168930	NC_021167.1	Ca_Kabuli_Chr08	11168930	AA	GG	GG	INTERGENIC		
SNP_60197_A_11168931	NC_021167.1	Ca_Kabuli_Chr08	11168931	GG	AA	AA	INTERGENIC		
SNP_60198_A_11168949	NC_021167.1	Ca_Kabuli_Chr08	11168949	TT	AA	AA	INTERGENIC		
SNP_60199_A_11169105	NC_021167.1	Ca_Kabuli_Chr08	11169105	TT	CC	CC	INTERGENIC		
SNP_60200_A_11169132	NC_021167.1	Ca_Kabuli_Chr08	11169132	TT	CC	CC	INTERGENIC		
SNP_60201_A_11169151	NC_021167.1	Ca_Kabuli_Chr08	11169151	GG	CC	CC	INTERGENIC		
SNP_60202_A_11169198	NC_021167.1	Ca_Kabuli_Chr08	11169198	GG	AA	AA	INTERGENIC		
SNP_60203_A_11169285	NC_021167.1	Ca_Kabuli_Chr08	11169285	CC	GG	GG	INTERGENIC		
SNP_60204_A_11169346	NC_021167.1	Ca_Kabuli_Chr08	11169346	AA	GG	GG	INTERGENIC		
SNP_60205_A_11170762	NC_021167.1	Ca_Kabuli_Chr08	11170762	AA	GG	GG	INTERGENIC		
SNP_60206_A_11173116	NC_021167.1	Ca_Kabuli_Chr08	11173116	TT	GG	GG	INTERGENIC		
SNP_60207_A_11173549	NC_021167.1	Ca_Kabuli_Chr08	11173549	CC	TT	TT	INTERGENIC		
SNP_60208_A_11173552	NC_021167.1	Ca_Kabuli_Chr08	11173552	AA	GG	GG	INTERGENIC		
SNP_60209_A_11173601	NC_021167.1	Ca_Kabuli_Chr08	11173601	CC	TT	TT	INTERGENIC		
SNP_60210_A_11174000	NC_021167.1	Ca_Kabuli_Chr08	11174000	CC	AA	AA	INTERGENIC		
SNP_60211_A_11180842	NC_021167.1	Ca_Kabuli_Chr08	11180842	GG	AA	AA	INTERGENIC		

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SNP_60212_A_11180956	NC_021167.1	Ca_Kabuli_Chr08	11180956	CC	AA	AA	INTERGENIC			
SNP_60213_A_11181115	NC_021167.1	Ca_Kabuli_Chr08	11181115	AA	CC	CC	INTERGENIC			
SNP_60214_A_11186109	NC_021167.1	Ca_Kabuli_Chr08	11186109	GG	AA	AA	DRR	101511736		zinc finger protein VAR3, chloroplastic
SNP_60218_A_11317617	NC_021167.1	Ca_Kabuli_Chr08	11317617	TT	AA	AA	INTERGENIC			
SNP_60219_A_11317735	NC_021167.1	Ca_Kabuli_Chr08	11317735	CC	TT	TT	INTERGENIC			
SNP_60220_A_11321288	NC_021167.1	Ca_Kabuli_Chr08	11321288	CC	TT	TT	INTERGENIC			
SNP_60221_A_11340332	NC_021167.1	Ca_Kabuli_Chr08	11340332	CC	TT	TT	INTERGENIC			
SNP_60223_A_11359909	NC_021167.1	Ca_Kabuli_Chr08	11359909	CC	GG	GG	INTERGENIC			
SNP_60224_A_11391079	NC_021167.1	Ca_Kabuli_Chr08	11391079	AA	TT	TT	INTERGENIC			
SNP_60225_A_11415231	NC_021167.1	Ca_Kabuli_Chr08	11415231	CC	AA	AA	INTERGENIC			
SNP_60226_A_11415518	NC_021167.1	Ca_Kabuli_Chr08	11415518	AA	GG	GG	INTERGENIC			
SNP_60227_A_11415552	NC_021167.1	Ca_Kabuli_Chr08	11415552	AA	GG	GG	INTERGENIC			
SNP_60228_A_11415554	NC_021167.1	Ca_Kabuli_Chr08	11415554	GG	AA	AA	INTERGENIC			
SNP_60229_A_11421691	NC_021167.1	Ca_Kabuli_Chr08	11421691	AA	GG	GG	INTERGENIC			
SNP_60230_A_11422407	NC_021167.1	Ca_Kabuli_Chr08	11422407	AA	GG	GG	INTERGENIC			
SNP_60231_A_11422483	NC_021167.1	Ca_Kabuli_Chr08	11422483	CC	AA	AA	INTERGENIC			
SNP_60232_A_11422491	NC_021167.1	Ca_Kabuli_Chr08	11422491	TT	GG	GG	INTERGENIC			
SNP_60233_A_11422497	NC_021167.1	Ca_Kabuli_Chr08	11422497	GG	AA	AA	INTERGENIC			
SNP_60234_A_11422533	NC_021167.1	Ca_Kabuli_Chr08	11422533	AA	TT	TT	INTERGENIC			
SNP_60235_A_11422581	NC_021167.1	Ca_Kabuli_Chr08	11422581	AA	CC	CC	INTERGENIC			
SNP_60236_A_11422612	NC_021167.1	Ca_Kabuli_Chr08	11422612	GG	AA	AA	INTERGENIC			
SNP_60237_A_11422847	NC_021167.1	Ca_Kabuli_Chr08	11422847	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60238_A_11448950	NC_021167.1	Ca_Kabuli_Chr08	11448950	GG	AA	AA	SYNONYMOUS_CODING	101508193	F-box/kelch-repeat protein At3g06240-like
SNP_60239_A_11449290	NC_021167.1	Ca_Kabuli_Chr08	11449290	AA	GG	GG	NON_SYNONYMOUS_CODING	101508193	F-box/kelch-repeat protein At3g06240-like
SNP_60240_A_11449296	NC_021167.1	Ca_Kabuli_Chr08	11449296	GG	AA	AA	NON_SYNONYMOUS_CODING	101508193	F-box/kelch-repeat protein At3g06240-like
SNP_60241_A_11458316	NC_021167.1	Ca_Kabuli_Chr08	11458316	TT	GG	GG	NON_SYNONYMOUS_CODING	101508518	F-box/kelch-repeat protein At3g06240-like
SNP_60242_A_11458565	NC_021167.1	Ca_Kabuli_Chr08	11458565	CC	TT	TT	NON_SYNONYMOUS_CODING	101508518	F-box/kelch-repeat protein At3g06240-like
SNP_60243_A_11458601	NC_021167.1	Ca_Kabuli_Chr08	11458601	GG	AA	AA	NON_SYNONYMOUS_CODING	101508518	F-box/kelch-repeat protein At3g06240-like
SNP_60244_A_11463503	NC_021167.1	Ca_Kabuli_Chr08	11463503	GG	AA	AA	INTERGENIC		
SNP_60245_A_11523118	NC_021167.1	Ca_Kabuli_Chr08	11523118	TT	GG	GG	INTERGENIC		
SNP_60246_A_11528288	NC_021167.1	Ca_Kabuli_Chr08	11528288	GG	AA	AA	INTERGENIC		
SNP_60247_A_11530316	NC_021167.1	Ca_Kabuli_Chr08	11530316	GG	TT	TT	URR	101509154	Unknown function
SNP_60250_A_11545479	NC_021167.1	Ca_Kabuli_Chr08	11545479	TT	AA	AA	INTRON	101491826	probable auxin efflux carrier component 1c
SNP_60251_A_11556163	NC_021167.1	Ca_Kabuli_Chr08	11556163	TT	CC	CC	INTERGENIC		
SNP_60252_A_11603810	NC_021167.1	Ca_Kabuli_Chr08	11603810	CC	TT	TT	INTERGENIC		
SNP_60253_A_11603897	NC_021167.1	Ca_Kabuli_Chr08	11603897	GG	TT	TT	INTERGENIC		
SNP_60254_A_11604106	NC_021167.1	Ca_Kabuli_Chr08	11604106	CC	TT	TT	INTERGENIC		
SNP_60255_A_11604167	NC_021167.1	Ca_Kabuli_Chr08	11604167	TT	AA	AA	INTERGENIC		
SNP_60256_A_11604857	NC_021167.1	Ca_Kabuli_Chr08	11604857	CC	TT	TT	INTERGENIC		
SNP_60257_A_11605010	NC_021167.1	Ca_Kabuli_Chr08	11605010	CC	TT	TT	INTERGENIC		
SNP_60258_A_11605190	NC_021167.1	Ca_Kabuli_Chr08	11605190	GG	CC	CC	INTERGENIC		
SNP_60259_A_11605201	NC_021167.1	Ca_Kabuli_Chr08	11605201	CC	TT	TT	INTERGENIC		
SNP_60260_A_11605213	NC_021167.1	Ca_Kabuli_Chr08	11605213	TT	AA	AA	INTERGENIC		
SNP_60261_A_11605246	NC_021167.1	Ca_Kabuli_Chr08	11605246	TT	GG	GG	INTERGENIC		

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SNP_60262_A_11605247	NC_021167.1	Ca_Kabuli_Chr08	11605247	AA	TT	TT	INTERGENIC		
SNP_60263_A_11605311	NC_021167.1	Ca_Kabuli_Chr08	11605311	GG	TT	TT	INTERGENIC		
SNP_60264_A_11605315	NC_021167.1	Ca_Kabuli_Chr08	11605315	AA	TT	TT	INTERGENIC		
SNP_60265_A_11605316	NC_021167.1	Ca_Kabuli_Chr08	11605316	GG	AA	AA	INTERGENIC		
SNP_60266_A_11645893	NC_021167.1	Ca_Kabuli_Chr08	11645893	CC	TT	TT	URR	101509479	uncharacterized LOC101509479
SNP_60267_A_11757482	NC_021167.1	Ca_Kabuli_Chr08	11757482	TT	CC	CC	INTERGENIC		
SNP_60268_A_11849300	NC_021167.1	Ca_Kabuli_Chr08	11849300	CC	TT	TT	INTERGENIC		
SNP_60270_A_11921626	NC_021167.1	Ca_Kabuli_Chr08	11921626	TT	AA	AA	INTERGENIC		
SNP_60271_A_11921692	NC_021167.1	Ca_Kabuli_Chr08	11921692	GG	AA	AA	INTERGENIC		
SNP_60274_A_11955482	NC_021167.1	Ca_Kabuli_Chr08	11955482	CC	TT	TT	INTERGENIC		
SNP_60276_A_11969024	NC_021167.1	Ca_Kabuli_Chr08	11969024	CC	AA	AA	INTERGENIC		
SNP_60277_A_11969487	NC_021167.1	Ca_Kabuli_Chr08	11969487	CC	AA	AA	INTERGENIC		
SNP_60278_A_11969493	NC_021167.1	Ca_Kabuli_Chr08	11969493	CC	TT	TT	INTERGENIC		
SNP_60279_A_11969525	NC_021167.1	Ca_Kabuli_Chr08	11969525	AA	GG	GG	INTERGENIC		
SNP_60280_A_11969547	NC_021167.1	Ca_Kabuli_Chr08	11969547	AA	TT	TT	INTERGENIC		
SNP_60281_A_11969563	NC_021167.1	Ca_Kabuli_Chr08	11969563	CC	AA	AA	INTERGENIC		
SNP_60283_A_11975784	NC_021167.1	Ca_Kabuli_Chr08	11975784	AA	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60284_A_11975895	NC_021167.1	Ca_Kabuli_Chr08	11975895	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60286_A_11976024	NC_021167.1	Ca_Kabuli_Chr08	11976024	GG	AA	AA	INTRON	101514426	TMV resistance protein N-like
SNP_60288_A_11976169	NC_021167.1	Ca_Kabuli_Chr08	11976169	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60290_A_11976199	NC_021167.1	Ca_Kabuli_Chr08	11976199	CC	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60291_A_11976324	NC_021167.1	Ca_Kabuli_Chr08	11976324	AA	TT	TT	INTRON	101514426	TMV resistance protein N-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60292_A_11976329	NC_021167.1	Ca_Kabuli_Chr08	11976329	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60293_A_11976543	NC_021167.1	Ca_Kabuli_Chr08	11976543	CC	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60294_A_11976580	NC_021167.1	Ca_Kabuli_Chr08	11976580	CC	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60295_A_11979726	NC_021167.1	Ca_Kabuli_Chr08	11979726	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60296_A_11979746	NC_021167.1	Ca_Kabuli_Chr08	11979746	TT	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60297_A_11979747	NC_021167.1	Ca_Kabuli_Chr08	11979747	GG	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60298_A_11979785	NC_021167.1	Ca_Kabuli_Chr08	11979785	GG	AA	AA	INTRON	101514426	TMV resistance protein N-like
SNP_60299_A_11979795	NC_021167.1	Ca_Kabuli_Chr08	11979795	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60300_A_11982960	NC_021167.1	Ca_Kabuli_Chr08	11982960	GG	TT	TT	INTRON	101514426	TMV resistance protein N-like
SNP_60301_A_11982965	NC_021167.1	Ca_Kabuli_Chr08	11982965	AA	GG	GG	INTRON	101514426	TMV resistance protein N-like
SNP_60302_A_11986056	NC_021167.1	Ca_Kabuli_Chr08	11986056	GG	AA	AA	DRR	101513016	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_60303_A_11992934	NC_021167.1	Ca_Kabuli_Chr08	11992934	TT	CC	CC	INTERGENIC		
SNP_60304_A_11992956	NC_021167.1	Ca_Kabuli_Chr08	11992956	GG	AA	AA	INTERGENIC		
SNP_60305_A_11993264	NC_021167.1	Ca_Kabuli_Chr08	11993264	GG	AA	AA	INTERGENIC		
SNP_60306_A_11993277	NC_021167.1	Ca_Kabuli_Chr08	11993277	TT	AA	AA	INTERGENIC		
SNP_60307_A_12011596	NC_021167.1	Ca_Kabuli_Chr08	12011596	GG	AA	AA	INTERGENIC		
SNP_60309_A_12016912	NC_021167.1	Ca_Kabuli_Chr08	12016912	AA	GG	GG	INTRON	101515401	ATP-dependent RNA helicase DED1-like
SNP_60310_A_12022569	NC_021167.1	Ca_Kabuli_Chr08	12022569	TT	CC	CC	INTRON	101515736	Unknown function
SNP_60311_A_12028757	NC_021167.1	Ca_Kabuli_Chr08	12028757	TT	AA	AA	URR	101488499	eukaryotic translation initiation factor 2A-like
SNP_60315_A_12048556	NC_021167.1	Ca_Kabuli_Chr08	12048556	CC	TT	TT	INTERGENIC		
SNP_60316_A_12048590	NC_021167.1	Ca_Kabuli_Chr08	12048590	AA	GG	GG	INTERGENIC		
SNP_60317_A_12048776	NC_021167.1	Ca_Kabuli_Chr08	12048776	CC	AA	AA	INTERGENIC		

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SNP_60318_A_12048782	NC_021167.1	Ca_Kabuli_Chr08	12048782	TT	CC	CC	INTERGENIC			
SNP_60319_A_12056286	NC_021167.1	Ca_Kabuli_Chr08	12056286	AA	GG	GG	INTERGENIC			
SNP_60320_A_12056308	NC_021167.1	Ca_Kabuli_Chr08	12056308	TT	CC	CC	INTERGENIC			
SNP_60321_A_12056463	NC_021167.1	Ca_Kabuli_Chr08	12056463	AA	GG	GG	INTERGENIC			
SNP_60322_A_12056567	NC_021167.1	Ca_Kabuli_Chr08	12056567	GG	TT	TT	INTERGENIC			
SNP_60323_A_12056696	NC_021167.1	Ca_Kabuli_Chr08	12056696	AA	TT	TT	INTERGENIC			
SNP_60324_A_12062307	NC_021167.1	Ca_Kabuli_Chr08	12062307	TT	CC	CC	INTERGENIC			
SNP_60325_A_12069606	NC_021167.1	Ca_Kabuli_Chr08	12069606	TT	CC	CC	INTERGENIC			
SNP_60328_A_12812417	NC_021167.1	Ca_Kabuli_Chr08	12812417	CC	AA	AA	INTERGENIC			
SNP_60329_A_12812420	NC_021167.1	Ca_Kabuli_Chr08	12812420	TT	AA	AA	INTERGENIC			
SNP_60330_A_12814099	NC_021167.1	Ca_Kabuli_Chr08	12814099	TT	CC	CC	INTERGENIC			
SNP_60331_A_12818192	NC_021167.1	Ca_Kabuli_Chr08	12818192	CC	TT	TT	INTERGENIC			
SNP_60332_A_12844214	NC_021167.1	Ca_Kabuli_Chr08	12844214	TT	CC	CC	INTERGENIC			
SNP_60333_A_12878103	NC_021167.1	Ca_Kabuli_Chr08	12878103	AA	CC	CC	INTERGENIC			
SNP_60334_A_12878107	NC_021167.1	Ca_Kabuli_Chr08	12878107	TT	GG	GG	INTERGENIC			
SNP_60335_A_12938661	NC_021167.1	Ca_Kabuli_Chr08	12938661	GG	AA	AA	INTRON	101491203	putative transporter arsB	
SNP_60336_A_12978851	NC_021167.1	Ca_Kabuli_Chr08	12978851	AA	GG	GG	INTERGENIC			
SNP_60337_A_12978931	NC_021167.1	Ca_Kabuli_Chr08	12978931	AA	GG	GG	INTERGENIC			
SNP_60338_A_12978958	NC_021167.1	Ca_Kabuli_Chr08	12978958	CC	AA	AA	INTERGENIC			
SNP_60341_A_12979086	NC_021167.1	Ca_Kabuli_Chr08	12979086	CC	GG	GG	INTERGENIC			
SNP_60342_A_12979106	NC_021167.1	Ca_Kabuli_Chr08	12979106	AA	TT	TT	INTERGENIC			
SNP_60343_A_12979119	NC_021167.1	Ca_Kabuli_Chr08	12979119	CC	AA	AA	INTERGENIC			

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SNP_60344_A_12979161	NC_021167.1	Ca_Kabuli_Chr08	12979161	CC	TT	TT	INTERGENIC			
SNP_60345_A_12979166	NC_021167.1	Ca_Kabuli_Chr08	12979166	AA	GG	GG	INTERGENIC			
SNP_60346_A_12979204	NC_021167.1	Ca_Kabuli_Chr08	12979204	TT	CC	CC	INTERGENIC			
SNP_60347_A_12979252	NC_021167.1	Ca_Kabuli_Chr08	12979252	AA	TT	TT	INTERGENIC			
SNP_60348_A_12979296	NC_021167.1	Ca_Kabuli_Chr08	12979296	TT	GG	GG	INTERGENIC			
SNP_60349_A_12979338	NC_021167.1	Ca_Kabuli_Chr08	12979338	AA	GG	GG	INTERGENIC			
SNP_60350_A_12979367	NC_021167.1	Ca_Kabuli_Chr08	12979367	TT	CC	CC	INTERGENIC			
SNP_60351_A_12979513	NC_021167.1	Ca_Kabuli_Chr08	12979513	AA	GG	GG	INTERGENIC			
SNP_60352_A_12979573	NC_021167.1	Ca_Kabuli_Chr08	12979573	CC	GG	GG	INTERGENIC			
SNP_60353_A_12979615	NC_021167.1	Ca_Kabuli_Chr08	12979615	TT	GG	GG	INTERGENIC			
SNP_60354_A_12979772	NC_021167.1	Ca_Kabuli_Chr08	12979772	TT	CC	CC	INTERGENIC			
SNP_60355_A_12979826	NC_021167.1	Ca_Kabuli_Chr08	12979826	TT	GG	GG	INTERGENIC			
SNP_60356_A_12979882	NC_021167.1	Ca_Kabuli_Chr08	12979882	TT	CC	CC	INTERGENIC			
SNP_60357_A_12979943	NC_021167.1	Ca_Kabuli_Chr08	12979943	CC	GG	GG	INTERGENIC			
SNP_60358_A_12980029	NC_021167.1	Ca_Kabuli_Chr08	12980029	AA	GG	GG	INTERGENIC			
SNP_60359_A_12980036	NC_021167.1	Ca_Kabuli_Chr08	12980036	AA	GG	GG	INTERGENIC			
SNP_60360_A_12980043	NC_021167.1	Ca_Kabuli_Chr08	12980043	AA	CC	CC	INTERGENIC			
SNP_60361_A_12980538	NC_021167.1	Ca_Kabuli_Chr08	12980538	CC	TT	TT	INTERGENIC			
SNP_60362_A_12980632	NC_021167.1	Ca_Kabuli_Chr08	12980632	GG	CC	CC	INTERGENIC			
SNP_60363_A_12980656	NC_021167.1	Ca_Kabuli_Chr08	12980656	TT	CC	CC	INTERGENIC			
SNP_60364_A_12980711	NC_021167.1	Ca_Kabuli_Chr08	12980711	CC	TT	TT	INTERGENIC			
SNP_60365_A_12980880	NC_021167.1	Ca_Kabuli_Chr08	12980880	AA	GG	GG	INTERGENIC			

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SNP_60366_A_12980927	NC_021167.1	Ca_Kabuli_Chr08	12980927	CC	TT	TT	INTERGENIC			
SNP_60368_A_12981045	NC_021167.1	Ca_Kabuli_Chr08	12981045	CC	TT	TT	INTERGENIC			
SNP_60369_A_12981062	NC_021167.1	Ca_Kabuli_Chr08	12981062	TT	AA	AA	INTERGENIC			
SNP_60370_A_12982481	NC_021167.1	Ca_Kabuli_Chr08	12982481	GG	AA	AA	INTERGENIC			
SNP_60371_A_12983429	NC_021167.1	Ca_Kabuli_Chr08	12983429	CC	TT	TT	INTERGENIC			
SNP_60372_A_12983450	NC_021167.1	Ca_Kabuli_Chr08	12983450	CC	TT	TT	INTERGENIC			
SNP_60374_A_12983529	NC_021167.1	Ca_Kabuli_Chr08	12983529	AA	GG	GG	INTERGENIC			
SNP_60375_A_12983626	NC_021167.1	Ca_Kabuli_Chr08	12983626	TT	CC	CC	INTERGENIC			
SNP_60376_A_12983705	NC_021167.1	Ca_Kabuli_Chr08	12983705	AA	GG	GG	INTERGENIC			
SNP_60377_A_12983740	NC_021167.1	Ca_Kabuli_Chr08	12983740	TT	AA	AA	INTERGENIC			
SNP_60378_A_12983762	NC_021167.1	Ca_Kabuli_Chr08	12983762	CC	TT	TT	INTERGENIC			
SNP_60379_A_12983803	NC_021167.1	Ca_Kabuli_Chr08	12983803	CC	TT	TT	INTERGENIC			
SNP_60380_A_12983854	NC_021167.1	Ca_Kabuli_Chr08	12983854	CC	AA	AA	INTERGENIC			
SNP_60381_A_12983884	NC_021167.1	Ca_Kabuli_Chr08	12983884	CC	TT	TT	INTERGENIC			
SNP_60383_A_12984004	NC_021167.1	Ca_Kabuli_Chr08	12984004	AA	GG	GG	INTERGENIC			
SNP_60384_A_12984030	NC_021167.1	Ca_Kabuli_Chr08	12984030	GG	AA	AA	INTERGENIC			
SNP_60385_A_12984031	NC_021167.1	Ca_Kabuli_Chr08	12984031	GG	AA	AA	INTERGENIC			
SNP_60386_A_12984089	NC_021167.1	Ca_Kabuli_Chr08	12984089	CC	AA	AA	INTERGENIC			
SNP_60387_A_12984090	NC_021167.1	Ca_Kabuli_Chr08	12984090	AA	CC	CC	INTERGENIC			
SNP_60389_A_12984113	NC_021167.1	Ca_Kabuli_Chr08	12984113	AA	TT	TT	INTERGENIC			
SNP_60390_A_12984150	NC_021167.1	Ca_Kabuli_Chr08	12984150	TT	CC	CC	INTERGENIC			
SNP_60391_A_12984201	NC_021167.1	Ca_Kabuli_Chr08	12984201	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60392_A_12984238	NC_021167.1	Ca_Kabuli_Chr08	12984238	AA	GG	GG	INTERGENIC			
SNP_60393_A_12984293	NC_021167.1	Ca_Kabuli_Chr08	12984293	AA	GG	GG	INTERGENIC			
SNP_60394_A_12984320	NC_021167.1	Ca_Kabuli_Chr08	12984320	TT	AA	AA	INTERGENIC			
SNP_60395_A_12984359	NC_021167.1	Ca_Kabuli_Chr08	12984359	AA	GG	GG	INTERGENIC			
SNP_60396_A_12984375	NC_021167.1	Ca_Kabuli_Chr08	12984375	TT	CC	CC	INTERGENIC			
SNP_60397_A_12984390	NC_021167.1	Ca_Kabuli_Chr08	12984390	TT	CC	CC	INTERGENIC			
SNP_60398_A_12984562	NC_021167.1	Ca_Kabuli_Chr08	12984562	CC	TT	TT	INTERGENIC			
SNP_60399_A_12984651	NC_021167.1	Ca_Kabuli_Chr08	12984651	AA	GG	GG	INTERGENIC			
SNP_60400_A_12984734	NC_021167.1	Ca_Kabuli_Chr08	12984734	AA	TT	TT	INTERGENIC			
SNP_60401_A_12984782	NC_021167.1	Ca_Kabuli_Chr08	12984782	TT	CC	CC	INTERGENIC			
SNP_60402_A_12984791	NC_021167.1	Ca_Kabuli_Chr08	12984791	CC	GG	GG	INTERGENIC			
SNP_60403_A_12984886	NC_021167.1	Ca_Kabuli_Chr08	12984886	CC	TT	TT	INTERGENIC			
SNP_60404_A_12984943	NC_021167.1	Ca_Kabuli_Chr08	12984943	GG	AA	AA	INTERGENIC			
SNP_60405_A_12984953	NC_021167.1	Ca_Kabuli_Chr08	12984953	CC	TT	TT	INTERGENIC			
SNP_60406_A_12984971	NC_021167.1	Ca_Kabuli_Chr08	12984971	AA	GG	GG	INTERGENIC			
SNP_60407_A_12984994	NC_021167.1	Ca_Kabuli_Chr08	12984994	GG	CC	CC	INTERGENIC			
SNP_60408_A_12985038	NC_021167.1	Ca_Kabuli_Chr08	12985038	AA	CC	CC	INTERGENIC			
SNP_60409_A_12985058	NC_021167.1	Ca_Kabuli_Chr08	12985058	TT	CC	CC	INTERGENIC			
SNP_60410_A_12985116	NC_021167.1	Ca_Kabuli_Chr08	12985116	AA	GG	GG	INTERGENIC			
SNP_60411_A_12985121	NC_021167.1	Ca_Kabuli_Chr08	12985121	TT	CC	CC	INTERGENIC			
SNP_60412_A_12985151	NC_021167.1	Ca_Kabuli_Chr08	12985151	AA	CC	CC	INTERGENIC			
SNP_60413_A_12985289	NC_021167.1	Ca_Kabuli_Chr08	12985289	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60414_A_12985340	NC_021167.1	Ca_Kabuli_Chr08	12985340	TT	AA	AA	INTERGENIC			
SNP_60415_A_12985350	NC_021167.1	Ca_Kabuli_Chr08	12985350	AA	GG	GG	INTERGENIC			
SNP_60416_A_12985586	NC_021167.1	Ca_Kabuli_Chr08	12985586	GG	AA	AA	INTERGENIC			
SNP_60417_A_12985601	NC_021167.1	Ca_Kabuli_Chr08	12985601	AA	GG	GG	INTERGENIC			
SNP_60418_A_12985618	NC_021167.1	Ca_Kabuli_Chr08	12985618	CC	TT	TT	INTERGENIC			
SNP_60419_A_12985762	NC_021167.1	Ca_Kabuli_Chr08	12985762	AA	GG	GG	INTERGENIC			
SNP_60420_A_12986964	NC_021167.1	Ca_Kabuli_Chr08	12986964	AA	CC	CC	INTERGENIC			
SNP_60421_A_12987030	NC_021167.1	Ca_Kabuli_Chr08	12987030	AA	CC	CC	INTERGENIC			
SNP_60422_A_12987145	NC_021167.1	Ca_Kabuli_Chr08	12987145	GG	AA	AA	INTERGENIC			
SNP_60423_A_12987186	NC_021167.1	Ca_Kabuli_Chr08	12987186	CC	TT	TT	INTERGENIC			
SNP_60424_A_12987197	NC_021167.1	Ca_Kabuli_Chr08	12987197	CC	TT	TT	INTERGENIC			
SNP_60425_A_12987250	NC_021167.1	Ca_Kabuli_Chr08	12987250	GG	TT	TT	INTERGENIC			
SNP_60426_A_12987314	NC_021167.1	Ca_Kabuli_Chr08	12987314	TT	GG	GG	INTERGENIC			
SNP_60427_A_12987355	NC_021167.1	Ca_Kabuli_Chr08	12987355	TT	CC	CC	INTERGENIC			
SNP_60428_A_12987382	NC_021167.1	Ca_Kabuli_Chr08	12987382	CC	TT	TT	INTERGENIC			
SNP_60429_A_12987420	NC_021167.1	Ca_Kabuli_Chr08	12987420	CC	TT	TT	INTERGENIC			
SNP_60430_A_12987435	NC_021167.1	Ca_Kabuli_Chr08	12987435	GG	AA	AA	INTERGENIC			
SNP_60431_A_12987580	NC_021167.1	Ca_Kabuli_Chr08	12987580	GG	CC	CC	INTERGENIC			
SNP_60432_A_12987587	NC_021167.1	Ca_Kabuli_Chr08	12987587	GG	AA	AA	INTERGENIC			
SNP_60433_A_12987628	NC_021167.1	Ca_Kabuli_Chr08	12987628	TT	AA	AA	INTERGENIC			
SNP_60434_A_12987713	NC_021167.1	Ca_Kabuli_Chr08	12987713	GG	AA	AA	INTERGENIC			
SNP_60435_A_12987737	NC_021167.1	Ca_Kabuli_Chr08	12987737	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60436_A_12987754	NC_021167.1	Ca_Kabuli_Chr08	12987754	AA	GG	GG	INTERGENIC			
SNP_60437_A_12987760	NC_021167.1	Ca_Kabuli_Chr08	12987760	CC	TT	TT	INTERGENIC			
SNP_60438_A_12987768	NC_021167.1	Ca_Kabuli_Chr08	12987768	GG	TT	TT	INTERGENIC			
SNP_60439_A_12987779	NC_021167.1	Ca_Kabuli_Chr08	12987779	AA	GG	GG	INTERGENIC			
SNP_60440_A_12987902	NC_021167.1	Ca_Kabuli_Chr08	12987902	CC	TT	TT	INTERGENIC			
SNP_60441_A_12987950	NC_021167.1	Ca_Kabuli_Chr08	12987950	TT	CC	CC	INTERGENIC			
SNP_60442_A_12987954	NC_021167.1	Ca_Kabuli_Chr08	12987954	TT	AA	AA	INTERGENIC			
SNP_60443_A_12988004	NC_021167.1	Ca_Kabuli_Chr08	12988004	TT	GG	GG	INTERGENIC			
SNP_60444_A_12988071	NC_021167.1	Ca_Kabuli_Chr08	12988071	GG	TT	TT	INTERGENIC			
SNP_60445_A_12988095	NC_021167.1	Ca_Kabuli_Chr08	12988095	AA	GG	GG	INTERGENIC			
SNP_60446_A_12988115	NC_021167.1	Ca_Kabuli_Chr08	12988115	AA	GG	GG	INTERGENIC			
SNP_60447_A_12988135	NC_021167.1	Ca_Kabuli_Chr08	12988135	TT	GG	GG	INTERGENIC			
SNP_60448_A_12988200	NC_021167.1	Ca_Kabuli_Chr08	12988200	CC	TT	TT	INTERGENIC			
SNP_60449_A_12988271	NC_021167.1	Ca_Kabuli_Chr08	12988271	AA	TT	TT	INTERGENIC			
SNP_60450_A_12988422	NC_021167.1	Ca_Kabuli_Chr08	12988422	TT	CC	CC	INTERGENIC			
SNP_60451_A_12988499	NC_021167.1	Ca_Kabuli_Chr08	12988499	TT	GG	GG	INTERGENIC			
SNP_60452_A_12988543	NC_021167.1	Ca_Kabuli_Chr08	12988543	AA	TT	TT	INTERGENIC			
SNP_60453_A_12988665	NC_021167.1	Ca_Kabuli_Chr08	12988665	CC	TT	TT	INTERGENIC			
SNP_60454_A_12988824	NC_021167.1	Ca_Kabuli_Chr08	12988824	CC	AA	AA	INTERGENIC			
SNP_60455_A_12988844	NC_021167.1	Ca_Kabuli_Chr08	12988844	GG	AA	AA	INTERGENIC			
SNP_60456_A_12988960	NC_021167.1	Ca_Kabuli_Chr08	12988960	AA	CC	CC	INTERGENIC			
SNP_60457_A_12988987	NC_021167.1	Ca_Kabuli_Chr08	12988987	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60458_A_12989033	NC_021167.1	Ca_Kabuli_Chr08	12989033	CC	TT	TT	INTERGENIC		
SNP_60459_A_12989035	NC_021167.1	Ca_Kabuli_Chr08	12989035	AA	GG	GG	INTERGENIC		
SNP_60460_A_12989064	NC_021167.1	Ca_Kabuli_Chr08	12989064	CC	GG	GG	DRR	101491943	CEN-like protein 4
SNP_60461_A_12989102	NC_021167.1	Ca_Kabuli_Chr08	12989102	AA	GG	GG	DRR	101491943	CEN-like protein 4
SNP_60462_A_12989143	NC_021167.1	Ca_Kabuli_Chr08	12989143	CC	TT	TT	DRR	101491943	CEN-like protein 4
SNP_60463_A_12989172	NC_021167.1	Ca_Kabuli_Chr08	12989172	AA	GG	GG	DRR	101491943	CEN-like protein 4
SNP_60464_A_12989221	NC_021167.1	Ca_Kabuli_Chr08	12989221	TT	AA	AA	DRR	101491943	CEN-like protein 4
SNP_60465_A_12989252	NC_021167.1	Ca_Kabuli_Chr08	12989252	TT	AA	AA	DRR	101491943	CEN-like protein 4
SNP_60466_A_12989285	NC_021167.1	Ca_Kabuli_Chr08	12989285	GG	AA	AA	DRR	101491943	CEN-like protein 4
SNP_60467_A_12989403	NC_021167.1	Ca_Kabuli_Chr08	12989403	TT	CC	CC	DRR	101491943	CEN-like protein 4
SNP_60468_A_12989412	NC_021167.1	Ca_Kabuli_Chr08	12989412	AA	GG	GG	DRR	101491943	CEN-like protein 4
SNP_60469_A_12989811	NC_021167.1	Ca_Kabuli_Chr08	12989811	GG	AA	AA	DRR	101491943	CEN-like protein 4
SNP_60470_A_12989855	NC_021167.1	Ca_Kabuli_Chr08	12989855	AA	GG	GG	DRR	101491943	CEN-like protein 4
SNP_60472_A_12990058	NC_021167.1	Ca_Kabuli_Chr08	12990058	CC	GG	GG	INTERGENIC		
SNP_60473_A_12996678	NC_021167.1	Ca_Kabuli_Chr08	12996678	CC	TT	TT	URR	101492277	CEN-like protein 2
SNP_60474_A_12998696	NC_021167.1	Ca_Kabuli_Chr08	12998696	TT	AA	AA	INTERGENIC		
SNP_60475_A_12998764	NC_021167.1	Ca_Kabuli_Chr08	12998764	AA	CC	CC	INTERGENIC		
SNP_60476_A_12998942	NC_021167.1	Ca_Kabuli_Chr08	12998942	CC	TT	TT	INTERGENIC		
SNP_60477_A_12998952	NC_021167.1	Ca_Kabuli_Chr08	12998952	TT	CC	CC	INTERGENIC		
SNP_60478_A_12998960	NC_021167.1	Ca_Kabuli_Chr08	12998960	TT	CC	CC	INTERGENIC		
SNP_60479_A_12999101	NC_021167.1	Ca_Kabuli_Chr08	12999101	AA	GG	GG	INTERGENIC		
SNP_60480_A_12999115	NC_021167.1	Ca_Kabuli_Chr08	12999115	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60481_A_12999144	NC_021167.1	Ca_Kabuli_Chr08	12999144	GG	TT	TT	INTERGENIC			
SNP_60482_A_13009242	NC_021167.1	Ca_Kabuli_Chr08	13009242	CC	GG	GG	INTERGENIC			
SNP_60483_A_13009553	NC_021167.1	Ca_Kabuli_Chr08	13009553	TT	CC	CC	INTERGENIC			
SNP_60484_A_13009603	NC_021167.1	Ca_Kabuli_Chr08	13009603	GG	AA	AA	INTERGENIC			
SNP_60485_A_13009619	NC_021167.1	Ca_Kabuli_Chr08	13009619	GG	AA	AA	INTERGENIC			
SNP_60486_A_13009638	NC_021167.1	Ca_Kabuli_Chr08	13009638	TT	CC	CC	INTERGENIC			
SNP_60487_A_13010816	NC_021167.1	Ca_Kabuli_Chr08	13010816	GG	AA	AA	INTERGENIC			
SNP_60488_A_13012674	NC_021167.1	Ca_Kabuli_Chr08	13012674	TT	AA	AA	INTERGENIC			
SNP_60489_A_13039829	NC_021167.1	Ca_Kabuli_Chr08	13039829	CC	TT	TT	INTERGENIC			
SNP_60490_A_13082128	NC_021167.1	Ca_Kabuli_Chr08	13082128	TT	GG	GG	INTERGENIC			
SNP_60491_A_13083324	NC_021167.1	Ca_Kabuli_Chr08	13083324	GG	AA	AA	INTERGENIC			
SNP_60492_A_13101385	NC_021167.1	Ca_Kabuli_Chr08	13101385	AA	CC	CC	INTERGENIC			
SNP_60493_A_13101413	NC_021167.1	Ca_Kabuli_Chr08	13101413	AA	GG	GG	INTERGENIC			
SNP_60494_A_13103673	NC_021167.1	Ca_Kabuli_Chr08	13103673	CC	TT	TT	INTERGENIC			
SNP_60495_A_13103688	NC_021167.1	Ca_Kabuli_Chr08	13103688	CC	TT	TT	INTERGENIC			
SNP_60496_A_13103691	NC_021167.1	Ca_Kabuli_Chr08	13103691	GG	AA	AA	INTERGENIC			
SNP_60497_A_13103694	NC_021167.1	Ca_Kabuli_Chr08	13103694	GG	AA	AA	INTERGENIC			
SNP_60498_A_13103700	NC_021167.1	Ca_Kabuli_Chr08	13103700	AA	GG	GG	INTERGENIC			
SNP_60499_A_13103709	NC_021167.1	Ca_Kabuli_Chr08	13103709	TT	CC	CC	INTERGENIC			
SNP_60500_A_13186775	NC_021167.1	Ca_Kabuli_Chr08	13186775	CC	GG	GG	INTERGENIC			
SNP_60501_A_13227949	NC_021167.1	Ca_Kabuli_Chr08	13227949	CC	TT	TT	URR	101495408	BAHD acyltransferase DCR	
SNP_60502_A_13296982	NC_021167.1	Ca_Kabuli_Chr08	13296982	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60503_A_13297006	NC_021167.1	Ca_Kabuli_Chr08	13297006	AA	CC	CC	INTERGENIC			
SNP_60504_A_13297017	NC_021167.1	Ca_Kabuli_Chr08	13297017	TT	CC	CC	INTERGENIC			
SNP_60505_A_13297354	NC_021167.1	Ca_Kabuli_Chr08	13297354	GG	CC	CC	INTERGENIC			
SNP_60506_A_13297361	NC_021167.1	Ca_Kabuli_Chr08	13297361	TT	CC	CC	INTERGENIC			
SNP_60507_A_13297394	NC_021167.1	Ca_Kabuli_Chr08	13297394	CC	GG	GG	INTERGENIC			
SNP_60508_A_13297916	NC_021167.1	Ca_Kabuli_Chr08	13297916	TT	GG	GG	INTERGENIC			
SNP_60510_A_13298036	NC_021167.1	Ca_Kabuli_Chr08	13298036	TT	CC	CC	INTERGENIC			
SNP_60511_A_13298057	NC_021167.1	Ca_Kabuli_Chr08	13298057	GG	AA	AA	INTERGENIC			
SNP_60512_A_13298116	NC_021167.1	Ca_Kabuli_Chr08	13298116	TT	CC	CC	INTERGENIC			
SNP_60513_A_13298200	NC_021167.1	Ca_Kabuli_Chr08	13298200	AA	TT	TT	INTERGENIC			
SNP_60514_A_13308373	NC_021167.1	Ca_Kabuli_Chr08	13308373	AA	GG	GG	INTERGENIC			
SNP_60515_A_13308756	NC_021167.1	Ca_Kabuli_Chr08	13308756	TT	GG	GG	INTERGENIC			
SNP_60516_A_13310160	NC_021167.1	Ca_Kabuli_Chr08	13310160	TT	AA	AA	INTERGENIC			
SNP_60517_A_13311065	NC_021167.1	Ca_Kabuli_Chr08	13311065	AA	CC	CC	INTERGENIC			
SNP_60518_A_13311103	NC_021167.1	Ca_Kabuli_Chr08	13311103	CC	TT	TT	INTERGENIC			
SNP_60519_A_13312481	NC_021167.1	Ca_Kabuli_Chr08	13312481	AA	CC	CC	INTERGENIC			
SNP_60520_A_13312912	NC_021167.1	Ca_Kabuli_Chr08	13312912	AA	CC	CC	INTERGENIC			
SNP_60521_A_13329419	NC_021167.1	Ca_Kabuli_Chr08	13329419	CC	TT	TT	INTERGENIC			
SNP_60522_A_13329457	NC_021167.1	Ca_Kabuli_Chr08	13329457	CC	TT	TT	INTERGENIC			
SNP_60523_A_13330504	NC_021167.1	Ca_Kabuli_Chr08	13330504	GG	AA	AA	INTERGENIC			
SNP_60524_A_13330533	NC_021167.1	Ca_Kabuli_Chr08	13330533	CC	TT	TT	INTERGENIC			
SNP_60526_A_13369128	NC_021167.1	Ca_Kabuli_Chr08	13369128	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60527_A_13369166	NC_021167.1	Ca_Kabuli_Chr08	13369166	GG	CC	CC	INTERGENIC			
SNP_60528_A_13369258	NC_021167.1	Ca_Kabuli_Chr08	13369258	AA	GG	GG	INTERGENIC			
SNP_60529_A_13369297	NC_021167.1	Ca_Kabuli_Chr08	13369297	AA	TT	TT	INTERGENIC			
SNP_60530_A_13369390	NC_021167.1	Ca_Kabuli_Chr08	13369390	AA	GG	GG	INTERGENIC			
SNP_60531_A_13369447	NC_021167.1	Ca_Kabuli_Chr08	13369447	AA	GG	GG	INTERGENIC			
SNP_60533_A_13369858	NC_021167.1	Ca_Kabuli_Chr08	13369858	GG	AA	AA	INTERGENIC			
SNP_60534_A_13369871	NC_021167.1	Ca_Kabuli_Chr08	13369871	AA	GG	GG	INTERGENIC			
SNP_60535_A_13392416	NC_021167.1	Ca_Kabuli_Chr08	13392416	GG	AA	AA	INTERGENIC			
SNP_60536_A_13401466	NC_021167.1	Ca_Kabuli_Chr08	13401466	GG	CC	CC	INTERGENIC			
SNP_60537_A_13436545	NC_021167.1	Ca_Kabuli_Chr08	13436545	CC	TT	TT	INTERGENIC			
SNP_60538_A_13460332	NC_021167.1	Ca_Kabuli_Chr08	13460332	GG	CC	CC	INTERGENIC			
SNP_60539_A_13475509	NC_021167.1	Ca_Kabuli_Chr08	13475509	GG	AA	AA	INTERGENIC			
SNP_60540_A_13475510	NC_021167.1	Ca_Kabuli_Chr08	13475510	TT	CC	CC	INTERGENIC			
SNP_60541_A_13475513	NC_021167.1	Ca_Kabuli_Chr08	13475513	TT	AA	AA	INTERGENIC			
SNP_60542_A_13475571	NC_021167.1	Ca_Kabuli_Chr08	13475571	AA	GG	GG	INTERGENIC			
SNP_60544_A_13477878	NC_021167.1	Ca_Kabuli_Chr08	13477878	CC	TT	TT	INTERGENIC			
SNP_60545_A_13702171	NC_021167.1	Ca_Kabuli_Chr08	13702171	TT	CC	CC	INTERGENIC			
SNP_60546_A_13702175	NC_021167.1	Ca_Kabuli_Chr08	13702175	CC	TT	TT	INTERGENIC			
SNP_60547_A_13702190	NC_021167.1	Ca_Kabuli_Chr08	13702190	AA	TT	TT	INTERGENIC			
SNP_60548_A_13702252	NC_021167.1	Ca_Kabuli_Chr08	13702252	TT	CC	CC	INTERGENIC			
SNP_60549_A_13702272	NC_021167.1	Ca_Kabuli_Chr08	13702272	CC	AA	AA	INTERGENIC			
SNP_60550_A_13702509	NC_021167.1	Ca_Kabuli_Chr08	13702509	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60551_A_13714445	NC_021167.1	Ca_Kabuli_Chr08	13714445	AA	CC	CC	INTERGENIC		
SNP_60552_A_13719955	NC_021167.1	Ca_Kabuli_Chr08	13719955	GG	AA	AA	INTERGENIC		
SNP_60553_A_13723896	NC_021167.1	Ca_Kabuli_Chr08	13723896	AA	GG	GG	URR	101502939	uncharacterized LOC101502939
SNP_60554_A_13727123	NC_021167.1	Ca_Kabuli_Chr08	13727123	TT	GG	GG	INTERGENIC		
SNP_60555_A_13727711	NC_021167.1	Ca_Kabuli_Chr08	13727711	CC	TT	TT	INTERGENIC		
SNP_60556_A_13727713	NC_021167.1	Ca_Kabuli_Chr08	13727713	AA	GG	GG	INTERGENIC		
SNP_60557_A_13727719	NC_021167.1	Ca_Kabuli_Chr08	13727719	TT	CC	CC	INTERGENIC		
SNP_60558_A_13727751	NC_021167.1	Ca_Kabuli_Chr08	13727751	TT	CC	CC	INTERGENIC		
SNP_60559_A_13727782	NC_021167.1	Ca_Kabuli_Chr08	13727782	AA	GG	GG	INTERGENIC		
SNP_60560_A_13727788	NC_021167.1	Ca_Kabuli_Chr08	13727788	AA	GG	GG	INTERGENIC		
SNP_60561_A_13728017	NC_021167.1	Ca_Kabuli_Chr08	13728017	AA	GG	GG	INTERGENIC		
SNP_60562_A_13728022	NC_021167.1	Ca_Kabuli_Chr08	13728022	AA	GG	GG	INTERGENIC		
SNP_60563_A_13728174	NC_021167.1	Ca_Kabuli_Chr08	13728174	AA	GG	GG	INTERGENIC		
SNP_60564_A_13728204	NC_021167.1	Ca_Kabuli_Chr08	13728204	CC	TT	TT	INTERGENIC		
SNP_60565_A_13728276	NC_021167.1	Ca_Kabuli_Chr08	13728276	CC	TT	TT	INTERGENIC		
SNP_60566_A_13728285	NC_021167.1	Ca_Kabuli_Chr08	13728285	TT	CC	CC	INTERGENIC		
SNP_60567_A_13728330	NC_021167.1	Ca_Kabuli_Chr08	13728330	TT	GG	GG	INTERGENIC		
SNP_60568_A_13728348	NC_021167.1	Ca_Kabuli_Chr08	13728348	CC	TT	TT	INTERGENIC		
SNP_60569_A_13728351	NC_021167.1	Ca_Kabuli_Chr08	13728351	AA	GG	GG	INTERGENIC		
SNP_60570_A_13743246	NC_021167.1	Ca_Kabuli_Chr08	13743246	CC	AA	AA	INTERGENIC		
SNP_60571_A_13749894	NC_021167.1	Ca_Kabuli_Chr08	13749894	GG	AA	AA	INTERGENIC		
SNP_60572_A_13750262	NC_021167.1	Ca_Kabuli_Chr08	13750262	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60573_A_13750280	NC_021167.1	Ca_Kabuli_Chr08	13750280	TT	CC	CC	INTERGENIC		
SNP_60574_A_13750328	NC_021167.1	Ca_Kabuli_Chr08	13750328	CC	TT	TT	INTERGENIC		
SNP_60575_A_13750404	NC_021167.1	Ca_Kabuli_Chr08	13750404	AA	GG	GG	INTERGENIC		
SNP_60576_A_13753623	NC_021167.1	Ca_Kabuli_Chr08	13753623	CC	TT	TT	INTERGENIC		
SNP_60577_A_13758248	NC_021167.1	Ca_Kabuli_Chr08	13758248	AA	GG	GG	NON_SYNONYMOUS_CODING	101503590	uncharacterized LOC101503590
SNP_60578_A_13758316	NC_021167.1	Ca_Kabuli_Chr08	13758316	GG	AA	AA	SYNONYMOUS_CODING	101503590	uncharacterized LOC101503590
SNP_60579_A_13758574	NC_021167.1	Ca_Kabuli_Chr08	13758574	TT	CC	CC	SYNONYMOUS_CODING	101503590	uncharacterized LOC101503590
SNP_60580_A_13758737	NC_021167.1	Ca_Kabuli_Chr08	13758737	TT	CC	CC	NON_SYNONYMOUS_CODING	101503590	uncharacterized LOC101503590
SNP_60581_A_13766603	NC_021167.1	Ca_Kabuli_Chr08	13766603	GG	AA	AA	INTERGENIC		
SNP_60582_A_13776435	NC_021167.1	Ca_Kabuli_Chr08	13776435	GG	TT	TT	INTERGENIC		
SNP_60585_A_13776497	NC_021167.1	Ca_Kabuli_Chr08	13776497	CC	TT	TT	INTERGENIC		
SNP_60586_A_13776506	NC_021167.1	Ca_Kabuli_Chr08	13776506	TT	CC	CC	INTERGENIC		
SNP_60587_A_13776602	NC_021167.1	Ca_Kabuli_Chr08	13776602	TT	CC	CC	INTERGENIC		
SNP_60588_A_13778413	NC_021167.1	Ca_Kabuli_Chr08	13778413	TT	GG	GG	INTERGENIC		
SNP_60589_A_13778822	NC_021167.1	Ca_Kabuli_Chr08	13778822	AA	GG	GG	INTERGENIC		
SNP_60590_A_13778862	NC_021167.1	Ca_Kabuli_Chr08	13778862	TT	AA	AA	INTERGENIC		
SNP_60591_A_13779189	NC_021167.1	Ca_Kabuli_Chr08	13779189	TT	CC	CC	INTERGENIC		
SNP_60592_A_13799753	NC_021167.1	Ca_Kabuli_Chr08	13799753	GG	AA	AA	INTERGENIC		
SNP_60593_A_13799873	NC_021167.1	Ca_Kabuli_Chr08	13799873	AA	CC	CC	INTERGENIC		
SNP_60594_A_13799882	NC_021167.1	Ca_Kabuli_Chr08	13799882	TT	CC	CC	INTERGENIC		
SNP_60595_A_13799894	NC_021167.1	Ca_Kabuli_Chr08	13799894	TT	CC	CC	INTERGENIC		
SNP_60596_A_13799921	NC_021167.1	Ca_Kabuli_Chr08	13799921	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60597_A_13800049	NC_021167.1	Ca_Kabuli_Chr08	13800049	CC	TT	TT	INTERGENIC			
SNP_60598_A_13800059	NC_021167.1	Ca_Kabuli_Chr08	13800059	CC	TT	TT	INTERGENIC			
SNP_60599_A_13800095	NC_021167.1	Ca_Kabuli_Chr08	13800095	AA	GG	GG	INTERGENIC			
SNP_60600_A_13802133	NC_021167.1	Ca_Kabuli_Chr08	13802133	TT	AA	AA	INTERGENIC			
SNP_60601_A_13802510	NC_021167.1	Ca_Kabuli_Chr08	13802510	TT	AA	AA	INTERGENIC			
SNP_60602_A_13802521	NC_021167.1	Ca_Kabuli_Chr08	13802521	AA	GG	GG	INTERGENIC			
SNP_60603_A_13813386	NC_021167.1	Ca_Kabuli_Chr08	13813386	GG	AA	AA	INTERGENIC			
SNP_60604_A_13813683	NC_021167.1	Ca_Kabuli_Chr08	13813683	TT	AA	AA	INTERGENIC			
SNP_60605_A_13813715	NC_021167.1	Ca_Kabuli_Chr08	13813715	CC	TT	TT	INTERGENIC			
SNP_60606_A_13813849	NC_021167.1	Ca_Kabuli_Chr08	13813849	AA	TT	TT	INTERGENIC			
SNP_60607_A_13813887	NC_021167.1	Ca_Kabuli_Chr08	13813887	AA	GG	GG	INTERGENIC			
SNP_60608_A_13813888	NC_021167.1	Ca_Kabuli_Chr08	13813888	GG	AA	AA	INTERGENIC			
SNP_60609_A_13813908	NC_021167.1	Ca_Kabuli_Chr08	13813908	CC	TT	TT	INTERGENIC			
SNP_60610_A_13814376	NC_021167.1	Ca_Kabuli_Chr08	13814376	CC	GG	GG	INTERGENIC			
SNP_60611_A_13814878	NC_021167.1	Ca_Kabuli_Chr08	13814878	CC	TT	TT	INTERGENIC			
SNP_60612_A_13815128	NC_021167.1	Ca_Kabuli_Chr08	13815128	AA	GG	GG	INTERGENIC			
SNP_60613_A_13815137	NC_021167.1	Ca_Kabuli_Chr08	13815137	CC	TT	TT	INTERGENIC			
SNP_60614_A_13815150	NC_021167.1	Ca_Kabuli_Chr08	13815150	CC	GG	GG	INTERGENIC			
SNP_60615_A_13815171	NC_021167.1	Ca_Kabuli_Chr08	13815171	AA	TT	TT	INTERGENIC			
SNP_60616_A_13815198	NC_021167.1	Ca_Kabuli_Chr08	13815198	GG	AA	AA	INTERGENIC			
SNP_60617_A_13815204	NC_021167.1	Ca_Kabuli_Chr08	13815204	CC	GG	GG	INTERGENIC			
SNP_60618_A_13815406	NC_021167.1	Ca_Kabuli_Chr08	13815406	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60619_A_13815453	NC_021167.1	Ca_Kabuli_Chr08	13815453	TT	GG	GG	INTERGENIC		
SNP_60620_A_13815469	NC_021167.1	Ca_Kabuli_Chr08	13815469	TT	CC	CC	INTERGENIC		
SNP_60621_A_13815479	NC_021167.1	Ca_Kabuli_Chr08	13815479	AA	CC	CC	INTERGENIC		
SNP_60622_A_13815524	NC_021167.1	Ca_Kabuli_Chr08	13815524	TT	AA	AA	INTERGENIC		
SNP_60623_A_13815530	NC_021167.1	Ca_Kabuli_Chr08	13815530	GG	AA	AA	INTERGENIC		
SNP_60624_A_13815533	NC_021167.1	Ca_Kabuli_Chr08	13815533	TT	AA	AA	INTERGENIC		
SNP_60625_A_13815590	NC_021167.1	Ca_Kabuli_Chr08	13815590	AA	GG	GG	INTERGENIC		
SNP_60626_A_13821623	NC_021167.1	Ca_Kabuli_Chr08	13821623	CC	TT	TT	INTERGENIC		
SNP_60627_A_13821638	NC_021167.1	Ca_Kabuli_Chr08	13821638	TT	CC	CC	INTERGENIC		
SNP_60628_A_13821871	NC_021167.1	Ca_Kabuli_Chr08	13821871	CC	TT	TT	INTERGENIC		
SNP_60629_A_13821906	NC_021167.1	Ca_Kabuli_Chr08	13821906	AA	TT	TT	INTERGENIC		
SNP_60630_A_13832756	NC_021167.1	Ca_Kabuli_Chr08	13832756	GG	CC	CC	URR	101503914	probable ADP-ribosylation factor GTPase-activating protein AGD14
SNP_60631_A_13833784	NC_021167.1	Ca_Kabuli_Chr08	13833784	GG	AA	AA	INTERGENIC		
SNP_60632_A_13833812	NC_021167.1	Ca_Kabuli_Chr08	13833812	GG	TT	TT	INTERGENIC		
SNP_60633_A_13834096	NC_021167.1	Ca_Kabuli_Chr08	13834096	AA	CC	CC	INTERGENIC		
SNP_60634_A_13834218	NC_021167.1	Ca_Kabuli_Chr08	13834218	CC	AA	AA	INTERGENIC		
SNP_60635_A_13848601	NC_021167.1	Ca_Kabuli_Chr08	13848601	AA	TT	TT	INTERGENIC		
SNP_60636_A_13874838	NC_021167.1	Ca_Kabuli_Chr08	13874838	GG	AA	AA	DRR	101510335	uncharacterized LOC101510335
SNP_60637_A_13887498	NC_021167.1	Ca_Kabuli_Chr08	13887498	GG	AA	AA	URR	101505741	uncharacterized LOC101505741
SNP_60638_A_13921376	NC_021167.1	Ca_Kabuli_Chr08	13921376	AA	CC	CC	INTERGENIC		
SNP_60639_A_13921380	NC_021167.1	Ca_Kabuli_Chr08	13921380	AA	GG	GG	INTERGENIC		
SNP_60640_A_13929772	NC_021167.1	Ca_Kabuli_Chr08	13929772	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60642_A_13993491	NC_021167.1	Ca_Kabuli_Chr08	13993491	TT	CC	CC	URR	101507997	protein CASP
SNP_60643_A_13993529	NC_021167.1	Ca_Kabuli_Chr08	13993529	GG	AA	AA	URR	101507997	protein CASP
SNP_60644_A_13993554	NC_021167.1	Ca_Kabuli_Chr08	13993554	TT	CC	CC	URR	101507997	protein CASP
SNP_60645_A_13993565	NC_021167.1	Ca_Kabuli_Chr08	13993565	AA	GG	GG	URR	101507997	protein CASP
SNP_60646_A_13993667	NC_021167.1	Ca_Kabuli_Chr08	13993667	CC	TT	TT	URR	101507997	protein CASP
SNP_60647_A_13993680	NC_021167.1	Ca_Kabuli_Chr08	13993680	AA	TT	TT	URR	101507997	protein CASP
SNP_60648_A_13993696	NC_021167.1	Ca_Kabuli_Chr08	13993696	CC	TT	TT	URR	101507997	protein CASP
SNP_60649_A_13993703	NC_021167.1	Ca_Kabuli_Chr08	13993703	GG	AA	AA	URR	101507997	protein CASP
SNP_60650_A_13993725	NC_021167.1	Ca_Kabuli_Chr08	13993725	GG	CC	CC	URR	101507997	protein CASP
SNP_60651_A_13993768	NC_021167.1	Ca_Kabuli_Chr08	13993768	CC	TT	TT	URR	101507997	protein CASP
SNP_60653_A_13993976	NC_021167.1	Ca_Kabuli_Chr08	13993976	TT	CC	CC	URR	101507997	protein CASP
SNP_60654_A_13993985	NC_021167.1	Ca_Kabuli_Chr08	13993985	TT	CC	CC	URR	101507997	protein CASP
SNP_60655_A_13993995	NC_021167.1	Ca_Kabuli_Chr08	13993995	AA	TT	TT	URR	101507997	protein CASP
SNP_60656_A_14035127	NC_021167.1	Ca_Kabuli_Chr08	14035127	TT	AA	AA	INTRON	101511298	uncharacterized LOC101511298
SNP_60657_A_14035454	NC_021167.1	Ca_Kabuli_Chr08	14035454	TT	CC	CC	INTRON	101511298	uncharacterized LOC101511298
SNP_60658_A_14035568	NC_021167.1	Ca_Kabuli_Chr08	14035568	AA	GG	GG	INTRON	101511298	uncharacterized LOC101511298
SNP_60659_A_14035662	NC_021167.1	Ca_Kabuli_Chr08	14035662	CC	GG	GG	INTRON	101511298	uncharacterized LOC101511298
SNP_60660_A_14035779	NC_021167.1	Ca_Kabuli_Chr08	14035779	CC	TT	TT	INTRON	101511298	uncharacterized LOC101511298
SNP_60661_A_14035971	NC_021167.1	Ca_Kabuli_Chr08	14035971	AA	CC	CC	INTRON	101511298	uncharacterized LOC101511298
SNP_60662_A_14036135	NC_021167.1	Ca_Kabuli_Chr08	14036135	TT	CC	CC	INTRON	101511298	uncharacterized LOC101511298
SNP_60664_A_14063775	NC_021167.1	Ca_Kabuli_Chr08	14063775	CC	TT	TT	INTRON	101511618	uncharacterized LOC101511618
SNP_60665_A_14063813	NC_021167.1	Ca_Kabuli_Chr08	14063813	AA	GG	GG	INTRON	101511618	uncharacterized LOC101511618

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60666_A_14063891	NC_021167.1	Ca_Kabuli_Chr08	14063891	AA	CC	CC	INTRON	101511618	uncharacterized LOC101511618
SNP_60667_A_14063960	NC_021167.1	Ca_Kabuli_Chr08	14063960	GG	CC	CC	INTRON	101511618	uncharacterized LOC101511618
SNP_60668_A_14063984	NC_021167.1	Ca_Kabuli_Chr08	14063984	CC	TT	TT	INTRON	101511618	uncharacterized LOC101511618
SNP_60670_A_14064150	NC_021167.1	Ca_Kabuli_Chr08	14064150	GG	CC	CC	INTRON	101511618	uncharacterized LOC101511618
SNP_60672_A_14064256	NC_021167.1	Ca_Kabuli_Chr08	14064256	GG	AA	AA	URR	101511618	uncharacterized LOC101511618
SNP_60673_A_14064277	NC_021167.1	Ca_Kabuli_Chr08	14064277	GG	AA	AA	URR	101511618	uncharacterized LOC101511618
SNP_60674_A_14064292	NC_021167.1	Ca_Kabuli_Chr08	14064292	AA	GG	GG	URR	101511618	uncharacterized LOC101511618
SNP_60675_A_14064298	NC_021167.1	Ca_Kabuli_Chr08	14064298	CC	GG	GG	URR	101511618	uncharacterized LOC101511618
SNP_60676_A_14064302	NC_021167.1	Ca_Kabuli_Chr08	14064302	TT	AA	AA	URR	101511618	uncharacterized LOC101511618
SNP_60677_A_14064325	NC_021167.1	Ca_Kabuli_Chr08	14064325	TT	AA	AA	START_LOST	101511618	uncharacterized LOC101511618
SNP_60678_A_14064362	NC_021167.1	Ca_Kabuli_Chr08	14064362	CC	AA	AA	SYNONYMOUS_CODING	101511618	uncharacterized LOC101511618
SNP_60679_A_14066725	NC_021167.1	Ca_Kabuli_Chr08	14066725	TT	CC	CC	SYNONYMOUS_CODING	101511618	uncharacterized LOC101511618
SNP_60680_A_14068972	NC_021167.1	Ca_Kabuli_Chr08	14068972	CC	TT	TT	URR	101511618	uncharacterized LOC101511618
SNP_60681_A_14072694	NC_021167.1	Ca_Kabuli_Chr08	14072694	CC	TT	TT	INTERGENIC		
SNP_60683_A_14072726	NC_021167.1	Ca_Kabuli_Chr08	14072726	CC	TT	TT	INTERGENIC		
SNP_60684_A_14072737	NC_021167.1	Ca_Kabuli_Chr08	14072737	CC	TT	TT	INTERGENIC		
SNP_60685_A_14072739	NC_021167.1	Ca_Kabuli_Chr08	14072739	AA	GG	GG	INTERGENIC		
SNP_60686_A_14072763	NC_021167.1	Ca_Kabuli_Chr08	14072763	TT	CC	CC	INTERGENIC		
SNP_60687_A_14072791	NC_021167.1	Ca_Kabuli_Chr08	14072791	CC	AA	AA	DRR	101509696	AP-3 complex subunit delta
SNP_60688_A_14072800	NC_021167.1	Ca_Kabuli_Chr08	14072800	AA	CC	CC	DRR	101509696	AP-3 complex subunit delta
SNP_60689_A_14072802	NC_021167.1	Ca_Kabuli_Chr08	14072802	AA	GG	GG	DRR	101509696	AP-3 complex subunit delta
SNP_60690_A_14072810	NC_021167.1	Ca_Kabuli_Chr08	14072810	CC	TT	TT	DRR	101509696	AP-3 complex subunit delta

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60691_A_14072875	NC_021167.1	Ca_Kabuli_Chr08	14072875	CC	TT	TT	DRR	101509696	AP-3 complex subunit delta
SNP_60692_A_14072936	NC_021167.1	Ca_Kabuli_Chr08	14072936	CC	TT	TT	DRR	101509696	AP-3 complex subunit delta
SNP_60693_A_14072937	NC_021167.1	Ca_Kabuli_Chr08	14072937	GG	AA	AA	DRR	101509696	AP-3 complex subunit delta
SNP_60694_A_14072949	NC_021167.1	Ca_Kabuli_Chr08	14072949	CC	GG	GG	DRR	101509696	AP-3 complex subunit delta
SNP_60695_A_14073455	NC_021167.1	Ca_Kabuli_Chr08	14073455	TT	CC	CC	DRR	101509696	AP-3 complex subunit delta
SNP_60696_A_14073462	NC_021167.1	Ca_Kabuli_Chr08	14073462	CC	TT	TT	DRR	101509696	AP-3 complex subunit delta
SNP_60698_A_14073621	NC_021167.1	Ca_Kabuli_Chr08	14073621	TT	CC	CC	DRR	101509696	AP-3 complex subunit delta
SNP_60699_A_14073756	NC_021167.1	Ca_Kabuli_Chr08	14073756	AA	CC	CC	DRR	101509696	AP-3 complex subunit delta
SNP_60700_A_14074253	NC_021167.1	Ca_Kabuli_Chr08	14074253	CC	TT	TT	SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60702_A_14074313	NC_021167.1	Ca_Kabuli_Chr08	14074313	CC	GG	GG	SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60703_A_14074533	NC_021167.1	Ca_Kabuli_Chr08	14074533	GG	TT	TT	NON_SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60704_A_14074566	NC_021167.1	Ca_Kabuli_Chr08	14074566	CC	GG	GG	NON_SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60705_A_14074624	NC_021167.1	Ca_Kabuli_Chr08	14074624	GG	TT	TT	NON_SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60706_A_14074643	NC_021167.1	Ca_Kabuli_Chr08	14074643	GG	CC	CC	SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60707_A_14076621	NC_021167.1	Ca_Kabuli_Chr08	14076621	CC	AA	AA	NON_SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60708_A_14076817	NC_021167.1	Ca_Kabuli_Chr08	14076817	GG	TT	TT	NON_SYNONYMOUS_CODING	101509696	AP-3 complex subunit delta
SNP_60710_A_14076969	NC_021167.1	Ca_Kabuli_Chr08	14076969	GG	TT	TT	DRR	101509696	AP-3 complex subunit delta
SNP_60711_A_14076993	NC_021167.1	Ca_Kabuli_Chr08	14076993	AA	CC	CC	DRR	101509696	AP-3 complex subunit delta
SNP_60712_A_14076994	NC_021167.1	Ca_Kabuli_Chr08	14076994	GG	AA	AA	DRR	101509696	AP-3 complex subunit delta
SNP_60715_A_14093677	NC_021167.1	Ca_Kabuli_Chr08	14093677	AA	TT	TT	DRR	101495193	WAT1-related protein At3g18200-like
SNP_60716_A_14093906	NC_021167.1	Ca_Kabuli_Chr08	14093906	TT	AA	AA	DRR	101495193	WAT1-related protein At3g18200-like
SNP_60717_A_14097963	NC_021167.1	Ca_Kabuli_Chr08	14097963	TT	CC	CC	DRR	101512154	integrator complex subunit 9-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60718_A_14107206	NC_021167.1	Ca_Kabuli_Chr08	14107206	CC	TT	TT	INTRON	101495193	WAT1-related protein At3g18200-like
SNP_60719_A_14111574	NC_021167.1	Ca_Kabuli_Chr08	14111574	CC	TT	TT	INTRON	101495193	WAT1-related protein At3g18200-like
SNP_60721_A_14113731	NC_021167.1	Ca_Kabuli_Chr08	14113731	GG	TT	TT	INTERGENIC		
SNP_60722_A_14116971	NC_021167.1	Ca_Kabuli_Chr08	14116971	AA	GG	GG	INTERGENIC		
SNP_60723_A_14120709	NC_021167.1	Ca_Kabuli_Chr08	14120709	TT	CC	CC	INTERGENIC		
SNP_60724_A_14120887	NC_021167.1	Ca_Kabuli_Chr08	14120887	GG	AA	AA	INTERGENIC		
SNP_60725_A_14120939	NC_021167.1	Ca_Kabuli_Chr08	14120939	GG	TT	TT	INTERGENIC		
SNP_60727_A_14124541	NC_021167.1	Ca_Kabuli_Chr08	14124541	GG	AA	AA	INTERGENIC		
SNP_60728_A_14125249	NC_021167.1	Ca_Kabuli_Chr08	14125249	TT	AA	AA	INTRON	101512799	probable protein phosphatase 2C 8
SNP_60729_A_14126353	NC_021167.1	Ca_Kabuli_Chr08	14126353	CC	AA	AA	INTRON	101512799	probable protein phosphatase 2C 8
SNP_60730_A_14126434	NC_021167.1	Ca_Kabuli_Chr08	14126434	TT	GG	GG	INTRON	101512799	probable protein phosphatase 2C 8
SNP_60732_A_14127105	NC_021167.1	Ca_Kabuli_Chr08	14127105	TT	CC	CC	INTRON	101512799	probable protein phosphatase 2C 8
SNP_60733_A_14128928	NC_021167.1	Ca_Kabuli_Chr08	14128928	CC	GG	GG	INTRON	101512799	probable protein phosphatase 2C 8
SNP_60734_A_14129628	NC_021167.1	Ca_Kabuli_Chr08	14129628	GG	AA	AA	URR	101512799	probable protein phosphatase 2C 8
SNP_60735_A_14129785	NC_021167.1	Ca_Kabuli_Chr08	14129785	CC	TT	TT	URR	101512799	probable protein phosphatase 2C 8
SNP_60736_A_14130108	NC_021167.1	Ca_Kabuli_Chr08	14130108	TT	GG	GG	URR	101512799	probable protein phosphatase 2C 8
SNP_60737_A_14130167	NC_021167.1	Ca_Kabuli_Chr08	14130167	TT	AA	AA	URR	101512799	probable protein phosphatase 2C 8
SNP_60739_A_14131284	NC_021167.1	Ca_Kabuli_Chr08	14131284	CC	TT	TT	DRR	101513342	uncharacterized PKHD-type hydroxylase At1g22950-like
SNP_60740_A_14132655	NC_021167.1	Ca_Kabuli_Chr08	14132655	TT	CC	CC	INTRON	101513342	uncharacterized PKHD-type hydroxylase At1g22950-like
SNP_60741_A_14137796	NC_021167.1	Ca_Kabuli_Chr08	14137796	TT	AA	AA	NON_SYNONYMOUS_CODING	id191631	Unknown function
SNP_60742_A_14139124	NC_021167.1	Ca_Kabuli_Chr08	14139124	TT	AA	AA	DRR	101513762	uncharacterized LOC101513762
SNP_60743_A_14144716	NC_021167.1	Ca_Kabuli_Chr08	14144716	CC	GG	GG	URR	101513762	uncharacterized LOC101513762

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60744_A_14150025	NC_021167.1	Ca_Kabuli_Chr08	14150025	AA	GG	GG	INTRON	101514104	nuclear poly(A) polymerase 1
SNP_60745_A_14151151	NC_021167.1	Ca_Kabuli_Chr08	14151151	CC	GG	GG	INTRON	101514104	nuclear poly(A) polymerase 1
SNP_60746_A_14155293	NC_021167.1	Ca_Kabuli_Chr08	14155293	AA	GG	GG	URR	101514104	nuclear poly(A) polymerase 1
SNP_60748_A_14163127	NC_021167.1	Ca_Kabuli_Chr08	14163127	TT	AA	AA	INTERGENIC		
SNP_60750_A_14166302	NC_021167.1	Ca_Kabuli_Chr08	14166302	TT	CC	CC	INTERGENIC		
SNP_60751_A_14194895	NC_021167.1	Ca_Kabuli_Chr08	14194895	AA	TT	TT	URR	101495516	uncharacterized protein At4g26485-like
SNP_60752_A_14194919	NC_021167.1	Ca_Kabuli_Chr08	14194919	GG	AA	AA	URR	101495516	uncharacterized protein At4g26485-like
SNP_60753_A_14203379	NC_021167.1	Ca_Kabuli_Chr08	14203379	AA	TT	TT	NON_SYNONYMOUS_CODING	id191673	Unknown function
SNP_60754_A_14203383	NC_021167.1	Ca_Kabuli_Chr08	14203383	TT	CC	CC	NON_SYNONYMOUS_CODING	id191673	Unknown function
SNP_60755_A_14210812	NC_021167.1	Ca_Kabuli_Chr08	14210812	AA	CC	CC	INTERGENIC		
SNP_60756_A_14210822	NC_021167.1	Ca_Kabuli_Chr08	14210822	GG	TT	TT	INTERGENIC		
SNP_60757_A_14213124	NC_021167.1	Ca_Kabuli_Chr08	14213124	CC	AA	AA	INTERGENIC		
SNP_60758_A_14213130	NC_021167.1	Ca_Kabuli_Chr08	14213130	AA	CC	CC	INTERGENIC		
SNP_60759_A_14218037	NC_021167.1	Ca_Kabuli_Chr08	14218037	AA	TT	TT	INTERGENIC		
SNP_60760_A_14218038	NC_021167.1	Ca_Kabuli_Chr08	14218038	AA	TT	TT	INTERGENIC		
SNP_60761_A_14218039	NC_021167.1	Ca_Kabuli_Chr08	14218039	AA	TT	TT	INTERGENIC		
SNP_60762_A_14218092	NC_021167.1	Ca_Kabuli_Chr08	14218092	TT	CC	CC	INTERGENIC		
SNP_60763_A_14218170	NC_021167.1	Ca_Kabuli_Chr08	14218170	CC	GG	GG	INTERGENIC		
SNP_60764_A_14218179	NC_021167.1	Ca_Kabuli_Chr08	14218179	AA	GG	GG	INTERGENIC		
SNP_60765_A_14218191	NC_021167.1	Ca_Kabuli_Chr08	14218191	TT	CC	CC	INTERGENIC		
SNP_60767_A_14218264	NC_021167.1	Ca_Kabuli_Chr08	14218264	GG	AA	AA	INTERGENIC		
SNP_60768_A_14218317	NC_021167.1	Ca_Kabuli_Chr08	14218317	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60769_A_14218329	NC_021167.1	Ca_Kabuli_Chr08	14218329	GG	CC	CC	INTERGENIC			
SNP_60770_A_14218377	NC_021167.1	Ca_Kabuli_Chr08	14218377	GG	TT	TT	INTERGENIC			
SNP_60771_A_14218505	NC_021167.1	Ca_Kabuli_Chr08	14218505	TT	AA	AA	INTERGENIC			
SNP_60772_A_14218534	NC_021167.1	Ca_Kabuli_Chr08	14218534	TT	CC	CC	INTERGENIC			
SNP_60773_A_14218625	NC_021167.1	Ca_Kabuli_Chr08	14218625	GG	TT	TT	INTERGENIC			
SNP_60774_A_14218704	NC_021167.1	Ca_Kabuli_Chr08	14218704	TT	AA	AA	INTERGENIC			
SNP_60775_A_14218720	NC_021167.1	Ca_Kabuli_Chr08	14218720	GG	AA	AA	INTERGENIC			
SNP_60776_A_14218726	NC_021167.1	Ca_Kabuli_Chr08	14218726	AA	GG	GG	INTERGENIC			
SNP_60777_A_14218743	NC_021167.1	Ca_Kabuli_Chr08	14218743	CC	TT	TT	INTERGENIC			
SNP_60778_A_14218792	NC_021167.1	Ca_Kabuli_Chr08	14218792	GG	AA	AA	INTERGENIC			
SNP_60779_A_14218804	NC_021167.1	Ca_Kabuli_Chr08	14218804	AA	GG	GG	INTERGENIC			
SNP_60780_A_14218807	NC_021167.1	Ca_Kabuli_Chr08	14218807	CC	TT	TT	INTERGENIC			
SNP_60781_A_14220438	NC_021167.1	Ca_Kabuli_Chr08	14220438	CC	GG	GG	INTERGENIC			
SNP_60782_A_14221931	NC_021167.1	Ca_Kabuli_Chr08	14221931	TT	CC	CC	INTERGENIC			
SNP_60783_A_14223246	NC_021167.1	Ca_Kabuli_Chr08	14223246	AA	GG	GG	INTERGENIC			
SNP_60784_A_14223740	NC_021167.1	Ca_Kabuli_Chr08	14223740	AA	TT	TT	INTERGENIC			
SNP_60786_A_14231673	NC_021167.1	Ca_Kabuli_Chr08	14231673	GG	AA	AA	INTERGENIC			
SNP_60787_A_14238327	NC_021167.1	Ca_Kabuli_Chr08	14238327	GG	TT	TT	INTERGENIC			
SNP_60789_A_14238388	NC_021167.1	Ca_Kabuli_Chr08	14238388	GG	AA	AA	INTERGENIC			
SNP_60790_A_14238674	NC_021167.1	Ca_Kabuli_Chr08	14238674	GG	AA	AA	INTERGENIC			
SNP_60791_A_14239177	NC_021167.1	Ca_Kabuli_Chr08	14239177	GG	AA	AA	INTERGENIC			
SNP_60792_A_14239374	NC_021167.1	Ca_Kabuli_Chr08	14239374	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60793_A_14239406	NC_021167.1	Ca_Kabuli_Chr08	14239406	TT	CC	CC	INTERGENIC		
SNP_60794_A_14239430	NC_021167.1	Ca_Kabuli_Chr08	14239430	TT	AA	AA	INTERGENIC		
SNP_60795_A_14243954	NC_021167.1	Ca_Kabuli_Chr08	14243954	AA	TT	TT	URR	101496172	Unknown function
SNP_60796_A_14244022	NC_021167.1	Ca_Kabuli_Chr08	14244022	TT	GG	GG	URR	101496172	Unknown function
SNP_60797_A_14244269	NC_021167.1	Ca_Kabuli_Chr08	14244269	TT	CC	CC	URR	101496172	Unknown function
SNP_60798_A_14244308	NC_021167.1	Ca_Kabuli_Chr08	14244308	TT	GG	GG	URR	101496172	Unknown function
SNP_60800_A_14245156	NC_021167.1	Ca_Kabuli_Chr08	14245156	GG	TT	TT	DRR	101514979	uncharacterized LOC101514979
SNP_60801_A_14245578	NC_021167.1	Ca_Kabuli_Chr08	14245578	CC	AA	AA	INTERGENIC		
SNP_60802_A_14248979	NC_021167.1	Ca_Kabuli_Chr08	14248979	TT	CC	CC	URR	101514979	uncharacterized LOC101514979
SNP_60803_A_14250628	NC_021167.1	Ca_Kabuli_Chr08	14250628	GG	AA	AA	URR	101514979	uncharacterized LOC101514979
SNP_60805_A_14252408	NC_021167.1	Ca_Kabuli_Chr08	14252408	TT	GG	GG	INTERGENIC		
SNP_60806_A_14252417	NC_021167.1	Ca_Kabuli_Chr08	14252417	CC	TT	TT	INTERGENIC		
SNP_60807_A_14252419	NC_021167.1	Ca_Kabuli_Chr08	14252419	CC	TT	TT	INTERGENIC		
SNP_60808_A_14252426	NC_021167.1	Ca_Kabuli_Chr08	14252426	CC	TT	TT	INTERGENIC		
SNP_60809_A_14252427	NC_021167.1	Ca_Kabuli_Chr08	14252427	GG	AA	AA	INTERGENIC		
SNP_60810_A_14252436	NC_021167.1	Ca_Kabuli_Chr08	14252436	CC	TT	TT	INTERGENIC		
SNP_60811_A_14252726	NC_021167.1	Ca_Kabuli_Chr08	14252726	CC	TT	TT	INTERGENIC		
SNP_60812_A_14253348	NC_021167.1	Ca_Kabuli_Chr08	14253348	CC	TT	TT	INTERGENIC		
SNP_60813_A_14257349	NC_021167.1	Ca_Kabuli_Chr08	14257349	AA	GG	GG	DRR	101488257	uncharacterized LOC101488257
SNP_60815_A_14264258	NC_021167.1	Ca_Kabuli_Chr08	14264258	TT	AA	AA	INTERGENIC		
SNP_60816_A_14264259	NC_021167.1	Ca_Kabuli_Chr08	14264259	TT	AA	AA	INTERGENIC		
SNP_60817_A_14264260	NC_021167.1	Ca_Kabuli_Chr08	14264260	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60818_A_14264302	NC_021167.1	Ca_Kabuli_Chr08	14264302	AA	GG	GG	INTERGENIC		
SNP_60819_A_14264309	NC_021167.1	Ca_Kabuli_Chr08	14264309	CC	AA	AA	INTERGENIC		
SNP_60821_A_14268718	NC_021167.1	Ca_Kabuli_Chr08	14268718	TT	GG	GG	INTERGENIC		
SNP_60822_A_14270850	NC_021167.1	Ca_Kabuli_Chr08	14270850	GG	TT	TT	INTERGENIC		
SNP_60823_A_14270876	NC_021167.1	Ca_Kabuli_Chr08	14270876	TT	CC	CC	INTERGENIC		
SNP_60824_A_14270878	NC_021167.1	Ca_Kabuli_Chr08	14270878	GG	TT	TT	INTERGENIC		
SNP_60825_A_14271146	NC_021167.1	Ca_Kabuli_Chr08	14271146	GG	AA	AA	INTERGENIC		
SNP_60826_A_14271191	NC_021167.1	Ca_Kabuli_Chr08	14271191	AA	GG	GG	INTERGENIC		
SNP_60827_A_14271204	NC_021167.1	Ca_Kabuli_Chr08	14271204	AA	GG	GG	INTERGENIC		
SNP_60828_A_14271221	NC_021167.1	Ca_Kabuli_Chr08	14271221	CC	TT	TT	INTERGENIC		
SNP_60829_A_14286650	NC_021167.1	Ca_Kabuli_Chr08	14286650	AA	GG	GG	INTRON	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60831_A_14288593	NC_021167.1	Ca_Kabuli_Chr08	14288593	AA	TT	TT	URR	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60832_A_14288597	NC_021167.1	Ca_Kabuli_Chr08	14288597	AA	GG	GG	URR	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60833_A_14288620	NC_021167.1	Ca_Kabuli_Chr08	14288620	TT	CC	CC	URR	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60834_A_14288623	NC_021167.1	Ca_Kabuli_Chr08	14288623	GG	AA	AA	URR	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60835_A_14288701	NC_021167.1	Ca_Kabuli_Chr08	14288701	GG	AA	AA	URR	101488940	putative E3 ubiquitin-protein ligase RING1a
SNP_60836_A_14290588	NC_021167.1	Ca_Kabuli_Chr08	14290588	AA	GG	GG	INTERGENIC		
SNP_60838_A_14302514	NC_021167.1	Ca_Kabuli_Chr08	14302514	GG	TT	TT	INTERGENIC		
SNP_60839_A_14302522	NC_021167.1	Ca_Kabuli_Chr08	14302522	GG	AA	AA	INTERGENIC		
SNP_60840_A_14303305	NC_021167.1	Ca_Kabuli_Chr08	14303305	TT	GG	GG	INTERGENIC		
SNP_60841_A_14303841	NC_021167.1	Ca_Kabuli_Chr08	14303841	AA	GG	GG	DRR	101410554	transfer RNA leucine (anticodon CAG)
SNP_60842_A_14306060	NC_021167.1	Ca_Kabuli_Chr08	14306060	CC	TT	TT	URR	101410554	transfer RNA leucine (anticodon CAG)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60843_A_14306073	NC_021167.1	Ca_Kabuli_Chr08	14306073	CC	TT	TT	URR	101410554	transfer RNA leucine (anticodon CAG)
SNP_60846_A_14307847	NC_021167.1	Ca_Kabuli_Chr08	14307847	CC	TT	TT	DRR	101489811	reticulon-like protein B9
SNP_60847_A_14308636	NC_021167.1	Ca_Kabuli_Chr08	14308636	TT	GG	GG	INTRON	101489811	reticulon-like protein B9
SNP_60848_A_14308638	NC_021167.1	Ca_Kabuli_Chr08	14308638	AA	TT	TT	INTRON	101489811	reticulon-like protein B9
SNP_60849_A_14308640	NC_021167.1	Ca_Kabuli_Chr08	14308640	CC	TT	TT	INTRON	101489811	reticulon-like protein B9
SNP_60850_A_14310328	NC_021167.1	Ca_Kabuli_Chr08	14310328	CC	AA	AA	URR	101489811	reticulon-like protein B9
SNP_60851_A_14312478	NC_021167.1	Ca_Kabuli_Chr08	14312478	TT	CC	CC	INTERGENIC		
SNP_60852_A_14312643	NC_021167.1	Ca_Kabuli_Chr08	14312643	GG	AA	AA	INTERGENIC		
SNP_60854_A_14315722	NC_021167.1	Ca_Kabuli_Chr08	14315722	AA	CC	CC	SYNONYMOUS_CODING	101490133	chlorophyllase-1-like
SNP_60855_A_14329495	NC_021167.1	Ca_Kabuli_Chr08	14329495	GG	TT	TT	URR	101490775	kinesin-like protein NACK1
SNP_60856_A_14331064	NC_021167.1	Ca_Kabuli_Chr08	14331064	TT	CC	CC	DRR	101491315	uncharacterized LOC101491315
SNP_60857_A_14331128	NC_021167.1	Ca_Kabuli_Chr08	14331128	AA	GG	GG	DRR	101491315	uncharacterized LOC101491315
SNP_60858_A_14331345	NC_021167.1	Ca_Kabuli_Chr08	14331345	AA	TT	TT	INTERGENIC		
SNP_60859_A_14331355	NC_021167.1	Ca_Kabuli_Chr08	14331355	GG	AA	AA	INTERGENIC		
SNP_60860_A_14331579	NC_021167.1	Ca_Kabuli_Chr08	14331579	CC	TT	TT	INTERGENIC		
SNP_60861_A_14331592	NC_021167.1	Ca_Kabuli_Chr08	14331592	CC	TT	TT	INTERGENIC		
SNP_60862_A_14333042	NC_021167.1	Ca_Kabuli_Chr08	14333042	AA	CC	CC	NON_SYNONYMOUS_CODING	101491315	uncharacterized LOC101491315
SNP_60864_A_14342897	NC_021167.1	Ca_Kabuli_Chr08	14342897	CC	GG	GG	INTERGENIC		
SNP_60865_A_14342938	NC_021167.1	Ca_Kabuli_Chr08	14342938	TT	AA	AA	INTERGENIC		
SNP_60867_A_14347536	NC_021167.1	Ca_Kabuli_Chr08	14347536	AA	GG	GG	INTERGENIC		
SNP_60868_A_14349160	NC_021167.1	Ca_Kabuli_Chr08	14349160	AA	TT	TT	DRR	101492278	protein NETWORKED 4B-like
SNP_60869_A_14349163	NC_021167.1	Ca_Kabuli_Chr08	14349163	AA	GG	GG	DRR	101492278	protein NETWORKED 4B-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60870_A_14351501	NC_021167.1	Ca_Kabuli_Chr08	14351501	AA	GG	GG	SYNONYMOUS_CODING	101492278	protein NETWORKED 4B-like
SNP_60871_A_14351534	NC_021167.1	Ca_Kabuli_Chr08	14351534	GG	AA	AA	SYNONYMOUS_CODING	101492278	protein NETWORKED 4B-like
SNP_60872_A_14354683	NC_021167.1	Ca_Kabuli_Chr08	14354683	CC	TT	TT	INTRON	101492278	protein NETWORKED 4B-like
SNP_60873_A_14354934	NC_021167.1	Ca_Kabuli_Chr08	14354934	TT	CC	CC	URR	101492278	protein NETWORKED 4B-like
SNP_60874_A_14355032	NC_021167.1	Ca_Kabuli_Chr08	14355032	AA	TT	TT	URR	101492278	protein NETWORKED 4B-like
SNP_60876_A_14355071	NC_021167.1	Ca_Kabuli_Chr08	14355071	TT	CC	CC	URR	101492278	protein NETWORKED 4B-like
SNP_60877_A_14355187	NC_021167.1	Ca_Kabuli_Chr08	14355187	CC	GG	GG	URR	101492278	protein NETWORKED 4B-like
SNP_60879_A_14356873	NC_021167.1	Ca_Kabuli_Chr08	14356873	GG	AA	AA	URR	101492278	protein NETWORKED 4B-like
SNP_60880_A_14356884	NC_021167.1	Ca_Kabuli_Chr08	14356884	GG	AA	AA	URR	101492278	protein NETWORKED 4B-like
SNP_60881_A_14359546	NC_021167.1	Ca_Kabuli_Chr08	14359546	AA	TT	TT	INTERGENIC		
SNP_60883_A_14362382	NC_021167.1	Ca_Kabuli_Chr08	14362382	CC	TT	TT	INTERGENIC		
SNP_60885_A_14367047	NC_021167.1	Ca_Kabuli_Chr08	14367047	TT	CC	CC	INTERGENIC		
SNP_60886_A_14370176	NC_021167.1	Ca_Kabuli_Chr08	14370176	CC	TT	TT	INTRON	101492618	probable serine/threonine-protein kinase At1g18390
SNP_60887_A_14370251	NC_021167.1	Ca_Kabuli_Chr08	14370251	GG	AA	AA	INTRON	101492618	probable serine/threonine-protein kinase At1g18390
SNP_60888_A_14370410	NC_021167.1	Ca_Kabuli_Chr08	14370410	TT	AA	AA	INTRON	101492618	probable serine/threonine-protein kinase At1g18390
SNP_60889_A_14370412	NC_021167.1	Ca_Kabuli_Chr08	14370412	GG	TT	TT	INTRON	101492618	probable serine/threonine-protein kinase At1g18390
SNP_60891_A_14370587	NC_021167.1	Ca_Kabuli_Chr08	14370587	AA	GG	GG	INTRON	101492618	probable serine/threonine-protein kinase At1g18390
SNP_60896_A_14437565	NC_021167.1	Ca_Kabuli_Chr08	14437565	TT	GG	GG	INTERGENIC		
SNP_60897_A_14437567	NC_021167.1	Ca_Kabuli_Chr08	14437567	TT	GG	GG	INTERGENIC		
SNP_60898_A_14477041	NC_021167.1	Ca_Kabuli_Chr08	14477041	AA	GG	GG	INTERGENIC		
SNP_60899_A_14505700	NC_021167.1	Ca_Kabuli_Chr08	14505700	AA	CC	CC	URR	101497821	pentatricopeptide repeat-containing protein At2g01860
SNP_60901_A_14564999	NC_021167.1	Ca_Kabuli_Chr08	14564999	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_60902_A_14565743	NC_021167.1	Ca_Kabuli_Chr08	14565743	CC	TT	TT	INTERGENIC		
SNP_60904_A_14569766	NC_021167.1	Ca_Kabuli_Chr08	14569766	GG	AA	AA	INTERGENIC		
SNP_60905_A_14578703	NC_021167.1	Ca_Kabuli_Chr08	14578703	CC	TT	TT	INTRON	101500922	kinesin-3
SNP_60907_A_14580156	NC_021167.1	Ca_Kabuli_Chr08	14580156	AA	GG	GG	SYNONYMOUS_CODING	101500922	kinesin-3
SNP_60908_A_14581193	NC_021167.1	Ca_Kabuli_Chr08	14581193	AA	TT	TT	INTRON	101500922	kinesin-3
SNP_60909_A_14581650	NC_021167.1	Ca_Kabuli_Chr08	14581650	AA	TT	TT	NON_SYNONYMOUS_CODING	101500922	kinesin-3
SNP_60910_A_14585780	NC_021167.1	Ca_Kabuli_Chr08	14585780	CC	GG	GG	INTRON	101500922	kinesin-3
SNP_60911_A_14585827	NC_021167.1	Ca_Kabuli_Chr08	14585827	GG	AA	AA	INTRON	101500922	kinesin-3
SNP_60912_A_14586833	NC_021167.1	Ca_Kabuli_Chr08	14586833	GG	TT	TT	DRR	101501665	putative disease resistance RPP13-like protein 1
SNP_60913_A_14590739	NC_021167.1	Ca_Kabuli_Chr08	14590739	TT	CC	CC	NON_SYNONYMOUS_CODING	101501665	putative disease resistance RPP13-like protein 1
SNP_60914_A_14601274	NC_021167.1	Ca_Kabuli_Chr08	14601274	TT	AA	AA	INTRON	101502099	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10-B
SNP_60915_A_14601278	NC_021167.1	Ca_Kabuli_Chr08	14601278	TT	AA	AA	INTRON	101502099	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10-B
SNP_60916_A_14603360	NC_021167.1	Ca_Kabuli_Chr08	14603360	AA	GG	GG	INTRON	101502099	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10-B
SNP_60919_A_14608948	NC_021167.1	Ca_Kabuli_Chr08	14608948	AA	TT	TT	INTERGENIC		
SNP_60920_A_14609018	NC_021167.1	Ca_Kabuli_Chr08	14609018	CC	TT	TT	INTERGENIC		
SNP_60921_A_14613560	NC_021167.1	Ca_Kabuli_Chr08	14613560	AA	GG	GG	INTRON	101502421	carbon catabolite repressor protein 4 homolog 5
SNP_60923_A_14615058	NC_021167.1	Ca_Kabuli_Chr08	14615058	TT	CC	CC	INTRON	101502421	carbon catabolite repressor protein 4 homolog 5
SNP_60925_A_14617759	NC_021167.1	Ca_Kabuli_Chr08	14617759	GG	AA	AA	DRR	101502723	syntxin-81
SNP_60926_A_14619355	NC_021167.1	Ca_Kabuli_Chr08	14619355	GG	AA	AA	INTERGENIC		
SNP_60929_A_14629130	NC_021167.1	Ca_Kabuli_Chr08	14629130	AA	GG	GG	INTERGENIC		
SNP_60930_A_14629508	NC_021167.1	Ca_Kabuli_Chr08	14629508	GG	AA	AA	INTERGENIC		
SNP_60931_A_14629571	NC_021167.1	Ca_Kabuli_Chr08	14629571	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60932_A_14630393	NC_021167.1	Ca_Kabuli_Chr08	14630393	AA	CC	CC	INTERGENIC			
SNP_60933_A_14630886	NC_021167.1	Ca_Kabuli_Chr08	14630886	CC	GG	GG	DRR	101503034		twinkle homolog protein, chloroplastic/mitochondrial
SNP_60934_A_14631138	NC_021167.1	Ca_Kabuli_Chr08	14631138	AA	TT	TT	DRR	101503034		twinkle homolog protein, chloroplastic/mitochondrial
SNP_60935_A_14631452	NC_021167.1	Ca_Kabuli_Chr08	14631452	CC	TT	TT	DRR	101503034		twinkle homolog protein, chloroplastic/mitochondrial
SNP_60936_A_14642677	NC_021167.1	Ca_Kabuli_Chr08	14642677	GG	CC	CC	URR	101503034		twinkle homolog protein, chloroplastic/mitochondrial
SNP_60937_A_14642691	NC_021167.1	Ca_Kabuli_Chr08	14642691	CC	TT	TT	URR	101503034		twinkle homolog protein, chloroplastic/mitochondrial
SNP_60938_A_14644268	NC_021167.1	Ca_Kabuli_Chr08	14644268	GG	AA	AA	INTERGENIC			
SNP_60939_A_14644296	NC_021167.1	Ca_Kabuli_Chr08	14644296	GG	AA	AA	INTERGENIC			
SNP_60940_A_14644304	NC_021167.1	Ca_Kabuli_Chr08	14644304	CC	TT	TT	INTERGENIC			
SNP_60941_A_14644350	NC_021167.1	Ca_Kabuli_Chr08	14644350	GG	AA	AA	INTERGENIC			
SNP_60942_A_14644363	NC_021167.1	Ca_Kabuli_Chr08	14644363	CC	TT	TT	INTERGENIC			
SNP_60943_A_14644546	NC_021167.1	Ca_Kabuli_Chr08	14644546	AA	GG	GG	INTERGENIC			
SNP_60944_A_14644839	NC_021167.1	Ca_Kabuli_Chr08	14644839	TT	AA	AA	INTERGENIC			
SNP_60945_A_14644913	NC_021167.1	Ca_Kabuli_Chr08	14644913	CC	GG	GG	INTERGENIC			
SNP_60946_A_14644987	NC_021167.1	Ca_Kabuli_Chr08	14644987	GG	AA	AA	INTERGENIC			
SNP_60947_A_14645221	NC_021167.1	Ca_Kabuli_Chr08	14645221	GG	AA	AA	INTERGENIC			
SNP_60948_A_14645238	NC_021167.1	Ca_Kabuli_Chr08	14645238	GG	AA	AA	INTERGENIC			
SNP_60951_A_14647186	NC_021167.1	Ca_Kabuli_Chr08	14647186	GG	AA	AA	INTERGENIC			
SNP_60952_A_14647257	NC_021167.1	Ca_Kabuli_Chr08	14647257	CC	TT	TT	INTERGENIC			
SNP_60953_A_14648957	NC_021167.1	Ca_Kabuli_Chr08	14648957	CC	TT	TT	INTERGENIC			
SNP_60954_A_14649021	NC_021167.1	Ca_Kabuli_Chr08	14649021	GG	TT	TT	INTERGENIC			
SNP_60955_A_14649681	NC_021167.1	Ca_Kabuli_Chr08	14649681	AA	CC	CC	INTERGENIC			

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SNP_60956_A_14649686	NC_021167.1	Ca_Kabuli_Chr08	14649686	AA	GG	GG	INTERGENIC			
SNP_60957_A_14649992	NC_021167.1	Ca_Kabuli_Chr08	14649992	TT	CC	CC	INTERGENIC			
SNP_60958_A_14649997	NC_021167.1	Ca_Kabuli_Chr08	14649997	CC	TT	TT	INTERGENIC			
SNP_60959_A_14650015	NC_021167.1	Ca_Kabuli_Chr08	14650015	TT	CC	CC	INTERGENIC			
SNP_60960_A_14650032	NC_021167.1	Ca_Kabuli_Chr08	14650032	TT	CC	CC	INTERGENIC			
SNP_60961_A_14650157	NC_021167.1	Ca_Kabuli_Chr08	14650157	TT	CC	CC	INTERGENIC			
SNP_60962_A_14650416	NC_021167.1	Ca_Kabuli_Chr08	14650416	AA	TT	TT	INTERGENIC			
SNP_60963_A_14650438	NC_021167.1	Ca_Kabuli_Chr08	14650438	TT	AA	AA	INTERGENIC			
SNP_60964_A_14650738	NC_021167.1	Ca_Kabuli_Chr08	14650738	CC	AA	AA	INTERGENIC			
SNP_60965_A_14652146	NC_021167.1	Ca_Kabuli_Chr08	14652146	TT	AA	AA	INTERGENIC			
SNP_60966_A_14657229	NC_021167.1	Ca_Kabuli_Chr08	14657229	TT	AA	AA	INTERGENIC			
SNP_60967_A_14658844	NC_021167.1	Ca_Kabuli_Chr08	14658844	AA	TT	TT	INTERGENIC			
SNP_60968_A_14658883	NC_021167.1	Ca_Kabuli_Chr08	14658883	GG	CC	CC	INTERGENIC			
SNP_60971_A_14659671	NC_021167.1	Ca_Kabuli_Chr08	14659671	AA	GG	GG	INTERGENIC			
SNP_60972_A_14659899	NC_021167.1	Ca_Kabuli_Chr08	14659899	TT	CC	CC	INTERGENIC			
SNP_60974_A_14660002	NC_021167.1	Ca_Kabuli_Chr08	14660002	GG	TT	TT	INTERGENIC			
SNP_60975_A_14660062	NC_021167.1	Ca_Kabuli_Chr08	14660062	GG	AA	AA	INTERGENIC			
SNP_60976_A_14660089	NC_021167.1	Ca_Kabuli_Chr08	14660089	TT	GG	GG	INTERGENIC			
SNP_60977_A_14660372	NC_021167.1	Ca_Kabuli_Chr08	14660372	AA	GG	GG	INTERGENIC			
SNP_60978_A_14660558	NC_021167.1	Ca_Kabuli_Chr08	14660558	TT	CC	CC	INTERGENIC			
SNP_60979_A_14660679	NC_021167.1	Ca_Kabuli_Chr08	14660679	CC	TT	TT	INTERGENIC			
SNP_60980_A_14660680	NC_021167.1	Ca_Kabuli_Chr08	14660680	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_60981_A_14660711	NC_021167.1	Ca_Kabuli_Chr08	14660711	GG	AA	AA	INTERGENIC			
SNP_60982_A_14660713	NC_021167.1	Ca_Kabuli_Chr08	14660713	TT	AA	AA	INTERGENIC			
SNP_60983_A_14660718	NC_021167.1	Ca_Kabuli_Chr08	14660718	CC	AA	AA	INTERGENIC			
SNP_60984_A_14660728	NC_021167.1	Ca_Kabuli_Chr08	14660728	AA	TT	TT	INTERGENIC			
SNP_60985_A_14660766	NC_021167.1	Ca_Kabuli_Chr08	14660766	GG	AA	AA	INTERGENIC			
SNP_60988_A_14662257	NC_021167.1	Ca_Kabuli_Chr08	14662257	CC	TT	TT	INTERGENIC			
SNP_60989_A_14662284	NC_021167.1	Ca_Kabuli_Chr08	14662284	CC	TT	TT	INTERGENIC			
SNP_60990_A_14662646	NC_021167.1	Ca_Kabuli_Chr08	14662646	AA	GG	GG	INTERGENIC			
SNP_60991_A_14662658	NC_021167.1	Ca_Kabuli_Chr08	14662658	TT	CC	CC	INTERGENIC			
SNP_60992_A_14662669	NC_021167.1	Ca_Kabuli_Chr08	14662669	AA	GG	GG	INTERGENIC			
SNP_60993_A_14662687	NC_021167.1	Ca_Kabuli_Chr08	14662687	AA	GG	GG	INTERGENIC			
SNP_60994_A_14665127	NC_021167.1	Ca_Kabuli_Chr08	14665127	TT	AA	AA	INTERGENIC			
SNP_60995_A_14668645	NC_021167.1	Ca_Kabuli_Chr08	14668645	AA	GG	GG	INTERGENIC			
SNP_60996_A_14671284	NC_021167.1	Ca_Kabuli_Chr08	14671284	TT	CC	CC	INTERGENIC			
SNP_60997_A_14671359	NC_021167.1	Ca_Kabuli_Chr08	14671359	GG	AA	AA	INTERGENIC			
SNP_60998_A_14671414	NC_021167.1	Ca_Kabuli_Chr08	14671414	TT	AA	AA	INTERGENIC			
SNP_61000_A_14671496	NC_021167.1	Ca_Kabuli_Chr08	14671496	GG	AA	AA	INTERGENIC			
SNP_61001_A_14676664	NC_021167.1	Ca_Kabuli_Chr08	14676664	GG	AA	AA	INTERGENIC			
SNP_61002_A_14677637	NC_021167.1	Ca_Kabuli_Chr08	14677637	AA	CC	CC	INTERGENIC			
SNP_61003_A_14680960	NC_021167.1	Ca_Kabuli_Chr08	14680960	TT	AA	AA	DRR	101503361	uncharacterized LOC101503361	
SNP_61004_A_14682751	NC_021167.1	Ca_Kabuli_Chr08	14682751	GG	TT	TT	URR	101503361	uncharacterized LOC101503361	
SNP_61005_A_14683515	NC_021167.1	Ca_Kabuli_Chr08	14683515	CC	TT	TT	URR	101503361	uncharacterized LOC101503361	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61006_A_14686736	NC_021167.1	Ca_Kabuli_Chr08	14686736	AA	GG	GG	INTERGENIC		
SNP_61007_A_14686797	NC_021167.1	Ca_Kabuli_Chr08	14686797	CC	TT	TT	INTERGENIC		
SNP_61009_A_14688513	NC_021167.1	Ca_Kabuli_Chr08	14688513	GG	AA	AA	INTERGENIC		
SNP_61010_A_14692001	NC_021167.1	Ca_Kabuli_Chr08	14692001	CC	TT	TT	INTRON	101503700	uncharacterized LOC101503700
SNP_61011_A_14692022	NC_021167.1	Ca_Kabuli_Chr08	14692022	CC	GG	GG	INTRON	101503700	uncharacterized LOC101503700
SNP_61012_A_14693453	NC_021167.1	Ca_Kabuli_Chr08	14693453	TT	CC	CC	INTERGENIC		
SNP_61013_A_14693509	NC_021167.1	Ca_Kabuli_Chr08	14693509	CC	GG	GG	INTERGENIC		
SNP_61014_A_14699588	NC_021167.1	Ca_Kabuli_Chr08	14699588	GG	TT	TT	URR	101504022	uncharacterized LOC101504022
SNP_61015_A_14702517	NC_021167.1	Ca_Kabuli_Chr08	14702517	TT	CC	CC	INTERGENIC		
SNP_61016_A_14704940	NC_021167.1	Ca_Kabuli_Chr08	14704940	TT	CC	CC	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61017_A_14704941	NC_021167.1	Ca_Kabuli_Chr08	14704941	AA	GG	GG	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61018_A_14704953	NC_021167.1	Ca_Kabuli_Chr08	14704953	CC	TT	TT	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61019_A_14705604	NC_021167.1	Ca_Kabuli_Chr08	14705604	AA	GG	GG	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61020_A_14705736	NC_021167.1	Ca_Kabuli_Chr08	14705736	TT	CC	CC	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61021_A_14705785	NC_021167.1	Ca_Kabuli_Chr08	14705785	GG	AA	AA	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61022_A_14706496	NC_021167.1	Ca_Kabuli_Chr08	14706496	GG	TT	TT	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61023_A_14707815	NC_021167.1	Ca_Kabuli_Chr08	14707815	TT	AA	AA	INTRON	101504670	aluminum-activated malate transporter 9-like
SNP_61025_A_14710229	NC_021167.1	Ca_Kabuli_Chr08	14710229	TT	AA	AA	DRR	101504990	protein phosphatase PP2A regulatory subunit A
SNP_61026_A_14710244	NC_021167.1	Ca_Kabuli_Chr08	14710244	TT	CC	CC	DRR	101504990	protein phosphatase PP2A regulatory subunit A
SNP_61027_A_14710506	NC_021167.1	Ca_Kabuli_Chr08	14710506	GG	TT	TT	URR	101504670	aluminum-activated malate transporter 9-like
SNP_61028_A_14712192	NC_021167.1	Ca_Kabuli_Chr08	14712192	AA	CC	CC	INTERGENIC		
SNP_61029_A_14713153	NC_021167.1	Ca_Kabuli_Chr08	14713153	TT	CC	CC	INTERGENIC		

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SNP_61031_A_14713474	NC_021167.1	Ca_Kabuli_Chr08	14713474	GG	AA	AA	INTERGENIC		
SNP_61032_A_14722171	NC_021167.1	Ca_Kabuli_Chr08	14722171	CC	TT	TT	INTRON	101497154	aspartic proteinase Asp1
SNP_61033_A_14722204	NC_021167.1	Ca_Kabuli_Chr08	14722204	TT	AA	AA	INTRON	101497154	aspartic proteinase Asp1
SNP_61034_A_14722242	NC_021167.1	Ca_Kabuli_Chr08	14722242	CC	TT	TT	INTRON	101497154	aspartic proteinase Asp1
SNP_61036_A_14723003	NC_021167.1	Ca_Kabuli_Chr08	14723003	TT	AA	AA	INTRON	101497154	aspartic proteinase Asp1
SNP_61037_A_14723025	NC_021167.1	Ca_Kabuli_Chr08	14723025	TT	AA	AA	INTRON	101497154	aspartic proteinase Asp1
SNP_61038_A_14723066	NC_021167.1	Ca_Kabuli_Chr08	14723066	TT	AA	AA	INTRON	101497154	aspartic proteinase Asp1
SNP_61039_A_14727786	NC_021167.1	Ca_Kabuli_Chr08	14727786	GG	TT	TT	URR	101497154	aspartic proteinase Asp1
SNP_61040_A_14729155	NC_021167.1	Ca_Kabuli_Chr08	14729155	CC	TT	TT	DRR	101505303	cytochrome P450 CYP736A12-like
SNP_61041_A_14729470	NC_021167.1	Ca_Kabuli_Chr08	14729470	TT	CC	CC	SYNONYMOUS_CODING	101505303	cytochrome P450 CYP736A12-like
SNP_61042_A_14730234	NC_021167.1	Ca_Kabuli_Chr08	14730234	AA	GG	GG	INTRON	101505303	cytochrome P450 CYP736A12-like
SNP_61043_A_14730286	NC_021167.1	Ca_Kabuli_Chr08	14730286	CC	TT	TT	INTRON	101505303	cytochrome P450 CYP736A12-like
SNP_61044_A_14730308	NC_021167.1	Ca_Kabuli_Chr08	14730308	CC	TT	TT	INTRON	101505303	cytochrome P450 CYP736A12-like
SNP_61045_A_14730318	NC_021167.1	Ca_Kabuli_Chr08	14730318	AA	TT	TT	INTRON	101505303	cytochrome P450 CYP736A12-like
SNP_61046_A_14730322	NC_021167.1	Ca_Kabuli_Chr08	14730322	AA	TT	TT	INTRON	101505303	cytochrome P450 CYP736A12-like
SNP_61047_A_14733030	NC_021167.1	Ca_Kabuli_Chr08	14733030	GG	AA	AA	URR	101505303	cytochrome P450 CYP736A12-like
SNP_61049_A_14734187	NC_021167.1	Ca_Kabuli_Chr08	14734187	AA	TT	TT	INTERGENIC		
SNP_61050_A_14736657	NC_021167.1	Ca_Kabuli_Chr08	14736657	AA	GG	GG	SYNONYMOUS_CODING	101505636	cytochrome P450 CYP736A12-like
SNP_61051_A_14737200	NC_021167.1	Ca_Kabuli_Chr08	14737200	CC	GG	GG	INTRON	101505636	cytochrome P450 CYP736A12-like
SNP_61052_A_14737201	NC_021167.1	Ca_Kabuli_Chr08	14737201	AA	TT	TT	INTRON	101505636	cytochrome P450 CYP736A12-like
SNP_61053_A_14737388	NC_021167.1	Ca_Kabuli_Chr08	14737388	GG	TT	TT	INTRON	101505636	cytochrome P450 CYP736A12-like
SNP_61055_A_14737574	NC_021167.1	Ca_Kabuli_Chr08	14737574	GG	TT	TT	INTRON	101505636	cytochrome P450 CYP736A12-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61056_A_14739959	NC_021167.1	Ca_Kabuli_Chr08	14739959	AA	TT	TT	INTRON	101505636	cytochrome P450 CYP736A12-like
SNP_61058_A_14746748	NC_021167.1	Ca_Kabuli_Chr08	14746748	CC	TT	TT	URR	101505636	cytochrome P450 CYP736A12-like
SNP_61060_A_14748193	NC_021167.1	Ca_Kabuli_Chr08	14748193	GG	AA	AA	INTRON	101505961	probable 3-beta-hydroxysteroid-Delta(8),Delta(7)-isomerase
SNP_61062_A_14751425	NC_021167.1	Ca_Kabuli_Chr08	14751425	CC	TT	TT	INTERGENIC		
SNP_61063_A_14751445	NC_021167.1	Ca_Kabuli_Chr08	14751445	GG	CC	CC	INTERGENIC		
SNP_61064_A_14751468	NC_021167.1	Ca_Kabuli_Chr08	14751468	AA	GG	GG	URR	101506269	protein PLANT CADMIUM RESISTANCE 9
SNP_61065_A_14751534	NC_021167.1	Ca_Kabuli_Chr08	14751534	GG	TT	TT	DRR	101506593	proteasome subunit beta type-4-like
SNP_61066_A_14751537	NC_021167.1	Ca_Kabuli_Chr08	14751537	CC	AA	AA	DRR	101506593	proteasome subunit beta type-4-like
SNP_61067_A_14751573	NC_021167.1	Ca_Kabuli_Chr08	14751573	CC	TT	TT	DRR	101506593	proteasome subunit beta type-4-like
SNP_61069_A_14753088	NC_021167.1	Ca_Kabuli_Chr08	14753088	TT	AA	AA	URR	101506269	protein PLANT CADMIUM RESISTANCE 9
SNP_61070_A_14753515	NC_021167.1	Ca_Kabuli_Chr08	14753515	GG	AA	AA	INTERGENIC		
SNP_61071_A_14753542	NC_021167.1	Ca_Kabuli_Chr08	14753542	GG	TT	TT	INTERGENIC		
SNP_61072_A_14753763	NC_021167.1	Ca_Kabuli_Chr08	14753763	TT	CC	CC	INTERGENIC		
SNP_61073_A_14753774	NC_021167.1	Ca_Kabuli_Chr08	14753774	AA	GG	GG	INTERGENIC		
SNP_61074_A_14756778	NC_021167.1	Ca_Kabuli_Chr08	14756778	TT	AA	AA	URR	101506593	proteasome subunit beta type-4-like
SNP_61075_A_14757491	NC_021167.1	Ca_Kabuli_Chr08	14757491	AA	TT	TT	DRR	101506927	40S ribosomal protein S7-1-like
SNP_61076_A_14758088	NC_021167.1	Ca_Kabuli_Chr08	14758088	TT	CC	CC	DRR	101506927	40S ribosomal protein S7-1-like
SNP_61077_A_14760129	NC_021167.1	Ca_Kabuli_Chr08	14760129	AA	TT	TT	INTERGENIC		
SNP_61078_A_14760722	NC_021167.1	Ca_Kabuli_Chr08	14760722	GG	AA	AA	INTERGENIC		
SNP_61079_A_14760725	NC_021167.1	Ca_Kabuli_Chr08	14760725	GG	AA	AA	INTERGENIC		
SNP_61081_A_14764539	NC_021167.1	Ca_Kabuli_Chr08	14764539	CC	GG	GG	INTERGENIC		
SNP_61082_A_14764540	NC_021167.1	Ca_Kabuli_Chr08	14764540	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61083_A_14764573	NC_021167.1	Ca_Kabuli_Chr08	14764573	AA	CC	CC	DRR	101497486	Unknown function
SNP_61085_A_14770799	NC_021167.1	Ca_Kabuli_Chr08	14770799	CC	GG	GG	URR	101507255	protein ASPARTIC PROTEASE IN GUARD CELL 1
SNP_61086_A_14772050	NC_021167.1	Ca_Kabuli_Chr08	14772050	CC	AA	AA	URR	101507255	protein ASPARTIC PROTEASE IN GUARD CELL 1
SNP_61087_A_14774864	NC_021167.1	Ca_Kabuli_Chr08	14774864	CC	TT	TT	INTERGENIC		
SNP_61088_A_14774896	NC_021167.1	Ca_Kabuli_Chr08	14774896	CC	TT	TT	INTERGENIC		
SNP_61089_A_14777995	NC_021167.1	Ca_Kabuli_Chr08	14777995	CC	AA	AA	DRR	101507569	uncharacterized LOC101507569
SNP_61091_A_14778056	NC_021167.1	Ca_Kabuli_Chr08	14778056	CC	TT	TT	DRR	101507569	uncharacterized LOC101507569
SNP_61092_A_14778062	NC_021167.1	Ca_Kabuli_Chr08	14778062	AA	GG	GG	DRR	101507569	uncharacterized LOC101507569
SNP_61093_A_14778120	NC_021167.1	Ca_Kabuli_Chr08	14778120	CC	TT	TT	DRR	101507569	uncharacterized LOC101507569
SNP_61094_A_14778129	NC_021167.1	Ca_Kabuli_Chr08	14778129	CC	TT	TT	DRR	101507569	uncharacterized LOC101507569
SNP_61095_A_14778141	NC_021167.1	Ca_Kabuli_Chr08	14778141	AA	GG	GG	DRR	101507569	uncharacterized LOC101507569
SNP_61096_A_14778259	NC_021167.1	Ca_Kabuli_Chr08	14778259	GG	TT	TT	DRR	101507569	uncharacterized LOC101507569
SNP_61097_A_14778260	NC_021167.1	Ca_Kabuli_Chr08	14778260	CC	TT	TT	DRR	101507569	uncharacterized LOC101507569
SNP_61098_A_14779778	NC_021167.1	Ca_Kabuli_Chr08	14779778	TT	AA	AA	INTRON	101507569	uncharacterized LOC101507569
SNP_61099_A_14779818	NC_021167.1	Ca_Kabuli_Chr08	14779818	CC	AA	AA	INTRON	101507569	uncharacterized LOC101507569
SNP_61100_A_14779819	NC_021167.1	Ca_Kabuli_Chr08	14779819	TT	GG	GG	INTRON	101507569	uncharacterized LOC101507569
SNP_61101_A_14779824	NC_021167.1	Ca_Kabuli_Chr08	14779824	CC	AA	AA	INTRON	101507569	uncharacterized LOC101507569
SNP_61102_A_14779843	NC_021167.1	Ca_Kabuli_Chr08	14779843	CC	TT	TT	INTRON	101507569	uncharacterized LOC101507569
SNP_61103_A_14779890	NC_021167.1	Ca_Kabuli_Chr08	14779890	TT	AA	AA	INTRON	101507569	uncharacterized LOC101507569
SNP_61104_A_14780266	NC_021167.1	Ca_Kabuli_Chr08	14780266	TT	CC	CC	INTRON	101507569	uncharacterized LOC101507569
SNP_61105_A_14780277	NC_021167.1	Ca_Kabuli_Chr08	14780277	GG	CC	CC	INTRON	101507569	uncharacterized LOC101507569
SNP_61106_A_14780500	NC_021167.1	Ca_Kabuli_Chr08	14780500	AA	TT	TT	NON_SYNONYMOUS_CODING	101507569	uncharacterized LOC101507569

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61108_A_14780571	NC_021167.1	Ca_Kabuli_Chr08	14780571	AA	GG	GG	INTRON	101507569	uncharacterized LOC101507569
SNP_61109_A_14780578	NC_021167.1	Ca_Kabuli_Chr08	14780578	TT	AA	AA	INTRON	101507569	uncharacterized LOC101507569
SNP_61111_A_14781238	NC_021167.1	Ca_Kabuli_Chr08	14781238	TT	CC	CC	URR	101507569	uncharacterized LOC101507569
SNP_61112_A_14781264	NC_021167.1	Ca_Kabuli_Chr08	14781264	TT	AA	AA	URR	101507569	uncharacterized LOC101507569
SNP_61113_A_14781265	NC_021167.1	Ca_Kabuli_Chr08	14781265	AA	TT	TT	URR	101507569	uncharacterized LOC101507569
SNP_61114_A_14781302	NC_021167.1	Ca_Kabuli_Chr08	14781302	TT	CC	CC	URR	101507569	uncharacterized LOC101507569
SNP_61115_A_14782240	NC_021167.1	Ca_Kabuli_Chr08	14782240	AA	GG	GG	URR	101507569	uncharacterized LOC101507569
SNP_61116_A_14783282	NC_021167.1	Ca_Kabuli_Chr08	14783282	AA	GG	GG	INTERGENIC		
SNP_61117_A_14783316	NC_021167.1	Ca_Kabuli_Chr08	14783316	TT	CC	CC	INTERGENIC		
SNP_61118_A_14783323	NC_021167.1	Ca_Kabuli_Chr08	14783323	AA	GG	GG	INTERGENIC		
SNP_61120_A_14783383	NC_021167.1	Ca_Kabuli_Chr08	14783383	GG	CC	CC	INTERGENIC		
SNP_61121_A_14785293	NC_021167.1	Ca_Kabuli_Chr08	14785293	GG	AA	AA	INTERGENIC		
SNP_61122_A_14789383	NC_021167.1	Ca_Kabuli_Chr08	14789383	TT	CC	CC	INTERGENIC		
SNP_61123_A_14794077	NC_021167.1	Ca_Kabuli_Chr08	14794077	TT	GG	GG	INTERGENIC		
SNP_61124_A_14803607	NC_021167.1	Ca_Kabuli_Chr08	14803607	GG	AA	AA	INTERGENIC		
SNP_61125_A_14803624	NC_021167.1	Ca_Kabuli_Chr08	14803624	TT	GG	GG	INTERGENIC		
SNP_61126_A_14803643	NC_021167.1	Ca_Kabuli_Chr08	14803643	TT	AA	AA	INTERGENIC		
SNP_61127_A_14803850	NC_021167.1	Ca_Kabuli_Chr08	14803850	CC	TT	TT	INTERGENIC		
SNP_61128_A_14808038	NC_021167.1	Ca_Kabuli_Chr08	14808038	CC	TT	TT	INTERGENIC		
SNP_61130_A_14808823	NC_021167.1	Ca_Kabuli_Chr08	14808823	GG	AA	AA	URR	101508195	nudix hydrolase 20, chloroplastic-like
SNP_61131_A_14813023	NC_021167.1	Ca_Kabuli_Chr08	14813023	AA	CC	CC	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61132_A_14813024	NC_021167.1	Ca_Kabuli_Chr08	14813024	GG	AA	AA	INTRON	101508520	probable strigolactone esterase D14 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61133_A_14813025	NC_021167.1	Ca_Kabuli_Chr08	14813025	CC	TT	TT	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61134_A_14813032	NC_021167.1	Ca_Kabuli_Chr08	14813032	GG	CC	CC	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61135_A_14813038	NC_021167.1	Ca_Kabuli_Chr08	14813038	GG	AA	AA	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61136_A_14813047	NC_021167.1	Ca_Kabuli_Chr08	14813047	AA	CC	CC	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61137_A_14813059	NC_021167.1	Ca_Kabuli_Chr08	14813059	AA	GG	GG	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61138_A_14813071	NC_021167.1	Ca_Kabuli_Chr08	14813071	AA	GG	GG	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61139_A_14813690	NC_021167.1	Ca_Kabuli_Chr08	14813690	TT	CC	CC	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61140_A_14813713	NC_021167.1	Ca_Kabuli_Chr08	14813713	TT	AA	AA	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61141_A_14813714	NC_021167.1	Ca_Kabuli_Chr08	14813714	AA	CC	CC	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61142_A_14814805	NC_021167.1	Ca_Kabuli_Chr08	14814805	AA	GG	GG	INTRON	101508520	probable strigolactone esterase D14 homolog
SNP_61145_A_14821619	NC_021167.1	Ca_Kabuli_Chr08	14821619	TT	CC	CC	INTRON	101508833	fe-S cluster assembly factor HCF101, chloroplastic
SNP_61146_A_14821620	NC_021167.1	Ca_Kabuli_Chr08	14821620	AA	TT	TT	INTRON	101508833	fe-S cluster assembly factor HCF101, chloroplastic
SNP_61147_A_14821644	NC_021167.1	Ca_Kabuli_Chr08	14821644	AA	TT	TT	INTRON	101508833	fe-S cluster assembly factor HCF101, chloroplastic
SNP_61148_A_14824133	NC_021167.1	Ca_Kabuli_Chr08	14824133	AA	GG	GG	SYNONYMOUS_CODING	101508833	fe-S cluster assembly factor HCF101, chloroplastic
SNP_61149_A_14866748	NC_021167.1	Ca_Kabuli_Chr08	14866748	TT	CC	CC	URR	101510668	probable ADP-ribosylation factor GTPase-activating protein AGD14
SNP_61150_A_14883324	NC_021167.1	Ca_Kabuli_Chr08	14883324	GG	AA	AA	INTERGENIC		
SNP_61151_A_14883521	NC_021167.1	Ca_Kabuli_Chr08	14883521	GG	TT	TT	INTERGENIC		
SNP_61152_A_14908726	NC_021167.1	Ca_Kabuli_Chr08	14908726	TT	AA	AA	INTERGENIC		
SNP_61156_A_14941368	NC_021167.1	Ca_Kabuli_Chr08	14941368	TT	CC	CC	INTERGENIC		
SNP_61157_A_14970874	NC_021167.1	Ca_Kabuli_Chr08	14970874	GG	CC	CC	INTRON	101513237	DNA mismatch repair protein MSH7
SNP_61159_A_15022913	NC_021167.1	Ca_Kabuli_Chr08	15022913	TT	CC	CC	INTERGENIC		
SNP_61161_A_15052119	NC_021167.1	Ca_Kabuli_Chr08	15052119	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61162_A_15052701	NC_021167.1	Ca_Kabuli_Chr08	15052701	TT	CC	CC	INTERGENIC		
SNP_61163_A_15053169	NC_021167.1	Ca_Kabuli_Chr08	15053169	TT	GG	GG	INTERGENIC		
SNP_61164_A_15054260	NC_021167.1	Ca_Kabuli_Chr08	15054260	CC	TT	TT	INTERGENIC		
SNP_61165_A_15055797	NC_021167.1	Ca_Kabuli_Chr08	15055797	TT	GG	GG	INTERGENIC		
SNP_61166_A_15154725	NC_021167.1	Ca_Kabuli_Chr08	15154725	AA	CC	CC	INTERGENIC		
SNP_61167_A_15156147	NC_021167.1	Ca_Kabuli_Chr08	15156147	GG	AA	AA	INTERGENIC		
SNP_61168_A_15156319	NC_021167.1	Ca_Kabuli_Chr08	15156319	GG	AA	AA	INTERGENIC		
SNP_61169_A_15162146	NC_021167.1	Ca_Kabuli_Chr08	15162146	AA	GG	GG	INTERGENIC		
SNP_61171_A_15162431	NC_021167.1	Ca_Kabuli_Chr08	15162431	GG	CC	CC	INTERGENIC		
SNP_61172_A_15162474	NC_021167.1	Ca_Kabuli_Chr08	15162474	TT	GG	GG	INTERGENIC		
SNP_61173_A_15162815	NC_021167.1	Ca_Kabuli_Chr08	15162815	GG	TT	TT	INTERGENIC		
SNP_61174_A_15266554	NC_021167.1	Ca_Kabuli_Chr08	15266554	GG	CC	CC	INTERGENIC		
SNP_61175_A_15266718	NC_021167.1	Ca_Kabuli_Chr08	15266718	TT	CC	CC	INTERGENIC		
SNP_61176_A_15294310	NC_021167.1	Ca_Kabuli_Chr08	15294310	GG	AA	AA	URR	101493921	glutathione S-transferase T3-like
SNP_61177_A_15309649	NC_021167.1	Ca_Kabuli_Chr08	15309649	GG	AA	AA	INTERGENIC		
SNP_61178_A_15313912	NC_021167.1	Ca_Kabuli_Chr08	15313912	TT	CC	CC	DRR	101494242	uncharacterized LOC101494242
SNP_61179_A_15314175	NC_021167.1	Ca_Kabuli_Chr08	15314175	AA	GG	GG	DRR	101494242	uncharacterized LOC101494242
SNP_61180_A_15314185	NC_021167.1	Ca_Kabuli_Chr08	15314185	AA	CC	CC	DRR	101494242	uncharacterized LOC101494242
SNP_61181_A_15314322	NC_021167.1	Ca_Kabuli_Chr08	15314322	TT	GG	GG	DRR	101494242	uncharacterized LOC101494242
SNP_61182_A_15314343	NC_021167.1	Ca_Kabuli_Chr08	15314343	GG	AA	AA	DRR	101494242	uncharacterized LOC101494242
SNP_61184_A_15318884	NC_021167.1	Ca_Kabuli_Chr08	15318884	TT	CC	CC	INTRON	101494242	uncharacterized LOC101494242
SNP_61185_A_15348586	NC_021167.1	Ca_Kabuli_Chr08	15348586	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61186_A_15348918	NC_021167.1	Ca_Kabuli_Chr08	15348918	GG	AA	AA	INTERGENIC		
SNP_61187_A_15349031	NC_021167.1	Ca_Kabuli_Chr08	15349031	TT	CC	CC	INTERGENIC		
SNP_61188_A_15349080	NC_021167.1	Ca_Kabuli_Chr08	15349080	AA	GG	GG	INTERGENIC		
SNP_61189_A_15349123	NC_021167.1	Ca_Kabuli_Chr08	15349123	AA	GG	GG	INTERGENIC		
SNP_61190_A_15349141	NC_021167.1	Ca_Kabuli_Chr08	15349141	GG	AA	AA	INTERGENIC		
SNP_61192_A_15416678	NC_021167.1	Ca_Kabuli_Chr08	15416678	GG	TT	TT	INTERGENIC		
SNP_61195_A_15502449	NC_021167.1	Ca_Kabuli_Chr08	15502449	CC	TT	TT	INTERGENIC		
SNP_61196_A_15511932	NC_021167.1	Ca_Kabuli_Chr08	15511932	CC	TT	TT	INTERGENIC		
SNP_61197_A_15532407	NC_021167.1	Ca_Kabuli_Chr08	15532407	TT	CC	CC	INTRON	101506270	casein kinase I-like
SNP_61199_A_15576984	NC_021167.1	Ca_Kabuli_Chr08	15576984	AA	GG	GG	INTRON	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61200_A_15577101	NC_021167.1	Ca_Kabuli_Chr08	15577101	AA	TT	TT	INTRON	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61201_A_15577292	NC_021167.1	Ca_Kabuli_Chr08	15577292	AA	CC	CC	INTRON	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61202_A_15577828	NC_021167.1	Ca_Kabuli_Chr08	15577828	CC	GG	GG	NON_SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61203_A_15577833	NC_021167.1	Ca_Kabuli_Chr08	15577833	CC	AA	AA	NON_SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61204_A_15577841	NC_021167.1	Ca_Kabuli_Chr08	15577841	AA	CC	CC	NON_SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61206_A_15577907	NC_021167.1	Ca_Kabuli_Chr08	15577907	TT	CC	CC	SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61207_A_15578042	NC_021167.1	Ca_Kabuli_Chr08	15578042	CC	TT	TT	SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61208_A_15578303	NC_021167.1	Ca_Kabuli_Chr08	15578303	CC	AA	AA	NON_SYNONYMOUS_CODING	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61209_A_15579015	NC_021167.1	Ca_Kabuli_Chr08	15579015	AA	TT	TT	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61210_A_15579335	NC_021167.1	Ca_Kabuli_Chr08	15579335	GG	TT	TT	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61211_A_15579728	NC_021167.1	Ca_Kabuli_Chr08	15579728	AA	GG	GG	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61212_A_15579799	NC_021167.1	Ca_Kabuli_Chr08	15579799	GG	AA	AA	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61214_A_15580146	NC_021167.1	Ca_Kabuli_Chr08	15580146	TT	CC	CC	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61215_A_15580638	NC_021167.1	Ca_Kabuli_Chr08	15580638	AA	GG	GG	URR	101508734	protein phosphatase 2C and cyclic nucleotide-binding/kinase domain-containing protein
SNP_61216_A_15635459	NC_021167.1	Ca_Kabuli_Chr08	15635459	GG	CC	CC	URR	101510017	lachrymatory-factor synthase-like
SNP_61218_A_15682052	NC_021167.1	Ca_Kabuli_Chr08	15682052	CC	GG	GG	INTERGENIC		
SNP_61219_A_15684918	NC_021167.1	Ca_Kabuli_Chr08	15684918	CC	GG	GG	INTERGENIC		
SNP_61220_A_15685083	NC_021167.1	Ca_Kabuli_Chr08	15685083	TT	CC	CC	INTERGENIC		
SNP_61221_A_15685156	NC_021167.1	Ca_Kabuli_Chr08	15685156	AA	GG	GG	INTERGENIC		
SNP_61223_A_15685308	NC_021167.1	Ca_Kabuli_Chr08	15685308	TT	CC	CC	INTERGENIC		
SNP_61225_A_15685414	NC_021167.1	Ca_Kabuli_Chr08	15685414	CC	TT	TT	INTERGENIC		
SNP_61227_A_15685663	NC_021167.1	Ca_Kabuli_Chr08	15685663	TT	CC	CC	INTERGENIC		
SNP_61228_A_15685773	NC_021167.1	Ca_Kabuli_Chr08	15685773	AA	GG	GG	INTERGENIC		
SNP_61231_A_15685922	NC_021167.1	Ca_Kabuli_Chr08	15685922	GG	CC	CC	INTERGENIC		
SNP_61232_A_15685952	NC_021167.1	Ca_Kabuli_Chr08	15685952	AA	GG	GG	INTERGENIC		
SNP_61233_A_15685957	NC_021167.1	Ca_Kabuli_Chr08	15685957	AA	GG	GG	INTERGENIC		
SNP_61234_A_15685998	NC_021167.1	Ca_Kabuli_Chr08	15685998	AA	GG	GG	INTERGENIC		
SNP_61235_A_15685999	NC_021167.1	Ca_Kabuli_Chr08	15685999	AA	TT	TT	INTERGENIC		
SNP_61236_A_15686000	NC_021167.1	Ca_Kabuli_Chr08	15686000	GG	CC	CC	INTERGENIC		
SNP_61237_A_15686004	NC_021167.1	Ca_Kabuli_Chr08	15686004	AA	TT	TT	INTERGENIC		
SNP_61238_A_15686009	NC_021167.1	Ca_Kabuli_Chr08	15686009	AA	TT	TT	INTERGENIC		
SNP_61241_A_15686012	NC_021167.1	Ca_Kabuli_Chr08	15686012	CC	AA	AA	INTERGENIC		
SNP_61242_A_15686013	NC_021167.1	Ca_Kabuli_Chr08	15686013	TT	AA	AA	INTERGENIC		
SNP_61243_A_15688206	NC_021167.1	Ca_Kabuli_Chr08	15688206	AA	TT	TT	INTRON	101511942	probable RNA-dependent RNA polymerase 5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61244_A_15689022	NC_021167.1	Ca_Kabuli_Chr08	15689022	CC	TT	TT	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61245_A_15689034	NC_021167.1	Ca_Kabuli_Chr08	15689034	CC	TT	TT	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61246_A_15689137	NC_021167.1	Ca_Kabuli_Chr08	15689137	AA	TT	TT	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61247_A_15689376	NC_021167.1	Ca_Kabuli_Chr08	15689376	CC	TT	TT	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61248_A_15689673	NC_021167.1	Ca_Kabuli_Chr08	15689673	AA	CC	CC	NON_SYNONYMOUS_CODING	101511942	probable RNA-dependent RNA polymerase 5
SNP_61249_A_15689741	NC_021167.1	Ca_Kabuli_Chr08	15689741	GG	AA	AA	NON_SYNONYMOUS_CODING	101511942	probable RNA-dependent RNA polymerase 5
SNP_61250_A_15689756	NC_021167.1	Ca_Kabuli_Chr08	15689756	AA	GG	GG	NON_SYNONYMOUS_CODING	101511942	probable RNA-dependent RNA polymerase 5
SNP_61251_A_15691056	NC_021167.1	Ca_Kabuli_Chr08	15691056	TT	CC	CC	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61252_A_15691466	NC_021167.1	Ca_Kabuli_Chr08	15691466	AA	GG	GG	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61253_A_15691700	NC_021167.1	Ca_Kabuli_Chr08	15691700	GG	AA	AA	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61254_A_15692070	NC_021167.1	Ca_Kabuli_Chr08	15692070	GG	AA	AA	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61255_A_15692243	NC_021167.1	Ca_Kabuli_Chr08	15692243	GG	AA	AA	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61256_A_15693803	NC_021167.1	Ca_Kabuli_Chr08	15693803	TT	CC	CC	INTRON	101511942	probable RNA-dependent RNA polymerase 5
SNP_61259_A_15789602	NC_021167.1	Ca_Kabuli_Chr08	15789602	GG	AA	AA	INTERGENIC		
SNP_61260_A_15789746	NC_021167.1	Ca_Kabuli_Chr08	15789746	AA	GG	GG	INTERGENIC		
SNP_61261_A_15790970	NC_021167.1	Ca_Kabuli_Chr08	15790970	CC	TT	TT	INTERGENIC		
SNP_61262_A_15791206	NC_021167.1	Ca_Kabuli_Chr08	15791206	TT	CC	CC	INTERGENIC		
SNP_61263_A_15791360	NC_021167.1	Ca_Kabuli_Chr08	15791360	TT	AA	AA	INTERGENIC		
SNP_61265_A_15802597	NC_021167.1	Ca_Kabuli_Chr08	15802597	TT	CC	CC	INTERGENIC		
SNP_61266_A_15827268	NC_021167.1	Ca_Kabuli_Chr08	15827268	CC	AA	AA	DRR	101489163	hexokinase-1-like
SNP_61268_A_15850375	NC_021167.1	Ca_Kabuli_Chr08	15850375	TT	CC	CC	INTERGENIC		
SNP_61269_A_15850392	NC_021167.1	Ca_Kabuli_Chr08	15850392	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61270_A_15850404	NC_021167.1	Ca_Kabuli_Chr08	15850404	AA	TT	TT	INTERGENIC		
SNP_61271_A_15850493	NC_021167.1	Ca_Kabuli_Chr08	15850493	AA	GG	GG	INTERGENIC		
SNP_61272_A_15850511	NC_021167.1	Ca_Kabuli_Chr08	15850511	AA	GG	GG	INTERGENIC		
SNP_61273_A_15850739	NC_021167.1	Ca_Kabuli_Chr08	15850739	GG	CC	CC	INTERGENIC		
SNP_61274_A_15880767	NC_021167.1	Ca_Kabuli_Chr08	15880767	AA	GG	GG	URR	101490683	uncharacterized LOC101490683
SNP_61275_A_15880994	NC_021167.1	Ca_Kabuli_Chr08	15880994	AA	GG	GG	URR	101490683	uncharacterized LOC101490683
SNP_61276_A_15881040	NC_021167.1	Ca_Kabuli_Chr08	15881040	TT	AA	AA	URR	101490683	uncharacterized LOC101490683
SNP_61277_A_15881083	NC_021167.1	Ca_Kabuli_Chr08	15881083	GG	AA	AA	URR	101490683	uncharacterized LOC101490683
SNP_61279_A_15882028	NC_021167.1	Ca_Kabuli_Chr08	15882028	CC	GG	GG	INTERGENIC		
SNP_61280_A_15882599	NC_021167.1	Ca_Kabuli_Chr08	15882599	GG	AA	AA	INTERGENIC		
SNP_61281_A_15882788	NC_021167.1	Ca_Kabuli_Chr08	15882788	AA	TT	TT	INTERGENIC		
SNP_61282_A_15882790	NC_021167.1	Ca_Kabuli_Chr08	15882790	AA	CC	CC	INTERGENIC		
SNP_61285_A_15891703	NC_021167.1	Ca_Kabuli_Chr08	15891703	GG	AA	AA	INTERGENIC		
SNP_61286_A_15892340	NC_021167.1	Ca_Kabuli_Chr08	15892340	GG	TT	TT	INTERGENIC		
SNP_61287_A_15892388	NC_021167.1	Ca_Kabuli_Chr08	15892388	TT	CC	CC	INTERGENIC		
SNP_61288_A_15892468	NC_021167.1	Ca_Kabuli_Chr08	15892468	CC	GG	GG	INTERGENIC		
SNP_61289_A_15892506	NC_021167.1	Ca_Kabuli_Chr08	15892506	GG	TT	TT	INTERGENIC		
SNP_61290_A_15892608	NC_021167.1	Ca_Kabuli_Chr08	15892608	TT	CC	CC	INTERGENIC		
SNP_61291_A_15892746	NC_021167.1	Ca_Kabuli_Chr08	15892746	CC	AA	AA	INTERGENIC		
SNP_61293_A_15892808	NC_021167.1	Ca_Kabuli_Chr08	15892808	TT	GG	GG	INTERGENIC		
SNP_61294_A_15895767	NC_021167.1	Ca_Kabuli_Chr08	15895767	AA	TT	TT	INTERGENIC		
SNP_61295_A_15895779	NC_021167.1	Ca_Kabuli_Chr08	15895779	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61296_A_15895810	NC_021167.1	Ca_Kabuli_Chr08	15895810	GG	AA	AA	INTERGENIC		
SNP_61297_A_15896010	NC_021167.1	Ca_Kabuli_Chr08	15896010	TT	AA	AA	INTERGENIC		
SNP_61298_A_15896202	NC_021167.1	Ca_Kabuli_Chr08	15896202	AA	TT	TT	INTERGENIC		
SNP_61299_A_15896219	NC_021167.1	Ca_Kabuli_Chr08	15896219	GG	AA	AA	INTERGENIC		
SNP_61300_A_15896356	NC_021167.1	Ca_Kabuli_Chr08	15896356	AA	GG	GG	INTERGENIC		
SNP_61301_A_15897593	NC_021167.1	Ca_Kabuli_Chr08	15897593	AA	GG	GG	INTERGENIC		
SNP_61302_A_15897753	NC_021167.1	Ca_Kabuli_Chr08	15897753	CC	AA	AA	INTERGENIC		
SNP_61303_A_15897932	NC_021167.1	Ca_Kabuli_Chr08	15897932	CC	TT	TT	INTERGENIC		
SNP_61304_A_15899251	NC_021167.1	Ca_Kabuli_Chr08	15899251	CC	GG	GG	INTERGENIC		
SNP_61305_A_15899257	NC_021167.1	Ca_Kabuli_Chr08	15899257	GG	CC	CC	INTERGENIC		
SNP_61307_A_15918519	NC_021167.1	Ca_Kabuli_Chr08	15918519	AA	CC	CC	INTERGENIC		
SNP_61308_A_15918537	NC_021167.1	Ca_Kabuli_Chr08	15918537	GG	AA	AA	INTERGENIC		
SNP_61310_A_15921425	NC_021167.1	Ca_Kabuli_Chr08	15921425	CC	TT	TT	NON_SYNONYMOUS_CODING	101488260	uncharacterized LOC101488260
SNP_61311_A_15921617	NC_021167.1	Ca_Kabuli_Chr08	15921617	AA	GG	GG	NON_SYNONYMOUS_CODING	101488260	uncharacterized LOC101488260
SNP_61312_A_15926061	NC_021167.1	Ca_Kabuli_Chr08	15926061	TT	CC	CC	INTERGENIC		
SNP_61313_A_15930288	NC_021167.1	Ca_Kabuli_Chr08	15930288	AA	GG	GG	INTERGENIC		
SNP_61314_A_15972217	NC_021167.1	Ca_Kabuli_Chr08	15972217	TT	AA	AA	INTERGENIC		
SNP_61315_A_15972283	NC_021167.1	Ca_Kabuli_Chr08	15972283	AA	CC	CC	INTERGENIC		
SNP_61316_A_15972322	NC_021167.1	Ca_Kabuli_Chr08	15972322	CC	TT	TT	INTERGENIC		
SNP_61317_A_15972397	NC_021167.1	Ca_Kabuli_Chr08	15972397	CC	TT	TT	INTERGENIC		
SNP_61318_A_15972407	NC_021167.1	Ca_Kabuli_Chr08	15972407	TT	AA	AA	INTERGENIC		
SNP_61319_A_15972493	NC_021167.1	Ca_Kabuli_Chr08	15972493	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61320_A_15972502	NC_021167.1	Ca_Kabuli_Chr08	15972502	CC	AA	AA	INTERGENIC		
SNP_61321_A_15972510	NC_021167.1	Ca_Kabuli_Chr08	15972510	TT	AA	AA	INTERGENIC		
SNP_61322_A_15972680	NC_021167.1	Ca_Kabuli_Chr08	15972680	AA	TT	TT	INTERGENIC		
SNP_61323_A_15972683	NC_021167.1	Ca_Kabuli_Chr08	15972683	TT	CC	CC	INTERGENIC		
SNP_61324_A_15972684	NC_021167.1	Ca_Kabuli_Chr08	15972684	CC	AA	AA	INTERGENIC		
SNP_61325_A_15972686	NC_021167.1	Ca_Kabuli_Chr08	15972686	AA	GG	GG	INTERGENIC		
SNP_61326_A_15972754	NC_021167.1	Ca_Kabuli_Chr08	15972754	GG	AA	AA	INTERGENIC		
SNP_61327_A_15972759	NC_021167.1	Ca_Kabuli_Chr08	15972759	GG	AA	AA	INTERGENIC		
SNP_61328_A_15972768	NC_021167.1	Ca_Kabuli_Chr08	15972768	AA	CC	CC	INTERGENIC		
SNP_61329_A_15972809	NC_021167.1	Ca_Kabuli_Chr08	15972809	AA	GG	GG	INTERGENIC		
SNP_61330_A_15972816	NC_021167.1	Ca_Kabuli_Chr08	15972816	TT	AA	AA	INTERGENIC		
SNP_61331_A_15972837	NC_021167.1	Ca_Kabuli_Chr08	15972837	AA	CC	CC	INTERGENIC		
SNP_61332_A_15972856	NC_021167.1	Ca_Kabuli_Chr08	15972856	GG	TT	TT	INTERGENIC		
SNP_61333_A_15972910	NC_021167.1	Ca_Kabuli_Chr08	15972910	AA	GG	GG	INTERGENIC		
SNP_61334_A_15972917	NC_021167.1	Ca_Kabuli_Chr08	15972917	AA	GG	GG	INTERGENIC		
SNP_61335_A_15999059	NC_021167.1	Ca_Kabuli_Chr08	15999059	CC	TT	TT	URR	101494345	30S ribosomal protein 3, chloroplastic-like
SNP_61336_A_16058386	NC_021167.1	Ca_Kabuli_Chr08	16058386	GG	AA	AA	INTERGENIC		
SNP_61338_A_16204215	NC_021167.1	Ca_Kabuli_Chr08	16204215	CC	TT	TT	DRR	101489589	uncharacterized LOC101489589
SNP_61339_A_16212786	NC_021167.1	Ca_Kabuli_Chr08	16212786	TT	GG	GG	URR	101489907	uncharacterized LOC101489907
SNP_61340_A_16213270	NC_021167.1	Ca_Kabuli_Chr08	16213270	TT	CC	CC	INTERGENIC		
SNP_61341_A_16213280	NC_021167.1	Ca_Kabuli_Chr08	16213280	GG	TT	TT	INTERGENIC		
SNP_61342_A_16213286	NC_021167.1	Ca_Kabuli_Chr08	16213286	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61343_A_16252788	NC_021167.1	Ca_Kabuli_Chr08	16252788	AA	CC	CC	INTERGENIC		
SNP_61344_A_16292785	NC_021167.1	Ca_Kabuli_Chr08	16292785	AA	TT	TT	URR	101490243	probable cation transporter HKT6
SNP_61345_A_16293020	NC_021167.1	Ca_Kabuli_Chr08	16293020	AA	GG	GG	URR	101490243	probable cation transporter HKT6
SNP_61346_A_16314817	NC_021167.1	Ca_Kabuli_Chr08	16314817	AA	TT	TT	INTERGENIC		
SNP_61347_A_16314828	NC_021167.1	Ca_Kabuli_Chr08	16314828	AA	GG	GG	INTERGENIC		
SNP_61348_A_16314906	NC_021167.1	Ca_Kabuli_Chr08	16314906	AA	GG	GG	INTERGENIC		
SNP_61352_A_16315165	NC_021167.1	Ca_Kabuli_Chr08	16315165	AA	GG	GG	INTERGENIC		
SNP_61353_A_16315186	NC_021167.1	Ca_Kabuli_Chr08	16315186	GG	TT	TT	INTERGENIC		
SNP_61354_A_16315233	NC_021167.1	Ca_Kabuli_Chr08	16315233	CC	TT	TT	INTERGENIC		
SNP_61355_A_16315267	NC_021167.1	Ca_Kabuli_Chr08	16315267	GG	TT	TT	INTERGENIC		
SNP_61356_A_16316012	NC_021167.1	Ca_Kabuli_Chr08	16316012	TT	AA	AA	INTERGENIC		
SNP_61358_A_16316436	NC_021167.1	Ca_Kabuli_Chr08	16316436	TT	AA	AA	INTERGENIC		
SNP_61359_A_16316556	NC_021167.1	Ca_Kabuli_Chr08	16316556	AA	TT	TT	INTERGENIC		
SNP_61360_A_16316625	NC_021167.1	Ca_Kabuli_Chr08	16316625	CC	TT	TT	INTERGENIC		
SNP_61361_A_16316721	NC_021167.1	Ca_Kabuli_Chr08	16316721	TT	CC	CC	INTERGENIC		
SNP_61362_A_16316747	NC_021167.1	Ca_Kabuli_Chr08	16316747	TT	GG	GG	INTERGENIC		
SNP_61363_A_16316780	NC_021167.1	Ca_Kabuli_Chr08	16316780	GG	AA	AA	INTERGENIC		
SNP_61364_A_16326357	NC_021167.1	Ca_Kabuli_Chr08	16326357	TT	CC	CC	INTERGENIC		
SNP_61365_A_16326979	NC_021167.1	Ca_Kabuli_Chr08	16326979	TT	CC	CC	INTERGENIC		
SNP_61367_A_16463569	NC_021167.1	Ca_Kabuli_Chr08	16463569	CC	TT	TT	INTERGENIC		
SNP_61368_A_16463581	NC_021167.1	Ca_Kabuli_Chr08	16463581	AA	GG	GG	INTERGENIC		
SNP_61369_A_16463593	NC_021167.1	Ca_Kabuli_Chr08	16463593	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61370_A_16463626	NC_021167.1	Ca_Kabuli_Chr08	16463626	AA	GG	GG	INTERGENIC			
SNP_61371_A_16463638	NC_021167.1	Ca_Kabuli_Chr08	16463638	AA	GG	GG	INTERGENIC			
SNP_61372_A_16463644	NC_021167.1	Ca_Kabuli_Chr08	16463644	AA	TT	TT	INTERGENIC			
SNP_61373_A_16463680	NC_021167.1	Ca_Kabuli_Chr08	16463680	AA	TT	TT	INTERGENIC			
SNP_61374_A_16463686	NC_021167.1	Ca_Kabuli_Chr08	16463686	AA	GG	GG	INTERGENIC			
SNP_61375_A_16463695	NC_021167.1	Ca_Kabuli_Chr08	16463695	TT	GG	GG	INTERGENIC			
SNP_61376_A_16463701	NC_021167.1	Ca_Kabuli_Chr08	16463701	AA	TT	TT	INTERGENIC			
SNP_61377_A_16463733	NC_021167.1	Ca_Kabuli_Chr08	16463733	AA	GG	GG	INTERGENIC			
SNP_61378_A_16463743	NC_021167.1	Ca_Kabuli_Chr08	16463743	AA	TT	TT	INTERGENIC			
SNP_61379_A_16463764	NC_021167.1	Ca_Kabuli_Chr08	16463764	AA	GG	GG	INTERGENIC			
SNP_61380_A_16463794	NC_021167.1	Ca_Kabuli_Chr08	16463794	GG	TT	TT	INTERGENIC			
SNP_61381_A_16463797	NC_021167.1	Ca_Kabuli_Chr08	16463797	TT	AA	AA	INTERGENIC			
SNP_61382_A_16463873	NC_021167.1	Ca_Kabuli_Chr08	16463873	CC	TT	TT	INTERGENIC			
SNP_61383_A_16463964	NC_021167.1	Ca_Kabuli_Chr08	16463964	AA	TT	TT	INTERGENIC			
SNP_61384_A_16463984	NC_021167.1	Ca_Kabuli_Chr08	16463984	GG	AA	AA	INTERGENIC			
SNP_61385_A_16463991	NC_021167.1	Ca_Kabuli_Chr08	16463991	CC	AA	AA	INTERGENIC			
SNP_61386_A_16463992	NC_021167.1	Ca_Kabuli_Chr08	16463992	AA	TT	TT	INTERGENIC			
SNP_61387_A_16465023	NC_021167.1	Ca_Kabuli_Chr08	16465023	AA	GG	GG	INTERGENIC			
SNP_61388_A_3888	NW_004515637.1	scaffold2	3888	AA	CC	CC	INTERGENIC			
SNP_61389_A_4076	NW_004515637.1	scaffold2	4076	TT	CC	CC	INTERGENIC			
SNP_61390_A_4079	NW_004515637.1	scaffold2	4079	AA	GG	GG	INTERGENIC			
SNP_61391_A_4100	NW_004515637.1	scaffold2	4100	AA	GG	GG	INTERGENIC			

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SNP_61392_A_4124	NW_004515637.1	scaffold2	4124	CC	AA	AA	INTERGENIC			
SNP_61393_A_4132	NW_004515637.1	scaffold2	4132	GG	AA	AA	INTERGENIC			
SNP_61394_A_8125	NW_004515637.1	scaffold2	8125	TT	CC	CC	INTERGENIC			
SNP_61395_A_8165	NW_004515637.1	scaffold2	8165	TT	CC	CC	INTERGENIC			
SNP_61396_A_8177	NW_004515637.1	scaffold2	8177	CC	TT	TT	INTERGENIC			
SNP_61397_A_8192	NW_004515637.1	scaffold2	8192	CC	TT	TT	INTERGENIC			
SNP_61398_A_8258	NW_004515637.1	scaffold2	8258	AA	GG	GG	INTERGENIC			
SNP_61399_A_8370	NW_004515637.1	scaffold2	8370	CC	TT	TT	INTERGENIC			
SNP_61400_A_8423	NW_004515637.1	scaffold2	8423	GG	TT	TT	INTERGENIC			
SNP_61401_A_8948	NW_004515637.1	scaffold2	8948	TT	AA	AA	INTERGENIC			
SNP_61402_A_8950	NW_004515637.1	scaffold2	8950	CC	TT	TT	INTERGENIC			
SNP_61403_A_9922	NW_004515637.1	scaffold2	9922	GG	AA	AA	INTERGENIC			
SNP_61405_A_18932	NW_004515637.1	scaffold2	18932	TT	AA	AA	INTERGENIC			
SNP_61406_A_18934	NW_004515637.1	scaffold2	18934	CC	AA	AA	INTERGENIC			
SNP_61409_A_69827	NW_004515637.1	scaffold2	69827	CC	TT	TT	INTERGENIC			
SNP_61411_A_70024	NW_004515637.1	scaffold2	70024	CC	GG	GG	INTERGENIC			
SNP_61412_A_70280	NW_004515637.1	scaffold2	70280	AA	GG	GG	INTERGENIC			
SNP_61414_A_71746	NW_004515637.1	scaffold2	71746	AA	GG	GG	INTERGENIC			
SNP_61415_A_71816	NW_004515637.1	scaffold2	71816	TT	CC	CC	INTERGENIC			
SNP_61416_A_71834	NW_004515637.1	scaffold2	71834	AA	CC	CC	INTERGENIC			
SNP_61417_A_83657	NW_004515637.1	scaffold2	83657	TT	CC	CC	INTERGENIC			
SNP_61418_A_83835	NW_004515637.1	scaffold2	83835	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61419_A_83863	NW_004515637.1	scaffold2	83863	GG	AA	AA	INTERGENIC			
SNP_61420_A_103927	NW_004515637.1	scaffold2	103927	CC	TT	TT	INTERGENIC			
SNP_61421_A_103938	NW_004515637.1	scaffold2	103938	TT	CC	CC	INTERGENIC			
SNP_61422_A_103982	NW_004515637.1	scaffold2	103982	TT	CC	CC	INTERGENIC			
SNP_61423_A_103996	NW_004515637.1	scaffold2	103996	CC	TT	TT	INTERGENIC			
SNP_61424_A_144554	NW_004515637.1	scaffold2	144554	AA	CC	CC	INTERGENIC			
SNP_61425_A_169521	NW_004515637.1	scaffold2	169521	CC	TT	TT	INTERGENIC			
SNP_61426_A_200217	NW_004515637.1	scaffold2	200217	AA	GG	GG	INTERGENIC			
SNP_61427_A_207920	NW_004515637.1	scaffold2	207920	TT	AA	AA	INTERGENIC			
SNP_61428_A_210602	NW_004515637.1	scaffold2	210602	AA	GG	GG	INTERGENIC			
SNP_61429_A_210691	NW_004515637.1	scaffold2	210691	AA	GG	GG	INTERGENIC			
SNP_61430_A_211903	NW_004515637.1	scaffold2	211903	TT	CC	CC	INTERGENIC			
SNP_61431_A_211930	NW_004515637.1	scaffold2	211930	GG	CC	CC	INTERGENIC			
SNP_61432_A_211988	NW_004515637.1	scaffold2	211988	TT	CC	CC	INTERGENIC			
SNP_61433_A_212230	NW_004515637.1	scaffold2	212230	GG	TT	TT	INTERGENIC			
SNP_61434_A_212382	NW_004515637.1	scaffold2	212382	AA	GG	GG	INTERGENIC			
SNP_61435_A_221738	NW_004515637.1	scaffold2	221738	AA	GG	GG	INTERGENIC			
SNP_61436_A_239265	NW_004515637.1	scaffold2	239265	CC	TT	TT	INTERGENIC			
SNP_61437_A_281539	NW_004515637.1	scaffold2	281539	GG	AA	AA	INTERGENIC			
SNP_61438_A_286943	NW_004515637.1	scaffold2	286943	AA	GG	GG	INTERGENIC			
SNP_61439_A_300992	NW_004515637.1	scaffold2	300992	TT	AA	AA	INTERGENIC			
SNP_61440_A_308792	NW_004515637.1	scaffold2	308792	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61441_A_317158	NW_004515637.1	scaffold2	317158	GG	TT	TT	INTERGENIC		
SNP_61442_A_344753	NW_004515637.1	scaffold2	344753	TT	AA	AA	INTRON	101492279	ATP-dependent DNA helicase 2 subunit KU80-like
SNP_61443_A_353790	NW_004515637.1	scaffold2	353790	TT	CC	CC	INTERGENIC		
SNP_61444_A_353810	NW_004515637.1	scaffold2	353810	GG	CC	CC	INTERGENIC		
SNP_61445_A_353945	NW_004515637.1	scaffold2	353945	TT	CC	CC	INTERGENIC		
SNP_61447_A_368803	NW_004515637.1	scaffold2	368803	CC	TT	TT	URR	101491946	uncharacterized LOC101491946
SNP_61448_A_402757	NW_004515637.1	scaffold2	402757	AA	GG	GG	INTERGENIC		
SNP_61449_A_407740	NW_004515637.1	scaffold2	407740	TT	GG	GG	INTERGENIC		
SNP_61450_A_408001	NW_004515637.1	scaffold2	408001	TT	CC	CC	INTERGENIC		
SNP_61451_A_408027	NW_004515637.1	scaffold2	408027	GG	AA	AA	INTERGENIC		
SNP_61452_A_408033	NW_004515637.1	scaffold2	408033	TT	CC	CC	INTERGENIC		
SNP_61453_A_408069	NW_004515637.1	scaffold2	408069	AA	TT	TT	INTERGENIC		
SNP_61454_A_408119	NW_004515637.1	scaffold2	408119	TT	CC	CC	INTERGENIC		
SNP_61455_A_408122	NW_004515637.1	scaffold2	408122	AA	CC	CC	INTERGENIC		
SNP_61456_A_408132	NW_004515637.1	scaffold2	408132	TT	GG	GG	INTERGENIC		
SNP_61457_A_411152	NW_004515637.1	scaffold2	411152	TT	GG	GG	INTERGENIC		
SNP_61458_A_411543	NW_004515637.1	scaffold2	411543	AA	GG	GG	INTERGENIC		
SNP_61459_A_411742	NW_004515637.1	scaffold2	411742	CC	TT	TT	INTERGENIC		
SNP_61460_A_412519	NW_004515637.1	scaffold2	412519	CC	TT	TT	INTERGENIC		
SNP_61461_A_442717	NW_004515637.1	scaffold2	442717	AA	GG	GG	URR	101492950	proteasome subunit beta type-1-like
SNP_61462_A_445442	NW_004515637.1	scaffold2	445442	CC	TT	TT	URR	101493283	pentatricopeptide repeat-containing protein At1g09220, mitochondrial-like
SNP_61463_A_470547	NW_004515637.1	scaffold2	470547	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61464_A_472745	NW_004515637.1	scaffold2	472745	TT	CC	CC	INTERGENIC			
SNP_61465_A_500364	NW_004515637.1	scaffold2	500364	GG	TT	TT	INTERGENIC			
SNP_61466_A_504086	NW_004515637.1	scaffold2	504086	CC	TT	TT	INTERGENIC			
SNP_61467_A_504093	NW_004515637.1	scaffold2	504093	CC	TT	TT	INTERGENIC			
SNP_61468_A_505961	NW_004515637.1	scaffold2	505961	TT	CC	CC	INTERGENIC			
SNP_61470_A_540882	NW_004515637.1	scaffold2	540882	GG	CC	CC	INTERGENIC			
SNP_61471_A_1496	NW_004515638.1	scaffold5	1496	AA	CC	CC	INTERGENIC			
SNP_61472_A_1542	NW_004515638.1	scaffold5	1542	AA	GG	GG	INTERGENIC			
SNP_61473_A_1565	NW_004515638.1	scaffold5	1565	AA	GG	GG	INTERGENIC			
SNP_61475_A_5498	NW_004515638.1	scaffold5	5498	TT	CC	CC	INTERGENIC			
SNP_61476_A_5948	NW_004515638.1	scaffold5	5948	AA	GG	GG	INTERGENIC			
SNP_61477_A_17486	NW_004515638.1	scaffold5	17486	TT	CC	CC	INTERGENIC			
SNP_61478_A_2090	NW_004515639.1	scaffold7	2090	TT	AA	AA	INTERGENIC			
SNP_61479_A_13473	NW_004515639.1	scaffold7	13473	AA	TT	TT	INTERGENIC			
SNP_61480_A_13474	NW_004515639.1	scaffold7	13474	AA	CC	CC	INTERGENIC			
SNP_61481_A_13477	NW_004515639.1	scaffold7	13477	TT	CC	CC	INTERGENIC			
SNP_61482_A_13487	NW_004515639.1	scaffold7	13487	GG	CC	CC	INTERGENIC			
SNP_61483_A_34919	NW_004515639.1	scaffold7	34919	TT	CC	CC	INTERGENIC			
SNP_61484_A_35156	NW_004515639.1	scaffold7	35156	TT	CC	CC	INTERGENIC			
SNP_61485_A_50232	NW_004515639.1	scaffold7	50232	TT	CC	CC	INTERGENIC			
SNP_61486_A_50486	NW_004515639.1	scaffold7	50486	GG	AA	AA	INTERGENIC			
SNP_61487_A_50492	NW_004515639.1	scaffold7	50492	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61488_A_50519	NW_004515639.1	scaffold7	50519	CC	GG	GG	INTERGENIC		
SNP_61489_A_79369	NW_004515639.1	scaffold7	79369	AA	GG	GG	INTERGENIC		
SNP_61490_A_79381	NW_004515639.1	scaffold7	79381	GG	CC	CC	INTERGENIC		
SNP_61491_A_79393	NW_004515639.1	scaffold7	79393	TT	CC	CC	INTERGENIC		
SNP_61492_A_79497	NW_004515639.1	scaffold7	79497	TT	AA	AA	INTERGENIC		
SNP_61493_A_169671	NW_004515639.1	scaffold7	169671	AA	TT	TT	INTERGENIC		
SNP_61494_A_169789	NW_004515639.1	scaffold7	169789	AA	GG	GG	INTERGENIC		
SNP_61495_A_170154	NW_004515639.1	scaffold7	170154	TT	CC	CC	INTERGENIC		
SNP_61496_A_170195	NW_004515639.1	scaffold7	170195	AA	CC	CC	INTERGENIC		
SNP_61497_A_170228	NW_004515639.1	scaffold7	170228	TT	CC	CC	INTERGENIC		
SNP_61498_A_170269	NW_004515639.1	scaffold7	170269	AA	GG	GG	INTERGENIC		
SNP_61499_A_170303	NW_004515639.1	scaffold7	170303	AA	TT	TT	INTERGENIC		
SNP_61500_A_170426	NW_004515639.1	scaffold7	170426	TT	AA	AA	INTERGENIC		
SNP_61501_A_170445	NW_004515639.1	scaffold7	170445	TT	CC	CC	INTERGENIC		
SNP_61502_A_170456	NW_004515639.1	scaffold7	170456	AA	GG	GG	INTERGENIC		
SNP_61503_A_170476	NW_004515639.1	scaffold7	170476	CC	TT	TT	INTERGENIC		
SNP_61504_A_170492	NW_004515639.1	scaffold7	170492	TT	CC	CC	INTERGENIC		
SNP_61505_A_170515	NW_004515639.1	scaffold7	170515	CC	TT	TT	INTERGENIC		
SNP_61506_A_190326	NW_004515639.1	scaffold7	190326	CC	TT	TT	URR	101494868	uncharacterized protein At1g04910-like
SNP_61507_A_190528	NW_004515639.1	scaffold7	190528	TT	CC	CC	URR	101494868	uncharacterized protein At1g04910-like
SNP_61508_A_190553	NW_004515639.1	scaffold7	190553	TT	CC	CC	URR	101494868	uncharacterized protein At1g04910-like
SNP_61509_A_210748	NW_004515639.1	scaffold7	210748	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61510_A_210751	NW_004515639.1	scaffold7	210751	TT	CC	CC	INTERGENIC			
SNP_61511_A_210769	NW_004515639.1	scaffold7	210769	AA	CC	CC	INTERGENIC			
SNP_61512_A_210782	NW_004515639.1	scaffold7	210782	TT	CC	CC	INTERGENIC			
SNP_61513_A_214542	NW_004515639.1	scaffold7	214542	CC	AA	AA	INTERGENIC			
SNP_61514_A_214546	NW_004515639.1	scaffold7	214546	CC	AA	AA	INTERGENIC			
SNP_61516_A_215351	NW_004515639.1	scaffold7	215351	TT	CC	CC	INTERGENIC			
SNP_61517_A_215374	NW_004515639.1	scaffold7	215374	GG	AA	AA	INTERGENIC			
SNP_61518_A_216613	NW_004515639.1	scaffold7	216613	CC	TT	TT	INTERGENIC			
SNP_61519_A_247205	NW_004515639.1	scaffold7	247205	TT	CC	CC	INTERGENIC			
SNP_61520_A_247327	NW_004515639.1	scaffold7	247327	GG	AA	AA	INTERGENIC			
SNP_61521_A_247347	NW_004515639.1	scaffold7	247347	CC	TT	TT	INTERGENIC			
SNP_61522_A_247349	NW_004515639.1	scaffold7	247349	GG	AA	AA	INTERGENIC			
SNP_61523_A_247413	NW_004515639.1	scaffold7	247413	TT	AA	AA	INTERGENIC			
SNP_61524_A_254693	NW_004515639.1	scaffold7	254693	AA	GG	GG	INTERGENIC			
SNP_61525_A_254724	NW_004515639.1	scaffold7	254724	TT	CC	CC	INTERGENIC			
SNP_61526_A_254883	NW_004515639.1	scaffold7	254883	AA	GG	GG	INTERGENIC			
SNP_61527_A_255130	NW_004515639.1	scaffold7	255130	GG	TT	TT	INTERGENIC			
SNP_61528_A_255148	NW_004515639.1	scaffold7	255148	TT	CC	CC	INTERGENIC			
SNP_61529_A_255206	NW_004515639.1	scaffold7	255206	TT	CC	CC	INTERGENIC			
SNP_61530_A_255261	NW_004515639.1	scaffold7	255261	TT	CC	CC	INTERGENIC			
SNP_61531_A_273442	NW_004515639.1	scaffold7	273442	AA	GG	GG	INTERGENIC			
SNP_61532_A_273446	NW_004515639.1	scaffold7	273446	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61533_A_273473	NW_004515639.1	scaffold7	273473	TT	CC	CC	INTERGENIC			
SNP_61534_A_273489	NW_004515639.1	scaffold7	273489	TT	CC	CC	INTERGENIC			
SNP_61535_A_273811	NW_004515639.1	scaffold7	273811	AA	GG	GG	INTERGENIC			
SNP_61536_A_274011	NW_004515639.1	scaffold7	274011	TT	GG	GG	INTERGENIC			
SNP_61537_A_274038	NW_004515639.1	scaffold7	274038	GG	AA	AA	INTERGENIC			
SNP_61538_A_274049	NW_004515639.1	scaffold7	274049	TT	GG	GG	INTERGENIC			
SNP_61539_A_274147	NW_004515639.1	scaffold7	274147	AA	CC	CC	INTERGENIC			
SNP_61540_A_274275	NW_004515639.1	scaffold7	274275	TT	AA	AA	INTERGENIC			
SNP_61541_A_2005	NW_004515640.1	scaffold9	2005	CC	TT	TT	INTERGENIC			
SNP_61542_A_8572	NW_004515640.1	scaffold9	8572	AA	CC	CC	INTERGENIC			
SNP_61543_A_8663	NW_004515640.1	scaffold9	8663	CC	TT	TT	INTERGENIC			
SNP_61544_A_8691	NW_004515640.1	scaffold9	8691	TT	CC	CC	INTERGENIC			
SNP_61545_A_8698	NW_004515640.1	scaffold9	8698	AA	TT	TT	INTERGENIC			
SNP_61546_A_12609	NW_004515640.1	scaffold9	12609	CC	TT	TT	INTERGENIC			
SNP_61547_A_22315	NW_004515640.1	scaffold9	22315	TT	GG	GG	INTERGENIC			
SNP_61548_A_34558	NW_004515640.1	scaffold9	34558	GG	TT	TT	INTERGENIC			
SNP_61549_A_34564	NW_004515640.1	scaffold9	34564	AA	GG	GG	INTERGENIC			
SNP_61551_A_34943	NW_004515640.1	scaffold9	34943	TT	AA	AA	INTERGENIC			
SNP_61552_A_35106	NW_004515640.1	scaffold9	35106	TT	AA	AA	INTERGENIC			
SNP_61553_A_76369	NW_004515640.1	scaffold9	76369	GG	AA	AA	INTERGENIC			
SNP_61554_A_76398	NW_004515640.1	scaffold9	76398	AA	CC	CC	INTERGENIC			
SNP_61555_A_76412	NW_004515640.1	scaffold9	76412	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61556_A_76908	NW_004515640.1	scaffold9	76908	GG	AA	AA	INTERGENIC		
SNP_61557_A_76965	NW_004515640.1	scaffold9	76965	AA	GG	GG	INTERGENIC		
SNP_61558_A_94203	NW_004515640.1	scaffold9	94203	GG	AA	AA	INTERGENIC		
SNP_61559_A_94207	NW_004515640.1	scaffold9	94207	TT	AA	AA	INTERGENIC		
SNP_61560_A_97339	NW_004515640.1	scaffold9	97339	TT	GG	GG	INTERGENIC		
SNP_61561_A_97386	NW_004515640.1	scaffold9	97386	GG	AA	AA	INTERGENIC		
SNP_61562_A_97444	NW_004515640.1	scaffold9	97444	TT	CC	CC	INTERGENIC		
SNP_61563_A_97603	NW_004515640.1	scaffold9	97603	GG	AA	AA	INTERGENIC		
SNP_61564_A_97606	NW_004515640.1	scaffold9	97606	TT	CC	CC	INTERGENIC		
SNP_61565_A_97638	NW_004515640.1	scaffold9	97638	CC	TT	TT	INTERGENIC		
SNP_61566_A_8732	NW_004515641.1	scaffold10	8732	CC	TT	TT	DRR	101497921	uncharacterized LOC101497921
SNP_61567_A_19910	NW_004515641.1	scaffold10	19910	CC	TT	TT	URR	101497921	uncharacterized LOC101497921
SNP_61568_A_23757	NW_004515641.1	scaffold10	23757	TT	CC	CC	INTERGENIC		
SNP_61569_A_34142	NW_004515641.1	scaffold10	34142	TT	AA	AA	INTERGENIC		
SNP_61570_A_34624	NW_004515641.1	scaffold10	34624	CC	TT	TT	INTERGENIC		
SNP_61571_A_34629	NW_004515641.1	scaffold10	34629	CC	TT	TT	INTERGENIC		
SNP_61572_A_34670	NW_004515641.1	scaffold10	34670	GG	CC	CC	INTERGENIC		
SNP_61573_A_34673	NW_004515641.1	scaffold10	34673	GG	AA	AA	INTERGENIC		
SNP_61574_A_34708	NW_004515641.1	scaffold10	34708	AA	TT	TT	INTERGENIC		
SNP_61575_A_34724	NW_004515641.1	scaffold10	34724	AA	GG	GG	INTERGENIC		
SNP_61576_A_63918	NW_004515641.1	scaffold10	63918	GG	CC	CC	INTERGENIC		
SNP_61578_A_70781	NW_004515641.1	scaffold10	70781	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61579_A_87374	NW_004515641.1	scaffold10	87374	CC	TT	TT	URR	101498575	uncharacterized LOC101498575
SNP_61580_A_87377	NW_004515641.1	scaffold10	87377	GG	TT	TT	URR	101498575	uncharacterized LOC101498575
SNP_61581_A_87401	NW_004515641.1	scaffold10	87401	TT	CC	CC	URR	101498575	uncharacterized LOC101498575
SNP_61582_A_87411	NW_004515641.1	scaffold10	87411	TT	CC	CC	URR	101498575	uncharacterized LOC101498575
SNP_61583_A_87424	NW_004515641.1	scaffold10	87424	AA	GG	GG	URR	101498575	uncharacterized LOC101498575
SNP_61584_A_87462	NW_004515641.1	scaffold10	87462	CC	AA	AA	URR	101498575	uncharacterized LOC101498575
SNP_61585_A_87494	NW_004515641.1	scaffold10	87494	AA	GG	GG	URR	101498575	uncharacterized LOC101498575
SNP_61586_A_87763	NW_004515641.1	scaffold10	87763	AA	GG	GG	URR	101498575	uncharacterized LOC101498575
SNP_61587_A_87818	NW_004515641.1	scaffold10	87818	AA	GG	GG	URR	101498575	uncharacterized LOC101498575
SNP_61588_A_87907	NW_004515641.1	scaffold10	87907	TT	CC	CC	URR	101498575	uncharacterized LOC101498575
SNP_61589_A_91491	NW_004515641.1	scaffold10	91491	TT	AA	AA	URR	101498911	uncharacterized LOC101498911
SNP_61590_A_91517	NW_004515641.1	scaffold10	91517	TT	CC	CC	URR	101498911	uncharacterized LOC101498911
SNP_61591_A_91561	NW_004515641.1	scaffold10	91561	CC	TT	TT	URR	101498911	uncharacterized LOC101498911
SNP_61592_A_91619	NW_004515641.1	scaffold10	91619	GG	TT	TT	URR	101498911	uncharacterized LOC101498911
SNP_61593_A_91669	NW_004515641.1	scaffold10	91669	TT	AA	AA	URR	101498911	uncharacterized LOC101498911
SNP_61594_A_91720	NW_004515641.1	scaffold10	91720	AA	CC	CC	URR	101498911	uncharacterized LOC101498911
SNP_61595_A_91809	NW_004515641.1	scaffold10	91809	AA	GG	GG	URR	101498911	uncharacterized LOC101498911
SNP_61596_A_91886	NW_004515641.1	scaffold10	91886	CC	TT	TT	URR	101498911	uncharacterized LOC101498911
SNP_61597_A_91889	NW_004515641.1	scaffold10	91889	GG	TT	TT	URR	101498911	uncharacterized LOC101498911
SNP_61598_A_91909	NW_004515641.1	scaffold10	91909	GG	CC	CC	URR	101498911	uncharacterized LOC101498911
SNP_61599_A_91913	NW_004515641.1	scaffold10	91913	TT	CC	CC	URR	101498911	uncharacterized LOC101498911
SNP_61600_A_91923	NW_004515641.1	scaffold10	91923	TT	CC	CC	URR	101498911	uncharacterized LOC101498911

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61601_A_91974	NW_004515641.1	scaffold10	91974	CC	AA	AA	URR		101498911	uncharacterized LOC101498911
SNP_61602_A_92031	NW_004515641.1	scaffold10	92031	GG	AA	AA	URR		101498911	uncharacterized LOC101498911
SNP_61603_A_92049	NW_004515641.1	scaffold10	92049	AA	CC	CC	URR		101498911	uncharacterized LOC101498911
SNP_61604_A_92064	NW_004515641.1	scaffold10	92064	CC	AA	AA	URR		101498911	uncharacterized LOC101498911
SNP_61605_A_92222	NW_004515641.1	scaffold10	92222	GG	AA	AA	URR		101498911	uncharacterized LOC101498911
SNP_61606_A_92249	NW_004515641.1	scaffold10	92249	CC	AA	AA	URR		101498911	uncharacterized LOC101498911
SNP_61607_A_92594	NW_004515641.1	scaffold10	92594	TT	CC	CC	URR		101498911	uncharacterized LOC101498911
SNP_61608_A_92600	NW_004515641.1	scaffold10	92600	CC	TT	TT	URR		101498911	uncharacterized LOC101498911
SNP_61609_A_92602	NW_004515641.1	scaffold10	92602	AA	CC	CC	URR		101498911	uncharacterized LOC101498911
SNP_61610_A_29634	NW_004515642.1	scaffold11	29634	AA	CC	CC	INTERGENIC			
SNP_61611_A_29635	NW_004515642.1	scaffold11	29635	TT	AA	AA	INTERGENIC			
SNP_61612_A_9022	NW_004515643.1	scaffold12	9022	CC	AA	AA	URR		101500076	40S ribosomal protein S8-like
SNP_61613_A_16084	NW_004515643.1	scaffold12	16084	TT	CC	CC	INTRON		101499236	ABC transporter A family member 4-like
SNP_61614_A_16408	NW_004515643.1	scaffold12	16408	AA	GG	GG	INTRON		101499236	ABC transporter A family member 4-like
SNP_61615_A_16671	NW_004515643.1	scaffold12	16671	TT	CC	CC	INTRON		101499236	ABC transporter A family member 4-like
SNP_61616_A_16673	NW_004515643.1	scaffold12	16673	GG	AA	AA	INTRON		101499236	ABC transporter A family member 4-like
SNP_61617_A_16708	NW_004515643.1	scaffold12	16708	CC	AA	AA	INTRON		101499236	ABC transporter A family member 4-like
SNP_61618_A_58048	NW_004515643.1	scaffold12	58048	AA	GG	GG	INTERGENIC			
SNP_61619_A_58049	NW_004515643.1	scaffold12	58049	AA	GG	GG	INTERGENIC			
SNP_61620_A_101921	NW_004515643.1	scaffold12	101921	CC	AA	AA	INTERGENIC			
SNP_61621_A_110511	NW_004515643.1	scaffold12	110511	GG	AA	AA	INTERGENIC			
SNP_61622_A_110515	NW_004515643.1	scaffold12	110515	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61623_A_110556	NW_004515643.1	scaffold12	110556	GG	TT	TT	INTERGENIC			
SNP_61624_A_110572	NW_004515643.1	scaffold12	110572	GG	TT	TT	INTERGENIC			
SNP_61625_A_110680	NW_004515643.1	scaffold12	110680	TT	CC	CC	INTERGENIC			
SNP_61626_A_110734	NW_004515643.1	scaffold12	110734	AA	TT	TT	INTERGENIC			
SNP_61629_A_159630	NW_004515643.1	scaffold12	159630	AA	CC	CC	INTERGENIC			
SNP_61630_A_160461	NW_004515643.1	scaffold12	160461	GG	AA	AA	INTERGENIC			
SNP_61631_A_160462	NW_004515643.1	scaffold12	160462	AA	TT	TT	INTERGENIC			
SNP_61632_A_160466	NW_004515643.1	scaffold12	160466	CC	TT	TT	INTERGENIC			
SNP_61633_A_160519	NW_004515643.1	scaffold12	160519	GG	TT	TT	INTERGENIC			
SNP_61634_A_160563	NW_004515643.1	scaffold12	160563	GG	AA	AA	INTERGENIC			
SNP_61635_A_161007	NW_004515643.1	scaffold12	161007	TT	GG	GG	INTERGENIC			
SNP_61636_A_190055	NW_004515643.1	scaffold12	190055	CC	TT	TT	INTERGENIC			
SNP_61637_A_198390	NW_004515643.1	scaffold12	198390	GG	AA	AA	INTERGENIC			
SNP_61638_A_198432	NW_004515643.1	scaffold12	198432	TT	CC	CC	INTERGENIC			
SNP_61639_A_198467	NW_004515643.1	scaffold12	198467	GG	CC	CC	INTERGENIC			
SNP_61640_A_198484	NW_004515643.1	scaffold12	198484	AA	GG	GG	INTERGENIC			
SNP_61641_A_198500	NW_004515643.1	scaffold12	198500	TT	CC	CC	INTERGENIC			
SNP_61642_A_198507	NW_004515643.1	scaffold12	198507	AA	GG	GG	INTERGENIC			
SNP_61643_A_198691	NW_004515643.1	scaffold12	198691	TT	CC	CC	INTERGENIC			
SNP_61644_A_198772	NW_004515643.1	scaffold12	198772	GG	TT	TT	INTERGENIC			
SNP_61645_A_198824	NW_004515643.1	scaffold12	198824	GG	AA	AA	INTERGENIC			
SNP_61646_A_198895	NW_004515643.1	scaffold12	198895	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61648_A_238157	NW_004515643.1	scaffold12	238157	CC	AA	AA	INTERGENIC			
SNP_61649_A_238190	NW_004515643.1	scaffold12	238190	TT	CC	CC	INTERGENIC			
SNP_61650_A_238192	NW_004515643.1	scaffold12	238192	GG	TT	TT	INTERGENIC			
SNP_61651_A_238197	NW_004515643.1	scaffold12	238197	AA	GG	GG	INTERGENIC			
SNP_61652_A_238267	NW_004515643.1	scaffold12	238267	TT	CC	CC	INTERGENIC			
SNP_61653_A_238270	NW_004515643.1	scaffold12	238270	TT	CC	CC	INTERGENIC			
SNP_61654_A_238282	NW_004515643.1	scaffold12	238282	AA	GG	GG	INTERGENIC			
SNP_61655_A_239915	NW_004515643.1	scaffold12	239915	AA	CC	CC	INTERGENIC			
SNP_61656_A_240489	NW_004515643.1	scaffold12	240489	CC	GG	GG	INTERGENIC			
SNP_61657_A_240560	NW_004515643.1	scaffold12	240560	CC	GG	GG	INTERGENIC			
SNP_61658_A_240853	NW_004515643.1	scaffold12	240853	CC	GG	GG	INTERGENIC			
SNP_61659_A_245295	NW_004515643.1	scaffold12	245295	CC	TT	TT	INTERGENIC			
SNP_61660_A_245318	NW_004515643.1	scaffold12	245318	GG	AA	AA	INTERGENIC			
SNP_61661_A_245338	NW_004515643.1	scaffold12	245338	TT	GG	GG	INTERGENIC			
SNP_61663_A_279606	NW_004515643.1	scaffold12	279606	GG	TT	TT	INTERGENIC			
SNP_61664_A_280720	NW_004515643.1	scaffold12	280720	TT	CC	CC	INTERGENIC			
SNP_61665_A_296029	NW_004515643.1	scaffold12	296029	GG	AA	AA	INTERGENIC			
SNP_61666_A_296054	NW_004515643.1	scaffold12	296054	AA	GG	GG	INTERGENIC			
SNP_61667_A_296064	NW_004515643.1	scaffold12	296064	AA	GG	GG	INTERGENIC			
SNP_61668_A_296078	NW_004515643.1	scaffold12	296078	GG	TT	TT	INTERGENIC			
SNP_61669_A_296079	NW_004515643.1	scaffold12	296079	CC	TT	TT	INTERGENIC			
SNP_61670_A_296247	NW_004515643.1	scaffold12	296247	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61671_A_296449	NW_004515643.1	scaffold12	296449	AA	GG	GG	INTERGENIC			
SNP_61672_A_296500	NW_004515643.1	scaffold12	296500	TT	GG	GG	INTERGENIC			
SNP_61673_A_296528	NW_004515643.1	scaffold12	296528	TT	CC	CC	INTERGENIC			
SNP_61674_A_296538	NW_004515643.1	scaffold12	296538	TT	CC	CC	INTERGENIC			
SNP_61675_A_296582	NW_004515643.1	scaffold12	296582	TT	CC	CC	INTERGENIC			
SNP_61676_A_305949	NW_004515643.1	scaffold12	305949	GG	TT	TT	INTERGENIC			
SNP_61677_A_352166	NW_004515643.1	scaffold12	352166	CC	GG	GG	INTERGENIC			
SNP_61679_A_3143	NW_004515644.1	scaffold13	3143	CC	TT	TT	INTERGENIC			
SNP_61680_A_3481	NW_004515644.1	scaffold13	3481	TT	AA	AA	INTERGENIC			
SNP_61681_A_3505	NW_004515644.1	scaffold13	3505	TT	AA	AA	INTERGENIC			
SNP_61682_A_14219	NW_004515644.1	scaffold13	14219	TT	AA	AA	INTERGENIC			
SNP_61683_A_14429	NW_004515644.1	scaffold13	14429	CC	AA	AA	INTERGENIC			
SNP_61684_A_14430	NW_004515644.1	scaffold13	14430	CC	TT	TT	INTERGENIC			
SNP_61685_A_16956	NW_004515644.1	scaffold13	16956	GG	CC	CC	INTERGENIC			
SNP_61686_A_16980	NW_004515644.1	scaffold13	16980	TT	CC	CC	INTERGENIC			
SNP_61687_A_16992	NW_004515644.1	scaffold13	16992	TT	CC	CC	INTERGENIC			
SNP_61688_A_16995	NW_004515644.1	scaffold13	16995	AA	TT	TT	INTERGENIC			
SNP_61689_A_17080	NW_004515644.1	scaffold13	17080	CC	AA	AA	INTERGENIC			
SNP_61690_A_17081	NW_004515644.1	scaffold13	17081	TT	CC	CC	INTERGENIC			
SNP_61691_A_17127	NW_004515644.1	scaffold13	17127	AA	TT	TT	INTERGENIC			
SNP_61692_A_17201	NW_004515644.1	scaffold13	17201	GG	CC	CC	INTERGENIC			
SNP_61693_A_22753	NW_004515644.1	scaffold13	22753	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61694_A_22968	NW_004515644.1	scaffold13	22968	TT	GG	GG	INTERGENIC		
SNP_61695_A_26400	NW_004515644.1	scaffold13	26400	CC	GG	GG	INTERGENIC		
SNP_61696_A_26629	NW_004515644.1	scaffold13	26629	TT	AA	AA	INTERGENIC		
SNP_61697_A_26690	NW_004515644.1	scaffold13	26690	AA	GG	GG	INTERGENIC		
SNP_61698_A_32872	NW_004515644.1	scaffold13	32872	TT	GG	GG	URR	101502311	protein YLS9-like
SNP_61699_A_32946	NW_004515644.1	scaffold13	32946	CC	TT	TT	URR	101502311	protein YLS9-like
SNP_61700_A_32987	NW_004515644.1	scaffold13	32987	AA	TT	TT	URR	101502311	protein YLS9-like
SNP_61701_A_33032	NW_004515644.1	scaffold13	33032	AA	GG	GG	URR	101502311	protein YLS9-like
SNP_61702_A_33049	NW_004515644.1	scaffold13	33049	CC	TT	TT	URR	101502311	protein YLS9-like
SNP_61703_A_33061	NW_004515644.1	scaffold13	33061	GG	AA	AA	URR	101502311	protein YLS9-like
SNP_61704_A_33074	NW_004515644.1	scaffold13	33074	CC	GG	GG	URR	101502311	protein YLS9-like
SNP_61705_A_33098	NW_004515644.1	scaffold13	33098	AA	TT	TT	URR	101502311	protein YLS9-like
SNP_61706_A_33099	NW_004515644.1	scaffold13	33099	TT	CC	CC	URR	101502311	protein YLS9-like
SNP_61707_A_33103	NW_004515644.1	scaffold13	33103	TT	CC	CC	URR	101502311	protein YLS9-like
SNP_61708_A_33150	NW_004515644.1	scaffold13	33150	AA	GG	GG	URR	101502311	protein YLS9-like
SNP_61709_A_33375	NW_004515644.1	scaffold13	33375	CC	TT	TT	URR	101502311	protein YLS9-like
SNP_61710_A_33806	NW_004515644.1	scaffold13	33806	CC	AA	AA	INTERGENIC		
SNP_61711_A_40505	NW_004515644.1	scaffold13	40505	CC	TT	TT	INTERGENIC		
SNP_61712_A_44106	NW_004515644.1	scaffold13	44106	AA	GG	GG	INTERGENIC		
SNP_61713_A_46012	NW_004515644.1	scaffold13	46012	AA	GG	GG	INTERGENIC		
SNP_61714_A_56499	NW_004515644.1	scaffold13	56499	TT	AA	AA	INTERGENIC		
SNP_61715_A_70809	NW_004515644.1	scaffold13	70809	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61716_A_70931	NW_004515644.1	scaffold13	70931	AA	TT	TT	INTERGENIC			
SNP_61717_A_71274	NW_004515644.1	scaffold13	71274	CC	TT	TT	INTERGENIC			
SNP_61718_A_85142	NW_004515644.1	scaffold13	85142	AA	CC	CC	INTERGENIC			
SNP_61719_A_85154	NW_004515644.1	scaffold13	85154	TT	CC	CC	INTERGENIC			
SNP_61720_A_85174	NW_004515644.1	scaffold13	85174	CC	TT	TT	INTERGENIC			
SNP_61721_A_85178	NW_004515644.1	scaffold13	85178	TT	CC	CC	INTERGENIC			
SNP_61722_A_85182	NW_004515644.1	scaffold13	85182	TT	AA	AA	INTERGENIC			
SNP_61723_A_85195	NW_004515644.1	scaffold13	85195	GG	AA	AA	INTERGENIC			
SNP_61724_A_85199	NW_004515644.1	scaffold13	85199	CC	TT	TT	INTERGENIC			
SNP_61725_A_85201	NW_004515644.1	scaffold13	85201	TT	CC	CC	INTERGENIC			
SNP_61726_A_3654	NW_004515645.1	scaffold15	3654	AA	TT	TT	INTERGENIC			
SNP_61727_A_9084	NW_004515645.1	scaffold15	9084	AA	TT	TT	INTERGENIC			
SNP_61728_A_10717	NW_004515645.1	scaffold15	10717	CC	TT	TT	INTERGENIC			
SNP_61729_A_10733	NW_004515645.1	scaffold15	10733	GG	CC	CC	INTERGENIC			
SNP_61730_A_10741	NW_004515645.1	scaffold15	10741	TT	AA	AA	INTERGENIC			
SNP_61731_A_10742	NW_004515645.1	scaffold15	10742	TT	CC	CC	INTERGENIC			
SNP_61732_A_19612	NW_004515645.1	scaffold15	19612	GG	AA	AA	INTERGENIC			
SNP_61733_A_27464	NW_004515645.1	scaffold15	27464	GG	TT	TT	INTERGENIC			
SNP_61734_A_27721	NW_004515645.1	scaffold15	27721	AA	GG	GG	INTERGENIC			
SNP_61735_A_28944	NW_004515645.1	scaffold15	28944	AA	TT	TT	INTERGENIC			
SNP_61736_A_32233	NW_004515645.1	scaffold15	32233	TT	CC	CC	INTERGENIC			
SNP_61737_A_32242	NW_004515645.1	scaffold15	32242	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61738_A_32245	NW_004515645.1	scaffold15	32245	GG	TT	TT	INTERGENIC			
SNP_61739_A_32278	NW_004515645.1	scaffold15	32278	TT	AA	AA	INTERGENIC			
SNP_61740_A_32280	NW_004515645.1	scaffold15	32280	AA	TT	TT	INTERGENIC			
SNP_61741_A_32288	NW_004515645.1	scaffold15	32288	CC	GG	GG	INTERGENIC			
SNP_61742_A_38669	NW_004515645.1	scaffold15	38669	CC	AA	AA	INTERGENIC			
SNP_61743_A_45230	NW_004515645.1	scaffold15	45230	CC	GG	GG	INTERGENIC			
SNP_61744_A_46923	NW_004515645.1	scaffold15	46923	GG	TT	TT	INTERGENIC			
SNP_61745_A_49356	NW_004515645.1	scaffold15	49356	CC	GG	GG	INTERGENIC			
SNP_61746_A_49498	NW_004515645.1	scaffold15	49498	CC	GG	GG	INTERGENIC			
SNP_61747_A_49634	NW_004515645.1	scaffold15	49634	AA	TT	TT	INTERGENIC			
SNP_61748_A_63134	NW_004515645.1	scaffold15	63134	GG	TT	TT	INTERGENIC			
SNP_61749_A_63175	NW_004515645.1	scaffold15	63175	AA	CC	CC	INTERGENIC			
SNP_61750_A_63193	NW_004515645.1	scaffold15	63193	GG	CC	CC	INTERGENIC			
SNP_61751_A_69876	NW_004515645.1	scaffold15	69876	CC	GG	GG	INTERGENIC			
SNP_61752_A_69890	NW_004515645.1	scaffold15	69890	CC	GG	GG	INTERGENIC			
SNP_61753_A_70366	NW_004515645.1	scaffold15	70366	GG	AA	AA	INTERGENIC			
SNP_61754_A_70569	NW_004515645.1	scaffold15	70569	GG	CC	CC	INTERGENIC			
SNP_61755_A_70662	NW_004515645.1	scaffold15	70662	GG	AA	AA	INTERGENIC			
SNP_61756_A_92287	NW_004515645.1	scaffold15	92287	GG	AA	AA	INTERGENIC			
SNP_61757_A_92776	NW_004515645.1	scaffold15	92776	AA	TT	TT	INTERGENIC			
SNP_61758_A_115553	NW_004515645.1	scaffold15	115553	CC	TT	TT	INTERGENIC			
SNP_61759_A_119533	NW_004515645.1	scaffold15	119533	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61760_A_139632	NW_004515645.1	scaffold15	139632	AA	TT	TT	INTERGENIC			
SNP_61761_A_140899	NW_004515645.1	scaffold15	140899	GG	CC	CC	INTERGENIC			
SNP_61762_A_144076	NW_004515645.1	scaffold15	144076	GG	AA	AA	INTERGENIC			
SNP_61764_A_152770	NW_004515645.1	scaffold15	152770	AA	CC	CC	INTERGENIC			
SNP_61765_A_153146	NW_004515645.1	scaffold15	153146	TT	AA	AA	INTERGENIC			
SNP_61766_A_159714	NW_004515645.1	scaffold15	159714	CC	GG	GG	INTERGENIC			
SNP_61767_A_165754	NW_004515645.1	scaffold15	165754	TT	GG	GG	INTERGENIC			
SNP_61768_A_827	NW_004515646.1	scaffold16	827	TT	GG	GG	INTERGENIC			
SNP_61769_A_894	NW_004515646.1	scaffold16	894	TT	CC	CC	INTERGENIC			
SNP_61770_A_896	NW_004515646.1	scaffold16	896	GG	AA	AA	INTERGENIC			
SNP_61771_A_912	NW_004515646.1	scaffold16	912	GG	AA	AA	INTERGENIC			
SNP_61772_A_924	NW_004515646.1	scaffold16	924	AA	GG	GG	INTERGENIC			
SNP_61773_A_939	NW_004515646.1	scaffold16	939	GG	AA	AA	INTERGENIC			
SNP_61774_A_949	NW_004515646.1	scaffold16	949	AA	GG	GG	INTERGENIC			
SNP_61775_A_955	NW_004515646.1	scaffold16	955	AA	GG	GG	INTERGENIC			
SNP_61776_A_992	NW_004515646.1	scaffold16	992	AA	CC	CC	INTERGENIC			
SNP_61777_A_1009	NW_004515646.1	scaffold16	1009	TT	GG	GG	INTERGENIC			
SNP_61778_A_1068	NW_004515646.1	scaffold16	1068	TT	CC	CC	INTERGENIC			
SNP_61779_A_1088	NW_004515646.1	scaffold16	1088	TT	AA	AA	INTERGENIC			
SNP_61780_A_4567	NW_004515646.1	scaffold16	4567	CC	TT	TT	INTERGENIC			
SNP_61781_A_4600	NW_004515646.1	scaffold16	4600	AA	CC	CC	INTERGENIC			
SNP_61783_A_40821	NW_004515647.1	scaffold17	40821	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61784_A_95083	NW_004515647.1	scaffold17	95083	TT	AA	AA	INTERGENIC			
SNP_61785_A_95598	NW_004515647.1	scaffold17	95598	CC	TT	TT	INTERGENIC			
SNP_61786_A_96616	NW_004515647.1	scaffold17	96616	AA	GG	GG	INTERGENIC			
SNP_61787_A_99790	NW_004515647.1	scaffold17	99790	CC	TT	TT	INTERGENIC			
SNP_61788_A_99811	NW_004515647.1	scaffold17	99811	GG	AA	AA	INTERGENIC			
SNP_61790_A_99964	NW_004515647.1	scaffold17	99964	GG	AA	AA	INTERGENIC			
SNP_61791_A_101846	NW_004515647.1	scaffold17	101846	TT	CC	CC	INTERGENIC			
SNP_61792_A_103341	NW_004515647.1	scaffold17	103341	TT	GG	GG	INTERGENIC			
SNP_61793_A_103501	NW_004515647.1	scaffold17	103501	AA	GG	GG	INTERGENIC			
SNP_61794_A_123132	NW_004515647.1	scaffold17	123132	TT	CC	CC	INTERGENIC			
SNP_61795_A_123893	NW_004515647.1	scaffold17	123893	AA	GG	GG	INTERGENIC			
SNP_61796_A_125114	NW_004515647.1	scaffold17	125114	CC	GG	GG	INTERGENIC			
SNP_61797_A_125547	NW_004515647.1	scaffold17	125547	GG	TT	TT	INTERGENIC			
SNP_61798_A_125584	NW_004515647.1	scaffold17	125584	TT	CC	CC	INTERGENIC			
SNP_61799_A_128083	NW_004515647.1	scaffold17	128083	TT	GG	GG	INTERGENIC			
SNP_61800_A_128304	NW_004515647.1	scaffold17	128304	TT	CC	CC	INTERGENIC			
SNP_61801_A_128417	NW_004515647.1	scaffold17	128417	TT	GG	GG	INTERGENIC			
SNP_61802_A_128427	NW_004515647.1	scaffold17	128427	GG	TT	TT	INTERGENIC			
SNP_61803_A_128726	NW_004515647.1	scaffold17	128726	TT	GG	GG	INTERGENIC			
SNP_61804_A_135696	NW_004515647.1	scaffold17	135696	CC	GG	GG	INTERGENIC			
SNP_61805_A_135703	NW_004515647.1	scaffold17	135703	GG	AA	AA	INTERGENIC			
SNP_61806_A_142646	NW_004515647.1	scaffold17	142646	TT	CC	CC	DRR	101507674	uncharacterized LOC101507674	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61807_A_142734	NW_004515647.1	scaffold17	142734	CC	TT	TT	DRR	101507674	uncharacterized LOC101507674
SNP_61808_A_142801	NW_004515647.1	scaffold17	142801	GG	AA	AA	DRR	101507674	uncharacterized LOC101507674
SNP_61809_A_143168	NW_004515647.1	scaffold17	143168	CC	AA	AA	INTERGENIC		
SNP_61810_A_145721	NW_004515647.1	scaffold17	145721	TT	GG	GG	INTRON	101507674	uncharacterized LOC101507674
SNP_61811_A_145751	NW_004515647.1	scaffold17	145751	TT	CC	CC	INTRON	101507674	uncharacterized LOC101507674
SNP_61812_A_145778	NW_004515647.1	scaffold17	145778	AA	GG	GG	INTRON	101507674	uncharacterized LOC101507674
SNP_61813_A_146041	NW_004515647.1	scaffold17	146041	AA	GG	GG	INTRON	101507674	uncharacterized LOC101507674
SNP_61814_A_146140	NW_004515647.1	scaffold17	146140	GG	TT	TT	INTRON	101507674	uncharacterized LOC101507674
SNP_61815_A_146142	NW_004515647.1	scaffold17	146142	AA	GG	GG	INTRON	101507674	uncharacterized LOC101507674
SNP_61816_A_153125	NW_004515647.1	scaffold17	153125	TT	CC	CC	URR	101507674	uncharacterized LOC101507674
SNP_61817_A_153190	NW_004515647.1	scaffold17	153190	CC	TT	TT	URR	101507674	uncharacterized LOC101507674
SNP_61818_A_197503	NW_004515647.1	scaffold17	197503	TT	CC	CC	INTERGENIC		
SNP_61819_A_197512	NW_004515647.1	scaffold17	197512	GG	AA	AA	INTERGENIC		
SNP_61820_A_197518	NW_004515647.1	scaffold17	197518	GG	TT	TT	INTERGENIC		
SNP_61821_A_201234	NW_004515647.1	scaffold17	201234	AA	GG	GG	INTERGENIC		
SNP_61822_A_201241	NW_004515647.1	scaffold17	201241	TT	CC	CC	INTERGENIC		
SNP_61823_A_208249	NW_004515647.1	scaffold17	208249	GG	TT	TT	INTERGENIC		
SNP_61824_A_231824	NW_004515647.1	scaffold17	231824	TT	CC	CC	INTERGENIC		
SNP_61825_A_232065	NW_004515647.1	scaffold17	232065	AA	TT	TT	INTERGENIC		
SNP_61826_A_233595	NW_004515647.1	scaffold17	233595	CC	TT	TT	INTERGENIC		
SNP_61827_A_233659	NW_004515647.1	scaffold17	233659	AA	GG	GG	INTERGENIC		
SNP_61828_A_262751	NW_004515647.1	scaffold17	262751	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61829_A_278034	NW_004515647.1	scaffold17	278034	CC	TT	TT	URR	101505639	Unknown function
SNP_61830_A_281966	NW_004515647.1	scaffold17	281966	TT	CC	CC	INTERGENIC		
SNP_61831_A_291381	NW_004515647.1	scaffold17	291381	TT	CC	CC	INTERGENIC		
SNP_61832_A_291623	NW_004515647.1	scaffold17	291623	TT	CC	CC	INTERGENIC		
SNP_61833_A_291830	NW_004515647.1	scaffold17	291830	CC	TT	TT	INTERGENIC		
SNP_61834_A_292010	NW_004515647.1	scaffold17	292010	AA	TT	TT	INTERGENIC		
SNP_61835_A_292068	NW_004515647.1	scaffold17	292068	CC	TT	TT	INTERGENIC		
SNP_61836_A_292224	NW_004515647.1	scaffold17	292224	AA	GG	GG	INTERGENIC		
SNP_61837_A_292267	NW_004515647.1	scaffold17	292267	GG	AA	AA	INTERGENIC		
SNP_61838_A_292273	NW_004515647.1	scaffold17	292273	AA	CC	CC	INTERGENIC		
SNP_61839_A_292274	NW_004515647.1	scaffold17	292274	AA	GG	GG	INTERGENIC		
SNP_61840_A_292593	NW_004515647.1	scaffold17	292593	TT	GG	GG	DRR	101506163	thioredoxin-like protein Clot
SNP_61841_A_292796	NW_004515647.1	scaffold17	292796	GG	AA	AA	DRR	101506163	thioredoxin-like protein Clot
SNP_61842_A_292869	NW_004515647.1	scaffold17	292869	TT	CC	CC	DRR	101506163	thioredoxin-like protein Clot
SNP_61843_A_293110	NW_004515647.1	scaffold17	293110	AA	TT	TT	DRR	101506163	thioredoxin-like protein Clot
SNP_61844_A_293317	NW_004515647.1	scaffold17	293317	AA	CC	CC	DRR	101506163	thioredoxin-like protein Clot
SNP_61845_A_294785	NW_004515647.1	scaffold17	294785	TT	AA	AA	INTRON	101506163	thioredoxin-like protein Clot
SNP_61846_A_294810	NW_004515647.1	scaffold17	294810	AA	GG	GG	INTRON	101506163	thioredoxin-like protein Clot
SNP_61847_A_295120	NW_004515647.1	scaffold17	295120	GG	AA	AA	INTRON	101506163	thioredoxin-like protein Clot
SNP_61848_A_296737	NW_004515647.1	scaffold17	296737	CC	AA	AA	INTRON	101506163	thioredoxin-like protein Clot
SNP_61849_A_296993	NW_004515647.1	scaffold17	296993	TT	CC	CC	SPLICE_SITE_REGION	101506163	thioredoxin-like protein Clot
SNP_61850_A_297240	NW_004515647.1	scaffold17	297240	GG	AA	AA	URR	101506163	thioredoxin-like protein Clot

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61851_A_297266	NW_004515647.1	scaffold17	297266	TT	CC	CC	URR	101506163	thioredoxin-like protein Clot
SNP_61852_A_297286	NW_004515647.1	scaffold17	297286	TT	CC	CC	URR	101506163	thioredoxin-like protein Clot
SNP_61853_A_297289	NW_004515647.1	scaffold17	297289	CC	TT	TT	URR	101506163	thioredoxin-like protein Clot
SNP_61854_A_297291	NW_004515647.1	scaffold17	297291	TT	CC	CC	URR	101506163	thioredoxin-like protein Clot
SNP_61855_A_297296	NW_004515647.1	scaffold17	297296	TT	CC	CC	URR	101506163	thioredoxin-like protein Clot
SNP_61856_A_297506	NW_004515647.1	scaffold17	297506	CC	TT	TT	URR	101506163	thioredoxin-like protein Clot
SNP_61857_A_318278	NW_004515647.1	scaffold17	318278	TT	CC	CC	URR	101508308	uncharacterized LOC101508308
SNP_61858_A_539	NW_004515648.1	scaffold22	539	CC	TT	TT	INTERGENIC		
SNP_61859_A_976	NW_004515648.1	scaffold22	976	TT	CC	CC	INTERGENIC		
SNP_61860_A_14110	NW_004515648.1	scaffold22	14110	CC	TT	TT	INTERGENIC		
SNP_61861_A_24426	NW_004515648.1	scaffold22	24426	TT	GG	GG	INTERGENIC		
SNP_61863_A_24530	NW_004515648.1	scaffold22	24530	CC	TT	TT	INTERGENIC		
SNP_61864_A_24777	NW_004515648.1	scaffold22	24777	AA	CC	CC	INTERGENIC		
SNP_61865_A_24869	NW_004515648.1	scaffold22	24869	AA	GG	GG	INTERGENIC		
SNP_61866_A_24879	NW_004515648.1	scaffold22	24879	TT	CC	CC	INTERGENIC		
SNP_61867_A_24948	NW_004515648.1	scaffold22	24948	AA	TT	TT	INTERGENIC		
SNP_61868_A_34133	NW_004515648.1	scaffold22	34133	TT	CC	CC	INTERGENIC		
SNP_61869_A_34359	NW_004515648.1	scaffold22	34359	AA	CC	CC	INTERGENIC		
SNP_61870_A_34369	NW_004515648.1	scaffold22	34369	TT	CC	CC	INTERGENIC		
SNP_61871_A_34394	NW_004515648.1	scaffold22	34394	AA	GG	GG	INTERGENIC		
SNP_61872_A_34427	NW_004515648.1	scaffold22	34427	CC	AA	AA	INTERGENIC		
SNP_61873_A_34429	NW_004515648.1	scaffold22	34429	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61874_A_34434	NW_004515648.1	scaffold22	34434	TT	GG	GG	INTERGENIC			
SNP_61875_A_34493	NW_004515648.1	scaffold22	34493	TT	GG	GG	INTERGENIC			
SNP_61877_A_34585	NW_004515648.1	scaffold22	34585	CC	TT	TT	INTERGENIC			
SNP_61878_A_34586	NW_004515648.1	scaffold22	34586	TT	GG	GG	INTERGENIC			
SNP_61879_A_34592	NW_004515648.1	scaffold22	34592	CC	GG	GG	INTERGENIC			
SNP_61880_A_34647	NW_004515648.1	scaffold22	34647	GG	TT	TT	INTERGENIC			
SNP_61881_A_34724	NW_004515648.1	scaffold22	34724	TT	CC	CC	INTERGENIC			
SNP_61882_A_34752	NW_004515648.1	scaffold22	34752	GG	AA	AA	INTERGENIC			
SNP_61883_A_34761	NW_004515648.1	scaffold22	34761	AA	GG	GG	INTERGENIC			
SNP_61884_A_34766	NW_004515648.1	scaffold22	34766	GG	AA	AA	INTERGENIC			
SNP_61885_A_34767	NW_004515648.1	scaffold22	34767	GG	AA	AA	INTERGENIC			
SNP_61886_A_34810	NW_004515648.1	scaffold22	34810	CC	AA	AA	INTERGENIC			
SNP_61887_A_41747	NW_004515648.1	scaffold22	41747	AA	GG	GG	INTERGENIC			
SNP_61888_A_41837	NW_004515648.1	scaffold22	41837	GG	TT	TT	INTERGENIC			
SNP_61889_A_41915	NW_004515648.1	scaffold22	41915	AA	GG	GG	INTERGENIC			
SNP_61890_A_243	NW_004515649.1	scaffold25	243	CC	TT	TT	INTERGENIC			
SNP_61891_A_14163	NW_004515649.1	scaffold25	14163	AA	GG	GG	INTERGENIC			
SNP_61892_A_14459	NW_004515649.1	scaffold25	14459	TT	AA	AA	INTERGENIC			
SNP_61894_A_14756	NW_004515649.1	scaffold25	14756	CC	GG	GG	INTERGENIC			
SNP_61895_A_16117	NW_004515649.1	scaffold25	16117	AA	GG	GG	INTERGENIC			
SNP_61896_A_20091	NW_004515649.1	scaffold25	20091	CC	TT	TT	INTERGENIC			
SNP_61897_A_22512	NW_004515649.1	scaffold25	22512	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61898_A_33851	NW_004515649.1	scaffold25	33851	AA	TT	TT	INTERGENIC		
SNP_61900_A_39357	NW_004515649.1	scaffold25	39357	GG	AA	AA	INTERGENIC		
SNP_61901_A_39829	NW_004515649.1	scaffold25	39829	TT	CC	CC	INTERGENIC		
SNP_61902_A_41084	NW_004515649.1	scaffold25	41084	GG	AA	AA	DRR	101508625	Unknown function
SNP_61903_A_41791	NW_004515649.1	scaffold25	41791	GG	TT	TT	NON_SYNONYMOUS_CODING	101508625	Unknown function
SNP_61904_A_43124	NW_004515649.1	scaffold25	43124	CC	TT	TT	INTRON	101508625	Unknown function
SNP_61905_A_43131	NW_004515649.1	scaffold25	43131	CC	AA	AA	INTRON	101508625	Unknown function
SNP_61906_A_43451	NW_004515649.1	scaffold25	43451	TT	AA	AA	INTRON	101508625	Unknown function
SNP_61907_A_50994	NW_004515649.1	scaffold25	50994	TT	AA	AA	INTERGENIC		
SNP_61908_A_51182	NW_004515649.1	scaffold25	51182	TT	CC	CC	INTERGENIC		
SNP_61909_A_51412	NW_004515649.1	scaffold25	51412	TT	CC	CC	INTERGENIC		
SNP_61911_A_51860	NW_004515649.1	scaffold25	51860	CC	TT	TT	INTERGENIC		
SNP_61912_A_52907	NW_004515649.1	scaffold25	52907	GG	CC	CC	INTERGENIC		
SNP_61913_A_55396	NW_004515649.1	scaffold25	55396	AA	TT	TT	INTERGENIC		
SNP_61914_A_55556	NW_004515649.1	scaffold25	55556	AA	GG	GG	INTERGENIC		
SNP_61915_A_56303	NW_004515649.1	scaffold25	56303	TT	GG	GG	INTERGENIC		
SNP_61916_A_57478	NW_004515649.1	scaffold25	57478	TT	AA	AA	INTERGENIC		
SNP_61917_A_58218	NW_004515649.1	scaffold25	58218	CC	GG	GG	INTERGENIC		
SNP_61918_A_60400	NW_004515649.1	scaffold25	60400	GG	CC	CC	INTERGENIC		
SNP_61919_A_60420	NW_004515649.1	scaffold25	60420	AA	CC	CC	INTERGENIC		
SNP_61920_A_60584	NW_004515649.1	scaffold25	60584	AA	TT	TT	INTERGENIC		
SNP_61921_A_60686	NW_004515649.1	scaffold25	60686	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61922_A_61974	NW_004515649.1	scaffold25	61974	CC	GG	GG	DRR	101508943	Unknown function
SNP_61923_A_62048	NW_004515649.1	scaffold25	62048	CC	AA	AA	DRR	101508943	Unknown function
SNP_61925_A_62383	NW_004515649.1	scaffold25	62383	AA	GG	GG	INTRON	101508943	Unknown function
SNP_61926_A_67202	NW_004515649.1	scaffold25	67202	TT	CC	CC	INTRON	101508943	Unknown function
SNP_61927_A_67978	NW_004515649.1	scaffold25	67978	TT	CC	CC	NON_SYNONYMOUS_CODING	101508943	Unknown function
SNP_61928_A_70207	NW_004515649.1	scaffold25	70207	GG	AA	AA	SYNONYMOUS_CODING	101508943	Unknown function
SNP_61929_A_71238	NW_004515649.1	scaffold25	71238	AA	GG	GG	URR	101508943	Unknown function
SNP_61930_A_71304	NW_004515649.1	scaffold25	71304	GG	TT	TT	URR	101508943	Unknown function
SNP_61931_A_72136	NW_004515649.1	scaffold25	72136	GG	AA	AA	URR	101508943	Unknown function
SNP_61932_A_72137	NW_004515649.1	scaffold25	72137	AA	GG	GG	URR	101508943	Unknown function
SNP_61934_A_72741	NW_004515649.1	scaffold25	72741	AA	CC	CC	INTERGENIC		
SNP_61936_A_73453	NW_004515649.1	scaffold25	73453	CC	TT	TT	INTERGENIC		
SNP_61937_A_73699	NW_004515649.1	scaffold25	73699	GG	CC	CC	INTERGENIC		
SNP_61938_A_73847	NW_004515649.1	scaffold25	73847	AA	TT	TT	INTERGENIC		
SNP_61940_A_76169	NW_004515649.1	scaffold25	76169	CC	TT	TT	INTERGENIC		
SNP_61941_A_2453	NW_004515650.1	scaffold26	2453	AA	GG	GG	INTERGENIC		
SNP_61942_A_2830	NW_004515650.1	scaffold26	2830	CC	AA	AA	INTERGENIC		
SNP_61943_A_16259	NW_004515650.1	scaffold26	16259	AA	GG	GG	INTERGENIC		
SNP_61944_A_90797	NW_004515650.1	scaffold26	90797	TT	CC	CC	NON_SYNONYMOUS_CODING	id193824	Unknown function
SNP_61945_A_108357	NW_004515650.1	scaffold26	108357	GG	AA	AA	INTERGENIC		
SNP_61946_A_108368	NW_004515650.1	scaffold26	108368	TT	CC	CC	INTERGENIC		
SNP_61947_A_145329	NW_004515650.1	scaffold26	145329	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61949_A_164743	NW_004515650.1	scaffold26	164743	AA	GG	GG	INTERGENIC		
SNP_61950_A_198795	NW_004515650.1	scaffold26	198795	GG	AA	AA	INTERGENIC		
SNP_61951_A_209158	NW_004515650.1	scaffold26	209158	TT	GG	GG	URR	101509482	uncharacterized LOC101509482
SNP_61952_A_209197	NW_004515650.1	scaffold26	209197	GG	TT	TT	URR	101509482	uncharacterized LOC101509482
SNP_61953_A_224290	NW_004515650.1	scaffold26	224290	TT	CC	CC	INTERGENIC		
SNP_61954_A_224308	NW_004515650.1	scaffold26	224308	TT	AA	AA	INTERGENIC		
SNP_61955_A_224325	NW_004515650.1	scaffold26	224325	GG	AA	AA	INTERGENIC		
SNP_61956_A_224354	NW_004515650.1	scaffold26	224354	GG	AA	AA	INTERGENIC		
SNP_61957_A_224358	NW_004515650.1	scaffold26	224358	GG	AA	AA	INTERGENIC		
SNP_61958_A_227551	NW_004515650.1	scaffold26	227551	TT	AA	AA	INTERGENIC		
SNP_61959_A_227573	NW_004515650.1	scaffold26	227573	GG	AA	AA	INTERGENIC		
SNP_61960_A_227668	NW_004515650.1	scaffold26	227668	TT	CC	CC	INTERGENIC		
SNP_61961_A_227820	NW_004515650.1	scaffold26	227820	AA	GG	GG	INTERGENIC		
SNP_61962_A_294707	NW_004515650.1	scaffold26	294707	GG	TT	TT	INTERGENIC		
SNP_61963_A_294816	NW_004515650.1	scaffold26	294816	AA	GG	GG	INTERGENIC		
SNP_61964_A_295048	NW_004515650.1	scaffold26	295048	CC	TT	TT	INTERGENIC		
SNP_61965_A_295068	NW_004515650.1	scaffold26	295068	GG	AA	AA	INTERGENIC		
SNP_61966_A_295077	NW_004515650.1	scaffold26	295077	CC	TT	TT	INTERGENIC		
SNP_61967_A_295090	NW_004515650.1	scaffold26	295090	GG	TT	TT	INTERGENIC		
SNP_61968_A_295120	NW_004515650.1	scaffold26	295120	GG	TT	TT	INTERGENIC		
SNP_61969_A_295129	NW_004515650.1	scaffold26	295129	TT	GG	GG	INTERGENIC		
SNP_61970_A_295135	NW_004515650.1	scaffold26	295135	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_61971_A_295168	NW_004515650.1	scaffold26	295168	CC	TT	TT	INTERGENIC		
SNP_61972_A_404327	NW_004515650.1	scaffold26	404327	TT	AA	AA	INTERGENIC		
SNP_61973_A_404332	NW_004515650.1	scaffold26	404332	TT	AA	AA	INTERGENIC		
SNP_61974_A_404337	NW_004515650.1	scaffold26	404337	AA	TT	TT	INTERGENIC		
SNP_61975_A_429913	NW_004515650.1	scaffold26	429913	GG	TT	TT	INTERGENIC		
SNP_61976_A_455741	NW_004515650.1	scaffold26	455741	AA	GG	GG	URR	101510879	uncharacterized LOC101510879
SNP_61977_A_469706	NW_004515650.1	scaffold26	469706	AA	TT	TT	INTERGENIC		
SNP_61978_A_469738	NW_004515650.1	scaffold26	469738	AA	CC	CC	INTERGENIC		
SNP_61979_A_486081	NW_004515650.1	scaffold26	486081	TT	CC	CC	INTERGENIC		
SNP_61980_A_486102	NW_004515650.1	scaffold26	486102	TT	CC	CC	INTERGENIC		
SNP_61981_A_486267	NW_004515650.1	scaffold26	486267	CC	TT	TT	INTERGENIC		
SNP_61982_A_486628	NW_004515650.1	scaffold26	486628	TT	CC	CC	INTERGENIC		
SNP_61983_A_499738	NW_004515650.1	scaffold26	499738	AA	TT	TT	INTERGENIC		
SNP_61984_A_499746	NW_004515650.1	scaffold26	499746	AA	GG	GG	INTERGENIC		
SNP_61985_A_501258	NW_004515650.1	scaffold26	501258	TT	GG	GG	INTERGENIC		
SNP_61986_A_501272	NW_004515650.1	scaffold26	501272	TT	GG	GG	INTERGENIC		
SNP_61987_A_501728	NW_004515650.1	scaffold26	501728	TT	CC	CC	INTERGENIC		
SNP_61988_A_502359	NW_004515650.1	scaffold26	502359	AA	GG	GG	INTERGENIC		
SNP_61989_A_502371	NW_004515650.1	scaffold26	502371	TT	CC	CC	INTERGENIC		
SNP_61990_A_502423	NW_004515650.1	scaffold26	502423	GG	AA	AA	INTERGENIC		
SNP_61991_A_502818	NW_004515650.1	scaffold26	502818	GG	AA	AA	INTERGENIC		
SNP_61992_A_502923	NW_004515650.1	scaffold26	502923	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_61993_A_502956	NW_004515650.1	scaffold26	502956	GG	AA	AA	INTERGENIC			
SNP_61994_A_502966	NW_004515650.1	scaffold26	502966	TT	CC	CC	INTERGENIC			
SNP_61995_A_503238	NW_004515650.1	scaffold26	503238	AA	GG	GG	INTERGENIC			
SNP_61996_A_503260	NW_004515650.1	scaffold26	503260	GG	AA	AA	INTERGENIC			
SNP_61997_A_503274	NW_004515650.1	scaffold26	503274	AA	GG	GG	INTERGENIC			
SNP_61998_A_503289	NW_004515650.1	scaffold26	503289	GG	CC	CC	INTERGENIC			
SNP_61999_A_503328	NW_004515650.1	scaffold26	503328	AA	GG	GG	INTERGENIC			
SNP_62000_A_503354	NW_004515650.1	scaffold26	503354	TT	CC	CC	INTERGENIC			
SNP_62001_A_503370	NW_004515650.1	scaffold26	503370	AA	GG	GG	INTERGENIC			
SNP_62002_A_503376	NW_004515650.1	scaffold26	503376	CC	TT	TT	INTERGENIC			
SNP_62003_A_503383	NW_004515650.1	scaffold26	503383	TT	CC	CC	INTERGENIC			
SNP_62004_A_503393	NW_004515650.1	scaffold26	503393	GG	AA	AA	INTERGENIC			
SNP_62005_A_503409	NW_004515650.1	scaffold26	503409	TT	CC	CC	INTERGENIC			
SNP_62006_A_503431	NW_004515650.1	scaffold26	503431	AA	GG	GG	INTERGENIC			
SNP_62007_A_503437	NW_004515650.1	scaffold26	503437	TT	CC	CC	INTERGENIC			
SNP_62009_A_511075	NW_004515650.1	scaffold26	511075	CC	AA	AA	INTERGENIC			
SNP_62010_A_529576	NW_004515650.1	scaffold26	529576	CC	AA	AA	INTERGENIC			
SNP_62011_A_543969	NW_004515650.1	scaffold26	543969	CC	TT	TT	INTERGENIC			
SNP_62012_A_575643	NW_004515650.1	scaffold26	575643	AA	TT	TT	INTERGENIC			
SNP_62015_A_575776	NW_004515650.1	scaffold26	575776	CC	AA	AA	INTERGENIC			
SNP_62016_A_575788	NW_004515650.1	scaffold26	575788	GG	AA	AA	INTERGENIC			
SNP_62017_A_404	NW_004515651.1	scaffold29	404	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62018_A_658	NW_004515651.1	scaffold29	658	TT	GG	GG	INTERGENIC			
SNP_62019_A_661	NW_004515651.1	scaffold29	661	AA	CC	CC	INTERGENIC			
SNP_62020_A_670	NW_004515651.1	scaffold29	670	CC	AA	AA	INTERGENIC			
SNP_62021_A_3108	NW_004515651.1	scaffold29	3108	AA	TT	TT	INTERGENIC			
SNP_62022_A_3169	NW_004515651.1	scaffold29	3169	GG	AA	AA	INTERGENIC			
SNP_62023_A_5685	NW_004515651.1	scaffold29	5685	TT	CC	CC	INTERGENIC			
SNP_62024_A_7416	NW_004515651.1	scaffold29	7416	AA	GG	GG	INTERGENIC			
SNP_62025_A_8803	NW_004515651.1	scaffold29	8803	AA	CC	CC	INTERGENIC			
SNP_62026_A_12789	NW_004515651.1	scaffold29	12789	TT	CC	CC	INTERGENIC			
SNP_62027_A_33852	NW_004515651.1	scaffold29	33852	TT	CC	CC	INTERGENIC			
SNP_62028_A_42427	NW_004515651.1	scaffold29	42427	CC	GG	GG	INTERGENIC			
SNP_62029_A_45465	NW_004515651.1	scaffold29	45465	AA	CC	CC	INTERGENIC			
SNP_62030_A_45468	NW_004515651.1	scaffold29	45468	GG	TT	TT	INTERGENIC			
SNP_62031_A_51999	NW_004515651.1	scaffold29	51999	GG	AA	AA	INTERGENIC			
SNP_62032_A_55835	NW_004515651.1	scaffold29	55835	AA	GG	GG	INTERGENIC			
SNP_62033_A_56238	NW_004515651.1	scaffold29	56238	GG	AA	AA	INTERGENIC			
SNP_62034_A_63157	NW_004515651.1	scaffold29	63157	CC	TT	TT	INTERGENIC			
SNP_62035_A_63278	NW_004515651.1	scaffold29	63278	CC	AA	AA	INTERGENIC			
SNP_62036_A_63311	NW_004515651.1	scaffold29	63311	TT	CC	CC	INTERGENIC			
SNP_62037_A_63352	NW_004515651.1	scaffold29	63352	GG	AA	AA	INTERGENIC			
SNP_62038_A_63367	NW_004515651.1	scaffold29	63367	TT	CC	CC	INTERGENIC			
SNP_62039_A_81939	NW_004515651.1	scaffold29	81939	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62040_A_85958	NW_004515651.1	scaffold29	85958	CC	AA	AA	INTERGENIC			
SNP_62041_A_91249	NW_004515651.1	scaffold29	91249	GG	TT	TT	INTERGENIC			
SNP_62042_A_91251	NW_004515651.1	scaffold29	91251	GG	TT	TT	INTERGENIC			
SNP_62043_A_91284	NW_004515651.1	scaffold29	91284	TT	CC	CC	INTERGENIC			
SNP_62044_A_91325	NW_004515651.1	scaffold29	91325	TT	CC	CC	INTERGENIC			
SNP_62045_A_91372	NW_004515651.1	scaffold29	91372	GG	AA	AA	INTERGENIC			
SNP_62046_A_91424	NW_004515651.1	scaffold29	91424	TT	CC	CC	INTERGENIC			
SNP_62047_A_91514	NW_004515651.1	scaffold29	91514	TT	GG	GG	INTERGENIC			
SNP_62048_A_91785	NW_004515651.1	scaffold29	91785	TT	AA	AA	INTERGENIC			
SNP_62049_A_91806	NW_004515651.1	scaffold29	91806	AA	GG	GG	INTERGENIC			
SNP_62050_A_92071	NW_004515651.1	scaffold29	92071	AA	CC	CC	INTERGENIC			
SNP_62051_A_92096	NW_004515651.1	scaffold29	92096	GG	TT	TT	INTERGENIC			
SNP_62052_A_92212	NW_004515651.1	scaffold29	92212	AA	GG	GG	INTERGENIC			
SNP_62053_A_93050	NW_004515651.1	scaffold29	93050	AA	CC	CC	INTERGENIC			
SNP_62054_A_93232	NW_004515651.1	scaffold29	93232	GG	CC	CC	INTERGENIC			
SNP_62055_A_93254	NW_004515651.1	scaffold29	93254	TT	AA	AA	INTERGENIC			
SNP_62056_A_93260	NW_004515651.1	scaffold29	93260	TT	AA	AA	INTERGENIC			
SNP_62057_A_93296	NW_004515651.1	scaffold29	93296	CC	AA	AA	INTERGENIC			
SNP_62058_A_93300	NW_004515651.1	scaffold29	93300	AA	GG	GG	INTERGENIC			
SNP_62059_A_93407	NW_004515651.1	scaffold29	93407	GG	AA	AA	INTERGENIC			
SNP_62060_A_93429	NW_004515651.1	scaffold29	93429	TT	CC	CC	INTERGENIC			
SNP_62061_A_93466	NW_004515651.1	scaffold29	93466	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62062_A_93608	NW_004515651.1	scaffold29	93608	AA	CC	CC	INTERGENIC			
SNP_62063_A_96448	NW_004515651.1	scaffold29	96448	TT	CC	CC	INTERGENIC			
SNP_62064_A_96463	NW_004515651.1	scaffold29	96463	GG	AA	AA	INTERGENIC			
SNP_62065_A_96478	NW_004515651.1	scaffold29	96478	CC	TT	TT	INTERGENIC			
SNP_62066_A_97803	NW_004515651.1	scaffold29	97803	AA	TT	TT	INTERGENIC			
SNP_62067_A_97969	NW_004515651.1	scaffold29	97969	GG	TT	TT	INTERGENIC			
SNP_62068_A_97989	NW_004515651.1	scaffold29	97989	TT	GG	GG	INTERGENIC			
SNP_62069_A_98048	NW_004515651.1	scaffold29	98048	GG	TT	TT	INTERGENIC			
SNP_62070_A_98067	NW_004515651.1	scaffold29	98067	CC	GG	GG	INTERGENIC			
SNP_62071_A_98162	NW_004515651.1	scaffold29	98162	CC	TT	TT	INTERGENIC			
SNP_62072_A_98205	NW_004515651.1	scaffold29	98205	AA	GG	GG	INTERGENIC			
SNP_62073_A_98388	NW_004515651.1	scaffold29	98388	CC	GG	GG	INTERGENIC			
SNP_62074_A_98510	NW_004515651.1	scaffold29	98510	AA	GG	GG	INTERGENIC			
SNP_62075_A_98513	NW_004515651.1	scaffold29	98513	AA	GG	GG	INTERGENIC			
SNP_62076_A_98638	NW_004515651.1	scaffold29	98638	GG	CC	CC	INTERGENIC			
SNP_62077_A_98659	NW_004515651.1	scaffold29	98659	TT	AA	AA	INTERGENIC			
SNP_62078_A_98685	NW_004515651.1	scaffold29	98685	TT	CC	CC	INTERGENIC			
SNP_62079_A_98702	NW_004515651.1	scaffold29	98702	TT	AA	AA	INTERGENIC			
SNP_62080_A_98858	NW_004515651.1	scaffold29	98858	GG	AA	AA	INTERGENIC			
SNP_62081_A_98967	NW_004515651.1	scaffold29	98967	AA	GG	GG	INTERGENIC			
SNP_62082_A_99016	NW_004515651.1	scaffold29	99016	TT	GG	GG	INTERGENIC			
SNP_62083_A_100657	NW_004515651.1	scaffold29	100657	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62084_A_100738	NW_004515651.1	scaffold29	100738	AA	CC	CC	INTERGENIC			
SNP_62085_A_100765	NW_004515651.1	scaffold29	100765	TT	GG	GG	INTERGENIC			
SNP_62086_A_100794	NW_004515651.1	scaffold29	100794	TT	CC	CC	INTERGENIC			
SNP_62087_A_100849	NW_004515651.1	scaffold29	100849	CC	AA	AA	INTERGENIC			
SNP_62088_A_101000	NW_004515651.1	scaffold29	101000	GG	CC	CC	INTERGENIC			
SNP_62090_A_101142	NW_004515651.1	scaffold29	101142	TT	AA	AA	INTERGENIC			
SNP_62091_A_101159	NW_004515651.1	scaffold29	101159	TT	CC	CC	INTERGENIC			
SNP_62092_A_101186	NW_004515651.1	scaffold29	101186	CC	TT	TT	INTERGENIC			
SNP_62093_A_101381	NW_004515651.1	scaffold29	101381	TT	AA	AA	INTERGENIC			
SNP_62094_A_101552	NW_004515651.1	scaffold29	101552	GG	CC	CC	INTERGENIC			
SNP_62095_A_101585	NW_004515651.1	scaffold29	101585	TT	AA	AA	INTERGENIC			
SNP_62096_A_101590	NW_004515651.1	scaffold29	101590	AA	GG	GG	INTERGENIC			
SNP_62097_A_101606	NW_004515651.1	scaffold29	101606	CC	TT	TT	INTERGENIC			
SNP_62098_A_101642	NW_004515651.1	scaffold29	101642	TT	CC	CC	INTERGENIC			
SNP_62099_A_101654	NW_004515651.1	scaffold29	101654	TT	CC	CC	INTERGENIC			
SNP_62100_A_101659	NW_004515651.1	scaffold29	101659	CC	TT	TT	INTERGENIC			
SNP_62101_A_101693	NW_004515651.1	scaffold29	101693	CC	GG	GG	INTERGENIC			
SNP_62102_A_101808	NW_004515651.1	scaffold29	101808	AA	CC	CC	INTERGENIC			
SNP_62103_A_101913	NW_004515651.1	scaffold29	101913	GG	AA	AA	INTERGENIC			
SNP_62104_A_102046	NW_004515651.1	scaffold29	102046	GG	AA	AA	INTERGENIC			
SNP_62105_A_102060	NW_004515651.1	scaffold29	102060	CC	AA	AA	INTERGENIC			
SNP_62106_A_102139	NW_004515651.1	scaffold29	102139	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62107_A_102281	NW_004515651.1	scaffold29	102281	GG	CC	CC	INTERGENIC			
SNP_62108_A_102321	NW_004515651.1	scaffold29	102321	AA	GG	GG	INTERGENIC			
SNP_62109_A_102508	NW_004515651.1	scaffold29	102508	GG	AA	AA	INTERGENIC			
SNP_62110_A_102545	NW_004515651.1	scaffold29	102545	GG	AA	AA	INTERGENIC			
SNP_62111_A_102549	NW_004515651.1	scaffold29	102549	AA	CC	CC	INTERGENIC			
SNP_62112_A_102616	NW_004515651.1	scaffold29	102616	AA	CC	CC	INTERGENIC			
SNP_62113_A_102617	NW_004515651.1	scaffold29	102617	TT	GG	GG	INTERGENIC			
SNP_62114_A_102962	NW_004515651.1	scaffold29	102962	GG	AA	AA	INTERGENIC			
SNP_62115_A_108648	NW_004515651.1	scaffold29	108648	GG	TT	TT	INTERGENIC			
SNP_62116_A_108921	NW_004515651.1	scaffold29	108921	TT	CC	CC	INTERGENIC			
SNP_62117_A_109240	NW_004515651.1	scaffold29	109240	GG	AA	AA	INTERGENIC			
SNP_62118_A_109507	NW_004515651.1	scaffold29	109507	GG	AA	AA	INTERGENIC			
SNP_62120_A_112031	NW_004515651.1	scaffold29	112031	TT	CC	CC	INTERGENIC			
SNP_62121_A_116086	NW_004515651.1	scaffold29	116086	CC	AA	AA	INTERGENIC			
SNP_62122_A_118112	NW_004515651.1	scaffold29	118112	GG	TT	TT	INTERGENIC			
SNP_62123_A_118140	NW_004515651.1	scaffold29	118140	GG	TT	TT	INTERGENIC			
SNP_62124_A_118141	NW_004515651.1	scaffold29	118141	TT	CC	CC	INTERGENIC			
SNP_62125_A_118164	NW_004515651.1	scaffold29	118164	AA	GG	GG	INTERGENIC			
SNP_62126_A_118207	NW_004515651.1	scaffold29	118207	TT	CC	CC	INTERGENIC			
SNP_62127_A_120029	NW_004515651.1	scaffold29	120029	CC	TT	TT	INTERGENIC			
SNP_62128_A_120040	NW_004515651.1	scaffold29	120040	TT	CC	CC	INTERGENIC			
SNP_62129_A_120063	NW_004515651.1	scaffold29	120063	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62130_A_120082	NW_004515651.1	scaffold29	120082	TT	CC	CC	INTERGENIC			
SNP_62131_A_120119	NW_004515651.1	scaffold29	120119	AA	GG	GG	INTERGENIC			
SNP_62132_A_120135	NW_004515651.1	scaffold29	120135	CC	TT	TT	INTERGENIC			
SNP_62133_A_120138	NW_004515651.1	scaffold29	120138	TT	AA	AA	INTERGENIC			
SNP_62134_A_120275	NW_004515651.1	scaffold29	120275	TT	GG	GG	INTERGENIC			
SNP_62135_A_120317	NW_004515651.1	scaffold29	120317	CC	AA	AA	INTERGENIC			
SNP_62136_A_120407	NW_004515651.1	scaffold29	120407	AA	GG	GG	INTERGENIC			
SNP_62137_A_120500	NW_004515651.1	scaffold29	120500	GG	AA	AA	INTERGENIC			
SNP_62138_A_120801	NW_004515651.1	scaffold29	120801	TT	CC	CC	INTERGENIC			
SNP_62139_A_120892	NW_004515651.1	scaffold29	120892	AA	TT	TT	INTERGENIC			
SNP_62140_A_120929	NW_004515651.1	scaffold29	120929	AA	GG	GG	INTERGENIC			
SNP_62141_A_120959	NW_004515651.1	scaffold29	120959	AA	TT	TT	INTERGENIC			
SNP_62142_A_121000	NW_004515651.1	scaffold29	121000	GG	TT	TT	INTERGENIC			
SNP_62143_A_121048	NW_004515651.1	scaffold29	121048	AA	CC	CC	INTERGENIC			
SNP_62144_A_121063	NW_004515651.1	scaffold29	121063	GG	CC	CC	INTERGENIC			
SNP_62145_A_134810	NW_004515651.1	scaffold29	134810	TT	AA	AA	INTERGENIC			
SNP_62146_A_134841	NW_004515651.1	scaffold29	134841	TT	CC	CC	INTERGENIC			
SNP_62147_A_134874	NW_004515651.1	scaffold29	134874	CC	AA	AA	INTERGENIC			
SNP_62148_A_134952	NW_004515651.1	scaffold29	134952	TT	CC	CC	INTERGENIC			
SNP_62149_A_134953	NW_004515651.1	scaffold29	134953	GG	AA	AA	INTERGENIC			
SNP_62150_A_134958	NW_004515651.1	scaffold29	134958	CC	GG	GG	INTERGENIC			
SNP_62151_A_134960	NW_004515651.1	scaffold29	134960	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62152_A_134965	NW_004515651.1	scaffold29	134965	CC	AA	AA	INTERGENIC			
SNP_62153_A_134973	NW_004515651.1	scaffold29	134973	AA	TT	TT	INTERGENIC			
SNP_62154_A_134988	NW_004515651.1	scaffold29	134988	TT	AA	AA	INTERGENIC			
SNP_62155_A_134989	NW_004515651.1	scaffold29	134989	TT	AA	AA	INTERGENIC			
SNP_62156_A_135009	NW_004515651.1	scaffold29	135009	CC	AA	AA	INTERGENIC			
SNP_62157_A_135027	NW_004515651.1	scaffold29	135027	TT	AA	AA	INTERGENIC			
SNP_62158_A_135066	NW_004515651.1	scaffold29	135066	TT	GG	GG	INTERGENIC			
SNP_62159_A_135067	NW_004515651.1	scaffold29	135067	TT	CC	CC	INTERGENIC			
SNP_62160_A_135263	NW_004515651.1	scaffold29	135263	AA	GG	GG	INTERGENIC			
SNP_62161_A_135421	NW_004515651.1	scaffold29	135421	TT	CC	CC	INTERGENIC			
SNP_62162_A_135429	NW_004515651.1	scaffold29	135429	GG	CC	CC	INTERGENIC			
SNP_62163_A_137620	NW_004515651.1	scaffold29	137620	TT	AA	AA	INTERGENIC			
SNP_62164_A_137657	NW_004515651.1	scaffold29	137657	TT	AA	AA	INTERGENIC			
SNP_62165_A_137803	NW_004515651.1	scaffold29	137803	TT	AA	AA	INTERGENIC			
SNP_62166_A_137849	NW_004515651.1	scaffold29	137849	TT	GG	GG	INTERGENIC			
SNP_62167_A_137857	NW_004515651.1	scaffold29	137857	TT	GG	GG	INTERGENIC			
SNP_62168_A_137892	NW_004515651.1	scaffold29	137892	TT	CC	CC	INTERGENIC			
SNP_62169_A_138079	NW_004515651.1	scaffold29	138079	CC	GG	GG	INTERGENIC			
SNP_62170_A_138182	NW_004515651.1	scaffold29	138182	GG	CC	CC	INTERGENIC			
SNP_62171_A_138237	NW_004515651.1	scaffold29	138237	GG	AA	AA	INTERGENIC			
SNP_62172_A_138284	NW_004515651.1	scaffold29	138284	CC	GG	GG	INTERGENIC			
SNP_62173_A_138344	NW_004515651.1	scaffold29	138344	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62174_A_138381	NW_004515651.1	scaffold29	138381	TT	CC	CC	INTERGENIC			
SNP_62175_A_138419	NW_004515651.1	scaffold29	138419	GG	TT	TT	INTERGENIC			
SNP_62176_A_138436	NW_004515651.1	scaffold29	138436	GG	AA	AA	INTERGENIC			
SNP_62177_A_138437	NW_004515651.1	scaffold29	138437	AA	TT	TT	INTERGENIC			
SNP_62178_A_138513	NW_004515651.1	scaffold29	138513	TT	CC	CC	INTERGENIC			
SNP_62179_A_138971	NW_004515651.1	scaffold29	138971	CC	GG	GG	INTERGENIC			
SNP_62180_A_145033	NW_004515651.1	scaffold29	145033	TT	CC	CC	INTERGENIC			
SNP_62181_A_145215	NW_004515651.1	scaffold29	145215	AA	GG	GG	INTERGENIC			
SNP_62182_A_145230	NW_004515651.1	scaffold29	145230	AA	TT	TT	INTERGENIC			
SNP_62183_A_145309	NW_004515651.1	scaffold29	145309	TT	AA	AA	INTERGENIC			
SNP_62184_A_145346	NW_004515651.1	scaffold29	145346	AA	CC	CC	INTERGENIC			
SNP_62185_A_145356	NW_004515651.1	scaffold29	145356	TT	GG	GG	INTERGENIC			
SNP_62186_A_145366	NW_004515651.1	scaffold29	145366	TT	GG	GG	INTERGENIC			
SNP_62187_A_145524	NW_004515651.1	scaffold29	145524	CC	TT	TT	INTERGENIC			
SNP_62188_A_145632	NW_004515651.1	scaffold29	145632	GG	AA	AA	INTERGENIC			
SNP_62189_A_147095	NW_004515651.1	scaffold29	147095	TT	GG	GG	INTERGENIC			
SNP_62190_A_147118	NW_004515651.1	scaffold29	147118	CC	TT	TT	INTERGENIC			
SNP_62191_A_147275	NW_004515651.1	scaffold29	147275	CC	TT	TT	INTERGENIC			
SNP_62192_A_147284	NW_004515651.1	scaffold29	147284	AA	TT	TT	INTERGENIC			
SNP_62193_A_147286	NW_004515651.1	scaffold29	147286	TT	AA	AA	INTERGENIC			
SNP_62194_A_147411	NW_004515651.1	scaffold29	147411	AA	GG	GG	INTERGENIC			
SNP_62195_A_147502	NW_004515651.1	scaffold29	147502	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62196_A_147510	NW_004515651.1	scaffold29	147510	TT	AA	AA	INTERGENIC			
SNP_62197_A_147626	NW_004515651.1	scaffold29	147626	TT	AA	AA	INTERGENIC			
SNP_62198_A_147654	NW_004515651.1	scaffold29	147654	GG	AA	AA	INTERGENIC			
SNP_62199_A_150801	NW_004515651.1	scaffold29	150801	CC	TT	TT	INTERGENIC			
SNP_62200_A_150807	NW_004515651.1	scaffold29	150807	AA	GG	GG	INTERGENIC			
SNP_62201_A_150840	NW_004515651.1	scaffold29	150840	TT	GG	GG	INTERGENIC			
SNP_62202_A_150844	NW_004515651.1	scaffold29	150844	TT	GG	GG	INTERGENIC			
SNP_62203_A_150898	NW_004515651.1	scaffold29	150898	GG	AA	AA	INTERGENIC			
SNP_62204_A_150929	NW_004515651.1	scaffold29	150929	AA	TT	TT	INTERGENIC			
SNP_62205_A_150936	NW_004515651.1	scaffold29	150936	TT	CC	CC	INTERGENIC			
SNP_62206_A_151154	NW_004515651.1	scaffold29	151154	AA	GG	GG	INTERGENIC			
SNP_62207_A_151166	NW_004515651.1	scaffold29	151166	TT	GG	GG	INTERGENIC			
SNP_62208_A_163993	NW_004515651.1	scaffold29	163993	AA	GG	GG	INTERGENIC			
SNP_62209_A_167403	NW_004515651.1	scaffold29	167403	GG	TT	TT	INTERGENIC			
SNP_62210_A_186959	NW_004515651.1	scaffold29	186959	AA	TT	TT	INTERGENIC			
SNP_62211_A_198427	NW_004515651.1	scaffold29	198427	CC	AA	AA	INTERGENIC			
SNP_62213_A_200926	NW_004515651.1	scaffold29	200926	AA	GG	GG	INTERGENIC			
SNP_62214_A_200958	NW_004515651.1	scaffold29	200958	TT	CC	CC	INTERGENIC			
SNP_62215_A_209496	NW_004515651.1	scaffold29	209496	TT	GG	GG	INTERGENIC			
SNP_62216_A_209543	NW_004515651.1	scaffold29	209543	AA	CC	CC	INTERGENIC			
SNP_62217_A_209562	NW_004515651.1	scaffold29	209562	GG	AA	AA	INTERGENIC			
SNP_62218_A_209571	NW_004515651.1	scaffold29	209571	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62219_A_209682	NW_004515651.1	scaffold29	209682	CC	TT	TT	INTERGENIC			
SNP_62220_A_209690	NW_004515651.1	scaffold29	209690	TT	GG	GG	INTERGENIC			
SNP_62221_A_209711	NW_004515651.1	scaffold29	209711	AA	GG	GG	INTERGENIC			
SNP_62222_A_209754	NW_004515651.1	scaffold29	209754	GG	TT	TT	INTERGENIC			
SNP_62223_A_209764	NW_004515651.1	scaffold29	209764	TT	CC	CC	INTERGENIC			
SNP_62224_A_218462	NW_004515651.1	scaffold29	218462	GG	AA	AA	INTERGENIC			
SNP_62225_A_226371	NW_004515651.1	scaffold29	226371	CC	GG	GG	INTERGENIC			
SNP_62226_A_230378	NW_004515651.1	scaffold29	230378	CC	TT	TT	INTERGENIC			
SNP_62227_A_230379	NW_004515651.1	scaffold29	230379	AA	GG	GG	INTERGENIC			
SNP_62228_A_230732	NW_004515651.1	scaffold29	230732	GG	TT	TT	INTERGENIC			
SNP_62229_A_234317	NW_004515651.1	scaffold29	234317	CC	AA	AA	INTERGENIC			
SNP_62230_A_234373	NW_004515651.1	scaffold29	234373	CC	TT	TT	INTERGENIC			
SNP_62231_A_234374	NW_004515651.1	scaffold29	234374	AA	GG	GG	INTERGENIC			
SNP_62232_A_234785	NW_004515651.1	scaffold29	234785	TT	CC	CC	INTERGENIC			
SNP_62233_A_236577	NW_004515651.1	scaffold29	236577	GG	TT	TT	INTERGENIC			
SNP_62234_A_238914	NW_004515651.1	scaffold29	238914	CC	TT	TT	INTERGENIC			
SNP_62235_A_238929	NW_004515651.1	scaffold29	238929	TT	CC	CC	INTERGENIC			
SNP_62236_A_238954	NW_004515651.1	scaffold29	238954	GG	AA	AA	INTERGENIC			
SNP_62237_A_239332	NW_004515651.1	scaffold29	239332	AA	GG	GG	INTERGENIC			
SNP_62238_A_240217	NW_004515651.1	scaffold29	240217	AA	GG	GG	INTERGENIC			
SNP_62239_A_241581	NW_004515651.1	scaffold29	241581	TT	AA	AA	INTERGENIC			
SNP_62240_A_241648	NW_004515651.1	scaffold29	241648	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62241_A_241941	NW_004515651.1	scaffold29	241941	GG	TT	TT	INTERGENIC			
SNP_62242_A_242312	NW_004515651.1	scaffold29	242312	AA	CC	CC	INTERGENIC			
SNP_62243_A_242313	NW_004515651.1	scaffold29	242313	CC	GG	GG	INTERGENIC			
SNP_62244_A_242375	NW_004515651.1	scaffold29	242375	AA	TT	TT	INTERGENIC			
SNP_62245_A_830	NW_004515652.1	scaffold30	830	CC	AA	AA	INTERGENIC			
SNP_62246_A_1564	NW_004515652.1	scaffold30	1564	AA	TT	TT	INTERGENIC			
SNP_62247_A_1813	NW_004515652.1	scaffold30	1813	TT	GG	GG	INTERGENIC			
SNP_62248_A_1828	NW_004515652.1	scaffold30	1828	TT	CC	CC	INTERGENIC			
SNP_62249_A_1873	NW_004515652.1	scaffold30	1873	TT	CC	CC	INTERGENIC			
SNP_62250_A_1908	NW_004515652.1	scaffold30	1908	AA	GG	GG	INTERGENIC			
SNP_62251_A_1912	NW_004515652.1	scaffold30	1912	GG	AA	AA	INTERGENIC			
SNP_62252_A_1921	NW_004515652.1	scaffold30	1921	AA	CC	CC	INTERGENIC			
SNP_62253_A_1936	NW_004515652.1	scaffold30	1936	TT	CC	CC	INTERGENIC			
SNP_62254_A_1946	NW_004515652.1	scaffold30	1946	GG	AA	AA	INTERGENIC			
SNP_62255_A_1984	NW_004515652.1	scaffold30	1984	TT	CC	CC	INTERGENIC			
SNP_62256_A_1992	NW_004515652.1	scaffold30	1992	TT	CC	CC	INTERGENIC			
SNP_62257_A_2001	NW_004515652.1	scaffold30	2001	AA	CC	CC	INTERGENIC			
SNP_62258_A_2002	NW_004515652.1	scaffold30	2002	TT	CC	CC	INTERGENIC			
SNP_62259_A_2004	NW_004515652.1	scaffold30	2004	GG	CC	CC	INTERGENIC			
SNP_62260_A_2032	NW_004515652.1	scaffold30	2032	CC	TT	TT	INTERGENIC			
SNP_62261_A_2041	NW_004515652.1	scaffold30	2041	GG	AA	AA	INTERGENIC			
SNP_62262_A_2050	NW_004515652.1	scaffold30	2050	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62263_A_2056	NW_004515652.1	scaffold30	2056	TT	AA	AA	INTERGENIC			
SNP_62264_A_2064	NW_004515652.1	scaffold30	2064	TT	CC	CC	INTERGENIC			
SNP_62265_A_12708	NW_004515652.1	scaffold30	12708	CC	TT	TT	INTERGENIC			
SNP_62266_A_12717	NW_004515652.1	scaffold30	12717	GG	AA	AA	INTERGENIC			
SNP_62267_A_23881	NW_004515652.1	scaffold30	23881	GG	AA	AA	INTERGENIC			
SNP_62268_A_44820	NW_004515652.1	scaffold30	44820	AA	CC	CC	URR	101514107	WD repeat-containing protein 18-like	
SNP_62269_A_67121	NW_004515652.1	scaffold30	67121	AA	TT	TT	INTERGENIC			
SNP_62270_A_68352	NW_004515652.1	scaffold30	68352	AA	GG	GG	INTERGENIC			
SNP_62271_A_78673	NW_004515652.1	scaffold30	78673	TT	AA	AA	INTERGENIC			
SNP_62272_A_78743	NW_004515652.1	scaffold30	78743	TT	CC	CC	INTERGENIC			
SNP_62273_A_78800	NW_004515652.1	scaffold30	78800	CC	AA	AA	INTERGENIC			
SNP_62274_A_84912	NW_004515652.1	scaffold30	84912	AA	GG	GG	INTERGENIC			
SNP_62275_A_85346	NW_004515652.1	scaffold30	85346	AA	GG	GG	INTERGENIC			
SNP_62276_A_85930	NW_004515652.1	scaffold30	85930	TT	GG	GG	INTERGENIC			
SNP_62278_A_86042	NW_004515652.1	scaffold30	86042	TT	CC	CC	INTERGENIC			
SNP_62279_A_86053	NW_004515652.1	scaffold30	86053	CC	TT	TT	INTERGENIC			
SNP_62280_A_86068	NW_004515652.1	scaffold30	86068	CC	TT	TT	INTERGENIC			
SNP_62281_A_86070	NW_004515652.1	scaffold30	86070	CC	TT	TT	INTERGENIC			
SNP_62282_A_86108	NW_004515652.1	scaffold30	86108	GG	CC	CC	INTERGENIC			
SNP_62283_A_86192	NW_004515652.1	scaffold30	86192	TT	CC	CC	INTERGENIC			
SNP_62284_A_89499	NW_004515652.1	scaffold30	89499	GG	AA	AA	INTERGENIC			
SNP_62285_A_93183	NW_004515652.1	scaffold30	93183	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62286_A_93185	NW_004515652.1	scaffold30	93185	CC	AA	AA	INTERGENIC		
SNP_62287_A_98755	NW_004515652.1	scaffold30	98755	AA	CC	CC	INTERGENIC		
SNP_62288_A_98980	NW_004515652.1	scaffold30	98980	TT	AA	AA	INTERGENIC		
SNP_62289_A_110106	NW_004515652.1	scaffold30	110106	TT	AA	AA	INTERGENIC		
SNP_62290_A_111739	NW_004515652.1	scaffold30	111739	AA	TT	TT	INTERGENIC		
SNP_62291_A_119454	NW_004515652.1	scaffold30	119454	TT	CC	CC	INTERGENIC		
SNP_62292_A_119455	NW_004515652.1	scaffold30	119455	TT	CC	CC	INTERGENIC		
SNP_62293_A_135829	NW_004515652.1	scaffold30	135829	GG	AA	AA	INTERGENIC		
SNP_62294_A_136493	NW_004515652.1	scaffold30	136493	GG	AA	AA	INTERGENIC		
SNP_62295_A_136523	NW_004515652.1	scaffold30	136523	AA	CC	CC	INTERGENIC		
SNP_62296_A_136525	NW_004515652.1	scaffold30	136525	AA	TT	TT	INTERGENIC		
SNP_62297_A_136537	NW_004515652.1	scaffold30	136537	CC	TT	TT	INTERGENIC		
SNP_62298_A_136543	NW_004515652.1	scaffold30	136543	AA	TT	TT	INTERGENIC		
SNP_62299_A_136609	NW_004515652.1	scaffold30	136609	CC	TT	TT	INTERGENIC		
SNP_62300_A_136757	NW_004515652.1	scaffold30	136757	TT	GG	GG	INTERGENIC		
SNP_62301_A_21340	NW_004515653.1	scaffold36	21340	AA	TT	TT	INTERGENIC		
SNP_62302_A_21710	NW_004515653.1	scaffold36	21710	TT	AA	AA	INTERGENIC		
SNP_62303_A_24955	NW_004515653.1	scaffold36	24955	CC	AA	AA	INTERGENIC		
SNP_62304_A_32518	NW_004515653.1	scaffold36	32518	CC	GG	GG	INTERGENIC		
SNP_62305_A_108225	NW_004515653.1	scaffold36	108225	AA	TT	TT	URR	101515633	uncharacterized LOC101515633
SNP_62307_A_151304	NW_004515653.1	scaffold36	151304	CC	TT	TT	INTERGENIC		
SNP_62308_A_203797	NW_004515653.1	scaffold36	203797	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62309_A_214985	NW_004515653.1	scaffold36	214985	AA	TT	TT	INTERGENIC			
SNP_62310_A_214986	NW_004515653.1	scaffold36	214986	TT	AA	AA	INTERGENIC			
SNP_62311_A_214992	NW_004515653.1	scaffold36	214992	TT	GG	GG	INTERGENIC			
SNP_62312_A_215050	NW_004515653.1	scaffold36	215050	CC	AA	AA	INTERGENIC			
SNP_62313_A_215062	NW_004515653.1	scaffold36	215062	AA	TT	TT	INTERGENIC			
SNP_62314_A_215071	NW_004515653.1	scaffold36	215071	TT	CC	CC	INTERGENIC			
SNP_62315_A_215421	NW_004515653.1	scaffold36	215421	CC	TT	TT	INTERGENIC			
SNP_62316_A_221866	NW_004515653.1	scaffold36	221866	AA	GG	GG	INTERGENIC			
SNP_62317_A_221882	NW_004515653.1	scaffold36	221882	CC	AA	AA	INTERGENIC			
SNP_62318_A_221929	NW_004515653.1	scaffold36	221929	TT	CC	CC	INTERGENIC			
SNP_62319_A_221944	NW_004515653.1	scaffold36	221944	GG	TT	TT	INTERGENIC			
SNP_62320_A_221952	NW_004515653.1	scaffold36	221952	GG	AA	AA	INTERGENIC			
SNP_62321_A_221966	NW_004515653.1	scaffold36	221966	GG	AA	AA	INTERGENIC			
SNP_62322_A_221969	NW_004515653.1	scaffold36	221969	TT	CC	CC	INTERGENIC			
SNP_62323_A_221999	NW_004515653.1	scaffold36	221999	AA	CC	CC	INTERGENIC			
SNP_62324_A_222030	NW_004515653.1	scaffold36	222030	GG	CC	CC	INTERGENIC			
SNP_62325_A_222063	NW_004515653.1	scaffold36	222063	GG	TT	TT	INTERGENIC			
SNP_62326_A_222067	NW_004515653.1	scaffold36	222067	TT	GG	GG	INTERGENIC			
SNP_62327_A_222139	NW_004515653.1	scaffold36	222139	TT	CC	CC	INTERGENIC			
SNP_62328_A_222164	NW_004515653.1	scaffold36	222164	TT	GG	GG	INTERGENIC			
SNP_62329_A_222225	NW_004515653.1	scaffold36	222225	AA	TT	TT	INTERGENIC			
SNP_62330_A_222327	NW_004515653.1	scaffold36	222327	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62331_A_222343	NW_004515653.1	scaffold36	222343	GG	TT	TT	INTERGENIC			
SNP_62332_A_222396	NW_004515653.1	scaffold36	222396	GG	CC	CC	INTERGENIC			
SNP_62333_A_228215	NW_004515653.1	scaffold36	228215	TT	AA	AA	INTERGENIC			
SNP_62334_A_228223	NW_004515653.1	scaffold36	228223	AA	GG	GG	INTERGENIC			
SNP_62335_A_236798	NW_004515653.1	scaffold36	236798	TT	CC	CC	INTERGENIC			
SNP_62336_A_236808	NW_004515653.1	scaffold36	236808	TT	AA	AA	INTERGENIC			
SNP_62337_A_236827	NW_004515653.1	scaffold36	236827	GG	AA	AA	INTERGENIC			
SNP_62338_A_236838	NW_004515653.1	scaffold36	236838	AA	TT	TT	INTERGENIC			
SNP_62339_A_236898	NW_004515653.1	scaffold36	236898	AA	TT	TT	INTERGENIC			
SNP_62340_A_241512	NW_004515653.1	scaffold36	241512	AA	GG	GG	INTERGENIC			
SNP_62341_A_241536	NW_004515653.1	scaffold36	241536	TT	AA	AA	INTERGENIC			
SNP_62342_A_258104	NW_004515653.1	scaffold36	258104	TT	AA	AA	INTERGENIC			
SNP_62343_A_261041	NW_004515653.1	scaffold36	261041	TT	GG	GG	INTERGENIC			
SNP_62344_A_261238	NW_004515653.1	scaffold36	261238	GG	TT	TT	INTERGENIC			
SNP_62345_A_267312	NW_004515653.1	scaffold36	267312	GG	CC	CC	INTERGENIC			
SNP_62346_A_267319	NW_004515653.1	scaffold36	267319	TT	CC	CC	INTERGENIC			
SNP_62347_A_283426	NW_004515653.1	scaffold36	283426	TT	CC	CC	INTERGENIC			
SNP_62348_A_283455	NW_004515653.1	scaffold36	283455	AA	CC	CC	INTERGENIC			
SNP_62349_A_283477	NW_004515653.1	scaffold36	283477	CC	AA	AA	INTERGENIC			
SNP_62351_A_307959	NW_004515653.1	scaffold36	307959	TT	GG	GG	INTERGENIC			
SNP_62352_A_308013	NW_004515653.1	scaffold36	308013	GG	TT	TT	INTERGENIC			
SNP_62353_A_308369	NW_004515653.1	scaffold36	308369	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62354_A_308577	NW_004515653.1	scaffold36	308577	CC	TT	TT	INTERGENIC		
SNP_62355_A_308583	NW_004515653.1	scaffold36	308583	TT	CC	CC	INTERGENIC		
SNP_62356_A_308628	NW_004515653.1	scaffold36	308628	CC	TT	TT	INTERGENIC		
SNP_62357_A_308702	NW_004515653.1	scaffold36	308702	TT	CC	CC	INTERGENIC		
SNP_62358_A_308724	NW_004515653.1	scaffold36	308724	AA	GG	GG	INTERGENIC		
SNP_62359_A_317102	NW_004515653.1	scaffold36	317102	CC	AA	AA	INTERGENIC		
SNP_62360_A_317104	NW_004515653.1	scaffold36	317104	GG	CC	CC	INTERGENIC		
SNP_62361_A_319867	NW_004515653.1	scaffold36	319867	AA	GG	GG	DRR	101490565	uncharacterized LOC101490565
SNP_62362_A_319913	NW_004515653.1	scaffold36	319913	AA	CC	CC	DRR	101490565	uncharacterized LOC101490565
SNP_62363_A_319947	NW_004515653.1	scaffold36	319947	CC	AA	AA	DRR	101490565	uncharacterized LOC101490565
SNP_62364_A_319971	NW_004515653.1	scaffold36	319971	TT	CC	CC	DRR	101490565	uncharacterized LOC101490565
SNP_62365_A_319977	NW_004515653.1	scaffold36	319977	AA	TT	TT	DRR	101490565	uncharacterized LOC101490565
SNP_62366_A_319985	NW_004515653.1	scaffold36	319985	TT	CC	CC	DRR	101490565	uncharacterized LOC101490565
SNP_62367_A_320290	NW_004515653.1	scaffold36	320290	CC	TT	TT	DRR	101490565	uncharacterized LOC101490565
SNP_62368_A_326430	NW_004515653.1	scaffold36	326430	CC	TT	TT	INTERGENIC		
SNP_62369_A_330694	NW_004515653.1	scaffold36	330694	GG	AA	AA	INTERGENIC		
SNP_62370_A_330758	NW_004515653.1	scaffold36	330758	AA	TT	TT	INTERGENIC		
SNP_62371_A_336274	NW_004515653.1	scaffold36	336274	CC	TT	TT	INTERGENIC		
SNP_62372_A_15321	NW_004515654.1	scaffold37	15321	AA	TT	TT	INTERGENIC		
SNP_62373_A_22749	NW_004515654.1	scaffold37	22749	TT	CC	CC	INTERGENIC		
SNP_62374_A_22763	NW_004515654.1	scaffold37	22763	TT	AA	AA	INTERGENIC		
SNP_62375_A_22886	NW_004515654.1	scaffold37	22886	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62376_A_40046	NW_004515654.1	scaffold37	40046	AA	CC	CC	INTERGENIC			
SNP_62377_A_85848	NW_004515654.1	scaffold37	85848	TT	CC	CC	INTERGENIC			
SNP_62378_A_88515	NW_004515654.1	scaffold37	88515	TT	GG	GG	INTERGENIC			
SNP_62379_A_115450	NW_004515654.1	scaffold37	115450	TT	CC	CC	INTERGENIC			
SNP_62380_A_126732	NW_004515654.1	scaffold37	126732	GG	AA	AA	INTERGENIC			
SNP_62381_A_134284	NW_004515654.1	scaffold37	134284	AA	CC	CC	INTERGENIC			
SNP_62382_A_134329	NW_004515654.1	scaffold37	134329	AA	TT	TT	INTERGENIC			
SNP_62383_A_134378	NW_004515654.1	scaffold37	134378	TT	AA	AA	INTERGENIC			
SNP_62384_A_134470	NW_004515654.1	scaffold37	134470	GG	TT	TT	INTERGENIC			
SNP_62385_A_134546	NW_004515654.1	scaffold37	134546	CC	TT	TT	INTERGENIC			
SNP_62386_A_134562	NW_004515654.1	scaffold37	134562	GG	TT	TT	INTERGENIC			
SNP_62387_A_134585	NW_004515654.1	scaffold37	134585	TT	CC	CC	INTERGENIC			
SNP_62388_A_134641	NW_004515654.1	scaffold37	134641	CC	TT	TT	INTERGENIC			
SNP_62389_A_134653	NW_004515654.1	scaffold37	134653	AA	GG	GG	INTERGENIC			
SNP_62390_A_134674	NW_004515654.1	scaffold37	134674	TT	GG	GG	INTERGENIC			
SNP_62391_A_134702	NW_004515654.1	scaffold37	134702	CC	TT	TT	INTERGENIC			
SNP_62392_A_134711	NW_004515654.1	scaffold37	134711	GG	AA	AA	INTERGENIC			
SNP_62393_A_136298	NW_004515654.1	scaffold37	136298	TT	GG	GG	INTERGENIC			
SNP_62394_A_136719	NW_004515654.1	scaffold37	136719	AA	GG	GG	INTERGENIC			
SNP_62395_A_136758	NW_004515654.1	scaffold37	136758	CC	TT	TT	INTERGENIC			
SNP_62396_A_136770	NW_004515654.1	scaffold37	136770	TT	GG	GG	INTERGENIC			
SNP_62397_A_136785	NW_004515654.1	scaffold37	136785	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62398_A_136803	NW_004515654.1	scaffold37	136803	GG	TT	TT	INTERGENIC			
SNP_62399_A_160344	NW_004515654.1	scaffold37	160344	AA	GG	GG	INTERGENIC			
SNP_62401_A_160360	NW_004515654.1	scaffold37	160360	GG	TT	TT	INTERGENIC			
SNP_62402_A_8061	NW_004515655.1	scaffold38	8061	GG	TT	TT	INTERGENIC			
SNP_62403_A_8383	NW_004515655.1	scaffold38	8383	GG	AA	AA	INTERGENIC			
SNP_62404_A_9897	NW_004515655.1	scaffold38	9897	TT	CC	CC	INTERGENIC			
SNP_62405_A_9999	NW_004515655.1	scaffold38	9999	AA	CC	CC	INTERGENIC			
SNP_62406_A_10401	NW_004515655.1	scaffold38	10401	TT	CC	CC	INTERGENIC			
SNP_62408_A_43409	NW_004515655.1	scaffold38	43409	GG	AA	AA	INTERGENIC			
SNP_62409_A_55103	NW_004515655.1	scaffold38	55103	GG	AA	AA	INTERGENIC			
SNP_62410_A_56037	NW_004515655.1	scaffold38	56037	GG	AA	AA	INTERGENIC			
SNP_62411_A_67367	NW_004515655.1	scaffold38	67367	CC	TT	TT	INTERGENIC			
SNP_62412_A_69058	NW_004515655.1	scaffold38	69058	AA	GG	GG	INTERGENIC			
SNP_62413_A_73796	NW_004515655.1	scaffold38	73796	AA	CC	CC	INTERGENIC			
SNP_62414_A_74727	NW_004515655.1	scaffold38	74727	TT	CC	CC	INTERGENIC			
SNP_62415_A_75468	NW_004515655.1	scaffold38	75468	GG	CC	CC	INTERGENIC			
SNP_62416_A_78433	NW_004515655.1	scaffold38	78433	GG	TT	TT	INTERGENIC			
SNP_62417_A_78457	NW_004515655.1	scaffold38	78457	TT	CC	CC	INTERGENIC			
SNP_62418_A_78470	NW_004515655.1	scaffold38	78470	AA	GG	GG	INTERGENIC			
SNP_62419_A_78490	NW_004515655.1	scaffold38	78490	CC	TT	TT	INTERGENIC			
SNP_62420_A_83970	NW_004515655.1	scaffold38	83970	CC	TT	TT	INTERGENIC			
SNP_62421_A_96587	NW_004515655.1	scaffold38	96587	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62422_A_96653	NW_004515655.1	scaffold38	96653	AA	GG	GG	INTERGENIC		
SNP_62423_A_98150	NW_004515655.1	scaffold38	98150	GG	AA	AA	INTERGENIC		
SNP_62424_A_98598	NW_004515655.1	scaffold38	98598	TT	CC	CC	INTERGENIC		
SNP_62425_A_98701	NW_004515655.1	scaffold38	98701	GG	AA	AA	INTERGENIC		
SNP_62426_A_114496	NW_004515655.1	scaffold38	114496	AA	TT	TT	INTERGENIC		
SNP_62427_A_122420	NW_004515655.1	scaffold38	122420	GG	AA	AA	INTERGENIC		
SNP_62428_A_129691	NW_004515655.1	scaffold38	129691	AA	GG	GG	INTERGENIC		
SNP_62429_A_129903	NW_004515655.1	scaffold38	129903	GG	AA	AA	INTERGENIC		
SNP_62430_A_130964	NW_004515655.1	scaffold38	130964	AA	GG	GG	INTERGENIC		
SNP_62431_A_133324	NW_004515655.1	scaffold38	133324	TT	CC	CC	INTERGENIC		
SNP_62432_A_133426	NW_004515655.1	scaffold38	133426	AA	GG	GG	INTERGENIC		
SNP_62433_A_133442	NW_004515655.1	scaffold38	133442	CC	TT	TT	INTERGENIC		
SNP_62434_A_133628	NW_004515655.1	scaffold38	133628	AA	GG	GG	INTERGENIC		
SNP_62435_A_133644	NW_004515655.1	scaffold38	133644	TT	CC	CC	INTERGENIC		
SNP_62437_A_137316	NW_004515655.1	scaffold38	137316	AA	GG	GG	INTERGENIC		
SNP_62438_A_137347	NW_004515655.1	scaffold38	137347	TT	CC	CC	INTERGENIC		
SNP_62439_A_137725	NW_004515655.1	scaffold38	137725	GG	TT	TT	INTERGENIC		
SNP_62441_A_141615	NW_004515655.1	scaffold38	141615	AA	TT	TT	INTERGENIC		
SNP_62442_A_186767	NW_004515655.1	scaffold38	186767	CC	TT	TT	INTERGENIC		
SNP_62443_A_188761	NW_004515655.1	scaffold38	188761	GG	AA	AA	INTERGENIC		
SNP_62444_A_200953	NW_004515655.1	scaffold38	200953	AA	GG	GG	INTERGENIC		
SNP_62445_A_205179	NW_004515655.1	scaffold38	205179	CC	TT	TT	INTRON	101494439	uncharacterized LOC101494439

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62446_A_205538	NW_004515655.1	scaffold38	205538	GG	AA	AA	INTRON	101494439	uncharacterized LOC101494439
SNP_62447_A_214576	NW_004515655.1	scaffold38	214576	GG	AA	AA	INTERGENIC		
SNP_62448_A_214911	NW_004515655.1	scaffold38	214911	GG	AA	AA	INTERGENIC		
SNP_62449_A_217242	NW_004515655.1	scaffold38	217242	AA	GG	GG	INTERGENIC		
SNP_62450_A_220048	NW_004515655.1	scaffold38	220048	GG	AA	AA	INTERGENIC		
SNP_62452_A_233823	NW_004515655.1	scaffold38	233823	TT	CC	CC	INTERGENIC		
SNP_62453_A_235124	NW_004515655.1	scaffold38	235124	AA	GG	GG	INTERGENIC		
SNP_62455_A_238661	NW_004515655.1	scaffold38	238661	GG	AA	AA	INTRON	101495081	bidirectional sugar transporter SWEET2-like
SNP_62456_A_243324	NW_004515655.1	scaffold38	243324	CC	TT	TT	INTERGENIC		
SNP_62457_A_244241	NW_004515655.1	scaffold38	244241	CC	TT	TT	INTERGENIC		
SNP_62458_A_246385	NW_004515655.1	scaffold38	246385	CC	TT	TT	INTERGENIC		
SNP_62459_A_248686	NW_004515655.1	scaffold38	248686	TT	CC	CC	INTERGENIC		
SNP_62460_A_252175	NW_004515655.1	scaffold38	252175	CC	AA	AA	INTERGENIC		
SNP_62461_A_252178	NW_004515655.1	scaffold38	252178	AA	GG	GG	INTERGENIC		
SNP_62462_A_252358	NW_004515655.1	scaffold38	252358	GG	CC	TT	INTERGENIC		
SNP_62463_A_252381	NW_004515655.1	scaffold38	252381	TT	CC	CC	INTERGENIC		
SNP_62464_A_261124	NW_004515655.1	scaffold38	261124	TT	AA	AA	INTERGENIC		
SNP_62465_A_261987	NW_004515655.1	scaffold38	261987	GG	AA	AA	INTERGENIC		
SNP_62467_A_262930	NW_004515655.1	scaffold38	262930	GG	AA	AA	INTERGENIC		
SNP_62468_A_272788	NW_004515655.1	scaffold38	272788	CC	GG	GG	INTERGENIC		
SNP_62469_A_275154	NW_004515655.1	scaffold38	275154	GG	AA	AA	INTERGENIC		
SNP_62471_A_281950	NW_004515655.1	scaffold38	281950	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62473_A_289728	NW_004515655.1	scaffold38	289728	AA	GG	GG	INTERGENIC		
SNP_62474_A_290071	NW_004515655.1	scaffold38	290071	TT	CC	CC	INTERGENIC		
SNP_62475_A_290146	NW_004515655.1	scaffold38	290146	TT	CC	CC	INTERGENIC		
SNP_62476_A_291155	NW_004515655.1	scaffold38	291155	CC	TT	TT	INTERGENIC		
SNP_62477_A_318278	NW_004515655.1	scaffold38	318278	GG	TT	TT	INTRON	101495411	uncharacterized LOC101495411
SNP_62478_A_320801	NW_004515655.1	scaffold38	320801	TT	GG	GG	INTRON	101495411	uncharacterized LOC101495411
SNP_62480_A_335663	NW_004515655.1	scaffold38	335663	CC	TT	TT	INTERGENIC		
SNP_62481_A_340650	NW_004515655.1	scaffold38	340650	CC	TT	TT	INTERGENIC		
SNP_62482_A_341421	NW_004515655.1	scaffold38	341421	TT	AA	AA	INTERGENIC		
SNP_62483_A_342920	NW_004515655.1	scaffold38	342920	GG	TT	TT	INTERGENIC		
SNP_62484_A_345181	NW_004515655.1	scaffold38	345181	GG	AA	AA	INTERGENIC		
SNP_62487_A_358657	NW_004515655.1	scaffold38	358657	AA	CC	CC	INTERGENIC		
SNP_62488_A_361233	NW_004515655.1	scaffold38	361233	GG	AA	AA	INTERGENIC		
SNP_62489_A_363473	NW_004515655.1	scaffold38	363473	TT	AA	AA	INTERGENIC		
SNP_62490_A_364107	NW_004515655.1	scaffold38	364107	AA	CC	CC	INTERGENIC		
SNP_62491_A_389908	NW_004515655.1	scaffold38	389908	TT	CC	CC	INTERGENIC		
SNP_62492_A_396949	NW_004515655.1	scaffold38	396949	GG	AA	AA	INTERGENIC		
SNP_62493_A_401121	NW_004515655.1	scaffold38	401121	CC	TT	TT	INTERGENIC		
SNP_62495_A_404468	NW_004515655.1	scaffold38	404468	CC	TT	TT	INTERGENIC		
SNP_62496_A_406507	NW_004515655.1	scaffold38	406507	AA	CC	CC	INTERGENIC		
SNP_62497_A_407101	NW_004515655.1	scaffold38	407101	GG	AA	AA	INTERGENIC		
SNP_62498_A_411922	NW_004515655.1	scaffold38	411922	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62499_A_411941	NW_004515655.1	scaffold38	411941	TT	CC	CC	INTERGENIC		
SNP_62500_A_411987	NW_004515655.1	scaffold38	411987	TT	AA	AA	INTERGENIC		
SNP_62502_A_412267	NW_004515655.1	scaffold38	412267	TT	CC	CC	INTERGENIC		
SNP_62503_A_412291	NW_004515655.1	scaffold38	412291	TT	CC	CC	INTERGENIC		
SNP_62504_A_413785	NW_004515655.1	scaffold38	413785	GG	AA	AA	INTERGENIC		
SNP_62506_A_413837	NW_004515655.1	scaffold38	413837	TT	CC	CC	INTERGENIC		
SNP_62507_A_414086	NW_004515655.1	scaffold38	414086	AA	GG	GG	INTERGENIC		
SNP_62509_A_421832	NW_004515655.1	scaffold38	421832	GG	TT	TT	INTERGENIC		
SNP_62510_A_424457	NW_004515655.1	scaffold38	424457	TT	AA	AA	INTERGENIC		
SNP_62511_A_431286	NW_004515655.1	scaffold38	431286	AA	GG	GG	INTERGENIC		
SNP_62512_A_432687	NW_004515655.1	scaffold38	432687	TT	CC	CC	INTERGENIC		
SNP_62513_A_432783	NW_004515655.1	scaffold38	432783	AA	TT	TT	INTERGENIC		
SNP_62514_A_433968	NW_004515655.1	scaffold38	433968	GG	AA	AA	INTERGENIC		
SNP_62515_A_467119	NW_004515655.1	scaffold38	467119	CC	AA	AA	INTRON	101491830	serine/threonine-protein kinase TIO
SNP_62516_A_471719	NW_004515655.1	scaffold38	471719	CC	TT	TT	URR	101491830	serine/threonine-protein kinase TIO
SNP_62518_A_477168	NW_004515655.1	scaffold38	477168	GG	AA	AA	INTERGENIC		
SNP_62519_A_487822	NW_004515655.1	scaffold38	487822	TT	CC	CC	INTERGENIC		
SNP_62520_A_487861	NW_004515655.1	scaffold38	487861	GG	TT	TT	INTERGENIC		
SNP_62521_A_487925	NW_004515655.1	scaffold38	487925	AA	GG	GG	INTERGENIC		
SNP_62522_A_488476	NW_004515655.1	scaffold38	488476	AA	TT	TT	INTERGENIC		
SNP_62523_A_488542	NW_004515655.1	scaffold38	488542	TT	CC	CC	INTERGENIC		
SNP_62524_A_488945	NW_004515655.1	scaffold38	488945	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62525_A_488973	NW_004515655.1	scaffold38	488973	TT	CC	CC	INTERGENIC		
SNP_62526_A_489218	NW_004515655.1	scaffold38	489218	TT	CC	CC	INTERGENIC		
SNP_62527_A_502133	NW_004515655.1	scaffold38	502133	CC	GG	GG	INTERGENIC		
SNP_62528_A_503805	NW_004515655.1	scaffold38	503805	AA	GG	GG	INTERGENIC		
SNP_62529_A_504299	NW_004515655.1	scaffold38	504299	AA	GG	GG	INTERGENIC		
SNP_62530_A_504349	NW_004515655.1	scaffold38	504349	TT	CC	CC	INTERGENIC		
SNP_62531_A_504366	NW_004515655.1	scaffold38	504366	AA	GG	GG	INTERGENIC		
SNP_62532_A_504391	NW_004515655.1	scaffold38	504391	AA	GG	GG	INTERGENIC		
SNP_62533_A_504401	NW_004515655.1	scaffold38	504401	TT	AA	AA	INTERGENIC		
SNP_62534_A_504413	NW_004515655.1	scaffold38	504413	TT	GG	GG	INTERGENIC		
SNP_62535_A_504417	NW_004515655.1	scaffold38	504417	CC	TT	TT	INTERGENIC		
SNP_62536_A_504432	NW_004515655.1	scaffold38	504432	TT	GG	GG	INTERGENIC		
SNP_62537_A_508917	NW_004515655.1	scaffold38	508917	TT	CC	CC	INTERGENIC		
SNP_62538_A_510286	NW_004515655.1	scaffold38	510286	TT	CC	CC	INTERGENIC		
SNP_62539_A_511966	NW_004515655.1	scaffold38	511966	CC	TT	TT	INTERGENIC		
SNP_62540_A_511981	NW_004515655.1	scaffold38	511981	TT	CC	CC	INTERGENIC		
SNP_62541_A_512790	NW_004515655.1	scaffold38	512790	GG	AA	AA	INTERGENIC		
SNP_62542_A_524232	NW_004515655.1	scaffold38	524232	TT	CC	CC	URR	101492832	uncharacterized LOC101492832
SNP_62543_A_524299	NW_004515655.1	scaffold38	524299	TT	CC	CC	URR	101492832	uncharacterized LOC101492832
SNP_62544_A_524526	NW_004515655.1	scaffold38	524526	CC	GG	GG	NON_SYNONYMOUS_CODING	101492832	uncharacterized LOC101492832
SNP_62545_A_524584	NW_004515655.1	scaffold38	524584	GG	AA	AA	NON_SYNONYMOUS_CODING	101492832	uncharacterized LOC101492832
SNP_62546_A_530889	NW_004515655.1	scaffold38	530889	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62547_A_530901	NW_004515655.1	scaffold38	530901	GG	TT	TT	INTERGENIC		
SNP_62548_A_535510	NW_004515655.1	scaffold38	535510	GG	AA	AA	INTERGENIC		
SNP_62549_A_540326	NW_004515655.1	scaffold38	540326	CC	AA	AA	INTERGENIC		
SNP_62550_A_541439	NW_004515655.1	scaffold38	541439	CC	TT	TT	INTERGENIC		
SNP_62551_A_541795	NW_004515655.1	scaffold38	541795	GG	AA	AA	INTERGENIC		
SNP_62552_A_541839	NW_004515655.1	scaffold38	541839	TT	CC	CC	INTERGENIC		
SNP_62553_A_541844	NW_004515655.1	scaffold38	541844	CC	AA	AA	INTERGENIC		
SNP_62554_A_541876	NW_004515655.1	scaffold38	541876	AA	GG	GG	INTERGENIC		
SNP_62555_A_541918	NW_004515655.1	scaffold38	541918	AA	GG	GG	INTERGENIC		
SNP_62557_A_40146	NW_004515656.1	scaffold39	40146	TT	CC	CC	INTERGENIC		
SNP_62558_A_44789	NW_004515656.1	scaffold39	44789	AA	TT	TT	INTERGENIC		
SNP_62559_A_301	NW_004515657.1	scaffold40	301	TT	GG	GG	INTERGENIC		
SNP_62560_A_906	NW_004515657.1	scaffold40	906	TT	CC	CC	INTERGENIC		
SNP_62561_A_974	NW_004515657.1	scaffold40	974	AA	GG	GG	INTERGENIC		
SNP_62562_A_1155	NW_004515657.1	scaffold40	1155	AA	CC	CC	INTERGENIC		
SNP_62563_A_1157	NW_004515657.1	scaffold40	1157	TT	CC	CC	INTERGENIC		
SNP_62564_A_12442	NW_004515657.1	scaffold40	12442	CC	TT	TT	INTERGENIC		
SNP_62565_A_29994	NW_004515657.1	scaffold40	29994	CC	TT	TT	INTERGENIC		
SNP_62566_A_40457	NW_004515657.1	scaffold40	40457	CC	TT	TT	INTRON	101509483	uncharacterized LOC101509483
SNP_62567_A_40651	NW_004515657.1	scaffold40	40651	AA	GG	GG	INTRON	101509483	uncharacterized LOC101509483
SNP_62568_A_40967	NW_004515657.1	scaffold40	40967	CC	TT	TT	INTRON	101509483	uncharacterized LOC101509483
SNP_62569_A_40969	NW_004515657.1	scaffold40	40969	AA	GG	GG	INTRON	101509483	uncharacterized LOC101509483

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62570_A_41035	NW_004515657.1	scaffold40	41035	GG	TT	TT	INTRON	101509483	uncharacterized LOC101509483
SNP_62574_A_56944	NW_004515657.1	scaffold40	56944	GG	AA	AA	INTRON	101509483	uncharacterized LOC101509483
SNP_62575_A_58162	NW_004515657.1	scaffold40	58162	AA	GG	GG	URR	101509483	uncharacterized LOC101509483
SNP_62576_A_58915	NW_004515657.1	scaffold40	58915	AA	CC	CC	URR	101509483	uncharacterized LOC101509483
SNP_62577_A_58937	NW_004515657.1	scaffold40	58937	TT	CC	CC	URR	101509483	uncharacterized LOC101509483
SNP_62578_A_58986	NW_004515657.1	scaffold40	58986	CC	TT	TT	URR	101509483	uncharacterized LOC101509483
SNP_62579_A_58990	NW_004515657.1	scaffold40	58990	TT	CC	CC	URR	101509483	uncharacterized LOC101509483
SNP_62580_A_58991	NW_004515657.1	scaffold40	58991	GG	TT	TT	URR	101509483	uncharacterized LOC101509483
SNP_62581_A_59033	NW_004515657.1	scaffold40	59033	GG	AA	AA	URR	101509483	uncharacterized LOC101509483
SNP_62582_A_59229	NW_004515657.1	scaffold40	59229	AA	GG	GG	URR	101509483	uncharacterized LOC101509483
SNP_62583_A_59265	NW_004515657.1	scaffold40	59265	TT	CC	CC	URR	101509483	uncharacterized LOC101509483
SNP_62584_A_59336	NW_004515657.1	scaffold40	59336	AA	GG	GG	URR	101509483	uncharacterized LOC101509483
SNP_62585_A_59341	NW_004515657.1	scaffold40	59341	CC	TT	TT	URR	101509483	uncharacterized LOC101509483
SNP_62586_A_59431	NW_004515657.1	scaffold40	59431	GG	TT	TT	INTERGENIC		
SNP_62587_A_59436	NW_004515657.1	scaffold40	59436	GG	CC	CC	INTERGENIC		
SNP_62588_A_59570	NW_004515657.1	scaffold40	59570	CC	TT	TT	INTERGENIC		
SNP_62589_A_59716	NW_004515657.1	scaffold40	59716	TT	CC	CC	INTERGENIC		
SNP_62590_A_59718	NW_004515657.1	scaffold40	59718	AA	GG	GG	INTERGENIC		
SNP_62591_A_59781	NW_004515657.1	scaffold40	59781	TT	CC	CC	INTERGENIC		
SNP_62592_A_68027	NW_004515657.1	scaffold40	68027	TT	GG	GG	INTERGENIC		
SNP_62593_A_68050	NW_004515657.1	scaffold40	68050	TT	CC	CC	INTERGENIC		
SNP_62594_A_68086	NW_004515657.1	scaffold40	68086	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62595_A_71484	NW_004515657.1	scaffold40	71484	AA	GG	GG	INTERGENIC			
SNP_62596_A_76591	NW_004515657.1	scaffold40	76591	TT	CC	CC	INTERGENIC			
SNP_62597_A_76694	NW_004515657.1	scaffold40	76694	TT	CC	CC	INTERGENIC			
SNP_62598_A_76696	NW_004515657.1	scaffold40	76696	GG	AA	AA	INTERGENIC			
SNP_62599_A_76749	NW_004515657.1	scaffold40	76749	TT	CC	CC	INTERGENIC			
SNP_62600_A_98889	NW_004515657.1	scaffold40	98889	TT	CC	CC	INTERGENIC			
SNP_62601_A_99280	NW_004515657.1	scaffold40	99280	CC	AA	AA	INTERGENIC			
SNP_62602_A_100451	NW_004515657.1	scaffold40	100451	TT	CC	CC	INTERGENIC			
SNP_62603_A_100855	NW_004515657.1	scaffold40	100855	CC	TT	TT	INTERGENIC			
SNP_62604_A_100895	NW_004515657.1	scaffold40	100895	TT	CC	CC	INTERGENIC			
SNP_62605_A_101126	NW_004515657.1	scaffold40	101126	AA	TT	TT	INTERGENIC			
SNP_62606_A_101207	NW_004515657.1	scaffold40	101207	TT	AA	AA	INTERGENIC			
SNP_62607_A_101389	NW_004515657.1	scaffold40	101389	TT	CC	CC	INTERGENIC			
SNP_62608_A_101435	NW_004515657.1	scaffold40	101435	GG	AA	AA	INTERGENIC			
SNP_62609_A_101453	NW_004515657.1	scaffold40	101453	GG	CC	CC	INTERGENIC			
SNP_62610_A_101477	NW_004515657.1	scaffold40	101477	AA	GG	GG	INTERGENIC			
SNP_62611_A_101478	NW_004515657.1	scaffold40	101478	GG	AA	AA	INTERGENIC			
SNP_62612_A_101485	NW_004515657.1	scaffold40	101485	TT	CC	CC	INTERGENIC			
SNP_62613_A_101487	NW_004515657.1	scaffold40	101487	AA	TT	TT	INTERGENIC			
SNP_62614_A_101504	NW_004515657.1	scaffold40	101504	CC	TT	TT	INTERGENIC			
SNP_62615_A_101510	NW_004515657.1	scaffold40	101510	CC	TT	TT	INTERGENIC			
SNP_62616_A_101526	NW_004515657.1	scaffold40	101526	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62617_A_101545	NW_004515657.1	scaffold40	101545	GG	AA	AA	INTERGENIC			
SNP_62618_A_101663	NW_004515657.1	scaffold40	101663	TT	AA	AA	INTERGENIC			
SNP_62619_A_101912	NW_004515657.1	scaffold40	101912	CC	GG	GG	INTERGENIC			
SNP_62620_A_102079	NW_004515657.1	scaffold40	102079	AA	GG	GG	INTERGENIC			
SNP_62621_A_108717	NW_004515657.1	scaffold40	108717	GG	AA	AA	INTERGENIC			
SNP_62622_A_111134	NW_004515657.1	scaffold40	111134	AA	GG	GG	INTERGENIC			
SNP_62624_A_133067	NW_004515657.1	scaffold40	133067	AA	TT	TT	INTERGENIC			
SNP_62625_A_133892	NW_004515657.1	scaffold40	133892	TT	AA	AA	INTERGENIC			
SNP_62626_A_133923	NW_004515657.1	scaffold40	133923	CC	TT	TT	INTERGENIC			
SNP_62627_A_133939	NW_004515657.1	scaffold40	133939	CC	TT	TT	INTERGENIC			
SNP_62628_A_133944	NW_004515657.1	scaffold40	133944	AA	GG	GG	INTERGENIC			
SNP_62629_A_135162	NW_004515657.1	scaffold40	135162	TT	CC	CC	INTERGENIC			
SNP_62630_A_135379	NW_004515657.1	scaffold40	135379	AA	CC	CC	INTERGENIC			
SNP_62631_A_135484	NW_004515657.1	scaffold40	135484	TT	AA	AA	INTERGENIC			
SNP_62632_A_191201	NW_004515657.1	scaffold40	191201	TT	CC	CC	INTERGENIC			
SNP_62633_A_212461	NW_004515657.1	scaffold40	212461	TT	CC	CC	INTERGENIC			
SNP_62634_A_212965	NW_004515657.1	scaffold40	212965	TT	GG	GG	INTERGENIC			
SNP_62635_A_212989	NW_004515657.1	scaffold40	212989	AA	GG	GG	INTERGENIC			
SNP_62636_A_212997	NW_004515657.1	scaffold40	212997	TT	CC	CC	INTERGENIC			
SNP_62637_A_213015	NW_004515657.1	scaffold40	213015	AA	GG	GG	INTERGENIC			
SNP_62638_A_213059	NW_004515657.1	scaffold40	213059	GG	AA	AA	INTERGENIC			
SNP_62639_A_214979	NW_004515657.1	scaffold40	214979	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62640_A_229194	NW_004515657.1	scaffold40	229194	TT	GG	GG	INTERGENIC			
SNP_62641_A_229262	NW_004515657.1	scaffold40	229262	GG	AA	AA	INTERGENIC			
SNP_62642_A_229453	NW_004515657.1	scaffold40	229453	TT	CC	CC	INTERGENIC			
SNP_62643_A_229456	NW_004515657.1	scaffold40	229456	GG	TT	TT	INTERGENIC			
SNP_62644_A_229492	NW_004515657.1	scaffold40	229492	AA	TT	TT	INTERGENIC			
SNP_62645_A_229525	NW_004515657.1	scaffold40	229525	AA	GG	GG	INTERGENIC			
SNP_62646_A_229571	NW_004515657.1	scaffold40	229571	AA	TT	TT	INTERGENIC			
SNP_62647_A_229588	NW_004515657.1	scaffold40	229588	AA	GG	GG	INTERGENIC			
SNP_62648_A_229618	NW_004515657.1	scaffold40	229618	CC	TT	TT	INTERGENIC			
SNP_62649_A_229690	NW_004515657.1	scaffold40	229690	CC	AA	AA	INTERGENIC			
SNP_62650_A_229693	NW_004515657.1	scaffold40	229693	TT	GG	GG	INTERGENIC			
SNP_62651_A_362866	NW_004515657.1	scaffold40	362866	GG	AA	AA	INTERGENIC			
SNP_62652_A_362911	NW_004515657.1	scaffold40	362911	TT	CC	CC	INTERGENIC			
SNP_62653_A_362999	NW_004515657.1	scaffold40	362999	TT	AA	AA	INTERGENIC			
SNP_62654_A_363106	NW_004515657.1	scaffold40	363106	TT	CC	CC	INTERGENIC			
SNP_62655_A_363131	NW_004515657.1	scaffold40	363131	GG	AA	AA	INTERGENIC			
SNP_62656_A_363235	NW_004515657.1	scaffold40	363235	CC	TT	TT	INTERGENIC			
SNP_62657_A_363280	NW_004515657.1	scaffold40	363280	AA	TT	TT	INTERGENIC			
SNP_62658_A_363469	NW_004515657.1	scaffold40	363469	CC	TT	TT	INTERGENIC			
SNP_62659_A_363494	NW_004515657.1	scaffold40	363494	CC	TT	TT	INTERGENIC			
SNP_62660_A_405074	NW_004515657.1	scaffold40	405074	AA	CC	CC	INTERGENIC			
SNP_62662_A_405102	NW_004515657.1	scaffold40	405102	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62663_A_437123	NW_004515657.1	scaffold40	437123	CC	TT	TT	INTRON	101497262	cysteine proteinase inhibitor-like
SNP_62665_A_466819	NW_004515657.1	scaffold40	466819	CC	GG	GG	STOP_GAINED	101510774	phytochromobilin:ferredoxin oxidoreductase, chloroplastic-like
SNP_62667_A_616444	NW_004515657.1	scaffold40	616444	TT	CC	CC	INTERGENIC		
SNP_62668_A_648918	NW_004515657.1	scaffold40	648918	TT	CC	CC	URR	101502726	pectinesterase 1-like
SNP_62669_A_756112	NW_004515657.1	scaffold40	756112	TT	AA	AA	INTERGENIC		
SNP_62671_A_799562	NW_004515657.1	scaffold40	799562	AA	TT	TT	INTERGENIC		
SNP_62672_A_799917	NW_004515657.1	scaffold40	799917	GG	AA	AA	INTERGENIC		
SNP_62673_A_800095	NW_004515657.1	scaffold40	800095	GG	TT	TT	INTERGENIC		
SNP_62674_A_800100	NW_004515657.1	scaffold40	800100	GG	AA	AA	INTERGENIC		
SNP_62675_A_809434	NW_004515657.1	scaffold40	809434	TT	CC	CC	INTERGENIC		
SNP_62676_A_819201	NW_004515657.1	scaffold40	819201	CC	GG	GG	INTERGENIC		
SNP_62677_A_839679	NW_004515657.1	scaffold40	839679	TT	CC	CC	INTERGENIC		
SNP_62678_A_862625	NW_004515657.1	scaffold40	862625	TT	CC	CC	INTERGENIC		
SNP_62679_A_892266	NW_004515657.1	scaffold40	892266	TT	GG	GG	INTRON	id194189	Unknown function
SNP_62681_A_929378	NW_004515657.1	scaffold40	929378	GG	AA	AA	INTERGENIC		
SNP_62682_A_937547	NW_004515657.1	scaffold40	937547	TT	CC	CC	INTERGENIC		
SNP_62683_A_938150	NW_004515657.1	scaffold40	938150	AA	TT	TT	INTERGENIC		
SNP_62684_A_939828	NW_004515657.1	scaffold40	939828	TT	CC	CC	INTERGENIC		
SNP_62685_A_967409	NW_004515657.1	scaffold40	967409	TT	CC	CC	INTRON	101506495	uncharacterized LOC101506495
SNP_62687_A_1030439	NW_004515657.1	scaffold40	1030439	CC	TT	TT	DRR	101508310	purple acid phosphatase 17-like
SNP_62688_A_25125	NW_004515658.1	scaffold41	25125	CC	TT	TT	INTERGENIC		
SNP_62689_A_25143	NW_004515658.1	scaffold41	25143	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62690_A_25153	NW_004515658.1	scaffold41	25153	TT	CC	CC	INTERGENIC			
SNP_62691_A_25161	NW_004515658.1	scaffold41	25161	GG	TT	TT	INTERGENIC			
SNP_62692_A_25162	NW_004515658.1	scaffold41	25162	CC	AA	AA	INTERGENIC			
SNP_62693_A_25164	NW_004515658.1	scaffold41	25164	CC	TT	TT	INTERGENIC			
SNP_62694_A_25182	NW_004515658.1	scaffold41	25182	TT	CC	CC	INTERGENIC			
SNP_62695_A_25237	NW_004515658.1	scaffold41	25237	GG	AA	AA	INTERGENIC			
SNP_62696_A_25249	NW_004515658.1	scaffold41	25249	TT	GG	GG	INTERGENIC			
SNP_62697_A_25260	NW_004515658.1	scaffold41	25260	TT	CC	CC	INTERGENIC			
SNP_62698_A_25266	NW_004515658.1	scaffold41	25266	CC	TT	TT	INTERGENIC			
SNP_62699_A_25296	NW_004515658.1	scaffold41	25296	GG	TT	TT	INTERGENIC			
SNP_62700_A_25329	NW_004515658.1	scaffold41	25329	GG	AA	AA	INTERGENIC			
SNP_62701_A_25555	NW_004515658.1	scaffold41	25555	GG	AA	AA	INTERGENIC			
SNP_62702_A_33549	NW_004515658.1	scaffold41	33549	CC	GG	GG	INTERGENIC			
SNP_62703_A_109304	NW_004515658.1	scaffold41	109304	CC	TT	TT	INTERGENIC			
SNP_62704_A_109683	NW_004515658.1	scaffold41	109683	AA	TT	TT	INTERGENIC			
SNP_62705_A_113817	NW_004515658.1	scaffold41	113817	AA	GG	GG	INTERGENIC			
SNP_62706_A_114018	NW_004515658.1	scaffold41	114018	AA	TT	TT	INTERGENIC			
SNP_62707_A_114062	NW_004515658.1	scaffold41	114062	TT	AA	AA	INTERGENIC			
SNP_62708_A_114068	NW_004515658.1	scaffold41	114068	AA	TT	TT	INTERGENIC			
SNP_62709_A_114118	NW_004515658.1	scaffold41	114118	GG	CC	CC	INTERGENIC			
SNP_62711_A_114445	NW_004515658.1	scaffold41	114445	CC	TT	TT	INTERGENIC			
SNP_62712_A_114744	NW_004515658.1	scaffold41	114744	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62713_A_114772	NW_004515658.1	scaffold41	114772	TT	AA	AA	INTERGENIC			
SNP_62714_A_114808	NW_004515658.1	scaffold41	114808	AA	GG	GG	INTERGENIC			
SNP_62715_A_114861	NW_004515658.1	scaffold41	114861	TT	CC	CC	INTERGENIC			
SNP_62716_A_115163	NW_004515658.1	scaffold41	115163	TT	GG	GG	INTERGENIC			
SNP_62717_A_115295	NW_004515658.1	scaffold41	115295	AA	GG	GG	INTERGENIC			
SNP_62718_A_116465	NW_004515658.1	scaffold41	116465	TT	GG	GG	INTERGENIC			
SNP_62719_A_116543	NW_004515658.1	scaffold41	116543	AA	CC	CC	INTERGENIC			
SNP_62720_A_116574	NW_004515658.1	scaffold41	116574	AA	CC	CC	INTERGENIC			
SNP_62721_A_122127	NW_004515658.1	scaffold41	122127	TT	CC	CC	INTERGENIC			
SNP_62722_A_122189	NW_004515658.1	scaffold41	122189	TT	CC	CC	INTERGENIC			
SNP_62723_A_122203	NW_004515658.1	scaffold41	122203	AA	GG	GG	INTERGENIC			
SNP_62724_A_122285	NW_004515658.1	scaffold41	122285	TT	CC	CC	INTERGENIC			
SNP_62725_A_122286	NW_004515658.1	scaffold41	122286	GG	AA	AA	INTERGENIC			
SNP_62726_A_122301	NW_004515658.1	scaffold41	122301	AA	GG	GG	INTERGENIC			
SNP_62727_A_122302	NW_004515658.1	scaffold41	122302	TT	GG	GG	INTERGENIC			
SNP_62730_A_122388	NW_004515658.1	scaffold41	122388	AA	CC	CC	INTERGENIC			
SNP_62731_A_122409	NW_004515658.1	scaffold41	122409	CC	TT	TT	INTERGENIC			
SNP_62732_A_122427	NW_004515658.1	scaffold41	122427	CC	GG	GG	INTERGENIC			
SNP_62734_A_122449	NW_004515658.1	scaffold41	122449	AA	GG	GG	INTERGENIC			
SNP_62735_A_122456	NW_004515658.1	scaffold41	122456	AA	GG	GG	INTERGENIC			
SNP_62736_A_122465	NW_004515658.1	scaffold41	122465	TT	GG	GG	INTERGENIC			
SNP_62737_A_122497	NW_004515658.1	scaffold41	122497	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62738_A_122509	NW_004515658.1	scaffold41	122509	TT	CC	CC	INTERGENIC		
SNP_62739_A_122510	NW_004515658.1	scaffold41	122510	TT	GG	GG	INTERGENIC		
SNP_62740_A_122513	NW_004515658.1	scaffold41	122513	TT	CC	CC	INTERGENIC		
SNP_62741_A_122527	NW_004515658.1	scaffold41	122527	TT	GG	GG	INTERGENIC		
SNP_62742_A_122687	NW_004515658.1	scaffold41	122687	AA	TT	TT	INTERGENIC		
SNP_62743_A_122713	NW_004515658.1	scaffold41	122713	TT	CC	CC	INTERGENIC		
SNP_62744_A_127687	NW_004515658.1	scaffold41	127687	TT	AA	AA	INTERGENIC		
SNP_62745_A_165089	NW_004515658.1	scaffold41	165089	TT	CC	CC	INTERGENIC		
SNP_62746_A_157	NW_004515660.1	scaffold44	157	AA	GG	GG	INTERGENIC		
SNP_62747_A_637	NW_004515660.1	scaffold44	637	TT	GG	GG	INTERGENIC		
SNP_62748_A_106416	NW_004515660.1	scaffold44	106416	GG	TT	TT	INTERGENIC		
SNP_62749_A_127079	NW_004515660.1	scaffold44	127079	TT	GG	GG	INTRON	101488947	probable LRR receptor-like serine/threonine-protein kinase At1g53430
SNP_62750_A_135652	NW_004515660.1	scaffold44	135652	TT	CC	CC	INTRON	101488947	probable LRR receptor-like serine/threonine-protein kinase At1g53430
SNP_62751_A_140947	NW_004515660.1	scaffold44	140947	AA	GG	GG	INTRON	101488947	probable LRR receptor-like serine/threonine-protein kinase At1g53430
SNP_62752_A_142453	NW_004515660.1	scaffold44	142453	GG	AA	AA	URR	101488947	probable LRR receptor-like serine/threonine-protein kinase At1g53430
SNP_62753_A_147137	NW_004515660.1	scaffold44	147137	GG	TT	TT	INTERGENIC		
SNP_62754_A_147195	NW_004515660.1	scaffold44	147195	TT	CC	CC	INTERGENIC		
SNP_62755_A_147199	NW_004515660.1	scaffold44	147199	TT	CC	CC	INTERGENIC		
SNP_62756_A_170352	NW_004515660.1	scaffold44	170352	TT	GG	GG	INTERGENIC		
SNP_62757_A_170703	NW_004515660.1	scaffold44	170703	CC	GG	GG	INTERGENIC		
SNP_62758_A_189154	NW_004515660.1	scaffold44	189154	TT	AA	AA	INTERGENIC		
SNP_62759_A_238345	NW_004515660.1	scaffold44	238345	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62760_A_258380	NW_004515660.1	scaffold44	258380	AA	CC	CC	INTERGENIC			
SNP_62761_A_282200	NW_004515660.1	scaffold44	282200	AA	GG	GG	INTERGENIC			
SNP_62762_A_286598	NW_004515660.1	scaffold44	286598	TT	CC	CC	INTERGENIC			
SNP_62763_A_286628	NW_004515660.1	scaffold44	286628	AA	GG	GG	INTERGENIC			
SNP_62765_A_850	NW_004515661.1	scaffold46	850	GG	AA	AA	INTERGENIC			
SNP_62766_A_900	NW_004515661.1	scaffold46	900	AA	GG	GG	INTERGENIC			
SNP_62767_A_1607	NW_004515661.1	scaffold46	1607	AA	GG	GG	INTERGENIC			
SNP_62768_A_1624	NW_004515661.1	scaffold46	1624	GG	AA	AA	INTERGENIC			
SNP_62769_A_1823	NW_004515661.1	scaffold46	1823	AA	GG	GG	INTERGENIC			
SNP_62770_A_1911	NW_004515661.1	scaffold46	1911	TT	CC	CC	INTERGENIC			
SNP_62771_A_2064	NW_004515661.1	scaffold46	2064	AA	GG	GG	INTERGENIC			
SNP_62772_A_2086	NW_004515661.1	scaffold46	2086	AA	GG	GG	INTERGENIC			
SNP_62773_A_3022	NW_004515661.1	scaffold46	3022	TT	CC	CC	INTERGENIC			
SNP_62774_A_3108	NW_004515661.1	scaffold46	3108	CC	TT	TT	INTERGENIC			
SNP_62775_A_3190	NW_004515661.1	scaffold46	3190	AA	CC	CC	INTERGENIC			
SNP_62776_A_3193	NW_004515661.1	scaffold46	3193	CC	GG	GG	INTERGENIC			
SNP_62777_A_4185	NW_004515661.1	scaffold46	4185	GG	AA	AA	INTERGENIC			
SNP_62778_A_4496	NW_004515661.1	scaffold46	4496	GG	AA	AA	INTERGENIC			
SNP_62779_A_4544	NW_004515661.1	scaffold46	4544	TT	CC	CC	INTERGENIC			
SNP_62780_A_5073	NW_004515661.1	scaffold46	5073	TT	GG	GG	INTERGENIC			
SNP_62781_A_5087	NW_004515661.1	scaffold46	5087	TT	AA	AA	INTERGENIC			
SNP_62782_A_5178	NW_004515661.1	scaffold46	5178	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62783_A_5192	NW_004515661.1	scaffold46	5192	TT	CC	CC	INTERGENIC		
SNP_62784_A_5367	NW_004515661.1	scaffold46	5367	GG	TT	TT	INTERGENIC		
SNP_62785_A_5424	NW_004515661.1	scaffold46	5424	CC	TT	TT	INTERGENIC		
SNP_62786_A_5587	NW_004515661.1	scaffold46	5587	CC	TT	TT	INTERGENIC		
SNP_62787_A_5590	NW_004515661.1	scaffold46	5590	AA	CC	CC	INTERGENIC		
SNP_62788_A_5611	NW_004515661.1	scaffold46	5611	TT	CC	CC	INTERGENIC		
SNP_62789_A_5684	NW_004515661.1	scaffold46	5684	CC	TT	TT	INTERGENIC		
SNP_62790_A_5767	NW_004515661.1	scaffold46	5767	CC	TT	TT	INTERGENIC		
SNP_62791_A_5832	NW_004515661.1	scaffold46	5832	GG	AA	AA	INTERGENIC		
SNP_62792_A_5930	NW_004515661.1	scaffold46	5930	CC	TT	TT	INTERGENIC		
SNP_62794_A_6374	NW_004515661.1	scaffold46	6374	AA	GG	GG	INTERGENIC		
SNP_62795_A_6538	NW_004515661.1	scaffold46	6538	AA	GG	GG	INTERGENIC		
SNP_62796_A_6756	NW_004515661.1	scaffold46	6756	TT	GG	GG	INTERGENIC		
SNP_62797_A_7423	NW_004515661.1	scaffold46	7423	TT	CC	CC	INTERGENIC		
SNP_62798_A_7516	NW_004515661.1	scaffold46	7516	GG	CC	CC	INTERGENIC		
SNP_62799_A_7713	NW_004515661.1	scaffold46	7713	TT	GG	GG	INTERGENIC		
SNP_62800_A_7788	NW_004515661.1	scaffold46	7788	AA	TT	TT	INTERGENIC		
SNP_62801_A_7789	NW_004515661.1	scaffold46	7789	GG	AA	AA	INTERGENIC		
SNP_62802_A_7803	NW_004515661.1	scaffold46	7803	TT	GG	GG	INTERGENIC		
SNP_62803_A_7815	NW_004515661.1	scaffold46	7815	CC	GG	GG	INTERGENIC		
SNP_62804_A_7865	NW_004515661.1	scaffold46	7865	TT	AA	AA	INTERGENIC		
SNP_62805_A_7928	NW_004515661.1	scaffold46	7928	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62806_A_7952	NW_004515661.1	scaffold46	7952	GG	CC	CC	INTERGENIC			
SNP_62807_A_8033	NW_004515661.1	scaffold46	8033	AA	GG	GG	INTERGENIC			
SNP_62808_A_8091	NW_004515661.1	scaffold46	8091	AA	CC	CC	INTERGENIC			
SNP_62809_A_8093	NW_004515661.1	scaffold46	8093	GG	TT	TT	INTERGENIC			
SNP_62810_A_8193	NW_004515661.1	scaffold46	8193	GG	CC	CC	INTERGENIC			
SNP_62811_A_8224	NW_004515661.1	scaffold46	8224	GG	AA	AA	INTERGENIC			
SNP_62812_A_8350	NW_004515661.1	scaffold46	8350	CC	TT	TT	INTERGENIC			
SNP_62813_A_8557	NW_004515661.1	scaffold46	8557	AA	CC	CC	INTERGENIC			
SNP_62814_A_9196	NW_004515661.1	scaffold46	9196	AA	GG	GG	INTERGENIC			
SNP_62815_A_9558	NW_004515661.1	scaffold46	9558	GG	CC	CC	INTERGENIC			
SNP_62816_A_14172	NW_004515661.1	scaffold46	14172	TT	CC	CC	INTERGENIC			
SNP_62817_A_14442	NW_004515661.1	scaffold46	14442	TT	GG	GG	INTERGENIC			
SNP_62818_A_14449	NW_004515661.1	scaffold46	14449	CC	GG	GG	INTERGENIC			
SNP_62819_A_14470	NW_004515661.1	scaffold46	14470	GG	CC	CC	INTERGENIC			
SNP_62820_A_14484	NW_004515661.1	scaffold46	14484	TT	AA	AA	INTERGENIC			
SNP_62821_A_14643	NW_004515661.1	scaffold46	14643	AA	GG	GG	INTERGENIC			
SNP_62822_A_14691	NW_004515661.1	scaffold46	14691	TT	CC	CC	INTERGENIC			
SNP_62823_A_14818	NW_004515661.1	scaffold46	14818	GG	CC	CC	INTERGENIC			
SNP_62824_A_14821	NW_004515661.1	scaffold46	14821	TT	AA	AA	INTERGENIC			
SNP_62825_A_14891	NW_004515661.1	scaffold46	14891	GG	AA	AA	INTERGENIC			
SNP_62826_A_14960	NW_004515661.1	scaffold46	14960	TT	GG	GG	INTERGENIC			
SNP_62827_A_14996	NW_004515661.1	scaffold46	14996	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62828_A_15020	NW_004515661.1	scaffold46	15020	AA	GG	GG	INTERGENIC			
SNP_62829_A_15035	NW_004515661.1	scaffold46	15035	GG	AA	AA	INTERGENIC			
SNP_62830_A_15063	NW_004515661.1	scaffold46	15063	TT	CC	CC	INTERGENIC			
SNP_62831_A_15140	NW_004515661.1	scaffold46	15140	TT	GG	GG	INTERGENIC			
SNP_62832_A_15235	NW_004515661.1	scaffold46	15235	CC	TT	TT	INTERGENIC			
SNP_62833_A_15266	NW_004515661.1	scaffold46	15266	AA	CC	CC	INTERGENIC			
SNP_62834_A_15458	NW_004515661.1	scaffold46	15458	GG	AA	AA	INTERGENIC			
SNP_62835_A_15460	NW_004515661.1	scaffold46	15460	TT	AA	AA	INTERGENIC			
SNP_62836_A_15486	NW_004515661.1	scaffold46	15486	TT	CC	CC	INTERGENIC			
SNP_62837_A_15929	NW_004515661.1	scaffold46	15929	CC	GG	GG	INTERGENIC			
SNP_62838_A_16278	NW_004515661.1	scaffold46	16278	AA	GG	GG	INTERGENIC			
SNP_62839_A_16718	NW_004515661.1	scaffold46	16718	GG	CC	CC	INTERGENIC			
SNP_62840_A_17003	NW_004515661.1	scaffold46	17003	CC	AA	AA	INTERGENIC			
SNP_62841_A_19877	NW_004515661.1	scaffold46	19877	CC	AA	AA	INTERGENIC			
SNP_62842_A_19998	NW_004515661.1	scaffold46	19998	CC	AA	AA	INTERGENIC			
SNP_62843_A_20311	NW_004515661.1	scaffold46	20311	AA	GG	GG	INTERGENIC			
SNP_62844_A_20363	NW_004515661.1	scaffold46	20363	TT	CC	CC	INTERGENIC			
SNP_62845_A_20697	NW_004515661.1	scaffold46	20697	AA	GG	GG	INTERGENIC			
SNP_62846_A_20940	NW_004515661.1	scaffold46	20940	TT	AA	AA	INTERGENIC			
SNP_62847_A_20959	NW_004515661.1	scaffold46	20959	AA	GG	GG	INTERGENIC			
SNP_62848_A_20998	NW_004515661.1	scaffold46	20998	AA	CC	CC	INTERGENIC			
SNP_62849_A_21069	NW_004515661.1	scaffold46	21069	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62850_A_21150	NW_004515661.1	scaffold46	21150	GG	AA	AA	INTERGENIC			
SNP_62851_A_21227	NW_004515661.1	scaffold46	21227	TT	AA	AA	INTERGENIC			
SNP_62852_A_21382	NW_004515661.1	scaffold46	21382	CC	AA	AA	INTERGENIC			
SNP_62853_A_21432	NW_004515661.1	scaffold46	21432	CC	TT	TT	INTERGENIC			
SNP_62854_A_21437	NW_004515661.1	scaffold46	21437	AA	GG	GG	INTERGENIC			
SNP_62855_A_24487	NW_004515661.1	scaffold46	24487	TT	AA	AA	INTERGENIC			
SNP_62856_A_24506	NW_004515661.1	scaffold46	24506	GG	AA	AA	INTERGENIC			
SNP_62857_A_24539	NW_004515661.1	scaffold46	24539	GG	AA	AA	INTERGENIC			
SNP_62858_A_24545	NW_004515661.1	scaffold46	24545	GG	AA	AA	INTERGENIC			
SNP_62859_A_27849	NW_004515661.1	scaffold46	27849	TT	CC	CC	INTERGENIC			
SNP_62860_A_27943	NW_004515661.1	scaffold46	27943	TT	CC	CC	INTERGENIC			
SNP_62861_A_28250	NW_004515661.1	scaffold46	28250	CC	TT	TT	INTERGENIC			
SNP_62862_A_28438	NW_004515661.1	scaffold46	28438	TT	CC	CC	INTERGENIC			
SNP_62863_A_32873	NW_004515661.1	scaffold46	32873	TT	CC	CC	INTERGENIC			
SNP_62865_A_33336	NW_004515661.1	scaffold46	33336	TT	GG	GG	INTERGENIC			
SNP_62866_A_33632	NW_004515661.1	scaffold46	33632	GG	TT	TT	INTERGENIC			
SNP_62867_A_34172	NW_004515661.1	scaffold46	34172	AA	GG	GG	INTERGENIC			
SNP_62868_A_34390	NW_004515661.1	scaffold46	34390	TT	CC	CC	INTERGENIC			
SNP_62869_A_34399	NW_004515661.1	scaffold46	34399	CC	TT	TT	INTERGENIC			
SNP_62870_A_34422	NW_004515661.1	scaffold46	34422	TT	GG	GG	INTERGENIC			
SNP_62871_A_34517	NW_004515661.1	scaffold46	34517	CC	TT	TT	INTERGENIC			
SNP_62872_A_34526	NW_004515661.1	scaffold46	34526	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62873_A_38898	NW_004515661.1	scaffold46	38898	AA	GG	GG	INTERGENIC			
SNP_62874_A_39470	NW_004515661.1	scaffold46	39470	CC	TT	TT	INTERGENIC			
SNP_62875_A_39631	NW_004515661.1	scaffold46	39631	AA	GG	GG	INTERGENIC			
SNP_62876_A_39695	NW_004515661.1	scaffold46	39695	GG	AA	AA	INTERGENIC			
SNP_62877_A_39855	NW_004515661.1	scaffold46	39855	CC	GG	GG	INTERGENIC			
SNP_62878_A_40004	NW_004515661.1	scaffold46	40004	TT	CC	CC	INTERGENIC			
SNP_62879_A_40015	NW_004515661.1	scaffold46	40015	TT	CC	CC	INTERGENIC			
SNP_62880_A_40089	NW_004515661.1	scaffold46	40089	CC	AA	AA	INTERGENIC			
SNP_62881_A_40122	NW_004515661.1	scaffold46	40122	GG	CC	CC	INTERGENIC			
SNP_62882_A_40132	NW_004515661.1	scaffold46	40132	GG	CC	CC	INTERGENIC			
SNP_62883_A_41715	NW_004515661.1	scaffold46	41715	AA	TT	TT	INTERGENIC			
SNP_62884_A_7738	NW_004515662.1	scaffold48	7738	AA	TT	TT	INTERGENIC			
SNP_62885_A_8017	NW_004515662.1	scaffold48	8017	GG	TT	TT	INTERGENIC			
SNP_62886_A_11789	NW_004515662.1	scaffold48	11789	TT	AA	AA	INTERGENIC			
SNP_62888_A_11918	NW_004515662.1	scaffold48	11918	GG	AA	AA	INTERGENIC			
SNP_62890_A_16156	NW_004515662.1	scaffold48	16156	AA	GG	GG	INTERGENIC			
SNP_62891_A_16194	NW_004515662.1	scaffold48	16194	TT	CC	CC	INTERGENIC			
SNP_62892_A_56538	NW_004515662.1	scaffold48	56538	TT	CC	CC	INTERGENIC			
SNP_62893_A_56619	NW_004515662.1	scaffold48	56619	AA	GG	GG	INTERGENIC			
SNP_62894_A_56664	NW_004515662.1	scaffold48	56664	GG	AA	AA	INTERGENIC			
SNP_62895_A_56847	NW_004515662.1	scaffold48	56847	TT	GG	GG	INTERGENIC			
SNP_62897_A_57024	NW_004515662.1	scaffold48	57024	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62898_A_61332	NW_004515662.1	scaffold48	61332	GG	AA	AA	INTERGENIC			
SNP_62899_A_139714	NW_004515662.1	scaffold48	139714	TT	CC	CC	INTERGENIC			
SNP_62901_A_140895	NW_004515662.1	scaffold48	140895	CC	GG	GG	INTERGENIC			
SNP_62902_A_140913	NW_004515662.1	scaffold48	140913	TT	CC	CC	INTERGENIC			
SNP_62903_A_140917	NW_004515662.1	scaffold48	140917	AA	GG	GG	INTERGENIC			
SNP_62904_A_140926	NW_004515662.1	scaffold48	140926	TT	CC	CC	INTERGENIC			
SNP_62905_A_140939	NW_004515662.1	scaffold48	140939	CC	AA	AA	INTERGENIC			
SNP_62906_A_140943	NW_004515662.1	scaffold48	140943	GG	AA	AA	INTERGENIC			
SNP_62907_A_140946	NW_004515662.1	scaffold48	140946	AA	GG	GG	INTERGENIC			
SNP_62908_A_141081	NW_004515662.1	scaffold48	141081	TT	CC	CC	INTERGENIC			
SNP_62909_A_141133	NW_004515662.1	scaffold48	141133	TT	CC	CC	INTERGENIC			
SNP_62910_A_141134	NW_004515662.1	scaffold48	141134	AA	GG	GG	INTERGENIC			
SNP_62911_A_326292	NW_004515662.1	scaffold48	326292	AA	GG	GG	INTERGENIC			
SNP_62912_A_326309	NW_004515662.1	scaffold48	326309	TT	CC	CC	INTERGENIC			
SNP_62913_A_326364	NW_004515662.1	scaffold48	326364	AA	CC	CC	INTERGENIC			
SNP_62914_A_380464	NW_004515662.1	scaffold48	380464	AA	CC	CC	INTERGENIC			
SNP_62915_A_381398	NW_004515662.1	scaffold48	381398	TT	GG	GG	INTERGENIC			
SNP_62916_A_431955	NW_004515662.1	scaffold48	431955	CC	AA	AA	INTERGENIC			
SNP_62917_A_443167	NW_004515662.1	scaffold48	443167	CC	GG	GG	INTERGENIC			
SNP_62918_A_461601	NW_004515662.1	scaffold48	461601	AA	TT	TT	INTERGENIC			
SNP_62919_A_461602	NW_004515662.1	scaffold48	461602	AA	GG	GG	INTERGENIC			
SNP_62920_A_2557	NW_004515664.1	scaffold50	2557	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_62921_A_2559	NW_004515664.1	scaffold50	2559	AA	CC	CC	INTERGENIC			
SNP_62922_A_2584	NW_004515664.1	scaffold50	2584	CC	TT	TT	INTERGENIC			
SNP_62923_A_2644	NW_004515664.1	scaffold50	2644	GG	AA	AA	INTERGENIC			
SNP_62924_A_3463	NW_004515664.1	scaffold50	3463	CC	AA	AA	INTERGENIC			
SNP_62925_A_3464	NW_004515664.1	scaffold50	3464	CC	TT	TT	INTERGENIC			
SNP_62926_A_3533	NW_004515664.1	scaffold50	3533	CC	TT	TT	INTERGENIC			
SNP_62927_A_5734	NW_004515664.1	scaffold50	5734	CC	AA	AA	INTERGENIC			
SNP_62928_A_5827	NW_004515664.1	scaffold50	5827	CC	TT	TT	INTERGENIC			
SNP_62929_A_5916	NW_004515664.1	scaffold50	5916	CC	TT	TT	INTERGENIC			
SNP_62930_A_5980	NW_004515664.1	scaffold50	5980	AA	GG	GG	INTERGENIC			
SNP_62931_A_6106	NW_004515664.1	scaffold50	6106	CC	TT	TT	INTERGENIC			
SNP_62932_A_6282	NW_004515664.1	scaffold50	6282	AA	GG	GG	INTERGENIC			
SNP_62933_A_6395	NW_004515664.1	scaffold50	6395	TT	CC	CC	INTERGENIC			
SNP_62934_A_6406	NW_004515664.1	scaffold50	6406	GG	AA	AA	INTERGENIC			
SNP_62936_A_7021	NW_004515664.1	scaffold50	7021	AA	CC	CC	INTERGENIC			
SNP_62937_A_10770	NW_004515664.1	scaffold50	10770	GG	AA	AA	INTERGENIC			
SNP_62938_A_10776	NW_004515664.1	scaffold50	10776	GG	AA	AA	INTERGENIC			
SNP_62939_A_12096	NW_004515664.1	scaffold50	12096	AA	TT	TT	INTERGENIC			
SNP_62940_A_12168	NW_004515664.1	scaffold50	12168	AA	GG	GG	INTERGENIC			
SNP_62941_A_12222	NW_004515664.1	scaffold50	12222	GG	CC	CC	INTERGENIC			
SNP_62942_A_12288	NW_004515664.1	scaffold50	12288	CC	AA	AA	INTERGENIC			
SNP_62943_A_12298	NW_004515664.1	scaffold50	12298	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62944_A_12319	NW_004515664.1	scaffold50	12319	GG	AA	AA	INTERGENIC		
SNP_62945_A_14322	NW_004515664.1	scaffold50	14322	AA	GG	GG	INTERGENIC		
SNP_62946_A_14540	NW_004515664.1	scaffold50	14540	AA	GG	GG	INTERGENIC		
SNP_62947_A_29631	NW_004515664.1	scaffold50	29631	CC	TT	TT	INTERGENIC		
SNP_62948_A_46536	NW_004515664.1	scaffold50	46536	AA	GG	GG	INTERGENIC		
SNP_62949_A_46562	NW_004515664.1	scaffold50	46562	TT	AA	AA	INTERGENIC		
SNP_62950_A_46860	NW_004515664.1	scaffold50	46860	TT	CC	CC	INTERGENIC		
SNP_62951_A_46875	NW_004515664.1	scaffold50	46875	AA	GG	GG	INTERGENIC		
SNP_62952_A_46885	NW_004515664.1	scaffold50	46885	CC	AA	AA	INTERGENIC		
SNP_62953_A_46901	NW_004515664.1	scaffold50	46901	TT	CC	CC	INTERGENIC		
SNP_62954_A_64878	NW_004515664.1	scaffold50	64878	CC	TT	TT	INTERGENIC		
SNP_62955_A_76564	NW_004515664.1	scaffold50	76564	GG	TT	TT	DRR	101495518	probable serine/threonine-protein kinase At5g41260
SNP_62956_A_84502	NW_004515664.1	scaffold50	84502	TT	CC	CC	URR	101495518	probable serine/threonine-protein kinase At5g41260
SNP_62958_A_99837	NW_004515664.1	scaffold50	99837	AA	GG	GG	URR	101495845	phosphatidylinositol:ceramide inositolphosphotransferase 1-like
SNP_62959_A_100574	NW_004515664.1	scaffold50	100574	AA	GG	GG	INTERGENIC		
SNP_62960_A_106412	NW_004515664.1	scaffold50	106412	CC	TT	TT	INTERGENIC		
SNP_62961_A_106482	NW_004515664.1	scaffold50	106482	CC	AA	AA	INTERGENIC		
SNP_62962_A_134433	NW_004515664.1	scaffold50	134433	AA	GG	GG	INTERGENIC		
SNP_62963_A_135903	NW_004515664.1	scaffold50	135903	TT	GG	GG	INTERGENIC		
SNP_62964_A_135907	NW_004515664.1	scaffold50	135907	TT	GG	GG	INTERGENIC		
SNP_62965_A_139110	NW_004515664.1	scaffold50	139110	TT	CC	CC	INTERGENIC		
SNP_62966_A_191709	NW_004515664.1	scaffold50	191709	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62969_A_193159	NW_004515664.1	scaffold50	193159	GG	AA	AA	DRR	101500078	zinc finger MYM-type protein 1-like
SNP_62970_A_193609	NW_004515664.1	scaffold50	193609	TT	CC	CC	SYNONYMOUS_CODING	101500078	zinc finger MYM-type protein 1-like
SNP_62971_A_196010	NW_004515664.1	scaffold50	196010	CC	AA	AA	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62972_A_196015	NW_004515664.1	scaffold50	196015	CC	AA	AA	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62973_A_196016	NW_004515664.1	scaffold50	196016	CC	TT	TT	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62974_A_196017	NW_004515664.1	scaffold50	196017	CC	GG	GG	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62975_A_196024	NW_004515664.1	scaffold50	196024	TT	CC	CC	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62976_A_196026	NW_004515664.1	scaffold50	196026	TT	AA	AA	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62977_A_196032	NW_004515664.1	scaffold50	196032	TT	AA	AA	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62978_A_196033	NW_004515664.1	scaffold50	196033	TT	AA	AA	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62979_A_196127	NW_004515664.1	scaffold50	196127	GG	TT	TT	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62980_A_196162	NW_004515664.1	scaffold50	196162	AA	GG	GG	URR	101500078	zinc finger MYM-type protein 1-like
SNP_62981_A_201610	NW_004515664.1	scaffold50	201610	AA	CC	CC	INTERGENIC		
SNP_62982_A_201660	NW_004515664.1	scaffold50	201660	AA	CC	CC	INTERGENIC		
SNP_62983_A_201675	NW_004515664.1	scaffold50	201675	AA	GG	GG	INTERGENIC		
SNP_62984_A_201730	NW_004515664.1	scaffold50	201730	AA	GG	GG	INTERGENIC		
SNP_62985_A_201754	NW_004515664.1	scaffold50	201754	AA	GG	GG	INTERGENIC		
SNP_62986_A_202129	NW_004515664.1	scaffold50	202129	CC	GG	GG	INTERGENIC		
SNP_62987_A_202172	NW_004515664.1	scaffold50	202172	TT	CC	CC	INTERGENIC		
SNP_62988_A_202233	NW_004515664.1	scaffold50	202233	GG	CC	CC	INTERGENIC		
SNP_62989_A_202286	NW_004515664.1	scaffold50	202286	AA	GG	GG	INTERGENIC		
SNP_62990_A_242569	NW_004515664.1	scaffold50	242569	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_62991_A_300664	NW_004515664.1	scaffold50	300664	TT	GG	GG	INTERGENIC		
SNP_62992_A_307881	NW_004515664.1	scaffold50	307881	CC	TT	TT	INTERGENIC		
SNP_62993_A_318887	NW_004515664.1	scaffold50	318887	CC	GG	GG	INTERGENIC		
SNP_62994_A_336582	NW_004515664.1	scaffold50	336582	TT	AA	AA	INTERGENIC		
SNP_62995_A_345215	NW_004515664.1	scaffold50	345215	AA	GG	GG	URR	101497924	putative bark agglutinin LECRPA3
SNP_62996_A_376505	NW_004515664.1	scaffold50	376505	CC	TT	TT	INTRON	101498577	Unknown function
SNP_62997_A_401566	NW_004515664.1	scaffold50	401566	AA	GG	GG	INTERGENIC		
SNP_62998_A_414551	NW_004515664.1	scaffold50	414551	TT	CC	CC	INTERGENIC		
SNP_62999_A_414555	NW_004515664.1	scaffold50	414555	GG	AA	AA	INTERGENIC		
SNP_63000_A_423452	NW_004515664.1	scaffold50	423452	CC	TT	TT	INTERGENIC		
SNP_63001_A_423492	NW_004515664.1	scaffold50	423492	AA	GG	GG	INTERGENIC		
SNP_63002_A_423511	NW_004515664.1	scaffold50	423511	AA	GG	GG	INTERGENIC		
SNP_63003_A_436981	NW_004515664.1	scaffold50	436981	GG	AA	AA	INTERGENIC		
SNP_63004_A_437005	NW_004515664.1	scaffold50	437005	AA	TT	GG	INTERGENIC		
SNP_63005_A_437124	NW_004515664.1	scaffold50	437124	TT	CC	CC	INTERGENIC		
SNP_63006_A_437131	NW_004515664.1	scaffold50	437131	AA	GG	GG	INTERGENIC		
SNP_63007_A_437352	NW_004515664.1	scaffold50	437352	TT	CC	CC	INTERGENIC		
SNP_63008_A_437410	NW_004515664.1	scaffold50	437410	CC	TT	TT	INTERGENIC		
SNP_63009_A_437471	NW_004515664.1	scaffold50	437471	CC	TT	TT	INTERGENIC		
SNP_63010_A_452219	NW_004515664.1	scaffold50	452219	TT	AA	AA	URR	101499135	uncharacterized LOC101499135
SNP_63011_A_452231	NW_004515664.1	scaffold50	452231	AA	CC	CC	URR	101499135	uncharacterized LOC101499135
SNP_63012_A_454413	NW_004515664.1	scaffold50	454413	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63013_A_464038	NW_004515664.1	scaffold50	464038	GG	AA	AA	INTERGENIC			
SNP_63014_A_562	NW_004515665.1	scaffold53	562	TT	CC	CC	INTERGENIC			
SNP_63015_A_576	NW_004515665.1	scaffold53	576	TT	CC	CC	INTERGENIC			
SNP_63017_A_2211	NW_004515665.1	scaffold53	2211	TT	AA	AA	INTERGENIC			
SNP_63018_A_2225	NW_004515665.1	scaffold53	2225	TT	CC	CC	INTERGENIC			
SNP_63019_A_2295	NW_004515665.1	scaffold53	2295	TT	CC	CC	INTERGENIC			
SNP_63020_A_27368	NW_004515665.1	scaffold53	27368	TT	AA	AA	INTERGENIC			
SNP_63021_A_104118	NW_004515665.1	scaffold53	104118	CC	AA	AA	INTERGENIC			
SNP_63022_A_124864	NW_004515665.1	scaffold53	124864	TT	AA	AA	INTERGENIC			
SNP_63023_A_124905	NW_004515665.1	scaffold53	124905	CC	AA	AA	INTERGENIC			
SNP_63024_A_125295	NW_004515665.1	scaffold53	125295	AA	GG	GG	INTERGENIC			
SNP_63025_A_126868	NW_004515665.1	scaffold53	126868	GG	AA	AA	INTERGENIC			
SNP_63026_A_126875	NW_004515665.1	scaffold53	126875	AA	TT	TT	INTERGENIC			
SNP_63027_A_126946	NW_004515665.1	scaffold53	126946	AA	GG	GG	INTERGENIC			
SNP_63028_A_127485	NW_004515665.1	scaffold53	127485	CC	TT	TT	INTERGENIC			
SNP_63029_A_132274	NW_004515665.1	scaffold53	132274	CC	AA	AA	INTERGENIC			
SNP_63030_A_132317	NW_004515665.1	scaffold53	132317	AA	GG	GG	INTERGENIC			
SNP_63031_A_132900	NW_004515665.1	scaffold53	132900	TT	CC	CC	INTERGENIC			
SNP_63032_A_134418	NW_004515665.1	scaffold53	134418	CC	TT	TT	INTERGENIC			
SNP_63033_A_135032	NW_004515665.1	scaffold53	135032	AA	GG	GG	INTERGENIC			
SNP_63034_A_135738	NW_004515665.1	scaffold53	135738	AA	TT	TT	INTERGENIC			
SNP_63036_A_137570	NW_004515665.1	scaffold53	137570	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63037_A_140201	NW_004515665.1	scaffold53	140201	CC	GG	GG	INTERGENIC			
SNP_63038_A_140205	NW_004515665.1	scaffold53	140205	AA	CC	CC	INTERGENIC			
SNP_63039_A_1012	NW_004515667.1	scaffold56	1012	TT	GG	GG	INTERGENIC			
SNP_63040_A_2110	NW_004515667.1	scaffold56	2110	CC	TT	TT	INTERGENIC			
SNP_63041_A_2230	NW_004515667.1	scaffold56	2230	TT	AA	AA	INTERGENIC			
SNP_63042_A_2300	NW_004515667.1	scaffold56	2300	CC	TT	TT	INTERGENIC			
SNP_63043_A_2538	NW_004515667.1	scaffold56	2538	AA	GG	GG	INTERGENIC			
SNP_63044_A_2561	NW_004515667.1	scaffold56	2561	TT	CC	CC	INTERGENIC			
SNP_63045_A_3074	NW_004515667.1	scaffold56	3074	AA	TT	TT	INTERGENIC			
SNP_63046_A_3120	NW_004515667.1	scaffold56	3120	GG	CC	CC	INTERGENIC			
SNP_63047_A_3396	NW_004515667.1	scaffold56	3396	TT	GG	GG	INTERGENIC			
SNP_63048_A_3434	NW_004515667.1	scaffold56	3434	GG	AA	AA	INTERGENIC			
SNP_63049_A_17932	NW_004515668.1	scaffold62	17932	TT	GG	GG	INTERGENIC			
SNP_63050_A_18238	NW_004515668.1	scaffold62	18238	GG	TT	TT	INTERGENIC			
SNP_63051_A_18245	NW_004515668.1	scaffold62	18245	GG	AA	AA	INTERGENIC			
SNP_63052_A_18261	NW_004515668.1	scaffold62	18261	TT	GG	GG	INTERGENIC			
SNP_63053_A_20338	NW_004515668.1	scaffold62	20338	TT	AA	AA	INTERGENIC			
SNP_63054_A_20370	NW_004515668.1	scaffold62	20370	AA	CC	CC	INTERGENIC			
SNP_63055_A_20375	NW_004515668.1	scaffold62	20375	AA	CC	CC	INTERGENIC			
SNP_63056_A_20587	NW_004515668.1	scaffold62	20587	CC	TT	TT	INTERGENIC			
SNP_63057_A_20626	NW_004515668.1	scaffold62	20626	TT	GG	GG	INTERGENIC			
SNP_63058_A_20729	NW_004515668.1	scaffold62	20729	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63059_A_20776	NW_004515668.1	scaffold62	20776	AA	GG	GG	INTERGENIC			
SNP_63060_A_20837	NW_004515668.1	scaffold62	20837	CC	AA	AA	INTERGENIC			
SNP_63061_A_45573	NW_004515668.1	scaffold62	45573	CC	TT	TT	INTERGENIC			
SNP_63062_A_45591	NW_004515668.1	scaffold62	45591	AA	GG	GG	INTERGENIC			
SNP_63063_A_45600	NW_004515668.1	scaffold62	45600	GG	TT	TT	INTERGENIC			
SNP_63064_A_45631	NW_004515668.1	scaffold62	45631	CC	TT	TT	INTERGENIC			
SNP_63065_A_45674	NW_004515668.1	scaffold62	45674	CC	TT	TT	INTERGENIC			
SNP_63066_A_54414	NW_004515668.1	scaffold62	54414	GG	AA	AA	INTERGENIC			
SNP_63067_A_54421	NW_004515668.1	scaffold62	54421	GG	CC	CC	INTERGENIC			
SNP_63068_A_54429	NW_004515668.1	scaffold62	54429	CC	GG	GG	INTERGENIC			
SNP_63069_A_75374	NW_004515668.1	scaffold62	75374	TT	CC	CC	INTERGENIC			
SNP_63070_A_81916	NW_004515668.1	scaffold62	81916	AA	GG	GG	INTERGENIC			
SNP_63071_A_81929	NW_004515668.1	scaffold62	81929	TT	AA	AA	INTERGENIC			
SNP_63072_A_81935	NW_004515668.1	scaffold62	81935	AA	CC	CC	INTERGENIC			
SNP_63073_A_95108	NW_004515668.1	scaffold62	95108	TT	GG	GG	INTERGENIC			
SNP_63074_A_101278	NW_004515668.1	scaffold62	101278	TT	CC	CC	INTERGENIC			
SNP_63075_A_114770	NW_004515668.1	scaffold62	114770	TT	CC	CC	INTERGENIC			
SNP_63076_A_114915	NW_004515668.1	scaffold62	114915	GG	AA	AA	INTERGENIC			
SNP_63077_A_116562	NW_004515668.1	scaffold62	116562	GG	AA	AA	INTERGENIC			
SNP_63078_A_122461	NW_004515668.1	scaffold62	122461	TT	AA	AA	INTERGENIC			
SNP_63079_A_122694	NW_004515668.1	scaffold62	122694	GG	AA	AA	INTERGENIC			
SNP_63080_A_132265	NW_004515668.1	scaffold62	132265	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63081_A_140834	NW_004515668.1	scaffold62	140834	TT	GG	GG	INTERGENIC			
SNP_63082_A_141246	NW_004515668.1	scaffold62	141246	AA	GG	GG	INTERGENIC			
SNP_63083_A_141305	NW_004515668.1	scaffold62	141305	AA	GG	GG	INTERGENIC			
SNP_63084_A_148990	NW_004515668.1	scaffold62	148990	TT	CC	CC	INTERGENIC			
SNP_63085_A_149852	NW_004515668.1	scaffold62	149852	AA	GG	GG	INTERGENIC			
SNP_63086_A_150064	NW_004515668.1	scaffold62	150064	CC	TT	TT	INTERGENIC			
SNP_63089_A_150840	NW_004515668.1	scaffold62	150840	AA	GG	GG	INTERGENIC			
SNP_63090_A_150983	NW_004515668.1	scaffold62	150983	AA	TT	TT	INTERGENIC			
SNP_63091_A_150990	NW_004515668.1	scaffold62	150990	AA	GG	GG	INTERGENIC			
SNP_63092_A_152299	NW_004515668.1	scaffold62	152299	CC	TT	TT	INTERGENIC			
SNP_63093_A_154059	NW_004515668.1	scaffold62	154059	GG	TT	TT	INTERGENIC			
SNP_63094_A_154543	NW_004515668.1	scaffold62	154543	TT	CC	CC	INTERGENIC			
SNP_63095_A_161661	NW_004515668.1	scaffold62	161661	AA	CC	CC	INTERGENIC			
SNP_63096_A_161664	NW_004515668.1	scaffold62	161664	GG	CC	CC	INTERGENIC			
SNP_63097_A_161714	NW_004515668.1	scaffold62	161714	AA	GG	GG	INTERGENIC			
SNP_63099_A_162556	NW_004515668.1	scaffold62	162556	AA	GG	GG	INTERGENIC			
SNP_63100_A_175567	NW_004515668.1	scaffold62	175567	GG	AA	AA	INTERGENIC			
SNP_63101_A_176003	NW_004515668.1	scaffold62	176003	AA	GG	GG	INTERGENIC			
SNP_63102_A_176016	NW_004515668.1	scaffold62	176016	GG	AA	AA	INTERGENIC			
SNP_63103_A_176207	NW_004515668.1	scaffold62	176207	AA	GG	GG	INTERGENIC			
SNP_63104_A_186805	NW_004515668.1	scaffold62	186805	CC	TT	TT	INTERGENIC			
SNP_63105_A_205148	NW_004515668.1	scaffold62	205148	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63106_A_205151	NW_004515668.1	scaffold62	205151	TT	CC	CC	INTERGENIC			
SNP_63107_A_205590	NW_004515668.1	scaffold62	205590	TT	CC	CC	INTERGENIC			
SNP_63108_A_207629	NW_004515668.1	scaffold62	207629	TT	CC	CC	INTERGENIC			
SNP_63109_A_208846	NW_004515668.1	scaffold62	208846	AA	GG	GG	INTERGENIC			
SNP_63110_A_208908	NW_004515668.1	scaffold62	208908	TT	CC	CC	INTERGENIC			
SNP_63111_A_209127	NW_004515668.1	scaffold62	209127	AA	CC	CC	INTERGENIC			
SNP_63112_A_209241	NW_004515668.1	scaffold62	209241	TT	AA	AA	INTERGENIC			
SNP_63113_A_209260	NW_004515668.1	scaffold62	209260	TT	AA	AA	INTERGENIC			
SNP_63114_A_209284	NW_004515668.1	scaffold62	209284	TT	GG	GG	INTERGENIC			
SNP_63115_A_212568	NW_004515668.1	scaffold62	212568	AA	TT	TT	INTERGENIC			
SNP_63116_A_212869	NW_004515668.1	scaffold62	212869	GG	AA	AA	INTERGENIC			
SNP_63117_A_228289	NW_004515668.1	scaffold62	228289	TT	CC	CC	INTERGENIC			
SNP_63118_A_228326	NW_004515668.1	scaffold62	228326	AA	GG	GG	INTERGENIC			
SNP_63119_A_228331	NW_004515668.1	scaffold62	228331	CC	TT	TT	INTERGENIC			
SNP_63120_A_228410	NW_004515668.1	scaffold62	228410	AA	GG	GG	INTERGENIC			
SNP_63121_A_228516	NW_004515668.1	scaffold62	228516	GG	TT	TT	INTERGENIC			
SNP_63122_A_228692	NW_004515668.1	scaffold62	228692	CC	TT	TT	INTERGENIC			
SNP_63123_A_228693	NW_004515668.1	scaffold62	228693	AA	GG	GG	INTERGENIC			
SNP_63124_A_229677	NW_004515668.1	scaffold62	229677	CC	TT	TT	INTERGENIC			
SNP_63125_A_229678	NW_004515668.1	scaffold62	229678	CC	GG	GG	INTERGENIC			
SNP_63126_A_230105	NW_004515668.1	scaffold62	230105	GG	AA	AA	INTERGENIC			
SNP_63127_A_230121	NW_004515668.1	scaffold62	230121	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63128_A_230128	NW_004515668.1	scaffold62	230128	TT	CC	CC	INTERGENIC			
SNP_63129_A_230151	NW_004515668.1	scaffold62	230151	AA	GG	GG	INTERGENIC			
SNP_63130_A_230219	NW_004515668.1	scaffold62	230219	AA	GG	GG	INTERGENIC			
SNP_63131_A_230329	NW_004515668.1	scaffold62	230329	GG	CC	CC	INTERGENIC			
SNP_63132_A_230648	NW_004515668.1	scaffold62	230648	CC	GG	GG	INTERGENIC			
SNP_63133_A_240746	NW_004515668.1	scaffold62	240746	AA	CC	CC	INTERGENIC			
SNP_63134_A_240838	NW_004515668.1	scaffold62	240838	GG	AA	AA	INTERGENIC			
SNP_63135_A_241112	NW_004515668.1	scaffold62	241112	AA	GG	GG	INTERGENIC			
SNP_63136_A_241140	NW_004515668.1	scaffold62	241140	CC	AA	AA	INTERGENIC			
SNP_63137_A_241174	NW_004515668.1	scaffold62	241174	CC	TT	TT	INTERGENIC			
SNP_63138_A_241181	NW_004515668.1	scaffold62	241181	TT	GG	GG	INTERGENIC			
SNP_63139_A_242930	NW_004515668.1	scaffold62	242930	AA	GG	GG	INTERGENIC			
SNP_63140_A_248753	NW_004515668.1	scaffold62	248753	AA	CC	CC	INTERGENIC			
SNP_63141_A_248805	NW_004515668.1	scaffold62	248805	TT	GG	GG	INTERGENIC			
SNP_63142_A_248844	NW_004515668.1	scaffold62	248844	TT	AA	AA	INTERGENIC			
SNP_63143_A_248847	NW_004515668.1	scaffold62	248847	TT	AA	AA	INTERGENIC			
SNP_63144_A_248848	NW_004515668.1	scaffold62	248848	GG	CC	CC	INTERGENIC			
SNP_63145_A_248849	NW_004515668.1	scaffold62	248849	TT	AA	AA	INTERGENIC			
SNP_63146_A_249886	NW_004515668.1	scaffold62	249886	CC	GG	GG	INTERGENIC			
SNP_63147_A_249897	NW_004515668.1	scaffold62	249897	TT	AA	AA	INTERGENIC			
SNP_63148_A_249914	NW_004515668.1	scaffold62	249914	TT	CC	CC	INTERGENIC			
SNP_63149_A_250018	NW_004515668.1	scaffold62	250018	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63150_A_250260	NW_004515668.1	scaffold62	250260	AA	TT	TT	INTERGENIC			
SNP_63151_A_260435	NW_004515668.1	scaffold62	260435	AA	TT	TT	INTERGENIC			
SNP_63152_A_260455	NW_004515668.1	scaffold62	260455	CC	AA	AA	INTERGENIC			
SNP_63153_A_260497	NW_004515668.1	scaffold62	260497	CC	TT	TT	INTERGENIC			
SNP_63154_A_260721	NW_004515668.1	scaffold62	260721	CC	TT	TT	INTERGENIC			
SNP_63155_A_260764	NW_004515668.1	scaffold62	260764	AA	GG	GG	INTERGENIC			
SNP_63156_A_260830	NW_004515668.1	scaffold62	260830	TT	AA	AA	INTERGENIC			
SNP_63157_A_261211	NW_004515668.1	scaffold62	261211	GG	AA	AA	INTERGENIC			
SNP_63158_A_264991	NW_004515668.1	scaffold62	264991	TT	AA	AA	INTERGENIC			
SNP_63159_A_265009	NW_004515668.1	scaffold62	265009	TT	GG	GG	INTERGENIC			
SNP_63160_A_273402	NW_004515668.1	scaffold62	273402	TT	CC	CC	INTERGENIC			
SNP_63161_A_273425	NW_004515668.1	scaffold62	273425	CC	AA	AA	INTERGENIC			
SNP_63162_A_273438	NW_004515668.1	scaffold62	273438	AA	GG	GG	INTERGENIC			
SNP_63163_A_273441	NW_004515668.1	scaffold62	273441	TT	CC	CC	INTERGENIC			
SNP_63164_A_279769	NW_004515668.1	scaffold62	279769	CC	TT	TT	INTERGENIC			
SNP_63165_A_280709	NW_004515668.1	scaffold62	280709	GG	AA	AA	INTERGENIC			
SNP_63166_A_283543	NW_004515668.1	scaffold62	283543	TT	AA	AA	INTERGENIC			
SNP_63167_A_283650	NW_004515668.1	scaffold62	283650	AA	TT	TT	INTERGENIC			
SNP_63168_A_283780	NW_004515668.1	scaffold62	283780	CC	TT	TT	INTERGENIC			
SNP_63169_A_283784	NW_004515668.1	scaffold62	283784	TT	AA	AA	INTERGENIC			
SNP_63170_A_283801	NW_004515668.1	scaffold62	283801	AA	GG	GG	INTERGENIC			
SNP_63171_A_283922	NW_004515668.1	scaffold62	283922	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63173_A_284049	NW_004515668.1	scaffold62	284049	CC	TT	TT	INTERGENIC			
SNP_63174_A_284160	NW_004515668.1	scaffold62	284160	GG	AA	AA	INTERGENIC			
SNP_63175_A_323920	NW_004515668.1	scaffold62	323920	AA	CC	CC	INTERGENIC			
SNP_63176_A_324101	NW_004515668.1	scaffold62	324101	AA	GG	GG	INTERGENIC			
SNP_63177_A_324112	NW_004515668.1	scaffold62	324112	CC	AA	AA	INTERGENIC			
SNP_63178_A_324470	NW_004515668.1	scaffold62	324470	AA	TT	TT	INTERGENIC			
SNP_63179_A_325016	NW_004515668.1	scaffold62	325016	AA	GG	GG	INTERGENIC			
SNP_63180_A_325056	NW_004515668.1	scaffold62	325056	GG	AA	AA	INTERGENIC			
SNP_63181_A_325068	NW_004515668.1	scaffold62	325068	AA	TT	TT	INTERGENIC			
SNP_63182_A_327063	NW_004515668.1	scaffold62	327063	AA	CC	CC	INTERGENIC			
SNP_63183_A_327077	NW_004515668.1	scaffold62	327077	CC	TT	TT	INTERGENIC			
SNP_63184_A_338648	NW_004515668.1	scaffold62	338648	AA	TT	TT	INTERGENIC			
SNP_63186_A_344052	NW_004515668.1	scaffold62	344052	TT	AA	AA	INTERGENIC			
SNP_63187_A_5540	NW_004515669.1	scaffold63	5540	TT	AA	AA	INTERGENIC			
SNP_63188_A_5569	NW_004515669.1	scaffold63	5569	GG	AA	AA	INTERGENIC			
SNP_63190_A_6650	NW_004515669.1	scaffold63	6650	CC	TT	TT	INTERGENIC			
SNP_63191_A_6798	NW_004515669.1	scaffold63	6798	CC	GG	GG	INTERGENIC			
SNP_63192_A_6838	NW_004515669.1	scaffold63	6838	TT	CC	CC	INTERGENIC			
SNP_63193_A_6924	NW_004515669.1	scaffold63	6924	TT	GG	GG	INTERGENIC			
SNP_63194_A_6933	NW_004515669.1	scaffold63	6933	GG	TT	TT	INTERGENIC			
SNP_63196_A_20376	NW_004515669.1	scaffold63	20376	AA	CC	CC	DRR	101502832	Unknown function	
SNP_63197_A_20877	NW_004515669.1	scaffold63	20877	TT	GG	GG	NON_SYNONYMOUS_CODING	101502832	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63198_A_20880	NW_004515669.1	scaffold63	20880	TT	AA	AA	NON_SYNONYMOUS_CODING	101502832	Unknown function
SNP_63199_A_20905	NW_004515669.1	scaffold63	20905	GG	CC	CC	NON_SYNONYMOUS_CODING	101502832	Unknown function
SNP_63200_A_21024	NW_004515669.1	scaffold63	21024	AA	GG	GG	NON_SYNONYMOUS_CODING	101502832	Unknown function
SNP_63201_A_21300	NW_004515669.1	scaffold63	21300	TT	GG	GG	NON_SYNONYMOUS_CODING	101502832	Unknown function
SNP_63202_A_21326	NW_004515669.1	scaffold63	21326	AA	GG	GG	SYNONYMOUS_CODING	101502832	Unknown function
SNP_63203_A_21330	NW_004515669.1	scaffold63	21330	AA	GG	GG	NON_SYNONYMOUS_CODING	101502832	Unknown function
SNP_63204_A_21735	NW_004515669.1	scaffold63	21735	AA	GG	GG	INTRON	101502832	Unknown function
SNP_63205_A_23027	NW_004515669.1	scaffold63	23027	AA	GG	GG	INTRON	101502832	Unknown function
SNP_63206_A_23057	NW_004515669.1	scaffold63	23057	AA	GG	GG	URR	101502832	Unknown function
SNP_63207_A_23132	NW_004515669.1	scaffold63	23132	CC	AA	AA	URR	101502832	Unknown function
SNP_63208_A_23211	NW_004515669.1	scaffold63	23211	CC	TT	TT	URR	101502832	Unknown function
SNP_63209_A_23235	NW_004515669.1	scaffold63	23235	GG	AA	AA	URR	101502832	Unknown function
SNP_63210_A_23362	NW_004515669.1	scaffold63	23362	TT	CC	CC	URR	101502832	Unknown function
SNP_63211_A_23365	NW_004515669.1	scaffold63	23365	AA	GG	GG	URR	101502832	Unknown function
SNP_63212_A_31101	NW_004515669.1	scaffold63	31101	CC	TT	TT	INTERGENIC		
SNP_63213_A_36288	NW_004515669.1	scaffold63	36288	TT	AA	AA	INTERGENIC		
SNP_63214_A_50106	NW_004515669.1	scaffold63	50106	AA	GG	GG	INTERGENIC		
SNP_63215_A_54093	NW_004515669.1	scaffold63	54093	AA	GG	GG	INTERGENIC		
SNP_63216_A_55002	NW_004515669.1	scaffold63	55002	TT	GG	GG	INTERGENIC		
SNP_63217_A_57413	NW_004515669.1	scaffold63	57413	TT	CC	CC	INTERGENIC		
SNP_63219_A_59350	NW_004515669.1	scaffold63	59350	AA	TT	TT	INTERGENIC		
SNP_63220_A_59395	NW_004515669.1	scaffold63	59395	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63221_A_59448	NW_004515669.1	scaffold63	59448	AA	TT	TT	INTERGENIC		
SNP_63222_A_59541	NW_004515669.1	scaffold63	59541	AA	CC	CC	INTERGENIC		
SNP_63223_A_59672	NW_004515669.1	scaffold63	59672	TT	CC	CC	INTERGENIC		
SNP_63224_A_64477	NW_004515669.1	scaffold63	64477	AA	TT	TT	INTERGENIC		
SNP_63225_A_64540	NW_004515669.1	scaffold63	64540	TT	CC	CC	INTERGENIC		
SNP_63226_A_68179	NW_004515669.1	scaffold63	68179	AA	GG	GG	INTERGENIC		
SNP_63227_A_12010	NW_004515671.1	scaffold71	12010	CC	TT	TT	INTERGENIC		
SNP_63228_A_21009	NW_004515671.1	scaffold71	21009	TT	CC	CC	URR	101503365	uncharacterized LOC101503365
SNP_63229_A_21012	NW_004515671.1	scaffold71	21012	CC	GG	GG	URR	101503365	uncharacterized LOC101503365
SNP_63230_A_21024	NW_004515671.1	scaffold71	21024	GG	TT	TT	URR	101503365	uncharacterized LOC101503365
SNP_63231_A_21044	NW_004515671.1	scaffold71	21044	CC	GG	GG	URR	101503365	uncharacterized LOC101503365
SNP_63232_A_21270	NW_004515671.1	scaffold71	21270	TT	CC	CC	URR	101503365	uncharacterized LOC101503365
SNP_63234_A_40758	NW_004515671.1	scaffold71	40758	CC	TT	TT	NON_SYNONYMOUS_CODING	id194577	Unknown function
SNP_63235_A_15204	NW_004515672.1	scaffold72	15204	TT	CC	CC	INTERGENIC		
SNP_63236_A_15250	NW_004515672.1	scaffold72	15250	GG	TT	TT	INTERGENIC		
SNP_63237_A_15386	NW_004515672.1	scaffold72	15386	AA	CC	CC	INTERGENIC		
SNP_63239_A_34299	NW_004515674.1	scaffold74	34299	GG	AA	AA	INTERGENIC		
SNP_63240_A_43550	NW_004515674.1	scaffold74	43550	AA	CC	CC	INTERGENIC		
SNP_63241_A_55314	NW_004515674.1	scaffold74	55314	CC	TT	TT	INTERGENIC		
SNP_63242_A_55387	NW_004515674.1	scaffold74	55387	AA	GG	GG	INTERGENIC		
SNP_63243_A_66314	NW_004515674.1	scaffold74	66314	AA	TT	TT	INTERGENIC		
SNP_63244_A_68927	NW_004515674.1	scaffold74	68927	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63245_A_70799	NW_004515674.1	scaffold74	70799	CC	TT	TT	INTERGENIC			
SNP_63246_A_71111	NW_004515674.1	scaffold74	71111	AA	CC	CC	INTERGENIC			
SNP_63247_A_71935	NW_004515674.1	scaffold74	71935	GG	TT	TT	INTERGENIC			
SNP_63248_A_72231	NW_004515674.1	scaffold74	72231	TT	CC	CC	INTERGENIC			
SNP_63249_A_72264	NW_004515674.1	scaffold74	72264	AA	CC	CC	INTERGENIC			
SNP_63250_A_72269	NW_004515674.1	scaffold74	72269	TT	CC	CC	INTERGENIC			
SNP_63251_A_72272	NW_004515674.1	scaffold74	72272	TT	AA	AA	INTERGENIC			
SNP_63252_A_72273	NW_004515674.1	scaffold74	72273	CC	TT	TT	INTERGENIC			
SNP_63253_A_72616	NW_004515674.1	scaffold74	72616	TT	CC	CC	INTERGENIC			
SNP_63254_A_94000	NW_004515674.1	scaffold74	94000	TT	CC	CC	INTERGENIC			
SNP_63255_A_101624	NW_004515674.1	scaffold74	101624	TT	CC	CC	INTERGENIC			
SNP_63256_A_101625	NW_004515674.1	scaffold74	101625	TT	CC	CC	INTERGENIC			
SNP_63257_A_64	NW_004515675.1	scaffold76	64	TT	CC	CC	INTERGENIC			
SNP_63259_A_266	NW_004515675.1	scaffold76	266	CC	TT	TT	INTERGENIC			
SNP_63260_A_380	NW_004515675.1	scaffold76	380	TT	AA	AA	INTERGENIC			
SNP_63261_A_9641	NW_004515676.1	scaffold80	9641	CC	AA	AA	URR	101507571	Unknown function	
SNP_63262_A_9848	NW_004515676.1	scaffold80	9848	AA	GG	GG	URR	101507571	Unknown function	
SNP_63264_A_43437	NW_004515676.1	scaffold80	43437	AA	TT	TT	INTERGENIC			
SNP_63265_A_56184	NW_004515676.1	scaffold80	56184	AA	GG	GG	INTERGENIC			
SNP_63266_A_56668	NW_004515676.1	scaffold80	56668	TT	GG	GG	INTERGENIC			
SNP_63267_A_56708	NW_004515676.1	scaffold80	56708	AA	CC	CC	INTERGENIC			
SNP_63268_A_56758	NW_004515676.1	scaffold80	56758	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63270_A_56850	NW_004515676.1	scaffold80	56850	TT	GG	GG	INTERGENIC			
SNP_63271_A_66011	NW_004515676.1	scaffold80	66011	CC	TT	TT	INTERGENIC			
SNP_63272_A_66429	NW_004515676.1	scaffold80	66429	AA	TT	TT	INTERGENIC			
SNP_63273_A_79057	NW_004515676.1	scaffold80	79057	TT	CC	CC	INTERGENIC			
SNP_63274_A_79446	NW_004515676.1	scaffold80	79446	AA	GG	GG	INTERGENIC			
SNP_63275_A_79463	NW_004515676.1	scaffold80	79463	AA	GG	GG	INTERGENIC			
SNP_63276_A_79464	NW_004515676.1	scaffold80	79464	AA	TT	TT	INTERGENIC			
SNP_63277_A_83889	NW_004515676.1	scaffold80	83889	AA	GG	GG	INTERGENIC			
SNP_63278_A_90178	NW_004515676.1	scaffold80	90178	AA	CC	CC	INTERGENIC			
SNP_63279_A_90207	NW_004515676.1	scaffold80	90207	AA	GG	GG	INTERGENIC			
SNP_63280_A_90234	NW_004515676.1	scaffold80	90234	TT	GG	GG	INTERGENIC			
SNP_63281_A_101664	NW_004515676.1	scaffold80	101664	TT	CC	CC	INTERGENIC			
SNP_63282_A_101818	NW_004515676.1	scaffold80	101818	CC	TT	TT	INTERGENIC			
SNP_63283_A_101827	NW_004515676.1	scaffold80	101827	TT	CC	CC	INTERGENIC			
SNP_63284_A_101828	NW_004515676.1	scaffold80	101828	TT	CC	CC	INTERGENIC			
SNP_63285_A_101869	NW_004515676.1	scaffold80	101869	CC	TT	TT	INTERGENIC			
SNP_63286_A_101895	NW_004515676.1	scaffold80	101895	CC	GG	GG	INTERGENIC			
SNP_63287_A_125465	NW_004515676.1	scaffold80	125465	TT	AA	AA	INTERGENIC			
SNP_63288_A_134445	NW_004515676.1	scaffold80	134445	GG	TT	TT	INTERGENIC			
SNP_63289_A_134458	NW_004515676.1	scaffold80	134458	CC	TT	TT	INTERGENIC			
SNP_63290_A_134476	NW_004515676.1	scaffold80	134476	AA	TT	TT	INTERGENIC			
SNP_63291_A_144171	NW_004515676.1	scaffold80	144171	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63292_A_144466	NW_004515676.1	scaffold80	144466	CC	TT	TT	INTERGENIC			
SNP_63293_A_145915	NW_004515676.1	scaffold80	145915	AA	TT	TT	INTERGENIC			
SNP_63294_A_150705	NW_004515676.1	scaffold80	150705	TT	GG	GG	INTERGENIC			
SNP_63295_A_150774	NW_004515676.1	scaffold80	150774	TT	CC	CC	INTERGENIC			
SNP_63296_A_150908	NW_004515676.1	scaffold80	150908	AA	GG	GG	INTERGENIC			
SNP_63297_A_151382	NW_004515676.1	scaffold80	151382	TT	CC	CC	INTERGENIC			
SNP_63298_A_162684	NW_004515676.1	scaffold80	162684	AA	GG	GG	INTERGENIC			
SNP_63299_A_173329	NW_004515676.1	scaffold80	173329	TT	AA	AA	INTERGENIC			
SNP_63301_A_173443	NW_004515676.1	scaffold80	173443	GG	AA	AA	INTERGENIC			
SNP_63302_A_177137	NW_004515676.1	scaffold80	177137	AA	TT	TT	INTERGENIC			
SNP_63304_A_241696	NW_004515676.1	scaffold80	241696	GG	AA	AA	URR	101505843	DEAD-box ATP-dependent RNA helicase 52C-like	
SNP_63305_A_259839	NW_004515676.1	scaffold80	259839	TT	CC	CC	INTERGENIC			
SNP_63306_A_273140	NW_004515676.1	scaffold80	273140	AA	GG	GG	INTERGENIC			
SNP_63307_A_273519	NW_004515676.1	scaffold80	273519	AA	GG	GG	INTERGENIC			
SNP_63309_A_350680	NW_004515676.1	scaffold80	350680	TT	CC	CC	INTERGENIC			
SNP_63310_A_350712	NW_004515676.1	scaffold80	350712	TT	CC	CC	INTERGENIC			
SNP_63311_A_354107	NW_004515676.1	scaffold80	354107	TT	CC	CC	INTERGENIC			
SNP_63312_A_355728	NW_004515676.1	scaffold80	355728	TT	CC	CC	INTERGENIC			
SNP_63313_A_357546	NW_004515676.1	scaffold80	357546	TT	GG	GG	INTERGENIC			
SNP_63314_A_358593	NW_004515676.1	scaffold80	358593	AA	GG	GG	INTERGENIC			
SNP_63315_A_364567	NW_004515676.1	scaffold80	364567	AA	GG	GG	INTERGENIC			
SNP_63316_A_364583	NW_004515676.1	scaffold80	364583	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63317_A_364594	NW_004515676.1	scaffold80	364594	AA	TT	TT	INTERGENIC		
SNP_63318_A_382495	NW_004515676.1	scaffold80	382495	TT	CC	CC	INTERGENIC		
SNP_63319_A_382498	NW_004515676.1	scaffold80	382498	AA	CC	CC	INTERGENIC		
SNP_63320_A_382518	NW_004515676.1	scaffold80	382518	TT	CC	CC	INTERGENIC		
SNP_63321_A_382521	NW_004515676.1	scaffold80	382521	TT	CC	CC	INTERGENIC		
SNP_63322_A_382543	NW_004515676.1	scaffold80	382543	AA	GG	GG	INTERGENIC		
SNP_63323_A_382570	NW_004515676.1	scaffold80	382570	TT	CC	CC	INTERGENIC		
SNP_63324_A_431561	NW_004515676.1	scaffold80	431561	AA	GG	GG	INTRON	101507045	mediator of RNA polymerase II transcription subunit 25
SNP_63325_A_446722	NW_004515676.1	scaffold80	446722	TT	CC	CC	INTERGENIC		
SNP_63327_A_66914	NW_004515677.1	scaffold81	66914	AA	GG	GG	NON_SYNONYMOUS_CODING	101509156	31 kDa ribonucleoprotein, chloroplastic-like
SNP_63328_A_67799	NW_004515677.1	scaffold81	67799	AA	CC	CC	NON_SYNONYMOUS_CODING	101509156	31 kDa ribonucleoprotein, chloroplastic-like
SNP_63329_A_90420	NW_004515677.1	scaffold81	90420	TT	AA	AA	INTERGENIC		
SNP_63330_A_90451	NW_004515677.1	scaffold81	90451	AA	GG	GG	INTERGENIC		
SNP_63331_A_90456	NW_004515677.1	scaffold81	90456	CC	TT	TT	INTERGENIC		
SNP_63332_A_90513	NW_004515677.1	scaffold81	90513	CC	AA	AA	INTERGENIC		
SNP_63333_A_90691	NW_004515677.1	scaffold81	90691	GG	TT	TT	INTERGENIC		
SNP_63334_A_90700	NW_004515677.1	scaffold81	90700	GG	AA	AA	INTERGENIC		
SNP_63335_A_91219	NW_004515677.1	scaffold81	91219	AA	TT	TT	INTERGENIC		
SNP_63336_A_91280	NW_004515677.1	scaffold81	91280	TT	AA	AA	INTERGENIC		
SNP_63337_A_91326	NW_004515677.1	scaffold81	91326	TT	AA	AA	INTERGENIC		
SNP_63338_A_91331	NW_004515677.1	scaffold81	91331	AA	GG	GG	INTERGENIC		
SNP_63339_A_91356	NW_004515677.1	scaffold81	91356	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63341_A_91424	NW_004515677.1	scaffold81	91424	GG	CC	CC	INTERGENIC			
SNP_63342_A_91446	NW_004515677.1	scaffold81	91446	GG	AA	AA	INTERGENIC			
SNP_63343_A_91448	NW_004515677.1	scaffold81	91448	GG	AA	AA	INTERGENIC			
SNP_63344_A_91469	NW_004515677.1	scaffold81	91469	GG	CC	CC	INTERGENIC			
SNP_63345_A_91499	NW_004515677.1	scaffold81	91499	TT	CC	CC	INTERGENIC			
SNP_63346_A_91502	NW_004515677.1	scaffold81	91502	AA	TT	TT	INTERGENIC			
SNP_63347_A_91513	NW_004515677.1	scaffold81	91513	AA	GG	GG	INTERGENIC			
SNP_63348_A_91524	NW_004515677.1	scaffold81	91524	GG	AA	AA	INTERGENIC			
SNP_63349_A_91561	NW_004515677.1	scaffold81	91561	GG	AA	AA	INTERGENIC			
SNP_63350_A_91602	NW_004515677.1	scaffold81	91602	AA	CC	CC	INTERGENIC			
SNP_63351_A_91603	NW_004515677.1	scaffold81	91603	CC	AA	AA	INTERGENIC			
SNP_63352_A_91643	NW_004515677.1	scaffold81	91643	GG	AA	AA	INTERGENIC			
SNP_63353_A_91665	NW_004515677.1	scaffold81	91665	AA	GG	GG	INTERGENIC			
SNP_63354_A_91773	NW_004515677.1	scaffold81	91773	AA	TT	TT	INTERGENIC			
SNP_63355_A_91778	NW_004515677.1	scaffold81	91778	GG	CC	CC	INTERGENIC			
SNP_63356_A_91866	NW_004515677.1	scaffold81	91866	CC	TT	TT	INTERGENIC			
SNP_63357_A_91928	NW_004515677.1	scaffold81	91928	AA	GG	GG	INTERGENIC			
SNP_63358_A_91931	NW_004515677.1	scaffold81	91931	AA	TT	TT	INTERGENIC			
SNP_63359_A_92003	NW_004515677.1	scaffold81	92003	AA	TT	TT	INTERGENIC			
SNP_63360_A_92010	NW_004515677.1	scaffold81	92010	TT	AA	AA	INTERGENIC			
SNP_63361_A_92017	NW_004515677.1	scaffold81	92017	AA	GG	GG	INTERGENIC			
SNP_63362_A_92033	NW_004515677.1	scaffold81	92033	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63363_A_92054	NW_004515677.1	scaffold81	92054	AA	CC	CC	INTERGENIC			
SNP_63364_A_5972	NW_004515679.1	scaffold83	5972	TT	CC	CC	INTERGENIC			
SNP_63365_A_6039	NW_004515679.1	scaffold83	6039	GG	AA	AA	INTERGENIC			
SNP_63366_A_6063	NW_004515679.1	scaffold83	6063	AA	TT	TT	INTERGENIC			
SNP_63367_A_6067	NW_004515679.1	scaffold83	6067	GG	AA	AA	INTERGENIC			
SNP_63368_A_6079	NW_004515679.1	scaffold83	6079	CC	TT	TT	INTERGENIC			
SNP_63369_A_6080	NW_004515679.1	scaffold83	6080	TT	CC	CC	INTERGENIC			
SNP_63370_A_6199	NW_004515679.1	scaffold83	6199	GG	AA	AA	INTERGENIC			
SNP_63371_A_6441	NW_004515679.1	scaffold83	6441	TT	AA	AA	INTERGENIC			
SNP_63372_A_28651	NW_004515681.1	scaffold86	28651	TT	GG	GG	INTERGENIC			
SNP_63373_A_28901	NW_004515681.1	scaffold86	28901	TT	GG	GG	INTERGENIC			
SNP_63374_A_37272	NW_004515681.1	scaffold86	37272	AA	TT	TT	INTERGENIC			
SNP_63375_A_39618	NW_004515681.1	scaffold86	39618	CC	TT	TT	INTERGENIC			
SNP_63376_A_85708	NW_004515681.1	scaffold86	85708	AA	TT	TT	INTERGENIC			
SNP_63377_A_88269	NW_004515681.1	scaffold86	88269	CC	TT	TT	INTERGENIC			
SNP_63378_A_88275	NW_004515681.1	scaffold86	88275	AA	GG	GG	INTERGENIC			
SNP_63379_A_88577	NW_004515681.1	scaffold86	88577	AA	GG	GG	INTERGENIC			
SNP_63380_A_9071	NW_004515682.1	scaffold87	9071	AA	GG	GG	INTERGENIC			
SNP_63381_A_9424	NW_004515682.1	scaffold87	9424	TT	CC	CC	INTERGENIC			
SNP_63382_A_9456	NW_004515682.1	scaffold87	9456	AA	GG	GG	INTERGENIC			
SNP_63383_A_9717	NW_004515682.1	scaffold87	9717	AA	GG	GG	INTERGENIC			
SNP_63386_A_87145	NW_004515682.1	scaffold87	87145	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63387_A_87311	NW_004515682.1	scaffold87	87311	CC	TT	TT	INTERGENIC			
SNP_63388_A_87801	NW_004515682.1	scaffold87	87801	GG	AA	AA	INTERGENIC			
SNP_63389_A_118021	NW_004515682.1	scaffold87	118021	GG	AA	AA	INTERGENIC			
SNP_63390_A_118022	NW_004515682.1	scaffold87	118022	CC	TT	TT	INTERGENIC			
SNP_63391_A_118025	NW_004515682.1	scaffold87	118025	TT	GG	GG	INTERGENIC			
SNP_63392_A_118030	NW_004515682.1	scaffold87	118030	CC	TT	TT	INTERGENIC			
SNP_63393_A_118039	NW_004515682.1	scaffold87	118039	TT	CC	CC	INTERGENIC			
SNP_63394_A_118123	NW_004515682.1	scaffold87	118123	TT	CC	AA	INTERGENIC			
SNP_63395_A_118265	NW_004515682.1	scaffold87	118265	CC	TT	TT	INTERGENIC			
SNP_63396_A_118577	NW_004515682.1	scaffold87	118577	AA	GG	GG	INTERGENIC			
SNP_63397_A_141923	NW_004515682.1	scaffold87	141923	GG	AA	AA	INTERGENIC			
SNP_63398_A_149115	NW_004515682.1	scaffold87	149115	AA	GG	GG	INTERGENIC			
SNP_63400_A_149408	NW_004515682.1	scaffold87	149408	GG	AA	AA	INTERGENIC			
SNP_63401_A_158697	NW_004515682.1	scaffold87	158697	AA	GG	GG	INTERGENIC			
SNP_63402_A_158889	NW_004515682.1	scaffold87	158889	TT	GG	GG	INTERGENIC			
SNP_63403_A_158934	NW_004515682.1	scaffold87	158934	TT	CC	CC	INTERGENIC			
SNP_63404_A_253583	NW_004515682.1	scaffold87	253583	AA	TT	TT	INTERGENIC			
SNP_63405_A_306562	NW_004515682.1	scaffold87	306562	TT	CC	CC	INTERGENIC			
SNP_63406_A_306863	NW_004515682.1	scaffold87	306863	AA	GG	GG	INTERGENIC			
SNP_63407_A_306899	NW_004515682.1	scaffold87	306899	AA	GG	GG	INTERGENIC			
SNP_63408_A_306982	NW_004515682.1	scaffold87	306982	AA	TT	TT	INTERGENIC			
SNP_63410_A_419910	NW_004515682.1	scaffold87	419910	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63411_A_423971	NW_004515682.1	scaffold87	423971	AA	GG	GG	INTERGENIC		
SNP_63412_A_424661	NW_004515682.1	scaffold87	424661	GG	AA	AA	INTERGENIC		
SNP_63413_A_434715	NW_004515682.1	scaffold87	434715	CC	TT	TT	INTERGENIC		
SNP_63414_A_435106	NW_004515682.1	scaffold87	435106	CC	GG	GG	INTERGENIC		
SNP_63415_A_445393	NW_004515682.1	scaffold87	445393	CC	TT	TT	INTRON	101488264	uncharacterized LOC101488264
SNP_63416_A_462277	NW_004515682.1	scaffold87	462277	CC	GG	GG	INTRON	101488264	uncharacterized LOC101488264
SNP_63417_A_468733	NW_004515682.1	scaffold87	468733	TT	CC	CC	INTRON	101488264	uncharacterized LOC101488264
SNP_63418_A_468790	NW_004515682.1	scaffold87	468790	TT	CC	CC	INTRON	101488264	uncharacterized LOC101488264
SNP_63419_A_468916	NW_004515682.1	scaffold87	468916	CC	TT	TT	INTRON	101488264	uncharacterized LOC101488264
SNP_63422_A_469100	NW_004515682.1	scaffold87	469100	GG	AA	AA	INTRON	101488264	uncharacterized LOC101488264
SNP_63423_A_469134	NW_004515682.1	scaffold87	469134	TT	GG	GG	INTRON	101488264	uncharacterized LOC101488264
SNP_63424_A_469247	NW_004515682.1	scaffold87	469247	TT	CC	CC	INTRON	101488264	uncharacterized LOC101488264
SNP_63425_A_471444	NW_004515682.1	scaffold87	471444	AA	TT	TT	INTRON	101488264	uncharacterized LOC101488264
SNP_63426_A_471501	NW_004515682.1	scaffold87	471501	AA	GG	GG	INTRON	101488264	uncharacterized LOC101488264
SNP_63427_A_471945	NW_004515682.1	scaffold87	471945	GG	AA	AA	INTRON	101488264	uncharacterized LOC101488264
SNP_63428_A_474762	NW_004515682.1	scaffold87	474762	AA	CC	CC	INTRON	101488264	uncharacterized LOC101488264
SNP_63429_A_475554	NW_004515682.1	scaffold87	475554	TT	GG	GG	INTRON	101488264	uncharacterized LOC101488264
SNP_63430_A_475564	NW_004515682.1	scaffold87	475564	AA	TT	TT	INTRON	101488264	uncharacterized LOC101488264
SNP_63431_A_483231	NW_004515682.1	scaffold87	483231	CC	TT	TT	INTRON	101488264	uncharacterized LOC101488264
SNP_63432_A_503752	NW_004515682.1	scaffold87	503752	TT	CC	CC	INTRON	101488264	uncharacterized LOC101488264
SNP_63433_A_538907	NW_004515682.1	scaffold87	538907	CC	AA	AA	INTRON	101488264	uncharacterized LOC101488264
SNP_63434_A_538921	NW_004515682.1	scaffold87	538921	GG	AA	AA	INTRON	101488264	uncharacterized LOC101488264

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63435_A_575954	NW_004515682.1	scaffold87	575954	CC	GG	GG	URR	101488264	uncharacterized LOC101488264
SNP_63437_A_593837	NW_004515682.1	scaffold87	593837	CC	AA	AA	INTERGENIC		
SNP_63438_A_593858	NW_004515682.1	scaffold87	593858	GG	AA	AA	INTERGENIC		
SNP_63439_A_593945	NW_004515682.1	scaffold87	593945	TT	AA	AA	INTERGENIC		
SNP_63440_A_594167	NW_004515682.1	scaffold87	594167	GG	TT	TT	INTERGENIC		
SNP_63442_A_595285	NW_004515682.1	scaffold87	595285	AA	GG	GG	INTERGENIC		
SNP_63443_A_595291	NW_004515682.1	scaffold87	595291	CC	TT	TT	INTERGENIC		
SNP_63444_A_595350	NW_004515682.1	scaffold87	595350	AA	GG	GG	INTERGENIC		
SNP_63445_A_595428	NW_004515682.1	scaffold87	595428	GG	AA	AA	INTERGENIC		
SNP_63446_A_595490	NW_004515682.1	scaffold87	595490	GG	TT	TT	INTERGENIC		
SNP_63447_A_595542	NW_004515682.1	scaffold87	595542	TT	AA	AA	INTERGENIC		
SNP_63448_A_595591	NW_004515682.1	scaffold87	595591	TT	CC	CC	INTERGENIC		
SNP_63449_A_595592	NW_004515682.1	scaffold87	595592	TT	AA	AA	INTERGENIC		
SNP_63450_A_595614	NW_004515682.1	scaffold87	595614	TT	CC	CC	INTERGENIC		
SNP_63451_A_595813	NW_004515682.1	scaffold87	595813	GG	AA	AA	INTERGENIC		
SNP_63452_A_595921	NW_004515682.1	scaffold87	595921	GG	AA	AA	INTERGENIC		
SNP_63453_A_596758	NW_004515682.1	scaffold87	596758	CC	GG	GG	INTERGENIC		
SNP_63454_A_596981	NW_004515682.1	scaffold87	596981	GG	AA	AA	INTERGENIC		
SNP_63456_A_597728	NW_004515682.1	scaffold87	597728	AA	GG	GG	INTERGENIC		
SNP_63457_A_598090	NW_004515682.1	scaffold87	598090	GG	TT	TT	INTERGENIC		
SNP_63458_A_598166	NW_004515682.1	scaffold87	598166	TT	CC	CC	INTERGENIC		
SNP_63459_A_598184	NW_004515682.1	scaffold87	598184	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63460_A_598308	NW_004515682.1	scaffold87	598308	GG	CC	CC	INTERGENIC		
SNP_63461_A_598355	NW_004515682.1	scaffold87	598355	AA	TT	TT	INTERGENIC		
SNP_63462_A_598388	NW_004515682.1	scaffold87	598388	CC	TT	TT	INTERGENIC		
SNP_63463_A_598408	NW_004515682.1	scaffold87	598408	AA	TT	TT	INTERGENIC		
SNP_63464_A_598409	NW_004515682.1	scaffold87	598409	TT	GG	GG	INTERGENIC		
SNP_63465_A_598431	NW_004515682.1	scaffold87	598431	GG	AA	AA	INTERGENIC		
SNP_63466_A_598481	NW_004515682.1	scaffold87	598481	TT	CC	CC	INTERGENIC		
SNP_63467_A_11765	NW_004515683.1	scaffold88	11765	CC	TT	TT	URR	101489047	putative 3,4-dihydroxy-2-butanone kinase
SNP_63470_A_123484	NW_004515683.1	scaffold88	123484	TT	CC	CC	INTERGENIC		
SNP_63471_A_129001	NW_004515683.1	scaffold88	129001	AA	GG	GG	INTERGENIC		
SNP_63472_A_133845	NW_004515683.1	scaffold88	133845	GG	TT	TT	INTERGENIC		
SNP_63473_A_134229	NW_004515683.1	scaffold88	134229	TT	GG	GG	INTERGENIC		
SNP_63474_A_165264	NW_004515683.1	scaffold88	165264	CC	TT	TT	INTERGENIC		
SNP_63475_A_181325	NW_004515683.1	scaffold88	181325	CC	TT	TT	INTERGENIC		
SNP_63476_A_181393	NW_004515683.1	scaffold88	181393	CC	TT	TT	INTERGENIC		
SNP_63477_A_181413	NW_004515683.1	scaffold88	181413	GG	AA	AA	INTERGENIC		
SNP_63478_A_181435	NW_004515683.1	scaffold88	181435	CC	TT	TT	INTERGENIC		
SNP_63479_A_6576	NW_004515684.1	scaffold89	6576	GG	AA	AA	INTRON	101501454	uncharacterized LOC101501454
SNP_63480_A_6586	NW_004515684.1	scaffold89	6586	AA	GG	GG	INTRON	101501454	uncharacterized LOC101501454
SNP_63481_A_13164	NW_004515684.1	scaffold89	13164	CC	TT	TT	INTRON	101501454	uncharacterized LOC101501454
SNP_63482_A_13174	NW_004515684.1	scaffold89	13174	CC	AA	AA	INTRON	101501454	uncharacterized LOC101501454
SNP_63483_A_13220	NW_004515684.1	scaffold89	13220	GG	AA	AA	INTRON	101501454	uncharacterized LOC101501454

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63484_A_13223	NW_004515684.1	scaffold89	13223	AA	TT	TT	INTRON	101501454	uncharacterized LOC101501454
SNP_63485_A_13487	NW_004515684.1	scaffold89	13487	AA	CC	CC	INTRON	101501454	uncharacterized LOC101501454
SNP_63486_A_13505	NW_004515684.1	scaffold89	13505	AA	GG	GG	INTRON	101501454	uncharacterized LOC101501454
SNP_63487_A_13562	NW_004515684.1	scaffold89	13562	TT	CC	CC	NON_SYNONYMOUS_CODING	101501454	uncharacterized LOC101501454
SNP_63488_A_13609	NW_004515684.1	scaffold89	13609	TT	GG	GG	NON_SYNONYMOUS_CODING	101501454	uncharacterized LOC101501454
SNP_63489_A_22908	NW_004515684.1	scaffold89	22908	CC	TT	TT	INTERGENIC		
SNP_63490_A_22948	NW_004515684.1	scaffold89	22948	CC	TT	TT	INTERGENIC		
SNP_63491_A_23117	NW_004515684.1	scaffold89	23117	AA	GG	GG	INTERGENIC		
SNP_63492_A_23562	NW_004515684.1	scaffold89	23562	TT	CC	CC	INTERGENIC		
SNP_63493_A_23850	NW_004515684.1	scaffold89	23850	CC	TT	TT	INTERGENIC		
SNP_63495_A_23943	NW_004515684.1	scaffold89	23943	TT	CC	CC	INTERGENIC		
SNP_63496_A_23957	NW_004515684.1	scaffold89	23957	AA	GG	GG	INTERGENIC		
SNP_63497_A_24052	NW_004515684.1	scaffold89	24052	GG	AA	AA	INTERGENIC		
SNP_63498_A_24247	NW_004515684.1	scaffold89	24247	AA	GG	GG	INTERGENIC		
SNP_63499_A_24271	NW_004515684.1	scaffold89	24271	CC	TT	TT	INTERGENIC		
SNP_63501_A_126125	NW_004515684.1	scaffold89	126125	TT	CC	CC	INTRON	101503366	histone acetyltransferase HAC12-like
SNP_63502_A_140148	NW_004515684.1	scaffold89	140148	TT	CC	CC	INTERGENIC		
SNP_63503_A_142966	NW_004515684.1	scaffold89	142966	TT	AA	AA	INTERGENIC		
SNP_63504_A_147022	NW_004515684.1	scaffold89	147022	TT	AA	AA	INTERGENIC		
SNP_63505_A_169043	NW_004515684.1	scaffold89	169043	AA	GG	GG	INTERGENIC		
SNP_63506_A_196666	NW_004515684.1	scaffold89	196666	CC	TT	TT	INTRON	101501148	uncharacterized LOC101501148
SNP_63507_A_218358	NW_004515684.1	scaffold89	218358	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63508_A_221051	NW_004515684.1	scaffold89	221051	CC	TT	TT	INTERGENIC			
SNP_63509_A_221478	NW_004515684.1	scaffold89	221478	AA	GG	GG	INTERGENIC			
SNP_63510_A_221483	NW_004515684.1	scaffold89	221483	TT	CC	CC	INTERGENIC			
SNP_63511_A_221799	NW_004515684.1	scaffold89	221799	AA	GG	GG	INTERGENIC			
SNP_63512_A_221813	NW_004515684.1	scaffold89	221813	CC	TT	TT	INTERGENIC			
SNP_63513_A_221854	NW_004515684.1	scaffold89	221854	TT	CC	CC	INTERGENIC			
SNP_63514_A_221870	NW_004515684.1	scaffold89	221870	AA	GG	GG	INTERGENIC			
SNP_63515_A_221904	NW_004515684.1	scaffold89	221904	TT	CC	CC	INTERGENIC			
SNP_63516_A_221934	NW_004515684.1	scaffold89	221934	TT	CC	CC	INTERGENIC			
SNP_63517_A_221981	NW_004515684.1	scaffold89	221981	TT	CC	CC	INTERGENIC			
SNP_63518_A_222013	NW_004515684.1	scaffold89	222013	TT	CC	CC	INTERGENIC			
SNP_63519_A_240765	NW_004515684.1	scaffold89	240765	CC	TT	TT	INTERGENIC			
SNP_63520_A_3507	NW_004515685.1	scaffold92	3507	TT	CC	CC	INTERGENIC			
SNP_63521_A_3702	NW_004515685.1	scaffold92	3702	CC	TT	TT	INTERGENIC			
SNP_63522_A_4093	NW_004515685.1	scaffold92	4093	TT	CC	CC	INTERGENIC			
SNP_63523_A_4125	NW_004515685.1	scaffold92	4125	CC	TT	TT	INTERGENIC			
SNP_63524_A_4456	NW_004515685.1	scaffold92	4456	TT	AA	AA	INTERGENIC			
SNP_63525_A_17045	NW_004515685.1	scaffold92	17045	TT	GG	GG	INTERGENIC			
SNP_63526_A_17063	NW_004515685.1	scaffold92	17063	TT	CC	CC	INTERGENIC			
SNP_63527_A_17398	NW_004515685.1	scaffold92	17398	CC	TT	TT	INTERGENIC			
SNP_63528_A_18048	NW_004515685.1	scaffold92	18048	AA	TT	TT	INTERGENIC			
SNP_63529_A_26826	NW_004515685.1	scaffold92	26826	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63530_A_26828	NW_004515685.1	scaffold92	26828	CC	AA	AA	INTERGENIC			
SNP_63531_A_28367	NW_004515685.1	scaffold92	28367	AA	GG	GG	INTERGENIC			
SNP_63532_A_28865	NW_004515685.1	scaffold92	28865	GG	AA	AA	INTERGENIC			
SNP_63533_A_28904	NW_004515685.1	scaffold92	28904	AA	GG	GG	INTERGENIC			
SNP_63534_A_28921	NW_004515685.1	scaffold92	28921	AA	TT	TT	INTERGENIC			
SNP_63535_A_28935	NW_004515685.1	scaffold92	28935	TT	AA	AA	INTERGENIC			
SNP_63536_A_29117	NW_004515685.1	scaffold92	29117	AA	GG	GG	INTERGENIC			
SNP_63537_A_29205	NW_004515685.1	scaffold92	29205	CC	TT	TT	INTERGENIC			
SNP_63538_A_29219	NW_004515685.1	scaffold92	29219	GG	AA	AA	INTERGENIC			
SNP_63539_A_29347	NW_004515685.1	scaffold92	29347	TT	AA	AA	INTERGENIC			
SNP_63540_A_31342	NW_004515685.1	scaffold92	31342	AA	TT	TT	INTERGENIC			
SNP_63541_A_31344	NW_004515685.1	scaffold92	31344	AA	CC	CC	INTERGENIC			
SNP_63542_A_31741	NW_004515685.1	scaffold92	31741	GG	TT	TT	INTERGENIC			
SNP_63543_A_31805	NW_004515685.1	scaffold92	31805	AA	CC	CC	INTERGENIC			
SNP_63544_A_32663	NW_004515685.1	scaffold92	32663	AA	TT	TT	INTERGENIC			
SNP_63545_A_32987	NW_004515685.1	scaffold92	32987	AA	TT	TT	INTERGENIC			
SNP_63546_A_33200	NW_004515685.1	scaffold92	33200	GG	AA	AA	INTERGENIC			
SNP_63547_A_34002	NW_004515685.1	scaffold92	34002	AA	TT	TT	INTERGENIC			
SNP_63548_A_34203	NW_004515685.1	scaffold92	34203	TT	AA	AA	INTERGENIC			
SNP_63549_A_34514	NW_004515685.1	scaffold92	34514	AA	CC	CC	INTERGENIC			
SNP_63550_A_34563	NW_004515685.1	scaffold92	34563	GG	CC	CC	INTERGENIC			
SNP_63551_A_34779	NW_004515685.1	scaffold92	34779	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63552_A_34794	NW_004515685.1	scaffold92	34794	CC	TT	TT	INTERGENIC			
SNP_63553_A_34919	NW_004515685.1	scaffold92	34919	TT	CC	CC	INTERGENIC			
SNP_63554_A_34943	NW_004515685.1	scaffold92	34943	TT	CC	CC	INTERGENIC			
SNP_63555_A_34975	NW_004515685.1	scaffold92	34975	AA	GG	GG	INTERGENIC			
SNP_63556_A_35070	NW_004515685.1	scaffold92	35070	TT	CC	CC	INTERGENIC			
SNP_63557_A_35106	NW_004515685.1	scaffold92	35106	CC	TT	TT	INTERGENIC			
SNP_63558_A_35149	NW_004515685.1	scaffold92	35149	AA	GG	GG	INTERGENIC			
SNP_63559_A_35151	NW_004515685.1	scaffold92	35151	AA	GG	GG	INTERGENIC			
SNP_63560_A_35417	NW_004515685.1	scaffold92	35417	TT	GG	GG	INTERGENIC			
SNP_63561_A_35451	NW_004515685.1	scaffold92	35451	CC	TT	TT	INTERGENIC			
SNP_63562_A_35586	NW_004515685.1	scaffold92	35586	AA	GG	GG	INTERGENIC			
SNP_63563_A_35648	NW_004515685.1	scaffold92	35648	AA	GG	GG	INTERGENIC			
SNP_63564_A_35649	NW_004515685.1	scaffold92	35649	TT	CC	CC	INTERGENIC			
SNP_63565_A_35656	NW_004515685.1	scaffold92	35656	TT	CC	CC	INTERGENIC			
SNP_63566_A_35685	NW_004515685.1	scaffold92	35685	GG	AA	AA	INTERGENIC			
SNP_63567_A_39428	NW_004515685.1	scaffold92	39428	AA	GG	GG	INTERGENIC			
SNP_63568_A_41709	NW_004515685.1	scaffold92	41709	AA	TT	TT	INTERGENIC			
SNP_63569_A_43452	NW_004515685.1	scaffold92	43452	GG	AA	AA	INTERGENIC			
SNP_63570_A_45106	NW_004515685.1	scaffold92	45106	TT	AA	AA	INTERGENIC			
SNP_63572_A_69101	NW_004515685.1	scaffold92	69101	TT	AA	AA	INTERGENIC			
SNP_63573_A_69142	NW_004515685.1	scaffold92	69142	TT	CC	CC	INTERGENIC			
SNP_63574_A_69169	NW_004515685.1	scaffold92	69169	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63575_A_69170	NW_004515685.1	scaffold92	69170	AA	CC	CC	INTERGENIC			
SNP_63576_A_69174	NW_004515685.1	scaffold92	69174	CC	GG	GG	INTERGENIC			
SNP_63577_A_69179	NW_004515685.1	scaffold92	69179	CC	TT	TT	INTERGENIC			
SNP_63578_A_69613	NW_004515685.1	scaffold92	69613	AA	GG	GG	INTERGENIC			
SNP_63579_A_77648	NW_004515685.1	scaffold92	77648	CC	TT	TT	INTERGENIC			
SNP_63580_A_85740	NW_004515685.1	scaffold92	85740	AA	GG	GG	INTERGENIC			
SNP_63581_A_89077	NW_004515685.1	scaffold92	89077	GG	TT	TT	INTERGENIC			
SNP_63582_A_92416	NW_004515685.1	scaffold92	92416	AA	CC	CC	INTERGENIC			
SNP_63583_A_92471	NW_004515685.1	scaffold92	92471	TT	GG	GG	INTERGENIC			
SNP_63584_A_109139	NW_004515685.1	scaffold92	109139	AA	GG	GG	INTERGENIC			
SNP_63585_A_109150	NW_004515685.1	scaffold92	109150	CC	AA	AA	INTERGENIC			
SNP_63586_A_109255	NW_004515685.1	scaffold92	109255	CC	TT	TT	INTERGENIC			
SNP_63587_A_109482	NW_004515685.1	scaffold92	109482	TT	CC	CC	INTERGENIC			
SNP_63588_A_109841	NW_004515685.1	scaffold92	109841	GG	CC	CC	INTERGENIC			
SNP_63589_A_110101	NW_004515685.1	scaffold92	110101	CC	TT	TT	INTERGENIC			
SNP_63590_A_114060	NW_004515685.1	scaffold92	114060	AA	GG	GG	INTERGENIC			
SNP_63591_A_114380	NW_004515685.1	scaffold92	114380	AA	GG	GG	INTERGENIC			
SNP_63592_A_5563	NW_004515686.1	scaffold93	5563	CC	GG	GG	INTERGENIC			
SNP_63594_A_7687	NW_004515686.1	scaffold93	7687	GG	TT	TT	INTERGENIC			
SNP_63595_A_7721	NW_004515686.1	scaffold93	7721	GG	AA	AA	INTERGENIC			
SNP_63596_A_8468	NW_004515686.1	scaffold93	8468	CC	GG	GG	INTERGENIC			
SNP_63597_A_8542	NW_004515686.1	scaffold93	8542	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63598_A_8732	NW_004515686.1	scaffold93	8732	TT	CC	CC	INTERGENIC			
SNP_63599_A_8769	NW_004515686.1	scaffold93	8769	TT	CC	CC	INTERGENIC			
SNP_63600_A_9382	NW_004515686.1	scaffold93	9382	TT	GG	GG	INTERGENIC			
SNP_63601_A_9457	NW_004515686.1	scaffold93	9457	AA	GG	GG	INTERGENIC			
SNP_63602_A_27758	NW_004515686.1	scaffold93	27758	TT	CC	CC	INTERGENIC			
SNP_63603_A_28412	NW_004515686.1	scaffold93	28412	TT	AA	AA	INTERGENIC			
SNP_63604_A_28420	NW_004515686.1	scaffold93	28420	CC	TT	TT	INTERGENIC			
SNP_63605_A_28423	NW_004515686.1	scaffold93	28423	TT	CC	CC	INTERGENIC			
SNP_63606_A_28682	NW_004515686.1	scaffold93	28682	CC	TT	TT	INTERGENIC			
SNP_63607_A_28715	NW_004515686.1	scaffold93	28715	CC	AA	AA	INTERGENIC			
SNP_63608_A_38601	NW_004515686.1	scaffold93	38601	GG	AA	AA	INTERGENIC			
SNP_63609_A_38629	NW_004515686.1	scaffold93	38629	CC	AA	AA	INTERGENIC			
SNP_63610_A_46796	NW_004515686.1	scaffold93	46796	AA	GG	GG	INTERGENIC			
SNP_63611_A_46867	NW_004515686.1	scaffold93	46867	TT	CC	CC	INTERGENIC			
SNP_63612_A_46884	NW_004515686.1	scaffold93	46884	AA	GG	GG	INTERGENIC			
SNP_63613_A_46895	NW_004515686.1	scaffold93	46895	TT	AA	AA	INTERGENIC			
SNP_63614_A_46902	NW_004515686.1	scaffold93	46902	TT	CC	CC	INTERGENIC			
SNP_63615_A_46930	NW_004515686.1	scaffold93	46930	AA	CC	CC	INTERGENIC			
SNP_63616_A_46946	NW_004515686.1	scaffold93	46946	CC	TT	TT	INTERGENIC			
SNP_63617_A_47465	NW_004515686.1	scaffold93	47465	TT	CC	CC	INTERGENIC			
SNP_63618_A_94557	NW_004515686.1	scaffold93	94557	TT	AA	AA	INTERGENIC			
SNP_63619_A_97175	NW_004515686.1	scaffold93	97175	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63621_A_132654	NW_004515686.1	scaffold93	132654	CC	TT	TT	INTERGENIC			
SNP_63622_A_132658	NW_004515686.1	scaffold93	132658	GG	CC	CC	INTERGENIC			
SNP_63623_A_132665	NW_004515686.1	scaffold93	132665	AA	CC	CC	INTERGENIC			
SNP_63624_A_132680	NW_004515686.1	scaffold93	132680	AA	TT	TT	INTERGENIC			
SNP_63625_A_140813	NW_004515686.1	scaffold93	140813	TT	CC	CC	INTERGENIC			
SNP_63626_A_140886	NW_004515686.1	scaffold93	140886	AA	GG	GG	INTERGENIC			
SNP_63627_A_141088	NW_004515686.1	scaffold93	141088	TT	CC	CC	INTERGENIC			
SNP_63629_A_141174	NW_004515686.1	scaffold93	141174	CC	TT	TT	INTERGENIC			
SNP_63630_A_141258	NW_004515686.1	scaffold93	141258	AA	GG	GG	INTERGENIC			
SNP_63631_A_149053	NW_004515686.1	scaffold93	149053	AA	GG	GG	INTERGENIC			
SNP_63632_A_149120	NW_004515686.1	scaffold93	149120	CC	TT	TT	INTERGENIC			
SNP_63633_A_153621	NW_004515686.1	scaffold93	153621	TT	CC	CC	INTERGENIC			
SNP_63634_A_153897	NW_004515686.1	scaffold93	153897	TT	CC	CC	INTERGENIC			
SNP_63635_A_180662	NW_004515686.1	scaffold93	180662	AA	CC	CC	INTERGENIC			
SNP_63636_A_180685	NW_004515686.1	scaffold93	180685	TT	CC	CC	INTERGENIC			
SNP_63637_A_210398	NW_004515686.1	scaffold93	210398	TT	AA	AA	INTERGENIC			
SNP_63638_A_210403	NW_004515686.1	scaffold93	210403	GG	AA	AA	INTERGENIC			
SNP_63639_A_221813	NW_004515686.1	scaffold93	221813	CC	GG	GG	INTERGENIC			
SNP_63640_A_264114	NW_004515686.1	scaffold93	264114	TT	CC	CC	INTERGENIC			
SNP_63641_A_270265	NW_004515686.1	scaffold93	270265	GG	AA	AA	INTERGENIC			
SNP_63642_A_296240	NW_004515686.1	scaffold93	296240	GG	AA	AA	INTERGENIC			
SNP_63643_A_296248	NW_004515686.1	scaffold93	296248	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63645_A_296561	NW_004515686.1	scaffold93	296561	CC	TT	TT	INTERGENIC		
SNP_63646_A_296565	NW_004515686.1	scaffold93	296565	CC	TT	TT	INTERGENIC		
SNP_63647_A_296596	NW_004515686.1	scaffold93	296596	TT	GG	GG	INTERGENIC		
SNP_63648_A_296628	NW_004515686.1	scaffold93	296628	AA	CC	CC	INTERGENIC		
SNP_63649_A_296671	NW_004515686.1	scaffold93	296671	TT	CC	CC	INTERGENIC		
SNP_63650_A_296679	NW_004515686.1	scaffold93	296679	GG	AA	AA	INTERGENIC		
SNP_63651_A_296720	NW_004515686.1	scaffold93	296720	TT	GG	GG	INTERGENIC		
SNP_63652_A_337779	NW_004515686.1	scaffold93	337779	GG	AA	AA	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63653_A_337851	NW_004515686.1	scaffold93	337851	TT	CC	CC	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63654_A_337889	NW_004515686.1	scaffold93	337889	TT	CC	CC	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63655_A_337925	NW_004515686.1	scaffold93	337925	TT	CC	CC	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63657_A_338043	NW_004515686.1	scaffold93	338043	AA	CC	CC	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63658_A_338084	NW_004515686.1	scaffold93	338084	CC	TT	TT	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63659_A_338114	NW_004515686.1	scaffold93	338114	TT	GG	GG	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63660_A_338135	NW_004515686.1	scaffold93	338135	GG	TT	TT	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63661_A_338224	NW_004515686.1	scaffold93	338224	AA	GG	GG	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63662_A_338408	NW_004515686.1	scaffold93	338408	GG	AA	AA	INTRON	101505642	crossover junction endonuclease MUS81
SNP_63663_A_355496	NW_004515686.1	scaffold93	355496	CC	TT	TT	INTERGENIC		
SNP_63664_A_356048	NW_004515686.1	scaffold93	356048	CC	GG	GG	INTERGENIC		
SNP_63665_A_387568	NW_004515686.1	scaffold93	387568	GG	AA	AA	INTERGENIC		
SNP_63666_A_390751	NW_004515686.1	scaffold93	390751	TT	CC	CC	INTERGENIC		
SNP_63667_A_469724	NW_004515686.1	scaffold93	469724	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63668_A_483517	NW_004515686.1	scaffold93	483517	AA	GG	GG	INTERGENIC		
SNP_63669_A_483613	NW_004515686.1	scaffold93	483613	GG	AA	AA	INTERGENIC		
SNP_63670_A_499606	NW_004515686.1	scaffold93	499606	TT	CC	CC	INTERGENIC		
SNP_63671_A_499998	NW_004515686.1	scaffold93	499998	AA	GG	GG	INTERGENIC		
SNP_63672_A_499999	NW_004515686.1	scaffold93	499999	GG	AA	AA	INTERGENIC		
SNP_63673_A_503477	NW_004515686.1	scaffold93	503477	GG	AA	AA	INTERGENIC		
SNP_63674_A_503489	NW_004515686.1	scaffold93	503489	TT	GG	GG	INTERGENIC		
SNP_63675_A_503529	NW_004515686.1	scaffold93	503529	AA	GG	GG	INTERGENIC		
SNP_63676_A_503537	NW_004515686.1	scaffold93	503537	TT	CC	CC	INTERGENIC		
SNP_63677_A_503540	NW_004515686.1	scaffold93	503540	AA	CC	CC	INTERGENIC		
SNP_63678_A_503547	NW_004515686.1	scaffold93	503547	AA	GG	GG	INTERGENIC		
SNP_63679_A_503550	NW_004515686.1	scaffold93	503550	GG	CC	CC	INTERGENIC		
SNP_63680_A_503556	NW_004515686.1	scaffold93	503556	GG	TT	TT	INTERGENIC		
SNP_63681_A_503562	NW_004515686.1	scaffold93	503562	AA	TT	TT	INTERGENIC		
SNP_63682_A_529696	NW_004515686.1	scaffold93	529696	CC	TT	TT	INTERGENIC		
SNP_63683_A_538998	NW_004515686.1	scaffold93	538998	AA	GG	GG	INTERGENIC		
SNP_63684_A_538999	NW_004515686.1	scaffold93	538999	GG	AA	AA	INTERGENIC		
SNP_63685_A_572803	NW_004515686.1	scaffold93	572803	CC	AA	AA	URR	101508738	uncharacterized LOC101508738
SNP_63686_A_572872	NW_004515686.1	scaffold93	572872	AA	TT	TT	URR	101508738	uncharacterized LOC101508738
SNP_63687_A_572953	NW_004515686.1	scaffold93	572953	TT	AA	AA	URR	101508738	uncharacterized LOC101508738
SNP_63688_A_573019	NW_004515686.1	scaffold93	573019	GG	CC	CC	URR	101508738	uncharacterized LOC101508738
SNP_63689_A_573062	NW_004515686.1	scaffold93	573062	TT	CC	CC	URR	101508738	uncharacterized LOC101508738

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63690_A_573063	NW_004515686.1	scaffold93	573063	GG	AA	AA	URR	101508738	uncharacterized LOC101508738
SNP_63691_A_573273	NW_004515686.1	scaffold93	573273	CC	TT	TT	URR	101508738	uncharacterized LOC101508738
SNP_63692_A_573301	NW_004515686.1	scaffold93	573301	CC	AA	AA	URR	101508738	uncharacterized LOC101508738
SNP_63693_A_573472	NW_004515686.1	scaffold93	573472	GG	CC	CC	URR	101508738	uncharacterized LOC101508738
SNP_63694_A_573703	NW_004515686.1	scaffold93	573703	TT	GG	GG	URR	101508738	uncharacterized LOC101508738
SNP_63695_A_574270	NW_004515686.1	scaffold93	574270	CC	TT	TT	DRR	101514653	uncharacterized LOC101514653
SNP_63696_A_574346	NW_004515686.1	scaffold93	574346	CC	AA	AA	DRR	101514653	uncharacterized LOC101514653
SNP_63697_A_624417	NW_004515686.1	scaffold93	624417	CC	TT	TT	INTERGENIC		
SNP_63698_A_624509	NW_004515686.1	scaffold93	624509	CC	TT	TT	INTERGENIC		
SNP_63699_A_624903	NW_004515686.1	scaffold93	624903	TT	CC	CC	INTERGENIC		
SNP_63700_A_632355	NW_004515686.1	scaffold93	632355	AA	GG	GG	INTERGENIC		
SNP_63701_A_632358	NW_004515686.1	scaffold93	632358	AA	TT	TT	INTERGENIC		
SNP_63702_A_632392	NW_004515686.1	scaffold93	632392	GG	AA	AA	INTERGENIC		
SNP_63703_A_651794	NW_004515686.1	scaffold93	651794	CC	TT	TT	INTERGENIC		
SNP_63704_A_663130	NW_004515686.1	scaffold93	663130	TT	CC	CC	URR	101514981	uncharacterized LOC101514981
SNP_63705_A_2160	NW_004515687.1	scaffold96	2160	AA	CC	CC	INTERGENIC		
SNP_63706_A_2334	NW_004515687.1	scaffold96	2334	TT	CC	CC	INTERGENIC		
SNP_63707_A_2541	NW_004515687.1	scaffold96	2541	AA	GG	GG	INTERGENIC		
SNP_63708_A_108707	NW_004515687.1	scaffold96	108707	CC	GG	GG	INTRON	101490890	uncharacterized LOC101490890
SNP_63709_A_110279	NW_004515687.1	scaffold96	110279	CC	TT	TT	INTRON	101490890	uncharacterized LOC101490890
SNP_63710_A_118468	NW_004515687.1	scaffold96	118468	AA	TT	TT	INTRON	101490890	uncharacterized LOC101490890
SNP_63711_A_127902	NW_004515687.1	scaffold96	127902	GG	AA	AA	INTRON	101490890	uncharacterized LOC101490890

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63712_A_153234	NW_004515687.1	scaffold96	153234	AA	GG	GG	URR	101490890	uncharacterized LOC101490890
SNP_63713_A_159863	NW_004515687.1	scaffold96	159863	GG	AA	AA	INTERGENIC		
SNP_63714_A_159889	NW_004515687.1	scaffold96	159889	GG	TT	TT	INTERGENIC		
SNP_63715_A_159950	NW_004515687.1	scaffold96	159950	GG	AA	AA	INTERGENIC		
SNP_63716_A_160024	NW_004515687.1	scaffold96	160024	TT	CC	CC	INTERGENIC		
SNP_63717_A_160043	NW_004515687.1	scaffold96	160043	TT	GG	GG	INTERGENIC		
SNP_63718_A_160069	NW_004515687.1	scaffold96	160069	TT	GG	GG	INTERGENIC		
SNP_63719_A_160091	NW_004515687.1	scaffold96	160091	TT	CC	CC	INTERGENIC		
SNP_63720_A_180943	NW_004515687.1	scaffold96	180943	GG	AA	AA	INTERGENIC		
SNP_63721_A_180952	NW_004515687.1	scaffold96	180952	TT	AA	AA	INTERGENIC		
SNP_63722_A_180961	NW_004515687.1	scaffold96	180961	AA	CC	CC	INTERGENIC		
SNP_63723_A_188039	NW_004515687.1	scaffold96	188039	TT	CC	CC	INTERGENIC		
SNP_63725_A_197941	NW_004515687.1	scaffold96	197941	CC	TT	TT	INTERGENIC		
SNP_63726_A_199451	NW_004515687.1	scaffold96	199451	AA	TT	TT	INTERGENIC		
SNP_63727_A_316485	NW_004515687.1	scaffold96	316485	AA	TT	TT	INTRON	101493166	uncharacterized LOC101493166
SNP_63728_A_316498	NW_004515687.1	scaffold96	316498	TT	CC	CC	INTRON	101493166	uncharacterized LOC101493166
SNP_63729_A_316524	NW_004515687.1	scaffold96	316524	CC	TT	TT	INTRON	101493166	uncharacterized LOC101493166
SNP_63730_A_316562	NW_004515687.1	scaffold96	316562	CC	TT	TT	INTRON	101493166	uncharacterized LOC101493166
SNP_63731_A_316637	NW_004515687.1	scaffold96	316637	CC	TT	TT	INTRON	101493166	uncharacterized LOC101493166
SNP_63732_A_324012	NW_004515687.1	scaffold96	324012	AA	GG	GG	INTERGENIC		
SNP_63733_A_335348	NW_004515687.1	scaffold96	335348	AA	CC	CC	INTERGENIC		
SNP_63734_A_13937	NW_004515688.1	scaffold98	13937	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63735_A_13943	NW_004515688.1	scaffold98	13943	GG	AA	AA	INTERGENIC			
SNP_63736_A_13944	NW_004515688.1	scaffold98	13944	GG	AA	AA	INTERGENIC			
SNP_63737_A_63963	NW_004515688.1	scaffold98	63963	GG	TT	TT	INTERGENIC			
SNP_63738_A_63978	NW_004515688.1	scaffold98	63978	AA	GG	GG	INTERGENIC			
SNP_63739_A_63979	NW_004515688.1	scaffold98	63979	AA	GG	GG	INTERGENIC			
SNP_63740_A_89110	NW_004515688.1	scaffold98	89110	AA	GG	GG	INTERGENIC			
SNP_63741_A_89115	NW_004515688.1	scaffold98	89115	AA	TT	TT	INTERGENIC			
SNP_63742_A_89134	NW_004515688.1	scaffold98	89134	TT	CC	CC	INTERGENIC			
SNP_63743_A_101998	NW_004515688.1	scaffold98	101998	TT	CC	CC	INTERGENIC			
SNP_63744_A_108017	NW_004515688.1	scaffold98	108017	GG	TT	TT	INTERGENIC			
SNP_63745_A_108987	NW_004515688.1	scaffold98	108987	TT	AA	AA	INTERGENIC			
SNP_63746_A_162958	NW_004515688.1	scaffold98	162958	CC	TT	TT	INTERGENIC			
SNP_63747_A_163858	NW_004515688.1	scaffold98	163858	GG	AA	AA	INTERGENIC			
SNP_63750_A_255782	NW_004515688.1	scaffold98	255782	GG	AA	AA	INTERGENIC			
SNP_63751_A_256072	NW_004515688.1	scaffold98	256072	CC	AA	AA	INTERGENIC			
SNP_63752_A_256130	NW_004515688.1	scaffold98	256130	GG	TT	TT	INTERGENIC			
SNP_63753_A_257095	NW_004515688.1	scaffold98	257095	GG	AA	AA	INTERGENIC			
SNP_63754_A_271153	NW_004515688.1	scaffold98	271153	TT	CC	CC	INTERGENIC			
SNP_63755_A_277296	NW_004515688.1	scaffold98	277296	GG	AA	AA	INTERGENIC			
SNP_63756_A_277329	NW_004515688.1	scaffold98	277329	TT	CC	CC	INTERGENIC			
SNP_63757_A_286078	NW_004515688.1	scaffold98	286078	CC	GG	GG	INTERGENIC			
SNP_63758_A_312466	NW_004515688.1	scaffold98	312466	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63759_A_334630	NW_004515688.1	scaffold98	334630	AA	GG	GG	INTERGENIC		
SNP_63760_A_335065	NW_004515688.1	scaffold98	335065	GG	AA	AA	INTERGENIC		
SNP_63761_A_335892	NW_004515688.1	scaffold98	335892	CC	AA	AA	INTERGENIC		
SNP_63762_A_376845	NW_004515688.1	scaffold98	376845	CC	TT	TT	DRR	101499853	uncharacterized LOC101499853
SNP_63764_A_417298	NW_004515688.1	scaffold98	417298	CC	AA	AA	INTERGENIC		
SNP_63765_A_443324	NW_004515688.1	scaffold98	443324	AA	CC	CC	URR	101410591	transfer RNA glutamic acid (anticodon UUC)
SNP_63766_A_446684	NW_004515688.1	scaffold98	446684	GG	AA	AA	DRR	101495631	probable pectinesterase/pectinesterase inhibitor 41
SNP_63767_A_474668	NW_004515688.1	scaffold98	474668	TT	CC	CC	INTERGENIC		
SNP_63769_A_475072	NW_004515688.1	scaffold98	475072	AA	GG	GG	INTERGENIC		
SNP_63770_A_475086	NW_004515688.1	scaffold98	475086	CC	AA	AA	INTERGENIC		
SNP_63771_A_475115	NW_004515688.1	scaffold98	475115	GG	AA	AA	INTERGENIC		
SNP_63773_A_524460	NW_004515688.1	scaffold98	524460	AA	GG	GG	DRR	101501456	uncharacterized LOC101501456
SNP_63774_A_524662	NW_004515688.1	scaffold98	524662	AA	CC	CC	URR	101501149	serine/threonine-protein phosphatase 7 long form homolog
SNP_63775_A_566112	NW_004515688.1	scaffold98	566112	CC	TT	TT	INTRON	101496615	uncharacterized LOC101496615
SNP_63776_A_587049	NW_004515688.1	scaffold98	587049	TT	GG	GG	INTERGENIC		
SNP_63777_A_602822	NW_004515688.1	scaffold98	602822	AA	TT	TT	INTERGENIC		
SNP_63778_A_641882	NW_004515688.1	scaffold98	641882	AA	CC	CC	INTERGENIC		
SNP_63779_A_660189	NW_004515688.1	scaffold98	660189	GG	AA	AA	URR	101410573	transfer RNA threonine (anticodon UGU)
SNP_63780_A_668635	NW_004515688.1	scaffold98	668635	AA	GG	GG	URR	101497264	uncharacterized LOC101497264
SNP_63781_A_892	NW_004515689.1	scaffold99	892	CC	TT	TT	INTERGENIC		
SNP_63782_A_5701	NW_004515689.1	scaffold99	5701	AA	CC	CC	INTERGENIC		
SNP_63783_A_5725	NW_004515689.1	scaffold99	5725	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63784_A_5782	NW_004515689.1	scaffold99	5782	CC	AA	AA	INTERGENIC		
SNP_63785_A_11556	NW_004515689.1	scaffold99	11556	CC	GG	GG	INTERGENIC		
SNP_63786_A_11801	NW_004515689.1	scaffold99	11801	GG	TT	TT	INTERGENIC		
SNP_63787_A_29038	NW_004515689.1	scaffold99	29038	AA	GG	GG	URR	101502834	uncharacterized LOC101502834
SNP_63788_A_44461	NW_004515689.1	scaffold99	44461	CC	TT	TT	INTERGENIC		
SNP_63789_A_44476	NW_004515689.1	scaffold99	44476	GG	AA	AA	INTERGENIC		
SNP_63790_A_58352	NW_004515689.1	scaffold99	58352	CC	TT	TT	INTERGENIC		
SNP_63791_A_58378	NW_004515689.1	scaffold99	58378	CC	AA	AA	INTERGENIC		
SNP_63792_A_69590	NW_004515689.1	scaffold99	69590	GG	AA	AA	INTERGENIC		
SNP_63793_A_69634	NW_004515689.1	scaffold99	69634	AA	CC	CC	INTERGENIC		
SNP_63795_A_110442	NW_004515689.1	scaffold99	110442	TT	CC	CC	INTERGENIC		
SNP_63796_A_110486	NW_004515689.1	scaffold99	110486	AA	TT	TT	INTERGENIC		
SNP_63797_A_132461	NW_004515689.1	scaffold99	132461	AA	GG	GG	INTERGENIC		
SNP_63798_A_132473	NW_004515689.1	scaffold99	132473	GG	AA	AA	INTERGENIC		
SNP_63799_A_160695	NW_004515689.1	scaffold99	160695	TT	GG	GG	INTERGENIC		
SNP_63800_A_176534	NW_004515689.1	scaffold99	176534	GG	AA	AA	INTERGENIC		
SNP_63801_A_210575	NW_004515689.1	scaffold99	210575	AA	GG	GG	INTERGENIC		
SNP_63802_A_215175	NW_004515689.1	scaffold99	215175	AA	GG	GG	INTERGENIC		
SNP_63803_A_215181	NW_004515689.1	scaffold99	215181	TT	CC	CC	INTERGENIC		
SNP_63804_A_215569	NW_004515689.1	scaffold99	215569	GG	AA	AA	INTERGENIC		
SNP_63805_A_223287	NW_004515689.1	scaffold99	223287	TT	CC	CC	INTERGENIC		
SNP_63807_A_236912	NW_004515689.1	scaffold99	236912	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63808_A_236958	NW_004515689.1	scaffold99	236958	TT	CC	CC	INTERGENIC		
SNP_63809_A_242317	NW_004515689.1	scaffold99	242317	AA	GG	GG	INTERGENIC		
SNP_63810_A_9022	NW_004515690.1	scaffold100	9022	CC	TT	TT	INTERGENIC		
SNP_63811_A_9180	NW_004515690.1	scaffold100	9180	GG	TT	TT	INTERGENIC		
SNP_63812_A_9189	NW_004515690.1	scaffold100	9189	CC	TT	TT	INTERGENIC		
SNP_63813_A_9243	NW_004515690.1	scaffold100	9243	AA	TT	TT	INTERGENIC		
SNP_63814_A_9616	NW_004515690.1	scaffold100	9616	TT	CC	CC	INTERGENIC		
SNP_63815_A_9658	NW_004515690.1	scaffold100	9658	CC	TT	TT	INTERGENIC		
SNP_63816_A_14030	NW_004515690.1	scaffold100	14030	TT	AA	AA	URR	101504768	non-specific lipid-transfer protein A-like
SNP_63817_A_14637	NW_004515690.1	scaffold100	14637	TT	AA	AA	INTERGENIC		
SNP_63818_A_18770	NW_004515690.1	scaffold100	18770	TT	AA	AA	DRR	101505089	Unknown function
SNP_63819_A_18777	NW_004515690.1	scaffold100	18777	CC	TT	TT	DRR	101505089	Unknown function
SNP_63820_A_18779	NW_004515690.1	scaffold100	18779	AA	GG	GG	DRR	101505089	Unknown function
SNP_63821_A_18783	NW_004515690.1	scaffold100	18783	TT	CC	CC	DRR	101505089	Unknown function
SNP_63822_A_18789	NW_004515690.1	scaffold100	18789	GG	AA	AA	DRR	101505089	Unknown function
SNP_63823_A_18793	NW_004515690.1	scaffold100	18793	TT	GG	GG	DRR	101505089	Unknown function
SNP_63824_A_18804	NW_004515690.1	scaffold100	18804	GG	CC	CC	DRR	101505089	Unknown function
SNP_63825_A_18809	NW_004515690.1	scaffold100	18809	AA	TT	TT	DRR	101505089	Unknown function
SNP_63826_A_18846	NW_004515690.1	scaffold100	18846	AA	GG	GG	DRR	101505089	Unknown function
SNP_63827_A_18849	NW_004515690.1	scaffold100	18849	TT	CC	CC	DRR	101505089	Unknown function
SNP_63828_A_18854	NW_004515690.1	scaffold100	18854	GG	TT	TT	DRR	101505089	Unknown function
SNP_63829_A_18871	NW_004515690.1	scaffold100	18871	TT	AA	AA	DRR	101505089	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63830_A_18882	NW_004515690.1	scaffold100	18882	CC	TT	TT	DRR	101505089	Unknown function
SNP_63831_A_18895	NW_004515690.1	scaffold100	18895	GG	AA	AA	DRR	101505089	Unknown function
SNP_63832_A_18900	NW_004515690.1	scaffold100	18900	TT	CC	CC	DRR	101505089	Unknown function
SNP_63833_A_18902	NW_004515690.1	scaffold100	18902	GG	CC	CC	DRR	101505089	Unknown function
SNP_63834_A_18904	NW_004515690.1	scaffold100	18904	GG	AA	AA	DRR	101505089	Unknown function
SNP_63835_A_19220	NW_004515690.1	scaffold100	19220	TT	CC	CC	NON_SYNONYMOUS_CODING	101505089	Unknown function
SNP_63836_A_19231	NW_004515690.1	scaffold100	19231	AA	GG	GG	NON_SYNONYMOUS_CODING	101505089	Unknown function
SNP_63837_A_19301	NW_004515690.1	scaffold100	19301	GG	TT	TT	NON_SYNONYMOUS_CODING	101505089	Unknown function
SNP_63838_A_41455	NW_004515690.1	scaffold100	41455	TT	CC	CC	INTERGENIC		
SNP_63839_A_48285	NW_004515690.1	scaffold100	48285	GG	AA	AA	DRR	101410548	transfer RNA phenylalanine (anticodon GAA)
SNP_63840_A_53545	NW_004515690.1	scaffold100	53545	AA	GG	GG	INTERGENIC		
SNP_63841_A_53550	NW_004515690.1	scaffold100	53550	TT	GG	GG	INTERGENIC		
SNP_63842_A_46894	NW_004515691.1	scaffold102	46894	CC	GG	GG	INTERGENIC		
SNP_63843_A_51019	NW_004515691.1	scaffold102	51019	TT	GG	GG	INTERGENIC		
SNP_63844_A_104695	NW_004515691.1	scaffold102	104695	TT	CC	CC	INTERGENIC		
SNP_63845_A_104842	NW_004515691.1	scaffold102	104842	CC	TT	TT	INTERGENIC		
SNP_63846_A_105059	NW_004515691.1	scaffold102	105059	AA	GG	GG	INTERGENIC		
SNP_63847_A_106792	NW_004515691.1	scaffold102	106792	GG	TT	TT	INTERGENIC		
SNP_63848_A_121784	NW_004515691.1	scaffold102	121784	TT	AA	AA	INTERGENIC		
SNP_63849_A_144133	NW_004515691.1	scaffold102	144133	AA	CC	CC	INTERGENIC		
SNP_63850_A_144175	NW_004515691.1	scaffold102	144175	TT	AA	AA	INTERGENIC		
SNP_63851_A_1198	NW_004515693.1	scaffold106	1198	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63852_A_8281	NW_004515694.1	scaffold109_1	8281	GG	AA	AA	INTERGENIC			
SNP_63853_A_8339	NW_004515694.1	scaffold109_1	8339	AA	GG	GG	INTERGENIC			
SNP_63854_A_12627	NW_004515694.1	scaffold109_1	12627	TT	GG	GG	INTERGENIC			
SNP_63855_A_60582	NW_004515694.1	scaffold109_1	60582	CC	AA	AA	INTERGENIC			
SNP_63856_A_60669	NW_004515694.1	scaffold109_1	60669	AA	GG	GG	INTERGENIC			
SNP_63857_A_60778	NW_004515694.1	scaffold109_1	60778	TT	GG	GG	INTERGENIC			
SNP_63858_A_60798	NW_004515694.1	scaffold109_1	60798	AA	CC	CC	INTERGENIC			
SNP_63859_A_60837	NW_004515694.1	scaffold109_1	60837	AA	CC	CC	INTERGENIC			
SNP_63860_A_60840	NW_004515694.1	scaffold109_1	60840	TT	CC	CC	INTERGENIC			
SNP_63861_A_60922	NW_004515694.1	scaffold109_1	60922	GG	AA	AA	INTERGENIC			
SNP_63862_A_60945	NW_004515694.1	scaffold109_1	60945	TT	CC	CC	INTERGENIC			
SNP_63863_A_60970	NW_004515694.1	scaffold109_1	60970	TT	AA	AA	INTERGENIC			
SNP_63864_A_61024	NW_004515694.1	scaffold109_1	61024	CC	TT	TT	INTERGENIC			
SNP_63865_A_61030	NW_004515694.1	scaffold109_1	61030	GG	AA	AA	INTERGENIC			
SNP_63866_A_61033	NW_004515694.1	scaffold109_1	61033	CC	TT	TT	INTERGENIC			
SNP_63867_A_61051	NW_004515694.1	scaffold109_1	61051	AA	CC	CC	INTERGENIC			
SNP_63868_A_61054	NW_004515694.1	scaffold109_1	61054	AA	TT	TT	INTERGENIC			
SNP_63869_A_61084	NW_004515694.1	scaffold109_1	61084	TT	CC	CC	INTERGENIC			
SNP_63870_A_61114	NW_004515694.1	scaffold109_1	61114	TT	CC	CC	INTERGENIC			
SNP_63871_A_61159	NW_004515694.1	scaffold109_1	61159	GG	AA	AA	INTERGENIC			
SNP_63872_A_95531	NW_004515694.1	scaffold109_1	95531	GG	TT	TT	INTERGENIC			
SNP_63877_A_221279	NW_004515694.1	scaffold109_1	221279	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63878_A_245825	NW_004515694.1	scaffold109_1	245825	AA	GG	GG	URR	101510445	uncharacterized LOC101510445
SNP_63879_A_245826	NW_004515694.1	scaffold109_1	245826	AA	CC	CC	URR	101510445	uncharacterized LOC101510445
SNP_63880_A_246827	NW_004515694.1	scaffold109_1	246827	CC	GG	GG	URR	101510445	uncharacterized LOC101510445
SNP_63881_A_246847	NW_004515694.1	scaffold109_1	246847	TT	GG	GG	URR	101510445	uncharacterized LOC101510445
SNP_63882_A_246970	NW_004515694.1	scaffold109_1	246970	CC	TT	TT	URR	101510445	uncharacterized LOC101510445
SNP_63883_A_247276	NW_004515694.1	scaffold109_1	247276	AA	CC	CC	URR	101510445	uncharacterized LOC101510445
SNP_63884_A_247313	NW_004515694.1	scaffold109_1	247313	TT	CC	CC	URR	101510445	uncharacterized LOC101510445
SNP_63885_A_248646	NW_004515694.1	scaffold109_1	248646	AA	GG	GG	INTERGENIC		
SNP_63886_A_310111	NW_004515694.1	scaffold109_1	310111	CC	TT	TT	INTERGENIC		
SNP_63889_A_410584	NW_004515694.1	scaffold109_1	410584	TT	AA	AA	URR	101496839	probable flavin-containing monooxygenase 1
SNP_63891_A_488771	NW_004515694.1	scaffold109_1	488771	GG	AA	AA	INTERGENIC		
SNP_63892_A_504436	NW_004515694.1	scaffold109_1	504436	GG	AA	AA	INTERGENIC		
SNP_63893_A_504517	NW_004515694.1	scaffold109_1	504517	TT	CC	CC	INTERGENIC		
SNP_63894_A_504764	NW_004515694.1	scaffold109_1	504764	AA	GG	GG	INTERGENIC		
SNP_63895_A_504855	NW_004515694.1	scaffold109_1	504855	AA	CC	CC	INTERGENIC		
SNP_63896_A_504878	NW_004515694.1	scaffold109_1	504878	GG	TT	TT	INTERGENIC		
SNP_63897_A_504932	NW_004515694.1	scaffold109_1	504932	AA	GG	GG	INTERGENIC		
SNP_63898_A_504936	NW_004515694.1	scaffold109_1	504936	TT	CC	CC	INTERGENIC		
SNP_63899_A_539343	NW_004515694.1	scaffold109_1	539343	TT	GG	GG	INTERGENIC		
SNP_63900_A_564236	NW_004515694.1	scaffold109_1	564236	AA	CC	CC	DRR	101490364	mechanosensitive ion channel protein 10-like
SNP_63901_A_569418	NW_004515694.1	scaffold109_1	569418	TT	CC	CC	URR	101490364	mechanosensitive ion channel protein 10-like
SNP_63902_A_569445	NW_004515694.1	scaffold109_1	569445	TT	CC	CC	URR	101490364	mechanosensitive ion channel protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63903_A_569506	NW_004515694.1	scaffold109_1	569506	AA	GG	GG	URR	101490364	mechanosensitive ion channel protein 10-like
SNP_63904_A_628044	NW_004515694.1	scaffold109_1	628044	AA	GG	GG	INTERGENIC		
SNP_63905_A_670594	NW_004515694.1	scaffold109_1	670594	AA	GG	GG	INTERGENIC		
SNP_63906_A_671451	NW_004515694.1	scaffold109_1	671451	TT	AA	AA	INTERGENIC		
SNP_63907_A_728576	NW_004515694.1	scaffold109_1	728576	AA	GG	GG	INTERGENIC		
SNP_63908_A_759395	NW_004515694.1	scaffold109_1	759395	CC	TT	TT	INTERGENIC		
SNP_63909_A_763675	NW_004515694.1	scaffold109_1	763675	CC	TT	TT	INTERGENIC		
SNP_63910_A_5876	NW_004515695.1	scaffold110	5876	CC	TT	TT	INTERGENIC		
SNP_63911_A_49665	NW_004515696.1	scaffold111	49665	TT	CC	CC	URR	101500412	uncharacterized LOC101500412
SNP_63912_A_49675	NW_004515696.1	scaffold111	49675	CC	TT	TT	URR	101500412	uncharacterized LOC101500412
SNP_63913_A_67975	NW_004515696.1	scaffold111	67975	GG	TT	TT	INTERGENIC		
SNP_63914_A_69986	NW_004515696.1	scaffold111	69986	AA	TT	TT	INTERGENIC		
SNP_63915_A_72229	NW_004515696.1	scaffold111	72229	AA	TT	TT	INTERGENIC		
SNP_63916_A_72237	NW_004515696.1	scaffold111	72237	AA	GG	GG	INTERGENIC		
SNP_63917_A_72250	NW_004515696.1	scaffold111	72250	TT	AA	AA	INTERGENIC		
SNP_63920_A_4037	NW_004515697.1	scaffold113	4037	TT	CC	CC	INTERGENIC		
SNP_63921_A_4196	NW_004515697.1	scaffold113	4196	AA	TT	TT	INTERGENIC		
SNP_63922_A_5106	NW_004515699.1	scaffold115	5106	CC	GG	GG	INTERGENIC		
SNP_63923_A_8708	NW_004515699.1	scaffold115	8708	AA	CC	CC	INTERGENIC		
SNP_63924_A_45624	NW_004515699.1	scaffold115	45624	AA	GG	GG	INTERGENIC		
SNP_63925_A_51732	NW_004515699.1	scaffold115	51732	GG	AA	AA	INTERGENIC		
SNP_63926_A_52045	NW_004515699.1	scaffold115	52045	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_63928_A_52231	NW_004515699.1	scaffold115	52231	TT	AA	AA	INTERGENIC			
SNP_63929_A_52249	NW_004515699.1	scaffold115	52249	TT	CC	CC	INTERGENIC			
SNP_63930_A_52259	NW_004515699.1	scaffold115	52259	AA	CC	CC	INTERGENIC			
SNP_63931_A_52360	NW_004515699.1	scaffold115	52360	CC	TT	TT	INTERGENIC			
SNP_63932_A_52400	NW_004515699.1	scaffold115	52400	CC	AA	AA	INTERGENIC			
SNP_63933_A_52459	NW_004515699.1	scaffold115	52459	CC	AA	AA	INTERGENIC			
SNP_63934_A_52551	NW_004515699.1	scaffold115	52551	GG	TT	TT	INTERGENIC			
SNP_63935_A_52896	NW_004515699.1	scaffold115	52896	GG	AA	AA	INTERGENIC			
SNP_63936_A_52939	NW_004515699.1	scaffold115	52939	CC	TT	TT	INTERGENIC			
SNP_63937_A_52984	NW_004515699.1	scaffold115	52984	GG	AA	AA	INTERGENIC			
SNP_63938_A_52993	NW_004515699.1	scaffold115	52993	TT	AA	AA	INTERGENIC			
SNP_63939_A_53576	NW_004515699.1	scaffold115	53576	CC	AA	AA	INTERGENIC			
SNP_63940_A_56838	NW_004515699.1	scaffold115	56838	AA	CC	CC	INTERGENIC			
SNP_63941_A_57116	NW_004515699.1	scaffold115	57116	CC	AA	AA	INTERGENIC			
SNP_63942_A_57118	NW_004515699.1	scaffold115	57118	AA	CC	CC	INTERGENIC			
SNP_63943_A_26891	NW_004515700.1	scaffold118	26891	CC	AA	AA	INTERGENIC			
SNP_63944_A_27176	NW_004515700.1	scaffold118	27176	GG	AA	AA	INTERGENIC			
SNP_63945_A_27200	NW_004515700.1	scaffold118	27200	GG	AA	AA	INTERGENIC			
SNP_63946_A_27241	NW_004515700.1	scaffold118	27241	AA	GG	GG	INTERGENIC			
SNP_63947_A_30528	NW_004515700.1	scaffold118	30528	TT	CC	CC	INTERGENIC			
SNP_63948_A_30534	NW_004515700.1	scaffold118	30534	AA	GG	GG	INTERGENIC			
SNP_63949_A_30566	NW_004515700.1	scaffold118	30566	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63950_A_80425	NW_004515700.1	scaffold118	80425	CC	TT	TT	INTERGENIC		
SNP_63951_A_80598	NW_004515700.1	scaffold118	80598	GG	AA	AA	INTERGENIC		
SNP_63953_A_113345	NW_004515700.1	scaffold118	113345	CC	TT	TT	INTRON	101504884	uncharacterized LOC101504884
SNP_63954_A_113357	NW_004515700.1	scaffold118	113357	CC	TT	TT	INTRON	101504884	uncharacterized LOC101504884
SNP_63955_A_113452	NW_004515700.1	scaffold118	113452	TT	CC	CC	INTRON	101504884	uncharacterized LOC101504884
SNP_63956_A_113471	NW_004515700.1	scaffold118	113471	TT	CC	CC	INTRON	101504884	uncharacterized LOC101504884
SNP_63957_A_118255	NW_004515700.1	scaffold118	118255	CC	AA	AA	INTRON	101504884	uncharacterized LOC101504884
SNP_63958_A_118269	NW_004515700.1	scaffold118	118269	GG	AA	AA	INTRON	101504884	uncharacterized LOC101504884
SNP_63959_A_118502	NW_004515700.1	scaffold118	118502	AA	GG	GG	INTRON	101504884	uncharacterized LOC101504884
SNP_63960_A_152723	NW_004515700.1	scaffold118	152723	CC	TT	TT	INTERGENIC		
SNP_63961_A_171253	NW_004515700.1	scaffold118	171253	TT	AA	AA	INTERGENIC		
SNP_63962_A_173131	NW_004515700.1	scaffold118	173131	CC	TT	TT	INTERGENIC		
SNP_63964_A_178466	NW_004515700.1	scaffold118	178466	CC	TT	TT	INTERGENIC		
SNP_63965_A_178471	NW_004515700.1	scaffold118	178471	AA	GG	GG	INTERGENIC		
SNP_63966_A_178477	NW_004515700.1	scaffold118	178477	AA	GG	GG	INTERGENIC		
SNP_63967_A_463287	NW_004515700.1	scaffold118	463287	GG	AA	AA	INTERGENIC		
SNP_63968_A_463288	NW_004515700.1	scaffold118	463288	AA	TT	TT	INTERGENIC		
SNP_63969_A_463296	NW_004515700.1	scaffold118	463296	TT	GG	GG	INTERGENIC		
SNP_63970_A_463346	NW_004515700.1	scaffold118	463346	TT	CC	CC	INTERGENIC		
SNP_63971_A_463349	NW_004515700.1	scaffold118	463349	CC	TT	TT	INTERGENIC		
SNP_63972_A_465492	NW_004515700.1	scaffold118	465492	TT	CC	CC	INTERGENIC		
SNP_63973_A_465787	NW_004515700.1	scaffold118	465787	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_63974_A_465864	NW_004515700.1	scaffold118	465864	CC	TT	TT	INTERGENIC		
SNP_63975_A_465896	NW_004515700.1	scaffold118	465896	CC	GG	GG	INTERGENIC		
SNP_63976_A_466136	NW_004515700.1	scaffold118	466136	TT	CC	CC	INTERGENIC		
SNP_63977_A_512252	NW_004515700.1	scaffold118	512252	GG	AA	AA	INTERGENIC		
SNP_63978_A_549161	NW_004515700.1	scaffold118	549161	TT	CC	CC	INTERGENIC		
SNP_63979_A_554065	NW_004515700.1	scaffold118	554065	GG	AA	AA	DRR	101508425	uncharacterized LOC101508425
SNP_63980_A_554588	NW_004515700.1	scaffold118	554588	CC	TT	TT	SYNONYMOUS_CODING	101508425	uncharacterized LOC101508425
SNP_63981_A_558213	NW_004515700.1	scaffold118	558213	AA	GG	GG	NON_SYNONYMOUS_CODING	101508425	uncharacterized LOC101508425
SNP_63982_A_558919	NW_004515700.1	scaffold118	558919	TT	CC	CC	INTRON	101508425	uncharacterized LOC101508425
SNP_63983_A_560636	NW_004515700.1	scaffold118	560636	TT	CC	CC	INTRON	101508425	uncharacterized LOC101508425
SNP_63985_A_592467	NW_004515700.1	scaffold118	592467	AA	CC	CC	INTERGENIC		
SNP_63986_A_592566	NW_004515700.1	scaffold118	592566	CC	GG	GG	INTERGENIC		
SNP_63987_A_593072	NW_004515700.1	scaffold118	593072	GG	AA	AA	INTERGENIC		
SNP_63988_A_12060	NW_004515701.1	scaffold119	12060	AA	GG	GG	INTERGENIC		
SNP_63990_A_12279	NW_004515701.1	scaffold119	12279	GG	AA	AA	INTERGENIC		
SNP_63991_A_15749	NW_004515701.1	scaffold119	15749	CC	TT	TT	INTERGENIC		
SNP_63992_A_16238	NW_004515701.1	scaffold119	16238	AA	CC	CC	INTERGENIC		
SNP_63994_A_16302	NW_004515701.1	scaffold119	16302	AA	TT	TT	INTERGENIC		
SNP_63996_A_16659	NW_004515701.1	scaffold119	16659	CC	AA	AA	INTERGENIC		
SNP_63997_A_16902	NW_004515701.1	scaffold119	16902	GG	AA	AA	INTERGENIC		
SNP_63998_A_17087	NW_004515701.1	scaffold119	17087	TT	AA	AA	INTERGENIC		
SNP_63999_A_17237	NW_004515701.1	scaffold119	17237	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64000_A_17437	NW_004515701.1	scaffold119	17437	GG	AA	AA	INTERGENIC			
SNP_64001_A_17487	NW_004515701.1	scaffold119	17487	GG	AA	AA	INTERGENIC			
SNP_64002_A_17740	NW_004515701.1	scaffold119	17740	AA	GG	GG	INTERGENIC			
SNP_64003_A_17977	NW_004515701.1	scaffold119	17977	AA	TT	TT	INTERGENIC			
SNP_64004_A_18283	NW_004515701.1	scaffold119	18283	TT	GG	GG	INTERGENIC			
SNP_64005_A_18354	NW_004515701.1	scaffold119	18354	GG	CC	CC	INTERGENIC			
SNP_64006_A_26547	NW_004515701.1	scaffold119	26547	GG	AA	AA	INTERGENIC			
SNP_64008_A_48164	NW_004515701.1	scaffold119	48164	TT	CC	CC	INTERGENIC			
SNP_64009_A_48211	NW_004515701.1	scaffold119	48211	GG	AA	AA	INTERGENIC			
SNP_64010_A_48588	NW_004515701.1	scaffold119	48588	TT	CC	CC	INTERGENIC			
SNP_64011_A_48596	NW_004515701.1	scaffold119	48596	AA	GG	GG	INTERGENIC			
SNP_64012_A_52777	NW_004515701.1	scaffold119	52777	TT	GG	GG	INTERGENIC			
SNP_64013_A_70308	NW_004515701.1	scaffold119	70308	TT	CC	CC	INTERGENIC			
SNP_64015_A_71253	NW_004515701.1	scaffold119	71253	GG	AA	AA	INTERGENIC			
SNP_64016_A_71263	NW_004515701.1	scaffold119	71263	TT	AA	AA	INTERGENIC			
SNP_64017_A_16170	NW_004515702.1	scaffold120	16170	GG	AA	AA	INTERGENIC			
SNP_64018_A_16240	NW_004515702.1	scaffold120	16240	GG	AA	AA	INTERGENIC			
SNP_64019_A_9104	NW_004515703.1	scaffold123	9104	AA	TT	TT	INTERGENIC			
SNP_64020_A_33511	NW_004515703.1	scaffold123	33511	TT	AA	AA	INTERGENIC			
SNP_64021_A_33714	NW_004515703.1	scaffold123	33714	TT	CC	CC	INTERGENIC			
SNP_64022_A_33723	NW_004515703.1	scaffold123	33723	AA	GG	GG	INTERGENIC			
SNP_64024_A_35049	NW_004515703.1	scaffold123	35049	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64025_A_35392	NW_004515703.1	scaffold123	35392	GG	AA	AA	INTERGENIC			
SNP_64026_A_37574	NW_004515703.1	scaffold123	37574	GG	AA	AA	INTERGENIC			
SNP_64027_A_37578	NW_004515703.1	scaffold123	37578	TT	GG	GG	INTERGENIC			
SNP_64028_A_37579	NW_004515703.1	scaffold123	37579	CC	GG	GG	INTERGENIC			
SNP_64029_A_66723	NW_004515703.1	scaffold123	66723	TT	CC	CC	INTERGENIC			
SNP_64030_A_66799	NW_004515703.1	scaffold123	66799	TT	CC	CC	INTERGENIC			
SNP_64031_A_66956	NW_004515703.1	scaffold123	66956	TT	CC	CC	INTERGENIC			
SNP_64032_A_67162	NW_004515703.1	scaffold123	67162	AA	GG	GG	INTERGENIC			
SNP_64034_A_136477	NW_004515703.1	scaffold123	136477	AA	GG	GG	INTERGENIC			
SNP_64035_A_141782	NW_004515703.1	scaffold123	141782	TT	AA	AA	INTERGENIC			
SNP_64036_A_235209	NW_004515703.1	scaffold123	235209	CC	TT	TT	INTERGENIC			
SNP_64037_A_300316	NW_004515703.1	scaffold123	300316	CC	AA	AA	INTERGENIC			
SNP_64039_A_3372	NW_004515705.1	scaffold126	3372	CC	TT	TT	INTERGENIC			
SNP_64040_A_6879	NW_004515705.1	scaffold126	6879	GG	AA	AA	INTERGENIC			
SNP_64041_A_6889	NW_004515705.1	scaffold126	6889	CC	AA	AA	INTERGENIC			
SNP_64042_A_7711	NW_004515705.1	scaffold126	7711	CC	TT	TT	INTERGENIC			
SNP_64043_A_12166	NW_004515705.1	scaffold126	12166	CC	AA	AA	INTERGENIC			
SNP_64044_A_16344	NW_004515705.1	scaffold126	16344	GG	AA	AA	INTERGENIC			
SNP_64045_A_16349	NW_004515705.1	scaffold126	16349	TT	CC	CC	INTERGENIC			
SNP_64046_A_16404	NW_004515705.1	scaffold126	16404	TT	CC	CC	INTERGENIC			
SNP_64047_A_610	NW_004515706.1	scaffold127	610	TT	AA	AA	INTERGENIC			
SNP_64048_A_3021	NW_004515706.1	scaffold127	3021	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64049_A_19927	NW_004515706.1	scaffold127	19927	TT	AA	AA	INTERGENIC			
SNP_64050_A_20213	NW_004515706.1	scaffold127	20213	GG	TT	TT	INTERGENIC			
SNP_64051_A_20389	NW_004515706.1	scaffold127	20389	GG	TT	TT	INTERGENIC			
SNP_64052_A_20421	NW_004515706.1	scaffold127	20421	AA	GG	GG	INTERGENIC			
SNP_64053_A_20555	NW_004515706.1	scaffold127	20555	AA	GG	GG	INTERGENIC			
SNP_64054_A_46836	NW_004515706.1	scaffold127	46836	AA	GG	GG	INTERGENIC			
SNP_64055_A_47111	NW_004515706.1	scaffold127	47111	TT	AA	AA	INTERGENIC			
SNP_64056_A_47169	NW_004515706.1	scaffold127	47169	CC	TT	TT	INTERGENIC			
SNP_64057_A_53605	NW_004515706.1	scaffold127	53605	TT	GG	GG	INTERGENIC			
SNP_64058_A_53607	NW_004515706.1	scaffold127	53607	TT	AA	AA	INTERGENIC			
SNP_64059_A_53608	NW_004515706.1	scaffold127	53608	GG	AA	AA	INTERGENIC			
SNP_64060_A_54097	NW_004515706.1	scaffold127	54097	AA	TT	TT	INTERGENIC			
SNP_64061_A_54510	NW_004515706.1	scaffold127	54510	GG	TT	TT	INTERGENIC			
SNP_64062_A_54740	NW_004515706.1	scaffold127	54740	AA	GG	GG	INTERGENIC			
SNP_64063_A_55066	NW_004515706.1	scaffold127	55066	TT	CC	CC	INTERGENIC			
SNP_64064_A_55117	NW_004515706.1	scaffold127	55117	TT	CC	CC	INTERGENIC			
SNP_64066_A_69573	NW_004515706.1	scaffold127	69573	CC	TT	TT	INTERGENIC			
SNP_64067_A_114329	NW_004515706.1	scaffold127	114329	CC	TT	TT	INTERGENIC			
SNP_64068_A_132604	NW_004515706.1	scaffold127	132604	GG	TT	TT	INTERGENIC			
SNP_64069_A_135547	NW_004515706.1	scaffold127	135547	TT	GG	GG	INTERGENIC			
SNP_64070_A_135809	NW_004515706.1	scaffold127	135809	GG	AA	AA	INTERGENIC			
SNP_64071_A_135892	NW_004515706.1	scaffold127	135892	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64072_A_135893	NW_004515706.1	scaffold127	135893	CC	TT	TT	INTERGENIC			
SNP_64073_A_136033	NW_004515706.1	scaffold127	136033	GG	AA	AA	INTERGENIC			
SNP_64074_A_136446	NW_004515706.1	scaffold127	136446	TT	CC	CC	INTERGENIC			
SNP_64075_A_136876	NW_004515706.1	scaffold127	136876	AA	TT	TT	INTERGENIC			
SNP_64076_A_144628	NW_004515706.1	scaffold127	144628	CC	AA	AA	INTERGENIC			
SNP_64078_A_152281	NW_004515706.1	scaffold127	152281	TT	CC	CC	INTERGENIC			
SNP_64079_A_165654	NW_004515706.1	scaffold127	165654	GG	CC	CC	INTERGENIC			
SNP_64080_A_184777	NW_004515706.1	scaffold127	184777	TT	CC	CC	INTERGENIC			
SNP_64081_A_184819	NW_004515706.1	scaffold127	184819	AA	GG	GG	INTERGENIC			
SNP_64082_A_184885	NW_004515706.1	scaffold127	184885	AA	CC	CC	INTERGENIC			
SNP_64083_A_184892	NW_004515706.1	scaffold127	184892	CC	TT	TT	INTERGENIC			
SNP_64084_A_184910	NW_004515706.1	scaffold127	184910	CC	TT	TT	INTERGENIC			
SNP_64085_A_184921	NW_004515706.1	scaffold127	184921	CC	TT	TT	INTERGENIC			
SNP_64086_A_184953	NW_004515706.1	scaffold127	184953	TT	AA	AA	INTERGENIC			
SNP_64087_A_184979	NW_004515706.1	scaffold127	184979	AA	GG	GG	INTERGENIC			
SNP_64088_A_185067	NW_004515706.1	scaffold127	185067	TT	CC	CC	INTERGENIC			
SNP_64089_A_185125	NW_004515706.1	scaffold127	185125	TT	CC	CC	INTERGENIC			
SNP_64090_A_185201	NW_004515706.1	scaffold127	185201	GG	AA	AA	INTERGENIC			
SNP_64091_A_198435	NW_004515706.1	scaffold127	198435	TT	AA	AA	INTERGENIC			
SNP_64092_A_198447	NW_004515706.1	scaffold127	198447	TT	CC	CC	INTERGENIC			
SNP_64093_A_198457	NW_004515706.1	scaffold127	198457	AA	GG	GG	INTERGENIC			
SNP_64094_A_199697	NW_004515706.1	scaffold127	199697	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64095_A_216827	NW_004515706.1	scaffold127	216827	CC	TT	TT	INTERGENIC			
SNP_64096_A_229371	NW_004515706.1	scaffold127	229371	AA	GG	GG	INTERGENIC			
SNP_64097_A_229456	NW_004515706.1	scaffold127	229456	TT	CC	CC	INTERGENIC			
SNP_64098_A_229457	NW_004515706.1	scaffold127	229457	AA	GG	GG	INTERGENIC			
SNP_64099_A_229469	NW_004515706.1	scaffold127	229469	GG	AA	AA	INTERGENIC			
SNP_64100_A_232071	NW_004515706.1	scaffold127	232071	CC	TT	TT	INTERGENIC			
SNP_64101_A_232103	NW_004515706.1	scaffold127	232103	AA	CC	CC	INTERGENIC			
SNP_64102_A_232149	NW_004515706.1	scaffold127	232149	TT	CC	CC	INTERGENIC			
SNP_64103_A_240276	NW_004515706.1	scaffold127	240276	TT	AA	AA	INTERGENIC			
SNP_64104_A_240287	NW_004515706.1	scaffold127	240287	CC	TT	TT	INTERGENIC			
SNP_64105_A_242739	NW_004515706.1	scaffold127	242739	GG	CC	CC	INTERGENIC			
SNP_64106_A_255784	NW_004515706.1	scaffold127	255784	TT	CC	CC	INTERGENIC			
SNP_64107_A_256051	NW_004515706.1	scaffold127	256051	AA	TT	TT	INTERGENIC			
SNP_64108_A_256064	NW_004515706.1	scaffold127	256064	TT	CC	CC	INTERGENIC			
SNP_64110_A_256106	NW_004515706.1	scaffold127	256106	AA	TT	TT	INTERGENIC			
SNP_64111_A_256808	NW_004515706.1	scaffold127	256808	AA	CC	CC	INTERGENIC			
SNP_64112_A_265792	NW_004515706.1	scaffold127	265792	AA	TT	TT	INTERGENIC			
SNP_64113_A_265873	NW_004515706.1	scaffold127	265873	CC	TT	TT	INTERGENIC			
SNP_64114_A_270011	NW_004515706.1	scaffold127	270011	TT	CC	CC	INTERGENIC			
SNP_64115_A_270012	NW_004515706.1	scaffold127	270012	AA	CC	CC	INTERGENIC			
SNP_64117_A_270062	NW_004515706.1	scaffold127	270062	GG	AA	AA	INTERGENIC			
SNP_64118_A_270214	NW_004515706.1	scaffold127	270214	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64119_A_270319	NW_004515706.1	scaffold127	270319	AA	CC	CC	INTERGENIC			
SNP_64120_A_270342	NW_004515706.1	scaffold127	270342	TT	CC	CC	INTERGENIC			
SNP_64121_A_270343	NW_004515706.1	scaffold127	270343	CC	TT	TT	INTERGENIC			
SNP_64123_A_270537	NW_004515706.1	scaffold127	270537	AA	GG	GG	INTERGENIC			
SNP_64124_A_271126	NW_004515706.1	scaffold127	271126	TT	CC	CC	INTERGENIC			
SNP_64125_A_271175	NW_004515706.1	scaffold127	271175	AA	TT	TT	INTERGENIC			
SNP_64126_A_271188	NW_004515706.1	scaffold127	271188	CC	TT	TT	INTERGENIC			
SNP_64127_A_271198	NW_004515706.1	scaffold127	271198	TT	AA	AA	INTERGENIC			
SNP_64128_A_275006	NW_004515706.1	scaffold127	275006	TT	CC	CC	INTERGENIC			
SNP_64129_A_279755	NW_004515706.1	scaffold127	279755	GG	TT	TT	INTERGENIC			
SNP_64130_A_299611	NW_004515706.1	scaffold127	299611	AA	GG	GG	INTERGENIC			
SNP_64131_A_304939	NW_004515706.1	scaffold127	304939	AA	GG	GG	INTERGENIC			
SNP_64132_A_304960	NW_004515706.1	scaffold127	304960	TT	GG	GG	INTERGENIC			
SNP_64133_A_5690	NW_004515707.1	scaffold128	5690	AA	CC	TT	INTERGENIC			
SNP_64134_A_5692	NW_004515707.1	scaffold128	5692	AA	GG	GG	INTERGENIC			
SNP_64135_A_5728	NW_004515707.1	scaffold128	5728	TT	GG	GG	INTERGENIC			
SNP_64136_A_5961	NW_004515707.1	scaffold128	5961	AA	CC	CC	INTERGENIC			
SNP_64137_A_6065	NW_004515707.1	scaffold128	6065	AA	GG	GG	INTERGENIC			
SNP_64138_A_20596	NW_004515707.1	scaffold128	20596	GG	TT	TT	INTERGENIC			
SNP_64139_A_32585	NW_004515707.1	scaffold128	32585	AA	CC	CC	URR	101490026	uncharacterized LOC101490026	
SNP_64140_A_32595	NW_004515707.1	scaffold128	32595	AA	GG	GG	URR	101490026	uncharacterized LOC101490026	
SNP_64141_A_32599	NW_004515707.1	scaffold128	32599	CC	TT	TT	URR	101490026	uncharacterized LOC101490026	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64142_A_32622	NW_004515707.1	scaffold128	32622	AA	GG	GG	URR	101490026	uncharacterized LOC101490026
SNP_64143_A_32691	NW_004515707.1	scaffold128	32691	GG	CC	CC	INTERGENIC		
SNP_64144_A_32711	NW_004515707.1	scaffold128	32711	GG	AA	AA	INTERGENIC		
SNP_64145_A_32767	NW_004515707.1	scaffold128	32767	TT	CC	CC	INTERGENIC		
SNP_64146_A_32812	NW_004515707.1	scaffold128	32812	TT	CC	CC	INTERGENIC		
SNP_64147_A_32836	NW_004515707.1	scaffold128	32836	CC	AA	AA	INTERGENIC		
SNP_64149_A_51993	NW_004515707.1	scaffold128	51993	GG	AA	AA	INTRON	101490365	uncharacterized LOC101490365
SNP_64151_A_177018	NW_004515707.1	scaffold128	177018	TT	CC	CC	DRR	101514225	uncharacterized LOC101514225
SNP_64152_A_177144	NW_004515707.1	scaffold128	177144	AA	TT	TT	DRR	101514225	uncharacterized LOC101514225
SNP_64153_A_197778	NW_004515707.1	scaffold128	197778	TT	GG	GG	INTRON	101514433	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-13
SNP_64154_A_197781	NW_004515707.1	scaffold128	197781	TT	CC	CC	INTRON	101514433	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-13
SNP_64155_A_197803	NW_004515707.1	scaffold128	197803	AA	GG	GG	INTRON	101514433	G-type lectin S-receptor-like serine/threonine-protein kinase SD1-13
SNP_64156_A_227866	NW_004515707.1	scaffold128	227866	GG	TT	TT	NON_SYNONYMOUS_CODING	101491006	uncharacterized LOC101491006
SNP_64157_A_227875	NW_004515707.1	scaffold128	227875	TT	CC	CC	SYNONYMOUS_CODING	101491006	uncharacterized LOC101491006
SNP_64158_A_240687	NW_004515707.1	scaffold128	240687	TT	CC	CC	INTERGENIC		
SNP_64159_A_285506	NW_004515707.1	scaffold128	285506	GG	AA	AA	INTERGENIC		
SNP_64160_A_344005	NW_004515707.1	scaffold128	344005	CC	TT	TT	INTERGENIC		
SNP_64161_A_346086	NW_004515707.1	scaffold128	346086	AA	GG	GG	INTERGENIC		
SNP_64162_A_346113	NW_004515707.1	scaffold128	346113	AA	GG	GG	INTERGENIC		
SNP_64163_A_346122	NW_004515707.1	scaffold128	346122	TT	AA	AA	INTERGENIC		
SNP_64164_A_346172	NW_004515707.1	scaffold128	346172	AA	GG	GG	INTERGENIC		
SNP_64165_A_346336	NW_004515707.1	scaffold128	346336	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64168_A_393099	NW_004515707.1	scaffold128	393099	TT	CC	CC	INTERGENIC			
SNP_64169_A_393384	NW_004515707.1	scaffold128	393384	TT	CC	CC	INTERGENIC			
SNP_64170_A_393520	NW_004515707.1	scaffold128	393520	AA	TT	TT	INTERGENIC			
SNP_64171_A_393613	NW_004515707.1	scaffold128	393613	AA	TT	TT	INTERGENIC			
SNP_64172_A_407777	NW_004515707.1	scaffold128	407777	TT	CC	CC	INTERGENIC			
SNP_64173_A_416825	NW_004515707.1	scaffold128	416825	TT	CC	CC	INTERGENIC			
SNP_64174_A_416833	NW_004515707.1	scaffold128	416833	TT	GG	GG	INTERGENIC			
SNP_64175_A_417222	NW_004515707.1	scaffold128	417222	TT	CC	CC	INTERGENIC			
SNP_64176_A_427975	NW_004515707.1	scaffold128	427975	TT	CC	CC	INTERGENIC			
SNP_64177_A_429459	NW_004515707.1	scaffold128	429459	GG	TT	TT	INTERGENIC			
SNP_64178_A_430434	NW_004515707.1	scaffold128	430434	GG	AA	AA	INTERGENIC			
SNP_64179_A_433605	NW_004515707.1	scaffold128	433605	AA	CC	CC	INTERGENIC			
SNP_64180_A_435907	NW_004515707.1	scaffold128	435907	AA	TT	TT	INTERGENIC			
SNP_64182_A_437346	NW_004515707.1	scaffold128	437346	AA	TT	TT	INTERGENIC			
SNP_64183_A_448594	NW_004515707.1	scaffold128	448594	TT	AA	AA	INTERGENIC			
SNP_64184_A_450425	NW_004515707.1	scaffold128	450425	CC	AA	AA	INTERGENIC			
SNP_64185_A_450878	NW_004515707.1	scaffold128	450878	AA	TT	TT	INTERGENIC			
SNP_64186_A_452886	NW_004515707.1	scaffold128	452886	AA	GG	GG	INTERGENIC			
SNP_64187_A_475930	NW_004515707.1	scaffold128	475930	AA	CC	CC	URR	101488386	protein TPLATE	
SNP_64188_A_531913	NW_004515707.1	scaffold128	531913	AA	TT	TT	INTERGENIC			
SNP_64189_A_532045	NW_004515707.1	scaffold128	532045	TT	CC	CC	INTERGENIC			
SNP_64190_A_532049	NW_004515707.1	scaffold128	532049	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64191_A_532175	NW_004515707.1	scaffold128	532175	TT	CC	CC	URR	101492952	uncharacterized LOC101492952
SNP_64192_A_537743	NW_004515707.1	scaffold128	537743	TT	CC	CC	INTRON	101493287	uncharacterized LOC101493287
SNP_64193_A_540495	NW_004515707.1	scaffold128	540495	TT	CC	CC	INTRON	101493287	uncharacterized LOC101493287
SNP_64194_A_540569	NW_004515707.1	scaffold128	540569	AA	GG	GG	INTRON	101493287	uncharacterized LOC101493287
SNP_64196_A_578374	NW_004515707.1	scaffold128	578374	AA	TT	TT	URR	101493928	Unknown function
SNP_64197_A_578559	NW_004515707.1	scaffold128	578559	TT	CC	CC	URR	101493928	Unknown function
SNP_64198_A_578870	NW_004515707.1	scaffold128	578870	AA	GG	GG	URR	101494249	uncharacterized LOC101494249
SNP_64199_A_578923	NW_004515707.1	scaffold128	578923	TT	CC	CC	URR	101494249	uncharacterized LOC101494249
SNP_64200_A_580854	NW_004515707.1	scaffold128	580854	GG	TT	TT	INTERGENIC		
SNP_64201_A_581010	NW_004515707.1	scaffold128	581010	CC	TT	TT	INTERGENIC		
SNP_64202_A_581023	NW_004515707.1	scaffold128	581023	GG	AA	AA	INTERGENIC		
SNP_64203_A_581024	NW_004515707.1	scaffold128	581024	AA	GG	GG	INTERGENIC		
SNP_64204_A_581026	NW_004515707.1	scaffold128	581026	AA	CC	CC	INTERGENIC		
SNP_64205_A_581225	NW_004515707.1	scaffold128	581225	GG	CC	CC	INTERGENIC		
SNP_64206_A_587743	NW_004515707.1	scaffold128	587743	TT	CC	CC	INTERGENIC		
SNP_64208_A_588068	NW_004515707.1	scaffold128	588068	AA	GG	GG	INTERGENIC		
SNP_64209_A_608030	NW_004515707.1	scaffold128	608030	AA	GG	GG	INTERGENIC		
SNP_64210_A_656089	NW_004515707.1	scaffold128	656089	GG	AA	AA	INTERGENIC		
SNP_64211_A_673625	NW_004515707.1	scaffold128	673625	TT	CC	CC	INTERGENIC		
SNP_64212_A_680693	NW_004515707.1	scaffold128	680693	GG	AA	AA	INTERGENIC		
SNP_64213_A_700939	NW_004515707.1	scaffold128	700939	AA	GG	GG	INTERGENIC		
SNP_64214_A_700954	NW_004515707.1	scaffold128	700954	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64215_A_700959	NW_004515707.1	scaffold128	700959	TT	GG	GG	INTERGENIC			
SNP_64216_A_701124	NW_004515707.1	scaffold128	701124	CC	TT	TT	INTERGENIC			
SNP_64217_A_701474	NW_004515707.1	scaffold128	701474	TT	AA	AA	INTERGENIC			
SNP_64219_A_711377	NW_004515707.1	scaffold128	711377	CC	GG	GG	INTERGENIC			
SNP_64220_A_711382	NW_004515707.1	scaffold128	711382	TT	CC	CC	INTERGENIC			
SNP_64221_A_711394	NW_004515707.1	scaffold128	711394	TT	CC	CC	INTERGENIC			
SNP_64222_A_719345	NW_004515707.1	scaffold128	719345	TT	AA	AA	INTERGENIC			
SNP_64223_A_719582	NW_004515707.1	scaffold128	719582	TT	CC	CC	INTERGENIC			
SNP_64224_A_721442	NW_004515707.1	scaffold128	721442	AA	TT	TT	INTERGENIC			
SNP_64225_A_721443	NW_004515707.1	scaffold128	721443	GG	TT	TT	INTERGENIC			
SNP_64226_A_729770	NW_004515707.1	scaffold128	729770	GG	AA	AA	INTERGENIC			
SNP_64227_A_732465	NW_004515707.1	scaffold128	732465	TT	CC	CC	INTERGENIC			
SNP_64228_A_732515	NW_004515707.1	scaffold128	732515	AA	TT	TT	INTERGENIC			
SNP_64230_A_732718	NW_004515707.1	scaffold128	732718	AA	GG	GG	INTERGENIC			
SNP_64231_A_732744	NW_004515707.1	scaffold128	732744	GG	AA	AA	INTERGENIC			
SNP_64232_A_732772	NW_004515707.1	scaffold128	732772	CC	AA	AA	INTERGENIC			
SNP_64233_A_732802	NW_004515707.1	scaffold128	732802	AA	CC	CC	INTERGENIC			
SNP_64234_A_732874	NW_004515707.1	scaffold128	732874	CC	TT	TT	INTERGENIC			
SNP_64235_A_732958	NW_004515707.1	scaffold128	732958	TT	AA	AA	INTERGENIC			
SNP_64236_A_746221	NW_004515707.1	scaffold128	746221	GG	TT	TT	INTERGENIC			
SNP_64239_A_747506	NW_004515707.1	scaffold128	747506	AA	CC	CC	INTERGENIC			
SNP_64240_A_747693	NW_004515707.1	scaffold128	747693	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64241_A_747694	NW_004515707.1	scaffold128	747694	TT	AA	AA	INTERGENIC		
SNP_64242_A_816970	NW_004515707.1	scaffold128	816970	CC	AA	AA	INTERGENIC		
SNP_64243_A_820564	NW_004515707.1	scaffold128	820564	TT	CC	CC	INTERGENIC		
SNP_64244_A_820672	NW_004515707.1	scaffold128	820672	GG	CC	CC	INTERGENIC		
SNP_64245_A_820681	NW_004515707.1	scaffold128	820681	AA	TT	TT	INTERGENIC		
SNP_64246_A_820695	NW_004515707.1	scaffold128	820695	AA	CC	CC	INTERGENIC		
SNP_64247_A_820697	NW_004515707.1	scaffold128	820697	AA	CC	CC	INTERGENIC		
SNP_64248_A_820876	NW_004515707.1	scaffold128	820876	TT	CC	CC	INTERGENIC		
SNP_64249_A_822400	NW_004515707.1	scaffold128	822400	GG	TT	TT	INTERGENIC		
SNP_64250_A_841948	NW_004515707.1	scaffold128	841948	CC	TT	TT	INTRON	101494554	Unknown function
SNP_64251_A_859729	NW_004515707.1	scaffold128	859729	GG	AA	AA	INTERGENIC		
SNP_64252_A_859731	NW_004515707.1	scaffold128	859731	GG	AA	AA	INTERGENIC		
SNP_64253_A_887556	NW_004515707.1	scaffold128	887556	GG	TT	TT	INTERGENIC		
SNP_64255_A_13021	NW_004515708.1	scaffold131	13021	TT	GG	GG	INTERGENIC		
SNP_64256_A_13026	NW_004515708.1	scaffold131	13026	AA	GG	GG	INTERGENIC		
SNP_64257_A_13291	NW_004515708.1	scaffold131	13291	TT	CC	CC	INTERGENIC		
SNP_64258_A_13373	NW_004515708.1	scaffold131	13373	AA	TT	TT	INTERGENIC		
SNP_64259_A_28677	NW_004515708.1	scaffold131	28677	AA	TT	TT	INTERGENIC		
SNP_64260_A_30537	NW_004515708.1	scaffold131	30537	TT	GG	GG	INTERGENIC		
SNP_64261_A_38181	NW_004515708.1	scaffold131	38181	CC	TT	TT	INTERGENIC		
SNP_64262_A_31656	NW_004515709.1	scaffold132	31656	CC	TT	TT	INTERGENIC		
SNP_64263_A_31658	NW_004515709.1	scaffold132	31658	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64264_A_41654	NW_004515709.1	scaffold132	41654	CC	TT	TT	INTERGENIC			
SNP_64265_A_41660	NW_004515709.1	scaffold132	41660	TT	AA	AA	INTERGENIC			
SNP_64266_A_41673	NW_004515709.1	scaffold132	41673	TT	GG	GG	INTERGENIC			
SNP_64268_A_47419	NW_004515709.1	scaffold132	47419	GG	TT	TT	INTERGENIC			
SNP_64269_A_53968	NW_004515709.1	scaffold132	53968	AA	GG	GG	INTERGENIC			
SNP_64270_A_53991	NW_004515709.1	scaffold132	53991	TT	GG	GG	INTERGENIC			
SNP_64271_A_54019	NW_004515709.1	scaffold132	54019	TT	AA	AA	INTERGENIC			
SNP_64272_A_54050	NW_004515709.1	scaffold132	54050	GG	CC	CC	INTERGENIC			
SNP_64273_A_54075	NW_004515709.1	scaffold132	54075	GG	AA	AA	INTERGENIC			
SNP_64274_A_54487	NW_004515709.1	scaffold132	54487	GG	AA	AA	INTERGENIC			
SNP_64275_A_60629	NW_004515709.1	scaffold132	60629	CC	TT	TT	INTERGENIC			
SNP_64276_A_60722	NW_004515709.1	scaffold132	60722	AA	GG	GG	INTERGENIC			
SNP_64277_A_87266	NW_004515709.1	scaffold132	87266	GG	CC	CC	INTERGENIC			
SNP_64278_A_94655	NW_004515709.1	scaffold132	94655	TT	CC	CC	INTERGENIC			
SNP_64279_A_153196	NW_004515709.1	scaffold132	153196	GG	TT	TT	INTERGENIC			
SNP_64280_A_153198	NW_004515709.1	scaffold132	153198	CC	GG	GG	INTERGENIC			
SNP_64281_A_153199	NW_004515709.1	scaffold132	153199	GG	TT	TT	INTERGENIC			
SNP_64282_A_153200	NW_004515709.1	scaffold132	153200	GG	CC	CC	INTERGENIC			
SNP_64283_A_153212	NW_004515709.1	scaffold132	153212	GG	TT	TT	INTERGENIC			
SNP_64284_A_13425	NW_004515710.1	scaffold133	13425	TT	AA	AA	INTERGENIC			
SNP_64285_A_13455	NW_004515710.1	scaffold133	13455	CC	TT	TT	INTERGENIC			
SNP_64286_A_13687	NW_004515710.1	scaffold133	13687	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64287_A_15985	NW_004515711.1	scaffold134	15985	AA	GG	GG	INTERGENIC		
SNP_64288_A_36583	NW_004515711.1	scaffold134	36583	TT	GG	GG	INTERGENIC		
SNP_64289_A_39371	NW_004515711.1	scaffold134	39371	TT	AA	AA	INTERGENIC		
SNP_64291_A_103242	NW_004515711.1	scaffold134	103242	CC	TT	TT	INTERGENIC		
SNP_64293_A_185675	NW_004515711.1	scaffold134	185675	AA	TT	TT	INTERGENIC		
SNP_64294_A_274599	NW_004515711.1	scaffold134	274599	CC	TT	TT	INTRON	101498358	dehydration-responsive element-binding protein 2A-like
SNP_64296_A_323246	NW_004515711.1	scaffold134	323246	TT	CC	CC	SYNONYMOUS_CODING	101504030	Unknown function
SNP_64297_A_323258	NW_004515711.1	scaffold134	323258	AA	GG	GG	SYNONYMOUS_CODING	101504030	Unknown function
SNP_64298_A_323261	NW_004515711.1	scaffold134	323261	TT	CC	CC	NON_SYNONYMOUS_CODING	101504030	Unknown function
SNP_64299_A_334340	NW_004515711.1	scaffold134	334340	AA	GG	GG	INTERGENIC		
SNP_64300_A_334396	NW_004515711.1	scaffold134	334396	TT	GG	GG	INTERGENIC		
SNP_64302_A_334569	NW_004515711.1	scaffold134	334569	GG	AA	AA	INTERGENIC		
SNP_64303_A_334694	NW_004515711.1	scaffold134	334694	AA	TT	TT	INTERGENIC		
SNP_64304_A_336531	NW_004515711.1	scaffold134	336531	TT	CC	CC	INTERGENIC		
SNP_64305_A_336532	NW_004515711.1	scaffold134	336532	TT	CC	CC	INTERGENIC		
SNP_64306_A_336534	NW_004515711.1	scaffold134	336534	TT	CC	CC	INTERGENIC		
SNP_64307_A_336564	NW_004515711.1	scaffold134	336564	TT	CC	CC	INTERGENIC		
SNP_64308_A_336664	NW_004515711.1	scaffold134	336664	TT	CC	CC	INTERGENIC		
SNP_64309_A_336666	NW_004515711.1	scaffold134	336666	AA	CC	CC	INTERGENIC		
SNP_64310_A_336670	NW_004515711.1	scaffold134	336670	TT	AA	AA	INTERGENIC		
SNP_64311_A_336712	NW_004515711.1	scaffold134	336712	TT	AA	AA	INTERGENIC		
SNP_64312_A_336788	NW_004515711.1	scaffold134	336788	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64313_A_337151	NW_004515711.1	scaffold134	337151	TT	CC	CC	INTERGENIC		
SNP_64314_A_345925	NW_004515711.1	scaffold134	345925	CC	TT	TT	URR	101499959	G-type lectin S-receptor-like serine/threonine-protein kinase At4g03230
SNP_64316_A_364832	NW_004515711.1	scaffold134	364832	GG	AA	AA	URR	101504342	uncharacterized LOC101504342
SNP_64317_A_364892	NW_004515711.1	scaffold134	364892	TT	CC	CC	URR	101504342	uncharacterized LOC101504342
SNP_64318_A_364915	NW_004515711.1	scaffold134	364915	AA	CC	CC	URR	101504342	uncharacterized LOC101504342
SNP_64319_A_365205	NW_004515711.1	scaffold134	365205	AA	TT	TT	URR	101504342	uncharacterized LOC101504342
SNP_64320_A_365236	NW_004515711.1	scaffold134	365236	GG	TT	TT	URR	101504342	uncharacterized LOC101504342
SNP_64321_A_365237	NW_004515711.1	scaffold134	365237	AA	GG	GG	URR	101504342	uncharacterized LOC101504342
SNP_64322_A_451490	NW_004515711.1	scaffold134	451490	TT	GG	GG	INTERGENIC		
SNP_64323_A_451491	NW_004515711.1	scaffold134	451491	AA	TT	TT	INTERGENIC		
SNP_64324_A_454511	NW_004515711.1	scaffold134	454511	TT	CC	CC	INTERGENIC		
SNP_64325_A_454638	NW_004515711.1	scaffold134	454638	CC	TT	TT	INTERGENIC		
SNP_64326_A_463417	NW_004515711.1	scaffold134	463417	GG	TT	TT	INTERGENIC		
SNP_64327_A_472556	NW_004515711.1	scaffold134	472556	AA	CC	CC	INTERGENIC		
SNP_64328_A_564026	NW_004515711.1	scaffold134	564026	AA	TT	TT	URR	101504676	Unknown function
SNP_64329_A_564079	NW_004515711.1	scaffold134	564079	CC	TT	TT	INTERGENIC		
SNP_64330_A_564146	NW_004515711.1	scaffold134	564146	AA	GG	GG	INTERGENIC		
SNP_64331_A_260	NW_004515712.1	scaffold135	260	TT	CC	CC	INTERGENIC		
SNP_64332_A_3707	NW_004515712.1	scaffold135	3707	CC	AA	AA	INTERGENIC		
SNP_64333_A_53295	NW_004515712.1	scaffold135	53295	GG	CC	CC	INTERGENIC		
SNP_64334_A_56896	NW_004515712.1	scaffold135	56896	AA	GG	GG	INTERGENIC		
SNP_64335_A_57115	NW_004515712.1	scaffold135	57115	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64336_A_57175	NW_004515712.1	scaffold135	57175	CC	TT	TT	INTERGENIC			
SNP_64337_A_57179	NW_004515712.1	scaffold135	57179	TT	AA	AA	INTERGENIC			
SNP_64338_A_57206	NW_004515712.1	scaffold135	57206	TT	AA	AA	INTERGENIC			
SNP_64339_A_57408	NW_004515712.1	scaffold135	57408	CC	AA	AA	INTERGENIC			
SNP_64340_A_57410	NW_004515712.1	scaffold135	57410	TT	CC	CC	INTERGENIC			
SNP_64341_A_57414	NW_004515712.1	scaffold135	57414	TT	AA	AA	INTERGENIC			
SNP_64342_A_57550	NW_004515712.1	scaffold135	57550	CC	TT	TT	INTERGENIC			
SNP_64343_A_57636	NW_004515712.1	scaffold135	57636	TT	CC	CC	INTERGENIC			
SNP_64344_A_73331	NW_004515712.1	scaffold135	73331	AA	GG	GG	INTERGENIC			
SNP_64345_A_73348	NW_004515712.1	scaffold135	73348	AA	GG	GG	INTERGENIC			
SNP_64346_A_73775	NW_004515712.1	scaffold135	73775	CC	GG	GG	INTERGENIC			
SNP_64347_A_95342	NW_004515712.1	scaffold135	95342	TT	CC	CC	INTERGENIC			
SNP_64348_A_95962	NW_004515712.1	scaffold135	95962	CC	AA	AA	INTERGENIC			
SNP_64349_A_96408	NW_004515712.1	scaffold135	96408	AA	TT	TT	INTERGENIC			
SNP_64350_A_96427	NW_004515712.1	scaffold135	96427	AA	GG	GG	INTERGENIC			
SNP_64351_A_96464	NW_004515712.1	scaffold135	96464	CC	AA	AA	INTERGENIC			
SNP_64352_A_111205	NW_004515712.1	scaffold135	111205	TT	CC	CC	INTERGENIC			
SNP_64353_A_111248	NW_004515712.1	scaffold135	111248	TT	CC	CC	INTERGENIC			
SNP_64354_A_111256	NW_004515712.1	scaffold135	111256	AA	CC	CC	INTERGENIC			
SNP_64355_A_111275	NW_004515712.1	scaffold135	111275	TT	CC	CC	INTERGENIC			
SNP_64356_A_111609	NW_004515712.1	scaffold135	111609	TT	CC	CC	INTERGENIC			
SNP_64357_A_111629	NW_004515712.1	scaffold135	111629	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64359_A_115487	NW_004515712.1	scaffold135	115487	TT	CC	CC	INTERGENIC			
SNP_64360_A_115603	NW_004515712.1	scaffold135	115603	TT	CC	CC	INTERGENIC			
SNP_64361_A_115623	NW_004515712.1	scaffold135	115623	TT	CC	CC	INTERGENIC			
SNP_64362_A_115625	NW_004515712.1	scaffold135	115625	AA	TT	TT	INTERGENIC			
SNP_64363_A_115629	NW_004515712.1	scaffold135	115629	GG	AA	AA	INTERGENIC			
SNP_64364_A_115717	NW_004515712.1	scaffold135	115717	CC	TT	TT	INTERGENIC			
SNP_64365_A_115730	NW_004515712.1	scaffold135	115730	TT	CC	CC	INTERGENIC			
SNP_64366_A_115854	NW_004515712.1	scaffold135	115854	AA	TT	TT	INTERGENIC			
SNP_64367_A_115891	NW_004515712.1	scaffold135	115891	CC	TT	TT	INTERGENIC			
SNP_64368_A_115911	NW_004515712.1	scaffold135	115911	TT	CC	CC	INTERGENIC			
SNP_64369_A_115924	NW_004515712.1	scaffold135	115924	AA	GG	GG	INTERGENIC			
SNP_64370_A_115985	NW_004515712.1	scaffold135	115985	CC	TT	TT	INTERGENIC			
SNP_64373_A_3422	NW_004515715.1	scaffold140	3422	GG	AA	AA	INTERGENIC			
SNP_64374_A_5344	NW_004515715.1	scaffold140	5344	TT	AA	AA	INTERGENIC			
SNP_64375_A_5718	NW_004515715.1	scaffold140	5718	CC	AA	AA	INTERGENIC			
SNP_64377_A_7734	NW_004515715.1	scaffold140	7734	TT	GG	GG	INTERGENIC			
SNP_64378_A_15962	NW_004515715.1	scaffold140	15962	AA	TT	TT	INTERGENIC			
SNP_64379_A_16350	NW_004515715.1	scaffold140	16350	TT	AA	AA	INTERGENIC			
SNP_64380_A_24716	NW_004515715.1	scaffold140	24716	CC	TT	TT	INTERGENIC			
SNP_64381_A_25687	NW_004515715.1	scaffold140	25687	CC	TT	TT	INTERGENIC			
SNP_64382_A_25697	NW_004515715.1	scaffold140	25697	GG	CC	CC	INTERGENIC			
SNP_64383_A_25719	NW_004515715.1	scaffold140	25719	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64384_A_25721	NW_004515715.1	scaffold140	25721	AA	GG	GG	INTERGENIC			
SNP_64386_A_25822	NW_004515715.1	scaffold140	25822	GG	AA	AA	INTERGENIC			
SNP_64387_A_25823	NW_004515715.1	scaffold140	25823	TT	GG	GG	INTERGENIC			
SNP_64388_A_26443	NW_004515715.1	scaffold140	26443	AA	GG	GG	INTERGENIC			
SNP_64389_A_26446	NW_004515715.1	scaffold140	26446	TT	CC	CC	INTERGENIC			
SNP_64390_A_26484	NW_004515715.1	scaffold140	26484	TT	CC	CC	INTERGENIC			
SNP_64391_A_26496	NW_004515715.1	scaffold140	26496	AA	GG	GG	INTERGENIC			
SNP_64392_A_27358	NW_004515715.1	scaffold140	27358	TT	GG	GG	INTERGENIC			
SNP_64393_A_37135	NW_004515715.1	scaffold140	37135	TT	AA	AA	INTERGENIC			
SNP_64394_A_37256	NW_004515715.1	scaffold140	37256	AA	TT	TT	INTERGENIC			
SNP_64395_A_37293	NW_004515715.1	scaffold140	37293	AA	GG	GG	INTERGENIC			
SNP_64396_A_37336	NW_004515715.1	scaffold140	37336	AA	GG	GG	INTERGENIC			
SNP_64397_A_52847	NW_004515715.1	scaffold140	52847	CC	TT	TT	INTERGENIC			
SNP_64398_A_277	NW_004515716.1	scaffold141	277	TT	AA	AA	INTERGENIC			
SNP_64399_A_415	NW_004515716.1	scaffold141	415	TT	AA	AA	INTERGENIC			
SNP_64400_A_11725	NW_004515716.1	scaffold141	11725	GG	AA	AA	URR	101507788	Unknown function	
SNP_64401_A_12207	NW_004515716.1	scaffold141	12207	TT	CC	CC	URR	101507788	Unknown function	
SNP_64402_A_12264	NW_004515716.1	scaffold141	12264	CC	TT	TT	URR	101507788	Unknown function	
SNP_64403_A_12299	NW_004515716.1	scaffold141	12299	AA	CC	CC	URR	101507788	Unknown function	
SNP_64404_A_14090	NW_004515716.1	scaffold141	14090	CC	TT	TT	INTERGENIC			
SNP_64405_A_14442	NW_004515716.1	scaffold141	14442	TT	CC	CC	INTERGENIC			
SNP_64406_A_16225	NW_004515716.1	scaffold141	16225	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64407_A_16489	NW_004515716.1	scaffold141	16489	CC	AA	AA	INTERGENIC			
SNP_64408_A_16866	NW_004515716.1	scaffold141	16866	CC	TT	TT	INTERGENIC			
SNP_64409_A_16883	NW_004515716.1	scaffold141	16883	GG	AA	AA	INTERGENIC			
SNP_64410_A_16884	NW_004515716.1	scaffold141	16884	AA	GG	GG	INTERGENIC			
SNP_64411_A_16888	NW_004515716.1	scaffold141	16888	GG	TT	TT	INTERGENIC			
SNP_64412_A_16991	NW_004515716.1	scaffold141	16991	AA	GG	GG	INTERGENIC			
SNP_64413_A_17725	NW_004515716.1	scaffold141	17725	AA	GG	GG	INTERGENIC			
SNP_64414_A_18079	NW_004515716.1	scaffold141	18079	CC	TT	TT	INTERGENIC			
SNP_64415_A_26290	NW_004515716.1	scaffold141	26290	TT	AA	AA	INTERGENIC			
SNP_64416_A_48432	NW_004515716.1	scaffold141	48432	TT	GG	GG	INTERGENIC			
SNP_64417_A_55914	NW_004515716.1	scaffold141	55914	TT	CC	CC	INTERGENIC			
SNP_64418_A_56389	NW_004515716.1	scaffold141	56389	AA	GG	GG	INTERGENIC			
SNP_64419_A_56419	NW_004515716.1	scaffold141	56419	AA	GG	GG	INTERGENIC			
SNP_64420_A_56426	NW_004515716.1	scaffold141	56426	CC	AA	AA	INTERGENIC			
SNP_64421_A_67171	NW_004515716.1	scaffold141	67171	TT	CC	CC	INTERGENIC			
SNP_64422_A_67477	NW_004515716.1	scaffold141	67477	GG	AA	AA	INTERGENIC			
SNP_64423_A_68708	NW_004515716.1	scaffold141	68708	CC	TT	TT	INTERGENIC			
SNP_64424_A_68875	NW_004515716.1	scaffold141	68875	GG	TT	TT	INTERGENIC			
SNP_64425_A_68899	NW_004515716.1	scaffold141	68899	CC	TT	TT	INTERGENIC			
SNP_64426_A_69215	NW_004515716.1	scaffold141	69215	TT	GG	GG	INTERGENIC			
SNP_64427_A_77168	NW_004515716.1	scaffold141	77168	TT	AA	AA	INTERGENIC			
SNP_64428_A_79575	NW_004515716.1	scaffold141	79575	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64429_A_81552	NW_004515716.1	scaffold141	81552	CC	TT	TT	INTERGENIC			
SNP_64430_A_101610	NW_004515716.1	scaffold141	101610	AA	TT	TT	INTERGENIC			
SNP_64431_A_102239	NW_004515716.1	scaffold141	102239	CC	GG	GG	INTERGENIC			
SNP_64432_A_102276	NW_004515716.1	scaffold141	102276	GG	CC	CC	INTERGENIC			
SNP_64433_A_106906	NW_004515716.1	scaffold141	106906	AA	GG	GG	INTERGENIC			
SNP_64434_A_106938	NW_004515716.1	scaffold141	106938	TT	CC	CC	INTERGENIC			
SNP_64435_A_106944	NW_004515716.1	scaffold141	106944	GG	TT	TT	INTERGENIC			
SNP_64436_A_112482	NW_004515716.1	scaffold141	112482	AA	TT	TT	INTERGENIC			
SNP_64437_A_114437	NW_004515716.1	scaffold141	114437	CC	GG	GG	INTERGENIC			
SNP_64438_A_128446	NW_004515716.1	scaffold141	128446	TT	GG	GG	URR	101507261	Unknown function	
SNP_64439_A_132750	NW_004515716.1	scaffold141	132750	AA	GG	GG	INTERGENIC			
SNP_64440_A_132781	NW_004515716.1	scaffold141	132781	TT	GG	GG	INTERGENIC			
SNP_64441_A_133049	NW_004515716.1	scaffold141	133049	CC	TT	TT	INTERGENIC			
SNP_64442_A_133150	NW_004515716.1	scaffold141	133150	TT	GG	GG	INTERGENIC			
SNP_64443_A_133166	NW_004515716.1	scaffold141	133166	CC	TT	TT	INTERGENIC			
SNP_64444_A_133169	NW_004515716.1	scaffold141	133169	TT	GG	GG	INTERGENIC			
SNP_64445_A_133233	NW_004515716.1	scaffold141	133233	GG	AA	AA	INTERGENIC			
SNP_64446_A_133237	NW_004515716.1	scaffold141	133237	AA	CC	CC	INTERGENIC			
SNP_64447_A_133242	NW_004515716.1	scaffold141	133242	CC	TT	TT	INTERGENIC			
SNP_64448_A_138695	NW_004515716.1	scaffold141	138695	GG	TT	TT	INTERGENIC			
SNP_64449_A_139951	NW_004515716.1	scaffold141	139951	TT	CC	CC	INTERGENIC			
SNP_64450_A_140185	NW_004515716.1	scaffold141	140185	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64451_A_140554	NW_004515716.1	scaffold141	140554	AA	CC	CC	INTERGENIC			
SNP_64452_A_140750	NW_004515716.1	scaffold141	140750	TT	CC	CC	INTERGENIC			
SNP_64453_A_146633	NW_004515716.1	scaffold141	146633	AA	TT	TT	INTERGENIC			
SNP_64454_A_146784	NW_004515716.1	scaffold141	146784	AA	GG	GG	INTERGENIC			
SNP_64455_A_146944	NW_004515716.1	scaffold141	146944	TT	GG	GG	INTERGENIC			
SNP_64456_A_147003	NW_004515716.1	scaffold141	147003	AA	GG	GG	INTERGENIC			
SNP_64457_A_147487	NW_004515716.1	scaffold141	147487	AA	CC	CC	INTERGENIC			
SNP_64458_A_147554	NW_004515716.1	scaffold141	147554	GG	CC	CC	INTERGENIC			
SNP_64459_A_148113	NW_004515716.1	scaffold141	148113	CC	GG	GG	INTERGENIC			
SNP_64460_A_166121	NW_004515716.1	scaffold141	166121	TT	GG	GG	INTERGENIC			
SNP_64461_A_166510	NW_004515716.1	scaffold141	166510	GG	AA	AA	INTERGENIC			
SNP_64462_A_166681	NW_004515716.1	scaffold141	166681	TT	CC	CC	INTERGENIC			
SNP_64463_A_172027	NW_004515716.1	scaffold141	172027	AA	TT	TT	URR	101508111	Unknown function	
SNP_64464_A_172136	NW_004515716.1	scaffold141	172136	AA	GG	GG	URR	101508111	Unknown function	
SNP_64465_A_172182	NW_004515716.1	scaffold141	172182	CC	GG	GG	URR	101508111	Unknown function	
SNP_64466_A_172226	NW_004515716.1	scaffold141	172226	AA	GG	GG	URR	101508111	Unknown function	
SNP_64467_A_4689	NW_004515717.1	scaffold142	4689	GG	TT	TT	INTERGENIC			
SNP_64468_A_5347	NW_004515717.1	scaffold142	5347	AA	GG	GG	INTERGENIC			
SNP_64469_A_8805	NW_004515718.1	scaffold143	8805	TT	AA	AA	INTERGENIC			
SNP_64470_A_14103	NW_004515718.1	scaffold143	14103	TT	CC	CC	INTERGENIC			
SNP_64471_A_15413	NW_004515718.1	scaffold143	15413	AA	GG	GG	INTERGENIC			
SNP_64472_A_25499	NW_004515718.1	scaffold143	25499	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64473_A_38411	NW_004515718.1	scaffold143	38411	AA	CC	CC	INTERGENIC			
SNP_64474_A_67417	NW_004515718.1	scaffold143	67417	TT	CC	CC	INTERGENIC			
SNP_64475_A_67418	NW_004515718.1	scaffold143	67418	TT	CC	CC	INTERGENIC			
SNP_64476_A_67472	NW_004515718.1	scaffold143	67472	AA	GG	GG	INTERGENIC			
SNP_64478_A_67536	NW_004515718.1	scaffold143	67536	AA	TT	TT	INTERGENIC			
SNP_64479_A_67543	NW_004515718.1	scaffold143	67543	CC	TT	TT	INTERGENIC			
SNP_64480_A_67578	NW_004515718.1	scaffold143	67578	CC	TT	TT	INTERGENIC			
SNP_64481_A_67679	NW_004515718.1	scaffold143	67679	AA	TT	TT	INTERGENIC			
SNP_64482_A_67698	NW_004515718.1	scaffold143	67698	AA	TT	TT	INTERGENIC			
SNP_64483_A_67889	NW_004515718.1	scaffold143	67889	AA	CC	CC	INTERGENIC			
SNP_64484_A_67988	NW_004515718.1	scaffold143	67988	TT	GG	GG	INTERGENIC			
SNP_64485_A_68042	NW_004515718.1	scaffold143	68042	CC	TT	TT	INTERGENIC			
SNP_64487_A_68128	NW_004515718.1	scaffold143	68128	AA	GG	GG	INTERGENIC			
SNP_64488_A_70579	NW_004515718.1	scaffold143	70579	AA	GG	GG	INTERGENIC			
SNP_64489_A_90437	NW_004515718.1	scaffold143	90437	AA	GG	GG	INTERGENIC			
SNP_64490_A_124818	NW_004515718.1	scaffold143	124818	GG	TT	TT	INTERGENIC			
SNP_64491_A_124893	NW_004515718.1	scaffold143	124893	AA	TT	TT	INTERGENIC			
SNP_64492_A_152887	NW_004515718.1	scaffold143	152887	TT	CC	CC	INTERGENIC			
SNP_64493_A_152950	NW_004515718.1	scaffold143	152950	AA	CC	CC	INTERGENIC			
SNP_64494_A_152952	NW_004515718.1	scaffold143	152952	CC	TT	TT	INTERGENIC			
SNP_64495_A_234047	NW_004515718.1	scaffold143	234047	CC	TT	TT	INTERGENIC			
SNP_64496_A_786	NW_004515719.1	scaffold144	786	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64497_A_852	NW_004515719.1	scaffold144	852	TT	AA	AA	INTERGENIC			
SNP_64498_A_1095	NW_004515719.1	scaffold144	1095	AA	GG	GG	INTERGENIC			
SNP_64499_A_1099	NW_004515719.1	scaffold144	1099	AA	TT	TT	INTERGENIC			
SNP_64500_A_1107	NW_004515719.1	scaffold144	1107	AA	TT	TT	INTERGENIC			
SNP_64501_A_1117	NW_004515719.1	scaffold144	1117	GG	CC	CC	INTERGENIC			
SNP_64502_A_1560	NW_004515719.1	scaffold144	1560	AA	CC	CC	INTERGENIC			
SNP_64503_A_1790	NW_004515719.1	scaffold144	1790	AA	CC	CC	INTERGENIC			
SNP_64504_A_2221	NW_004515719.1	scaffold144	2221	TT	GG	GG	INTERGENIC			
SNP_64505_A_2627	NW_004515719.1	scaffold144	2627	GG	AA	AA	INTERGENIC			
SNP_64506_A_2679	NW_004515719.1	scaffold144	2679	AA	GG	GG	INTERGENIC			
SNP_64507_A_3864	NW_004515719.1	scaffold144	3864	GG	CC	CC	INTERGENIC			
SNP_64508_A_3882	NW_004515719.1	scaffold144	3882	TT	AA	AA	INTERGENIC			
SNP_64509_A_4788	NW_004515719.1	scaffold144	4788	GG	AA	AA	INTERGENIC			
SNP_64510_A_4819	NW_004515719.1	scaffold144	4819	CC	AA	AA	INTERGENIC			
SNP_64511_A_6513	NW_004515719.1	scaffold144	6513	CC	GG	GG	INTERGENIC			
SNP_64512_A_6517	NW_004515719.1	scaffold144	6517	TT	GG	GG	INTERGENIC			
SNP_64513_A_6530	NW_004515719.1	scaffold144	6530	GG	CC	CC	INTERGENIC			
SNP_64514_A_7710	NW_004515719.1	scaffold144	7710	GG	AA	AA	INTERGENIC			
SNP_64515_A_7712	NW_004515719.1	scaffold144	7712	CC	GG	GG	INTERGENIC			
SNP_64516_A_7737	NW_004515719.1	scaffold144	7737	GG	AA	AA	INTERGENIC			
SNP_64517_A_11333	NW_004515719.1	scaffold144	11333	CC	AA	AA	INTERGENIC			
SNP_64518_A_17058	NW_004515719.1	scaffold144	17058	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64519_A_17173	NW_004515719.1	scaffold144	17173	TT	AA	AA	INTERGENIC		
SNP_64520_A_17182	NW_004515719.1	scaffold144	17182	AA	GG	GG	INTERGENIC		
SNP_64521_A_17198	NW_004515719.1	scaffold144	17198	TT	CC	CC	INTERGENIC		
SNP_64522_A_17201	NW_004515719.1	scaffold144	17201	CC	TT	TT	INTERGENIC		
SNP_64523_A_17226	NW_004515719.1	scaffold144	17226	AA	GG	GG	INTERGENIC		
SNP_64524_A_17377	NW_004515719.1	scaffold144	17377	GG	AA	AA	INTERGENIC		
SNP_64525_A_17670	NW_004515719.1	scaffold144	17670	TT	GG	GG	INTERGENIC		
SNP_64526_A_17806	NW_004515719.1	scaffold144	17806	AA	CC	CC	INTERGENIC		
SNP_64527_A_9486	NW_004515720.1	scaffold146	9486	GG	TT	TT	INTERGENIC		
SNP_64529_A_9656	NW_004515720.1	scaffold146	9656	AA	CC	CC	DRR	101510343	uncharacterized LOC101510343
SNP_64530_A_9666	NW_004515720.1	scaffold146	9666	GG	CC	CC	DRR	101510343	uncharacterized LOC101510343
SNP_64531_A_9671	NW_004515720.1	scaffold146	9671	TT	AA	AA	DRR	101510343	uncharacterized LOC101510343
SNP_64532_A_9847	NW_004515720.1	scaffold146	9847	AA	GG	GG	DRR	101510343	uncharacterized LOC101510343
SNP_64533_A_12181	NW_004515720.1	scaffold146	12181	TT	CC	CC	URR	101510343	uncharacterized LOC101510343
SNP_64534_A_12186	NW_004515720.1	scaffold146	12186	AA	GG	GG	URR	101510343	uncharacterized LOC101510343
SNP_64535_A_12221	NW_004515720.1	scaffold146	12221	GG	TT	TT	URR	101510343	uncharacterized LOC101510343
SNP_64536_A_12226	NW_004515720.1	scaffold146	12226	AA	GG	GG	URR	101510343	uncharacterized LOC101510343
SNP_64537_A_12233	NW_004515720.1	scaffold146	12233	TT	CC	CC	URR	101510343	uncharacterized LOC101510343
SNP_64538_A_12258	NW_004515720.1	scaffold146	12258	CC	TT	TT	URR	101510343	uncharacterized LOC101510343
SNP_64539_A_12284	NW_004515720.1	scaffold146	12284	CC	GG	GG	URR	101510343	uncharacterized LOC101510343
SNP_64540_A_12316	NW_004515720.1	scaffold146	12316	TT	CC	CC	URR	101510343	uncharacterized LOC101510343
SNP_64541_A_12384	NW_004515720.1	scaffold146	12384	TT	GG	GG	URR	101510343	uncharacterized LOC101510343

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64542_A_28125	NW_004515720.1	scaffold146	28125	AA	TT	TT	INTERGENIC			
SNP_64543_A_43100	NW_004515720.1	scaffold146	43100	CC	TT	TT	INTERGENIC			
SNP_64544_A_43142	NW_004515720.1	scaffold146	43142	AA	GG	GG	INTERGENIC			
SNP_64545_A_47739	NW_004515720.1	scaffold146	47739	AA	GG	GG	INTERGENIC			
SNP_64546_A_70100	NW_004515720.1	scaffold146	70100	AA	GG	GG	INTERGENIC			
SNP_64547_A_70113	NW_004515720.1	scaffold146	70113	AA	GG	GG	INTERGENIC			
SNP_64548_A_70234	NW_004515720.1	scaffold146	70234	TT	CC	CC	INTERGENIC			
SNP_64549_A_70235	NW_004515720.1	scaffold146	70235	AA	TT	TT	INTERGENIC			
SNP_64550_A_70309	NW_004515720.1	scaffold146	70309	AA	CC	CC	INTERGENIC			
SNP_64551_A_70514	NW_004515720.1	scaffold146	70514	AA	GG	GG	INTERGENIC			
SNP_64552_A_70875	NW_004515720.1	scaffold146	70875	AA	GG	GG	INTERGENIC			
SNP_64553_A_70881	NW_004515720.1	scaffold146	70881	GG	AA	AA	INTERGENIC			
SNP_64554_A_70890	NW_004515720.1	scaffold146	70890	AA	GG	GG	INTERGENIC			
SNP_64556_A_71720	NW_004515720.1	scaffold146	71720	AA	TT	TT	INTERGENIC			
SNP_64557_A_82138	NW_004515720.1	scaffold146	82138	AA	GG	GG	INTERGENIC			
SNP_64558_A_82691	NW_004515720.1	scaffold146	82691	GG	CC	CC	INTERGENIC			
SNP_64559_A_83317	NW_004515720.1	scaffold146	83317	GG	AA	AA	INTERGENIC			
SNP_64560_A_83318	NW_004515720.1	scaffold146	83318	AA	TT	TT	INTERGENIC			
SNP_64561_A_83340	NW_004515720.1	scaffold146	83340	GG	TT	TT	INTERGENIC			
SNP_64562_A_83351	NW_004515720.1	scaffold146	83351	AA	TT	TT	INTERGENIC			
SNP_64563_A_83378	NW_004515720.1	scaffold146	83378	CC	TT	TT	INTERGENIC			
SNP_64564_A_83380	NW_004515720.1	scaffold146	83380	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64565_A_83385	NW_004515720.1	scaffold146	83385	AA	GG	GG	INTERGENIC			
SNP_64566_A_83400	NW_004515720.1	scaffold146	83400	CC	TT	TT	INTERGENIC			
SNP_64567_A_83430	NW_004515720.1	scaffold146	83430	AA	GG	GG	INTERGENIC			
SNP_64568_A_83447	NW_004515720.1	scaffold146	83447	TT	AA	AA	INTERGENIC			
SNP_64569_A_83460	NW_004515720.1	scaffold146	83460	TT	GG	GG	INTERGENIC			
SNP_64570_A_83527	NW_004515720.1	scaffold146	83527	GG	CC	CC	INTERGENIC			
SNP_64571_A_83536	NW_004515720.1	scaffold146	83536	AA	CC	CC	INTERGENIC			
SNP_64572_A_83708	NW_004515720.1	scaffold146	83708	CC	AA	AA	INTERGENIC			
SNP_64573_A_83760	NW_004515720.1	scaffold146	83760	AA	TT	TT	INTERGENIC			
SNP_64574_A_83770	NW_004515720.1	scaffold146	83770	TT	AA	AA	INTERGENIC			
SNP_64575_A_84306	NW_004515720.1	scaffold146	84306	TT	AA	AA	INTERGENIC			
SNP_64576_A_86121	NW_004515720.1	scaffold146	86121	CC	GG	GG	INTERGENIC			
SNP_64578_A_638	NW_004515722.1	scaffold151	638	TT	AA	AA	INTERGENIC			
SNP_64580_A_860	NW_004515722.1	scaffold151	860	TT	AA	AA	INTERGENIC			
SNP_64581_A_1159	NW_004515722.1	scaffold151	1159	AA	TT	TT	INTERGENIC			
SNP_64582_A_1175	NW_004515722.1	scaffold151	1175	AA	GG	GG	INTERGENIC			
SNP_64584_A_2160	NW_004515722.1	scaffold151	2160	CC	AA	AA	INTERGENIC			
SNP_64586_A_4586	NW_004515722.1	scaffold151	4586	GG	TT	TT	INTERGENIC			
SNP_64587_A_4757	NW_004515722.1	scaffold151	4757	TT	CC	CC	INTERGENIC			
SNP_64589_A_5042	NW_004515722.1	scaffold151	5042	CC	TT	TT	INTERGENIC			
SNP_64590_A_5423	NW_004515722.1	scaffold151	5423	AA	GG	GG	INTERGENIC			
SNP_64592_A_6336	NW_004515722.1	scaffold151	6336	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64593_A_6472	NW_004515722.1	scaffold151	6472	AA	TT	TT	INTERGENIC			
SNP_64594_A_6801	NW_004515722.1	scaffold151	6801	AA	GG	GG	INTERGENIC			
SNP_64595_A_6898	NW_004515722.1	scaffold151	6898	AA	GG	GG	INTERGENIC			
SNP_64596_A_7096	NW_004515722.1	scaffold151	7096	TT	GG	GG	INTERGENIC			
SNP_64597_A_7122	NW_004515722.1	scaffold151	7122	CC	TT	TT	INTERGENIC			
SNP_64598_A_7126	NW_004515722.1	scaffold151	7126	CC	TT	TT	INTERGENIC			
SNP_64599_A_7153	NW_004515722.1	scaffold151	7153	TT	CC	CC	INTERGENIC			
SNP_64600_A_7176	NW_004515722.1	scaffold151	7176	GG	AA	AA	INTERGENIC			
SNP_64601_A_7265	NW_004515722.1	scaffold151	7265	AA	CC	CC	INTERGENIC			
SNP_64602_A_7464	NW_004515722.1	scaffold151	7464	AA	GG	GG	INTERGENIC			
SNP_64603_A_7656	NW_004515722.1	scaffold151	7656	AA	GG	GG	INTERGENIC			
SNP_64606_A_9572	NW_004515722.1	scaffold151	9572	CC	TT	TT	INTERGENIC			
SNP_64607_A_9664	NW_004515722.1	scaffold151	9664	TT	CC	CC	INTERGENIC			
SNP_64608_A_10458	NW_004515722.1	scaffold151	10458	CC	TT	TT	INTERGENIC			
SNP_64609_A_11038	NW_004515722.1	scaffold151	11038	TT	CC	CC	INTERGENIC			
SNP_64610_A_11041	NW_004515722.1	scaffold151	11041	TT	CC	CC	INTERGENIC			
SNP_64611_A_11072	NW_004515722.1	scaffold151	11072	AA	GG	GG	INTERGENIC			
SNP_64612_A_11237	NW_004515722.1	scaffold151	11237	AA	GG	GG	INTERGENIC			
SNP_64613_A_17511	NW_004515722.1	scaffold151	17511	TT	CC	CC	INTERGENIC			
SNP_64614_A_18261	NW_004515722.1	scaffold151	18261	CC	TT	TT	INTERGENIC			
SNP_64615_A_18429	NW_004515722.1	scaffold151	18429	GG	AA	AA	INTERGENIC			
SNP_64616_A_18638	NW_004515722.1	scaffold151	18638	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64617_A_18789	NW_004515722.1	scaffold151	18789	GG	AA	AA	INTERGENIC			
SNP_64618_A_18874	NW_004515722.1	scaffold151	18874	AA	TT	TT	INTERGENIC			
SNP_64619_A_19030	NW_004515722.1	scaffold151	19030	GG	AA	AA	INTERGENIC			
SNP_64620_A_19351	NW_004515722.1	scaffold151	19351	TT	AA	AA	INTERGENIC			
SNP_64621_A_19352	NW_004515722.1	scaffold151	19352	CC	TT	TT	INTERGENIC			
SNP_64622_A_19402	NW_004515722.1	scaffold151	19402	GG	AA	AA	INTERGENIC			
SNP_64623_A_19528	NW_004515722.1	scaffold151	19528	AA	GG	GG	INTERGENIC			
SNP_64624_A_25189	NW_004515722.1	scaffold151	25189	CC	TT	TT	INTERGENIC			
SNP_64625_A_25405	NW_004515722.1	scaffold151	25405	AA	TT	TT	INTERGENIC			
SNP_64626_A_25917	NW_004515722.1	scaffold151	25917	CC	GG	GG	INTERGENIC			
SNP_64627_A_26582	NW_004515722.1	scaffold151	26582	GG	TT	TT	INTERGENIC			
SNP_64628_A_27009	NW_004515722.1	scaffold151	27009	GG	CC	CC	INTERGENIC			
SNP_64629_A_27428	NW_004515722.1	scaffold151	27428	AA	TT	TT	INTERGENIC			
SNP_64630_A_27429	NW_004515722.1	scaffold151	27429	TT	AA	AA	INTERGENIC			
SNP_64631_A_27596	NW_004515722.1	scaffold151	27596	GG	AA	AA	INTERGENIC			
SNP_64632_A_27905	NW_004515722.1	scaffold151	27905	CC	TT	TT	INTERGENIC			
SNP_64633_A_27928	NW_004515722.1	scaffold151	27928	AA	GG	GG	INTERGENIC			
SNP_64634_A_28234	NW_004515722.1	scaffold151	28234	CC	TT	TT	INTERGENIC			
SNP_64635_A_28391	NW_004515722.1	scaffold151	28391	CC	TT	TT	INTERGENIC			
SNP_64636_A_28547	NW_004515722.1	scaffold151	28547	GG	AA	AA	INTERGENIC			
SNP_64637_A_28613	NW_004515722.1	scaffold151	28613	CC	AA	AA	INTERGENIC			
SNP_64638_A_29369	NW_004515722.1	scaffold151	29369	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64639_A_29479	NW_004515722.1	scaffold151	29479	GG	AA	AA	INTERGENIC			
SNP_64640_A_35733	NW_004515722.1	scaffold151	35733	CC	GG	GG	INTERGENIC			
SNP_64641_A_35740	NW_004515722.1	scaffold151	35740	AA	GG	GG	INTERGENIC			
SNP_64642_A_35741	NW_004515722.1	scaffold151	35741	CC	TT	TT	INTERGENIC			
SNP_64643_A_35768	NW_004515722.1	scaffold151	35768	TT	CC	CC	INTERGENIC			
SNP_64644_A_35802	NW_004515722.1	scaffold151	35802	TT	AA	AA	INTERGENIC			
SNP_64645_A_35812	NW_004515722.1	scaffold151	35812	AA	CC	CC	INTERGENIC			
SNP_64646_A_35875	NW_004515722.1	scaffold151	35875	GG	AA	AA	INTERGENIC			
SNP_64647_A_35898	NW_004515722.1	scaffold151	35898	AA	GG	GG	INTERGENIC			
SNP_64649_A_36091	NW_004515722.1	scaffold151	36091	TT	AA	AA	INTERGENIC			
SNP_64650_A_36108	NW_004515722.1	scaffold151	36108	AA	GG	GG	INTERGENIC			
SNP_64651_A_36131	NW_004515722.1	scaffold151	36131	GG	CC	CC	INTERGENIC			
SNP_64652_A_42549	NW_004515722.1	scaffold151	42549	TT	CC	CC	INTERGENIC			
SNP_64653_A_42562	NW_004515722.1	scaffold151	42562	TT	AA	AA	INTERGENIC			
SNP_64654_A_42658	NW_004515722.1	scaffold151	42658	AA	GG	GG	INTERGENIC			
SNP_64655_A_45226	NW_004515722.1	scaffold151	45226	GG	AA	AA	INTERGENIC			
SNP_64656_A_45239	NW_004515722.1	scaffold151	45239	GG	AA	AA	INTERGENIC			
SNP_64658_A_61787	NW_004515722.1	scaffold151	61787	TT	CC	CC	INTERGENIC			
SNP_64659_A_65877	NW_004515722.1	scaffold151	65877	CC	TT	TT	INTERGENIC			
SNP_64661_A_99051	NW_004515722.1	scaffold151	99051	GG	AA	AA	INTERGENIC			
SNP_64662_A_107437	NW_004515722.1	scaffold151	107437	TT	CC	CC	INTERGENIC			
SNP_64663_A_112009	NW_004515722.1	scaffold151	112009	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64664_A_178044	NW_004515722.1	scaffold151	178044	AA	CC	CC	INTERGENIC			
SNP_64665_A_216362	NW_004515722.1	scaffold151	216362	TT	CC	CC	INTERGENIC			
SNP_64666_A_216552	NW_004515722.1	scaffold151	216552	TT	CC	CC	INTERGENIC			
SNP_64667_A_217474	NW_004515722.1	scaffold151	217474	GG	CC	TT	INTERGENIC			
SNP_64668_A_220703	NW_004515722.1	scaffold151	220703	TT	AA	AA	INTERGENIC			
SNP_64670_A_222272	NW_004515722.1	scaffold151	222272	CC	GG	GG	INTERGENIC			
SNP_64671_A_224186	NW_004515722.1	scaffold151	224186	AA	GG	GG	INTERGENIC			
SNP_64673_A_296552	NW_004515722.1	scaffold151	296552	CC	AA	AA	INTERGENIC			
SNP_64674_A_308843	NW_004515722.1	scaffold151	308843	TT	CC	CC	INTERGENIC			
SNP_64675_A_308844	NW_004515722.1	scaffold151	308844	TT	GG	GG	INTERGENIC			
SNP_64676_A_1183	NW_004515723.1	scaffold153	1183	TT	AA	AA	INTERGENIC			
SNP_64677_A_17942	NW_004515723.1	scaffold153	17942	CC	TT	TT	INTERGENIC			
SNP_64678_A_18892	NW_004515723.1	scaffold153	18892	AA	TT	TT	INTERGENIC			
SNP_64679_A_19303	NW_004515723.1	scaffold153	19303	GG	CC	CC	INTERGENIC			
SNP_64680_A_19347	NW_004515723.1	scaffold153	19347	AA	GG	GG	INTERGENIC			
SNP_64681_A_19919	NW_004515723.1	scaffold153	19919	TT	AA	AA	INTERGENIC			
SNP_64682_A_20014	NW_004515723.1	scaffold153	20014	GG	AA	AA	INTERGENIC			
SNP_64683_A_27964	NW_004515723.1	scaffold153	27964	AA	GG	GG	INTERGENIC			
SNP_64685_A_28114	NW_004515723.1	scaffold153	28114	GG	AA	AA	INTERGENIC			
SNP_64686_A_28122	NW_004515723.1	scaffold153	28122	GG	TT	TT	INTERGENIC			
SNP_64687_A_28124	NW_004515723.1	scaffold153	28124	TT	GG	GG	INTERGENIC			
SNP_64688_A_31079	NW_004515723.1	scaffold153	31079	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64689_A_35165	NW_004515723.1	scaffold153	35165	GG	AA	AA	INTERGENIC			
SNP_64690_A_35325	NW_004515723.1	scaffold153	35325	GG	AA	AA	INTERGENIC			
SNP_64691_A_45468	NW_004515723.1	scaffold153	45468	TT	CC	CC	INTERGENIC			
SNP_64692_A_45522	NW_004515723.1	scaffold153	45522	GG	AA	AA	INTERGENIC			
SNP_64693_A_77279	NW_004515723.1	scaffold153	77279	GG	TT	TT	INTERGENIC			
SNP_64694_A_81518	NW_004515723.1	scaffold153	81518	AA	TT	TT	INTERGENIC			
SNP_64695_A_89793	NW_004515723.1	scaffold153	89793	TT	CC	CC	INTERGENIC			
SNP_64696_A_89899	NW_004515723.1	scaffold153	89899	TT	AA	AA	INTERGENIC			
SNP_64697_A_90006	NW_004515723.1	scaffold153	90006	TT	GG	GG	INTERGENIC			
SNP_64698_A_90056	NW_004515723.1	scaffold153	90056	CC	TT	TT	INTERGENIC			
SNP_64699_A_90302	NW_004515723.1	scaffold153	90302	TT	GG	GG	INTERGENIC			
SNP_64700_A_92073	NW_004515723.1	scaffold153	92073	TT	CC	CC	INTERGENIC			
SNP_64701_A_107372	NW_004515723.1	scaffold153	107372	AA	GG	GG	INTERGENIC			
SNP_64702_A_107389	NW_004515723.1	scaffold153	107389	AA	GG	GG	INTERGENIC			
SNP_64703_A_107686	NW_004515723.1	scaffold153	107686	CC	AA	AA	INTERGENIC			
SNP_64704_A_107694	NW_004515723.1	scaffold153	107694	CC	GG	GG	INTERGENIC			
SNP_64705_A_107716	NW_004515723.1	scaffold153	107716	AA	TT	TT	INTERGENIC			
SNP_64706_A_107724	NW_004515723.1	scaffold153	107724	AA	GG	GG	INTERGENIC			
SNP_64707_A_107910	NW_004515723.1	scaffold153	107910	GG	AA	AA	INTERGENIC			
SNP_64708_A_116046	NW_004515723.1	scaffold153	116046	TT	CC	CC	INTERGENIC			
SNP_64709_A_27127	NW_004515725.1	scaffold157	27127	TT	GG	GG	INTERGENIC			
SNP_64710_A_27389	NW_004515725.1	scaffold157	27389	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64711_A_82682	NW_004515725.1	scaffold157	82682	GG	AA	AA	DRR	101514542	isoliquiritigenin 2'-O-methyltransferase-like
SNP_64713_A_169295	NW_004515725.1	scaffold157	169295	CC	AA	AA	INTERGENIC		
SNP_64714_A_169764	NW_004515725.1	scaffold157	169764	TT	CC	CC	INTERGENIC		
SNP_64715_A_172850	NW_004515725.1	scaffold157	172850	TT	CC	CC	INTERGENIC		
SNP_64716_A_182929	NW_004515725.1	scaffold157	182929	AA	GG	GG	DRR	101494137	E3 ubiquitin-protein ligase RNF4-like
SNP_64717_A_195643	NW_004515725.1	scaffold157	195643	AA	GG	GG	INTERGENIC		
SNP_64719_A_244763	NW_004515725.1	scaffold157	244763	GG	AA	AA	INTERGENIC		
SNP_64720_A_248133	NW_004515725.1	scaffold157	248133	AA	CC	CC	INTERGENIC		
SNP_64722_A_248353	NW_004515725.1	scaffold157	248353	TT	CC	CC	INTERGENIC		
SNP_64723_A_248355	NW_004515725.1	scaffold157	248355	GG	AA	AA	INTERGENIC		
SNP_64724_A_248377	NW_004515725.1	scaffold157	248377	GG	AA	AA	INTERGENIC		
SNP_64725_A_248824	NW_004515725.1	scaffold157	248824	GG	AA	AA	DRR	101495417	xyloglucan galactosyltransferase KATAMAR11 homolog
SNP_64726_A_248833	NW_004515725.1	scaffold157	248833	TT	AA	AA	DRR	101495417	xyloglucan galactosyltransferase KATAMAR11 homolog
SNP_64727_A_248849	NW_004515725.1	scaffold157	248849	TT	CC	CC	DRR	101495417	xyloglucan galactosyltransferase KATAMAR11 homolog
SNP_64728_A_251092	NW_004515725.1	scaffold157	251092	CC	TT	TT	URR	101495417	xyloglucan galactosyltransferase KATAMAR11 homolog
SNP_64729_A_252258	NW_004515725.1	scaffold157	252258	TT	CC	CC	URR	101495417	xyloglucan galactosyltransferase KATAMAR11 homolog
SNP_64732_A_257942	NW_004515725.1	scaffold157	257942	AA	GG	GG	URR	101495748	Unknown function
SNP_64733_A_258036	NW_004515725.1	scaffold157	258036	AA	GG	GG	URR	101495748	Unknown function
SNP_64734_A_258179	NW_004515725.1	scaffold157	258179	AA	GG	GG	URR	101495748	Unknown function
SNP_64735_A_258256	NW_004515725.1	scaffold157	258256	AA	GG	GG	URR	101495748	Unknown function
SNP_64736_A_258272	NW_004515725.1	scaffold157	258272	TT	CC	CC	URR	101495748	Unknown function
SNP_64737_A_258309	NW_004515725.1	scaffold157	258309	GG	TT	TT	URR	101495748	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64738_A_280313	NW_004515725.1	scaffold157	280313	GG	TT	TT	INTERGENIC			
SNP_64739_A_280548	NW_004515725.1	scaffold157	280548	GG	AA	AA	INTERGENIC			
SNP_64740_A_280775	NW_004515725.1	scaffold157	280775	TT	CC	CC	INTERGENIC			
SNP_64741_A_280851	NW_004515725.1	scaffold157	280851	GG	AA	AA	INTERGENIC			
SNP_64742_A_282757	NW_004515725.1	scaffold157	282757	TT	AA	AA	INTERGENIC			
SNP_64743_A_288972	NW_004515725.1	scaffold157	288972	CC	TT	TT	INTERGENIC			
SNP_64744_A_289207	NW_004515725.1	scaffold157	289207	TT	GG	GG	INTERGENIC			
SNP_64745_A_289254	NW_004515725.1	scaffold157	289254	TT	AA	AA	INTERGENIC			
SNP_64747_A_289329	NW_004515725.1	scaffold157	289329	TT	CC	CC	INTERGENIC			
SNP_64748_A_289331	NW_004515725.1	scaffold157	289331	GG	AA	AA	INTERGENIC			
SNP_64749_A_289341	NW_004515725.1	scaffold157	289341	TT	GG	GG	INTERGENIC			
SNP_64750_A_290655	NW_004515725.1	scaffold157	290655	TT	GG	GG	INTERGENIC			
SNP_64751_A_302061	NW_004515725.1	scaffold157	302061	GG	TT	TT	INTERGENIC			
SNP_64752_A_303050	NW_004515725.1	scaffold157	303050	TT	AA	AA	INTERGENIC			
SNP_64753_A_303350	NW_004515725.1	scaffold157	303350	AA	GG	GG	INTERGENIC			
SNP_64754_A_305497	NW_004515725.1	scaffold157	305497	AA	GG	GG	INTERGENIC			
SNP_64755_A_305531	NW_004515725.1	scaffold157	305531	TT	CC	CC	INTERGENIC			
SNP_64756_A_305557	NW_004515725.1	scaffold157	305557	GG	TT	TT	INTERGENIC			
SNP_64757_A_305561	NW_004515725.1	scaffold157	305561	AA	CC	CC	INTERGENIC			
SNP_64758_A_305595	NW_004515725.1	scaffold157	305595	GG	TT	TT	INTERGENIC			
SNP_64759_A_305602	NW_004515725.1	scaffold157	305602	AA	GG	GG	INTERGENIC			
SNP_64760_A_305618	NW_004515725.1	scaffold157	305618	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64761_A_305623	NW_004515725.1	scaffold157	305623	TT	GG	GG	INTERGENIC		
SNP_64762_A_305787	NW_004515725.1	scaffold157	305787	TT	CC	CC	INTERGENIC		
SNP_64763_A_305804	NW_004515725.1	scaffold157	305804	AA	GG	GG	INTERGENIC		
SNP_64764_A_305871	NW_004515725.1	scaffold157	305871	AA	TT	TT	INTERGENIC		
SNP_64765_A_307238	NW_004515725.1	scaffold157	307238	GG	AA	AA	INTERGENIC		
SNP_64766_A_308419	NW_004515725.1	scaffold157	308419	TT	CC	CC	INTERGENIC		
SNP_64767_A_308579	NW_004515725.1	scaffold157	308579	TT	CC	CC	INTERGENIC		
SNP_64768_A_308590	NW_004515725.1	scaffold157	308590	GG	TT	TT	INTERGENIC		
SNP_64769_A_308649	NW_004515725.1	scaffold157	308649	AA	GG	GG	INTERGENIC		
SNP_64770_A_308931	NW_004515725.1	scaffold157	308931	GG	AA	AA	INTERGENIC		
SNP_64772_A_309375	NW_004515725.1	scaffold157	309375	TT	CC	CC	INTERGENIC		
SNP_64773_A_312379	NW_004515725.1	scaffold157	312379	AA	CC	CC	INTERGENIC		
SNP_64774_A_312451	NW_004515725.1	scaffold157	312451	AA	GG	GG	INTERGENIC		
SNP_64775_A_312591	NW_004515725.1	scaffold157	312591	CC	AA	AA	INTERGENIC		
SNP_64776_A_322809	NW_004515725.1	scaffold157	322809	AA	CC	CC	INTRON	101490247	uncharacterized LOC101490247
SNP_64777_A_327202	NW_004515725.1	scaffold157	327202	CC	AA	AA	INTRON	101490247	uncharacterized LOC101490247
SNP_64778_A_328657	NW_004515725.1	scaffold157	328657	GG	AA	AA	URR	101490247	uncharacterized LOC101490247
SNP_64779_A_328702	NW_004515725.1	scaffold157	328702	TT	CC	CC	URR	101490247	uncharacterized LOC101490247
SNP_64780_A_329255	NW_004515725.1	scaffold157	329255	CC	TT	TT	URR	101490247	uncharacterized LOC101490247
SNP_64781_A_329263	NW_004515725.1	scaffold157	329263	AA	GG	GG	URR	101490247	uncharacterized LOC101490247
SNP_64782_A_330623	NW_004515725.1	scaffold157	330623	AA	GG	GG	INTERGENIC		
SNP_64783_A_330637	NW_004515725.1	scaffold157	330637	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64784_A_330676	NW_004515725.1	scaffold157	330676	AA	GG	GG	INTERGENIC		
SNP_64785_A_330724	NW_004515725.1	scaffold157	330724	GG	AA	AA	INTERGENIC		
SNP_64786_A_330730	NW_004515725.1	scaffold157	330730	AA	GG	GG	INTERGENIC		
SNP_64787_A_330736	NW_004515725.1	scaffold157	330736	AA	GG	GG	INTERGENIC		
SNP_64788_A_330991	NW_004515725.1	scaffold157	330991	AA	GG	GG	INTERGENIC		
SNP_64789_A_330993	NW_004515725.1	scaffold157	330993	AA	GG	GG	INTERGENIC		
SNP_64790_A_331003	NW_004515725.1	scaffold157	331003	GG	AA	AA	INTERGENIC		
SNP_64791_A_331020	NW_004515725.1	scaffold157	331020	CC	GG	GG	INTERGENIC		
SNP_64793_A_332789	NW_004515725.1	scaffold157	332789	CC	TT	TT	DRR	101496070	serine/threonine-protein phosphatase 7 long form homolog
SNP_64794_A_333002	NW_004515725.1	scaffold157	333002	GG	AA	AA	DRR	101496070	serine/threonine-protein phosphatase 7 long form homolog
SNP_64795_A_333047	NW_004515725.1	scaffold157	333047	AA	GG	GG	DRR	101496070	serine/threonine-protein phosphatase 7 long form homolog
SNP_64796_A_334885	NW_004515725.1	scaffold157	334885	GG	AA	AA	URR	101496070	serine/threonine-protein phosphatase 7 long form homolog
SNP_64798_A_337190	NW_004515725.1	scaffold157	337190	AA	TT	TT	INTERGENIC		
SNP_64799_A_337191	NW_004515725.1	scaffold157	337191	GG	AA	AA	INTERGENIC		
SNP_64800_A_337477	NW_004515725.1	scaffold157	337477	CC	TT	TT	INTERGENIC		
SNP_64801_A_337771	NW_004515725.1	scaffold157	337771	CC	TT	TT	INTERGENIC		
SNP_64802_A_337779	NW_004515725.1	scaffold157	337779	GG	AA	AA	INTERGENIC		
SNP_64803_A_340627	NW_004515725.1	scaffold157	340627	CC	TT	TT	INTERGENIC		
SNP_64804_A_341734	NW_004515725.1	scaffold157	341734	TT	CC	CC	INTERGENIC		
SNP_64805_A_341747	NW_004515725.1	scaffold157	341747	TT	CC	CC	INTERGENIC		
SNP_64806_A_341759	NW_004515725.1	scaffold157	341759	CC	TT	TT	INTERGENIC		
SNP_64807_A_342068	NW_004515725.1	scaffold157	342068	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64808_A_342125	NW_004515725.1	scaffold157	342125	CC	TT	TT	INTERGENIC		
SNP_64809_A_342366	NW_004515725.1	scaffold157	342366	GG	TT	TT	INTERGENIC		
SNP_64810_A_347304	NW_004515725.1	scaffold157	347304	GG	AA	AA	INTERGENIC		
SNP_64811_A_348046	NW_004515725.1	scaffold157	348046	TT	CC	CC	INTERGENIC		
SNP_64812_A_348319	NW_004515725.1	scaffold157	348319	CC	TT	TT	INTERGENIC		
SNP_64813_A_348464	NW_004515725.1	scaffold157	348464	TT	AA	AA	INTERGENIC		
SNP_64814_A_348472	NW_004515725.1	scaffold157	348472	GG	AA	AA	INTERGENIC		
SNP_64817_A_358685	NW_004515725.1	scaffold157	358685	CC	TT	TT	URR	101491109	uncharacterized LOC101491109
SNP_64819_A_359510	NW_004515725.1	scaffold157	359510	TT	AA	AA	URR	101491109	uncharacterized LOC101491109
SNP_64820_A_359520	NW_004515725.1	scaffold157	359520	CC	AA	AA	URR	101491109	uncharacterized LOC101491109
SNP_64821_A_359828	NW_004515725.1	scaffold157	359828	AA	CC	CC	URR	101491109	uncharacterized LOC101491109
SNP_64822_A_360498	NW_004515725.1	scaffold157	360498	GG	CC	CC	DRR	101496398	serpin-ZX-like
SNP_64823_A_399953	NW_004515725.1	scaffold157	399953	TT	CC	CC	INTERGENIC		
SNP_64824_A_410071	NW_004515725.1	scaffold157	410071	CC	TT	TT	INTERGENIC		
SNP_64825_A_460044	NW_004515725.1	scaffold157	460044	GG	AA	AA	INTERGENIC		
SNP_64826_A_477341	NW_004515725.1	scaffold157	477341	TT	AA	AA	INTERGENIC		
SNP_64827_A_8681	NW_004515726.1	scaffold158	8681	CC	TT	TT	INTERGENIC		
SNP_64828_A_10732	NW_004515726.1	scaffold158	10732	GG	AA	AA	INTERGENIC		
SNP_64829_A_80096	NW_004515726.1	scaffold158	80096	GG	CC	CC	DRR	101498027	Unknown function
SNP_64830_A_121704	NW_004515726.1	scaffold158	121704	CC	GG	GG	URR	101497703	Unknown function
SNP_64831_A_121931	NW_004515726.1	scaffold158	121931	GG	TT	TT	URR	101497703	Unknown function
SNP_64832_A_121958	NW_004515726.1	scaffold158	121958	CC	TT	TT	URR	101497703	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64833_A_121978	NW_004515726.1	scaffold158	121978	AA	CC	CC	URR	101497703	Unknown function
SNP_64834_A_122023	NW_004515726.1	scaffold158	122023	GG	TT	TT	URR	101497703	Unknown function
SNP_64835_A_131630	NW_004515726.1	scaffold158	131630	GG	AA	AA	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64837_A_131652	NW_004515726.1	scaffold158	131652	TT	CC	CC	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64838_A_131701	NW_004515726.1	scaffold158	131701	CC	TT	TT	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64839_A_131754	NW_004515726.1	scaffold158	131754	CC	AA	AA	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64840_A_131762	NW_004515726.1	scaffold158	131762	AA	GG	GG	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64841_A_131797	NW_004515726.1	scaffold158	131797	TT	CC	CC	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64842_A_131953	NW_004515726.1	scaffold158	131953	AA	TT	TT	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64843_A_132136	NW_004515726.1	scaffold158	132136	AA	CC	CC	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64844_A_132213	NW_004515726.1	scaffold158	132213	TT	CC	CC	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64845_A_132228	NW_004515726.1	scaffold158	132228	TT	GG	GG	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64846_A_132242	NW_004515726.1	scaffold158	132242	TT	CC	CC	INTRON	101498699	late cornified envelope-like proline-rich protein 1
SNP_64848_A_40607	NW_004515728.1	scaffold166	40607	CC	GG	GG	INTERGENIC		
SNP_64849_A_40681	NW_004515728.1	scaffold166	40681	AA	GG	GG	INTERGENIC		
SNP_64850_A_68293	NW_004515728.1	scaffold166	68293	GG	AA	AA	INTERGENIC		
SNP_64851_A_98411	NW_004515728.1	scaffold166	98411	CC	GG	GG	INTERGENIC		
SNP_64852_A_98701	NW_004515728.1	scaffold166	98701	GG	AA	AA	INTERGENIC		
SNP_64853_A_98781	NW_004515728.1	scaffold166	98781	TT	GG	GG	INTERGENIC		
SNP_64854_A_143261	NW_004515728.1	scaffold166	143261	TT	GG	GG	INTERGENIC		
SNP_64855_A_166954	NW_004515728.1	scaffold166	166954	CC	TT	TT	INTERGENIC		
SNP_64856_A_166988	NW_004515728.1	scaffold166	166988	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64857_A_175385	NW_004515728.1	scaffold166	175385	AA	TT	TT	INTERGENIC		
SNP_64858_A_189245	NW_004515728.1	scaffold166	189245	AA	GG	GG	INTERGENIC		
SNP_64859_A_196891	NW_004515728.1	scaffold166	196891	CC	GG	GG	INTERGENIC		
SNP_64860_A_199587	NW_004515728.1	scaffold166	199587	TT	CC	CC	INTERGENIC		
SNP_64861_A_199612	NW_004515728.1	scaffold166	199612	CC	TT	TT	INTERGENIC		
SNP_64862_A_199898	NW_004515728.1	scaffold166	199898	AA	GG	GG	INTERGENIC		
SNP_64863_A_211508	NW_004515728.1	scaffold166	211508	CC	TT	TT	INTERGENIC		
SNP_64864_A_226968	NW_004515728.1	scaffold166	226968	AA	GG	GG	INTERGENIC		
SNP_64865_A_227286	NW_004515728.1	scaffold166	227286	CC	TT	TT	INTERGENIC		
SNP_64866_A_227305	NW_004515728.1	scaffold166	227305	GG	TT	TT	INTERGENIC		
SNP_64867_A_298924	NW_004515728.1	scaffold166	298924	GG	TT	TT	INTERGENIC		
SNP_64868_A_298945	NW_004515728.1	scaffold166	298945	TT	CC	CC	INTERGENIC		
SNP_64869_A_298972	NW_004515728.1	scaffold166	298972	GG	TT	TT	INTERGENIC		
SNP_64870_A_299005	NW_004515728.1	scaffold166	299005	CC	TT	TT	INTERGENIC		
SNP_64871_A_299022	NW_004515728.1	scaffold166	299022	TT	CC	CC	INTERGENIC		
SNP_64872_A_299028	NW_004515728.1	scaffold166	299028	AA	GG	GG	INTERGENIC		
SNP_64873_A_299052	NW_004515728.1	scaffold166	299052	AA	TT	TT	INTERGENIC		
SNP_64874_A_299117	NW_004515728.1	scaffold166	299117	CC	TT	TT	INTERGENIC		
SNP_64875_A_299137	NW_004515728.1	scaffold166	299137	TT	CC	CC	INTERGENIC		
SNP_64876_A_299330	NW_004515728.1	scaffold166	299330	TT	CC	CC	INTERGENIC		
SNP_64877_A_299340	NW_004515728.1	scaffold166	299340	TT	GG	GG	INTERGENIC		
SNP_64880_A_38630	NW_004515729.1	scaffold167	38630	GG	AA	AA	STOP_GAINED	101506166	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64881_A_38705	NW_004515729.1	scaffold167	38705	TT	CC	CC	NON_SYNONYMOUS_CODING	101506166	Unknown function
SNP_64882_A_38766	NW_004515729.1	scaffold167	38766	GG	CC	CC	NON_SYNONYMOUS_CODING	101506166	Unknown function
SNP_64883_A_38986	NW_004515729.1	scaffold167	38986	CC	TT	TT	NON_SYNONYMOUS_CODING	101506166	Unknown function
SNP_64884_A_39032	NW_004515729.1	scaffold167	39032	TT	GG	GG	NON_SYNONYMOUS_CODING	101506166	Unknown function
SNP_64885_A_39159	NW_004515729.1	scaffold167	39159	GG	AA	AA	SYNONYMOUS_CODING	101506166	Unknown function
SNP_64886_A_39197	NW_004515729.1	scaffold167	39197	TT	GG	GG	NON_SYNONYMOUS_CODING	101506166	Unknown function
SNP_64887_A_54210	NW_004515729.1	scaffold167	54210	CC	TT	TT	INTERGENIC		
SNP_64888_A_68200	NW_004515729.1	scaffold167	68200	GG	AA	AA	INTERGENIC		
SNP_64889_A_68372	NW_004515729.1	scaffold167	68372	TT	CC	CC	INTERGENIC		
SNP_64890_A_68440	NW_004515729.1	scaffold167	68440	TT	CC	CC	INTERGENIC		
SNP_64891_A_68453	NW_004515729.1	scaffold167	68453	GG	CC	CC	INTERGENIC		
SNP_64892_A_153211	NW_004515729.1	scaffold167	153211	TT	CC	CC	INTERGENIC		
SNP_64893_A_202129	NW_004515729.1	scaffold167	202129	TT	CC	CC	INTERGENIC		
SNP_64894_A_217802	NW_004515729.1	scaffold167	217802	AA	CC	CC	INTERGENIC		
SNP_64895_A_217816	NW_004515729.1	scaffold167	217816	TT	GG	GG	INTERGENIC		
SNP_64896_A_217837	NW_004515729.1	scaffold167	217837	AA	GG	GG	INTERGENIC		
SNP_64897_A_217951	NW_004515729.1	scaffold167	217951	GG	AA	AA	INTERGENIC		
SNP_64898_A_217964	NW_004515729.1	scaffold167	217964	AA	CC	CC	INTERGENIC		
SNP_64899_A_217983	NW_004515729.1	scaffold167	217983	AA	GG	GG	INTERGENIC		
SNP_64902_A_219289	NW_004515729.1	scaffold167	219289	AA	GG	GG	INTERGENIC		
SNP_64903_A_219319	NW_004515729.1	scaffold167	219319	GG	AA	AA	INTERGENIC		
SNP_64904_A_219332	NW_004515729.1	scaffold167	219332	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64905_A_219384	NW_004515729.1	scaffold167	219384	AA	GG	GG	INTERGENIC			
SNP_64906_A_219597	NW_004515729.1	scaffold167	219597	TT	CC	CC	INTERGENIC			
SNP_64907_A_219813	NW_004515729.1	scaffold167	219813	CC	TT	TT	INTERGENIC			
SNP_64908_A_219851	NW_004515729.1	scaffold167	219851	AA	GG	GG	INTERGENIC			
SNP_64909_A_219860	NW_004515729.1	scaffold167	219860	CC	TT	TT	INTERGENIC			
SNP_64910_A_219985	NW_004515729.1	scaffold167	219985	AA	GG	GG	INTERGENIC			
SNP_64911_A_219992	NW_004515729.1	scaffold167	219992	AA	GG	GG	INTERGENIC			
SNP_64912_A_220003	NW_004515729.1	scaffold167	220003	AA	GG	GG	INTERGENIC			
SNP_64913_A_220059	NW_004515729.1	scaffold167	220059	CC	GG	GG	INTERGENIC			
SNP_64914_A_220063	NW_004515729.1	scaffold167	220063	CC	TT	TT	INTERGENIC			
SNP_64915_A_220072	NW_004515729.1	scaffold167	220072	TT	CC	CC	INTERGENIC			
SNP_64916_A_220191	NW_004515729.1	scaffold167	220191	AA	GG	GG	INTERGENIC			
SNP_64917_A_220229	NW_004515729.1	scaffold167	220229	AA	CC	CC	INTERGENIC			
SNP_64918_A_220301	NW_004515729.1	scaffold167	220301	AA	CC	CC	INTERGENIC			
SNP_64919_A_220303	NW_004515729.1	scaffold167	220303	GG	AA	AA	INTERGENIC			
SNP_64920_A_220397	NW_004515729.1	scaffold167	220397	AA	GG	GG	INTERGENIC			
SNP_64921_A_222734	NW_004515729.1	scaffold167	222734	AA	GG	GG	INTERGENIC			
SNP_64922_A_295259	NW_004515729.1	scaffold167	295259	AA	GG	GG	INTERGENIC			
SNP_64923_A_303081	NW_004515729.1	scaffold167	303081	TT	CC	CC	INTERGENIC			
SNP_64924_A_303097	NW_004515729.1	scaffold167	303097	AA	GG	GG	INTERGENIC			
SNP_64925_A_303098	NW_004515729.1	scaffold167	303098	CC	AA	AA	INTERGENIC			
SNP_64926_A_303103	NW_004515729.1	scaffold167	303103	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64927_A_303143	NW_004515729.1	scaffold167	303143	TT	CC	CC	INTERGENIC			
SNP_64928_A_303181	NW_004515729.1	scaffold167	303181	CC	TT	TT	INTERGENIC			
SNP_64929_A_303194	NW_004515729.1	scaffold167	303194	CC	TT	TT	INTERGENIC			
SNP_64930_A_303222	NW_004515729.1	scaffold167	303222	GG	TT	TT	INTERGENIC			
SNP_64931_A_303286	NW_004515729.1	scaffold167	303286	AA	GG	GG	INTERGENIC			
SNP_64932_A_303429	NW_004515729.1	scaffold167	303429	GG	AA	AA	INTERGENIC			
SNP_64933_A_303524	NW_004515729.1	scaffold167	303524	GG	TT	TT	INTERGENIC			
SNP_64934_A_303534	NW_004515729.1	scaffold167	303534	AA	GG	GG	INTERGENIC			
SNP_64935_A_303553	NW_004515729.1	scaffold167	303553	AA	GG	GG	INTERGENIC			
SNP_64936_A_303898	NW_004515729.1	scaffold167	303898	TT	GG	GG	INTERGENIC			
SNP_64937_A_303925	NW_004515729.1	scaffold167	303925	TT	GG	GG	INTERGENIC			
SNP_64938_A_320806	NW_004515729.1	scaffold167	320806	AA	GG	GG	INTERGENIC			
SNP_64939_A_320830	NW_004515729.1	scaffold167	320830	GG	AA	AA	INTERGENIC			
SNP_64940_A_320872	NW_004515729.1	scaffold167	320872	AA	CC	CC	INTERGENIC			
SNP_64941_A_320898	NW_004515729.1	scaffold167	320898	AA	CC	CC	INTERGENIC			
SNP_64942_A_322726	NW_004515729.1	scaffold167	322726	AA	CC	CC	INTERGENIC			
SNP_64943_A_322859	NW_004515729.1	scaffold167	322859	TT	AA	AA	INTERGENIC			
SNP_64944_A_331993	NW_004515729.1	scaffold167	331993	CC	TT	TT	INTERGENIC			
SNP_64945_A_332023	NW_004515729.1	scaffold167	332023	TT	CC	CC	INTERGENIC			
SNP_64946_A_332305	NW_004515729.1	scaffold167	332305	GG	TT	TT	INTERGENIC			
SNP_64947_A_332306	NW_004515729.1	scaffold167	332306	TT	AA	AA	INTERGENIC			
SNP_64948_A_332321	NW_004515729.1	scaffold167	332321	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64949_A_332358	NW_004515729.1	scaffold167	332358	GG	AA	AA	INTERGENIC			
SNP_64952_A_403222	NW_004515729.1	scaffold167	403222	AA	CC	CC	INTERGENIC			
SNP_64953_A_403224	NW_004515729.1	scaffold167	403224	TT	AA	AA	INTERGENIC			
SNP_64954_A_447299	NW_004515729.1	scaffold167	447299	TT	CC	CC	INTERGENIC			
SNP_64955_A_449656	NW_004515729.1	scaffold167	449656	CC	TT	TT	INTERGENIC			
SNP_64956_A_467591	NW_004515729.1	scaffold167	467591	TT	CC	CC	INTERGENIC			
SNP_64957_A_13307	NW_004515730.1	scaffold170	13307	CC	TT	TT	INTERGENIC			
SNP_64958_A_13340	NW_004515730.1	scaffold170	13340	GG	AA	AA	INTERGENIC			
SNP_64959_A_13454	NW_004515730.1	scaffold170	13454	GG	AA	AA	INTERGENIC			
SNP_64960_A_13504	NW_004515730.1	scaffold170	13504	TT	CC	CC	INTERGENIC			
SNP_64961_A_13656	NW_004515730.1	scaffold170	13656	AA	GG	GG	INTERGENIC			
SNP_64962_A_13676	NW_004515730.1	scaffold170	13676	TT	CC	CC	INTERGENIC			
SNP_64963_A_13739	NW_004515730.1	scaffold170	13739	TT	CC	CC	INTERGENIC			
SNP_64964_A_8159	NW_004515731.1	scaffold171	8159	TT	CC	CC	INTERGENIC			
SNP_64965_A_8175	NW_004515731.1	scaffold171	8175	AA	TT	TT	INTERGENIC			
SNP_64966_A_12748	NW_004515731.1	scaffold171	12748	CC	GG	GG	INTERGENIC			
SNP_64967_A_15298	NW_004515731.1	scaffold171	15298	AA	GG	GG	INTERGENIC			
SNP_64968_A_15435	NW_004515731.1	scaffold171	15435	AA	GG	GG	INTERGENIC			
SNP_64969_A_18135	NW_004515731.1	scaffold171	18135	TT	GG	GG	INTERGENIC			
SNP_64970_A_19258	NW_004515731.1	scaffold171	19258	CC	AA	AA	INTERGENIC			
SNP_64971_A_26486	NW_004515731.1	scaffold171	26486	AA	CC	CC	INTERGENIC			
SNP_64972_A_26523	NW_004515731.1	scaffold171	26523	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_64973_A_27040	NW_004515731.1	scaffold171	27040	TT	GG	GG	INTERGENIC		
SNP_64974_A_36906	NW_004515731.1	scaffold171	36906	AA	GG	GG	INTERGENIC		
SNP_64975_A_46054	NW_004515731.1	scaffold171	46054	AA	GG	GG	INTERGENIC		
SNP_64976_A_49100	NW_004515731.1	scaffold171	49100	TT	CC	CC	INTERGENIC		
SNP_64977_A_49404	NW_004515731.1	scaffold171	49404	GG	AA	AA	INTERGENIC		
SNP_64978_A_54486	NW_004515731.1	scaffold171	54486	CC	AA	AA	INTERGENIC		
SNP_64979_A_105663	NW_004515731.1	scaffold171	105663	TT	CC	CC	INTERGENIC		
SNP_64980_A_105700	NW_004515731.1	scaffold171	105700	CC	AA	AA	INTERGENIC		
SNP_64981_A_106890	NW_004515731.1	scaffold171	106890	CC	TT	TT	INTERGENIC		
SNP_64982_A_107094	NW_004515731.1	scaffold171	107094	AA	CC	CC	INTERGENIC		
SNP_64983_A_107215	NW_004515731.1	scaffold171	107215	CC	TT	TT	INTERGENIC		
SNP_64984_A_114451	NW_004515731.1	scaffold171	114451	TT	AA	AA	INTERGENIC		
SNP_64985_A_117095	NW_004515731.1	scaffold171	117095	CC	TT	TT	NON_SYNONYMOUS_CODING	id196814	Unknown function
SNP_64986_A_121627	NW_004515731.1	scaffold171	121627	TT	CC	CC	INTERGENIC		
SNP_64987_A_121851	NW_004515731.1	scaffold171	121851	GG	AA	AA	INTERGENIC		
SNP_64988_A_125640	NW_004515731.1	scaffold171	125640	CC	TT	TT	INTERGENIC		
SNP_64989_A_130088	NW_004515731.1	scaffold171	130088	GG	TT	TT	INTERGENIC		
SNP_64990_A_130103	NW_004515731.1	scaffold171	130103	GG	AA	AA	INTERGENIC		
SNP_64991_A_130107	NW_004515731.1	scaffold171	130107	AA	TT	TT	INTERGENIC		
SNP_64992_A_130118	NW_004515731.1	scaffold171	130118	TT	CC	CC	INTERGENIC		
SNP_64993_A_130161	NW_004515731.1	scaffold171	130161	AA	GG	GG	INTERGENIC		
SNP_64994_A_130231	NW_004515731.1	scaffold171	130231	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_64996_A_130458	NW_004515731.1	scaffold171	130458	CC	GG	GG	INTERGENIC			
SNP_64997_A_133222	NW_004515731.1	scaffold171	133222	AA	CC	CC	INTERGENIC			
SNP_64998_A_135849	NW_004515731.1	scaffold171	135849	TT	CC	CC	INTERGENIC			
SNP_64999_A_136051	NW_004515731.1	scaffold171	136051	GG	AA	AA	INTERGENIC			
SNP_65001_A_151083	NW_004515731.1	scaffold171	151083	CC	AA	AA	INTERGENIC			
SNP_65002_A_159656	NW_004515731.1	scaffold171	159656	CC	AA	AA	INTERGENIC			
SNP_65003_A_166530	NW_004515731.1	scaffold171	166530	CC	GG	GG	INTERGENIC			
SNP_65004_A_176083	NW_004515731.1	scaffold171	176083	AA	GG	GG	INTERGENIC			
SNP_65006_A_182602	NW_004515731.1	scaffold171	182602	TT	AA	AA	INTERGENIC			
SNP_65008_A_184539	NW_004515731.1	scaffold171	184539	GG	CC	CC	INTERGENIC			
SNP_65009_A_190168	NW_004515731.1	scaffold171	190168	CC	AA	AA	INTERGENIC			
SNP_65011_A_190809	NW_004515731.1	scaffold171	190809	CC	TT	TT	INTERGENIC			
SNP_65012_A_192974	NW_004515731.1	scaffold171	192974	AA	CC	CC	INTERGENIC			
SNP_65013_A_201664	NW_004515731.1	scaffold171	201664	TT	CC	CC	INTERGENIC			
SNP_65014_A_201665	NW_004515731.1	scaffold171	201665	TT	CC	CC	INTERGENIC			
SNP_65015_A_201698	NW_004515731.1	scaffold171	201698	CC	TT	TT	INTERGENIC			
SNP_65016_A_218810	NW_004515731.1	scaffold171	218810	CC	AA	AA	URR	101510345	uncharacterized LOC101510345	
SNP_65017_A_220994	NW_004515731.1	scaffold171	220994	CC	AA	AA	INTERGENIC			
SNP_65018_A_223744	NW_004515731.1	scaffold171	223744	TT	CC	CC	INTERGENIC			
SNP_65020_A_225545	NW_004515731.1	scaffold171	225545	AA	GG	GG	INTERGENIC			
SNP_65021_A_225896	NW_004515731.1	scaffold171	225896	CC	TT	TT	INTERGENIC			
SNP_65022_A_227493	NW_004515731.1	scaffold171	227493	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65023_A_227618	NW_004515731.1	scaffold171	227618	CC	TT	TT	INTERGENIC		
SNP_65024_A_228567	NW_004515731.1	scaffold171	228567	GG	TT	TT	INTERGENIC		
SNP_65025_A_1850	NW_004515733.1	scaffold174	1850	TT	GG	GG	INTERGENIC		
SNP_65026_A_5210	NW_004515733.1	scaffold174	5210	CC	AA	AA	INTERGENIC		
SNP_65027_A_11220	NW_004515733.1	scaffold174	11220	CC	TT	TT	INTERGENIC		
SNP_65028_A_14918	NW_004515733.1	scaffold174	14918	GG	TT	TT	INTERGENIC		
SNP_65029_A_15006	NW_004515733.1	scaffold174	15006	AA	GG	GG	INTERGENIC		
SNP_65030_A_15154	NW_004515733.1	scaffold174	15154	AA	GG	GG	INTERGENIC		
SNP_65032_A_48279	NW_004515733.1	scaffold174	48279	AA	GG	GG	INTRON	101511520	chaperone protein dnaJ 6-like
SNP_65033_A_51483	NW_004515733.1	scaffold174	51483	TT	AA	AA	INTRON	101511520	chaperone protein dnaJ 6-like
SNP_65034_A_68115	NW_004515733.1	scaffold174	68115	TT	CC	CC	INTERGENIC		
SNP_65035_A_70382	NW_004515733.1	scaffold174	70382	AA	GG	GG	INTERGENIC		
SNP_65036_A_80475	NW_004515733.1	scaffold174	80475	TT	CC	CC	INTRON	101513245	carboxyl-terminal-processing peptidase 3, chloroplastic
SNP_65038_A_85280	NW_004515733.1	scaffold174	85280	CC	TT	TT	URR	101513245	carboxyl-terminal-processing peptidase 3, chloroplastic
SNP_65039_A_88383	NW_004515733.1	scaffold174	88383	GG	AA	AA	INTERGENIC		
SNP_65040_A_89898	NW_004515733.1	scaffold174	89898	TT	CC	CC	INTERGENIC		
SNP_65041_A_89899	NW_004515733.1	scaffold174	89899	AA	GG	GG	INTERGENIC		
SNP_65042_A_89909	NW_004515733.1	scaffold174	89909	GG	AA	AA	INTERGENIC		
SNP_65043_A_89934	NW_004515733.1	scaffold174	89934	CC	TT	TT	INTERGENIC		
SNP_65044_A_89945	NW_004515733.1	scaffold174	89945	TT	AA	AA	INTERGENIC		
SNP_65046_A_89997	NW_004515733.1	scaffold174	89997	GG	TT	TT	INTERGENIC		
SNP_65047_A_90051	NW_004515733.1	scaffold174	90051	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65048_A_90107	NW_004515733.1	scaffold174	90107	AA	TT	TT	INTERGENIC		
SNP_65049_A_90169	NW_004515733.1	scaffold174	90169	TT	AA	AA	INTERGENIC		
SNP_65050_A_90187	NW_004515733.1	scaffold174	90187	AA	TT	TT	INTERGENIC		
SNP_65051_A_90416	NW_004515733.1	scaffold174	90416	AA	GG	GG	INTERGENIC		
SNP_65052_A_90478	NW_004515733.1	scaffold174	90478	TT	AA	AA	INTERGENIC		
SNP_65053_A_90531	NW_004515733.1	scaffold174	90531	TT	CC	CC	INTERGENIC		
SNP_65056_A_131295	NW_004515733.1	scaffold174	131295	AA	CC	CC	INTERGENIC		
SNP_65057_A_134479	NW_004515733.1	scaffold174	134479	CC	GG	GG	DRR	101488506	uncharacterized LOC101488506
SNP_65060_A_142723	NW_004515733.1	scaffold174	142723	CC	TT	TT	URR	101488506	uncharacterized LOC101488506
SNP_65061_A_151961	NW_004515733.1	scaffold174	151961	CC	AA	AA	INTERGENIC		
SNP_65062_A_153646	NW_004515733.1	scaffold174	153646	TT	CC	CC	INTERGENIC		
SNP_65064_A_167147	NW_004515733.1	scaffold174	167147	GG	TT	TT	INTERGENIC		
SNP_65066_A_179646	NW_004515733.1	scaffold174	179646	GG	TT	TT	INTERGENIC		
SNP_65067_A_180894	NW_004515733.1	scaffold174	180894	AA	GG	GG	INTERGENIC		
SNP_65068_A_185187	NW_004515733.1	scaffold174	185187	GG	AA	AA	INTERGENIC		
SNP_65069_A_185544	NW_004515733.1	scaffold174	185544	CC	TT	TT	INTERGENIC		
SNP_65070_A_186959	NW_004515733.1	scaffold174	186959	AA	GG	GG	INTERGENIC		
SNP_65071_A_191316	NW_004515733.1	scaffold174	191316	AA	GG	GG	INTRON	101513884	zinc finger protein WIP2-like
SNP_65072_A_191349	NW_004515733.1	scaffold174	191349	CC	TT	TT	INTRON	101513884	zinc finger protein WIP2-like
SNP_65073_A_191359	NW_004515733.1	scaffold174	191359	CC	GG	GG	INTRON	101513884	zinc finger protein WIP2-like
SNP_65074_A_191401	NW_004515733.1	scaffold174	191401	TT	AA	AA	INTRON	101513884	zinc finger protein WIP2-like
SNP_65075_A_191452	NW_004515733.1	scaffold174	191452	AA	GG	GG	INTRON	101513884	zinc finger protein WIP2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65076_A_192235	NW_004515733.1	scaffold174	192235	AA	GG	GG	URR	101513884	zinc finger protein WIP2-like
SNP_65078_A_193193	NW_004515733.1	scaffold174	193193	TT	CC	CC	URR	101513884	zinc finger protein WIP2-like
SNP_65079_A_193194	NW_004515733.1	scaffold174	193194	CC	AA	AA	URR	101513884	zinc finger protein WIP2-like
SNP_65080_A_195676	NW_004515733.1	scaffold174	195676	AA	GG	GG	INTERGENIC		
SNP_65081_A_198560	NW_004515733.1	scaffold174	198560	TT	GG	GG	INTERGENIC		
SNP_65082_A_201018	NW_004515733.1	scaffold174	201018	AA	TT	TT	INTERGENIC		
SNP_65083_A_202063	NW_004515733.1	scaffold174	202063	GG	CC	CC	INTERGENIC		
SNP_65084_A_205743	NW_004515733.1	scaffold174	205743	TT	CC	CC	INTERGENIC		
SNP_65086_A_208366	NW_004515733.1	scaffold174	208366	TT	AA	AA	INTERGENIC		
SNP_65087_A_208506	NW_004515733.1	scaffold174	208506	AA	GG	GG	INTERGENIC		
SNP_65088_A_208766	NW_004515733.1	scaffold174	208766	TT	GG	GG	INTERGENIC		
SNP_65089_A_208809	NW_004515733.1	scaffold174	208809	GG	AA	AA	INTERGENIC		
SNP_65090_A_221448	NW_004515733.1	scaffold174	221448	TT	AA	AA	INTERGENIC		
SNP_65091_A_223804	NW_004515733.1	scaffold174	223804	CC	TT	TT	INTERGENIC		
SNP_65092_A_224802	NW_004515733.1	scaffold174	224802	AA	GG	GG	INTERGENIC		
SNP_65094_A_230699	NW_004515733.1	scaffold174	230699	TT	GG	GG	INTERGENIC		
SNP_65095_A_230725	NW_004515733.1	scaffold174	230725	AA	GG	GG	INTERGENIC		
SNP_65096_A_233279	NW_004515733.1	scaffold174	233279	CC	TT	TT	INTERGENIC		
SNP_65097_A_233282	NW_004515733.1	scaffold174	233282	AA	CC	CC	INTERGENIC		
SNP_65098_A_233283	NW_004515733.1	scaffold174	233283	AA	CC	CC	INTERGENIC		
SNP_65099_A_236160	NW_004515733.1	scaffold174	236160	AA	GG	GG	INTERGENIC		
SNP_65100_A_258876	NW_004515733.1	scaffold174	258876	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65101_A_259065	NW_004515733.1	scaffold174	259065	AA	GG	GG	INTERGENIC		
SNP_65102_A_259289	NW_004515733.1	scaffold174	259289	TT	GG	GG	INTERGENIC		
SNP_65103_A_259313	NW_004515733.1	scaffold174	259313	GG	TT	TT	INTERGENIC		
SNP_65104_A_259359	NW_004515733.1	scaffold174	259359	CC	GG	GG	INTERGENIC		
SNP_65105_A_262589	NW_004515733.1	scaffold174	262589	CC	TT	TT	DRR	101488843	DNA-directed RNA polymerase I subunit rpa1-like
SNP_65106_A_270025	NW_004515733.1	scaffold174	270025	GG	AA	AA	INTRON	101488843	DNA-directed RNA polymerase I subunit rpa1-like
SNP_65107_A_279258	NW_004515733.1	scaffold174	279258	TT	CC	CC	INTERGENIC		
SNP_65109_A_279970	NW_004515733.1	scaffold174	279970	CC	TT	TT	INTERGENIC		
SNP_65110_A_281357	NW_004515733.1	scaffold174	281357	AA	GG	GG	INTERGENIC		
SNP_65111_A_298619	NW_004515733.1	scaffold174	298619	CC	TT	TT	INTERGENIC		
SNP_65112_A_298628	NW_004515733.1	scaffold174	298628	AA	GG	GG	INTERGENIC		
SNP_65113_A_303938	NW_004515733.1	scaffold174	303938	GG	TT	TT	INTERGENIC		
SNP_65114_A_307072	NW_004515733.1	scaffold174	307072	GG	TT	TT	INTERGENIC		
SNP_65115_A_307352	NW_004515733.1	scaffold174	307352	TT	CC	CC	INTERGENIC		
SNP_65116_A_307501	NW_004515733.1	scaffold174	307501	GG	AA	AA	INTERGENIC		
SNP_65117_A_326480	NW_004515733.1	scaffold174	326480	CC	GG	GG	INTERGENIC		
SNP_65118_A_327084	NW_004515733.1	scaffold174	327084	TT	GG	GG	INTERGENIC		
SNP_65120_A_330356	NW_004515733.1	scaffold174	330356	GG	AA	AA	INTERGENIC		
SNP_65122_A_351737	NW_004515733.1	scaffold174	351737	TT	GG	GG	INTERGENIC		
SNP_65123_A_352099	NW_004515733.1	scaffold174	352099	TT	CC	CC	INTERGENIC		
SNP_65124_A_352583	NW_004515733.1	scaffold174	352583	TT	CC	CC	INTERGENIC		
SNP_65125_A_352584	NW_004515733.1	scaffold174	352584	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65126_A_352779	NW_004515733.1	scaffold174	352779	AA	CC	CC	INTERGENIC			
SNP_65127_A_352830	NW_004515733.1	scaffold174	352830	AA	GG	GG	INTERGENIC			
SNP_65129_A_359922	NW_004515733.1	scaffold174	359922	AA	TT	TT	INTERGENIC			
SNP_65130_A_369731	NW_004515733.1	scaffold174	369731	AA	TT	TT	INTERGENIC			
SNP_65131_A_369988	NW_004515733.1	scaffold174	369988	GG	AA	AA	INTERGENIC			
SNP_65132_A_371481	NW_004515733.1	scaffold174	371481	GG	TT	TT	INTERGENIC			
SNP_65133_A_373421	NW_004515733.1	scaffold174	373421	GG	TT	TT	INTERGENIC			
SNP_65135_A_373756	NW_004515733.1	scaffold174	373756	GG	AA	AA	INTERGENIC			
SNP_65136_A_374254	NW_004515733.1	scaffold174	374254	GG	CC	CC	INTERGENIC			
SNP_65138_A_380612	NW_004515733.1	scaffold174	380612	TT	CC	CC	INTERGENIC			
SNP_65139_A_381363	NW_004515733.1	scaffold174	381363	AA	GG	GG	INTERGENIC			
SNP_65140_A_381807	NW_004515733.1	scaffold174	381807	GG	AA	AA	INTERGENIC			
SNP_65141_A_383268	NW_004515733.1	scaffold174	383268	CC	AA	AA	INTERGENIC			
SNP_65142_A_384251	NW_004515733.1	scaffold174	384251	AA	GG	GG	DRR	101514758	1-acyl-sn-glycerol-3-phosphate acyltransferase 2-like	
SNP_65143_A_384771	NW_004515733.1	scaffold174	384771	AA	GG	GG	DRR	101514758	1-acyl-sn-glycerol-3-phosphate acyltransferase 2-like	
SNP_65144_A_386761	NW_004515733.1	scaffold174	386761	GG	TT	TT	INTRON	101514758	1-acyl-sn-glycerol-3-phosphate acyltransferase 2-like	
SNP_65145_A_409295	NW_004515733.1	scaffold174	409295	CC	TT	TT	INTERGENIC			
SNP_65146_A_422780	NW_004515733.1	scaffold174	422780	CC	TT	TT	INTERGENIC			
SNP_65147_A_422828	NW_004515733.1	scaffold174	422828	TT	AA	AA	INTERGENIC			
SNP_65148_A_423903	NW_004515733.1	scaffold174	423903	TT	CC	CC	INTERGENIC			
SNP_65149_A_427616	NW_004515733.1	scaffold174	427616	CC	TT	TT	INTERGENIC			
SNP_65150_A_429826	NW_004515733.1	scaffold174	429826	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65151_A_456834	NW_004515733.1	scaffold174	456834	AA	CC	CC	INTRON	101515084	probable helicase MAGATAMA 3
SNP_65152_A_462730	NW_004515733.1	scaffold174	462730	CC	TT	TT	URR	101515084	probable helicase MAGATAMA 3
SNP_65153_A_468389	NW_004515733.1	scaffold174	468389	AA	GG	GG	INTERGENIC		
SNP_65154_A_470283	NW_004515733.1	scaffold174	470283	GG	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65155_A_470380	NW_004515733.1	scaffold174	470380	CC	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65156_A_470510	NW_004515733.1	scaffold174	470510	AA	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65157_A_470520	NW_004515733.1	scaffold174	470520	GG	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65158_A_470528	NW_004515733.1	scaffold174	470528	AA	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65159_A_470534	NW_004515733.1	scaffold174	470534	CC	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65160_A_470558	NW_004515733.1	scaffold174	470558	GG	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65161_A_470587	NW_004515733.1	scaffold174	470587	AA	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65162_A_470666	NW_004515733.1	scaffold174	470666	GG	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65164_A_470693	NW_004515733.1	scaffold174	470693	GG	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65165_A_470971	NW_004515733.1	scaffold174	470971	GG	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_65167_A_479486	NW_004515733.1	scaffold174	479486	GG	TT	TT	INTERGENIC		
SNP_65168_A_479714	NW_004515733.1	scaffold174	479714	TT	GG	GG	INTERGENIC		
SNP_65169_A_479730	NW_004515733.1	scaffold174	479730	GG	TT	TT	INTERGENIC		
SNP_65170_A_479760	NW_004515733.1	scaffold174	479760	AA	CC	CC	INTERGENIC		
SNP_65171_A_479837	NW_004515733.1	scaffold174	479837	GG	AA	AA	INTERGENIC		
SNP_65172_A_481947	NW_004515733.1	scaffold174	481947	AA	GG	GG	INTERGENIC		
SNP_65173_A_486895	NW_004515733.1	scaffold174	486895	AA	TT	TT	INTERGENIC		
SNP_65174_A_487851	NW_004515733.1	scaffold174	487851	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65175_A_490388	NW_004515733.1	scaffold174	490388	TT	CC	CC	INTERGENIC		
SNP_65177_A_493978	NW_004515733.1	scaffold174	493978	GG	AA	AA	INTERGENIC		
SNP_65178_A_495298	NW_004515733.1	scaffold174	495298	GG	TT	TT	INTERGENIC		
SNP_65180_A_34697	NW_004515735.1	scaffold181	34697	AA	GG	GG	INTRON	101491007	carboxylesterase 1-like
SNP_65181_A_75749	NW_004515735.1	scaffold181	75749	CC	AA	AA	INTERGENIC		
SNP_65182_A_83283	NW_004515735.1	scaffold181	83283	AA	CC	CC	INTERGENIC		
SNP_65183_A_94294	NW_004515735.1	scaffold181	94294	GG	TT	TT	INTERGENIC		
SNP_65184_A_94330	NW_004515735.1	scaffold181	94330	AA	GG	GG	INTERGENIC		
SNP_65185_A_94337	NW_004515735.1	scaffold181	94337	AA	CC	CC	INTERGENIC		
SNP_65186_A_122044	NW_004515735.1	scaffold181	122044	TT	CC	CC	INTERGENIC		
SNP_65187_A_126815	NW_004515735.1	scaffold181	126815	TT	AA	AA	INTERGENIC		
SNP_65188_A_136934	NW_004515735.1	scaffold181	136934	AA	GG	GG	INTERGENIC		
SNP_65189_A_165039	NW_004515735.1	scaffold181	165039	GG	AA	AA	INTERGENIC		
SNP_65190_A_198610	NW_004515735.1	scaffold181	198610	CC	TT	TT	INTERGENIC		
SNP_65191_A_203774	NW_004515735.1	scaffold181	203774	AA	GG	GG	INTERGENIC		
SNP_65192_A_25689	NW_004515738.1	scaffold186	25689	AA	GG	GG	URR	101493067	TMV resistance protein N-like
SNP_65193_A_25726	NW_004515738.1	scaffold186	25726	AA	TT	TT	URR	101493067	TMV resistance protein N-like
SNP_65194_A_65058	NW_004515738.1	scaffold186	65058	TT	CC	CC	INTERGENIC		
SNP_65195_A_79299	NW_004515738.1	scaffold186	79299	AA	CC	CC	INTERGENIC		
SNP_65196_A_79326	NW_004515738.1	scaffold186	79326	GG	AA	AA	INTERGENIC		
SNP_65197_A_79332	NW_004515738.1	scaffold186	79332	GG	AA	AA	INTERGENIC		
SNP_65198_A_108060	NW_004515738.1	scaffold186	108060	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65199_A_112117	NW_004515738.1	scaffold186	112117	GG	AA	AA	INTERGENIC			
SNP_65200_A_112341	NW_004515738.1	scaffold186	112341	CC	TT	TT	INTERGENIC			
SNP_65201_A_122192	NW_004515738.1	scaffold186	122192	CC	TT	TT	INTERGENIC			
SNP_65202_A_124727	NW_004515738.1	scaffold186	124727	CC	TT	TT	INTERGENIC			
SNP_65203_A_125093	NW_004515738.1	scaffold186	125093	CC	TT	TT	INTERGENIC			
SNP_65204_A_125184	NW_004515738.1	scaffold186	125184	AA	GG	GG	INTERGENIC			
SNP_65205_A_151599	NW_004515738.1	scaffold186	151599	AA	TT	TT	INTERGENIC			
SNP_65206_A_151641	NW_004515738.1	scaffold186	151641	AA	GG	GG	INTERGENIC			
SNP_65207_A_157872	NW_004515738.1	scaffold186	157872	AA	GG	GG	INTERGENIC			
SNP_65208_A_176380	NW_004515738.1	scaffold186	176380	TT	GG	GG	INTERGENIC			
SNP_65209_A_176412	NW_004515738.1	scaffold186	176412	TT	CC	CC	INTERGENIC			
SNP_65210_A_176708	NW_004515738.1	scaffold186	176708	GG	AA	AA	INTERGENIC			
SNP_65211_A_176736	NW_004515738.1	scaffold186	176736	CC	TT	TT	INTERGENIC			
SNP_65212_A_176826	NW_004515738.1	scaffold186	176826	GG	CC	CC	INTERGENIC			
SNP_65213_A_176828	NW_004515738.1	scaffold186	176828	TT	CC	CC	INTERGENIC			
SNP_65214_A_176830	NW_004515738.1	scaffold186	176830	CC	AA	AA	INTERGENIC			
SNP_65215_A_176831	NW_004515738.1	scaffold186	176831	AA	GG	GG	INTERGENIC			
SNP_65216_A_178783	NW_004515738.1	scaffold186	178783	TT	CC	CC	INTERGENIC			
SNP_65217_A_178816	NW_004515738.1	scaffold186	178816	CC	TT	TT	INTERGENIC			
SNP_65218_A_178827	NW_004515738.1	scaffold186	178827	AA	GG	GG	INTERGENIC			
SNP_65219_A_178849	NW_004515738.1	scaffold186	178849	TT	AA	AA	INTERGENIC			
SNP_65220_A_179100	NW_004515738.1	scaffold186	179100	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65221_A_179126	NW_004515738.1	scaffold186	179126	CC	AA	AA	INTERGENIC			
SNP_65222_A_179146	NW_004515738.1	scaffold186	179146	TT	CC	CC	INTERGENIC			
SNP_65223_A_181336	NW_004515738.1	scaffold186	181336	GG	TT	TT	INTERGENIC			
SNP_65224_A_181348	NW_004515738.1	scaffold186	181348	AA	CC	CC	INTERGENIC			
SNP_65225_A_181357	NW_004515738.1	scaffold186	181357	TT	AA	AA	INTERGENIC			
SNP_65226_A_181397	NW_004515738.1	scaffold186	181397	CC	GG	GG	INTERGENIC			
SNP_65227_A_181398	NW_004515738.1	scaffold186	181398	TT	AA	AA	INTERGENIC			
SNP_65228_A_181400	NW_004515738.1	scaffold186	181400	GG	CC	CC	INTERGENIC			
SNP_65229_A_219373	NW_004515738.1	scaffold186	219373	TT	CC	CC	INTERGENIC			
SNP_65230_A_223097	NW_004515738.1	scaffold186	223097	CC	TT	TT	INTERGENIC			
SNP_65231_A_234789	NW_004515738.1	scaffold186	234789	TT	CC	CC	INTERGENIC			
SNP_65232_A_299943	NW_004515738.1	scaffold186	299943	AA	GG	GG	INTERGENIC			
SNP_65233_A_301981	NW_004515738.1	scaffold186	301981	TT	GG	GG	INTERGENIC			
SNP_65234_A_304782	NW_004515738.1	scaffold186	304782	CC	TT	TT	INTERGENIC			
SNP_65235_A_307266	NW_004515738.1	scaffold186	307266	TT	CC	CC	INTERGENIC			
SNP_65236_A_307472	NW_004515738.1	scaffold186	307472	AA	GG	GG	INTERGENIC			
SNP_65237_A_307483	NW_004515738.1	scaffold186	307483	AA	GG	GG	INTERGENIC			
SNP_65238_A_311428	NW_004515738.1	scaffold186	311428	GG	AA	AA	INTERGENIC			
SNP_65239_A_311432	NW_004515738.1	scaffold186	311432	CC	TT	TT	INTERGENIC			
SNP_65240_A_311433	NW_004515738.1	scaffold186	311433	AA	GG	GG	INTERGENIC			
SNP_65241_A_311439	NW_004515738.1	scaffold186	311439	CC	GG	GG	INTERGENIC			
SNP_65242_A_327255	NW_004515738.1	scaffold186	327255	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65243_A_349630	NW_004515738.1	scaffold186	349630	GG	AA	AA	INTERGENIC		
SNP_65244_A_349659	NW_004515738.1	scaffold186	349659	GG	AA	AA	INTERGENIC		
SNP_65245_A_351436	NW_004515738.1	scaffold186	351436	TT	CC	CC	INTERGENIC		
SNP_65246_A_351440	NW_004515738.1	scaffold186	351440	TT	GG	GG	INTERGENIC		
SNP_65247_A_351515	NW_004515738.1	scaffold186	351515	TT	AA	AA	INTERGENIC		
SNP_65248_A_360100	NW_004515738.1	scaffold186	360100	AA	CC	CC	INTERGENIC		
SNP_65249_A_370709	NW_004515738.1	scaffold186	370709	AA	TT	TT	INTERGENIC		
SNP_65250_A_370714	NW_004515738.1	scaffold186	370714	AA	TT	TT	INTERGENIC		
SNP_65251_A_370716	NW_004515738.1	scaffold186	370716	AA	TT	TT	INTERGENIC		
SNP_65252_A_370725	NW_004515738.1	scaffold186	370725	AA	GG	GG	INTERGENIC		
SNP_65253_A_371227	NW_004515738.1	scaffold186	371227	GG	AA	AA	INTERGENIC		
SNP_65254_A_383488	NW_004515738.1	scaffold186	383488	GG	TT	TT	INTERGENIC		
SNP_65255_A_449625	NW_004515738.1	scaffold186	449625	TT	CC	CC	INTERGENIC		
SNP_65256_A_9862	NW_004515740.1	scaffold193	9862	TT	CC	CC	INTERGENIC		
SNP_65257_A_32828	NW_004515740.1	scaffold193	32828	AA	TT	TT	URR	101495305	50S ribosomal protein L1, chloroplastic
SNP_65258_A_63823	NW_004515740.1	scaffold193	63823	GG	AA	AA	INTERGENIC		
SNP_65260_A_64856	NW_004515740.1	scaffold193	64856	AA	GG	GG	INTERGENIC		
SNP_65261_A_65818	NW_004515740.1	scaffold193	65818	GG	TT	TT	INTERGENIC		
SNP_65262_A_65826	NW_004515740.1	scaffold193	65826	CC	AA	AA	INTERGENIC		
SNP_65263_A_79469	NW_004515740.1	scaffold193	79469	AA	CC	CC	URR	101498029	Unknown function
SNP_65264_A_79478	NW_004515740.1	scaffold193	79478	TT	CC	CC	URR	101498029	Unknown function
SNP_65265_A_79545	NW_004515740.1	scaffold193	79545	AA	GG	GG	URR	101498029	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65267_A_79661	NW_004515740.1	scaffold193	79661	TT	AA	AA	URR	101498029	Unknown function
SNP_65269_A_79774	NW_004515740.1	scaffold193	79774	TT	CC	CC	URR	101498029	Unknown function
SNP_65270_A_79830	NW_004515740.1	scaffold193	79830	GG	AA	AA	URR	101498029	Unknown function
SNP_65271_A_80018	NW_004515740.1	scaffold193	80018	AA	CC	CC	URR	101498029	Unknown function
SNP_65272_A_86146	NW_004515740.1	scaffold193	86146	AA	TT	TT	INTERGENIC		
SNP_65273_A_160487	NW_004515740.1	scaffold193	160487	GG	CC	CC	INTERGENIC		
SNP_65274_A_165204	NW_004515740.1	scaffold193	165204	TT	CC	CC	INTRON	101499656	Unknown function
SNP_65275_A_165205	NW_004515740.1	scaffold193	165205	TT	CC	CC	INTRON	101499656	Unknown function
SNP_65276_A_168471	NW_004515740.1	scaffold193	168471	GG	TT	TT	INTRON	101499656	Unknown function
SNP_65277_A_201639	NW_004515740.1	scaffold193	201639	CC	AA	AA	INTERGENIC		
SNP_65278_A_201979	NW_004515740.1	scaffold193	201979	TT	CC	CC	INTERGENIC		
SNP_65279_A_208333	NW_004515740.1	scaffold193	208333	TT	CC	CC	INTERGENIC		
SNP_65280_A_208361	NW_004515740.1	scaffold193	208361	GG	AA	AA	INTERGENIC		
SNP_65281_A_208382	NW_004515740.1	scaffold193	208382	TT	CC	CC	INTERGENIC		
SNP_65282_A_208386	NW_004515740.1	scaffold193	208386	TT	CC	CC	INTERGENIC		
SNP_65283_A_208486	NW_004515740.1	scaffold193	208486	AA	GG	GG	INTERGENIC		
SNP_65285_A_208727	NW_004515740.1	scaffold193	208727	CC	GG	GG	INTERGENIC		
SNP_65286_A_208773	NW_004515740.1	scaffold193	208773	GG	CC	CC	INTERGENIC		
SNP_65287_A_213066	NW_004515740.1	scaffold193	213066	GG	AA	AA	INTERGENIC		
SNP_65289_A_255505	NW_004515740.1	scaffold193	255505	TT	CC	CC	INTRON	101497375	uncharacterized LOC101497375
SNP_65290_A_255506	NW_004515740.1	scaffold193	255506	CC	TT	TT	INTRON	101497375	uncharacterized LOC101497375
SNP_65291_A_272179	NW_004515740.1	scaffold193	272179	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65292_A_280341	NW_004515740.1	scaffold193	280341	CC	TT	TT	INTERGENIC			
SNP_65293_A_280669	NW_004515740.1	scaffold193	280669	GG	TT	TT	INTERGENIC			
SNP_65294_A_280671	NW_004515740.1	scaffold193	280671	TT	CC	CC	INTERGENIC			
SNP_65295_A_289769	NW_004515740.1	scaffold193	289769	AA	GG	GG	INTERGENIC			
SNP_65296_A_295630	NW_004515740.1	scaffold193	295630	AA	GG	GG	INTERGENIC			
SNP_65297_A_295646	NW_004515740.1	scaffold193	295646	AA	GG	GG	INTERGENIC			
SNP_65298_A_295650	NW_004515740.1	scaffold193	295650	TT	CC	CC	INTERGENIC			
SNP_65299_A_295654	NW_004515740.1	scaffold193	295654	TT	GG	GG	INTERGENIC			
SNP_65300_A_295685	NW_004515740.1	scaffold193	295685	GG	AA	AA	INTERGENIC			
SNP_65301_A_295711	NW_004515740.1	scaffold193	295711	GG	AA	AA	INTERGENIC			
SNP_65302_A_295754	NW_004515740.1	scaffold193	295754	AA	TT	TT	INTERGENIC			
SNP_65303_A_295778	NW_004515740.1	scaffold193	295778	GG	TT	TT	INTERGENIC			
SNP_65304_A_295781	NW_004515740.1	scaffold193	295781	GG	AA	AA	INTERGENIC			
SNP_65305_A_295813	NW_004515740.1	scaffold193	295813	CC	TT	TT	INTERGENIC			
SNP_65306_A_295859	NW_004515740.1	scaffold193	295859	CC	TT	TT	INTERGENIC			
SNP_65307_A_296010	NW_004515740.1	scaffold193	296010	GG	AA	AA	INTERGENIC			
SNP_65308_A_296025	NW_004515740.1	scaffold193	296025	GG	AA	AA	INTERGENIC			
SNP_65309_A_296250	NW_004515740.1	scaffold193	296250	AA	GG	GG	INTERGENIC			
SNP_65310_A_305615	NW_004515740.1	scaffold193	305615	TT	CC	CC	INTERGENIC			
SNP_65311_A_310216	NW_004515740.1	scaffold193	310216	CC	GG	GG	INTERGENIC			
SNP_65312_A_310232	NW_004515740.1	scaffold193	310232	CC	TT	TT	INTERGENIC			
SNP_65313_A_310239	NW_004515740.1	scaffold193	310239	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65314_A_310256	NW_004515740.1	scaffold193	310256	CC	TT	TT	INTERGENIC			
SNP_65315_A_310275	NW_004515740.1	scaffold193	310275	TT	GG	GG	INTERGENIC			
SNP_65316_A_310279	NW_004515740.1	scaffold193	310279	AA	CC	CC	INTERGENIC			
SNP_65317_A_310350	NW_004515740.1	scaffold193	310350	GG	AA	AA	INTERGENIC			
SNP_65318_A_310385	NW_004515740.1	scaffold193	310385	TT	CC	CC	INTERGENIC			
SNP_65319_A_310386	NW_004515740.1	scaffold193	310386	TT	GG	GG	INTERGENIC			
SNP_65320_A_310478	NW_004515740.1	scaffold193	310478	CC	AA	AA	INTERGENIC			
SNP_65321_A_310514	NW_004515740.1	scaffold193	310514	TT	AA	AA	INTERGENIC			
SNP_65322_A_316225	NW_004515740.1	scaffold193	316225	TT	GG	GG	INTERGENIC			
SNP_65323_A_316668	NW_004515740.1	scaffold193	316668	CC	TT	TT	INTERGENIC			
SNP_65324_A_316891	NW_004515740.1	scaffold193	316891	TT	CC	CC	INTERGENIC			
SNP_65325_A_318918	NW_004515740.1	scaffold193	318918	GG	AA	AA	INTERGENIC			
SNP_65326_A_352794	NW_004515740.1	scaffold193	352794	TT	CC	CC	INTERGENIC			
SNP_65328_A_417526	NW_004515740.1	scaffold193	417526	TT	GG	GG	INTERGENIC			
SNP_65329_A_417537	NW_004515740.1	scaffold193	417537	TT	GG	GG	INTERGENIC			
SNP_65330_A_417551	NW_004515740.1	scaffold193	417551	AA	GG	GG	INTERGENIC			
SNP_65331_A_417566	NW_004515740.1	scaffold193	417566	TT	GG	GG	INTERGENIC			
SNP_65332_A_417900	NW_004515740.1	scaffold193	417900	TT	CC	CC	INTERGENIC			
SNP_65333_A_426292	NW_004515740.1	scaffold193	426292	GG	AA	AA	INTERGENIC			
SNP_65334_A_426293	NW_004515740.1	scaffold193	426293	GG	AA	AA	INTERGENIC			
SNP_65335_A_426537	NW_004515740.1	scaffold193	426537	CC	TT	TT	INTERGENIC			
SNP_65336_A_426549	NW_004515740.1	scaffold193	426549	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65337_A_426554	NW_004515740.1	scaffold193	426554	AA	GG	GG	INTERGENIC			
SNP_65338_A_428970	NW_004515740.1	scaffold193	428970	TT	CC	CC	INTERGENIC			
SNP_65339_A_428972	NW_004515740.1	scaffold193	428972	GG	TT	TT	INTERGENIC			
SNP_65340_A_429014	NW_004515740.1	scaffold193	429014	TT	GG	GG	INTERGENIC			
SNP_65341_A_429247	NW_004515740.1	scaffold193	429247	CC	TT	TT	INTERGENIC			
SNP_65342_A_429251	NW_004515740.1	scaffold193	429251	AA	GG	GG	INTERGENIC			
SNP_65343_A_7881	NW_004515743.1	scaffold196	7881	GG	CC	CC	INTERGENIC			
SNP_65344_A_25130	NW_004515744.1	scaffold198	25130	CC	TT	TT	INTERGENIC			
SNP_65345_A_46177	NW_004515744.1	scaffold198	46177	CC	TT	TT	INTERGENIC			
SNP_65346_A_54436	NW_004515744.1	scaffold198	54436	TT	CC	CC	INTERGENIC			
SNP_65347_A_54441	NW_004515744.1	scaffold198	54441	AA	TT	TT	INTERGENIC			
SNP_65348_A_54480	NW_004515744.1	scaffold198	54480	TT	AA	AA	INTERGENIC			
SNP_65349_A_54484	NW_004515744.1	scaffold198	54484	AA	GG	GG	INTERGENIC			
SNP_65350_A_54486	NW_004515744.1	scaffold198	54486	TT	AA	AA	INTERGENIC			
SNP_65351_A_54777	NW_004515744.1	scaffold198	54777	TT	CC	CC	INTERGENIC			
SNP_65352_A_56495	NW_004515744.1	scaffold198	56495	TT	CC	CC	INTERGENIC			
SNP_65353_A_56496	NW_004515744.1	scaffold198	56496	CC	GG	GG	INTERGENIC			
SNP_65354_A_56529	NW_004515744.1	scaffold198	56529	AA	GG	GG	INTERGENIC			
SNP_65355_A_56548	NW_004515744.1	scaffold198	56548	TT	CC	CC	INTERGENIC			
SNP_65356_A_56586	NW_004515744.1	scaffold198	56586	GG	AA	AA	INTERGENIC			
SNP_65358_A_98211	NW_004515744.1	scaffold198	98211	TT	AA	AA	INTERGENIC			
SNP_65360_A_177412	NW_004515744.1	scaffold198	177412	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65361_A_183104	NW_004515744.1	scaffold198	183104	TT	GG	GG	INTERGENIC			
SNP_65362_A_183433	NW_004515744.1	scaffold198	183433	GG	AA	AA	INTERGENIC			
SNP_65363_A_188102	NW_004515744.1	scaffold198	188102	GG	AA	AA	INTERGENIC			
SNP_65364_A_188108	NW_004515744.1	scaffold198	188108	CC	TT	TT	INTERGENIC			
SNP_65365_A_188113	NW_004515744.1	scaffold198	188113	TT	CC	CC	INTERGENIC			
SNP_65366_A_235764	NW_004515744.1	scaffold198	235764	GG	TT	TT	INTERGENIC			
SNP_65367_A_251488	NW_004515744.1	scaffold198	251488	AA	GG	GG	INTERGENIC			
SNP_65368_A_251556	NW_004515744.1	scaffold198	251556	CC	TT	TT	INTERGENIC			
SNP_65369_A_251569	NW_004515744.1	scaffold198	251569	AA	GG	GG	INTERGENIC			
SNP_65370_A_267507	NW_004515744.1	scaffold198	267507	CC	TT	TT	INTERGENIC			
SNP_65371_A_267578	NW_004515744.1	scaffold198	267578	GG	AA	AA	INTERGENIC			
SNP_65372_A_267592	NW_004515744.1	scaffold198	267592	AA	TT	TT	INTERGENIC			
SNP_65374_A_267640	NW_004515744.1	scaffold198	267640	TT	AA	AA	INTERGENIC			
SNP_65375_A_267647	NW_004515744.1	scaffold198	267647	CC	TT	TT	INTERGENIC			
SNP_65376_A_271179	NW_004515744.1	scaffold198	271179	GG	AA	AA	INTERGENIC			
SNP_65378_A_287031	NW_004515744.1	scaffold198	287031	TT	GG	GG	URR	101507364	cationic amino acid transporter 1-like	
SNP_65379_A_318351	NW_004515744.1	scaffold198	318351	TT	CC	CC	INTRON	101507677	Unknown function	
SNP_65380_A_330416	NW_004515744.1	scaffold198	330416	TT	CC	CC	INTERGENIC			
SNP_65381_A_330678	NW_004515744.1	scaffold198	330678	TT	GG	GG	INTERGENIC			
SNP_65382_A_330749	NW_004515744.1	scaffold198	330749	GG	AA	AA	INTERGENIC			
SNP_65383_A_335540	NW_004515744.1	scaffold198	335540	TT	GG	GG	INTERGENIC			
SNP_65384_A_335588	NW_004515744.1	scaffold198	335588	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65385_A_335739	NW_004515744.1	scaffold198	335739	TT	GG	GG	INTERGENIC			
SNP_65386_A_335815	NW_004515744.1	scaffold198	335815	GG	AA	AA	INTERGENIC			
SNP_65388_A_337543	NW_004515744.1	scaffold198	337543	AA	GG	GG	INTERGENIC			
SNP_65389_A_348233	NW_004515744.1	scaffold198	348233	GG	CC	CC	INTERGENIC			
SNP_65390_A_416319	NW_004515744.1	scaffold198	416319	AA	GG	GG	INTERGENIC			
SNP_65391_A_420138	NW_004515744.1	scaffold198	420138	GG	AA	AA	INTERGENIC			
SNP_65392_A_420152	NW_004515744.1	scaffold198	420152	CC	TT	TT	INTERGENIC			
SNP_65393_A_420695	NW_004515744.1	scaffold198	420695	CC	AA	AA	INTERGENIC			
SNP_65394_A_420716	NW_004515744.1	scaffold198	420716	TT	GG	GG	INTERGENIC			
SNP_65395_A_420806	NW_004515744.1	scaffold198	420806	AA	TT	TT	INTERGENIC			
SNP_65396_A_420807	NW_004515744.1	scaffold198	420807	AA	TT	TT	INTERGENIC			
SNP_65397_A_421018	NW_004515744.1	scaffold198	421018	AA	GG	GG	INTERGENIC			
SNP_65398_A_421030	NW_004515744.1	scaffold198	421030	TT	CC	CC	INTERGENIC			
SNP_65399_A_421049	NW_004515744.1	scaffold198	421049	AA	TT	TT	INTERGENIC			
SNP_65400_A_421052	NW_004515744.1	scaffold198	421052	TT	CC	CC	INTERGENIC			
SNP_65401_A_421134	NW_004515744.1	scaffold198	421134	CC	TT	TT	INTERGENIC			
SNP_65402_A_423018	NW_004515744.1	scaffold198	423018	GG	AA	AA	INTERGENIC			
SNP_65403_A_423239	NW_004515744.1	scaffold198	423239	AA	GG	GG	INTERGENIC			
SNP_65404_A_423475	NW_004515744.1	scaffold198	423475	TT	CC	CC	INTERGENIC			
SNP_65405_A_444825	NW_004515744.1	scaffold198	444825	AA	GG	GG	INTERGENIC			
SNP_65406_A_444833	NW_004515744.1	scaffold198	444833	GG	AA	AA	INTERGENIC			
SNP_65407_A_472975	NW_004515744.1	scaffold198	472975	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65408_A_473058	NW_004515744.1	scaffold198	473058	TT	CC	CC	INTERGENIC			
SNP_65409_A_473092	NW_004515744.1	scaffold198	473092	AA	GG	GG	INTERGENIC			
SNP_65410_A_473337	NW_004515744.1	scaffold198	473337	TT	GG	GG	INTERGENIC			
SNP_65411_A_490922	NW_004515744.1	scaffold198	490922	AA	TT	TT	INTERGENIC			
SNP_65412_A_500211	NW_004515744.1	scaffold198	500211	GG	AA	AA	INTERGENIC			
SNP_65413_A_501036	NW_004515744.1	scaffold198	501036	GG	TT	TT	INTERGENIC			
SNP_65414_A_501433	NW_004515744.1	scaffold198	501433	TT	AA	AA	INTERGENIC			
SNP_65415_A_501474	NW_004515744.1	scaffold198	501474	CC	AA	AA	INTERGENIC			
SNP_65417_A_501524	NW_004515744.1	scaffold198	501524	GG	TT	TT	INTERGENIC			
SNP_65418_A_501550	NW_004515744.1	scaffold198	501550	TT	CC	CC	INTERGENIC			
SNP_65419_A_501606	NW_004515744.1	scaffold198	501606	AA	GG	GG	INTERGENIC			
SNP_65420_A_501738	NW_004515744.1	scaffold198	501738	AA	TT	TT	INTERGENIC			
SNP_65421_A_509784	NW_004515744.1	scaffold198	509784	GG	AA	AA	INTERGENIC			
SNP_65422_A_510161	NW_004515744.1	scaffold198	510161	AA	GG	GG	INTERGENIC			
SNP_65423_A_510249	NW_004515744.1	scaffold198	510249	AA	GG	GG	INTERGENIC			
SNP_65424_A_510286	NW_004515744.1	scaffold198	510286	GG	TT	TT	INTERGENIC			
SNP_65425_A_519772	NW_004515744.1	scaffold198	519772	AA	GG	GG	INTERGENIC			
SNP_65426_A_561491	NW_004515744.1	scaffold198	561491	TT	CC	CC	INTERGENIC			
SNP_65427_A_594049	NW_004515744.1	scaffold198	594049	AA	GG	GG	INTERGENIC			
SNP_65428_A_594109	NW_004515744.1	scaffold198	594109	GG	AA	AA	INTERGENIC			
SNP_65429_A_594305	NW_004515744.1	scaffold198	594305	GG	CC	CC	INTERGENIC			
SNP_65430_A_594306	NW_004515744.1	scaffold198	594306	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65431_A_594507	NW_004515744.1	scaffold198	594507	CC	AA	AA	INTERGENIC			
SNP_65432_A_594560	NW_004515744.1	scaffold198	594560	AA	GG	GG	INTERGENIC			
SNP_65433_A_594569	NW_004515744.1	scaffold198	594569	GG	AA	AA	INTERGENIC			
SNP_65434_A_601049	NW_004515744.1	scaffold198	601049	CC	AA	AA	INTERGENIC			
SNP_65435_A_621197	NW_004515744.1	scaffold198	621197	GG	AA	AA	INTERGENIC			
SNP_65436_A_621234	NW_004515744.1	scaffold198	621234	TT	CC	CC	INTERGENIC			
SNP_65437_A_621239	NW_004515744.1	scaffold198	621239	GG	CC	CC	INTERGENIC			
SNP_65438_A_621550	NW_004515744.1	scaffold198	621550	CC	AA	AA	INTERGENIC			
SNP_65440_A_631467	NW_004515744.1	scaffold198	631467	GG	TT	TT	INTERGENIC			
SNP_65441_A_631654	NW_004515744.1	scaffold198	631654	CC	GG	GG	INTERGENIC			
SNP_65442_A_631671	NW_004515744.1	scaffold198	631671	AA	GG	GG	INTERGENIC			
SNP_65443_A_632944	NW_004515744.1	scaffold198	632944	GG	CC	CC	INTERGENIC			
SNP_65444_A_633055	NW_004515744.1	scaffold198	633055	CC	AA	AA	INTERGENIC			
SNP_65445_A_633415	NW_004515744.1	scaffold198	633415	GG	CC	CC	INTERGENIC			
SNP_65446_A_633596	NW_004515744.1	scaffold198	633596	TT	CC	CC	INTERGENIC			
SNP_65447_A_633607	NW_004515744.1	scaffold198	633607	GG	TT	TT	INTERGENIC			
SNP_65449_A_633878	NW_004515744.1	scaffold198	633878	CC	TT	TT	INTERGENIC			
SNP_65450_A_633881	NW_004515744.1	scaffold198	633881	GG	TT	TT	INTERGENIC			
SNP_65451_A_637418	NW_004515744.1	scaffold198	637418	AA	CC	CC	INTERGENIC			
SNP_65453_A_637904	NW_004515744.1	scaffold198	637904	GG	AA	AA	INTERGENIC			
SNP_65454_A_638747	NW_004515744.1	scaffold198	638747	CC	TT	TT	INTERGENIC			
SNP_65455_A_5247	NW_004515746.1	scaffold200	5247	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65456_A_5788	NW_004515746.1	scaffold200	5788	TT	AA	AA	INTERGENIC		
SNP_65457_A_5789	NW_004515746.1	scaffold200	5789	TT	AA	AA	INTERGENIC		
SNP_65458_A_35731	NW_004515746.1	scaffold200	35731	AA	CC	CC	INTERGENIC		
SNP_65459_A_43823	NW_004515746.1	scaffold200	43823	CC	AA	AA	INTERGENIC		
SNP_65460_A_49485	NW_004515746.1	scaffold200	49485	AA	TT	TT	INTERGENIC		
SNP_65461_A_66755	NW_004515746.1	scaffold200	66755	TT	AA	AA	INTERGENIC		
SNP_65462_A_82277	NW_004515746.1	scaffold200	82277	TT	CC	CC	INTERGENIC		
SNP_65463_A_82601	NW_004515746.1	scaffold200	82601	AA	GG	GG	INTERGENIC		
SNP_65464_A_87762	NW_004515746.1	scaffold200	87762	GG	AA	AA	INTERGENIC		
SNP_65465_A_107389	NW_004515746.1	scaffold200	107389	AA	GG	GG	INTERGENIC		
SNP_65466_A_107548	NW_004515746.1	scaffold200	107548	CC	TT	TT	INTERGENIC		
SNP_65467_A_1430	NW_004515747.1	scaffold202	1430	CC	TT	TT	INTERGENIC		
SNP_65468_A_4225	NW_004515747.1	scaffold202	4225	CC	AA	AA	DRR	101410548	transfer RNA phenylalanine (anticodon GAA)
SNP_65469_A_10420	NW_004515747.1	scaffold202	10420	TT	CC	CC	INTERGENIC		
SNP_65470_A_10431	NW_004515747.1	scaffold202	10431	AA	GG	GG	INTERGENIC		
SNP_65471_A_16842	NW_004515747.1	scaffold202	16842	CC	GG	GG	INTERGENIC		
SNP_65472_A_16849	NW_004515747.1	scaffold202	16849	GG	AA	AA	INTERGENIC		
SNP_65473_A_17161	NW_004515747.1	scaffold202	17161	CC	AA	AA	INTERGENIC		
SNP_65474_A_17248	NW_004515747.1	scaffold202	17248	AA	TT	TT	INTERGENIC		
SNP_65475_A_17342	NW_004515747.1	scaffold202	17342	TT	CC	CC	INTERGENIC		
SNP_65476_A_17421	NW_004515747.1	scaffold202	17421	GG	TT	TT	INTERGENIC		
SNP_65477_A_17508	NW_004515747.1	scaffold202	17508	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65478_A_17518	NW_004515747.1	scaffold202	17518	TT	GG	GG	INTERGENIC			
SNP_65479_A_17630	NW_004515747.1	scaffold202	17630	GG	AA	AA	INTERGENIC			
SNP_65481_A_17752	NW_004515747.1	scaffold202	17752	CC	TT	TT	INTERGENIC			
SNP_65482_A_17767	NW_004515747.1	scaffold202	17767	AA	GG	GG	INTERGENIC			
SNP_65484_A_17850	NW_004515747.1	scaffold202	17850	GG	AA	AA	INTERGENIC			
SNP_65485_A_17857	NW_004515747.1	scaffold202	17857	GG	AA	AA	INTERGENIC			
SNP_65486_A_17913	NW_004515747.1	scaffold202	17913	AA	CC	CC	INTERGENIC			
SNP_65487_A_18091	NW_004515747.1	scaffold202	18091	CC	GG	GG	INTERGENIC			
SNP_65488_A_18092	NW_004515747.1	scaffold202	18092	AA	TT	TT	INTERGENIC			
SNP_65489_A_19922	NW_004515747.1	scaffold202	19922	GG	AA	AA	INTERGENIC			
SNP_65491_A_19985	NW_004515747.1	scaffold202	19985	GG	AA	AA	INTERGENIC			
SNP_65492_A_19994	NW_004515747.1	scaffold202	19994	TT	AA	AA	INTERGENIC			
SNP_65493_A_20097	NW_004515747.1	scaffold202	20097	AA	CC	CC	INTERGENIC			
SNP_65494_A_20219	NW_004515747.1	scaffold202	20219	GG	TT	TT	INTERGENIC			
SNP_65495_A_20297	NW_004515747.1	scaffold202	20297	GG	AA	AA	INTERGENIC			
SNP_65496_A_20303	NW_004515747.1	scaffold202	20303	GG	TT	TT	INTERGENIC			
SNP_65497_A_20338	NW_004515747.1	scaffold202	20338	TT	AA	AA	INTERGENIC			
SNP_65498_A_20389	NW_004515747.1	scaffold202	20389	TT	CC	CC	INTERGENIC			
SNP_65499_A_20403	NW_004515747.1	scaffold202	20403	AA	GG	GG	INTERGENIC			
SNP_65500_A_20471	NW_004515747.1	scaffold202	20471	AA	GG	GG	INTERGENIC			
SNP_65501_A_20474	NW_004515747.1	scaffold202	20474	GG	TT	TT	INTERGENIC			
SNP_65503_A_20572	NW_004515747.1	scaffold202	20572	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65504_A_20613	NW_004515747.1	scaffold202	20613	CC	TT	TT	INTERGENIC			
SNP_65505_A_20821	NW_004515747.1	scaffold202	20821	TT	AA	AA	INTERGENIC			
SNP_65506_A_20914	NW_004515747.1	scaffold202	20914	TT	CC	CC	INTERGENIC			
SNP_65507_A_20925	NW_004515747.1	scaffold202	20925	CC	TT	TT	INTERGENIC			
SNP_65508_A_20976	NW_004515747.1	scaffold202	20976	TT	AA	AA	INTERGENIC			
SNP_65509_A_21020	NW_004515747.1	scaffold202	21020	CC	TT	TT	INTERGENIC			
SNP_65510_A_21028	NW_004515747.1	scaffold202	21028	AA	GG	GG	INTERGENIC			
SNP_65511_A_22198	NW_004515747.1	scaffold202	22198	CC	TT	TT	INTERGENIC			
SNP_65514_A_22796	NW_004515747.1	scaffold202	22796	TT	GG	GG	INTERGENIC			
SNP_65515_A_22899	NW_004515747.1	scaffold202	22899	AA	TT	TT	INTERGENIC			
SNP_65516_A_22951	NW_004515747.1	scaffold202	22951	AA	TT	TT	INTERGENIC			
SNP_65517_A_23698	NW_004515747.1	scaffold202	23698	AA	GG	GG	INTERGENIC			
SNP_65518_A_23920	NW_004515747.1	scaffold202	23920	AA	CC	CC	INTERGENIC			
SNP_65519_A_24044	NW_004515747.1	scaffold202	24044	TT	CC	CC	INTERGENIC			
SNP_65520_A_24363	NW_004515747.1	scaffold202	24363	TT	GG	GG	INTERGENIC			
SNP_65521_A_24406	NW_004515747.1	scaffold202	24406	AA	GG	GG	INTERGENIC			
SNP_65522_A_24642	NW_004515747.1	scaffold202	24642	AA	GG	GG	INTERGENIC			
SNP_65523_A_24663	NW_004515747.1	scaffold202	24663	TT	CC	CC	INTERGENIC			
SNP_65524_A_24664	NW_004515747.1	scaffold202	24664	AA	GG	GG	INTERGENIC			
SNP_65525_A_24700	NW_004515747.1	scaffold202	24700	AA	GG	GG	INTERGENIC			
SNP_65526_A_24728	NW_004515747.1	scaffold202	24728	TT	CC	CC	INTERGENIC			
SNP_65527_A_24845	NW_004515747.1	scaffold202	24845	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65528_A_24878	NW_004515747.1	scaffold202	24878	GG	AA	AA	INTERGENIC			
SNP_65529_A_27514	NW_004515747.1	scaffold202	27514	CC	TT	TT	INTERGENIC			
SNP_65530_A_27575	NW_004515747.1	scaffold202	27575	AA	CC	CC	INTERGENIC			
SNP_65531_A_27629	NW_004515747.1	scaffold202	27629	GG	AA	AA	INTERGENIC			
SNP_65532_A_27674	NW_004515747.1	scaffold202	27674	GG	AA	AA	INTERGENIC			
SNP_65533_A_27675	NW_004515747.1	scaffold202	27675	CC	TT	TT	INTERGENIC			
SNP_65534_A_27684	NW_004515747.1	scaffold202	27684	TT	CC	CC	INTERGENIC			
SNP_65535_A_27769	NW_004515747.1	scaffold202	27769	GG	TT	TT	INTERGENIC			
SNP_65536_A_34949	NW_004515747.1	scaffold202	34949	CC	AA	AA	INTERGENIC			
SNP_65537_A_35665	NW_004515747.1	scaffold202	35665	CC	GG	GG	INTERGENIC			
SNP_65538_A_35778	NW_004515747.1	scaffold202	35778	CC	TT	TT	INTERGENIC			
SNP_65539_A_35834	NW_004515747.1	scaffold202	35834	AA	GG	GG	INTERGENIC			
SNP_65540_A_35907	NW_004515747.1	scaffold202	35907	AA	GG	GG	INTERGENIC			
SNP_65541_A_35941	NW_004515747.1	scaffold202	35941	CC	TT	TT	INTERGENIC			
SNP_65542_A_35976	NW_004515747.1	scaffold202	35976	AA	CC	CC	INTERGENIC			
SNP_65543_A_36173	NW_004515747.1	scaffold202	36173	GG	AA	AA	INTERGENIC			
SNP_65544_A_36332	NW_004515747.1	scaffold202	36332	CC	TT	TT	INTERGENIC			
SNP_65545_A_36463	NW_004515747.1	scaffold202	36463	CC	TT	TT	INTERGENIC			
SNP_65546_A_36503	NW_004515747.1	scaffold202	36503	GG	AA	AA	INTERGENIC			
SNP_65547_A_36549	NW_004515747.1	scaffold202	36549	TT	GG	GG	INTERGENIC			
SNP_65548_A_36619	NW_004515747.1	scaffold202	36619	GG	TT	TT	INTERGENIC			
SNP_65550_A_36855	NW_004515747.1	scaffold202	36855	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65551_A_36941	NW_004515747.1	scaffold202	36941	AA	TT	TT	INTERGENIC			
SNP_65552_A_37140	NW_004515747.1	scaffold202	37140	TT	GG	GG	INTERGENIC			
SNP_65553_A_37244	NW_004515747.1	scaffold202	37244	TT	CC	CC	INTERGENIC			
SNP_65554_A_37375	NW_004515747.1	scaffold202	37375	AA	GG	GG	INTERGENIC			
SNP_65555_A_37400	NW_004515747.1	scaffold202	37400	GG	CC	CC	INTERGENIC			
SNP_65556_A_37585	NW_004515747.1	scaffold202	37585	TT	AA	AA	INTERGENIC			
SNP_65557_A_37825	NW_004515747.1	scaffold202	37825	AA	TT	TT	INTERGENIC			
SNP_65560_A_37989	NW_004515747.1	scaffold202	37989	GG	AA	AA	INTERGENIC			
SNP_65561_A_37994	NW_004515747.1	scaffold202	37994	TT	CC	CC	INTERGENIC			
SNP_65562_A_38080	NW_004515747.1	scaffold202	38080	TT	GG	GG	INTERGENIC			
SNP_65563_A_38083	NW_004515747.1	scaffold202	38083	AA	GG	GG	INTERGENIC			
SNP_65564_A_38090	NW_004515747.1	scaffold202	38090	GG	AA	AA	INTERGENIC			
SNP_65565_A_38236	NW_004515747.1	scaffold202	38236	GG	AA	AA	INTERGENIC			
SNP_65566_A_38539	NW_004515747.1	scaffold202	38539	TT	GG	GG	INTERGENIC			
SNP_65567_A_38675	NW_004515747.1	scaffold202	38675	AA	TT	TT	INTERGENIC			
SNP_65568_A_38695	NW_004515747.1	scaffold202	38695	GG	TT	TT	INTERGENIC			
SNP_65569_A_38746	NW_004515747.1	scaffold202	38746	GG	AA	AA	INTERGENIC			
SNP_65570_A_38775	NW_004515747.1	scaffold202	38775	CC	TT	TT	INTERGENIC			
SNP_65571_A_38796	NW_004515747.1	scaffold202	38796	GG	AA	AA	INTERGENIC			
SNP_65572_A_38836	NW_004515747.1	scaffold202	38836	CC	TT	TT	INTERGENIC			
SNP_65573_A_38846	NW_004515747.1	scaffold202	38846	GG	AA	AA	INTERGENIC			
SNP_65574_A_38848	NW_004515747.1	scaffold202	38848	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65575_A_38895	NW_004515747.1	scaffold202	38895	AA	GG	GG	INTERGENIC			
SNP_65576_A_38989	NW_004515747.1	scaffold202	38989	AA	CC	CC	INTERGENIC			
SNP_65577_A_39013	NW_004515747.1	scaffold202	39013	GG	AA	AA	INTERGENIC			
SNP_65578_A_39178	NW_004515747.1	scaffold202	39178	GG	AA	AA	INTERGENIC			
SNP_65581_A_39344	NW_004515747.1	scaffold202	39344	GG	AA	AA	INTERGENIC			
SNP_65582_A_39351	NW_004515747.1	scaffold202	39351	TT	CC	CC	INTERGENIC			
SNP_65583_A_39377	NW_004515747.1	scaffold202	39377	GG	AA	AA	INTERGENIC			
SNP_65584_A_39418	NW_004515747.1	scaffold202	39418	TT	GG	GG	INTERGENIC			
SNP_65585_A_39645	NW_004515747.1	scaffold202	39645	CC	TT	TT	INTERGENIC			
SNP_65586_A_39684	NW_004515747.1	scaffold202	39684	CC	TT	TT	INTERGENIC			
SNP_65587_A_40755	NW_004515747.1	scaffold202	40755	CC	AA	AA	INTERGENIC			
SNP_65588_A_40848	NW_004515747.1	scaffold202	40848	AA	CC	CC	INTERGENIC			
SNP_65589_A_41208	NW_004515747.1	scaffold202	41208	CC	TT	TT	INTERGENIC			
SNP_65590_A_45789	NW_004515747.1	scaffold202	45789	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905	
SNP_65591_A_45848	NW_004515747.1	scaffold202	45848	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905	
SNP_65592_A_52529	NW_004515747.1	scaffold202	52529	GG	TT	TT	INTRON	101509905	uncharacterized LOC101509905	
SNP_65593_A_52542	NW_004515747.1	scaffold202	52542	GG	CC	CC	INTRON	101509905	uncharacterized LOC101509905	
SNP_65594_A_52858	NW_004515747.1	scaffold202	52858	AA	TT	TT	INTRON	101509905	uncharacterized LOC101509905	
SNP_65595_A_53336	NW_004515747.1	scaffold202	53336	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905	
SNP_65596_A_53473	NW_004515747.1	scaffold202	53473	TT	AA	AA	INTRON	101509905	uncharacterized LOC101509905	
SNP_65597_A_53503	NW_004515747.1	scaffold202	53503	TT	CC	CC	INTRON	101509905	uncharacterized LOC101509905	
SNP_65598_A_53512	NW_004515747.1	scaffold202	53512	CC	AA	AA	INTRON	101509905	uncharacterized LOC101509905	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65599_A_53522	NW_004515747.1	scaffold202	53522	GG	AA	AA	INTRON	101509905	uncharacterized LOC101509905
SNP_65600_A_53550	NW_004515747.1	scaffold202	53550	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65601_A_60969	NW_004515747.1	scaffold202	60969	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65603_A_62088	NW_004515747.1	scaffold202	62088	GG	TT	TT	SYNONYMOUS_CODING	101509905	uncharacterized LOC101509905
SNP_65604_A_62615	NW_004515747.1	scaffold202	62615	GG	AA	AA	INTRON	101509905	uncharacterized LOC101509905
SNP_65605_A_90523	NW_004515747.1	scaffold202	90523	GG	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65606_A_90597	NW_004515747.1	scaffold202	90597	GG	CC	CC	INTRON	101509905	uncharacterized LOC101509905
SNP_65607_A_90773	NW_004515747.1	scaffold202	90773	TT	CC	CC	NON_SYNONYMOUS_CODING	101509905	uncharacterized LOC101509905
SNP_65608_A_93016	NW_004515747.1	scaffold202	93016	GG	AA	AA	SYNONYMOUS_CODING	101509905	uncharacterized LOC101509905
SNP_65609_A_93081	NW_004515747.1	scaffold202	93081	GG	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65610_A_93108	NW_004515747.1	scaffold202	93108	GG	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65611_A_93142	NW_004515747.1	scaffold202	93142	AA	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65612_A_93654	NW_004515747.1	scaffold202	93654	GG	AA	AA	SYNONYMOUS_CODING	101509905	uncharacterized LOC101509905
SNP_65613_A_93702	NW_004515747.1	scaffold202	93702	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65615_A_94030	NW_004515747.1	scaffold202	94030	CC	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65616_A_94097	NW_004515747.1	scaffold202	94097	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65617_A_94235	NW_004515747.1	scaffold202	94235	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65618_A_94241	NW_004515747.1	scaffold202	94241	CC	AA	AA	INTRON	101509905	uncharacterized LOC101509905
SNP_65619_A_94318	NW_004515747.1	scaffold202	94318	GG	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65620_A_94482	NW_004515747.1	scaffold202	94482	TT	CC	CC	INTRON	101509905	uncharacterized LOC101509905
SNP_65621_A_94594	NW_004515747.1	scaffold202	94594	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65622_A_94787	NW_004515747.1	scaffold202	94787	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65623_A_94912	NW_004515747.1	scaffold202	94912	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65624_A_94918	NW_004515747.1	scaffold202	94918	CC	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65625_A_94919	NW_004515747.1	scaffold202	94919	AA	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65626_A_95070	NW_004515747.1	scaffold202	95070	TT	GG	GG	INTRON	101509905	uncharacterized LOC101509905
SNP_65627_A_95071	NW_004515747.1	scaffold202	95071	AA	CC	CC	INTRON	101509905	uncharacterized LOC101509905
SNP_65628_A_95182	NW_004515747.1	scaffold202	95182	GG	AA	AA	INTRON	101509905	uncharacterized LOC101509905
SNP_65629_A_95246	NW_004515747.1	scaffold202	95246	AA	TT	TT	INTRON	101509905	uncharacterized LOC101509905
SNP_65630_A_95276	NW_004515747.1	scaffold202	95276	TT	CC	CC	INTRON	101509905	uncharacterized LOC101509905
SNP_65631_A_95429	NW_004515747.1	scaffold202	95429	AA	GG	GG	INTERGENIC		
SNP_65632_A_95438	NW_004515747.1	scaffold202	95438	AA	GG	GG	INTERGENIC		
SNP_65633_A_95496	NW_004515747.1	scaffold202	95496	AA	GG	GG	INTERGENIC		
SNP_65634_A_95533	NW_004515747.1	scaffold202	95533	AA	GG	GG	INTERGENIC		
SNP_65635_A_95609	NW_004515747.1	scaffold202	95609	TT	CC	CC	INTERGENIC		
SNP_65636_A_95619	NW_004515747.1	scaffold202	95619	GG	AA	AA	INTERGENIC		
SNP_65637_A_95708	NW_004515747.1	scaffold202	95708	GG	AA	AA	INTERGENIC		
SNP_65638_A_95792	NW_004515747.1	scaffold202	95792	GG	AA	AA	INTERGENIC		
SNP_65639_A_95869	NW_004515747.1	scaffold202	95869	TT	CC	CC	INTERGENIC		
SNP_65640_A_95904	NW_004515747.1	scaffold202	95904	AA	GG	GG	INTERGENIC		
SNP_65641_A_95942	NW_004515747.1	scaffold202	95942	TT	CC	CC	INTERGENIC		
SNP_65642_A_96043	NW_004515747.1	scaffold202	96043	GG	AA	AA	INTERGENIC		
SNP_65643_A_96074	NW_004515747.1	scaffold202	96074	AA	GG	GG	INTERGENIC		
SNP_65644_A_96097	NW_004515747.1	scaffold202	96097	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65645_A_96140	NW_004515747.1	scaffold202	96140	TT	CC	CC	INTERGENIC			
SNP_65646_A_96281	NW_004515747.1	scaffold202	96281	AA	GG	GG	INTERGENIC			
SNP_65647_A_96333	NW_004515747.1	scaffold202	96333	AA	GG	GG	INTERGENIC			
SNP_65648_A_96363	NW_004515747.1	scaffold202	96363	GG	TT	TT	INTERGENIC			
SNP_65649_A_96394	NW_004515747.1	scaffold202	96394	AA	TT	TT	INTERGENIC			
SNP_65650_A_96397	NW_004515747.1	scaffold202	96397	AA	GG	GG	INTERGENIC			
SNP_65651_A_96444	NW_004515747.1	scaffold202	96444	AA	GG	GG	INTERGENIC			
SNP_65652_A_96456	NW_004515747.1	scaffold202	96456	CC	TT	TT	INTERGENIC			
SNP_65653_A_96532	NW_004515747.1	scaffold202	96532	TT	GG	GG	INTERGENIC			
SNP_65654_A_96580	NW_004515747.1	scaffold202	96580	GG	TT	TT	INTERGENIC			
SNP_65655_A_96589	NW_004515747.1	scaffold202	96589	TT	AA	AA	INTERGENIC			
SNP_65656_A_96614	NW_004515747.1	scaffold202	96614	TT	CC	CC	INTERGENIC			
SNP_65657_A_96868	NW_004515747.1	scaffold202	96868	CC	AA	AA	INTERGENIC			
SNP_65658_A_97636	NW_004515747.1	scaffold202	97636	AA	GG	GG	INTERGENIC			
SNP_65659_A_97768	NW_004515747.1	scaffold202	97768	CC	GG	GG	INTERGENIC			
SNP_65660_A_98607	NW_004515747.1	scaffold202	98607	GG	AA	AA	INTERGENIC			
SNP_65661_A_98848	NW_004515747.1	scaffold202	98848	CC	AA	AA	INTERGENIC			
SNP_65662_A_99123	NW_004515747.1	scaffold202	99123	TT	CC	CC	URR	101509905	uncharacterized LOC101509905	
SNP_65663_A_99208	NW_004515747.1	scaffold202	99208	CC	TT	TT	URR	101509905	uncharacterized LOC101509905	
SNP_65664_A_99273	NW_004515747.1	scaffold202	99273	GG	CC	CC	URR	101509905	uncharacterized LOC101509905	
SNP_65666_A_99849	NW_004515747.1	scaffold202	99849	AA	TT	TT	DRR	101510224	sm-like protein LSM3A	
SNP_65667_A_100132	NW_004515747.1	scaffold202	100132	CC	TT	TT	DRR	101510224	sm-like protein LSM3A	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65668_A_100138	NW_004515747.1	scaffold202	100138	GG	AA	AA	DRR	101510224	sm-like protein LSM3A
SNP_65669_A_100186	NW_004515747.1	scaffold202	100186	TT	CC	CC	DRR	101510224	sm-like protein LSM3A
SNP_65670_A_100216	NW_004515747.1	scaffold202	100216	AA	TT	TT	DRR	101510224	sm-like protein LSM3A
SNP_65671_A_100359	NW_004515747.1	scaffold202	100359	CC	AA	AA	URR	101509905	uncharacterized LOC101509905
SNP_65673_A_100722	NW_004515747.1	scaffold202	100722	AA	TT	TT	URR	101509905	uncharacterized LOC101509905
SNP_65674_A_103956	NW_004515747.1	scaffold202	103956	GG	AA	AA	URR	101510224	sm-like protein LSM3A
SNP_65676_A_104037	NW_004515747.1	scaffold202	104037	AA	TT	TT	URR	101510224	sm-like protein LSM3A
SNP_65677_A_104043	NW_004515747.1	scaffold202	104043	TT	AA	AA	URR	101510224	sm-like protein LSM3A
SNP_65678_A_104044	NW_004515747.1	scaffold202	104044	TT	AA	AA	URR	101510224	sm-like protein LSM3A
SNP_65679_A_104045	NW_004515747.1	scaffold202	104045	AA	TT	TT	URR	101510224	sm-like protein LSM3A
SNP_65680_A_104082	NW_004515747.1	scaffold202	104082	CC	TT	TT	URR	101510224	sm-like protein LSM3A
SNP_65681_A_104187	NW_004515747.1	scaffold202	104187	AA	CC	CC	URR	101510224	sm-like protein LSM3A
SNP_65683_A_104407	NW_004515747.1	scaffold202	104407	GG	AA	AA	URR	101510224	sm-like protein LSM3A
SNP_65684_A_104669	NW_004515747.1	scaffold202	104669	TT	GG	GG	URR	101510224	sm-like protein LSM3A
SNP_65685_A_104714	NW_004515747.1	scaffold202	104714	AA	TT	TT	URR	101510224	sm-like protein LSM3A
SNP_65687_A_23583	NW_004515748.1	scaffold204	23583	CC	TT	TT	INTERGENIC		
SNP_65688_A_23814	NW_004515748.1	scaffold204	23814	GG	AA	AA	INTERGENIC		
SNP_65689_A_23859	NW_004515748.1	scaffold204	23859	AA	CC	CC	INTERGENIC		
SNP_65690_A_52617	NW_004515748.1	scaffold204	52617	GG	CC	CC	INTERGENIC		
SNP_65691_A_52640	NW_004515748.1	scaffold204	52640	TT	CC	CC	INTERGENIC		
SNP_65692_A_52648	NW_004515748.1	scaffold204	52648	AA	GG	GG	INTERGENIC		
SNP_65693_A_31778	NW_004515749.1	scaffold205	31778	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65695_A_40896	NW_004515749.1	scaffold205	40896	TT	CC	CC	INTERGENIC			
SNP_65696_A_40964	NW_004515749.1	scaffold205	40964	TT	CC	CC	INTERGENIC			
SNP_65697_A_40983	NW_004515749.1	scaffold205	40983	AA	GG	GG	INTERGENIC			
SNP_65698_A_40993	NW_004515749.1	scaffold205	40993	AA	TT	TT	INTERGENIC			
SNP_65699_A_41016	NW_004515749.1	scaffold205	41016	AA	GG	GG	INTERGENIC			
SNP_65700_A_41020	NW_004515749.1	scaffold205	41020	GG	AA	AA	INTERGENIC			
SNP_65701_A_41078	NW_004515749.1	scaffold205	41078	CC	TT	TT	INTERGENIC			
SNP_65702_A_41600	NW_004515749.1	scaffold205	41600	CC	TT	TT	INTERGENIC			
SNP_65703_A_41634	NW_004515749.1	scaffold205	41634	AA	GG	GG	INTERGENIC			
SNP_65704_A_41688	NW_004515749.1	scaffold205	41688	AA	CC	CC	INTERGENIC			
SNP_65705_A_41708	NW_004515749.1	scaffold205	41708	TT	CC	CC	INTERGENIC			
SNP_65706_A_41758	NW_004515749.1	scaffold205	41758	TT	CC	CC	INTERGENIC			
SNP_65707_A_41997	NW_004515749.1	scaffold205	41997	TT	CC	CC	INTERGENIC			
SNP_65708_A_42023	NW_004515749.1	scaffold205	42023	CC	TT	TT	INTERGENIC			
SNP_65709_A_42048	NW_004515749.1	scaffold205	42048	GG	AA	AA	INTERGENIC			
SNP_65710_A_42052	NW_004515749.1	scaffold205	42052	TT	CC	CC	INTERGENIC			
SNP_65711_A_42248	NW_004515749.1	scaffold205	42248	CC	TT	TT	INTERGENIC			
SNP_65712_A_42290	NW_004515749.1	scaffold205	42290	AA	GG	GG	INTERGENIC			
SNP_65713_A_44973	NW_004515749.1	scaffold205	44973	CC	TT	TT	INTERGENIC			
SNP_65714_A_46569	NW_004515749.1	scaffold205	46569	AA	GG	GG	INTERGENIC			
SNP_65716_A_75575	NW_004515749.1	scaffold205	75575	AA	GG	GG	INTERGENIC			
SNP_65717_A_75592	NW_004515749.1	scaffold205	75592	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65719_A_112657	NW_004515749.1	scaffold205	112657	TT	CC	CC	INTERGENIC			
SNP_65720_A_113012	NW_004515749.1	scaffold205	113012	GG	TT	TT	INTERGENIC			
SNP_65721_A_113401	NW_004515749.1	scaffold205	113401	AA	TT	TT	INTERGENIC			
SNP_65722_A_113402	NW_004515749.1	scaffold205	113402	AA	GG	GG	INTERGENIC			
SNP_65723_A_114640	NW_004515749.1	scaffold205	114640	AA	GG	GG	INTERGENIC			
SNP_65724_A_115058	NW_004515749.1	scaffold205	115058	GG	AA	AA	INTERGENIC			
SNP_65725_A_115766	NW_004515749.1	scaffold205	115766	CC	TT	TT	INTERGENIC			
SNP_65726_A_115776	NW_004515749.1	scaffold205	115776	TT	CC	CC	INTERGENIC			
SNP_65727_A_121372	NW_004515749.1	scaffold205	121372	CC	TT	TT	INTERGENIC			
SNP_65728_A_149768	NW_004515749.1	scaffold205	149768	TT	CC	CC	INTERGENIC			
SNP_65729_A_149888	NW_004515749.1	scaffold205	149888	GG	AA	AA	INTERGENIC			
SNP_65730_A_150565	NW_004515749.1	scaffold205	150565	TT	CC	CC	INTERGENIC			
SNP_65731_A_195021	NW_004515749.1	scaffold205	195021	TT	CC	CC	INTERGENIC			
SNP_65732_A_195042	NW_004515749.1	scaffold205	195042	AA	CC	CC	INTERGENIC			
SNP_65733_A_195057	NW_004515749.1	scaffold205	195057	AA	CC	CC	INTERGENIC			
SNP_65734_A_195305	NW_004515749.1	scaffold205	195305	GG	AA	AA	INTERGENIC			
SNP_65735_A_195346	NW_004515749.1	scaffold205	195346	AA	GG	GG	INTERGENIC			
SNP_65736_A_195378	NW_004515749.1	scaffold205	195378	GG	AA	AA	INTERGENIC			
SNP_65737_A_198934	NW_004515749.1	scaffold205	198934	CC	GG	GG	INTERGENIC			
SNP_65738_A_198972	NW_004515749.1	scaffold205	198972	AA	GG	GG	INTERGENIC			
SNP_65739_A_199165	NW_004515749.1	scaffold205	199165	AA	TT	TT	INTERGENIC			
SNP_65740_A_199233	NW_004515749.1	scaffold205	199233	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65741_A_199237	NW_004515749.1	scaffold205	199237	TT	CC	CC	INTERGENIC		
SNP_65742_A_199440	NW_004515749.1	scaffold205	199440	TT	CC	CC	DRR	101513132	Unknown function
SNP_65743_A_199501	NW_004515749.1	scaffold205	199501	TT	AA	AA	DRR	101513132	Unknown function
SNP_65744_A_199534	NW_004515749.1	scaffold205	199534	GG	TT	TT	DRR	101513132	Unknown function
SNP_65745_A_214037	NW_004515749.1	scaffold205	214037	GG	AA	AA	NON_SYNONYMOUS_CODING	101513458	Unknown function
SNP_65746_A_5098	NW_004515750.1	scaffold206	5098	GG	AA	AA	INTERGENIC		
SNP_65747_A_59691	NW_004515750.1	scaffold206	59691	CC	TT	TT	INTERGENIC		
SNP_65748_A_60027	NW_004515750.1	scaffold206	60027	GG	AA	AA	INTERGENIC		
SNP_65749_A_62134	NW_004515750.1	scaffold206	62134	AA	GG	GG	INTERGENIC		
SNP_65750_A_62141	NW_004515750.1	scaffold206	62141	AA	GG	GG	INTERGENIC		
SNP_65751_A_67992	NW_004515750.1	scaffold206	67992	GG	TT	TT	INTERGENIC		
SNP_65752_A_68193	NW_004515750.1	scaffold206	68193	GG	AA	AA	INTERGENIC		
SNP_65753_A_68231	NW_004515750.1	scaffold206	68231	GG	CC	CC	INTERGENIC		
SNP_65754_A_68241	NW_004515750.1	scaffold206	68241	AA	GG	GG	INTERGENIC		
SNP_65755_A_68268	NW_004515750.1	scaffold206	68268	CC	TT	TT	INTERGENIC		
SNP_65756_A_68395	NW_004515750.1	scaffold206	68395	AA	CC	CC	INTERGENIC		
SNP_65757_A_68481	NW_004515750.1	scaffold206	68481	AA	TT	TT	INTERGENIC		
SNP_65758_A_74171	NW_004515750.1	scaffold206	74171	TT	CC	CC	INTERGENIC		
SNP_65759_A_82630	NW_004515750.1	scaffold206	82630	CC	TT	TT	INTERGENIC		
SNP_65760_A_89931	NW_004515750.1	scaffold206	89931	AA	GG	GG	INTERGENIC		
SNP_65761_A_115275	NW_004515750.1	scaffold206	115275	TT	GG	GG	URR	101515195	Unknown function
SNP_65762_A_115461	NW_004515750.1	scaffold206	115461	TT	AA	AA	URR	101515195	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65763_A_115824	NW_004515750.1	scaffold206	115824	TT	CC	CC	URR	101515195	Unknown function
SNP_65764_A_120157	NW_004515750.1	scaffold206	120157	GG	AA	AA	INTERGENIC		
SNP_65765_A_120240	NW_004515750.1	scaffold206	120240	CC	GG	GG	INTERGENIC		
SNP_65766_A_120247	NW_004515750.1	scaffold206	120247	GG	CC	CC	INTERGENIC		
SNP_65767_A_137073	NW_004515750.1	scaffold206	137073	TT	AA	AA	INTERGENIC		
SNP_65768_A_137803	NW_004515750.1	scaffold206	137803	AA	GG	GG	INTERGENIC		
SNP_65769_A_139924	NW_004515750.1	scaffold206	139924	AA	GG	GG	INTERGENIC		
SNP_65770_A_139932	NW_004515750.1	scaffold206	139932	TT	GG	GG	INTERGENIC		
SNP_65771_A_139990	NW_004515750.1	scaffold206	139990	CC	TT	TT	INTERGENIC		
SNP_65772_A_140006	NW_004515750.1	scaffold206	140006	TT	GG	GG	INTERGENIC		
SNP_65773_A_140017	NW_004515750.1	scaffold206	140017	AA	GG	GG	INTERGENIC		
SNP_65774_A_140018	NW_004515750.1	scaffold206	140018	GG	AA	AA	INTERGENIC		
SNP_65776_A_140105	NW_004515750.1	scaffold206	140105	TT	CC	CC	INTERGENIC		
SNP_65777_A_140159	NW_004515750.1	scaffold206	140159	CC	TT	TT	INTERGENIC		
SNP_65778_A_140181	NW_004515750.1	scaffold206	140181	TT	CC	CC	INTERGENIC		
SNP_65779_A_140210	NW_004515750.1	scaffold206	140210	CC	TT	TT	INTERGENIC		
SNP_65780_A_140237	NW_004515750.1	scaffold206	140237	AA	GG	GG	INTERGENIC		
SNP_65781_A_152402	NW_004515750.1	scaffold206	152402	GG	TT	TT	URR	101410590	transfer RNA aspartic acid (anticodon GUC)
SNP_65782_A_157228	NW_004515750.1	scaffold206	157228	CC	AA	AA	INTERGENIC		
SNP_65783_A_159719	NW_004515750.1	scaffold206	159719	AA	CC	CC	INTERGENIC		
SNP_65784_A_159734	NW_004515750.1	scaffold206	159734	TT	AA	AA	INTERGENIC		
SNP_65785_A_160148	NW_004515750.1	scaffold206	160148	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65786_A_160177	NW_004515750.1	scaffold206	160177	AA	GG	GG	INTERGENIC		
SNP_65787_A_160189	NW_004515750.1	scaffold206	160189	GG	AA	AA	INTERGENIC		
SNP_65789_A_166683	NW_004515750.1	scaffold206	166683	TT	AA	AA	INTERGENIC		
SNP_65790_A_175519	NW_004515750.1	scaffold206	175519	TT	AA	AA	DRR	101514656	uncharacterized LOC101514656
SNP_65791_A_175581	NW_004515750.1	scaffold206	175581	TT	AA	AA	DRR	101514656	uncharacterized LOC101514656
SNP_65792_A_175594	NW_004515750.1	scaffold206	175594	GG	AA	AA	DRR	101514656	uncharacterized LOC101514656
SNP_65793_A_175760	NW_004515750.1	scaffold206	175760	TT	CC	CC	DRR	101514656	uncharacterized LOC101514656
SNP_65794_A_175767	NW_004515750.1	scaffold206	175767	AA	TT	TT	DRR	101514656	uncharacterized LOC101514656
SNP_65795_A_175775	NW_004515750.1	scaffold206	175775	CC	TT	TT	DRR	101514656	uncharacterized LOC101514656
SNP_65797_A_189547	NW_004515750.1	scaffold206	189547	AA	TT	TT	INTERGENIC		
SNP_65798_A_189582	NW_004515750.1	scaffold206	189582	AA	GG	GG	INTERGENIC		
SNP_65799_A_190545	NW_004515750.1	scaffold206	190545	CC	TT	TT	INTERGENIC		
SNP_65800_A_190577	NW_004515750.1	scaffold206	190577	CC	TT	TT	INTERGENIC		
SNP_65801_A_190582	NW_004515750.1	scaffold206	190582	CC	TT	TT	INTERGENIC		
SNP_65802_A_190583	NW_004515750.1	scaffold206	190583	GG	AA	AA	INTERGENIC		
SNP_65804_A_195548	NW_004515750.1	scaffold206	195548	AA	TT	TT	INTRON	101488949	uncharacterized LOC101488949
SNP_65805_A_199511	NW_004515750.1	scaffold206	199511	TT	CC	CC	INTRON	101488949	uncharacterized LOC101488949
SNP_65806_A_233701	NW_004515750.1	scaffold206	233701	CC	GG	GG	INTERGENIC		
SNP_65807_A_234390	NW_004515750.1	scaffold206	234390	GG	TT	TT	INTERGENIC		
SNP_65808_A_234946	NW_004515750.1	scaffold206	234946	TT	CC	CC	INTERGENIC		
SNP_65809_A_234963	NW_004515750.1	scaffold206	234963	CC	TT	TT	INTERGENIC		
SNP_65810_A_235021	NW_004515750.1	scaffold206	235021	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65811_A_238554	NW_004515750.1	scaffold206	238554	TT	CC	CC	INTERGENIC			
SNP_65812_A_238563	NW_004515750.1	scaffold206	238563	CC	TT	TT	INTERGENIC			
SNP_65813_A_239006	NW_004515750.1	scaffold206	239006	GG	AA	AA	INTERGENIC			
SNP_65814_A_247485	NW_004515750.1	scaffold206	247485	TT	GG	GG	INTERGENIC			
SNP_65815_A_272965	NW_004515750.1	scaffold206	272965	TT	CC	CC	INTERGENIC			
SNP_65816_A_2783	NW_004515751.1	scaffold207	2783	GG	CC	CC	INTERGENIC			
SNP_65817_A_5987	NW_004515751.1	scaffold207	5987	TT	GG	GG	INTERGENIC			
SNP_65818_A_6042	NW_004515751.1	scaffold207	6042	TT	CC	CC	INTERGENIC			
SNP_65819_A_6236	NW_004515751.1	scaffold207	6236	AA	GG	GG	INTERGENIC			
SNP_65820_A_6242	NW_004515751.1	scaffold207	6242	TT	CC	CC	INTERGENIC			
SNP_65821_A_6251	NW_004515751.1	scaffold207	6251	TT	GG	GG	INTERGENIC			
SNP_65823_A_6961	NW_004515751.1	scaffold207	6961	CC	AA	AA	INTERGENIC			
SNP_65824_A_7484	NW_004515751.1	scaffold207	7484	GG	TT	TT	INTERGENIC			
SNP_65825_A_7760	NW_004515751.1	scaffold207	7760	TT	CC	CC	INTERGENIC			
SNP_65826_A_8056	NW_004515751.1	scaffold207	8056	AA	GG	GG	INTERGENIC			
SNP_65827_A_8215	NW_004515751.1	scaffold207	8215	AA	GG	GG	INTERGENIC			
SNP_65828_A_8217	NW_004515751.1	scaffold207	8217	GG	TT	TT	INTERGENIC			
SNP_65829_A_8439	NW_004515751.1	scaffold207	8439	TT	CC	CC	INTERGENIC			
SNP_65830_A_9466	NW_004515751.1	scaffold207	9466	CC	TT	TT	INTERGENIC			
SNP_65831_A_9513	NW_004515751.1	scaffold207	9513	AA	GG	GG	INTERGENIC			
SNP_65832_A_9580	NW_004515751.1	scaffold207	9580	AA	CC	CC	INTERGENIC			
SNP_65833_A_9640	NW_004515751.1	scaffold207	9640	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65834_A_9831	NW_004515751.1	scaffold207	9831	TT	AA	AA	INTERGENIC		
SNP_65835_A_9943	NW_004515751.1	scaffold207	9943	AA	GG	GG	INTERGENIC		
SNP_65836_A_9946	NW_004515751.1	scaffold207	9946	TT	AA	AA	INTERGENIC		
SNP_65837_A_16123	NW_004515752.1	scaffold208	16123	AA	GG	GG	INTERGENIC		
SNP_65838_A_20315	NW_004515752.1	scaffold208	20315	GG	AA	AA	URR	101490460	non-specific lipid-transfer protein A-like
SNP_65839_A_20982	NW_004515752.1	scaffold208	20982	CC	TT	TT	INTERGENIC		
SNP_65840_A_21035	NW_004515752.1	scaffold208	21035	AA	GG	GG	INTERGENIC		
SNP_65841_A_22008	NW_004515752.1	scaffold208	22008	CC	GG	GG	DRR	101490781	non-specific lipid-transfer protein A-like
SNP_65842_A_22034	NW_004515752.1	scaffold208	22034	CC	TT	TT	DRR	101490781	non-specific lipid-transfer protein A-like
SNP_65843_A_22035	NW_004515752.1	scaffold208	22035	TT	AA	AA	DRR	101490781	non-specific lipid-transfer protein A-like
SNP_65844_A_22037	NW_004515752.1	scaffold208	22037	TT	AA	AA	DRR	101490781	non-specific lipid-transfer protein A-like
SNP_65845_A_23932	NW_004515752.1	scaffold208	23932	CC	TT	TT	URR	101490781	non-specific lipid-transfer protein A-like
SNP_65846_A_38863	NW_004515752.1	scaffold208	38863	TT	AA	AA	INTERGENIC		
SNP_65847_A_49698	NW_004515752.1	scaffold208	49698	AA	CC	CC	INTERGENIC		
SNP_65849_A_105496	NW_004515752.1	scaffold208	105496	AA	TT	TT	INTERGENIC		
SNP_65850_A_119629	NW_004515752.1	scaffold208	119629	TT	CC	CC	INTERGENIC		
SNP_65851_A_126343	NW_004515752.1	scaffold208	126343	GG	TT	TT	INTERGENIC		
SNP_65852_A_127392	NW_004515752.1	scaffold208	127392	TT	CC	CC	INTERGENIC		
SNP_65853_A_127452	NW_004515752.1	scaffold208	127452	CC	TT	TT	INTERGENIC		
SNP_65854_A_127758	NW_004515752.1	scaffold208	127758	CC	AA	AA	INTERGENIC		
SNP_65855_A_131463	NW_004515752.1	scaffold208	131463	TT	CC	CC	INTERGENIC		
SNP_65857_A_131610	NW_004515752.1	scaffold208	131610	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65858_A_152327	NW_004515752.1	scaffold208	152327	AA	GG	GG	INTERGENIC			
SNP_65859_A_155613	NW_004515752.1	scaffold208	155613	AA	GG	GG	INTERGENIC			
SNP_65860_A_161040	NW_004515752.1	scaffold208	161040	TT	CC	CC	INTERGENIC			
SNP_65861_A_173958	NW_004515752.1	scaffold208	173958	GG	AA	AA	INTERGENIC			
SNP_65862_A_174028	NW_004515752.1	scaffold208	174028	CC	TT	TT	INTERGENIC			
SNP_65864_A_174362	NW_004515752.1	scaffold208	174362	GG	AA	AA	INTERGENIC			
SNP_65865_A_174372	NW_004515752.1	scaffold208	174372	TT	CC	CC	INTERGENIC			
SNP_65866_A_195121	NW_004515752.1	scaffold208	195121	CC	TT	TT	URR	101492062	non-specific lipid-transfer protein A-like	
SNP_65867_A_253989	NW_004515752.1	scaffold208	253989	AA	TT	TT	INTERGENIC			
SNP_65868_A_254337	NW_004515752.1	scaffold208	254337	GG	TT	TT	INTERGENIC			
SNP_65869_A_312686	NW_004515752.1	scaffold208	312686	CC	AA	AA	INTERGENIC			
SNP_65870_A_320480	NW_004515752.1	scaffold208	320480	CC	TT	TT	INTERGENIC			
SNP_65871_A_355167	NW_004515752.1	scaffold208	355167	AA	TT	TT	INTERGENIC			
SNP_65872_A_356801	NW_004515752.1	scaffold208	356801	GG	AA	AA	INTERGENIC			
SNP_65873_A_446749	NW_004515752.1	scaffold208	446749	CC	TT	TT	INTERGENIC			
SNP_65874_A_553	NW_004515753.1	scaffold209	553	TT	AA	AA	INTERGENIC			
SNP_65875_A_2295	NW_004515753.1	scaffold209	2295	CC	TT	TT	INTERGENIC			
SNP_65876_A_2314	NW_004515753.1	scaffold209	2314	GG	AA	AA	INTERGENIC			
SNP_65877_A_2595	NW_004515753.1	scaffold209	2595	GG	CC	CC	INTERGENIC			
SNP_65878_A_2625	NW_004515753.1	scaffold209	2625	GG	TT	TT	INTERGENIC			
SNP_65879_A_2674	NW_004515753.1	scaffold209	2674	AA	CC	CC	INTERGENIC			
SNP_65880_A_5620	NW_004515753.1	scaffold209	5620	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65881_A_5629	NW_004515753.1	scaffold209	5629	GG	CC	CC	INTERGENIC			
SNP_65882_A_5768	NW_004515753.1	scaffold209	5768	AA	GG	GG	INTERGENIC			
SNP_65883_A_5770	NW_004515753.1	scaffold209	5770	TT	AA	AA	INTERGENIC			
SNP_65884_A_5826	NW_004515753.1	scaffold209	5826	AA	TT	TT	INTERGENIC			
SNP_65885_A_5958	NW_004515753.1	scaffold209	5958	TT	CC	CC	INTERGENIC			
SNP_65886_A_6040	NW_004515753.1	scaffold209	6040	AA	TT	TT	INTERGENIC			
SNP_65887_A_6138	NW_004515753.1	scaffold209	6138	GG	CC	CC	INTERGENIC			
SNP_65888_A_6210	NW_004515753.1	scaffold209	6210	AA	CC	CC	INTERGENIC			
SNP_65889_A_6213	NW_004515753.1	scaffold209	6213	TT	CC	CC	INTERGENIC			
SNP_65890_A_6218	NW_004515753.1	scaffold209	6218	CC	GG	GG	INTERGENIC			
SNP_65891_A_6318	NW_004515753.1	scaffold209	6318	GG	AA	AA	INTERGENIC			
SNP_65892_A_7506	NW_004515753.1	scaffold209	7506	TT	CC	CC	INTERGENIC			
SNP_65893_A_7526	NW_004515753.1	scaffold209	7526	AA	TT	TT	INTERGENIC			
SNP_65894_A_7754	NW_004515753.1	scaffold209	7754	GG	CC	CC	INTERGENIC			
SNP_65895_A_7759	NW_004515753.1	scaffold209	7759	AA	CC	CC	INTERGENIC			
SNP_65896_A_7789	NW_004515753.1	scaffold209	7789	GG	TT	TT	INTERGENIC			
SNP_65897_A_7999	NW_004515753.1	scaffold209	7999	TT	CC	CC	INTERGENIC			
SNP_65898_A_61108	NW_004515753.1	scaffold209	61108	TT	CC	CC	INTERGENIC			
SNP_65899_A_76470	NW_004515753.1	scaffold209	76470	AA	TT	TT	INTERGENIC			
SNP_65900_A_78021	NW_004515753.1	scaffold209	78021	GG	AA	AA	INTERGENIC			
SNP_65901_A_78030	NW_004515753.1	scaffold209	78030	TT	CC	CC	INTERGENIC			
SNP_65902_A_78034	NW_004515753.1	scaffold209	78034	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65903_A_78037	NW_004515753.1	scaffold209	78037	TT	CC	CC	INTERGENIC			
SNP_65904_A_78039	NW_004515753.1	scaffold209	78039	TT	AA	AA	INTERGENIC			
SNP_65905_A_79274	NW_004515753.1	scaffold209	79274	TT	AA	AA	INTERGENIC			
SNP_65906_A_79521	NW_004515753.1	scaffold209	79521	TT	CC	CC	INTERGENIC			
SNP_65907_A_89506	NW_004515753.1	scaffold209	89506	CC	AA	AA	INTERGENIC			
SNP_65908_A_92709	NW_004515753.1	scaffold209	92709	CC	TT	TT	INTERGENIC			
SNP_65909_A_96671	NW_004515753.1	scaffold209	96671	CC	AA	AA	INTERGENIC			
SNP_65910_A_108932	NW_004515753.1	scaffold209	108932	CC	TT	TT	INTERGENIC			
SNP_65911_A_114124	NW_004515753.1	scaffold209	114124	AA	CC	CC	INTERGENIC			
SNP_65912_A_114144	NW_004515753.1	scaffold209	114144	CC	GG	GG	INTERGENIC			
SNP_65913_A_138858	NW_004515753.1	scaffold209	138858	AA	TT	TT	INTERGENIC			
SNP_65914_A_139293	NW_004515753.1	scaffold209	139293	AA	GG	GG	INTERGENIC			
SNP_65915_A_145473	NW_004515753.1	scaffold209	145473	AA	GG	GG	INTERGENIC			
SNP_65916_A_145551	NW_004515753.1	scaffold209	145551	GG	TT	TT	INTERGENIC			
SNP_65917_A_145588	NW_004515753.1	scaffold209	145588	AA	CC	CC	INTERGENIC			
SNP_65918_A_164104	NW_004515753.1	scaffold209	164104	TT	AA	AA	INTERGENIC			
SNP_65919_A_198596	NW_004515753.1	scaffold209	198596	GG	AA	AA	INTERGENIC			
SNP_65920_A_198613	NW_004515753.1	scaffold209	198613	AA	TT	TT	INTERGENIC			
SNP_65921_A_222904	NW_004515753.1	scaffold209	222904	TT	CC	CC	INTERGENIC			
SNP_65922_A_258003	NW_004515753.1	scaffold209	258003	GG	TT	TT	INTERGENIC			
SNP_65923_A_258324	NW_004515753.1	scaffold209	258324	GG	AA	AA	INTERGENIC			
SNP_65924_A_264627	NW_004515753.1	scaffold209	264627	AA	GG	GG	SYNONYMOUS_CODING	101496178	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_65925_A_265468	NW_004515753.1	scaffold209	265468	TT	GG	GG	INTRON	101496178	Unknown function
SNP_65926_A_329420	NW_004515753.1	scaffold209	329420	GG	AA	AA	INTERGENIC		
SNP_65927_A_329436	NW_004515753.1	scaffold209	329436	GG	AA	AA	INTERGENIC		
SNP_65928_A_329439	NW_004515753.1	scaffold209	329439	CC	AA	AA	INTERGENIC		
SNP_65929_A_329440	NW_004515753.1	scaffold209	329440	AA	CC	CC	INTERGENIC		
SNP_65930_A_329486	NW_004515753.1	scaffold209	329486	TT	AA	AA	INTERGENIC		
SNP_65931_A_329508	NW_004515753.1	scaffold209	329508	AA	TT	TT	INTERGENIC		
SNP_65932_A_329565	NW_004515753.1	scaffold209	329565	GG	TT	TT	INTERGENIC		
SNP_65933_A_329582	NW_004515753.1	scaffold209	329582	GG	TT	TT	INTERGENIC		
SNP_65934_A_329606	NW_004515753.1	scaffold209	329606	AA	CC	CC	INTERGENIC		
SNP_65935_A_329607	NW_004515753.1	scaffold209	329607	GG	TT	TT	INTERGENIC		
SNP_65936_A_329915	NW_004515753.1	scaffold209	329915	TT	GG	GG	INTERGENIC		
SNP_65937_A_329916	NW_004515753.1	scaffold209	329916	GG	AA	AA	INTERGENIC		
SNP_65938_A_329954	NW_004515753.1	scaffold209	329954	TT	AA	AA	INTERGENIC		
SNP_65939_A_330112	NW_004515753.1	scaffold209	330112	AA	CC	CC	INTERGENIC		
SNP_65940_A_344769	NW_004515753.1	scaffold209	344769	GG	TT	TT	INTERGENIC		
SNP_65941_A_345077	NW_004515753.1	scaffold209	345077	TT	CC	CC	INTERGENIC		
SNP_65942_A_345109	NW_004515753.1	scaffold209	345109	AA	GG	GG	INTERGENIC		
SNP_65943_A_345154	NW_004515753.1	scaffold209	345154	AA	GG	GG	INTERGENIC		
SNP_65944_A_345174	NW_004515753.1	scaffold209	345174	CC	GG	GG	INTERGENIC		
SNP_65945_A_345190	NW_004515753.1	scaffold209	345190	GG	TT	TT	INTERGENIC		
SNP_65946_A_345278	NW_004515753.1	scaffold209	345278	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65947_A_345303	NW_004515753.1	scaffold209	345303	GG	AA	AA	INTERGENIC			
SNP_65948_A_345316	NW_004515753.1	scaffold209	345316	TT	CC	CC	INTERGENIC			
SNP_65949_A_345348	NW_004515753.1	scaffold209	345348	AA	GG	GG	INTERGENIC			
SNP_65950_A_345410	NW_004515753.1	scaffold209	345410	AA	GG	GG	INTERGENIC			
SNP_65951_A_345413	NW_004515753.1	scaffold209	345413	GG	AA	AA	INTERGENIC			
SNP_65952_A_345509	NW_004515753.1	scaffold209	345509	CC	AA	AA	INTERGENIC			
SNP_65953_A_345560	NW_004515753.1	scaffold209	345560	AA	TT	TT	INTERGENIC			
SNP_65954_A_345582	NW_004515753.1	scaffold209	345582	GG	TT	TT	INTERGENIC			
SNP_65955_A_345612	NW_004515753.1	scaffold209	345612	CC	AA	AA	INTERGENIC			
SNP_65956_A_345659	NW_004515753.1	scaffold209	345659	TT	AA	AA	INTERGENIC			
SNP_65957_A_345718	NW_004515753.1	scaffold209	345718	GG	TT	TT	INTERGENIC			
SNP_65958_A_345822	NW_004515753.1	scaffold209	345822	AA	CC	CC	INTERGENIC			
SNP_65959_A_358106	NW_004515753.1	scaffold209	358106	AA	GG	GG	INTERGENIC			
SNP_65960_A_358158	NW_004515753.1	scaffold209	358158	GG	AA	AA	INTERGENIC			
SNP_65961_A_358193	NW_004515753.1	scaffold209	358193	CC	TT	TT	INTERGENIC			
SNP_65962_A_358200	NW_004515753.1	scaffold209	358200	GG	AA	AA	INTERGENIC			
SNP_65963_A_358249	NW_004515753.1	scaffold209	358249	TT	AA	AA	INTERGENIC			
SNP_65964_A_358351	NW_004515753.1	scaffold209	358351	AA	GG	GG	INTERGENIC			
SNP_65965_A_358390	NW_004515753.1	scaffold209	358390	TT	GG	GG	INTERGENIC			
SNP_65966_A_358478	NW_004515753.1	scaffold209	358478	TT	GG	GG	INTERGENIC			
SNP_65967_A_358511	NW_004515753.1	scaffold209	358511	GG	AA	AA	INTERGENIC			
SNP_65968_A_378604	NW_004515753.1	scaffold209	378604	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65969_A_378610	NW_004515753.1	scaffold209	378610	AA	CC	CC	INTERGENIC			
SNP_65970_A_378780	NW_004515753.1	scaffold209	378780	CC	GG	GG	INTERGENIC			
SNP_65971_A_378946	NW_004515753.1	scaffold209	378946	CC	TT	TT	INTERGENIC			
SNP_65972_A_379013	NW_004515753.1	scaffold209	379013	TT	CC	CC	INTERGENIC			
SNP_65973_A_31548	NW_004515754.1	scaffold210	31548	AA	GG	GG	INTERGENIC			
SNP_65974_A_31555	NW_004515754.1	scaffold210	31555	AA	GG	GG	INTERGENIC			
SNP_65975_A_31634	NW_004515754.1	scaffold210	31634	TT	AA	AA	INTERGENIC			
SNP_65976_A_31649	NW_004515754.1	scaffold210	31649	TT	CC	CC	INTERGENIC			
SNP_65977_A_31654	NW_004515754.1	scaffold210	31654	AA	GG	GG	INTERGENIC			
SNP_65979_A_31728	NW_004515754.1	scaffold210	31728	TT	CC	CC	INTERGENIC			
SNP_65980_A_31830	NW_004515754.1	scaffold210	31830	CC	GG	GG	INTERGENIC			
SNP_65981_A_31831	NW_004515754.1	scaffold210	31831	AA	GG	GG	INTERGENIC			
SNP_65982_A_31854	NW_004515754.1	scaffold210	31854	TT	AA	AA	INTERGENIC			
SNP_65983_A_31856	NW_004515754.1	scaffold210	31856	AA	GG	GG	INTERGENIC			
SNP_65984_A_31883	NW_004515754.1	scaffold210	31883	TT	CC	CC	INTERGENIC			
SNP_65985_A_32424	NW_004515754.1	scaffold210	32424	CC	AA	AA	INTERGENIC			
SNP_65987_A_87547	NW_004515754.1	scaffold210	87547	TT	GG	GG	INTERGENIC			
SNP_65988_A_95493	NW_004515754.1	scaffold210	95493	AA	TT	TT	INTERGENIC			
SNP_65989_A_95848	NW_004515754.1	scaffold210	95848	TT	AA	AA	DRR	101498030	Unknown function	
SNP_65990_A_95856	NW_004515754.1	scaffold210	95856	TT	CC	CC	DRR	101498030	Unknown function	
SNP_65991_A_95912	NW_004515754.1	scaffold210	95912	TT	GG	GG	DRR	101498030	Unknown function	
SNP_65992_A_95913	NW_004515754.1	scaffold210	95913	TT	AA	AA	DRR	101498030	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_65993_A_191197	NW_004515754.1	scaffold210	191197	CC	TT	TT	INTERGENIC			
SNP_65994_A_191273	NW_004515754.1	scaffold210	191273	AA	GG	GG	INTERGENIC			
SNP_65995_A_191292	NW_004515754.1	scaffold210	191292	AA	GG	GG	INTERGENIC			
SNP_65996_A_192378	NW_004515754.1	scaffold210	192378	AA	GG	GG	INTERGENIC			
SNP_65997_A_192667	NW_004515754.1	scaffold210	192667	TT	CC	CC	INTERGENIC			
SNP_65998_A_192670	NW_004515754.1	scaffold210	192670	TT	CC	CC	INTERGENIC			
SNP_65999_A_192697	NW_004515754.1	scaffold210	192697	TT	CC	CC	INTERGENIC			
SNP_66000_A_192712	NW_004515754.1	scaffold210	192712	TT	GG	GG	INTERGENIC			
SNP_66001_A_192734	NW_004515754.1	scaffold210	192734	AA	GG	GG	INTERGENIC			
SNP_66002_A_192791	NW_004515754.1	scaffold210	192791	TT	CC	CC	INTERGENIC			
SNP_66003_A_192822	NW_004515754.1	scaffold210	192822	GG	AA	AA	INTERGENIC			
SNP_66004_A_192825	NW_004515754.1	scaffold210	192825	AA	TT	TT	INTERGENIC			
SNP_66005_A_192867	NW_004515754.1	scaffold210	192867	AA	GG	GG	INTERGENIC			
SNP_66006_A_234011	NW_004515754.1	scaffold210	234011	TT	GG	GG	INTERGENIC			
SNP_66007_A_256465	NW_004515754.1	scaffold210	256465	GG	AA	AA	INTERGENIC			
SNP_66008_A_269377	NW_004515754.1	scaffold210	269377	AA	GG	GG	INTERGENIC			
SNP_66009_A_269379	NW_004515754.1	scaffold210	269379	AA	GG	GG	INTERGENIC			
SNP_66010_A_298803	NW_004515754.1	scaffold210	298803	GG	AA	AA	INTERGENIC			
SNP_66011_A_298816	NW_004515754.1	scaffold210	298816	AA	GG	GG	INTERGENIC			
SNP_66012_A_298817	NW_004515754.1	scaffold210	298817	TT	AA	AA	INTERGENIC			
SNP_66013_A_298818	NW_004515754.1	scaffold210	298818	TT	AA	AA	INTERGENIC			
SNP_66015_A_299118	NW_004515754.1	scaffold210	299118	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66017_A_300815	NW_004515754.1	scaffold210	300815	CC	GG	GG	INTERGENIC			
SNP_66018_A_302438	NW_004515754.1	scaffold210	302438	GG	AA	AA	INTERGENIC			
SNP_66019_A_343872	NW_004515754.1	scaffold210	343872	CC	GG	GG	INTERGENIC			
SNP_66020_A_345205	NW_004515754.1	scaffold210	345205	GG	AA	AA	INTERGENIC			
SNP_66021_A_345233	NW_004515754.1	scaffold210	345233	GG	AA	AA	INTERGENIC			
SNP_66022_A_382104	NW_004515754.1	scaffold210	382104	CC	AA	AA	INTERGENIC			
SNP_66023_A_388211	NW_004515754.1	scaffold210	388211	AA	GG	GG	INTERGENIC			
SNP_66024_A_388266	NW_004515754.1	scaffold210	388266	CC	TT	TT	INTERGENIC			
SNP_66026_A_429654	NW_004515754.1	scaffold210	429654	AA	GG	GG	INTERGENIC			
SNP_66027_A_429663	NW_004515754.1	scaffold210	429663	TT	AA	AA	INTERGENIC			
SNP_66028_A_429715	NW_004515754.1	scaffold210	429715	CC	TT	TT	INTERGENIC			
SNP_66029_A_429731	NW_004515754.1	scaffold210	429731	AA	CC	CC	INTERGENIC			
SNP_66030_A_429752	NW_004515754.1	scaffold210	429752	AA	GG	GG	INTERGENIC			
SNP_66031_A_429757	NW_004515754.1	scaffold210	429757	TT	CC	CC	INTERGENIC			
SNP_66032_A_429784	NW_004515754.1	scaffold210	429784	AA	TT	TT	INTERGENIC			
SNP_66033_A_429788	NW_004515754.1	scaffold210	429788	CC	GG	GG	INTERGENIC			
SNP_66034_A_429794	NW_004515754.1	scaffold210	429794	TT	GG	GG	INTERGENIC			
SNP_66035_A_513583	NW_004515754.1	scaffold210	513583	TT	GG	GG	INTERGENIC			
SNP_66036_A_513599	NW_004515754.1	scaffold210	513599	CC	TT	TT	INTERGENIC			
SNP_66037_A_513661	NW_004515754.1	scaffold210	513661	AA	GG	GG	INTERGENIC			
SNP_66038_A_513681	NW_004515754.1	scaffold210	513681	TT	AA	AA	INTERGENIC			
SNP_66039_A_529625	NW_004515754.1	scaffold210	529625	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66041_A_572907	NW_004515754.1	scaffold210	572907	CC	TT	TT	INTERGENIC			
SNP_66042_A_572925	NW_004515754.1	scaffold210	572925	GG	TT	TT	INTERGENIC			
SNP_66043_A_572975	NW_004515754.1	scaffold210	572975	TT	CC	CC	INTERGENIC			
SNP_66044_A_573013	NW_004515754.1	scaffold210	573013	AA	GG	GG	INTERGENIC			
SNP_66045_A_576672	NW_004515754.1	scaffold210	576672	CC	AA	AA	INTERGENIC			
SNP_66046_A_576694	NW_004515754.1	scaffold210	576694	TT	GG	GG	INTERGENIC			
SNP_66047_A_576711	NW_004515754.1	scaffold210	576711	AA	CC	CC	INTERGENIC			
SNP_66048_A_576766	NW_004515754.1	scaffold210	576766	TT	AA	AA	INTERGENIC			
SNP_66049_A_576855	NW_004515754.1	scaffold210	576855	CC	TT	TT	INTERGENIC			
SNP_66050_A_576909	NW_004515754.1	scaffold210	576909	GG	CC	CC	INTERGENIC			
SNP_66051_A_576950	NW_004515754.1	scaffold210	576950	GG	AA	AA	INTERGENIC			
SNP_66052_A_577006	NW_004515754.1	scaffold210	577006	TT	AA	AA	INTERGENIC			
SNP_66053_A_577019	NW_004515754.1	scaffold210	577019	GG	TT	TT	INTERGENIC			
SNP_66054_A_577028	NW_004515754.1	scaffold210	577028	AA	TT	TT	INTERGENIC			
SNP_66056_A_577402	NW_004515754.1	scaffold210	577402	AA	GG	GG	INTERGENIC			
SNP_66057_A_577466	NW_004515754.1	scaffold210	577466	AA	GG	GG	INTERGENIC			
SNP_66058_A_577491	NW_004515754.1	scaffold210	577491	GG	AA	AA	INTERGENIC			
SNP_66059_A_577591	NW_004515754.1	scaffold210	577591	GG	AA	AA	INTERGENIC			
SNP_66060_A_577641	NW_004515754.1	scaffold210	577641	AA	CC	CC	INTERGENIC			
SNP_66061_A_577677	NW_004515754.1	scaffold210	577677	GG	AA	AA	INTERGENIC			
SNP_66062_A_577698	NW_004515754.1	scaffold210	577698	GG	AA	AA	INTERGENIC			
SNP_66063_A_577781	NW_004515754.1	scaffold210	577781	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66064_A_580337	NW_004515754.1	scaffold210	580337	CC	GG	GG	DRR	101500309	Unknown function
SNP_66065_A_580628	NW_004515754.1	scaffold210	580628	TT	AA	AA	DRR	101500309	Unknown function
SNP_66066_A_580670	NW_004515754.1	scaffold210	580670	CC	AA	AA	DRR	101500309	Unknown function
SNP_66067_A_620807	NW_004515754.1	scaffold210	620807	GG	TT	TT	INTERGENIC		
SNP_66068_A_620819	NW_004515754.1	scaffold210	620819	TT	CC	CC	INTERGENIC		
SNP_66069_A_621139	NW_004515754.1	scaffold210	621139	TT	GG	GG	INTERGENIC		
SNP_66070_A_621563	NW_004515754.1	scaffold210	621563	CC	AA	AA	INTERGENIC		
SNP_66071_A_621606	NW_004515754.1	scaffold210	621606	TT	CC	CC	INTERGENIC		
SNP_66072_A_621614	NW_004515754.1	scaffold210	621614	AA	GG	GG	INTERGENIC		
SNP_66073_A_621645	NW_004515754.1	scaffold210	621645	AA	GG	GG	INTERGENIC		
SNP_66074_A_621857	NW_004515754.1	scaffold210	621857	TT	AA	AA	INTERGENIC		
SNP_66075_A_622528	NW_004515754.1	scaffold210	622528	GG	CC	CC	INTERGENIC		
SNP_66076_A_623751	NW_004515754.1	scaffold210	623751	TT	AA	AA	INTERGENIC		
SNP_66077_A_3652	NW_004515755.1	scaffold212	3652	CC	AA	AA	INTERGENIC		
SNP_66078_A_8739	NW_004515755.1	scaffold212	8739	CC	GG	GG	INTERGENIC		
SNP_66079_A_8808	NW_004515755.1	scaffold212	8808	CC	TT	TT	INTERGENIC		
SNP_66080_A_9052	NW_004515755.1	scaffold212	9052	TT	GG	GG	INTERGENIC		
SNP_66081_A_9132	NW_004515755.1	scaffold212	9132	AA	GG	GG	INTERGENIC		
SNP_66082_A_40380	NW_004515755.1	scaffold212	40380	AA	GG	GG	INTERGENIC		
SNP_66083_A_45770	NW_004515755.1	scaffold212	45770	AA	GG	GG	INTERGENIC		
SNP_66084_A_64573	NW_004515755.1	scaffold212	64573	CC	GG	GG	INTERGENIC		
SNP_66085_A_64609	NW_004515755.1	scaffold212	64609	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66086_A_66275	NW_004515755.1	scaffold212	66275	TT	CC	CC	INTERGENIC			
SNP_66087_A_83918	NW_004515755.1	scaffold212	83918	CC	AA	AA	INTERGENIC			
SNP_66088_A_83920	NW_004515755.1	scaffold212	83920	AA	GG	GG	INTERGENIC			
SNP_66089_A_87652	NW_004515755.1	scaffold212	87652	AA	CC	CC	INTERGENIC			
SNP_66090_A_88055	NW_004515755.1	scaffold212	88055	AA	GG	GG	INTERGENIC			
SNP_66091_A_101260	NW_004515755.1	scaffold212	101260	CC	AA	AA	INTERGENIC			
SNP_66093_A_161438	NW_004515755.1	scaffold212	161438	AA	CC	CC	INTERGENIC			
SNP_66094_A_161447	NW_004515755.1	scaffold212	161447	CC	TT	TT	INTERGENIC			
SNP_66095_A_161458	NW_004515755.1	scaffold212	161458	AA	GG	GG	INTERGENIC			
SNP_66096_A_161490	NW_004515755.1	scaffold212	161490	TT	GG	GG	INTERGENIC			
SNP_66097_A_180582	NW_004515755.1	scaffold212	180582	CC	AA	AA	INTERGENIC			
SNP_66099_A_180832	NW_004515755.1	scaffold212	180832	CC	TT	TT	INTERGENIC			
SNP_66100_A_180938	NW_004515755.1	scaffold212	180938	TT	GG	GG	INTERGENIC			
SNP_66101_A_180981	NW_004515755.1	scaffold212	180981	TT	AA	AA	INTERGENIC			
SNP_66102_A_181056	NW_004515755.1	scaffold212	181056	CC	AA	AA	INTERGENIC			
SNP_66103_A_181153	NW_004515755.1	scaffold212	181153	CC	AA	AA	INTERGENIC			
SNP_66104_A_181362	NW_004515755.1	scaffold212	181362	CC	TT	TT	INTERGENIC			
SNP_66105_A_181367	NW_004515755.1	scaffold212	181367	AA	TT	TT	INTERGENIC			
SNP_66106_A_183238	NW_004515755.1	scaffold212	183238	AA	GG	GG	INTERGENIC			
SNP_66107_A_186371	NW_004515755.1	scaffold212	186371	CC	TT	TT	INTERGENIC			
SNP_66108_A_207339	NW_004515755.1	scaffold212	207339	TT	CC	CC	INTERGENIC			
SNP_66109_A_207477	NW_004515755.1	scaffold212	207477	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66110_A_207758	NW_004515755.1	scaffold212	207758	GG	AA	AA	INTERGENIC			
SNP_66111_A_207809	NW_004515755.1	scaffold212	207809	TT	CC	CC	INTERGENIC			
SNP_66112_A_207838	NW_004515755.1	scaffold212	207838	TT	CC	CC	INTERGENIC			
SNP_66113_A_209695	NW_004515755.1	scaffold212	209695	TT	CC	CC	INTERGENIC			
SNP_66114_A_215710	NW_004515755.1	scaffold212	215710	GG	TT	TT	INTERGENIC			
SNP_66115_A_216105	NW_004515755.1	scaffold212	216105	TT	CC	CC	INTERGENIC			
SNP_66116_A_216116	NW_004515755.1	scaffold212	216116	AA	GG	GG	INTERGENIC			
SNP_66117_A_253417	NW_004515755.1	scaffold212	253417	GG	AA	AA	INTERGENIC			
SNP_66118_A_296366	NW_004515755.1	scaffold212	296366	GG	TT	TT	INTERGENIC			
SNP_66119_A_296972	NW_004515755.1	scaffold212	296972	AA	GG	GG	INTERGENIC			
SNP_66120_A_332844	NW_004515755.1	scaffold212	332844	AA	CC	CC	INTERGENIC			
SNP_66121_A_333315	NW_004515755.1	scaffold212	333315	CC	TT	TT	INTERGENIC			
SNP_66122_A_353924	NW_004515755.1	scaffold212	353924	CC	AA	AA	INTERGENIC			
SNP_66123_A_353931	NW_004515755.1	scaffold212	353931	AA	TT	TT	INTERGENIC			
SNP_66124_A_354322	NW_004515755.1	scaffold212	354322	AA	GG	GG	INTERGENIC			
SNP_66125_A_356364	NW_004515755.1	scaffold212	356364	AA	CC	CC	INTERGENIC			
SNP_66126_A_356394	NW_004515755.1	scaffold212	356394	TT	CC	CC	INTERGENIC			
SNP_66127_A_356470	NW_004515755.1	scaffold212	356470	GG	CC	CC	INTERGENIC			
SNP_66128_A_356490	NW_004515755.1	scaffold212	356490	AA	CC	CC	INTERGENIC			
SNP_66129_A_356527	NW_004515755.1	scaffold212	356527	AA	TT	TT	INTERGENIC			
SNP_66130_A_356531	NW_004515755.1	scaffold212	356531	AA	GG	GG	INTERGENIC			
SNP_66132_A_356587	NW_004515755.1	scaffold212	356587	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66134_A_356814	NW_004515755.1	scaffold212	356814	TT	CC	CC	INTERGENIC			
SNP_66135_A_356837	NW_004515755.1	scaffold212	356837	AA	GG	GG	INTERGENIC			
SNP_66136_A_356840	NW_004515755.1	scaffold212	356840	AA	GG	GG	INTERGENIC			
SNP_66138_A_356937	NW_004515755.1	scaffold212	356937	GG	AA	AA	INTERGENIC			
SNP_66139_A_356940	NW_004515755.1	scaffold212	356940	TT	GG	GG	INTERGENIC			
SNP_66140_A_356979	NW_004515755.1	scaffold212	356979	GG	AA	AA	INTERGENIC			
SNP_66141_A_357016	NW_004515755.1	scaffold212	357016	CC	TT	TT	INTERGENIC			
SNP_66142_A_365672	NW_004515755.1	scaffold212	365672	AA	GG	GG	INTERGENIC			
SNP_66143_A_366004	NW_004515755.1	scaffold212	366004	TT	CC	CC	INTERGENIC			
SNP_66144_A_366039	NW_004515755.1	scaffold212	366039	TT	CC	CC	INTERGENIC			
SNP_66145_A_367957	NW_004515755.1	scaffold212	367957	AA	GG	GG	INTERGENIC			
SNP_66146_A_368558	NW_004515755.1	scaffold212	368558	AA	GG	GG	INTERGENIC			
SNP_66147_A_368868	NW_004515755.1	scaffold212	368868	GG	TT	TT	INTERGENIC			
SNP_66148_A_381109	NW_004515755.1	scaffold212	381109	GG	TT	TT	INTERGENIC			
SNP_66149_A_463452	NW_004515755.1	scaffold212	463452	GG	AA	AA	INTERGENIC			
SNP_66150_A_463476	NW_004515755.1	scaffold212	463476	TT	GG	GG	INTERGENIC			
SNP_66151_A_463503	NW_004515755.1	scaffold212	463503	TT	AA	AA	INTERGENIC			
SNP_66152_A_463544	NW_004515755.1	scaffold212	463544	AA	GG	GG	INTERGENIC			
SNP_66153_A_463583	NW_004515755.1	scaffold212	463583	GG	AA	AA	INTERGENIC			
SNP_66154_A_463584	NW_004515755.1	scaffold212	463584	GG	CC	CC	INTERGENIC			
SNP_66155_A_463589	NW_004515755.1	scaffold212	463589	AA	GG	GG	INTERGENIC			
SNP_66156_A_463928	NW_004515755.1	scaffold212	463928	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66157_A_464562	NW_004515755.1	scaffold212	464562	AA	GG	GG	INTERGENIC			
SNP_66158_A_464598	NW_004515755.1	scaffold212	464598	GG	AA	AA	INTERGENIC			
SNP_66159_A_495343	NW_004515755.1	scaffold212	495343	AA	GG	GG	INTERGENIC			
SNP_66160_A_500661	NW_004515755.1	scaffold212	500661	CC	TT	TT	INTERGENIC			
SNP_66161_A_500664	NW_004515755.1	scaffold212	500664	TT	CC	CC	INTERGENIC			
SNP_66162_A_500670	NW_004515755.1	scaffold212	500670	GG	AA	AA	INTERGENIC			
SNP_66163_A_500674	NW_004515755.1	scaffold212	500674	CC	TT	TT	INTERGENIC			
SNP_66164_A_500687	NW_004515755.1	scaffold212	500687	TT	GG	GG	INTERGENIC			
SNP_66165_A_500932	NW_004515755.1	scaffold212	500932	AA	TT	TT	INTERGENIC			
SNP_66166_A_500934	NW_004515755.1	scaffold212	500934	TT	GG	GG	INTERGENIC			
SNP_66167_A_500941	NW_004515755.1	scaffold212	500941	AA	CC	CC	INTERGENIC			
SNP_66168_A_500942	NW_004515755.1	scaffold212	500942	GG	AA	AA	INTERGENIC			
SNP_66169_A_500949	NW_004515755.1	scaffold212	500949	TT	CC	CC	INTERGENIC			
SNP_66170_A_501001	NW_004515755.1	scaffold212	501001	GG	CC	CC	INTERGENIC			
SNP_66171_A_501033	NW_004515755.1	scaffold212	501033	TT	GG	GG	INTERGENIC			
SNP_66172_A_501047	NW_004515755.1	scaffold212	501047	CC	GG	GG	INTERGENIC			
SNP_66173_A_501058	NW_004515755.1	scaffold212	501058	CC	TT	TT	INTERGENIC			
SNP_66174_A_6875	NW_004515756.1	scaffold214	6875	GG	TT	TT	INTERGENIC			
SNP_66175_A_6937	NW_004515756.1	scaffold214	6937	CC	TT	TT	INTERGENIC			
SNP_66176_A_6993	NW_004515756.1	scaffold214	6993	GG	TT	TT	INTERGENIC			
SNP_66177_A_7511	NW_004515756.1	scaffold214	7511	AA	TT	TT	INTERGENIC			
SNP_66178_A_7599	NW_004515756.1	scaffold214	7599	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66179_A_14322	NW_004515756.1	scaffold214	14322	AA	CC	CC	INTERGENIC			
SNP_66180_A_14400	NW_004515756.1	scaffold214	14400	AA	GG	GG	INTERGENIC			
SNP_66182_A_19171	NW_004515756.1	scaffold214	19171	AA	GG	GG	INTERGENIC			
SNP_66183_A_19302	NW_004515756.1	scaffold214	19302	TT	CC	CC	INTERGENIC			
SNP_66184_A_23731	NW_004515756.1	scaffold214	23731	CC	TT	TT	INTERGENIC			
SNP_66185_A_24773	NW_004515756.1	scaffold214	24773	AA	GG	GG	INTERGENIC			
SNP_66186_A_34593	NW_004515756.1	scaffold214	34593	AA	CC	CC	INTERGENIC			
SNP_66187_A_34823	NW_004515756.1	scaffold214	34823	AA	TT	TT	INTERGENIC			
SNP_66188_A_34983	NW_004515756.1	scaffold214	34983	TT	GG	GG	INTERGENIC			
SNP_66189_A_35004	NW_004515756.1	scaffold214	35004	GG	TT	TT	INTERGENIC			
SNP_66190_A_35095	NW_004515756.1	scaffold214	35095	CC	AA	AA	INTERGENIC			
SNP_66191_A_35219	NW_004515756.1	scaffold214	35219	TT	GG	GG	INTERGENIC			
SNP_66192_A_39306	NW_004515756.1	scaffold214	39306	AA	GG	GG	INTERGENIC			
SNP_66193_A_39343	NW_004515756.1	scaffold214	39343	AA	TT	TT	INTERGENIC			
SNP_66194_A_49309	NW_004515756.1	scaffold214	49309	CC	TT	TT	INTERGENIC			
SNP_66195_A_49796	NW_004515756.1	scaffold214	49796	CC	TT	TT	INTERGENIC			
SNP_66196_A_51943	NW_004515756.1	scaffold214	51943	TT	CC	CC	INTERGENIC			
SNP_66197_A_52029	NW_004515756.1	scaffold214	52029	CC	TT	TT	INTERGENIC			
SNP_66198_A_52033	NW_004515756.1	scaffold214	52033	TT	AA	AA	INTERGENIC			
SNP_66200_A_52040	NW_004515756.1	scaffold214	52040	AA	GG	GG	INTERGENIC			
SNP_66201_A_52044	NW_004515756.1	scaffold214	52044	TT	GG	GG	INTERGENIC			
SNP_66202_A_52048	NW_004515756.1	scaffold214	52048	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66203_A_52267	NW_004515756.1	scaffold214	52267	AA	GG	GG	INTERGENIC			
SNP_66204_A_54754	NW_004515756.1	scaffold214	54754	CC	TT	TT	INTERGENIC			
SNP_66205_A_54832	NW_004515756.1	scaffold214	54832	TT	GG	GG	INTERGENIC			
SNP_66206_A_54890	NW_004515756.1	scaffold214	54890	TT	AA	AA	INTERGENIC			
SNP_66207_A_55172	NW_004515756.1	scaffold214	55172	CC	TT	TT	INTERGENIC			
SNP_66208_A_55243	NW_004515756.1	scaffold214	55243	TT	CC	CC	INTERGENIC			
SNP_66209_A_55245	NW_004515756.1	scaffold214	55245	TT	CC	CC	INTERGENIC			
SNP_66210_A_55261	NW_004515756.1	scaffold214	55261	GG	AA	AA	INTERGENIC			
SNP_66211_A_59809	NW_004515756.1	scaffold214	59809	CC	GG	GG	INTERGENIC			
SNP_66212_A_59823	NW_004515756.1	scaffold214	59823	GG	AA	AA	INTERGENIC			
SNP_66213_A_79522	NW_004515756.1	scaffold214	79522	AA	GG	GG	INTERGENIC			
SNP_66214_A_81036	NW_004515756.1	scaffold214	81036	TT	GG	GG	INTERGENIC			
SNP_66215_A_81093	NW_004515756.1	scaffold214	81093	AA	TT	TT	INTERGENIC			
SNP_66216_A_89109	NW_004515756.1	scaffold214	89109	CC	TT	TT	INTERGENIC			
SNP_66217_A_89159	NW_004515756.1	scaffold214	89159	TT	CC	CC	INTERGENIC			
SNP_66218_A_92340	NW_004515756.1	scaffold214	92340	GG	AA	AA	INTERGENIC			
SNP_66219_A_102598	NW_004515756.1	scaffold214	102598	CC	TT	TT	INTERGENIC			
SNP_66220_A_103268	NW_004515756.1	scaffold214	103268	CC	TT	TT	INTERGENIC			
SNP_66221_A_120227	NW_004515756.1	scaffold214	120227	CC	AA	AA	INTERGENIC			
SNP_66222_A_122889	NW_004515756.1	scaffold214	122889	GG	AA	AA	INTERGENIC			
SNP_66223_A_122927	NW_004515756.1	scaffold214	122927	TT	AA	AA	INTERGENIC			
SNP_66224_A_122951	NW_004515756.1	scaffold214	122951	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66225_A_125677	NW_004515756.1	scaffold214	125677	GG	AA	AA	INTERGENIC			
SNP_66226_A_125782	NW_004515756.1	scaffold214	125782	GG	AA	AA	INTERGENIC			
SNP_66227_A_126095	NW_004515756.1	scaffold214	126095	TT	GG	GG	INTERGENIC			
SNP_66228_A_127876	NW_004515756.1	scaffold214	127876	AA	CC	CC	INTERGENIC			
SNP_66229_A_128104	NW_004515756.1	scaffold214	128104	CC	TT	TT	INTERGENIC			
SNP_66230_A_128109	NW_004515756.1	scaffold214	128109	CC	TT	TT	INTERGENIC			
SNP_66231_A_131111	NW_004515756.1	scaffold214	131111	TT	AA	AA	INTERGENIC			
SNP_66232_A_131186	NW_004515756.1	scaffold214	131186	CC	TT	TT	INTERGENIC			
SNP_66233_A_131287	NW_004515756.1	scaffold214	131287	GG	AA	AA	INTERGENIC			
SNP_66234_A_138400	NW_004515756.1	scaffold214	138400	GG	AA	AA	INTERGENIC			
SNP_66235_A_138486	NW_004515756.1	scaffold214	138486	GG	TT	TT	INTERGENIC			
SNP_66236_A_138712	NW_004515756.1	scaffold214	138712	TT	GG	GG	INTERGENIC			
SNP_66237_A_138771	NW_004515756.1	scaffold214	138771	AA	GG	GG	INTERGENIC			
SNP_66238_A_138871	NW_004515756.1	scaffold214	138871	TT	GG	GG	INTERGENIC			
SNP_66239_A_139070	NW_004515756.1	scaffold214	139070	GG	TT	TT	INTERGENIC			
SNP_66240_A_139206	NW_004515756.1	scaffold214	139206	CC	TT	TT	INTERGENIC			
SNP_66241_A_139295	NW_004515756.1	scaffold214	139295	CC	GG	GG	INTERGENIC			
SNP_66242_A_139309	NW_004515756.1	scaffold214	139309	AA	CC	CC	INTERGENIC			
SNP_66243_A_139601	NW_004515756.1	scaffold214	139601	TT	CC	CC	INTERGENIC			
SNP_66244_A_139602	NW_004515756.1	scaffold214	139602	GG	AA	AA	INTERGENIC			
SNP_66245_A_139625	NW_004515756.1	scaffold214	139625	TT	AA	AA	INTERGENIC			
SNP_66246_A_141797	NW_004515756.1	scaffold214	141797	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66247_A_141882	NW_004515756.1	scaffold214	141882	GG	AA	AA	INTERGENIC			
SNP_66248_A_141932	NW_004515756.1	scaffold214	141932	GG	AA	AA	INTERGENIC			
SNP_66249_A_141935	NW_004515756.1	scaffold214	141935	CC	TT	TT	INTERGENIC			
SNP_66250_A_142781	NW_004515756.1	scaffold214	142781	AA	GG	GG	INTERGENIC			
SNP_66251_A_143703	NW_004515756.1	scaffold214	143703	AA	GG	GG	INTERGENIC			
SNP_66252_A_143876	NW_004515756.1	scaffold214	143876	AA	CC	CC	INTERGENIC			
SNP_66253_A_144334	NW_004515756.1	scaffold214	144334	TT	GG	GG	INTERGENIC			
SNP_66254_A_144470	NW_004515756.1	scaffold214	144470	GG	TT	TT	INTERGENIC			
SNP_66255_A_144563	NW_004515756.1	scaffold214	144563	AA	GG	GG	INTERGENIC			
SNP_66256_A_144612	NW_004515756.1	scaffold214	144612	TT	AA	AA	INTERGENIC			
SNP_66257_A_144738	NW_004515756.1	scaffold214	144738	CC	TT	TT	INTERGENIC			
SNP_66258_A_144774	NW_004515756.1	scaffold214	144774	AA	TT	TT	INTERGENIC			
SNP_66259_A_144834	NW_004515756.1	scaffold214	144834	AA	CC	CC	INTERGENIC			
SNP_66260_A_144894	NW_004515756.1	scaffold214	144894	AA	GG	GG	INTERGENIC			
SNP_66261_A_14175	NW_004515757.1	scaffold217	14175	GG	TT	TT	INTERGENIC			
SNP_66262_A_16808	NW_004515757.1	scaffold217	16808	CC	AA	AA	INTERGENIC			
SNP_66263_A_1646	NW_004515758.1	scaffold220	1646	GG	TT	TT	INTERGENIC			
SNP_66264_A_1708	NW_004515758.1	scaffold220	1708	AA	CC	CC	INTERGENIC			
SNP_66265_A_4706	NW_004515758.1	scaffold220	4706	TT	AA	AA	INTERGENIC			
SNP_66266_A_4812	NW_004515758.1	scaffold220	4812	GG	CC	CC	INTERGENIC			
SNP_66267_A_4845	NW_004515758.1	scaffold220	4845	AA	CC	CC	INTERGENIC			
SNP_66268_A_4981	NW_004515758.1	scaffold220	4981	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66269_A_5028	NW_004515758.1	scaffold220	5028	TT	CC	CC	INTERGENIC		
SNP_66270_A_5414	NW_004515758.1	scaffold220	5414	AA	TT	TT	INTERGENIC		
SNP_66271_A_32344	NW_004515759.1	scaffold221	32344	AA	CC	CC	INTERGENIC		
SNP_66272_A_37270	NW_004515759.1	scaffold221	37270	AA	TT	TT	INTERGENIC		
SNP_66273_A_43781	NW_004515759.1	scaffold221	43781	TT	CC	CC	DRR	101505748	Unknown function
SNP_66274_A_43786	NW_004515759.1	scaffold221	43786	TT	GG	GG	DRR	101505748	Unknown function
SNP_66275_A_61219	NW_004515759.1	scaffold221	61219	TT	CC	CC	INTERGENIC		
SNP_66277_A_61644	NW_004515759.1	scaffold221	61644	AA	GG	GG	INTERGENIC		
SNP_66278_A_92573	NW_004515759.1	scaffold221	92573	AA	GG	GG	INTERGENIC		
SNP_66279_A_94040	NW_004515759.1	scaffold221	94040	AA	GG	GG	INTERGENIC		
SNP_66280_A_94049	NW_004515759.1	scaffold221	94049	TT	CC	CC	INTERGENIC		
SNP_66281_A_110024	NW_004515759.1	scaffold221	110024	GG	AA	AA	INTERGENIC		
SNP_66282_A_110034	NW_004515759.1	scaffold221	110034	AA	GG	GG	INTERGENIC		
SNP_66283_A_110066	NW_004515759.1	scaffold221	110066	CC	TT	TT	INTERGENIC		
SNP_66284_A_110179	NW_004515759.1	scaffold221	110179	AA	TT	TT	INTERGENIC		
SNP_66285_A_110291	NW_004515759.1	scaffold221	110291	TT	CC	CC	INTERGENIC		
SNP_66286_A_110376	NW_004515759.1	scaffold221	110376	GG	CC	CC	INTERGENIC		
SNP_66287_A_110459	NW_004515759.1	scaffold221	110459	CC	AA	AA	INTERGENIC		
SNP_66288_A_4157	NW_004515760.1	scaffold222	4157	TT	CC	CC	INTERGENIC		
SNP_66289_A_5923	NW_004515760.1	scaffold222	5923	TT	CC	CC	INTERGENIC		
SNP_66290_A_25888	NW_004515760.1	scaffold222	25888	CC	GG	GG	INTRON	101506067	7-deoxyloganetin glucosyltransferase-like
SNP_66291_A_25914	NW_004515760.1	scaffold222	25914	CC	TT	TT	INTRON	101506067	7-deoxyloganetin glucosyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66292_A_25958	NW_004515760.1	scaffold222	25958	AA	TT	TT	INTRON	101506067	7-deoxyloganetin glucosyltransferase-like
SNP_66295_A_46735	NW_004515760.1	scaffold222	46735	AA	GG	GG	INTERGENIC		
SNP_66296_A_47168	NW_004515760.1	scaffold222	47168	TT	CC	CC	INTERGENIC		
SNP_66297_A_47180	NW_004515760.1	scaffold222	47180	GG	AA	AA	INTERGENIC		
SNP_66298_A_55220	NW_004515760.1	scaffold222	55220	CC	TT	TT	INTERGENIC		
SNP_66299_A_65367	NW_004515760.1	scaffold222	65367	AA	GG	GG	INTERGENIC		
SNP_66300_A_65377	NW_004515760.1	scaffold222	65377	GG	CC	CC	INTERGENIC		
SNP_66301_A_70040	NW_004515760.1	scaffold222	70040	TT	CC	CC	INTERGENIC		
SNP_66302_A_12204	NW_004515761.1	scaffold223	12204	AA	GG	GG	URR	101507047	two-component response regulator ARR9-like
SNP_66303_A_21477	NW_004515761.1	scaffold223	21477	AA	CC	CC	INTRON	101508314	probable sugar phosphate/phosphate translocator At5g25400
SNP_66304_A_36543	NW_004515761.1	scaffold223	36543	TT	GG	GG	INTERGENIC		
SNP_66305_A_61172	NW_004515761.1	scaffold223	61172	GG	AA	AA	INTRON	101507365	vacuolar amino acid transporter 1-like
SNP_66306_A_63392	NW_004515761.1	scaffold223	63392	CC	TT	TT	INTRON	101507365	vacuolar amino acid transporter 1-like
SNP_66308_A_84748	NW_004515761.1	scaffold223	84748	AA	GG	GG	INTERGENIC		
SNP_66309_A_88432	NW_004515761.1	scaffold223	88432	TT	AA	AA	INTERGENIC		
SNP_66310_A_90112	NW_004515761.1	scaffold223	90112	AA	GG	GG	INTERGENIC		
SNP_66311_A_95301	NW_004515761.1	scaffold223	95301	CC	AA	AA	NON_SYNONYMOUS_CODING	101508631	uncharacterized LOC101508631
SNP_66312_A_95723	NW_004515761.1	scaffold223	95723	CC	TT	TT	INTRON	101508631	uncharacterized LOC101508631
SNP_66314_A_149074	NW_004515761.1	scaffold223	149074	AA	GG	GG	INTERGENIC		
SNP_66315_A_175051	NW_004515761.1	scaffold223	175051	CC	AA	AA	INTERGENIC		
SNP_66317_A_181273	NW_004515761.1	scaffold223	181273	TT	GG	GG	INTERGENIC		
SNP_66318_A_182153	NW_004515761.1	scaffold223	182153	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66319_A_182154	NW_004515761.1	scaffold223	182154	TT	CC	CC	INTERGENIC			
SNP_66320_A_1270	NW_004515762.1	scaffold224	1270	AA	CC	CC	INTERGENIC			
SNP_66321_A_8045	NW_004515762.1	scaffold224	8045	TT	AA	AA	INTERGENIC			
SNP_66322_A_8128	NW_004515762.1	scaffold224	8128	AA	CC	CC	INTERGENIC			
SNP_66323_A_8154	NW_004515762.1	scaffold224	8154	AA	GG	GG	INTERGENIC			
SNP_66324_A_8380	NW_004515762.1	scaffold224	8380	AA	GG	GG	INTERGENIC			
SNP_66325_A_8475	NW_004515762.1	scaffold224	8475	TT	CC	CC	INTERGENIC			
SNP_66326_A_20428	NW_004515762.1	scaffold224	20428	GG	AA	AA	INTERGENIC			
SNP_66327_A_20488	NW_004515762.1	scaffold224	20488	CC	AA	AA	INTERGENIC			
SNP_66328_A_20526	NW_004515762.1	scaffold224	20526	TT	GG	GG	INTERGENIC			
SNP_66329_A_20878	NW_004515762.1	scaffold224	20878	TT	CC	CC	INTERGENIC			
SNP_66330_A_20942	NW_004515762.1	scaffold224	20942	GG	AA	AA	INTERGENIC			
SNP_66331_A_24014	NW_004515762.1	scaffold224	24014	AA	GG	GG	INTERGENIC			
SNP_66332_A_32536	NW_004515762.1	scaffold224	32536	TT	AA	AA	INTERGENIC			
SNP_66333_A_32731	NW_004515762.1	scaffold224	32731	CC	TT	TT	INTERGENIC			
SNP_66334_A_34842	NW_004515762.1	scaffold224	34842	GG	AA	AA	INTERGENIC			
SNP_66335_A_34861	NW_004515762.1	scaffold224	34861	AA	GG	GG	INTERGENIC			
SNP_66336_A_152163	NW_004515762.1	scaffold224	152163	AA	CC	CC	URR	101511200	Unknown function	
SNP_66337_A_152179	NW_004515762.1	scaffold224	152179	AA	TT	TT	URR	101511200	Unknown function	
SNP_66338_A_152191	NW_004515762.1	scaffold224	152191	AA	GG	GG	URR	101511200	Unknown function	
SNP_66339_A_152192	NW_004515762.1	scaffold224	152192	TT	AA	AA	URR	101511200	Unknown function	
SNP_66340_A_152197	NW_004515762.1	scaffold224	152197	GG	AA	AA	URR	101511200	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66341_A_152228	NW_004515762.1	scaffold224	152228	GG	CC	CC	URR	101511200	Unknown function
SNP_66342_A_152236	NW_004515762.1	scaffold224	152236	GG	CC	CC	URR	101511200	Unknown function
SNP_66343_A_152251	NW_004515762.1	scaffold224	152251	TT	AA	AA	URR	101511200	Unknown function
SNP_66344_A_152252	NW_004515762.1	scaffold224	152252	TT	CC	CC	URR	101511200	Unknown function
SNP_66345_A_152570	NW_004515762.1	scaffold224	152570	AA	GG	GG	URR	101511200	Unknown function
SNP_66346_A_152579	NW_004515762.1	scaffold224	152579	AA	TT	TT	URR	101511200	Unknown function
SNP_66347_A_152595	NW_004515762.1	scaffold224	152595	GG	AA	AA	URR	101511200	Unknown function
SNP_66348_A_152669	NW_004515762.1	scaffold224	152669	AA	GG	GG	URR	101511200	Unknown function
SNP_66349_A_158517	NW_004515762.1	scaffold224	158517	GG	CC	CC	DRR	101511522	Unknown function
SNP_66350_A_161091	NW_004515762.1	scaffold224	161091	CC	TT	TT	DRR	101511849	Unknown function
SNP_66351_A_161097	NW_004515762.1	scaffold224	161097	AA	GG	GG	DRR	101511849	Unknown function
SNP_66352_A_161114	NW_004515762.1	scaffold224	161114	TT	CC	CC	DRR	101511849	Unknown function
SNP_66353_A_161249	NW_004515762.1	scaffold224	161249	CC	TT	TT	DRR	101511849	Unknown function
SNP_66354_A_161257	NW_004515762.1	scaffold224	161257	TT	GG	GG	DRR	101511849	Unknown function
SNP_66355_A_161314	NW_004515762.1	scaffold224	161314	TT	CC	CC	URR	101511522	Unknown function
SNP_66356_A_161320	NW_004515762.1	scaffold224	161320	TT	CC	CC	URR	101511522	Unknown function
SNP_66357_A_161322	NW_004515762.1	scaffold224	161322	AA	GG	GG	URR	101511522	Unknown function
SNP_66358_A_161324	NW_004515762.1	scaffold224	161324	TT	CC	CC	URR	101511522	Unknown function
SNP_66359_A_161332	NW_004515762.1	scaffold224	161332	TT	CC	CC	URR	101511522	Unknown function
SNP_66360_A_161525	NW_004515762.1	scaffold224	161525	AA	GG	GG	URR	101511522	Unknown function
SNP_66361_A_161547	NW_004515762.1	scaffold224	161547	TT	CC	CC	URR	101511522	Unknown function
SNP_66362_A_161632	NW_004515762.1	scaffold224	161632	AA	GG	GG	URR	101511522	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66363_A_161659	NW_004515762.1	scaffold224	161659	TT	CC	CC	URR	101511522	Unknown function
SNP_66364_A_161683	NW_004515762.1	scaffold224	161683	AA	GG	GG	URR	101511522	Unknown function
SNP_66365_A_161694	NW_004515762.1	scaffold224	161694	CC	GG	GG	URR	101511522	Unknown function
SNP_66366_A_165323	NW_004515762.1	scaffold224	165323	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66367_A_165328	NW_004515762.1	scaffold224	165328	GG	TT	TT	INTRON	101512161	uncharacterized LOC101512161
SNP_66368_A_174896	NW_004515762.1	scaffold224	174896	TT	CC	CC	INTERGENIC		
SNP_66369_A_174913	NW_004515762.1	scaffold224	174913	TT	GG	GG	INTERGENIC		
SNP_66370_A_175012	NW_004515762.1	scaffold224	175012	AA	GG	GG	DRR	101509580	uncharacterized LOC101509580
SNP_66371_A_175028	NW_004515762.1	scaffold224	175028	GG	CC	CC	DRR	101509580	uncharacterized LOC101509580
SNP_66372_A_186158	NW_004515762.1	scaffold224	186158	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66373_A_186187	NW_004515762.1	scaffold224	186187	TT	CC	CC	INTRON	101512161	uncharacterized LOC101512161
SNP_66374_A_186188	NW_004515762.1	scaffold224	186188	GG	CC	CC	INTRON	101512161	uncharacterized LOC101512161
SNP_66375_A_186225	NW_004515762.1	scaffold224	186225	GG	TT	TT	INTRON	101512161	uncharacterized LOC101512161
SNP_66376_A_186233	NW_004515762.1	scaffold224	186233	TT	CC	CC	INTRON	101512161	uncharacterized LOC101512161
SNP_66377_A_186235	NW_004515762.1	scaffold224	186235	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66378_A_186248	NW_004515762.1	scaffold224	186248	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66379_A_186254	NW_004515762.1	scaffold224	186254	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66380_A_186270	NW_004515762.1	scaffold224	186270	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66381_A_186289	NW_004515762.1	scaffold224	186289	TT	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66382_A_186323	NW_004515762.1	scaffold224	186323	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66383_A_186356	NW_004515762.1	scaffold224	186356	TT	CC	CC	INTRON	101512161	uncharacterized LOC101512161
SNP_66384_A_186357	NW_004515762.1	scaffold224	186357	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66385_A_186371	NW_004515762.1	scaffold224	186371	TT	CC	CC	INTRON	101512161	uncharacterized LOC101512161
SNP_66386_A_186398	NW_004515762.1	scaffold224	186398	AA	GG	GG	INTRON	101512161	uncharacterized LOC101512161
SNP_66387_A_246426	NW_004515762.1	scaffold224	246426	AA	TT	TT	INTERGENIC		
SNP_66388_A_246427	NW_004515762.1	scaffold224	246427	AA	CC	CC	INTERGENIC		
SNP_66389_A_249297	NW_004515762.1	scaffold224	249297	AA	GG	GG	INTERGENIC		
SNP_66390_A_249791	NW_004515762.1	scaffold224	249791	AA	GG	GG	INTERGENIC		
SNP_66391_A_288442	NW_004515762.1	scaffold224	288442	TT	AA	AA	INTERGENIC		
SNP_66392_A_288444	NW_004515762.1	scaffold224	288444	TT	GG	GG	INTERGENIC		
SNP_66393_A_294281	NW_004515762.1	scaffold224	294281	CC	TT	TT	INTERGENIC		
SNP_66394_A_302414	NW_004515762.1	scaffold224	302414	AA	CC	CC	INTERGENIC		
SNP_66395_A_32394	NW_004515763.1	scaffold227	32394	GG	AA	AA	INTERGENIC		
SNP_66396_A_32397	NW_004515763.1	scaffold227	32397	CC	AA	AA	INTERGENIC		
SNP_66397_A_32401	NW_004515763.1	scaffold227	32401	TT	CC	CC	INTERGENIC		
SNP_66398_A_32415	NW_004515763.1	scaffold227	32415	TT	CC	CC	INTERGENIC		
SNP_66399_A_32423	NW_004515763.1	scaffold227	32423	CC	TT	TT	INTERGENIC		
SNP_66400_A_32431	NW_004515763.1	scaffold227	32431	CC	GG	GG	INTERGENIC		
SNP_66401_A_32455	NW_004515763.1	scaffold227	32455	CC	TT	TT	INTERGENIC		
SNP_66402_A_32496	NW_004515763.1	scaffold227	32496	TT	AA	AA	INTERGENIC		
SNP_66403_A_32505	NW_004515763.1	scaffold227	32505	GG	AA	AA	INTERGENIC		
SNP_66404_A_32507	NW_004515763.1	scaffold227	32507	AA	CC	CC	INTERGENIC		
SNP_66405_A_32556	NW_004515763.1	scaffold227	32556	AA	CC	CC	INTERGENIC		
SNP_66406_A_32610	NW_004515763.1	scaffold227	32610	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66407_A_59907	NW_004515763.1	scaffold227	59907	GG	AA	AA	INTERGENIC		
SNP_66408_A_59983	NW_004515763.1	scaffold227	59983	AA	CC	CC	INTERGENIC		
SNP_66409_A_59986	NW_004515763.1	scaffold227	59986	AA	CC	CC	INTERGENIC		
SNP_66410_A_108830	NW_004515763.1	scaffold227	108830	AA	GG	GG	INTERGENIC		
SNP_66411_A_127129	NW_004515763.1	scaffold227	127129	TT	AA	AA	INTERGENIC		
SNP_66412_A_134791	NW_004515763.1	scaffold227	134791	AA	GG	GG	URR	101512805	Unknown function
SNP_66413_A_135455	NW_004515763.1	scaffold227	135455	TT	CC	CC	URR	101512805	Unknown function
SNP_66415_A_135525	NW_004515763.1	scaffold227	135525	AA	GG	GG	URR	101512805	Unknown function
SNP_66416_A_135532	NW_004515763.1	scaffold227	135532	AA	CC	CC	URR	101512805	Unknown function
SNP_66417_A_136507	NW_004515763.1	scaffold227	136507	AA	GG	GG	INTERGENIC		
SNP_66418_A_136515	NW_004515763.1	scaffold227	136515	AA	TT	TT	INTERGENIC		
SNP_66419_A_136528	NW_004515763.1	scaffold227	136528	CC	GG	GG	INTERGENIC		
SNP_66420_A_136878	NW_004515763.1	scaffold227	136878	TT	CC	CC	INTERGENIC		
SNP_66421_A_136917	NW_004515763.1	scaffold227	136917	TT	AA	AA	INTERGENIC		
SNP_66422_A_136935	NW_004515763.1	scaffold227	136935	TT	AA	AA	INTERGENIC		
SNP_66423_A_140572	NW_004515763.1	scaffold227	140572	AA	GG	GG	INTRON	id197586	Unknown function
SNP_66424_A_140577	NW_004515763.1	scaffold227	140577	TT	CC	CC	INTRON	id197586	Unknown function
SNP_66425_A_140918	NW_004515763.1	scaffold227	140918	AA	CC	CC	DRR	101512488	Unknown function
SNP_66426_A_140921	NW_004515763.1	scaffold227	140921	AA	CC	CC	DRR	101512488	Unknown function
SNP_66427_A_140937	NW_004515763.1	scaffold227	140937	AA	TT	TT	DRR	101512488	Unknown function
SNP_66429_A_141016	NW_004515763.1	scaffold227	141016	GG	TT	TT	DRR	101512488	Unknown function
SNP_66430_A_141037	NW_004515763.1	scaffold227	141037	TT	CC	CC	DRR	101512488	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66431_A_141068	NW_004515763.1	scaffold227	141068	AA	GG	GG	DRR	101512488	Unknown function
SNP_66432_A_141082	NW_004515763.1	scaffold227	141082	TT	CC	CC	DRR	101512488	Unknown function
SNP_66433_A_141164	NW_004515763.1	scaffold227	141164	GG	AA	AA	DRR	101512488	Unknown function
SNP_66434_A_141177	NW_004515763.1	scaffold227	141177	TT	CC	CC	DRR	101512488	Unknown function
SNP_66435_A_141207	NW_004515763.1	scaffold227	141207	TT	AA	AA	DRR	101512488	Unknown function
SNP_66436_A_141256	NW_004515763.1	scaffold227	141256	TT	CC	CC	DRR	101512488	Unknown function
SNP_66437_A_141386	NW_004515763.1	scaffold227	141386	TT	CC	CC	DRR	101512488	Unknown function
SNP_66438_A_142520	NW_004515763.1	scaffold227	142520	TT	CC	CC	URR	101513459	Unknown function
SNP_66439_A_142522	NW_004515763.1	scaffold227	142522	CC	AA	AA	URR	101513459	Unknown function
SNP_66440_A_142524	NW_004515763.1	scaffold227	142524	TT	CC	CC	URR	101513459	Unknown function
SNP_66441_A_142531	NW_004515763.1	scaffold227	142531	TT	CC	CC	URR	101513459	Unknown function
SNP_66442_A_142564	NW_004515763.1	scaffold227	142564	AA	CC	CC	URR	101513459	Unknown function
SNP_66443_A_142981	NW_004515763.1	scaffold227	142981	TT	CC	CC	DRR	101513769	Unknown function
SNP_66444_A_143022	NW_004515763.1	scaffold227	143022	AA	GG	GG	DRR	101513769	Unknown function
SNP_66445_A_144233	NW_004515763.1	scaffold227	144233	AA	GG	GG	INTERGENIC		
SNP_66446_A_144260	NW_004515763.1	scaffold227	144260	TT	CC	CC	INTERGENIC		
SNP_66447_A_144291	NW_004515763.1	scaffold227	144291	AA	GG	GG	INTERGENIC		
SNP_66448_A_144406	NW_004515763.1	scaffold227	144406	TT	CC	CC	INTERGENIC		
SNP_66450_A_144525	NW_004515763.1	scaffold227	144525	AA	CC	CC	INTERGENIC		
SNP_66451_A_144542	NW_004515763.1	scaffold227	144542	AA	GG	GG	INTERGENIC		
SNP_66452_A_144561	NW_004515763.1	scaffold227	144561	TT	CC	CC	INTERGENIC		
SNP_66453_A_144587	NW_004515763.1	scaffold227	144587	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66456_A_194866	NW_004515763.1	scaffold227	194866	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66457_A_194901	NW_004515763.1	scaffold227	194901	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66458_A_194934	NW_004515763.1	scaffold227	194934	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66459_A_195033	NW_004515763.1	scaffold227	195033	GG	TT	TT	INTRON	101513769	Unknown function
SNP_66460_A_195072	NW_004515763.1	scaffold227	195072	CC	AA	AA	INTRON	101513769	Unknown function
SNP_66461_A_195080	NW_004515763.1	scaffold227	195080	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66462_A_195088	NW_004515763.1	scaffold227	195088	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66463_A_195092	NW_004515763.1	scaffold227	195092	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66464_A_195149	NW_004515763.1	scaffold227	195149	TT	GG	GG	INTRON	101513769	Unknown function
SNP_66465_A_195271	NW_004515763.1	scaffold227	195271	AA	TT	TT	INTRON	101513769	Unknown function
SNP_66466_A_195412	NW_004515763.1	scaffold227	195412	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66467_A_195547	NW_004515763.1	scaffold227	195547	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66468_A_195606	NW_004515763.1	scaffold227	195606	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66469_A_195667	NW_004515763.1	scaffold227	195667	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66471_A_195725	NW_004515763.1	scaffold227	195725	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66472_A_195734	NW_004515763.1	scaffold227	195734	CC	GG	GG	INTRON	101513769	Unknown function
SNP_66473_A_195790	NW_004515763.1	scaffold227	195790	TT	AA	AA	INTRON	101513769	Unknown function
SNP_66474_A_195856	NW_004515763.1	scaffold227	195856	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66475_A_195891	NW_004515763.1	scaffold227	195891	GG	TT	TT	INTRON	101513769	Unknown function
SNP_66476_A_195936	NW_004515763.1	scaffold227	195936	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66477_A_195940	NW_004515763.1	scaffold227	195940	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66478_A_196046	NW_004515763.1	scaffold227	196046	TT	CC	CC	INTRON	101513769	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66479_A_196089	NW_004515763.1	scaffold227	196089	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66480_A_196095	NW_004515763.1	scaffold227	196095	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66482_A_196149	NW_004515763.1	scaffold227	196149	AA	TT	TT	INTRON	101513769	Unknown function
SNP_66483_A_196185	NW_004515763.1	scaffold227	196185	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66485_A_196469	NW_004515763.1	scaffold227	196469	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66486_A_196496	NW_004515763.1	scaffold227	196496	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66487_A_196583	NW_004515763.1	scaffold227	196583	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66488_A_197139	NW_004515763.1	scaffold227	197139	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66489_A_197296	NW_004515763.1	scaffold227	197296	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66490_A_197349	NW_004515763.1	scaffold227	197349	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66491_A_197397	NW_004515763.1	scaffold227	197397	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66493_A_197506	NW_004515763.1	scaffold227	197506	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66494_A_197552	NW_004515763.1	scaffold227	197552	AA	TT	TT	INTRON	101513769	Unknown function
SNP_66495_A_197575	NW_004515763.1	scaffold227	197575	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66496_A_197615	NW_004515763.1	scaffold227	197615	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66497_A_197630	NW_004515763.1	scaffold227	197630	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66498_A_197633	NW_004515763.1	scaffold227	197633	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66499_A_197727	NW_004515763.1	scaffold227	197727	CC	GG	GG	INTRON	101513769	Unknown function
SNP_66500_A_197730	NW_004515763.1	scaffold227	197730	GG	TT	TT	INTRON	101513769	Unknown function
SNP_66501_A_197747	NW_004515763.1	scaffold227	197747	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66502_A_197792	NW_004515763.1	scaffold227	197792	TT	AA	AA	INTRON	101513769	Unknown function
SNP_66503_A_197937	NW_004515763.1	scaffold227	197937	GG	CC	CC	INTRON	101513769	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66504_A_197954	NW_004515763.1	scaffold227	197954	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66505_A_197997	NW_004515763.1	scaffold227	197997	AA	CC	CC	INTRON	101513769	Unknown function
SNP_66506_A_198003	NW_004515763.1	scaffold227	198003	GG	CC	CC	INTRON	101513769	Unknown function
SNP_66507_A_198046	NW_004515763.1	scaffold227	198046	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66508_A_198061	NW_004515763.1	scaffold227	198061	CC	TT	TT	INTRON	101513769	Unknown function
SNP_66509_A_198137	NW_004515763.1	scaffold227	198137	AA	GG	GG	INTRON	101513769	Unknown function
SNP_66510_A_198148	NW_004515763.1	scaffold227	198148	GG	AA	AA	INTRON	101513769	Unknown function
SNP_66511_A_204829	NW_004515763.1	scaffold227	204829	CC	GG	GG	INTRON	101513769	Unknown function
SNP_66512_A_204832	NW_004515763.1	scaffold227	204832	TT	CC	CC	INTRON	101513769	Unknown function
SNP_66513_A_250384	NW_004515763.1	scaffold227	250384	CC	TT	TT	INTERGENIC		
SNP_66514_A_315113	NW_004515763.1	scaffold227	315113	CC	TT	TT	STOP_GAINED	101514111	Unknown function
SNP_66515_A_315927	NW_004515763.1	scaffold227	315927	CC	TT	TT	URR	101514111	Unknown function
SNP_66516_A_317425	NW_004515763.1	scaffold227	317425	CC	TT	TT	INTERGENIC		
SNP_66517_A_320062	NW_004515763.1	scaffold227	320062	CC	TT	TT	INTERGENIC		
SNP_66518_A_325220	NW_004515763.1	scaffold227	325220	AA	GG	GG	INTERGENIC		
SNP_66520_A_325975	NW_004515763.1	scaffold227	325975	CC	TT	TT	INTERGENIC		
SNP_66521_A_341426	NW_004515763.1	scaffold227	341426	CC	AA	AA	INTERGENIC		
SNP_66522_A_351510	NW_004515763.1	scaffold227	351510	AA	GG	GG	INTERGENIC		
SNP_66523_A_365091	NW_004515763.1	scaffold227	365091	AA	GG	GG	INTERGENIC		
SNP_66524_A_371562	NW_004515763.1	scaffold227	371562	GG	CC	CC	INTERGENIC		
SNP_66525_A_371765	NW_004515763.1	scaffold227	371765	CC	AA	AA	INTERGENIC		
SNP_66526_A_9539	NW_004515764.1	scaffold228	9539	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66528_A_9929	NW_004515764.1	scaffold228	9929	GG	TT	TT	INTERGENIC			
SNP_66529_A_24882	NW_004515764.1	scaffold228	24882	TT	GG	GG	INTERGENIC			
SNP_66530_A_26046	NW_004515764.1	scaffold228	26046	GG	AA	AA	INTERGENIC			
SNP_66531_A_64741	NW_004515764.1	scaffold228	64741	AA	GG	GG	INTERGENIC			
SNP_66532_A_99535	NW_004515764.1	scaffold228	99535	CC	GG	GG	INTERGENIC			
SNP_66533_A_117125	NW_004515764.1	scaffold228	117125	TT	CC	CC	INTERGENIC			
SNP_66534_A_117431	NW_004515764.1	scaffold228	117431	AA	GG	GG	INTERGENIC			
SNP_66535_A_117653	NW_004515764.1	scaffold228	117653	TT	CC	CC	INTERGENIC			
SNP_66536_A_117740	NW_004515764.1	scaffold228	117740	GG	AA	AA	INTERGENIC			
SNP_66537_A_117755	NW_004515764.1	scaffold228	117755	TT	CC	CC	INTERGENIC			
SNP_66538_A_117759	NW_004515764.1	scaffold228	117759	CC	TT	TT	INTERGENIC			
SNP_66539_A_117892	NW_004515764.1	scaffold228	117892	TT	CC	CC	INTERGENIC			
SNP_66540_A_121976	NW_004515764.1	scaffold228	121976	AA	TT	TT	INTERGENIC			
SNP_66541_A_122053	NW_004515764.1	scaffold228	122053	CC	TT	TT	INTERGENIC			
SNP_66542_A_122066	NW_004515764.1	scaffold228	122066	CC	AA	AA	INTERGENIC			
SNP_66543_A_122102	NW_004515764.1	scaffold228	122102	TT	AA	AA	INTERGENIC			
SNP_66544_A_122636	NW_004515764.1	scaffold228	122636	TT	CC	CC	INTERGENIC			
SNP_66545_A_133738	NW_004515764.1	scaffold228	133738	TT	CC	CC	INTERGENIC			
SNP_66546_A_134883	NW_004515764.1	scaffold228	134883	TT	CC	CC	INTERGENIC			
SNP_66547_A_134913	NW_004515764.1	scaffold228	134913	AA	GG	GG	INTERGENIC			
SNP_66548_A_134945	NW_004515764.1	scaffold228	134945	AA	TT	TT	INTERGENIC			
SNP_66549_A_134996	NW_004515764.1	scaffold228	134996	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66550_A_135109	NW_004515764.1	scaffold228	135109	CC	TT	TT	INTERGENIC			
SNP_66551_A_135253	NW_004515764.1	scaffold228	135253	TT	CC	CC	INTERGENIC			
SNP_66554_A_137197	NW_004515764.1	scaffold228	137197	AA	GG	GG	INTERGENIC			
SNP_66555_A_137284	NW_004515764.1	scaffold228	137284	TT	CC	CC	INTERGENIC			
SNP_66556_A_144220	NW_004515764.1	scaffold228	144220	GG	AA	AA	INTERGENIC			
SNP_66557_A_144229	NW_004515764.1	scaffold228	144229	GG	TT	TT	INTERGENIC			
SNP_66558_A_147239	NW_004515764.1	scaffold228	147239	CC	GG	GG	INTERGENIC			
SNP_66559_A_147575	NW_004515764.1	scaffold228	147575	CC	TT	TT	INTERGENIC			
SNP_66560_A_148094	NW_004515764.1	scaffold228	148094	TT	CC	CC	INTERGENIC			
SNP_66561_A_148187	NW_004515764.1	scaffold228	148187	TT	CC	CC	INTERGENIC			
SNP_66562_A_148584	NW_004515764.1	scaffold228	148584	CC	TT	TT	INTERGENIC			
SNP_66563_A_148585	NW_004515764.1	scaffold228	148585	CC	GG	GG	INTERGENIC			
SNP_66564_A_148593	NW_004515764.1	scaffold228	148593	AA	GG	GG	INTERGENIC			
SNP_66565_A_148598	NW_004515764.1	scaffold228	148598	AA	TT	TT	INTERGENIC			
SNP_66566_A_149806	NW_004515764.1	scaffold228	149806	TT	CC	CC	INTERGENIC			
SNP_66567_A_149811	NW_004515764.1	scaffold228	149811	GG	CC	CC	INTERGENIC			
SNP_66568_A_149927	NW_004515764.1	scaffold228	149927	TT	CC	CC	INTERGENIC			
SNP_66569_A_154847	NW_004515764.1	scaffold228	154847	TT	CC	CC	INTERGENIC			
SNP_66570_A_155091	NW_004515764.1	scaffold228	155091	TT	CC	CC	INTERGENIC			
SNP_66571_A_155484	NW_004515764.1	scaffold228	155484	TT	CC	CC	INTERGENIC			
SNP_66572_A_155571	NW_004515764.1	scaffold228	155571	AA	TT	TT	INTERGENIC			
SNP_66573_A_155720	NW_004515764.1	scaffold228	155720	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66574_A_155721	NW_004515764.1	scaffold228	155721	GG	AA	AA	INTERGENIC			
SNP_66575_A_155774	NW_004515764.1	scaffold228	155774	TT	CC	CC	INTERGENIC			
SNP_66576_A_155959	NW_004515764.1	scaffold228	155959	AA	GG	GG	INTERGENIC			
SNP_66577_A_156113	NW_004515764.1	scaffold228	156113	CC	TT	TT	INTERGENIC			
SNP_66578_A_157981	NW_004515764.1	scaffold228	157981	TT	AA	AA	INTERGENIC			
SNP_66579_A_158320	NW_004515764.1	scaffold228	158320	AA	GG	GG	INTERGENIC			
SNP_66580_A_158370	NW_004515764.1	scaffold228	158370	AA	GG	GG	INTERGENIC			
SNP_66581_A_158371	NW_004515764.1	scaffold228	158371	GG	CC	CC	INTERGENIC			
SNP_66582_A_158372	NW_004515764.1	scaffold228	158372	AA	CC	CC	INTERGENIC			
SNP_66583_A_164607	NW_004515764.1	scaffold228	164607	GG	AA	AA	INTERGENIC			
SNP_66584_A_164612	NW_004515764.1	scaffold228	164612	GG	CC	CC	INTERGENIC			
SNP_66585_A_164733	NW_004515764.1	scaffold228	164733	AA	TT	TT	INTERGENIC			
SNP_66586_A_164800	NW_004515764.1	scaffold228	164800	CC	TT	TT	INTERGENIC			
SNP_66587_A_164801	NW_004515764.1	scaffold228	164801	CC	AA	AA	INTERGENIC			
SNP_66588_A_164805	NW_004515764.1	scaffold228	164805	GG	AA	AA	INTERGENIC			
SNP_66589_A_164809	NW_004515764.1	scaffold228	164809	TT	CC	CC	INTERGENIC			
SNP_66590_A_164811	NW_004515764.1	scaffold228	164811	GG	AA	AA	INTERGENIC			
SNP_66591_A_164891	NW_004515764.1	scaffold228	164891	CC	TT	TT	INTERGENIC			
SNP_66592_A_164908	NW_004515764.1	scaffold228	164908	CC	TT	TT	INTERGENIC			
SNP_66593_A_164910	NW_004515764.1	scaffold228	164910	AA	GG	GG	INTERGENIC			
SNP_66594_A_164932	NW_004515764.1	scaffold228	164932	GG	TT	TT	INTERGENIC			
SNP_66595_A_164936	NW_004515764.1	scaffold228	164936	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66596_A_165013	NW_004515764.1	scaffold228	165013	AA	GG	GG	INTERGENIC			
SNP_66597_A_165049	NW_004515764.1	scaffold228	165049	AA	GG	GG	INTERGENIC			
SNP_66598_A_165240	NW_004515764.1	scaffold228	165240	AA	GG	GG	INTERGENIC			
SNP_66599_A_174503	NW_004515764.1	scaffold228	174503	AA	TT	TT	INTERGENIC			
SNP_66600_A_174526	NW_004515764.1	scaffold228	174526	TT	AA	AA	INTERGENIC			
SNP_66601_A_174801	NW_004515764.1	scaffold228	174801	CC	TT	TT	INTERGENIC			
SNP_66602_A_176165	NW_004515764.1	scaffold228	176165	AA	CC	CC	INTERGENIC			
SNP_66603_A_176602	NW_004515764.1	scaffold228	176602	TT	CC	CC	INTERGENIC			
SNP_66604_A_176610	NW_004515764.1	scaffold228	176610	AA	GG	GG	INTERGENIC			
SNP_66605_A_176643	NW_004515764.1	scaffold228	176643	TT	GG	GG	INTERGENIC			
SNP_66606_A_176671	NW_004515764.1	scaffold228	176671	TT	AA	AA	INTERGENIC			
SNP_66608_A_177819	NW_004515764.1	scaffold228	177819	AA	GG	GG	INTERGENIC			
SNP_66609_A_177977	NW_004515764.1	scaffold228	177977	GG	AA	AA	INTERGENIC			
SNP_66610_A_178072	NW_004515764.1	scaffold228	178072	GG	AA	AA	INTERGENIC			
SNP_66611_A_178147	NW_004515764.1	scaffold228	178147	GG	AA	AA	INTERGENIC			
SNP_66612_A_179320	NW_004515764.1	scaffold228	179320	AA	GG	GG	INTERGENIC			
SNP_66613_A_179369	NW_004515764.1	scaffold228	179369	TT	CC	CC	INTERGENIC			
SNP_66614_A_179441	NW_004515764.1	scaffold228	179441	TT	CC	CC	INTERGENIC			
SNP_66615_A_179503	NW_004515764.1	scaffold228	179503	TT	CC	CC	INTERGENIC			
SNP_66616_A_179545	NW_004515764.1	scaffold228	179545	GG	CC	CC	INTERGENIC			
SNP_66617_A_179636	NW_004515764.1	scaffold228	179636	TT	CC	CC	INTERGENIC			
SNP_66618_A_179669	NW_004515764.1	scaffold228	179669	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66619_A_179903	NW_004515764.1	scaffold228	179903	TT	CC	CC	INTERGENIC			
SNP_66620_A_179914	NW_004515764.1	scaffold228	179914	GG	CC	CC	INTERGENIC			
SNP_66621_A_179919	NW_004515764.1	scaffold228	179919	CC	TT	TT	INTERGENIC			
SNP_66622_A_179925	NW_004515764.1	scaffold228	179925	CC	AA	AA	INTERGENIC			
SNP_66623_A_179946	NW_004515764.1	scaffold228	179946	TT	CC	CC	INTERGENIC			
SNP_66624_A_179976	NW_004515764.1	scaffold228	179976	TT	GG	GG	INTERGENIC			
SNP_66625_A_180110	NW_004515764.1	scaffold228	180110	TT	GG	GG	INTERGENIC			
SNP_66626_A_180502	NW_004515764.1	scaffold228	180502	AA	GG	GG	INTERGENIC			
SNP_66627_A_180704	NW_004515764.1	scaffold228	180704	AA	TT	TT	INTERGENIC			
SNP_66628_A_183303	NW_004515764.1	scaffold228	183303	AA	TT	TT	INTERGENIC			
SNP_66629_A_183325	NW_004515764.1	scaffold228	183325	TT	CC	CC	INTERGENIC			
SNP_66630_A_183361	NW_004515764.1	scaffold228	183361	TT	CC	CC	INTERGENIC			
SNP_66631_A_184339	NW_004515764.1	scaffold228	184339	GG	AA	AA	INTERGENIC			
SNP_66632_A_184357	NW_004515764.1	scaffold228	184357	CC	AA	AA	INTERGENIC			
SNP_66633_A_184374	NW_004515764.1	scaffold228	184374	AA	GG	GG	INTERGENIC			
SNP_66634_A_184391	NW_004515764.1	scaffold228	184391	AA	TT	TT	INTERGENIC			
SNP_66635_A_184552	NW_004515764.1	scaffold228	184552	AA	GG	GG	INTERGENIC			
SNP_66636_A_184571	NW_004515764.1	scaffold228	184571	TT	AA	AA	INTERGENIC			
SNP_66637_A_185410	NW_004515764.1	scaffold228	185410	TT	CC	CC	INTERGENIC			
SNP_66638_A_185459	NW_004515764.1	scaffold228	185459	AA	CC	CC	INTERGENIC			
SNP_66639_A_185822	NW_004515764.1	scaffold228	185822	CC	AA	AA	INTERGENIC			
SNP_66640_A_185914	NW_004515764.1	scaffold228	185914	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66641_A_186006	NW_004515764.1	scaffold228	186006	TT	CC	CC	INTERGENIC			
SNP_66642_A_186708	NW_004515764.1	scaffold228	186708	AA	CC	CC	INTERGENIC			
SNP_66643_A_186756	NW_004515764.1	scaffold228	186756	AA	GG	GG	INTERGENIC			
SNP_66644_A_187077	NW_004515764.1	scaffold228	187077	AA	GG	GG	INTERGENIC			
SNP_66645_A_187996	NW_004515764.1	scaffold228	187996	CC	TT	TT	INTERGENIC			
SNP_66646_A_188031	NW_004515764.1	scaffold228	188031	TT	CC	CC	INTERGENIC			
SNP_66647_A_188049	NW_004515764.1	scaffold228	188049	GG	AA	AA	INTERGENIC			
SNP_66648_A_188065	NW_004515764.1	scaffold228	188065	TT	CC	CC	INTERGENIC			
SNP_66649_A_188269	NW_004515764.1	scaffold228	188269	AA	CC	CC	INTERGENIC			
SNP_66650_A_188400	NW_004515764.1	scaffold228	188400	GG	AA	AA	INTERGENIC			
SNP_66651_A_188442	NW_004515764.1	scaffold228	188442	GG	AA	AA	INTERGENIC			
SNP_66652_A_188492	NW_004515764.1	scaffold228	188492	GG	AA	AA	INTERGENIC			
SNP_66653_A_188553	NW_004515764.1	scaffold228	188553	CC	TT	TT	INTERGENIC			
SNP_66654_A_188645	NW_004515764.1	scaffold228	188645	TT	AA	AA	INTERGENIC			
SNP_66655_A_188891	NW_004515764.1	scaffold228	188891	GG	AA	AA	INTERGENIC			
SNP_66656_A_189018	NW_004515764.1	scaffold228	189018	CC	AA	AA	INTERGENIC			
SNP_66657_A_13522	NW_004515765.1	scaffold229	13522	AA	TT	TT	INTERGENIC			
SNP_66658_A_13581	NW_004515765.1	scaffold229	13581	AA	CC	CC	INTERGENIC			
SNP_66660_A_33544	NW_004515765.1	scaffold229	33544	AA	GG	GG	INTERGENIC			
SNP_66661_A_33781	NW_004515765.1	scaffold229	33781	AA	GG	GG	INTERGENIC			
SNP_66662_A_36784	NW_004515765.1	scaffold229	36784	AA	TT	TT	INTERGENIC			
SNP_66663_A_36901	NW_004515765.1	scaffold229	36901	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66664_A_36915	NW_004515765.1	scaffold229	36915	CC	TT	TT	INTERGENIC			
SNP_66665_A_47686	NW_004515765.1	scaffold229	47686	TT	AA	AA	INTERGENIC			
SNP_66666_A_48885	NW_004515765.1	scaffold229	48885	AA	GG	GG	INTERGENIC			
SNP_66667_A_49137	NW_004515765.1	scaffold229	49137	TT	AA	AA	INTERGENIC			
SNP_66668_A_49170	NW_004515765.1	scaffold229	49170	GG	AA	AA	INTERGENIC			
SNP_66669_A_73436	NW_004515765.1	scaffold229	73436	TT	AA	AA	INTERGENIC			
SNP_66671_A_82193	NW_004515765.1	scaffold229	82193	GG	CC	CC	INTERGENIC			
SNP_66672_A_82226	NW_004515765.1	scaffold229	82226	TT	CC	CC	INTERGENIC			
SNP_66673_A_82651	NW_004515765.1	scaffold229	82651	AA	GG	GG	INTERGENIC			
SNP_66674_A_97864	NW_004515765.1	scaffold229	97864	AA	CC	CC	INTERGENIC			
SNP_66675_A_97876	NW_004515765.1	scaffold229	97876	GG	AA	AA	INTERGENIC			
SNP_66676_A_102931	NW_004515765.1	scaffold229	102931	TT	CC	CC	INTERGENIC			
SNP_66677_A_102997	NW_004515765.1	scaffold229	102997	AA	CC	CC	INTERGENIC			
SNP_66678_A_106378	NW_004515765.1	scaffold229	106378	AA	TT	TT	INTERGENIC			
SNP_66679_A_114183	NW_004515765.1	scaffold229	114183	TT	CC	CC	INTERGENIC			
SNP_66680_A_114591	NW_004515765.1	scaffold229	114591	CC	AA	AA	INTERGENIC			
SNP_66681_A_114628	NW_004515765.1	scaffold229	114628	AA	CC	CC	INTERGENIC			
SNP_66682_A_114636	NW_004515765.1	scaffold229	114636	CC	GG	GG	INTERGENIC			
SNP_66683_A_114638	NW_004515765.1	scaffold229	114638	GG	CC	CC	INTERGENIC			
SNP_66684_A_114645	NW_004515765.1	scaffold229	114645	TT	GG	GG	INTERGENIC			
SNP_66685_A_116639	NW_004515765.1	scaffold229	116639	AA	GG	GG	INTERGENIC			
SNP_66686_A_126420	NW_004515765.1	scaffold229	126420	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66687_A_156314	NW_004515765.1	scaffold229	156314	AA	CC	CC	INTERGENIC			
SNP_66688_A_160660	NW_004515765.1	scaffold229	160660	TT	AA	AA	INTERGENIC			
SNP_66689_A_160669	NW_004515765.1	scaffold229	160669	GG	AA	AA	INTERGENIC			
SNP_66690_A_160701	NW_004515765.1	scaffold229	160701	TT	CC	CC	INTERGENIC			
SNP_66691_A_160764	NW_004515765.1	scaffold229	160764	AA	GG	GG	INTERGENIC			
SNP_66692_A_160789	NW_004515765.1	scaffold229	160789	AA	GG	GG	INTERGENIC			
SNP_66693_A_10331	NW_004515766.1	scaffold231	10331	CC	GG	GG	INTERGENIC			
SNP_66694_A_27393	NW_004515766.1	scaffold231	27393	GG	TT	TT	INTERGENIC			
SNP_66695_A_42137	NW_004515769.1	scaffold235	42137	AA	CC	CC	INTERGENIC			
SNP_66696_A_47067	NW_004515769.1	scaffold235	47067	AA	CC	CC	INTERGENIC			
SNP_66697_A_47146	NW_004515769.1	scaffold235	47146	AA	GG	GG	INTERGENIC			
SNP_66698_A_47181	NW_004515769.1	scaffold235	47181	AA	TT	TT	INTERGENIC			
SNP_66699_A_47544	NW_004515769.1	scaffold235	47544	AA	GG	GG	INTERGENIC			
SNP_66700_A_47549	NW_004515769.1	scaffold235	47549	CC	TT	TT	INTERGENIC			
SNP_66701_A_48003	NW_004515769.1	scaffold235	48003	CC	TT	TT	INTERGENIC			
SNP_66702_A_57284	NW_004515769.1	scaffold235	57284	CC	AA	AA	INTERGENIC			
SNP_66704_A_99402	NW_004515769.1	scaffold235	99402	AA	GG	GG	INTERGENIC			
SNP_66706_A_101181	NW_004515769.1	scaffold235	101181	GG	AA	AA	INTERGENIC			
SNP_66707_A_101225	NW_004515769.1	scaffold235	101225	CC	TT	TT	INTERGENIC			
SNP_66708_A_101259	NW_004515769.1	scaffold235	101259	GG	AA	AA	INTERGENIC			
SNP_66709_A_108073	NW_004515769.1	scaffold235	108073	GG	AA	AA	INTERGENIC			
SNP_66710_A_149014	NW_004515769.1	scaffold235	149014	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66711_A_149019	NW_004515769.1	scaffold235	149019	TT	AA	AA	INTERGENIC		
SNP_66712_A_149020	NW_004515769.1	scaffold235	149020	CC	TT	TT	INTERGENIC		
SNP_66713_A_149049	NW_004515769.1	scaffold235	149049	GG	CC	CC	INTERGENIC		
SNP_66714_A_162935	NW_004515769.1	scaffold235	162935	GG	AA	AA	INTERGENIC		
SNP_66716_A_205257	NW_004515769.1	scaffold235	205257	GG	AA	AA	INTERGENIC		
SNP_66717_A_205288	NW_004515769.1	scaffold235	205288	AA	GG	GG	INTERGENIC		
SNP_66718_A_205328	NW_004515769.1	scaffold235	205328	AA	GG	GG	INTERGENIC		
SNP_66719_A_205335	NW_004515769.1	scaffold235	205335	GG	AA	AA	INTERGENIC		
SNP_66720_A_205384	NW_004515769.1	scaffold235	205384	AA	CC	CC	INTERGENIC		
SNP_66721_A_205388	NW_004515769.1	scaffold235	205388	TT	CC	CC	INTERGENIC		
SNP_66722_A_205413	NW_004515769.1	scaffold235	205413	GG	AA	AA	INTERGENIC		
SNP_66723_A_205430	NW_004515769.1	scaffold235	205430	GG	TT	TT	INTERGENIC		
SNP_66724_A_205435	NW_004515769.1	scaffold235	205435	GG	CC	CC	INTERGENIC		
SNP_66725_A_205514	NW_004515769.1	scaffold235	205514	CC	TT	TT	INTERGENIC		
SNP_66726_A_205535	NW_004515769.1	scaffold235	205535	TT	CC	CC	INTERGENIC		
SNP_66727_A_205554	NW_004515769.1	scaffold235	205554	TT	CC	CC	INTERGENIC		
SNP_66728_A_205604	NW_004515769.1	scaffold235	205604	TT	GG	GG	INTERGENIC		
SNP_66729_A_231848	NW_004515769.1	scaffold235	231848	GG	AA	AA	INTERGENIC		
SNP_66730_A_2258	NW_004515770.1	scaffold236	2258	TT	GG	GG	INTRON	101515634	uncharacterized LOC101515634
SNP_66731_A_5195	NW_004515770.1	scaffold236	5195	TT	GG	GG	INTERGENIC		
SNP_66732_A_5285	NW_004515770.1	scaffold236	5285	AA	GG	GG	INTERGENIC		
SNP_66733_A_5365	NW_004515770.1	scaffold236	5365	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66734_A_5485	NW_004515770.1	scaffold236	5485	AA	GG	GG	INTERGENIC		
SNP_66735_A_15839	NW_004515770.1	scaffold236	15839	GG	AA	AA	INTERGENIC		
SNP_66736_A_16147	NW_004515770.1	scaffold236	16147	AA	CC	CC	INTERGENIC		
SNP_66737_A_16148	NW_004515770.1	scaffold236	16148	TT	AA	AA	INTERGENIC		
SNP_66738_A_17123	NW_004515770.1	scaffold236	17123	CC	GG	GG	INTERGENIC		
SNP_66739_A_17127	NW_004515770.1	scaffold236	17127	AA	GG	GG	INTERGENIC		
SNP_66740_A_17333	NW_004515770.1	scaffold236	17333	CC	AA	AA	INTERGENIC		
SNP_66741_A_23066	NW_004515770.1	scaffold236	23066	TT	AA	AA	INTRON	101488388	Unknown function
SNP_66742_A_23092	NW_004515770.1	scaffold236	23092	CC	AA	AA	INTRON	101488388	Unknown function
SNP_66743_A_23099	NW_004515770.1	scaffold236	23099	CC	TT	TT	INTRON	101488388	Unknown function
SNP_66744_A_23112	NW_004515770.1	scaffold236	23112	AA	GG	GG	INTRON	101488388	Unknown function
SNP_66745_A_23131	NW_004515770.1	scaffold236	23131	CC	TT	TT	INTRON	101488388	Unknown function
SNP_66746_A_23133	NW_004515770.1	scaffold236	23133	GG	TT	TT	INTRON	101488388	Unknown function
SNP_66747_A_23166	NW_004515770.1	scaffold236	23166	TT	CC	CC	INTRON	101488388	Unknown function
SNP_66748_A_23468	NW_004515770.1	scaffold236	23468	AA	TT	TT	NON_SYNONYMOUS_CODING	101488388	Unknown function
SNP_66749_A_23561	NW_004515770.1	scaffold236	23561	AA	GG	GG	INTRON	101488388	Unknown function
SNP_66750_A_23608	NW_004515770.1	scaffold236	23608	AA	GG	GG	SYNONYMOUS_CODING	101488388	Unknown function
SNP_66751_A_23827	NW_004515770.1	scaffold236	23827	AA	GG	GG	NON_SYNONYMOUS_CODING	101488388	Unknown function
SNP_66752_A_23964	NW_004515770.1	scaffold236	23964	TT	CC	CC	NON_SYNONYMOUS_CODING	101488388	Unknown function
SNP_66753_A_23971	NW_004515770.1	scaffold236	23971	CC	TT	TT	NON_SYNONYMOUS_CODING	101488388	Unknown function
SNP_66754_A_25477	NW_004515770.1	scaffold236	25477	AA	GG	GG	URR	101488388	Unknown function
SNP_66755_A_25613	NW_004515770.1	scaffold236	25613	GG	AA	AA	URR	101488388	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66756_A_25617	NW_004515770.1	scaffold236	25617	AA	TT	TT	URR	101488388	Unknown function
SNP_66757_A_25688	NW_004515770.1	scaffold236	25688	CC	AA	AA	URR	101488388	Unknown function
SNP_66758_A_25872	NW_004515770.1	scaffold236	25872	TT	CC	CC	URR	101488388	Unknown function
SNP_66759_A_25889	NW_004515770.1	scaffold236	25889	GG	TT	TT	URR	101488388	Unknown function
SNP_66760_A_26025	NW_004515770.1	scaffold236	26025	CC	TT	TT	URR	101488388	Unknown function
SNP_66761_A_26040	NW_004515770.1	scaffold236	26040	CC	TT	TT	URR	101488388	Unknown function
SNP_66762_A_26083	NW_004515770.1	scaffold236	26083	AA	TT	TT	URR	101488388	Unknown function
SNP_66763_A_26238	NW_004515770.1	scaffold236	26238	GG	AA	AA	INTERGENIC		
SNP_66764_A_26618	NW_004515770.1	scaffold236	26618	TT	CC	CC	INTERGENIC		
SNP_66765_A_26718	NW_004515770.1	scaffold236	26718	CC	TT	TT	INTERGENIC		
SNP_66766_A_26863	NW_004515770.1	scaffold236	26863	AA	CC	CC	INTERGENIC		
SNP_66767_A_26894	NW_004515770.1	scaffold236	26894	AA	TT	TT	INTERGENIC		
SNP_66768_A_26947	NW_004515770.1	scaffold236	26947	AA	GG	GG	INTERGENIC		
SNP_66769_A_26954	NW_004515770.1	scaffold236	26954	AA	CC	CC	INTERGENIC		
SNP_66770_A_27495	NW_004515770.1	scaffold236	27495	TT	CC	CC	INTERGENIC		
SNP_66771_A_29072	NW_004515770.1	scaffold236	29072	TT	AA	AA	INTERGENIC		
SNP_66772_A_29100	NW_004515770.1	scaffold236	29100	GG	AA	AA	INTERGENIC		
SNP_66773_A_29128	NW_004515770.1	scaffold236	29128	CC	AA	AA	INTERGENIC		
SNP_66774_A_29131	NW_004515770.1	scaffold236	29131	CC	TT	TT	INTERGENIC		
SNP_66775_A_29223	NW_004515770.1	scaffold236	29223	AA	GG	GG	INTERGENIC		
SNP_66776_A_29243	NW_004515770.1	scaffold236	29243	TT	CC	CC	INTERGENIC		
SNP_66777_A_29525	NW_004515770.1	scaffold236	29525	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66778_A_29671	NW_004515770.1	scaffold236	29671	TT	AA	AA	INTERGENIC			
SNP_66779_A_29795	NW_004515770.1	scaffold236	29795	CC	TT	TT	INTERGENIC			
SNP_66780_A_29836	NW_004515770.1	scaffold236	29836	GG	TT	TT	INTERGENIC			
SNP_66781_A_29865	NW_004515770.1	scaffold236	29865	AA	TT	TT	INTERGENIC			
SNP_66782_A_30822	NW_004515770.1	scaffold236	30822	CC	AA	AA	INTERGENIC			
SNP_66783_A_31537	NW_004515770.1	scaffold236	31537	CC	TT	TT	INTERGENIC			
SNP_66784_A_31607	NW_004515770.1	scaffold236	31607	GG	AA	AA	INTERGENIC			
SNP_66785_A_36327	NW_004515770.1	scaffold236	36327	GG	AA	AA	INTERGENIC			
SNP_66786_A_41629	NW_004515770.1	scaffold236	41629	GG	TT	TT	INTERGENIC			
SNP_66787_A_42201	NW_004515770.1	scaffold236	42201	GG	TT	TT	INTERGENIC			
SNP_66788_A_42733	NW_004515770.1	scaffold236	42733	GG	AA	AA	INTERGENIC			
SNP_66789_A_43130	NW_004515770.1	scaffold236	43130	CC	TT	TT	INTERGENIC			
SNP_66790_A_43261	NW_004515770.1	scaffold236	43261	GG	AA	AA	INTERGENIC			
SNP_66791_A_44115	NW_004515770.1	scaffold236	44115	TT	CC	CC	INTERGENIC			
SNP_66792_A_45300	NW_004515770.1	scaffold236	45300	GG	CC	CC	INTERGENIC			
SNP_66794_A_45586	NW_004515770.1	scaffold236	45586	CC	TT	TT	INTERGENIC			
SNP_66795_A_45597	NW_004515770.1	scaffold236	45597	GG	TT	TT	INTERGENIC			
SNP_66796_A_45621	NW_004515770.1	scaffold236	45621	CC	GG	GG	INTERGENIC			
SNP_66797_A_45746	NW_004515770.1	scaffold236	45746	AA	GG	GG	INTERGENIC			
SNP_66798_A_45990	NW_004515770.1	scaffold236	45990	CC	TT	TT	INTERGENIC			
SNP_66799_A_46054	NW_004515770.1	scaffold236	46054	AA	GG	GG	INTERGENIC			
SNP_66800_A_46405	NW_004515770.1	scaffold236	46405	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66801_A_51701	NW_004515770.1	scaffold236	51701	AA	TT	TT	INTERGENIC		
SNP_66802_A_51927	NW_004515770.1	scaffold236	51927	TT	CC	CC	INTERGENIC		
SNP_66803_A_51942	NW_004515770.1	scaffold236	51942	GG	TT	TT	INTERGENIC		
SNP_66804_A_52077	NW_004515770.1	scaffold236	52077	CC	GG	GG	INTERGENIC		
SNP_66805_A_52440	NW_004515770.1	scaffold236	52440	CC	TT	TT	INTERGENIC		
SNP_66806_A_53451	NW_004515770.1	scaffold236	53451	GG	TT	TT	INTERGENIC		
SNP_66807_A_59223	NW_004515770.1	scaffold236	59223	GG	CC	CC	INTERGENIC		
SNP_66808_A_59538	NW_004515770.1	scaffold236	59538	TT	GG	GG	INTERGENIC		
SNP_66809_A_59636	NW_004515770.1	scaffold236	59636	CC	GG	GG	INTERGENIC		
SNP_66810_A_59907	NW_004515770.1	scaffold236	59907	GG	AA	AA	INTERGENIC		
SNP_66812_A_60221	NW_004515770.1	scaffold236	60221	AA	TT	TT	INTERGENIC		
SNP_66813_A_64301	NW_004515770.1	scaffold236	64301	GG	AA	AA	NON_SYNONYMOUS_CODING	101488714	Unknown function
SNP_66814_A_66326	NW_004515770.1	scaffold236	66326	GG	CC	CC	URR	101488714	Unknown function
SNP_66815_A_71890	NW_004515770.1	scaffold236	71890	TT	AA	AA	INTERGENIC		
SNP_66816_A_71934	NW_004515770.1	scaffold236	71934	CC	TT	TT	INTERGENIC		
SNP_66817_A_2477	NW_004515771.1	scaffold237	2477	TT	CC	CC	INTERGENIC		
SNP_66818_A_16147	NW_004515771.1	scaffold237	16147	AA	TT	TT	INTERGENIC		
SNP_66819_A_16150	NW_004515771.1	scaffold237	16150	AA	CC	CC	INTERGENIC		
SNP_66820_A_16243	NW_004515771.1	scaffold237	16243	TT	GG	GG	INTERGENIC		
SNP_66821_A_16499	NW_004515771.1	scaffold237	16499	AA	GG	GG	INTERGENIC		
SNP_66822_A_16845	NW_004515771.1	scaffold237	16845	CC	AA	AA	INTERGENIC		
SNP_66823_A_22128	NW_004515771.1	scaffold237	22128	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66824_A_22407	NW_004515771.1	scaffold237	22407	CC	TT	TT	INTERGENIC			
SNP_66825_A_22417	NW_004515771.1	scaffold237	22417	TT	AA	AA	INTERGENIC			
SNP_66826_A_22418	NW_004515771.1	scaffold237	22418	AA	GG	GG	INTERGENIC			
SNP_66827_A_22462	NW_004515771.1	scaffold237	22462	AA	CC	CC	INTERGENIC			
SNP_66828_A_22554	NW_004515771.1	scaffold237	22554	TT	AA	AA	INTERGENIC			
SNP_66829_A_22632	NW_004515771.1	scaffold237	22632	CC	TT	TT	INTERGENIC			
SNP_66830_A_22670	NW_004515771.1	scaffold237	22670	GG	AA	AA	INTERGENIC			
SNP_66831_A_22837	NW_004515771.1	scaffold237	22837	TT	CC	CC	INTERGENIC			
SNP_66832_A_22950	NW_004515771.1	scaffold237	22950	AA	GG	GG	INTERGENIC			
SNP_66833_A_52617	NW_004515771.1	scaffold237	52617	TT	AA	AA	INTERGENIC			
SNP_66834_A_52899	NW_004515771.1	scaffold237	52899	TT	GG	GG	INTERGENIC			
SNP_66835_A_57696	NW_004515771.1	scaffold237	57696	CC	AA	AA	INTERGENIC			
SNP_66836_A_57964	NW_004515771.1	scaffold237	57964	AA	TT	TT	INTERGENIC			
SNP_66837_A_58051	NW_004515771.1	scaffold237	58051	CC	GG	GG	INTERGENIC			
SNP_66838_A_58105	NW_004515771.1	scaffold237	58105	TT	CC	CC	INTERGENIC			
SNP_66839_A_58363	NW_004515771.1	scaffold237	58363	TT	GG	GG	INTERGENIC			
SNP_66840_A_58445	NW_004515771.1	scaffold237	58445	AA	TT	TT	INTERGENIC			
SNP_66841_A_58455	NW_004515771.1	scaffold237	58455	AA	GG	GG	INTERGENIC			
SNP_66842_A_60074	NW_004515771.1	scaffold237	60074	AA	GG	GG	INTERGENIC			
SNP_66843_A_71142	NW_004515771.1	scaffold237	71142	CC	AA	AA	INTERGENIC			
SNP_66844_A_71585	NW_004515771.1	scaffold237	71585	TT	GG	GG	INTERGENIC			
SNP_66845_A_629	NW_004515772.1	scaffold238	629	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66846_A_643	NW_004515772.1	scaffold238	643	GG	TT	TT	INTERGENIC			
SNP_66847_A_688	NW_004515772.1	scaffold238	688	AA	GG	GG	INTERGENIC			
SNP_66848_A_731	NW_004515772.1	scaffold238	731	CC	TT	TT	INTERGENIC			
SNP_66849_A_928	NW_004515772.1	scaffold238	928	TT	AA	AA	INTERGENIC			
SNP_66850_A_1092	NW_004515772.1	scaffold238	1092	GG	AA	AA	INTERGENIC			
SNP_66851_A_1102	NW_004515772.1	scaffold238	1102	TT	GG	GG	INTERGENIC			
SNP_66852_A_1111	NW_004515772.1	scaffold238	1111	AA	GG	GG	INTERGENIC			
SNP_66853_A_1155	NW_004515772.1	scaffold238	1155	TT	CC	CC	INTERGENIC			
SNP_66854_A_1169	NW_004515772.1	scaffold238	1169	TT	CC	CC	INTERGENIC			
SNP_66855_A_1259	NW_004515772.1	scaffold238	1259	TT	AA	AA	INTERGENIC			
SNP_66856_A_1291	NW_004515772.1	scaffold238	1291	AA	CC	CC	INTERGENIC			
SNP_66857_A_1342	NW_004515772.1	scaffold238	1342	CC	TT	TT	INTERGENIC			
SNP_66858_A_1381	NW_004515772.1	scaffold238	1381	TT	AA	AA	INTERGENIC			
SNP_66859_A_4443	NW_004515772.1	scaffold238	4443	AA	TT	TT	INTERGENIC			
SNP_66860_A_13670	NW_004515772.1	scaffold238	13670	CC	AA	AA	INTERGENIC			
SNP_66861_A_17464	NW_004515772.1	scaffold238	17464	AA	TT	TT	INTERGENIC			
SNP_66862_A_18915	NW_004515772.1	scaffold238	18915	TT	CC	CC	INTERGENIC			
SNP_66863_A_18933	NW_004515772.1	scaffold238	18933	AA	GG	GG	INTERGENIC			
SNP_66864_A_18941	NW_004515772.1	scaffold238	18941	CC	TT	TT	INTERGENIC			
SNP_66865_A_19191	NW_004515772.1	scaffold238	19191	TT	AA	AA	INTERGENIC			
SNP_66866_A_19227	NW_004515772.1	scaffold238	19227	AA	CC	CC	INTERGENIC			
SNP_66867_A_20672	NW_004515772.1	scaffold238	20672	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66868_A_20675	NW_004515772.1	scaffold238	20675	AA	CC	CC	INTERGENIC			
SNP_66869_A_21094	NW_004515772.1	scaffold238	21094	CC	AA	AA	INTERGENIC			
SNP_66870_A_23823	NW_004515772.1	scaffold238	23823	AA	TT	TT	INTERGENIC			
SNP_66871_A_23849	NW_004515772.1	scaffold238	23849	CC	TT	TT	INTERGENIC			
SNP_66872_A_23915	NW_004515772.1	scaffold238	23915	AA	GG	GG	INTERGENIC			
SNP_66873_A_23964	NW_004515772.1	scaffold238	23964	CC	TT	TT	INTERGENIC			
SNP_66874_A_27241	NW_004515772.1	scaffold238	27241	CC	TT	TT	INTERGENIC			
SNP_66875_A_27371	NW_004515772.1	scaffold238	27371	CC	AA	AA	INTERGENIC			
SNP_66876_A_27705	NW_004515772.1	scaffold238	27705	TT	CC	CC	INTERGENIC			
SNP_66877_A_5061	NW_004515773.1	scaffold239	5061	AA	GG	GG	INTERGENIC			
SNP_66878_A_15110	NW_004515773.1	scaffold239	15110	TT	AA	AA	INTERGENIC			
SNP_66879_A_15332	NW_004515773.1	scaffold239	15332	GG	AA	AA	INTERGENIC			
SNP_66880_A_19647	NW_004515773.1	scaffold239	19647	CC	AA	AA	INTERGENIC			
SNP_66881_A_19649	NW_004515773.1	scaffold239	19649	CC	AA	AA	INTERGENIC			
SNP_66882_A_28065	NW_004515773.1	scaffold239	28065	AA	TT	TT	INTERGENIC			
SNP_66883_A_36989	NW_004515773.1	scaffold239	36989	CC	AA	AA	INTERGENIC			
SNP_66884_A_49915	NW_004515773.1	scaffold239	49915	CC	TT	TT	INTERGENIC			
SNP_66885_A_49921	NW_004515773.1	scaffold239	49921	AA	TT	TT	INTERGENIC			
SNP_66886_A_49923	NW_004515773.1	scaffold239	49923	AA	TT	TT	INTERGENIC			
SNP_66887_A_49950	NW_004515773.1	scaffold239	49950	AA	GG	GG	INTERGENIC			
SNP_66888_A_50183	NW_004515773.1	scaffold239	50183	AA	TT	TT	INTERGENIC			
SNP_66889_A_50184	NW_004515773.1	scaffold239	50184	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66890_A_50210	NW_004515773.1	scaffold239	50210	AA	CC	CC	INTERGENIC			
SNP_66891_A_50213	NW_004515773.1	scaffold239	50213	TT	AA	AA	INTERGENIC			
SNP_66892_A_50221	NW_004515773.1	scaffold239	50221	GG	AA	AA	INTERGENIC			
SNP_66893_A_50224	NW_004515773.1	scaffold239	50224	AA	TT	TT	INTERGENIC			
SNP_66894_A_50232	NW_004515773.1	scaffold239	50232	GG	AA	AA	INTERGENIC			
SNP_66896_A_50292	NW_004515773.1	scaffold239	50292	TT	CC	CC	INTERGENIC			
SNP_66897_A_50357	NW_004515773.1	scaffold239	50357	AA	GG	GG	INTERGENIC			
SNP_66898_A_50581	NW_004515773.1	scaffold239	50581	GG	AA	AA	INTERGENIC			
SNP_66899_A_50588	NW_004515773.1	scaffold239	50588	AA	GG	GG	INTERGENIC			
SNP_66900_A_53907	NW_004515773.1	scaffold239	53907	CC	GG	GG	INTERGENIC			
SNP_66901_A_54148	NW_004515773.1	scaffold239	54148	TT	AA	AA	INTERGENIC			
SNP_66902_A_55779	NW_004515773.1	scaffold239	55779	AA	TT	TT	INTERGENIC			
SNP_66903_A_64794	NW_004515773.1	scaffold239	64794	TT	CC	CC	INTERGENIC			
SNP_66904_A_64796	NW_004515773.1	scaffold239	64796	CC	TT	TT	INTERGENIC			
SNP_66905_A_64813	NW_004515773.1	scaffold239	64813	TT	GG	GG	INTERGENIC			
SNP_66906_A_76056	NW_004515773.1	scaffold239	76056	AA	CC	CC	INTERGENIC			
SNP_66907_A_81010	NW_004515773.1	scaffold239	81010	TT	AA	AA	INTERGENIC			
SNP_66908_A_83787	NW_004515773.1	scaffold239	83787	TT	CC	CC	INTERGENIC			
SNP_66909_A_85004	NW_004515773.1	scaffold239	85004	AA	GG	GG	INTERGENIC			
SNP_66910_A_89206	NW_004515773.1	scaffold239	89206	GG	AA	AA	INTERGENIC			
SNP_66911_A_89222	NW_004515773.1	scaffold239	89222	CC	TT	TT	INTERGENIC			
SNP_66912_A_89296	NW_004515773.1	scaffold239	89296	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66913_A_89375	NW_004515773.1	scaffold239	89375	GG	TT	TT	INTERGENIC			
SNP_66914_A_89387	NW_004515773.1	scaffold239	89387	CC	AA	AA	INTERGENIC			
SNP_66915_A_89475	NW_004515773.1	scaffold239	89475	AA	GG	GG	INTERGENIC			
SNP_66916_A_89477	NW_004515773.1	scaffold239	89477	GG	CC	CC	INTERGENIC			
SNP_66917_A_89484	NW_004515773.1	scaffold239	89484	AA	GG	GG	INTERGENIC			
SNP_66918_A_89667	NW_004515773.1	scaffold239	89667	TT	CC	CC	INTERGENIC			
SNP_66919_A_89681	NW_004515773.1	scaffold239	89681	AA	TT	TT	INTERGENIC			
SNP_66920_A_89718	NW_004515773.1	scaffold239	89718	CC	AA	AA	INTERGENIC			
SNP_66921_A_89801	NW_004515773.1	scaffold239	89801	GG	AA	AA	INTERGENIC			
SNP_66922_A_89802	NW_004515773.1	scaffold239	89802	GG	AA	AA	INTERGENIC			
SNP_66923_A_89836	NW_004515773.1	scaffold239	89836	CC	TT	TT	INTERGENIC			
SNP_66924_A_89900	NW_004515773.1	scaffold239	89900	TT	AA	AA	INTERGENIC			
SNP_66925_A_89991	NW_004515773.1	scaffold239	89991	TT	AA	AA	INTERGENIC			
SNP_66926_A_90011	NW_004515773.1	scaffold239	90011	CC	AA	AA	INTERGENIC			
SNP_66927_A_90065	NW_004515773.1	scaffold239	90065	GG	CC	CC	INTERGENIC			
SNP_66928_A_90070	NW_004515773.1	scaffold239	90070	CC	TT	TT	INTERGENIC			
SNP_66929_A_96743	NW_004515773.1	scaffold239	96743	GG	AA	AA	INTERGENIC			
SNP_66930_A_96778	NW_004515773.1	scaffold239	96778	GG	TT	TT	INTERGENIC			
SNP_66931_A_96793	NW_004515773.1	scaffold239	96793	AA	TT	TT	INTERGENIC			
SNP_66932_A_97093	NW_004515773.1	scaffold239	97093	AA	GG	GG	INTERGENIC			
SNP_66933_A_97379	NW_004515773.1	scaffold239	97379	CC	TT	TT	INTERGENIC			
SNP_66934_A_97493	NW_004515773.1	scaffold239	97493	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66935_A_97504	NW_004515773.1	scaffold239	97504	CC	GG	GG	INTERGENIC			
SNP_66936_A_97574	NW_004515773.1	scaffold239	97574	CC	TT	TT	INTERGENIC			
SNP_66937_A_97611	NW_004515773.1	scaffold239	97611	TT	CC	CC	INTERGENIC			
SNP_66938_A_97676	NW_004515773.1	scaffold239	97676	TT	CC	CC	INTERGENIC			
SNP_66939_A_97712	NW_004515773.1	scaffold239	97712	AA	CC	CC	INTERGENIC			
SNP_66940_A_97748	NW_004515773.1	scaffold239	97748	CC	TT	TT	INTERGENIC			
SNP_66941_A_97799	NW_004515773.1	scaffold239	97799	GG	TT	TT	INTERGENIC			
SNP_66942_A_97962	NW_004515773.1	scaffold239	97962	TT	CC	CC	INTERGENIC			
SNP_66943_A_97978	NW_004515773.1	scaffold239	97978	CC	TT	TT	INTERGENIC			
SNP_66944_A_98019	NW_004515773.1	scaffold239	98019	TT	AA	AA	INTERGENIC			
SNP_66945_A_98034	NW_004515773.1	scaffold239	98034	CC	GG	GG	INTERGENIC			
SNP_66946_A_98044	NW_004515773.1	scaffold239	98044	GG	TT	TT	INTERGENIC			
SNP_66947_A_98061	NW_004515773.1	scaffold239	98061	TT	AA	AA	INTERGENIC			
SNP_66948_A_98104	NW_004515773.1	scaffold239	98104	CC	GG	GG	INTERGENIC			
SNP_66949_A_98121	NW_004515773.1	scaffold239	98121	GG	AA	AA	INTERGENIC			
SNP_66950_A_98176	NW_004515773.1	scaffold239	98176	TT	CC	CC	INTERGENIC			
SNP_66951_A_98177	NW_004515773.1	scaffold239	98177	GG	AA	AA	INTERGENIC			
SNP_66952_A_98182	NW_004515773.1	scaffold239	98182	AA	CC	CC	INTERGENIC			
SNP_66953_A_98197	NW_004515773.1	scaffold239	98197	CC	TT	TT	INTERGENIC			
SNP_66954_A_98221	NW_004515773.1	scaffold239	98221	GG	AA	AA	INTERGENIC			
SNP_66955_A_98237	NW_004515773.1	scaffold239	98237	TT	CC	CC	INTERGENIC			
SNP_66956_A_98263	NW_004515773.1	scaffold239	98263	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_66957_A_98313	NW_004515773.1	scaffold239	98313	CC	TT	TT	INTERGENIC			
SNP_66958_A_98339	NW_004515773.1	scaffold239	98339	TT	CC	CC	INTERGENIC			
SNP_66959_A_98360	NW_004515773.1	scaffold239	98360	TT	AA	AA	INTERGENIC			
SNP_66960_A_98363	NW_004515773.1	scaffold239	98363	GG	TT	TT	INTERGENIC			
SNP_66961_A_98371	NW_004515773.1	scaffold239	98371	TT	GG	GG	INTERGENIC			
SNP_66962_A_98372	NW_004515773.1	scaffold239	98372	TT	CC	CC	INTERGENIC			
SNP_66963_A_98401	NW_004515773.1	scaffold239	98401	TT	AA	AA	INTERGENIC			
SNP_66964_A_98434	NW_004515773.1	scaffold239	98434	GG	TT	TT	INTERGENIC			
SNP_66965_A_98439	NW_004515773.1	scaffold239	98439	TT	AA	AA	INTERGENIC			
SNP_66966_A_98711	NW_004515773.1	scaffold239	98711	GG	AA	AA	INTERGENIC			
SNP_66968_A_109683	NW_004515773.1	scaffold239	109683	AA	GG	GG	INTERGENIC			
SNP_66969_A_109888	NW_004515773.1	scaffold239	109888	GG	TT	TT	INTERGENIC			
SNP_66970_A_109954	NW_004515773.1	scaffold239	109954	CC	TT	TT	INTERGENIC			
SNP_66971_A_2036	NW_004515774.1	scaffold240	2036	GG	CC	CC	INTERGENIC			
SNP_66972_A_4629	NW_004515774.1	scaffold240	4629	CC	TT	TT	INTERGENIC			
SNP_66973_A_38660	NW_004515774.1	scaffold240	38660	GG	AA	AA	INTERGENIC			
SNP_66975_A_69829	NW_004515774.1	scaffold240	69829	TT	CC	CC	INTERGENIC			
SNP_66976_A_73014	NW_004515774.1	scaffold240	73014	TT	GG	GG	INTERGENIC			
SNP_66977_A_73019	NW_004515774.1	scaffold240	73019	GG	AA	AA	INTERGENIC			
SNP_66978_A_73052	NW_004515774.1	scaffold240	73052	CC	TT	TT	INTERGENIC			
SNP_66979_A_73069	NW_004515774.1	scaffold240	73069	TT	AA	AA	INTERGENIC			
SNP_66980_A_73119	NW_004515774.1	scaffold240	73119	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_66982_A_73525	NW_004515774.1	scaffold240	73525	AA	CC	CC	INTERGENIC		
SNP_66983_A_73530	NW_004515774.1	scaffold240	73530	TT	AA	AA	INTERGENIC		
SNP_66984_A_73554	NW_004515774.1	scaffold240	73554	TT	GG	GG	INTERGENIC		
SNP_66985_A_73557	NW_004515774.1	scaffold240	73557	TT	GG	GG	INTERGENIC		
SNP_66986_A_83681	NW_004515774.1	scaffold240	83681	GG	AA	AA	INTERGENIC		
SNP_66987_A_94711	NW_004515774.1	scaffold240	94711	AA	TT	TT	INTERGENIC		
SNP_66988_A_117062	NW_004515774.1	scaffold240	117062	GG	TT	TT	INTERGENIC		
SNP_66989_A_138292	NW_004515774.1	scaffold240	138292	TT	GG	GG	URR	101490689	Unknown function
SNP_66990_A_139332	NW_004515774.1	scaffold240	139332	AA	GG	GG	DRR	101491008	uncharacterized LOC101491008
SNP_66991_A_142329	NW_004515774.1	scaffold240	142329	CC	AA	AA	URR	101491008	uncharacterized LOC101491008
SNP_66992_A_142344	NW_004515774.1	scaffold240	142344	TT	GG	GG	URR	101491008	uncharacterized LOC101491008
SNP_66993_A_142774	NW_004515774.1	scaffold240	142774	CC	TT	TT	URR	101491008	uncharacterized LOC101491008
SNP_66994_A_142776	NW_004515774.1	scaffold240	142776	TT	CC	CC	URR	101491008	uncharacterized LOC101491008
SNP_66995_A_142791	NW_004515774.1	scaffold240	142791	CC	TT	TT	URR	101491008	uncharacterized LOC101491008
SNP_66996_A_142917	NW_004515774.1	scaffold240	142917	TT	GG	GG	URR	101491008	uncharacterized LOC101491008
SNP_66997_A_142920	NW_004515774.1	scaffold240	142920	TT	CC	CC	URR	101491008	uncharacterized LOC101491008
SNP_66998_A_142921	NW_004515774.1	scaffold240	142921	GG	AA	AA	URR	101491008	uncharacterized LOC101491008
SNP_66999_A_142922	NW_004515774.1	scaffold240	142922	AA	CC	CC	URR	101491008	uncharacterized LOC101491008
SNP_67000_A_142944	NW_004515774.1	scaffold240	142944	TT	CC	CC	URR	101491008	uncharacterized LOC101491008
SNP_67001_A_143754	NW_004515774.1	scaffold240	143754	TT	AA	AA	INTERGENIC		
SNP_67002_A_143768	NW_004515774.1	scaffold240	143768	CC	AA	AA	INTERGENIC		
SNP_67003_A_145027	NW_004515774.1	scaffold240	145027	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67004_A_145182	NW_004515774.1	scaffold240	145182	CC	TT	TT	URR	101491322	Unknown function
SNP_67005_A_145185	NW_004515774.1	scaffold240	145185	TT	GG	GG	URR	101491322	Unknown function
SNP_67006_A_147268	NW_004515774.1	scaffold240	147268	AA	GG	GG	INTERGENIC		
SNP_67007_A_147677	NW_004515774.1	scaffold240	147677	CC	TT	TT	INTERGENIC		
SNP_67008_A_149727	NW_004515774.1	scaffold240	149727	CC	TT	TT	INTERGENIC		
SNP_67010_A_150309	NW_004515774.1	scaffold240	150309	AA	GG	GG	INTERGENIC		
SNP_67012_A_151401	NW_004515774.1	scaffold240	151401	CC	TT	TT	INTERGENIC		
SNP_67013_A_151905	NW_004515774.1	scaffold240	151905	GG	AA	AA	INTERGENIC		
SNP_67014_A_153962	NW_004515774.1	scaffold240	153962	TT	CC	CC	INTERGENIC		
SNP_67015_A_155587	NW_004515774.1	scaffold240	155587	CC	TT	TT	INTERGENIC		
SNP_67017_A_157115	NW_004515774.1	scaffold240	157115	GG	TT	TT	INTERGENIC		
SNP_67018_A_157504	NW_004515774.1	scaffold240	157504	GG	AA	AA	INTERGENIC		
SNP_67019_A_159079	NW_004515774.1	scaffold240	159079	GG	AA	AA	INTERGENIC		
SNP_67020_A_6786	NW_004515775.1	scaffold242	6786	CC	TT	TT	INTERGENIC		
SNP_67021_A_7065	NW_004515775.1	scaffold242	7065	TT	GG	GG	INTERGENIC		
SNP_67022_A_8474	NW_004515775.1	scaffold242	8474	AA	CC	CC	INTERGENIC		
SNP_67023_A_8973	NW_004515775.1	scaffold242	8973	AA	CC	CC	INTERGENIC		
SNP_67024_A_9073	NW_004515775.1	scaffold242	9073	TT	CC	CC	INTERGENIC		
SNP_67025_A_10971	NW_004515775.1	scaffold242	10971	AA	GG	GG	INTERGENIC		
SNP_67026_A_17219	NW_004515775.1	scaffold242	17219	GG	CC	CC	INTERGENIC		
SNP_67027_A_17432	NW_004515775.1	scaffold242	17432	GG	TT	TT	INTERGENIC		
SNP_67028_A_20665	NW_004515775.1	scaffold242	20665	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67029_A_20685	NW_004515775.1	scaffold242	20685	GG	CC	CC	INTERGENIC			
SNP_67030_A_20686	NW_004515775.1	scaffold242	20686	TT	AA	AA	INTERGENIC			
SNP_67031_A_25018	NW_004515775.1	scaffold242	25018	GG	CC	CC	INTERGENIC			
SNP_67032_A_32564	NW_004515775.1	scaffold242	32564	TT	CC	CC	INTERGENIC			
SNP_67033_A_34297	NW_004515775.1	scaffold242	34297	TT	CC	CC	INTERGENIC			
SNP_67034_A_34304	NW_004515775.1	scaffold242	34304	TT	CC	CC	INTERGENIC			
SNP_67035_A_42110	NW_004515775.1	scaffold242	42110	GG	AA	AA	INTERGENIC			
SNP_67037_A_42896	NW_004515775.1	scaffold242	42896	CC	AA	AA	INTERGENIC			
SNP_67038_A_44671	NW_004515775.1	scaffold242	44671	CC	GG	GG	INTERGENIC			
SNP_67039_A_44722	NW_004515775.1	scaffold242	44722	TT	CC	CC	INTERGENIC			
SNP_67040_A_44820	NW_004515775.1	scaffold242	44820	TT	CC	CC	INTERGENIC			
SNP_67041_A_44837	NW_004515775.1	scaffold242	44837	TT	GG	GG	INTERGENIC			
SNP_67042_A_44839	NW_004515775.1	scaffold242	44839	CC	AA	AA	INTERGENIC			
SNP_67043_A_44853	NW_004515775.1	scaffold242	44853	CC	AA	AA	INTERGENIC			
SNP_67044_A_45094	NW_004515775.1	scaffold242	45094	TT	CC	CC	INTERGENIC			
SNP_67045_A_45227	NW_004515775.1	scaffold242	45227	TT	GG	GG	INTERGENIC			
SNP_67046_A_45228	NW_004515775.1	scaffold242	45228	AA	GG	GG	INTERGENIC			
SNP_67047_A_45243	NW_004515775.1	scaffold242	45243	AA	GG	GG	INTERGENIC			
SNP_67048_A_45294	NW_004515775.1	scaffold242	45294	AA	GG	GG	INTERGENIC			
SNP_67049_A_45366	NW_004515775.1	scaffold242	45366	TT	CC	CC	INTERGENIC			
SNP_67050_A_45468	NW_004515775.1	scaffold242	45468	TT	AA	AA	INTERGENIC			
SNP_67051_A_45475	NW_004515775.1	scaffold242	45475	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67052_A_45483	NW_004515775.1	scaffold242	45483	GG	AA	AA	INTERGENIC		
SNP_67053_A_45485	NW_004515775.1	scaffold242	45485	GG	TT	TT	INTERGENIC		
SNP_67054_A_48827	NW_004515775.1	scaffold242	48827	CC	TT	TT	INTERGENIC		
SNP_67055_A_49412	NW_004515775.1	scaffold242	49412	GG	AA	AA	INTERGENIC		
SNP_67056_A_50356	NW_004515775.1	scaffold242	50356	GG	AA	AA	INTERGENIC		
SNP_67057_A_50365	NW_004515775.1	scaffold242	50365	CC	GG	GG	INTERGENIC		
SNP_67058_A_50421	NW_004515775.1	scaffold242	50421	AA	GG	GG	INTERGENIC		
SNP_67059_A_50426	NW_004515775.1	scaffold242	50426	TT	CC	CC	INTERGENIC		
SNP_67060_A_50832	NW_004515775.1	scaffold242	50832	AA	GG	GG	INTERGENIC		
SNP_67061_A_50861	NW_004515775.1	scaffold242	50861	TT	CC	CC	INTERGENIC		
SNP_67062_A_51027	NW_004515775.1	scaffold242	51027	TT	CC	CC	INTERGENIC		
SNP_67063_A_52203	NW_004515775.1	scaffold242	52203	TT	CC	CC	INTERGENIC		
SNP_67064_A_52204	NW_004515775.1	scaffold242	52204	AA	TT	TT	INTERGENIC		
SNP_67065_A_52210	NW_004515775.1	scaffold242	52210	AA	CC	CC	INTERGENIC		
SNP_67067_A_64769	NW_004515775.1	scaffold242	64769	GG	AA	AA	INTRON	101491645	uncharacterized LOC101491645
SNP_67068_A_82394	NW_004515775.1	scaffold242	82394	GG	TT	TT	INTERGENIC		
SNP_67069_A_87179	NW_004515775.1	scaffold242	87179	AA	GG	GG	INTERGENIC		
SNP_67070_A_103749	NW_004515775.1	scaffold242	103749	CC	TT	TT	INTERGENIC		
SNP_67071_A_103775	NW_004515775.1	scaffold242	103775	CC	TT	TT	INTERGENIC		
SNP_67072_A_103779	NW_004515775.1	scaffold242	103779	CC	AA	AA	INTERGENIC		
SNP_67073_A_103993	NW_004515775.1	scaffold242	103993	AA	GG	GG	INTERGENIC		
SNP_67074_A_103998	NW_004515775.1	scaffold242	103998	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67075_A_104050	NW_004515775.1	scaffold242	104050	AA	GG	GG	INTERGENIC		
SNP_67076_A_104172	NW_004515775.1	scaffold242	104172	CC	AA	AA	INTERGENIC		
SNP_67077_A_105712	NW_004515775.1	scaffold242	105712	TT	AA	AA	INTERGENIC		
SNP_67078_A_108197	NW_004515775.1	scaffold242	108197	CC	TT	TT	INTERGENIC		
SNP_67079_A_109816	NW_004515775.1	scaffold242	109816	GG	TT	TT	INTERGENIC		
SNP_67080_A_112354	NW_004515775.1	scaffold242	112354	CC	AA	AA	INTERGENIC		
SNP_67081_A_113989	NW_004515775.1	scaffold242	113989	AA	GG	GG	INTERGENIC		
SNP_67082_A_122934	NW_004515775.1	scaffold242	122934	GG	CC	CC	INTERGENIC		
SNP_67083_A_123010	NW_004515775.1	scaffold242	123010	CC	TT	TT	INTERGENIC		
SNP_67085_A_133212	NW_004515775.1	scaffold242	133212	GG	TT	TT	INTERGENIC		
SNP_67086_A_146432	NW_004515775.1	scaffold242	146432	AA	TT	TT	INTERGENIC		
SNP_67087_A_155620	NW_004515775.1	scaffold242	155620	AA	GG	GG	INTERGENIC		
SNP_67088_A_160286	NW_004515775.1	scaffold242	160286	TT	CC	CC	INTRON	101492624	polygalacturonase-like
SNP_67089_A_161394	NW_004515775.1	scaffold242	161394	AA	TT	TT	URR	101492624	polygalacturonase-like
SNP_67090_A_171711	NW_004515775.1	scaffold242	171711	CC	AA	AA	INTERGENIC		
SNP_67091_A_173086	NW_004515775.1	scaffold242	173086	CC	TT	TT	INTERGENIC		
SNP_67092_A_178081	NW_004515775.1	scaffold242	178081	CC	GG	GG	INTERGENIC		
SNP_67093_A_181630	NW_004515775.1	scaffold242	181630	GG	AA	AA	INTERGENIC		
SNP_67094_A_186122	NW_004515775.1	scaffold242	186122	CC	TT	TT	INTERGENIC		
SNP_67095_A_191423	NW_004515775.1	scaffold242	191423	GG	AA	AA	INTERGENIC		
SNP_67096_A_191472	NW_004515775.1	scaffold242	191472	AA	GG	GG	INTERGENIC		
SNP_67097_A_191552	NW_004515775.1	scaffold242	191552	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67098_A_192336	NW_004515775.1	scaffold242	192336	AA	TT	TT	INTERGENIC			
SNP_67099_A_194425	NW_004515775.1	scaffold242	194425	TT	CC	CC	INTERGENIC			
SNP_67100_A_195978	NW_004515775.1	scaffold242	195978	AA	TT	TT	INTERGENIC			
SNP_67101_A_211548	NW_004515775.1	scaffold242	211548	AA	GG	GG	INTERGENIC			
SNP_67102_A_213089	NW_004515775.1	scaffold242	213089	TT	AA	AA	INTERGENIC			
SNP_67103_A_222500	NW_004515775.1	scaffold242	222500	CC	AA	AA	INTERGENIC			
SNP_67105_A_226310	NW_004515775.1	scaffold242	226310	AA	GG	GG	INTERGENIC			
SNP_67106_A_229946	NW_004515775.1	scaffold242	229946	CC	AA	AA	INTERGENIC			
SNP_67107_A_236701	NW_004515775.1	scaffold242	236701	TT	AA	AA	INTERGENIC			
SNP_67109_A_254050	NW_004515775.1	scaffold242	254050	TT	CC	CC	INTERGENIC			
SNP_67110_A_255754	NW_004515775.1	scaffold242	255754	CC	AA	AA	INTERGENIC			
SNP_67111_A_255757	NW_004515775.1	scaffold242	255757	CC	TT	TT	INTERGENIC			
SNP_67113_A_266563	NW_004515775.1	scaffold242	266563	CC	TT	TT	INTERGENIC			
SNP_67114_A_268375	NW_004515775.1	scaffold242	268375	TT	CC	CC	INTERGENIC			
SNP_67115_A_270709	NW_004515775.1	scaffold242	270709	CC	AA	AA	INTERGENIC			
SNP_67116_A_290133	NW_004515775.1	scaffold242	290133	TT	AA	AA	INTERGENIC			
SNP_67117_A_304627	NW_004515775.1	scaffold242	304627	CC	TT	TT	INTERGENIC			
SNP_67118_A_305697	NW_004515775.1	scaffold242	305697	CC	TT	TT	INTERGENIC			
SNP_67119_A_310372	NW_004515775.1	scaffold242	310372	CC	GG	GG	INTERGENIC			
SNP_67120_A_313260	NW_004515775.1	scaffold242	313260	CC	GG	GG	INTERGENIC			
SNP_67121_A_313347	NW_004515775.1	scaffold242	313347	TT	CC	CC	INTERGENIC			
SNP_67122_A_314727	NW_004515775.1	scaffold242	314727	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67123_A_316002	NW_004515775.1	scaffold242	316002	CC	AA	AA	INTERGENIC		
SNP_67125_A_317174	NW_004515775.1	scaffold242	317174	GG	AA	AA	INTERGENIC		
SNP_67126_A_336670	NW_004515775.1	scaffold242	336670	GG	AA	AA	INTERGENIC		
SNP_67127_A_337119	NW_004515775.1	scaffold242	337119	CC	TT	TT	INTERGENIC		
SNP_67128_A_342051	NW_004515775.1	scaffold242	342051	GG	AA	AA	INTERGENIC		
SNP_67129_A_344720	NW_004515775.1	scaffold242	344720	TT	AA	AA	INTERGENIC		
SNP_67130_A_354694	NW_004515775.1	scaffold242	354694	AA	TT	TT	INTRON	101497709	Unknown function
SNP_67131_A_354716	NW_004515775.1	scaffold242	354716	TT	CC	CC	INTRON	101497709	Unknown function
SNP_67132_A_355102	NW_004515775.1	scaffold242	355102	GG	AA	AA	INTRON	101497709	Unknown function
SNP_67133_A_356992	NW_004515775.1	scaffold242	356992	CC	AA	AA	URR	101497709	Unknown function
SNP_67134_A_357270	NW_004515775.1	scaffold242	357270	AA	CC	CC	URR	101497709	Unknown function
SNP_67135_A_359774	NW_004515775.1	scaffold242	359774	CC	TT	TT	INTERGENIC		
SNP_67136_A_363285	NW_004515775.1	scaffold242	363285	AA	CC	CC	INTERGENIC		
SNP_67137_A_374227	NW_004515775.1	scaffold242	374227	AA	GG	GG	INTERGENIC		
SNP_67138_A_376435	NW_004515775.1	scaffold242	376435	CC	TT	TT	DRR	101498032	Unknown function
SNP_67139_A_377088	NW_004515775.1	scaffold242	377088	TT	CC	CC	NON_SYNONYMOUS_CODING	101498032	Unknown function
SNP_67140_A_393667	NW_004515775.1	scaffold242	393667	AA	GG	GG	URR	101493713	calcium-dependent protein kinase 8-like
SNP_67141_A_393670	NW_004515775.1	scaffold242	393670	TT	GG	GG	URR	101493713	calcium-dependent protein kinase 8-like
SNP_67144_A_399247	NW_004515775.1	scaffold242	399247	CC	GG	GG	INTERGENIC		
SNP_67145_A_402687	NW_004515775.1	scaffold242	402687	GG	AA	AA	INTERGENIC		
SNP_67146_A_402704	NW_004515775.1	scaffold242	402704	CC	TT	TT	INTERGENIC		
SNP_67147_A_405725	NW_004515775.1	scaffold242	405725	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67148_A_405929	NW_004515775.1	scaffold242	405929	CC	TT	TT	INTERGENIC		
SNP_67149_A_405939	NW_004515775.1	scaffold242	405939	CC	TT	TT	INTERGENIC		
SNP_67150_A_411892	NW_004515775.1	scaffold242	411892	AA	TT	TT	INTERGENIC		
SNP_67151_A_412167	NW_004515775.1	scaffold242	412167	TT	CC	CC	INTERGENIC		
SNP_67152_A_413659	NW_004515775.1	scaffold242	413659	CC	TT	TT	INTERGENIC		
SNP_67154_A_416595	NW_004515775.1	scaffold242	416595	AA	GG	GG	INTERGENIC		
SNP_67155_A_418292	NW_004515775.1	scaffold242	418292	AA	GG	GG	INTERGENIC		
SNP_67156_A_418611	NW_004515775.1	scaffold242	418611	CC	AA	AA	INTERGENIC		
SNP_67157_A_423019	NW_004515775.1	scaffold242	423019	TT	CC	CC	INTERGENIC		
SNP_67158_A_423715	NW_004515775.1	scaffold242	423715	TT	CC	CC	INTERGENIC		
SNP_67159_A_424788	NW_004515775.1	scaffold242	424788	AA	GG	GG	INTERGENIC		
SNP_67160_A_424799	NW_004515775.1	scaffold242	424799	TT	CC	CC	INTERGENIC		
SNP_67161_A_429851	NW_004515775.1	scaffold242	429851	CC	AA	AA	INTERGENIC		
SNP_67162_A_430717	NW_004515775.1	scaffold242	430717	CC	GG	GG	INTERGENIC		
SNP_67164_A_440782	NW_004515775.1	scaffold242	440782	TT	AA	AA	DRR	101498363	Unknown function
SNP_67165_A_446810	NW_004515775.1	scaffold242	446810	GG	TT	TT	INTERGENIC		
SNP_67166_A_450172	NW_004515775.1	scaffold242	450172	GG	AA	AA	INTERGENIC		
SNP_67167_A_450173	NW_004515775.1	scaffold242	450173	CC	GG	GG	INTERGENIC		
SNP_67168_A_455617	NW_004515775.1	scaffold242	455617	GG	AA	AA	INTERGENIC		
SNP_67170_A_464891	NW_004515775.1	scaffold242	464891	GG	AA	AA	URR	101498704	pentatricopeptide repeat-containing protein At1g74600, chloroplastic-like
SNP_67171_A_470387	NW_004515775.1	scaffold242	470387	CC	AA	AA	URR	101494875	uncharacterized protein At3g61260-like
SNP_67172_A_484596	NW_004515775.1	scaffold242	484596	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67173_A_493279	NW_004515775.1	scaffold242	493279	AA	TT	TT	INTERGENIC		
SNP_67174_A_493986	NW_004515775.1	scaffold242	493986	CC	TT	TT	INTERGENIC		
SNP_67177_A_495802	NW_004515775.1	scaffold242	495802	CC	TT	TT	DRR	101499658	Unknown function
SNP_67178_A_495803	NW_004515775.1	scaffold242	495803	AA	TT	TT	DRR	101499658	Unknown function
SNP_67179_A_506286	NW_004515775.1	scaffold242	506286	AA	GG	GG	INTERGENIC		
SNP_67180_A_506292	NW_004515775.1	scaffold242	506292	AA	GG	GG	INTERGENIC		
SNP_67181_A_506296	NW_004515775.1	scaffold242	506296	AA	CC	CC	INTERGENIC		
SNP_67184_A_513602	NW_004515775.1	scaffold242	513602	GG	TT	TT	INTERGENIC		
SNP_67185_A_514747	NW_004515775.1	scaffold242	514747	TT	GG	GG	INTERGENIC		
SNP_67186_A_518735	NW_004515775.1	scaffold242	518735	TT	CC	CC	INTERGENIC		
SNP_67187_A_519115	NW_004515775.1	scaffold242	519115	TT	GG	GG	INTERGENIC		
SNP_67188_A_519573	NW_004515775.1	scaffold242	519573	GG	TT	TT	INTERGENIC		
SNP_67189_A_523419	NW_004515775.1	scaffold242	523419	GG	AA	AA	INTERGENIC		
SNP_67190_A_523622	NW_004515775.1	scaffold242	523622	GG	TT	TT	INTERGENIC		
SNP_67192_A_531787	NW_004515775.1	scaffold242	531787	GG	AA	AA	INTERGENIC		
SNP_67193_A_531797	NW_004515775.1	scaffold242	531797	GG	AA	AA	INTERGENIC		
SNP_67194_A_531999	NW_004515775.1	scaffold242	531999	AA	GG	GG	INTERGENIC		
SNP_67195_A_534540	NW_004515775.1	scaffold242	534540	GG	AA	AA	INTERGENIC		
SNP_67196_A_534553	NW_004515775.1	scaffold242	534553	TT	GG	GG	INTERGENIC		
SNP_67197_A_534555	NW_004515775.1	scaffold242	534555	GG	AA	AA	INTERGENIC		
SNP_67198_A_534561	NW_004515775.1	scaffold242	534561	AA	GG	GG	INTERGENIC		
SNP_67199_A_535015	NW_004515775.1	scaffold242	535015	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67200_A_536822	NW_004515775.1	scaffold242	536822	GG	AA	AA	INTERGENIC			
SNP_67201_A_536823	NW_004515775.1	scaffold242	536823	GG	AA	AA	INTERGENIC			
SNP_67202_A_536902	NW_004515775.1	scaffold242	536902	CC	AA	AA	INTERGENIC			
SNP_67203_A_536915	NW_004515775.1	scaffold242	536915	GG	AA	AA	INTERGENIC			
SNP_67204_A_537327	NW_004515775.1	scaffold242	537327	GG	AA	AA	INTERGENIC			
SNP_67205_A_538074	NW_004515775.1	scaffold242	538074	GG	AA	AA	INTERGENIC			
SNP_67207_A_539645	NW_004515775.1	scaffold242	539645	AA	CC	CC	INTERGENIC			
SNP_67208_A_539828	NW_004515775.1	scaffold242	539828	TT	CC	CC	INTERGENIC			
SNP_67209_A_539944	NW_004515775.1	scaffold242	539944	GG	TT	TT	INTERGENIC			
SNP_67210_A_540099	NW_004515775.1	scaffold242	540099	CC	TT	TT	INTERGENIC			
SNP_67211_A_540119	NW_004515775.1	scaffold242	540119	AA	GG	GG	INTERGENIC			
SNP_67212_A_540683	NW_004515775.1	scaffold242	540683	AA	TT	TT	INTERGENIC			
SNP_67213_A_546056	NW_004515775.1	scaffold242	546056	TT	AA	AA	INTERGENIC			
SNP_67214_A_553024	NW_004515775.1	scaffold242	553024	GG	TT	TT	INTERGENIC			
SNP_67215_A_553458	NW_004515775.1	scaffold242	553458	GG	AA	AA	INTERGENIC			
SNP_67216_A_562110	NW_004515775.1	scaffold242	562110	TT	CC	CC	INTERGENIC			
SNP_67217_A_578605	NW_004515775.1	scaffold242	578605	AA	GG	GG	INTERGENIC			
SNP_67219_A_598819	NW_004515775.1	scaffold242	598819	TT	AA	AA	INTERGENIC			
SNP_67220_A_601809	NW_004515775.1	scaffold242	601809	CC	TT	TT	DRR	101501260	Unknown function	
SNP_67221_A_603518	NW_004515775.1	scaffold242	603518	AA	CC	CC	URR	101501260	Unknown function	
SNP_67222_A_603540	NW_004515775.1	scaffold242	603540	CC	TT	TT	URR	101501260	Unknown function	
SNP_67223_A_604019	NW_004515775.1	scaffold242	604019	TT	CC	CC	URR	101501260	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67224_A_604497	NW_004515775.1	scaffold242	604497	AA	TT	TT	URR	101501260	Unknown function
SNP_67225_A_606313	NW_004515775.1	scaffold242	606313	GG	AA	AA	INTERGENIC		
SNP_67226_A_606329	NW_004515775.1	scaffold242	606329	GG	AA	AA	INTERGENIC		
SNP_67227_A_606374	NW_004515775.1	scaffold242	606374	CC	TT	TT	INTERGENIC		
SNP_67228_A_606506	NW_004515775.1	scaffold242	606506	CC	TT	TT	INTERGENIC		
SNP_67229_A_606508	NW_004515775.1	scaffold242	606508	AA	GG	GG	INTERGENIC		
SNP_67230_A_607768	NW_004515775.1	scaffold242	607768	GG	AA	AA	INTERGENIC		
SNP_67231_A_610622	NW_004515775.1	scaffold242	610622	AA	CC	CC	INTERGENIC		
SNP_67232_A_610862	NW_004515775.1	scaffold242	610862	CC	TT	TT	INTERGENIC		
SNP_67233_A_612678	NW_004515775.1	scaffold242	612678	AA	TT	TT	INTERGENIC		
SNP_67234_A_612707	NW_004515775.1	scaffold242	612707	GG	AA	AA	INTERGENIC		
SNP_67235_A_613290	NW_004515775.1	scaffold242	613290	GG	AA	AA	INTERGENIC		
SNP_67236_A_613298	NW_004515775.1	scaffold242	613298	CC	TT	TT	INTERGENIC		
SNP_67237_A_614799	NW_004515775.1	scaffold242	614799	TT	CC	CC	INTERGENIC		
SNP_67238_A_614989	NW_004515775.1	scaffold242	614989	TT	CC	CC	INTERGENIC		
SNP_67239_A_615259	NW_004515775.1	scaffold242	615259	CC	TT	TT	INTERGENIC		
SNP_67240_A_618328	NW_004515775.1	scaffold242	618328	CC	TT	TT	INTERGENIC		
SNP_67241_A_618584	NW_004515775.1	scaffold242	618584	AA	GG	GG	INTERGENIC		
SNP_67242_A_618617	NW_004515775.1	scaffold242	618617	AA	GG	GG	INTERGENIC		
SNP_67243_A_618646	NW_004515775.1	scaffold242	618646	TT	CC	CC	INTERGENIC		
SNP_67244_A_624581	NW_004515775.1	scaffold242	624581	AA	GG	GG	INTERGENIC		
SNP_67245_A_624631	NW_004515775.1	scaffold242	624631	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67246_A_624679	NW_004515775.1	scaffold242	624679	GG	AA	AA	INTERGENIC		
SNP_67247_A_624707	NW_004515775.1	scaffold242	624707	AA	GG	GG	INTERGENIC		
SNP_67248_A_624901	NW_004515775.1	scaffold242	624901	CC	AA	AA	INTERGENIC		
SNP_67249_A_624983	NW_004515775.1	scaffold242	624983	TT	CC	CC	INTERGENIC		
SNP_67250_A_625021	NW_004515775.1	scaffold242	625021	TT	CC	CC	INTERGENIC		
SNP_67251_A_625042	NW_004515775.1	scaffold242	625042	AA	GG	GG	INTERGENIC		
SNP_67253_A_629676	NW_004515775.1	scaffold242	629676	CC	TT	TT	DRR	101495199	putative disease resistance protein RGA3
SNP_67254_A_633742	NW_004515775.1	scaffold242	633742	TT	AA	AA	URR	101495199	putative disease resistance protein RGA3
SNP_67255_A_633768	NW_004515775.1	scaffold242	633768	CC	TT	TT	URR	101495199	putative disease resistance protein RGA3
SNP_67256_A_638769	NW_004515775.1	scaffold242	638769	AA	TT	TT	INTERGENIC		
SNP_67257_A_642555	NW_004515775.1	scaffold242	642555	CC	AA	AA	INTERGENIC		
SNP_67259_A_645855	NW_004515775.1	scaffold242	645855	AA	TT	TT	INTERGENIC		
SNP_67260_A_653639	NW_004515775.1	scaffold242	653639	GG	AA	AA	INTERGENIC		
SNP_67261_A_669341	NW_004515775.1	scaffold242	669341	GG	AA	AA	INTERGENIC		
SNP_67262_A_670917	NW_004515775.1	scaffold242	670917	CC	TT	TT	INTERGENIC		
SNP_67263_A_672872	NW_004515775.1	scaffold242	672872	AA	GG	GG	INTERGENIC		
SNP_67264_A_673137	NW_004515775.1	scaffold242	673137	GG	CC	CC	INTERGENIC		
SNP_67265_A_675594	NW_004515775.1	scaffold242	675594	CC	TT	TT	DRR	101501570	cyclin-dependent protein kinase inhibitor SMR3-like
SNP_67266_A_679051	NW_004515775.1	scaffold242	679051	CC	TT	TT	INTERGENIC		
SNP_67269_A_697961	NW_004515775.1	scaffold242	697961	AA	GG	GG	URR	101495522	guanylate kinase 1-like
SNP_67270_A_701350	NW_004515775.1	scaffold242	701350	CC	TT	TT	INTERGENIC		
SNP_67271_A_701668	NW_004515775.1	scaffold242	701668	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67274_A_710783	NW_004515775.1	scaffold242	710783	AA	GG	GG	URR	101496073	putative disease resistance protein RGA3
SNP_67275_A_718091	NW_004515775.1	scaffold242	718091	AA	GG	GG	INTERGENIC		
SNP_67276_A_718837	NW_004515775.1	scaffold242	718837	AA	GG	GG	INTERGENIC		
SNP_67277_A_718838	NW_004515775.1	scaffold242	718838	CC	TT	TT	INTERGENIC		
SNP_67280_A_722129	NW_004515775.1	scaffold242	722129	AA	TT	TT	INTERGENIC		
SNP_67281_A_727133	NW_004515775.1	scaffold242	727133	GG	TT	TT	INTERGENIC		
SNP_67282_A_729978	NW_004515775.1	scaffold242	729978	TT	CC	CC	INTERGENIC		
SNP_67283_A_730802	NW_004515775.1	scaffold242	730802	AA	GG	GG	INTERGENIC		
SNP_67284_A_732712	NW_004515775.1	scaffold242	732712	AA	GG	GG	INTERGENIC		
SNP_67285_A_735409	NW_004515775.1	scaffold242	735409	AA	TT	TT	INTERGENIC		
SNP_67286_A_735417	NW_004515775.1	scaffold242	735417	CC	TT	TT	INTERGENIC		
SNP_67288_A_735830	NW_004515775.1	scaffold242	735830	TT	AA	AA	INTERGENIC		
SNP_67289_A_735833	NW_004515775.1	scaffold242	735833	TT	CC	CC	INTERGENIC		
SNP_67290_A_740600	NW_004515775.1	scaffold242	740600	TT	GG	GG	INTERGENIC		
SNP_67291_A_740936	NW_004515775.1	scaffold242	740936	AA	TT	TT	INTERGENIC		
SNP_67292_A_761912	NW_004515775.1	scaffold242	761912	CC	TT	TT	INTERGENIC		
SNP_67293_A_764574	NW_004515775.1	scaffold242	764574	AA	GG	GG	INTERGENIC		
SNP_67294_A_765927	NW_004515775.1	scaffold242	765927	AA	GG	GG	INTERGENIC		
SNP_67295_A_769990	NW_004515775.1	scaffold242	769990	AA	CC	CC	INTERGENIC		
SNP_67298_A_771814	NW_004515775.1	scaffold242	771814	GG	CC	CC	INTERGENIC		
SNP_67299_A_772190	NW_004515775.1	scaffold242	772190	GG	CC	CC	INTERGENIC		
SNP_67300_A_772279	NW_004515775.1	scaffold242	772279	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67301_A_772350	NW_004515775.1	scaffold242	772350	CC	AA	AA	INTERGENIC		
SNP_67302_A_775747	NW_004515775.1	scaffold242	775747	AA	CC	CC	INTERGENIC		
SNP_67303_A_785100	NW_004515775.1	scaffold242	785100	TT	GG	GG	INTRON	101502208	Unknown function
SNP_67304_A_786973	NW_004515775.1	scaffold242	786973	CC	TT	TT	INTRON	101502208	Unknown function
SNP_67305_A_787576	NW_004515775.1	scaffold242	787576	GG	AA	AA	INTRON	101502208	Unknown function
SNP_67306_A_792864	NW_004515775.1	scaffold242	792864	GG	TT	TT	INTERGENIC		
SNP_67307_A_801521	NW_004515775.1	scaffold242	801521	CC	AA	AA	INTERGENIC		
SNP_67308_A_801849	NW_004515775.1	scaffold242	801849	CC	GG	GG	INTERGENIC		
SNP_67310_A_802896	NW_004515775.1	scaffold242	802896	TT	CC	CC	INTERGENIC		
SNP_67311_A_802947	NW_004515775.1	scaffold242	802947	CC	AA	AA	INTERGENIC		
SNP_67312_A_803008	NW_004515775.1	scaffold242	803008	GG	AA	AA	INTERGENIC		
SNP_67313_A_803019	NW_004515775.1	scaffold242	803019	GG	AA	AA	INTERGENIC		
SNP_67314_A_803082	NW_004515775.1	scaffold242	803082	TT	CC	CC	INTERGENIC		
SNP_67317_A_804360	NW_004515775.1	scaffold242	804360	GG	AA	AA	INTERGENIC		
SNP_67318_A_804366	NW_004515775.1	scaffold242	804366	GG	CC	CC	INTERGENIC		
SNP_67319_A_804668	NW_004515775.1	scaffold242	804668	TT	CC	CC	INTERGENIC		
SNP_67320_A_804939	NW_004515775.1	scaffold242	804939	CC	AA	AA	INTERGENIC		
SNP_67321_A_804968	NW_004515775.1	scaffold242	804968	AA	GG	GG	INTERGENIC		
SNP_67322_A_804978	NW_004515775.1	scaffold242	804978	TT	AA	AA	INTERGENIC		
SNP_67323_A_805333	NW_004515775.1	scaffold242	805333	GG	TT	TT	INTERGENIC		
SNP_67324_A_809787	NW_004515775.1	scaffold242	809787	CC	TT	TT	INTERGENIC		
SNP_67325_A_809881	NW_004515775.1	scaffold242	809881	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67326_A_811024	NW_004515775.1	scaffold242	811024	CC	AA	AA	INTERGENIC			
SNP_67327_A_811165	NW_004515775.1	scaffold242	811165	CC	AA	AA	INTERGENIC			
SNP_67328_A_811639	NW_004515775.1	scaffold242	811639	TT	CC	CC	INTERGENIC			
SNP_67329_A_811703	NW_004515775.1	scaffold242	811703	AA	CC	CC	INTERGENIC			
SNP_67330_A_811831	NW_004515775.1	scaffold242	811831	CC	AA	AA	INTERGENIC			
SNP_67331_A_813672	NW_004515775.1	scaffold242	813672	GG	TT	TT	INTERGENIC			
SNP_67332_A_813886	NW_004515775.1	scaffold242	813886	CC	TT	TT	INTERGENIC			
SNP_67333_A_814154	NW_004515775.1	scaffold242	814154	AA	GG	GG	INTERGENIC			
SNP_67334_A_815978	NW_004515775.1	scaffold242	815978	CC	TT	TT	INTERGENIC			
SNP_67335_A_816820	NW_004515775.1	scaffold242	816820	CC	TT	TT	INTERGENIC			
SNP_67336_A_820672	NW_004515775.1	scaffold242	820672	TT	CC	CC	INTERGENIC			
SNP_67337_A_820885	NW_004515775.1	scaffold242	820885	GG	CC	CC	INTERGENIC			
SNP_67338_A_820907	NW_004515775.1	scaffold242	820907	GG	TT	TT	INTERGENIC			
SNP_67339_A_407	NW_004515776.1	scaffold243	407	AA	GG	GG	INTERGENIC			
SNP_67340_A_442	NW_004515776.1	scaffold243	442	CC	AA	AA	INTERGENIC			
SNP_67341_A_599	NW_004515777.1	scaffold244	599	TT	GG	GG	INTERGENIC			
SNP_67342_A_636	NW_004515777.1	scaffold244	636	AA	TT	TT	INTERGENIC			
SNP_67343_A_681	NW_004515777.1	scaffold244	681	CC	TT	TT	INTERGENIC			
SNP_67344_A_838	NW_004515777.1	scaffold244	838	CC	TT	TT	INTERGENIC			
SNP_67345_A_14245	NW_004515777.1	scaffold244	14245	TT	CC	CC	INTERGENIC			
SNP_67346_A_461	NW_004515778.1	scaffold246	461	GG	TT	TT	INTERGENIC			
SNP_67347_A_1255	NW_004515778.1	scaffold246	1255	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67348_A_1702	NW_004515778.1	scaffold246	1702	GG	AA	AA	INTERGENIC			
SNP_67349_A_1900	NW_004515778.1	scaffold246	1900	GG	TT	TT	INTERGENIC			
SNP_67350_A_1910	NW_004515778.1	scaffold246	1910	CC	AA	AA	INTERGENIC			
SNP_67351_A_1915	NW_004515778.1	scaffold246	1915	GG	AA	AA	INTERGENIC			
SNP_67352_A_14238	NW_004515778.1	scaffold246	14238	AA	TT	TT	INTERGENIC			
SNP_67353_A_14239	NW_004515778.1	scaffold246	14239	TT	CC	CC	INTERGENIC			
SNP_67354_A_54511	NW_004515778.1	scaffold246	54511	CC	TT	TT	INTERGENIC			
SNP_67355_A_54512	NW_004515778.1	scaffold246	54512	GG	CC	CC	INTERGENIC			
SNP_67356_A_55214	NW_004515778.1	scaffold246	55214	GG	TT	TT	INTERGENIC			
SNP_67357_A_55341	NW_004515778.1	scaffold246	55341	TT	AA	AA	INTERGENIC			
SNP_67358_A_67664	NW_004515778.1	scaffold246	67664	TT	CC	CC	INTERGENIC			
SNP_67359_A_1275	NW_004515779.1	scaffold249	1275	CC	AA	AA	INTERGENIC			
SNP_67360_A_1489	NW_004515779.1	scaffold249	1489	TT	GG	GG	INTERGENIC			
SNP_67361_A_1566	NW_004515779.1	scaffold249	1566	TT	GG	GG	INTERGENIC			
SNP_67362_A_1621	NW_004515779.1	scaffold249	1621	TT	AA	AA	INTERGENIC			
SNP_67363_A_1632	NW_004515779.1	scaffold249	1632	GG	TT	TT	INTERGENIC			
SNP_67364_A_1633	NW_004515779.1	scaffold249	1633	GG	CC	CC	INTERGENIC			
SNP_67365_A_1718	NW_004515779.1	scaffold249	1718	CC	TT	TT	INTERGENIC			
SNP_67366_A_1719	NW_004515779.1	scaffold249	1719	GG	AA	AA	INTERGENIC			
SNP_67367_A_1750	NW_004515779.1	scaffold249	1750	AA	GG	GG	INTERGENIC			
SNP_67368_A_2069	NW_004515779.1	scaffold249	2069	GG	AA	AA	INTERGENIC			
SNP_67369_A_4252	NW_004515779.1	scaffold249	4252	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67370_A_4488	NW_004515779.1	scaffold249	4488	TT	AA	AA	INTERGENIC			
SNP_67371_A_10988	NW_004515779.1	scaffold249	10988	CC	TT	TT	INTERGENIC			
SNP_67372_A_18469	NW_004515779.1	scaffold249	18469	GG	TT	TT	INTERGENIC			
SNP_67373_A_19359	NW_004515779.1	scaffold249	19359	GG	CC	CC	INTERGENIC			
SNP_67374_A_20258	NW_004515779.1	scaffold249	20258	CC	AA	AA	INTERGENIC			
SNP_67375_A_20277	NW_004515779.1	scaffold249	20277	GG	AA	AA	INTERGENIC			
SNP_67376_A_20284	NW_004515779.1	scaffold249	20284	GG	AA	AA	INTERGENIC			
SNP_67377_A_20286	NW_004515779.1	scaffold249	20286	TT	AA	AA	INTERGENIC			
SNP_67378_A_20287	NW_004515779.1	scaffold249	20287	TT	GG	GG	INTERGENIC			
SNP_67379_A_20291	NW_004515779.1	scaffold249	20291	GG	CC	CC	INTERGENIC			
SNP_67380_A_23798	NW_004515779.1	scaffold249	23798	TT	CC	CC	INTERGENIC			
SNP_67381_A_23864	NW_004515779.1	scaffold249	23864	AA	TT	TT	INTERGENIC			
SNP_67382_A_54094	NW_004515779.1	scaffold249	54094	TT	GG	GG	INTERGENIC			
SNP_67383_A_54111	NW_004515779.1	scaffold249	54111	AA	TT	TT	INTERGENIC			
SNP_67385_A_54166	NW_004515779.1	scaffold249	54166	AA	TT	TT	INTERGENIC			
SNP_67386_A_54343	NW_004515779.1	scaffold249	54343	TT	CC	CC	INTERGENIC			
SNP_67387_A_54418	NW_004515779.1	scaffold249	54418	AA	GG	GG	INTERGENIC			
SNP_67388_A_54447	NW_004515779.1	scaffold249	54447	TT	GG	GG	INTERGENIC			
SNP_67389_A_54461	NW_004515779.1	scaffold249	54461	GG	AA	AA	INTERGENIC			
SNP_67390_A_60038	NW_004515779.1	scaffold249	60038	GG	CC	CC	INTERGENIC			
SNP_67392_A_73373	NW_004515779.1	scaffold249	73373	GG	AA	AA	INTERGENIC			
SNP_67393_A_73377	NW_004515779.1	scaffold249	73377	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67394_A_73541	NW_004515779.1	scaffold249	73541	CC	GG	GG	INTERGENIC			
SNP_67395_A_73679	NW_004515779.1	scaffold249	73679	AA	TT	TT	INTERGENIC			
SNP_67396_A_73715	NW_004515779.1	scaffold249	73715	AA	GG	GG	INTERGENIC			
SNP_67397_A_92011	NW_004515779.1	scaffold249	92011	CC	TT	TT	INTERGENIC			
SNP_67398_A_111447	NW_004515779.1	scaffold249	111447	GG	AA	AA	INTERGENIC			
SNP_67399_A_133125	NW_004515779.1	scaffold249	133125	TT	AA	AA	INTERGENIC			
SNP_67400_A_141719	NW_004515779.1	scaffold249	141719	GG	AA	AA	INTERGENIC			
SNP_67401_A_141767	NW_004515779.1	scaffold249	141767	TT	GG	GG	INTERGENIC			
SNP_67402_A_141825	NW_004515779.1	scaffold249	141825	AA	GG	GG	INTERGENIC			
SNP_67403_A_141976	NW_004515779.1	scaffold249	141976	GG	AA	AA	INTERGENIC			
SNP_67404_A_142049	NW_004515779.1	scaffold249	142049	TT	AA	AA	INTERGENIC			
SNP_67405_A_142136	NW_004515779.1	scaffold249	142136	AA	GG	GG	INTERGENIC			
SNP_67406_A_142457	NW_004515779.1	scaffold249	142457	GG	AA	AA	INTERGENIC			
SNP_67407_A_142473	NW_004515779.1	scaffold249	142473	TT	AA	AA	INTERGENIC			
SNP_67408_A_144894	NW_004515779.1	scaffold249	144894	AA	TT	TT	INTERGENIC			
SNP_67409_A_145053	NW_004515779.1	scaffold249	145053	CC	TT	TT	INTERGENIC			
SNP_67410_A_145121	NW_004515779.1	scaffold249	145121	CC	GG	GG	INTERGENIC			
SNP_67411_A_145148	NW_004515779.1	scaffold249	145148	GG	CC	CC	INTERGENIC			
SNP_67412_A_145171	NW_004515779.1	scaffold249	145171	CC	AA	AA	INTERGENIC			
SNP_67413_A_145313	NW_004515779.1	scaffold249	145313	TT	AA	AA	INTERGENIC			
SNP_67414_A_145373	NW_004515779.1	scaffold249	145373	TT	AA	AA	INTERGENIC			
SNP_67415_A_145507	NW_004515779.1	scaffold249	145507	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67416_A_145546	NW_004515779.1	scaffold249	145546	AA	TT	TT	INTERGENIC			
SNP_67417_A_145559	NW_004515779.1	scaffold249	145559	AA	TT	TT	INTERGENIC			
SNP_67418_A_145652	NW_004515779.1	scaffold249	145652	AA	TT	TT	INTERGENIC			
SNP_67419_A_145686	NW_004515779.1	scaffold249	145686	CC	AA	AA	INTERGENIC			
SNP_67420_A_145688	NW_004515779.1	scaffold249	145688	AA	CC	CC	INTERGENIC			
SNP_67421_A_145689	NW_004515779.1	scaffold249	145689	GG	CC	CC	INTERGENIC			
SNP_67422_A_145693	NW_004515779.1	scaffold249	145693	GG	AA	AA	INTERGENIC			
SNP_67423_A_145703	NW_004515779.1	scaffold249	145703	TT	CC	CC	INTERGENIC			
SNP_67424_A_145713	NW_004515779.1	scaffold249	145713	AA	CC	CC	INTERGENIC			
SNP_67425_A_145820	NW_004515779.1	scaffold249	145820	TT	AA	AA	INTERGENIC			
SNP_67426_A_167633	NW_004515779.1	scaffold249	167633	CC	AA	AA	INTERGENIC			
SNP_67427_A_169104	NW_004515779.1	scaffold249	169104	TT	AA	AA	INTERGENIC			
SNP_67428_A_169126	NW_004515779.1	scaffold249	169126	AA	GG	GG	INTERGENIC			
SNP_67429_A_169148	NW_004515779.1	scaffold249	169148	CC	GG	GG	INTERGENIC			
SNP_67430_A_170588	NW_004515779.1	scaffold249	170588	TT	CC	CC	INTERGENIC			
SNP_67431_A_183297	NW_004515779.1	scaffold249	183297	CC	TT	TT	INTERGENIC			
SNP_67432_A_184443	NW_004515779.1	scaffold249	184443	GG	AA	AA	INTERGENIC			
SNP_67433_A_196002	NW_004515779.1	scaffold249	196002	TT	CC	CC	INTERGENIC			
SNP_67434_A_196380	NW_004515779.1	scaffold249	196380	CC	TT	TT	INTERGENIC			
SNP_67435_A_196413	NW_004515779.1	scaffold249	196413	GG	AA	AA	INTERGENIC			
SNP_67436_A_196417	NW_004515779.1	scaffold249	196417	AA	GG	GG	INTERGENIC			
SNP_67437_A_196485	NW_004515779.1	scaffold249	196485	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67439_A_196527	NW_004515779.1	scaffold249	196527	CC	TT	TT	INTERGENIC		
SNP_67441_A_2085	NW_004515780.1	scaffold250	2085	TT	CC	CC	INTERGENIC		
SNP_67442_A_9091	NW_004515780.1	scaffold250	9091	CC	TT	TT	INTERGENIC		
SNP_67443_A_53250	NW_004515780.1	scaffold250	53250	AA	GG	GG	DRR	101503598	peptide methionine sulfoxide reductase B1, chloroplatic
SNP_67444_A_77484	NW_004515780.1	scaffold250	77484	TT	CC	CC	INTERGENIC		
SNP_67445_A_77506	NW_004515780.1	scaffold250	77506	AA	GG	GG	INTERGENIC		
SNP_67446_A_77709	NW_004515780.1	scaffold250	77709	CC	TT	TT	INTERGENIC		
SNP_67447_A_77710	NW_004515780.1	scaffold250	77710	AA	TT	TT	INTERGENIC		
SNP_67448_A_77751	NW_004515780.1	scaffold250	77751	TT	CC	CC	INTERGENIC		
SNP_67449_A_77760	NW_004515780.1	scaffold250	77760	AA	CC	CC	INTERGENIC		
SNP_67450_A_77788	NW_004515780.1	scaffold250	77788	TT	CC	CC	INTERGENIC		
SNP_67451_A_77794	NW_004515780.1	scaffold250	77794	TT	CC	CC	INTERGENIC		
SNP_67452_A_77808	NW_004515780.1	scaffold250	77808	AA	GG	GG	INTERGENIC		
SNP_67453_A_77823	NW_004515780.1	scaffold250	77823	CC	AA	AA	INTERGENIC		
SNP_67454_A_81991	NW_004515780.1	scaffold250	81991	AA	GG	GG	DRR	101504240	Unknown function
SNP_67455_A_82172	NW_004515780.1	scaffold250	82172	AA	GG	GG	DRR	101504240	Unknown function
SNP_67456_A_82252	NW_004515780.1	scaffold250	82252	CC	TT	TT	DRR	101504240	Unknown function
SNP_67457_A_82447	NW_004515780.1	scaffold250	82447	CC	AA	AA	URR	101503919	uncharacterized LOC101503919
SNP_67458_A_82517	NW_004515780.1	scaffold250	82517	CC	TT	TT	URR	101503919	uncharacterized LOC101503919
SNP_67459_A_86148	NW_004515780.1	scaffold250	86148	AA	GG	GG	URR	101504240	Unknown function
SNP_67460_A_86187	NW_004515780.1	scaffold250	86187	GG	AA	AA	URR	101504240	Unknown function
SNP_67461_A_86191	NW_004515780.1	scaffold250	86191	AA	GG	GG	URR	101504240	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67462_A_86195	NW_004515780.1	scaffold250	86195	CC	TT	TT	URR	101504240	Unknown function
SNP_67463_A_86221	NW_004515780.1	scaffold250	86221	GG	CC	CC	URR	101504240	Unknown function
SNP_67464_A_86235	NW_004515780.1	scaffold250	86235	CC	TT	TT	URR	101504240	Unknown function
SNP_67465_A_91927	NW_004515780.1	scaffold250	91927	GG	AA	AA	INTERGENIC		
SNP_67466_A_593	NW_004515781.1	scaffold251	593	AA	TT	TT	INTERGENIC		
SNP_67467_A_2669	NW_004515781.1	scaffold251	2669	AA	CC	CC	INTERGENIC		
SNP_67468_A_3166	NW_004515781.1	scaffold251	3166	TT	GG	GG	INTERGENIC		
SNP_67469_A_6065	NW_004515781.1	scaffold251	6065	GG	AA	AA	INTERGENIC		
SNP_67470_A_6369	NW_004515781.1	scaffold251	6369	CC	AA	AA	INTERGENIC		
SNP_67471_A_6619	NW_004515781.1	scaffold251	6619	AA	GG	GG	INTERGENIC		
SNP_67472_A_8307	NW_004515781.1	scaffold251	8307	CC	TT	TT	INTERGENIC		
SNP_67473_A_2175	NW_004515782.1	scaffold253	2175	CC	GG	GG	INTERGENIC		
SNP_67474_A_8917	NW_004515784.1	scaffold255	8917	CC	TT	TT	INTERGENIC		
SNP_67475_A_8923	NW_004515784.1	scaffold255	8923	GG	AA	AA	INTERGENIC		
SNP_67476_A_9165	NW_004515784.1	scaffold255	9165	AA	GG	GG	INTERGENIC		
SNP_67477_A_9184	NW_004515784.1	scaffold255	9184	TT	CC	CC	INTERGENIC		
SNP_67478_A_9194	NW_004515784.1	scaffold255	9194	CC	TT	TT	INTERGENIC		
SNP_67479_A_9211	NW_004515784.1	scaffold255	9211	AA	GG	GG	INTERGENIC		
SNP_67480_A_9220	NW_004515784.1	scaffold255	9220	AA	GG	GG	INTERGENIC		
SNP_67481_A_9226	NW_004515784.1	scaffold255	9226	TT	CC	CC	INTERGENIC		
SNP_67482_A_9259	NW_004515784.1	scaffold255	9259	GG	AA	AA	INTERGENIC		
SNP_67483_A_9263	NW_004515784.1	scaffold255	9263	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67484_A_9304	NW_004515784.1	scaffold255	9304	TT	GG	GG	INTERGENIC			
SNP_67485_A_35130	NW_004515784.1	scaffold255	35130	AA	GG	GG	INTERGENIC			
SNP_67486_A_43686	NW_004515784.1	scaffold255	43686	TT	GG	GG	INTERGENIC			
SNP_67487_A_44636	NW_004515784.1	scaffold255	44636	AA	GG	GG	INTERGENIC			
SNP_67488_A_45960	NW_004515784.1	scaffold255	45960	GG	TT	TT	INTERGENIC			
SNP_67489_A_46259	NW_004515784.1	scaffold255	46259	TT	AA	AA	INTERGENIC			
SNP_67490_A_47670	NW_004515784.1	scaffold255	47670	CC	TT	TT	INTERGENIC			
SNP_67491_A_47673	NW_004515784.1	scaffold255	47673	AA	GG	GG	INTERGENIC			
SNP_67492_A_51621	NW_004515784.1	scaffold255	51621	TT	CC	CC	INTERGENIC			
SNP_67493_A_70026	NW_004515784.1	scaffold255	70026	GG	CC	CC	INTERGENIC			
SNP_67494_A_70040	NW_004515784.1	scaffold255	70040	TT	CC	CC	INTERGENIC			
SNP_67495_A_70113	NW_004515784.1	scaffold255	70113	TT	CC	CC	INTERGENIC			
SNP_67496_A_70327	NW_004515784.1	scaffold255	70327	AA	CC	CC	INTERGENIC			
SNP_67497_A_70347	NW_004515784.1	scaffold255	70347	AA	CC	CC	INTERGENIC			
SNP_67498_A_70400	NW_004515784.1	scaffold255	70400	CC	TT	TT	INTERGENIC			
SNP_67499_A_70412	NW_004515784.1	scaffold255	70412	CC	TT	TT	INTERGENIC			
SNP_67500_A_79510	NW_004515784.1	scaffold255	79510	TT	GG	GG	INTERGENIC			
SNP_67501_A_85549	NW_004515784.1	scaffold255	85549	GG	AA	AA	INTERGENIC			
SNP_67502_A_85685	NW_004515784.1	scaffold255	85685	TT	GG	GG	INTERGENIC			
SNP_67503_A_365	NW_004515785.1	scaffold256	365	GG	TT	TT	INTERGENIC			
SNP_67504_A_2438	NW_004515785.1	scaffold256	2438	AA	TT	TT	INTERGENIC			
SNP_67505_A_2439	NW_004515785.1	scaffold256	2439	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67506_A_43641	NW_004515785.1	scaffold256	43641	GG	AA	AA	INTERGENIC			
SNP_67507_A_43698	NW_004515785.1	scaffold256	43698	CC	AA	AA	INTERGENIC			
SNP_67508_A_43760	NW_004515785.1	scaffold256	43760	TT	AA	AA	INTERGENIC			
SNP_67509_A_43848	NW_004515785.1	scaffold256	43848	AA	GG	GG	INTERGENIC			
SNP_67510_A_61884	NW_004515785.1	scaffold256	61884	AA	GG	GG	INTERGENIC			
SNP_67511_A_92137	NW_004515785.1	scaffold256	92137	GG	AA	AA	INTERGENIC			
SNP_67512_A_101362	NW_004515785.1	scaffold256	101362	CC	GG	GG	INTERGENIC			
SNP_67513_A_101453	NW_004515785.1	scaffold256	101453	TT	AA	AA	INTERGENIC			
SNP_67514_A_101455	NW_004515785.1	scaffold256	101455	AA	GG	GG	INTERGENIC			
SNP_67515_A_101657	NW_004515785.1	scaffold256	101657	CC	AA	AA	INTERGENIC			
SNP_67516_A_101663	NW_004515785.1	scaffold256	101663	TT	AA	AA	INTERGENIC			
SNP_67517_A_101719	NW_004515785.1	scaffold256	101719	AA	TT	TT	INTERGENIC			
SNP_67518_A_101724	NW_004515785.1	scaffold256	101724	TT	AA	AA	INTERGENIC			
SNP_67519_A_101791	NW_004515785.1	scaffold256	101791	TT	CC	CC	INTERGENIC			
SNP_67520_A_101898	NW_004515785.1	scaffold256	101898	TT	CC	CC	INTERGENIC			
SNP_67521_A_108516	NW_004515785.1	scaffold256	108516	TT	GG	GG	INTERGENIC			
SNP_67522_A_108517	NW_004515785.1	scaffold256	108517	CC	AA	AA	INTERGENIC			
SNP_67523_A_111711	NW_004515785.1	scaffold256	111711	GG	AA	AA	INTERGENIC			
SNP_67524_A_111855	NW_004515785.1	scaffold256	111855	TT	CC	CC	INTERGENIC			
SNP_67525_A_121415	NW_004515785.1	scaffold256	121415	AA	TT	TT	INTERGENIC			
SNP_67526_A_147864	NW_004515785.1	scaffold256	147864	GG	AA	AA	INTERGENIC			
SNP_67527_A_147870	NW_004515785.1	scaffold256	147870	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67528_A_171607	NW_004515785.1	scaffold256	171607	AA	GG	GG	INTERGENIC			
SNP_67529_A_171893	NW_004515785.1	scaffold256	171893	AA	TT	TT	INTERGENIC			
SNP_67530_A_171952	NW_004515785.1	scaffold256	171952	CC	TT	TT	INTERGENIC			
SNP_67531_A_172039	NW_004515785.1	scaffold256	172039	GG	AA	AA	INTERGENIC			
SNP_67532_A_1628	NW_004515786.1	scaffold260	1628	TT	AA	AA	INTERGENIC			
SNP_67533_A_1646	NW_004515786.1	scaffold260	1646	CC	TT	TT	INTERGENIC			
SNP_67534_A_35116	NW_004515786.1	scaffold260	35116	AA	CC	CC	INTERGENIC			
SNP_67535_A_58220	NW_004515786.1	scaffold260	58220	TT	CC	CC	URR	101507164	Unknown function	
SNP_67536_A_62542	NW_004515786.1	scaffold260	62542	AA	TT	TT	INTERGENIC			
SNP_67537_A_64939	NW_004515786.1	scaffold260	64939	AA	TT	TT	INTERGENIC			
SNP_67538_A_65031	NW_004515786.1	scaffold260	65031	TT	AA	AA	INTERGENIC			
SNP_67539_A_65035	NW_004515786.1	scaffold260	65035	AA	TT	TT	INTERGENIC			
SNP_67540_A_65048	NW_004515786.1	scaffold260	65048	CC	TT	TT	INTERGENIC			
SNP_67541_A_65332	NW_004515786.1	scaffold260	65332	TT	AA	AA	INTERGENIC			
SNP_67542_A_87292	NW_004515786.1	scaffold260	87292	CC	TT	TT	INTERGENIC			
SNP_67543_A_129257	NW_004515786.1	scaffold260	129257	AA	GG	GG	INTERGENIC			
SNP_67544_A_205043	NW_004515786.1	scaffold260	205043	AA	CC	CC	INTERGENIC			
SNP_67545_A_205184	NW_004515786.1	scaffold260	205184	TT	AA	AA	INTERGENIC			
SNP_67546_A_209493	NW_004515786.1	scaffold260	209493	CC	TT	TT	INTERGENIC			
SNP_67547_A_209518	NW_004515786.1	scaffold260	209518	GG	AA	AA	INTERGENIC			
SNP_67548_A_209585	NW_004515786.1	scaffold260	209585	TT	AA	AA	INTERGENIC			
SNP_67549_A_209751	NW_004515786.1	scaffold260	209751	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67550_A_209758	NW_004515786.1	scaffold260	209758	AA	GG	GG	INTERGENIC			
SNP_67551_A_233674	NW_004515786.1	scaffold260	233674	GG	TT	TT	INTERGENIC			
SNP_67552_A_233704	NW_004515786.1	scaffold260	233704	CC	TT	TT	INTERGENIC			
SNP_67553_A_255760	NW_004515786.1	scaffold260	255760	TT	CC	CC	INTERGENIC			
SNP_67554_A_257318	NW_004515786.1	scaffold260	257318	TT	CC	CC	INTERGENIC			
SNP_67555_A_276144	NW_004515786.1	scaffold260	276144	CC	TT	TT	INTERGENIC			
SNP_67556_A_278212	NW_004515786.1	scaffold260	278212	AA	GG	GG	INTERGENIC			
SNP_67558_A_330698	NW_004515786.1	scaffold260	330698	AA	GG	GG	INTERGENIC			
SNP_67559_A_332527	NW_004515786.1	scaffold260	332527	AA	GG	GG	INTERGENIC			
SNP_67561_A_349242	NW_004515786.1	scaffold260	349242	TT	CC	CC	INTERGENIC			
SNP_67562_A_354892	NW_004515786.1	scaffold260	354892	CC	TT	TT	INTERGENIC			
SNP_67563_A_354924	NW_004515786.1	scaffold260	354924	AA	TT	TT	INTERGENIC			
SNP_67564_A_354927	NW_004515786.1	scaffold260	354927	AA	GG	GG	INTERGENIC			
SNP_67565_A_354928	NW_004515786.1	scaffold260	354928	CC	TT	TT	INTERGENIC			
SNP_67566_A_354944	NW_004515786.1	scaffold260	354944	AA	CC	CC	INTERGENIC			
SNP_67567_A_355036	NW_004515786.1	scaffold260	355036	AA	CC	CC	INTERGENIC			
SNP_67569_A_355736	NW_004515786.1	scaffold260	355736	AA	GG	GG	INTERGENIC			
SNP_67570_A_356023	NW_004515786.1	scaffold260	356023	GG	AA	AA	INTERGENIC			
SNP_67571_A_356532	NW_004515786.1	scaffold260	356532	AA	GG	GG	INTERGENIC			
SNP_67572_A_356544	NW_004515786.1	scaffold260	356544	CC	AA	AA	INTERGENIC			
SNP_67576_A_444479	NW_004515786.1	scaffold260	444479	AA	CC	CC	INTERGENIC			
SNP_67577_A_444480	NW_004515786.1	scaffold260	444480	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67578_A_20643	NW_004515788.1	scaffold263	20643	CC	GG	GG	INTERGENIC			
SNP_67579_A_20672	NW_004515788.1	scaffold263	20672	TT	GG	GG	INTERGENIC			
SNP_67580_A_36443	NW_004515788.1	scaffold263	36443	CC	TT	TT	INTERGENIC			
SNP_67581_A_42451	NW_004515788.1	scaffold263	42451	AA	GG	GG	INTERGENIC			
SNP_67582_A_81515	NW_004515788.1	scaffold263	81515	AA	GG	GG	INTERGENIC			
SNP_67583_A_124042	NW_004515788.1	scaffold263	124042	AA	TT	TT	INTERGENIC			
SNP_67584_A_142505	NW_004515788.1	scaffold263	142505	TT	CC	CC	INTERGENIC			
SNP_67585_A_165454	NW_004515788.1	scaffold263	165454	GG	AA	AA	INTERGENIC			
SNP_67586_A_165821	NW_004515788.1	scaffold263	165821	TT	CC	CC	INTERGENIC			
SNP_67587_A_165875	NW_004515788.1	scaffold263	165875	GG	AA	AA	INTERGENIC			
SNP_67588_A_165880	NW_004515788.1	scaffold263	165880	TT	GG	GG	INTERGENIC			
SNP_67589_A_165940	NW_004515788.1	scaffold263	165940	AA	GG	GG	INTERGENIC			
SNP_67590_A_165970	NW_004515788.1	scaffold263	165970	TT	CC	CC	INTERGENIC			
SNP_67591_A_166013	NW_004515788.1	scaffold263	166013	TT	CC	CC	INTERGENIC			
SNP_67592_A_166352	NW_004515788.1	scaffold263	166352	CC	TT	TT	INTERGENIC			
SNP_67593_A_166357	NW_004515788.1	scaffold263	166357	CC	TT	TT	INTERGENIC			
SNP_67594_A_166757	NW_004515788.1	scaffold263	166757	GG	AA	AA	INTERGENIC			
SNP_67595_A_166772	NW_004515788.1	scaffold263	166772	TT	GG	GG	INTERGENIC			
SNP_67596_A_166775	NW_004515788.1	scaffold263	166775	GG	AA	AA	INTERGENIC			
SNP_67597_A_166865	NW_004515788.1	scaffold263	166865	TT	CC	CC	INTERGENIC			
SNP_67598_A_172904	NW_004515788.1	scaffold263	172904	AA	GG	GG	INTERGENIC			
SNP_67599_A_174169	NW_004515788.1	scaffold263	174169	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67600_A_174170	NW_004515788.1	scaffold263	174170	TT	CC	CC	INTERGENIC			
SNP_67601_A_176269	NW_004515788.1	scaffold263	176269	AA	GG	GG	INTERGENIC			
SNP_67602_A_176353	NW_004515788.1	scaffold263	176353	GG	TT	TT	INTERGENIC			
SNP_67603_A_176538	NW_004515788.1	scaffold263	176538	TT	CC	CC	INTERGENIC			
SNP_67604_A_176623	NW_004515788.1	scaffold263	176623	CC	TT	TT	INTERGENIC			
SNP_67605_A_176630	NW_004515788.1	scaffold263	176630	GG	AA	AA	INTERGENIC			
SNP_67606_A_176635	NW_004515788.1	scaffold263	176635	CC	TT	TT	INTERGENIC			
SNP_67607_A_176655	NW_004515788.1	scaffold263	176655	CC	TT	TT	INTERGENIC			
SNP_67608_A_177642	NW_004515788.1	scaffold263	177642	GG	TT	TT	INTERGENIC			
SNP_67610_A_177975	NW_004515788.1	scaffold263	177975	TT	AA	AA	INTERGENIC			
SNP_67611_A_178162	NW_004515788.1	scaffold263	178162	AA	GG	GG	INTERGENIC			
SNP_67612_A_178188	NW_004515788.1	scaffold263	178188	CC	TT	TT	INTERGENIC			
SNP_67613_A_178248	NW_004515788.1	scaffold263	178248	CC	TT	TT	INTERGENIC			
SNP_67614_A_178782	NW_004515788.1	scaffold263	178782	GG	TT	TT	INTERGENIC			
SNP_67615_A_4679	NW_004515790.1	scaffold268	4679	TT	CC	CC	INTERGENIC			
SNP_67616_A_4693	NW_004515790.1	scaffold268	4693	CC	TT	TT	INTERGENIC			
SNP_67617_A_4698	NW_004515790.1	scaffold268	4698	CC	GG	GG	INTERGENIC			
SNP_67618_A_4700	NW_004515790.1	scaffold268	4700	AA	TT	TT	INTERGENIC			
SNP_67619_A_13150	NW_004515790.1	scaffold268	13150	GG	TT	TT	INTERGENIC			
SNP_67620_A_13180	NW_004515790.1	scaffold268	13180	CC	AA	AA	INTERGENIC			
SNP_67621_A_13200	NW_004515790.1	scaffold268	13200	TT	CC	CC	INTERGENIC			
SNP_67622_A_13202	NW_004515790.1	scaffold268	13202	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67623_A_13216	NW_004515790.1	scaffold268	13216	TT	CC	CC	INTERGENIC			
SNP_67624_A_13223	NW_004515790.1	scaffold268	13223	GG	TT	TT	INTERGENIC			
SNP_67625_A_13229	NW_004515790.1	scaffold268	13229	AA	GG	GG	INTERGENIC			
SNP_67626_A_13237	NW_004515790.1	scaffold268	13237	CC	AA	AA	INTERGENIC			
SNP_67627_A_13327	NW_004515790.1	scaffold268	13327	CC	TT	TT	INTERGENIC			
SNP_67628_A_13452	NW_004515790.1	scaffold268	13452	AA	TT	TT	INTERGENIC			
SNP_67629_A_13453	NW_004515790.1	scaffold268	13453	CC	AA	AA	INTERGENIC			
SNP_67630_A_13454	NW_004515790.1	scaffold268	13454	TT	AA	AA	INTERGENIC			
SNP_67631_A_15865	NW_004515790.1	scaffold268	15865	CC	TT	TT	INTERGENIC			
SNP_67632_A_15866	NW_004515790.1	scaffold268	15866	TT	CC	CC	INTERGENIC			
SNP_67633_A_15895	NW_004515790.1	scaffold268	15895	CC	TT	TT	INTERGENIC			
SNP_67634_A_15940	NW_004515790.1	scaffold268	15940	TT	CC	CC	INTERGENIC			
SNP_67635_A_15948	NW_004515790.1	scaffold268	15948	AA	CC	CC	INTERGENIC			
SNP_67636_A_16130	NW_004515790.1	scaffold268	16130	AA	GG	GG	INTERGENIC			
SNP_67637_A_30715	NW_004515790.1	scaffold268	30715	GG	TT	TT	INTERGENIC			
SNP_67638_A_43077	NW_004515790.1	scaffold268	43077	TT	CC	CC	INTERGENIC			
SNP_67639_A_43846	NW_004515790.1	scaffold268	43846	AA	GG	GG	INTERGENIC			
SNP_67640_A_44729	NW_004515790.1	scaffold268	44729	CC	TT	TT	INTERGENIC			
SNP_67641_A_45132	NW_004515790.1	scaffold268	45132	TT	CC	CC	INTERGENIC			
SNP_67642_A_45733	NW_004515790.1	scaffold268	45733	AA	TT	TT	INTERGENIC			
SNP_67643_A_3176	NW_004515791.1	scaffold269	3176	GG	AA	AA	INTERGENIC			
SNP_67644_A_3193	NW_004515791.1	scaffold269	3193	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67645_A_3378	NW_004515791.1	scaffold269	3378	TT	CC	CC	INTERGENIC			
SNP_67646_A_3398	NW_004515791.1	scaffold269	3398	GG	AA	AA	INTERGENIC			
SNP_67647_A_3558	NW_004515791.1	scaffold269	3558	GG	AA	AA	INTERGENIC			
SNP_67648_A_3592	NW_004515791.1	scaffold269	3592	AA	GG	GG	INTERGENIC			
SNP_67649_A_3612	NW_004515791.1	scaffold269	3612	AA	CC	CC	INTERGENIC			
SNP_67650_A_3794	NW_004515791.1	scaffold269	3794	CC	GG	GG	INTERGENIC			
SNP_67651_A_3824	NW_004515791.1	scaffold269	3824	AA	TT	TT	INTERGENIC			
SNP_67652_A_9293	NW_004515792.1	scaffold271	9293	CC	TT	TT	INTERGENIC			
SNP_67653_A_14234	NW_004515792.1	scaffold271	14234	CC	GG	GG	INTERGENIC			
SNP_67654_A_15591	NW_004515792.1	scaffold271	15591	TT	AA	AA	INTERGENIC			
SNP_67655_A_19504	NW_004515792.1	scaffold271	19504	TT	CC	CC	INTERGENIC			
SNP_67657_A_19600	NW_004515792.1	scaffold271	19600	CC	TT	TT	INTERGENIC			
SNP_67658_A_19690	NW_004515792.1	scaffold271	19690	TT	CC	CC	INTERGENIC			
SNP_67659_A_19720	NW_004515792.1	scaffold271	19720	CC	TT	TT	INTERGENIC			
SNP_67660_A_19732	NW_004515792.1	scaffold271	19732	TT	CC	CC	INTERGENIC			
SNP_67661_A_19756	NW_004515792.1	scaffold271	19756	CC	TT	TT	INTERGENIC			
SNP_67662_A_19927	NW_004515792.1	scaffold271	19927	AA	GG	GG	INTERGENIC			
SNP_67663_A_19958	NW_004515792.1	scaffold271	19958	TT	AA	AA	INTERGENIC			
SNP_67664_A_20006	NW_004515792.1	scaffold271	20006	AA	GG	GG	INTERGENIC			
SNP_67665_A_20015	NW_004515792.1	scaffold271	20015	TT	CC	CC	INTERGENIC			
SNP_67666_A_20018	NW_004515792.1	scaffold271	20018	TT	AA	AA	INTERGENIC			
SNP_67667_A_20035	NW_004515792.1	scaffold271	20035	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67668_A_20063	NW_004515792.1	scaffold271	20063	GG	AA	AA	INTERGENIC			
SNP_67669_A_20075	NW_004515792.1	scaffold271	20075	CC	TT	TT	INTERGENIC			
SNP_67670_A_20102	NW_004515792.1	scaffold271	20102	GG	AA	AA	INTERGENIC			
SNP_67671_A_26654	NW_004515792.1	scaffold271	26654	GG	TT	TT	INTERGENIC			
SNP_67672_A_27143	NW_004515792.1	scaffold271	27143	CC	TT	TT	INTERGENIC			
SNP_67673_A_27177	NW_004515792.1	scaffold271	27177	CC	TT	TT	INTERGENIC			
SNP_67674_A_71295	NW_004515792.1	scaffold271	71295	CC	AA	AA	INTERGENIC			
SNP_67675_A_93534	NW_004515792.1	scaffold271	93534	TT	AA	AA	INTERGENIC			
SNP_67676_A_96049	NW_004515792.1	scaffold271	96049	GG	TT	TT	INTERGENIC			
SNP_67679_A_204852	NW_004515792.1	scaffold271	204852	AA	GG	GG	INTERGENIC			
SNP_67680_A_204954	NW_004515792.1	scaffold271	204954	GG	AA	AA	INTERGENIC			
SNP_67681_A_204988	NW_004515792.1	scaffold271	204988	GG	AA	AA	INTERGENIC			
SNP_67682_A_205082	NW_004515792.1	scaffold271	205082	AA	GG	GG	INTERGENIC			
SNP_67683_A_205119	NW_004515792.1	scaffold271	205119	AA	GG	GG	INTERGENIC			
SNP_67684_A_205135	NW_004515792.1	scaffold271	205135	AA	GG	GG	INTERGENIC			
SNP_67685_A_205167	NW_004515792.1	scaffold271	205167	GG	AA	AA	INTERGENIC			
SNP_67686_A_205186	NW_004515792.1	scaffold271	205186	GG	CC	CC	INTERGENIC			
SNP_67687_A_205308	NW_004515792.1	scaffold271	205308	GG	AA	AA	INTERGENIC			
SNP_67688_A_205688	NW_004515792.1	scaffold271	205688	AA	GG	GG	INTERGENIC			
SNP_67689_A_205919	NW_004515792.1	scaffold271	205919	AA	CC	CC	INTERGENIC			
SNP_67691_A_205984	NW_004515792.1	scaffold271	205984	CC	TT	TT	INTERGENIC			
SNP_67693_A_276755	NW_004515792.1	scaffold271	276755	CC	GG	GG	URR	101511953	uncharacterized LOC101511953	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67694_A_276872	NW_004515792.1	scaffold271	276872	GG	AA	AA	URR	101511953	uncharacterized LOC101511953
SNP_67695_A_277292	NW_004515792.1	scaffold271	277292	GG	AA	AA	URR	101511953	uncharacterized LOC101511953
SNP_67696_A_26207	NW_004515793.1	scaffold273	26207	TT	AA	AA	INTERGENIC		
SNP_67698_A_48834	NW_004515793.1	scaffold273	48834	TT	CC	CC	INTERGENIC		
SNP_67701_A_50195	NW_004515793.1	scaffold273	50195	TT	AA	AA	INTERGENIC		
SNP_67702_A_50199	NW_004515793.1	scaffold273	50199	TT	CC	CC	INTERGENIC		
SNP_67703_A_50222	NW_004515793.1	scaffold273	50222	AA	TT	TT	INTERGENIC		
SNP_67704_A_50430	NW_004515793.1	scaffold273	50430	GG	AA	AA	INTERGENIC		
SNP_67705_A_50452	NW_004515793.1	scaffold273	50452	AA	GG	GG	INTERGENIC		
SNP_67706_A_83263	NW_004515793.1	scaffold273	83263	TT	CC	CC	INTERGENIC		
SNP_67707_A_83266	NW_004515793.1	scaffold273	83266	AA	GG	GG	INTERGENIC		
SNP_67708_A_83287	NW_004515793.1	scaffold273	83287	AA	GG	GG	INTERGENIC		
SNP_67709_A_83293	NW_004515793.1	scaffold273	83293	TT	CC	CC	INTERGENIC		
SNP_67711_A_144009	NW_004515793.1	scaffold273	144009	TT	CC	CC	INTERGENIC		
SNP_67712_A_190296	NW_004515793.1	scaffold273	190296	AA	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67713_A_190348	NW_004515793.1	scaffold273	190348	AA	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67714_A_190438	NW_004515793.1	scaffold273	190438	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67715_A_190486	NW_004515793.1	scaffold273	190486	CC	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67716_A_190564	NW_004515793.1	scaffold273	190564	AA	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67718_A_190683	NW_004515793.1	scaffold273	190683	GG	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67719_A_190691	NW_004515793.1	scaffold273	190691	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67720_A_190765	NW_004515793.1	scaffold273	190765	AA	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67721_A_190882	NW_004515793.1	scaffold273	190882	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67722_A_190905	NW_004515793.1	scaffold273	190905	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67723_A_190949	NW_004515793.1	scaffold273	190949	TT	GG	GG	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67724_A_191739	NW_004515793.1	scaffold273	191739	TT	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67725_A_191750	NW_004515793.1	scaffold273	191750	GG	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67726_A_191760	NW_004515793.1	scaffold273	191760	AA	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67727_A_191841	NW_004515793.1	scaffold273	191841	TT	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67728_A_191857	NW_004515793.1	scaffold273	191857	AA	GG	GG	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67729_A_191858	NW_004515793.1	scaffold273	191858	CC	TT	TT	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67730_A_191870	NW_004515793.1	scaffold273	191870	TT	CC	CC	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_67731_A_209802	NW_004515793.1	scaffold273	209802	TT	CC	CC	URR	101512919	Unknown function
SNP_67733_A_209846	NW_004515793.1	scaffold273	209846	AA	CC	CC	URR	101512919	Unknown function
SNP_67734_A_6470	NW_004515794.1	scaffold275	6470	AA	CC	CC	INTERGENIC		
SNP_67735_A_7014	NW_004515794.1	scaffold275	7014	TT	CC	CC	INTERGENIC		
SNP_67736_A_7834	NW_004515794.1	scaffold275	7834	AA	GG	GG	INTERGENIC		
SNP_67737_A_57196	NW_004515794.1	scaffold275	57196	CC	TT	TT	INTERGENIC		
SNP_67738_A_57199	NW_004515794.1	scaffold275	57199	TT	CC	CC	INTERGENIC		
SNP_67739_A_57208	NW_004515794.1	scaffold275	57208	GG	CC	CC	INTERGENIC		
SNP_67740_A_57214	NW_004515794.1	scaffold275	57214	AA	GG	GG	INTERGENIC		
SNP_67741_A_59502	NW_004515794.1	scaffold275	59502	GG	AA	AA	INTERGENIC		
SNP_67742_A_67385	NW_004515794.1	scaffold275	67385	CC	TT	TT	INTERGENIC		
SNP_67744_A_78148	NW_004515794.1	scaffold275	78148	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67745_A_115499	NW_004515794.1	scaffold275	115499	CC	TT	TT	INTERGENIC			
SNP_67746_A_143668	NW_004515794.1	scaffold275	143668	CC	TT	TT	INTERGENIC			
SNP_67747_A_143681	NW_004515794.1	scaffold275	143681	CC	TT	TT	INTERGENIC			
SNP_67748_A_143768	NW_004515794.1	scaffold275	143768	AA	TT	TT	INTERGENIC			
SNP_67749_A_143781	NW_004515794.1	scaffold275	143781	TT	CC	CC	INTERGENIC			
SNP_67750_A_143900	NW_004515794.1	scaffold275	143900	TT	CC	CC	INTERGENIC			
SNP_67751_A_144073	NW_004515794.1	scaffold275	144073	CC	TT	TT	INTERGENIC			
SNP_67752_A_144086	NW_004515794.1	scaffold275	144086	CC	GG	GG	INTERGENIC			
SNP_67753_A_145942	NW_004515794.1	scaffold275	145942	AA	GG	GG	INTERGENIC			
SNP_67754_A_146150	NW_004515794.1	scaffold275	146150	AA	GG	GG	INTERGENIC			
SNP_67755_A_146161	NW_004515794.1	scaffold275	146161	TT	CC	CC	INTERGENIC			
SNP_67756_A_146249	NW_004515794.1	scaffold275	146249	CC	TT	TT	INTERGENIC			
SNP_67757_A_146309	NW_004515794.1	scaffold275	146309	AA	CC	CC	INTERGENIC			
SNP_67758_A_147189	NW_004515794.1	scaffold275	147189	CC	TT	TT	INTERGENIC			
SNP_67759_A_147269	NW_004515794.1	scaffold275	147269	GG	AA	AA	INTERGENIC			
SNP_67760_A_147583	NW_004515794.1	scaffold275	147583	TT	CC	CC	INTERGENIC			
SNP_67761_A_147859	NW_004515794.1	scaffold275	147859	TT	AA	AA	INTERGENIC			
SNP_67762_A_147889	NW_004515794.1	scaffold275	147889	CC	TT	TT	INTERGENIC			
SNP_67763_A_148036	NW_004515794.1	scaffold275	148036	TT	CC	CC	INTERGENIC			
SNP_67764_A_160838	NW_004515794.1	scaffold275	160838	TT	GG	GG	INTERGENIC			
SNP_67765_A_162126	NW_004515794.1	scaffold275	162126	CC	GG	GG	INTERGENIC			
SNP_67766_A_162270	NW_004515794.1	scaffold275	162270	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67768_A_162392	NW_004515794.1	scaffold275	162392	TT	AA	AA	INTERGENIC		
SNP_67769_A_162473	NW_004515794.1	scaffold275	162473	TT	AA	AA	INTERGENIC		
SNP_67771_A_208450	NW_004515794.1	scaffold275	208450	AA	GG	GG	INTERGENIC		
SNP_67772_A_208768	NW_004515794.1	scaffold275	208768	AA	GG	GG	INTERGENIC		
SNP_67773_A_208793	NW_004515794.1	scaffold275	208793	CC	GG	GG	INTERGENIC		
SNP_67774_A_208824	NW_004515794.1	scaffold275	208824	AA	GG	GG	INTERGENIC		
SNP_67775_A_208837	NW_004515794.1	scaffold275	208837	TT	CC	CC	INTERGENIC		
SNP_67776_A_275422	NW_004515794.1	scaffold275	275422	AA	GG	GG	URR	101489594	uncharacterized LOC101489594
SNP_67777_A_276858	NW_004515794.1	scaffold275	276858	CC	TT	TT	INTERGENIC		
SNP_67778_A_294527	NW_004515794.1	scaffold275	294527	GG	TT	TT	INTERGENIC		
SNP_67779_A_343927	NW_004515794.1	scaffold275	343927	TT	AA	AA	URR	101490250	Unknown function
SNP_67781_A_377116	NW_004515794.1	scaffold275	377116	TT	CC	CC	INTERGENIC		
SNP_67782_A_377585	NW_004515794.1	scaffold275	377585	AA	GG	GG	DRR	101514000	Unknown function
SNP_67783_A_383211	NW_004515794.1	scaffold275	383211	TT	CC	CC	INTERGENIC		
SNP_67784_A_403851	NW_004515794.1	scaffold275	403851	TT	CC	CC	INTERGENIC		
SNP_67785_A_405116	NW_004515794.1	scaffold275	405116	TT	CC	CC	INTERGENIC		
SNP_67786_A_405254	NW_004515794.1	scaffold275	405254	AA	CC	CC	INTERGENIC		
SNP_67787_A_405263	NW_004515794.1	scaffold275	405263	AA	GG	GG	INTERGENIC		
SNP_67788_A_405320	NW_004515794.1	scaffold275	405320	TT	CC	CC	INTERGENIC		
SNP_67789_A_405349	NW_004515794.1	scaffold275	405349	AA	GG	GG	INTERGENIC		
SNP_67790_A_406314	NW_004515794.1	scaffold275	406314	CC	GG	GG	INTERGENIC		
SNP_67791_A_406347	NW_004515794.1	scaffold275	406347	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67792_A_424633	NW_004515794.1	scaffold275	424633	AA	TT	TT	INTERGENIC		
SNP_67793_A_491336	NW_004515794.1	scaffold275	491336	GG	TT	TT	INTERGENIC		
SNP_67794_A_491337	NW_004515794.1	scaffold275	491337	CC	AA	AA	INTERGENIC		
SNP_67795_A_491432	NW_004515794.1	scaffold275	491432	CC	TT	TT	INTERGENIC		
SNP_67796_A_491450	NW_004515794.1	scaffold275	491450	CC	TT	TT	INTERGENIC		
SNP_67797_A_491544	NW_004515794.1	scaffold275	491544	AA	TT	TT	INTERGENIC		
SNP_67798_A_491545	NW_004515794.1	scaffold275	491545	TT	AA	AA	INTERGENIC		
SNP_67799_A_492057	NW_004515794.1	scaffold275	492057	GG	AA	AA	INTERGENIC		
SNP_67800_A_492230	NW_004515794.1	scaffold275	492230	CC	TT	TT	INTERGENIC		
SNP_67801_A_492232	NW_004515794.1	scaffold275	492232	GG	AA	AA	INTERGENIC		
SNP_67802_A_492234	NW_004515794.1	scaffold275	492234	CC	AA	AA	INTERGENIC		
SNP_67803_A_492290	NW_004515794.1	scaffold275	492290	TT	AA	AA	INTERGENIC		
SNP_67804_A_492306	NW_004515794.1	scaffold275	492306	AA	GG	GG	INTERGENIC		
SNP_67805_A_546635	NW_004515794.1	scaffold275	546635	AA	GG	GG	INTRON	101514229	activating signal cointegrator 1 complex subunit 3
SNP_67806_A_546901	NW_004515794.1	scaffold275	546901	TT	CC	CC	INTRON	101514229	activating signal cointegrator 1 complex subunit 3
SNP_67807_A_546942	NW_004515794.1	scaffold275	546942	TT	CC	CC	INTRON	101514229	activating signal cointegrator 1 complex subunit 3
SNP_67808_A_546983	NW_004515794.1	scaffold275	546983	GG	AA	AA	INTRON	101514229	activating signal cointegrator 1 complex subunit 3
SNP_67809_A_563031	NW_004515794.1	scaffold275	563031	AA	GG	GG	INTRON	101514229	activating signal cointegrator 1 complex subunit 3
SNP_67810_A_570142	NW_004515794.1	scaffold275	570142	TT	CC	CC	INTERGENIC		
SNP_67811_A_577924	NW_004515794.1	scaffold275	577924	AA	GG	GG	INTERGENIC		
SNP_67812_A_578238	NW_004515794.1	scaffold275	578238	CC	TT	TT	INTERGENIC		
SNP_67813_A_581068	NW_004515794.1	scaffold275	581068	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67814_A_581078	NW_004515794.1	scaffold275	581078	AA	TT	TT	INTERGENIC			
SNP_67815_A_581084	NW_004515794.1	scaffold275	581084	AA	CC	CC	INTERGENIC			
SNP_67816_A_586290	NW_004515794.1	scaffold275	586290	AA	CC	CC	INTERGENIC			
SNP_67817_A_586311	NW_004515794.1	scaffold275	586311	AA	GG	GG	INTERGENIC			
SNP_67818_A_607272	NW_004515794.1	scaffold275	607272	TT	CC	CC	INTERGENIC			
SNP_67819_A_607336	NW_004515794.1	scaffold275	607336	AA	GG	GG	INTERGENIC			
SNP_67820_A_607341	NW_004515794.1	scaffold275	607341	GG	TT	TT	INTERGENIC			
SNP_67821_A_622310	NW_004515794.1	scaffold275	622310	AA	TT	TT	INTERGENIC			
SNP_67822_A_624306	NW_004515794.1	scaffold275	624306	TT	AA	AA	INTERGENIC			
SNP_67823_A_624732	NW_004515794.1	scaffold275	624732	GG	TT	TT	INTERGENIC			
SNP_67824_A_636739	NW_004515794.1	scaffold275	636739	AA	GG	GG	INTERGENIC			
SNP_67825_A_647937	NW_004515794.1	scaffold275	647937	GG	TT	TT	INTERGENIC			
SNP_67826_A_647956	NW_004515794.1	scaffold275	647956	TT	AA	AA	INTERGENIC			
SNP_67827_A_655862	NW_004515794.1	scaffold275	655862	GG	AA	AA	INTERGENIC			
SNP_67828_A_656871	NW_004515794.1	scaffold275	656871	GG	TT	TT	INTERGENIC			
SNP_67829_A_671664	NW_004515794.1	scaffold275	671664	AA	TT	TT	INTERGENIC			
SNP_67830_A_674562	NW_004515794.1	scaffold275	674562	AA	GG	GG	INTERGENIC			
SNP_67831_A_681340	NW_004515794.1	scaffold275	681340	TT	CC	CC	INTERGENIC			
SNP_67832_A_748846	NW_004515794.1	scaffold275	748846	GG	AA	AA	INTERGENIC			
SNP_67833_A_749219	NW_004515794.1	scaffold275	749219	GG	AA	AA	INTERGENIC			
SNP_67834_A_749222	NW_004515794.1	scaffold275	749222	TT	GG	GG	INTERGENIC			
SNP_67835_A_758498	NW_004515794.1	scaffold275	758498	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67836_A_758512	NW_004515794.1	scaffold275	758512	TT	CC	CC	INTERGENIC			
SNP_67837_A_781095	NW_004515794.1	scaffold275	781095	GG	TT	TT	INTERGENIC			
SNP_67838_A_781109	NW_004515794.1	scaffold275	781109	CC	TT	TT	INTERGENIC			
SNP_67839_A_781135	NW_004515794.1	scaffold275	781135	GG	AA	AA	INTERGENIC			
SNP_67840_A_781149	NW_004515794.1	scaffold275	781149	CC	AA	AA	INTERGENIC			
SNP_67841_A_781174	NW_004515794.1	scaffold275	781174	AA	GG	GG	INTERGENIC			
SNP_67842_A_781394	NW_004515794.1	scaffold275	781394	TT	AA	AA	INTERGENIC			
SNP_67843_A_781420	NW_004515794.1	scaffold275	781420	AA	CC	CC	INTERGENIC			
SNP_67844_A_781486	NW_004515794.1	scaffold275	781486	CC	GG	GG	INTERGENIC			
SNP_67845_A_781502	NW_004515794.1	scaffold275	781502	GG	AA	AA	INTERGENIC			
SNP_67846_A_781505	NW_004515794.1	scaffold275	781505	GG	AA	AA	INTERGENIC			
SNP_67847_A_781881	NW_004515794.1	scaffold275	781881	CC	GG	GG	INTERGENIC			
SNP_67848_A_782140	NW_004515794.1	scaffold275	782140	CC	TT	TT	INTERGENIC			
SNP_67849_A_783272	NW_004515794.1	scaffold275	783272	AA	GG	GG	INTERGENIC			
SNP_67850_A_783287	NW_004515794.1	scaffold275	783287	CC	AA	AA	INTERGENIC			
SNP_67851_A_797836	NW_004515794.1	scaffold275	797836	AA	GG	GG	INTERGENIC			
SNP_67853_A_798193	NW_004515794.1	scaffold275	798193	CC	AA	AA	INTERGENIC			
SNP_67854_A_798214	NW_004515794.1	scaffold275	798214	AA	CC	CC	INTERGENIC			
SNP_67855_A_798221	NW_004515794.1	scaffold275	798221	AA	GG	GG	INTERGENIC			
SNP_67856_A_798394	NW_004515794.1	scaffold275	798394	AA	GG	GG	INTERGENIC			
SNP_67857_A_802652	NW_004515794.1	scaffold275	802652	TT	AA	AA	INTERGENIC			
SNP_67858_A_812186	NW_004515794.1	scaffold275	812186	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67859_A_812275	NW_004515794.1	scaffold275	812275	GG	AA	AA	INTERGENIC			
SNP_67860_A_812361	NW_004515794.1	scaffold275	812361	TT	AA	AA	INTERGENIC			
SNP_67861_A_812608	NW_004515794.1	scaffold275	812608	CC	TT	TT	INTERGENIC			
SNP_67862_A_812661	NW_004515794.1	scaffold275	812661	GG	CC	CC	INTERGENIC			
SNP_67863_A_812688	NW_004515794.1	scaffold275	812688	TT	GG	GG	INTERGENIC			
SNP_67864_A_812717	NW_004515794.1	scaffold275	812717	CC	TT	TT	INTERGENIC			
SNP_67865_A_812718	NW_004515794.1	scaffold275	812718	CC	TT	TT	INTERGENIC			
SNP_67866_A_813747	NW_004515794.1	scaffold275	813747	AA	CC	CC	INTERGENIC			
SNP_67867_A_1193	NW_004515795.1	scaffold276	1193	CC	TT	TT	INTERGENIC			
SNP_67869_A_1256	NW_004515795.1	scaffold276	1256	GG	AA	AA	INTERGENIC			
SNP_67870_A_1301	NW_004515795.1	scaffold276	1301	TT	CC	CC	INTERGENIC			
SNP_67871_A_21571	NW_004515795.1	scaffold276	21571	TT	CC	CC	INTERGENIC			
SNP_67872_A_53120	NW_004515795.1	scaffold276	53120	TT	GG	GG	INTERGENIC			
SNP_67873_A_483	NW_004515796.1	scaffold277	483	GG	TT	TT	INTERGENIC			
SNP_67874_A_642	NW_004515796.1	scaffold277	642	GG	AA	AA	INTERGENIC			
SNP_67875_A_675	NW_004515796.1	scaffold277	675	GG	TT	TT	DRR	101492840	sugar transport protein 10-like	
SNP_67876_A_729	NW_004515796.1	scaffold277	729	CC	TT	TT	DRR	101492840	sugar transport protein 10-like	
SNP_67877_A_823	NW_004515796.1	scaffold277	823	TT	GG	GG	DRR	101492840	sugar transport protein 10-like	
SNP_67878_A_873	NW_004515796.1	scaffold277	873	AA	GG	GG	DRR	101492840	sugar transport protein 10-like	
SNP_67879_A_879	NW_004515796.1	scaffold277	879	AA	GG	GG	DRR	101492840	sugar transport protein 10-like	
SNP_67880_A_975	NW_004515796.1	scaffold277	975	TT	CC	CC	DRR	101492840	sugar transport protein 10-like	
SNP_67881_A_1486	NW_004515796.1	scaffold277	1486	GG	AA	AA	DRR	101492840	sugar transport protein 10-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_67882_A_1514	NW_004515796.1	scaffold277	1514	TT	CC	CC	DRR	101492840	sugar transport protein 10-like
SNP_67883_A_1596	NW_004515796.1	scaffold277	1596	AA	CC	CC	DRR	101492840	sugar transport protein 10-like
SNP_67884_A_4322	NW_004515796.1	scaffold277	4322	AA	GG	GG	URR	101492840	sugar transport protein 10-like
SNP_67886_A_4504	NW_004515796.1	scaffold277	4504	GG	AA	AA	URR	101492840	sugar transport protein 10-like
SNP_67888_A_4781	NW_004515796.1	scaffold277	4781	AA	GG	GG	URR	101492840	sugar transport protein 10-like
SNP_67890_A_4929	NW_004515796.1	scaffold277	4929	CC	GG	GG	URR	101492840	sugar transport protein 10-like
SNP_67891_A_5231	NW_004515796.1	scaffold277	5231	CC	GG	GG	URR	101492840	sugar transport protein 10-like
SNP_67892_A_5290	NW_004515796.1	scaffold277	5290	AA	GG	GG	URR	101492840	sugar transport protein 10-like
SNP_67893_A_5326	NW_004515796.1	scaffold277	5326	GG	AA	AA	URR	101492840	sugar transport protein 10-like
SNP_67894_A_5363	NW_004515796.1	scaffold277	5363	AA	TT	TT	URR	101492840	sugar transport protein 10-like
SNP_67895_A_5367	NW_004515796.1	scaffold277	5367	AA	TT	TT	URR	101492840	sugar transport protein 10-like
SNP_67896_A_5419	NW_004515796.1	scaffold277	5419	TT	CC	CC	INTERGENIC		
SNP_67897_A_5467	NW_004515796.1	scaffold277	5467	TT	CC	CC	INTERGENIC		
SNP_67898_A_5483	NW_004515796.1	scaffold277	5483	GG	AA	AA	INTERGENIC		
SNP_67899_A_5488	NW_004515796.1	scaffold277	5488	CC	AA	AA	INTERGENIC		
SNP_67900_A_5501	NW_004515796.1	scaffold277	5501	GG	TT	TT	INTERGENIC		
SNP_67901_A_5502	NW_004515796.1	scaffold277	5502	GG	AA	AA	INTERGENIC		
SNP_67902_A_5579	NW_004515796.1	scaffold277	5579	TT	CC	CC	INTERGENIC		
SNP_67903_A_18779	NW_004515796.1	scaffold277	18779	CC	AA	AA	INTERGENIC		
SNP_67904_A_59703	NW_004515796.1	scaffold277	59703	GG	AA	AA	INTERGENIC		
SNP_67905_A_59710	NW_004515796.1	scaffold277	59710	GG	AA	AA	INTERGENIC		
SNP_67906_A_59711	NW_004515796.1	scaffold277	59711	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67907_A_60497	NW_004515796.1	scaffold277	60497	TT	CC	CC	INTERGENIC			
SNP_67908_A_60583	NW_004515796.1	scaffold277	60583	AA	GG	GG	INTERGENIC			
SNP_67909_A_63176	NW_004515796.1	scaffold277	63176	CC	AA	AA	INTERGENIC			
SNP_67910_A_65765	NW_004515796.1	scaffold277	65765	GG	CC	CC	INTERGENIC			
SNP_67911_A_72443	NW_004515796.1	scaffold277	72443	AA	GG	GG	INTERGENIC			
SNP_67912_A_77075	NW_004515796.1	scaffold277	77075	TT	GG	GG	INTERGENIC			
SNP_67913_A_79334	NW_004515796.1	scaffold277	79334	AA	CC	CC	INTERGENIC			
SNP_67914_A_79360	NW_004515796.1	scaffold277	79360	CC	AA	AA	INTERGENIC			
SNP_67915_A_79398	NW_004515796.1	scaffold277	79398	GG	AA	AA	INTERGENIC			
SNP_67916_A_79713	NW_004515796.1	scaffold277	79713	CC	AA	AA	INTERGENIC			
SNP_67917_A_79934	NW_004515796.1	scaffold277	79934	TT	GG	GG	INTERGENIC			
SNP_67918_A_79947	NW_004515796.1	scaffold277	79947	TT	GG	GG	INTERGENIC			
SNP_67919_A_132331	NW_004515796.1	scaffold277	132331	TT	CC	CC	INTERGENIC			
SNP_67920_A_132337	NW_004515796.1	scaffold277	132337	TT	CC	CC	INTERGENIC			
SNP_67921_A_132341	NW_004515796.1	scaffold277	132341	AA	GG	GG	INTERGENIC			
SNP_67922_A_133884	NW_004515796.1	scaffold277	133884	AA	GG	GG	INTERGENIC			
SNP_67923_A_142834	NW_004515796.1	scaffold277	142834	TT	AA	AA	INTERGENIC			
SNP_67924_A_165452	NW_004515796.1	scaffold277	165452	GG	CC	CC	INTERGENIC			
SNP_67925_A_165750	NW_004515796.1	scaffold277	165750	GG	TT	TT	INTERGENIC			
SNP_67926_A_165758	NW_004515796.1	scaffold277	165758	AA	TT	TT	INTERGENIC			
SNP_67927_A_165825	NW_004515796.1	scaffold277	165825	GG	TT	TT	INTERGENIC			
SNP_67928_A_165865	NW_004515796.1	scaffold277	165865	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67929_A_165979	NW_004515796.1	scaffold277	165979	TT	GG	GG	INTERGENIC			
SNP_67930_A_166003	NW_004515796.1	scaffold277	166003	AA	TT	TT	INTERGENIC			
SNP_67931_A_166230	NW_004515796.1	scaffold277	166230	TT	AA	AA	INTERGENIC			
SNP_67932_A_185172	NW_004515796.1	scaffold277	185172	AA	GG	GG	INTERGENIC			
SNP_67933_A_185189	NW_004515796.1	scaffold277	185189	TT	GG	GG	INTERGENIC			
SNP_67934_A_188835	NW_004515796.1	scaffold277	188835	CC	AA	AA	INTERGENIC			
SNP_67935_A_201691	NW_004515796.1	scaffold277	201691	TT	CC	CC	INTERGENIC			
SNP_67936_A_201940	NW_004515796.1	scaffold277	201940	AA	GG	GG	INTERGENIC			
SNP_67937_A_202038	NW_004515796.1	scaffold277	202038	AA	CC	CC	INTERGENIC			
SNP_67938_A_202539	NW_004515796.1	scaffold277	202539	AA	GG	GG	INTERGENIC			
SNP_67939_A_202681	NW_004515796.1	scaffold277	202681	TT	AA	AA	INTERGENIC			
SNP_67940_A_202716	NW_004515796.1	scaffold277	202716	CC	TT	TT	INTERGENIC			
SNP_67941_A_202796	NW_004515796.1	scaffold277	202796	AA	GG	GG	INTERGENIC			
SNP_67942_A_202812	NW_004515796.1	scaffold277	202812	AA	GG	GG	INTERGENIC			
SNP_67943_A_202839	NW_004515796.1	scaffold277	202839	AA	GG	GG	INTERGENIC			
SNP_67944_A_202880	NW_004515796.1	scaffold277	202880	TT	GG	GG	INTERGENIC			
SNP_67945_A_202903	NW_004515796.1	scaffold277	202903	GG	AA	AA	INTERGENIC			
SNP_67946_A_203096	NW_004515796.1	scaffold277	203096	AA	TT	TT	INTERGENIC			
SNP_67947_A_203196	NW_004515796.1	scaffold277	203196	GG	AA	AA	INTERGENIC			
SNP_67948_A_205116	NW_004515796.1	scaffold277	205116	TT	CC	CC	INTERGENIC			
SNP_67949_A_205166	NW_004515796.1	scaffold277	205166	GG	TT	TT	INTERGENIC			
SNP_67950_A_205179	NW_004515796.1	scaffold277	205179	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67951_A_205331	NW_004515796.1	scaffold277	205331	TT	CC	CC	INTERGENIC			
SNP_67952_A_205337	NW_004515796.1	scaffold277	205337	TT	CC	CC	INTERGENIC			
SNP_67953_A_205353	NW_004515796.1	scaffold277	205353	CC	TT	TT	INTERGENIC			
SNP_67954_A_205416	NW_004515796.1	scaffold277	205416	TT	CC	CC	INTERGENIC			
SNP_67956_A_211021	NW_004515796.1	scaffold277	211021	GG	TT	TT	INTERGENIC			
SNP_67957_A_211032	NW_004515796.1	scaffold277	211032	GG	AA	AA	INTERGENIC			
SNP_67958_A_218472	NW_004515796.1	scaffold277	218472	AA	TT	TT	INTERGENIC			
SNP_67959_A_218582	NW_004515796.1	scaffold277	218582	AA	GG	GG	INTERGENIC			
SNP_67960_A_218598	NW_004515796.1	scaffold277	218598	AA	TT	TT	INTERGENIC			
SNP_67961_A_219641	NW_004515796.1	scaffold277	219641	GG	TT	TT	INTERGENIC			
SNP_67962_A_247178	NW_004515796.1	scaffold277	247178	AA	CC	CC	INTERGENIC			
SNP_67963_A_247438	NW_004515796.1	scaffold277	247438	AA	TT	TT	INTERGENIC			
SNP_67964_A_247446	NW_004515796.1	scaffold277	247446	CC	TT	TT	INTERGENIC			
SNP_67965_A_252096	NW_004515796.1	scaffold277	252096	CC	TT	TT	INTERGENIC			
SNP_67966_A_252116	NW_004515796.1	scaffold277	252116	CC	TT	TT	INTERGENIC			
SNP_67967_A_252175	NW_004515796.1	scaffold277	252175	TT	CC	CC	INTERGENIC			
SNP_67968_A_252220	NW_004515796.1	scaffold277	252220	CC	AA	AA	INTERGENIC			
SNP_67969_A_252352	NW_004515796.1	scaffold277	252352	AA	GG	GG	INTERGENIC			
SNP_67970_A_252378	NW_004515796.1	scaffold277	252378	GG	AA	AA	INTERGENIC			
SNP_67972_A_252496	NW_004515796.1	scaffold277	252496	AA	GG	GG	INTERGENIC			
SNP_67973_A_5176	NW_004515797.1	scaffold280	5176	TT	AA	AA	INTERGENIC			
SNP_67974_A_5203	NW_004515797.1	scaffold280	5203	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67975_A_5220	NW_004515797.1	scaffold280	5220	TT	CC	CC	INTERGENIC			
SNP_67976_A_5228	NW_004515797.1	scaffold280	5228	GG	AA	AA	INTERGENIC			
SNP_67977_A_6449	NW_004515797.1	scaffold280	6449	CC	TT	TT	INTERGENIC			
SNP_67978_A_10581	NW_004515797.1	scaffold280	10581	AA	CC	CC	INTERGENIC			
SNP_67979_A_10664	NW_004515797.1	scaffold280	10664	TT	CC	CC	INTERGENIC			
SNP_67981_A_15581	NW_004515797.1	scaffold280	15581	CC	AA	AA	INTERGENIC			
SNP_67982_A_15602	NW_004515797.1	scaffold280	15602	CC	AA	AA	INTERGENIC			
SNP_67983_A_17697	NW_004515797.1	scaffold280	17697	TT	GG	GG	INTERGENIC			
SNP_67984_A_17730	NW_004515797.1	scaffold280	17730	AA	TT	TT	INTERGENIC			
SNP_67985_A_17731	NW_004515797.1	scaffold280	17731	GG	AA	AA	INTERGENIC			
SNP_67986_A_17755	NW_004515797.1	scaffold280	17755	AA	GG	GG	INTERGENIC			
SNP_67987_A_17932	NW_004515797.1	scaffold280	17932	CC	AA	AA	INTERGENIC			
SNP_67988_A_17936	NW_004515797.1	scaffold280	17936	TT	AA	AA	INTERGENIC			
SNP_67989_A_17976	NW_004515797.1	scaffold280	17976	CC	AA	AA	INTERGENIC			
SNP_67990_A_17984	NW_004515797.1	scaffold280	17984	AA	GG	GG	INTERGENIC			
SNP_67991_A_18017	NW_004515797.1	scaffold280	18017	TT	CC	CC	INTERGENIC			
SNP_67992_A_18020	NW_004515797.1	scaffold280	18020	GG	CC	CC	INTERGENIC			
SNP_67993_A_23337	NW_004515797.1	scaffold280	23337	GG	AA	AA	INTERGENIC			
SNP_67994_A_35056	NW_004515797.1	scaffold280	35056	AA	GG	GG	URR	101495419	Unknown function	
SNP_67995_A_35138	NW_004515797.1	scaffold280	35138	GG	AA	AA	URR	101495419	Unknown function	
SNP_67996_A_35181	NW_004515797.1	scaffold280	35181	TT	CC	CC	INTERGENIC			
SNP_67997_A_35318	NW_004515797.1	scaffold280	35318	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_67998_A_47771	NW_004515797.1	scaffold280	47771	CC	GG	GG	INTERGENIC			
SNP_67999_A_47777	NW_004515797.1	scaffold280	47777	TT	CC	CC	INTERGENIC			
SNP_68001_A_58573	NW_004515797.1	scaffold280	58573	AA	CC	CC	INTERGENIC			
SNP_68002_A_61294	NW_004515797.1	scaffold280	61294	AA	TT	TT	INTERGENIC			
SNP_68003_A_61321	NW_004515797.1	scaffold280	61321	CC	TT	TT	INTERGENIC			
SNP_68004_A_61333	NW_004515797.1	scaffold280	61333	AA	TT	TT	INTERGENIC			
SNP_68005_A_61348	NW_004515797.1	scaffold280	61348	CC	AA	AA	INTERGENIC			
SNP_68006_A_62526	NW_004515797.1	scaffold280	62526	CC	AA	AA	INTERGENIC			
SNP_68007_A_70571	NW_004515797.1	scaffold280	70571	AA	GG	GG	INTERGENIC			
SNP_68008_A_73649	NW_004515797.1	scaffold280	73649	TT	CC	CC	INTERGENIC			
SNP_68009_A_73659	NW_004515797.1	scaffold280	73659	GG	TT	TT	INTERGENIC			
SNP_68010_A_73675	NW_004515797.1	scaffold280	73675	GG	CC	CC	INTERGENIC			
SNP_68011_A_73740	NW_004515797.1	scaffold280	73740	CC	TT	TT	INTERGENIC			
SNP_68012_A_74198	NW_004515797.1	scaffold280	74198	TT	CC	CC	INTERGENIC			
SNP_68013_A_74205	NW_004515797.1	scaffold280	74205	TT	CC	CC	INTERGENIC			
SNP_68014_A_74222	NW_004515797.1	scaffold280	74222	CC	AA	AA	INTERGENIC			
SNP_68015_A_74245	NW_004515797.1	scaffold280	74245	TT	GG	GG	INTERGENIC			
SNP_68016_A_74248	NW_004515797.1	scaffold280	74248	TT	CC	CC	INTERGENIC			
SNP_68017_A_77324	NW_004515797.1	scaffold280	77324	GG	AA	AA	INTERGENIC			
SNP_68018_A_77344	NW_004515797.1	scaffold280	77344	AA	TT	TT	INTERGENIC			
SNP_68019_A_77358	NW_004515797.1	scaffold280	77358	TT	AA	AA	INTERGENIC			
SNP_68020_A_79300	NW_004515797.1	scaffold280	79300	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68022_A_92653	NW_004515797.1	scaffold280	92653	TT	AA	AA	INTERGENIC		
SNP_68023_A_97919	NW_004515797.1	scaffold280	97919	CC	AA	AA	SYNONYMOUS_CODING	101494761	uncharacterized LOC101494761
SNP_68024_A_97957	NW_004515797.1	scaffold280	97957	TT	AA	AA	NON_SYNONYMOUS_CODING	101494761	uncharacterized LOC101494761
SNP_68025_A_97959	NW_004515797.1	scaffold280	97959	TT	GG	GG	NON_SYNONYMOUS_CODING	101494761	uncharacterized LOC101494761
SNP_68026_A_97978	NW_004515797.1	scaffold280	97978	TT	CC	CC	INTRON	101494761	uncharacterized LOC101494761
SNP_68027_A_97995	NW_004515797.1	scaffold280	97995	TT	CC	CC	INTRON	101494761	uncharacterized LOC101494761
SNP_68028_A_98175	NW_004515797.1	scaffold280	98175	AA	CC	CC	SYNONYMOUS_CODING	101494761	uncharacterized LOC101494761
SNP_68029_A_98417	NW_004515797.1	scaffold280	98417	AA	CC	CC	NON_SYNONYMOUS_CODING	101494761	uncharacterized LOC101494761
SNP_68030_A_106204	NW_004515797.1	scaffold280	106204	TT	AA	AA	INTERGENIC		
SNP_68031_A_106224	NW_004515797.1	scaffold280	106224	AA	GG	GG	INTERGENIC		
SNP_68032_A_106241	NW_004515797.1	scaffold280	106241	AA	GG	GG	INTERGENIC		
SNP_68033_A_106554	NW_004515797.1	scaffold280	106554	TT	AA	AA	INTERGENIC		
SNP_68034_A_106581	NW_004515797.1	scaffold280	106581	TT	CC	CC	INTERGENIC		
SNP_68035_A_107588	NW_004515797.1	scaffold280	107588	AA	GG	GG	INTERGENIC		
SNP_68036_A_107713	NW_004515797.1	scaffold280	107713	TT	GG	GG	INTERGENIC		
SNP_68037_A_107734	NW_004515797.1	scaffold280	107734	AA	CC	CC	INTERGENIC		
SNP_68038_A_107758	NW_004515797.1	scaffold280	107758	AA	GG	GG	INTERGENIC		
SNP_68039_A_107794	NW_004515797.1	scaffold280	107794	TT	CC	CC	INTERGENIC		
SNP_68040_A_107841	NW_004515797.1	scaffold280	107841	TT	GG	GG	INTERGENIC		
SNP_68041_A_108030	NW_004515797.1	scaffold280	108030	AA	TT	TT	INTERGENIC		
SNP_68042_A_108043	NW_004515797.1	scaffold280	108043	AA	GG	GG	INTERGENIC		
SNP_68043_A_108048	NW_004515797.1	scaffold280	108048	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68044_A_108185	NW_004515797.1	scaffold280	108185	GG	CC	CC	INTERGENIC		
SNP_68045_A_110262	NW_004515797.1	scaffold280	110262	AA	GG	GG	NON_SYNONYMOUS_CODING	101495089	Unknown function
SNP_68046_A_110356	NW_004515797.1	scaffold280	110356	TT	CC	CC	SYNONYMOUS_CODING	101495089	Unknown function
SNP_68047_A_112047	NW_004515797.1	scaffold280	112047	AA	GG	GG	URR	101495089	Unknown function
SNP_68048_A_112072	NW_004515797.1	scaffold280	112072	CC	AA	AA	URR	101495089	Unknown function
SNP_68049_A_112108	NW_004515797.1	scaffold280	112108	GG	AA	AA	URR	101495089	Unknown function
SNP_68050_A_112145	NW_004515797.1	scaffold280	112145	AA	GG	GG	URR	101495089	Unknown function
SNP_68051_A_113381	NW_004515797.1	scaffold280	113381	AA	TT	TT	URR	101495089	Unknown function
SNP_68052_A_113385	NW_004515797.1	scaffold280	113385	TT	GG	GG	URR	101495089	Unknown function
SNP_68053_A_113428	NW_004515797.1	scaffold280	113428	GG	TT	TT	URR	101495089	Unknown function
SNP_68054_A_113440	NW_004515797.1	scaffold280	113440	TT	GG	GG	URR	101495089	Unknown function
SNP_68055_A_113463	NW_004515797.1	scaffold280	113463	AA	GG	GG	URR	101495089	Unknown function
SNP_68056_A_113514	NW_004515797.1	scaffold280	113514	TT	GG	GG	URR	101495089	Unknown function
SNP_68057_A_113527	NW_004515797.1	scaffold280	113527	AA	CC	CC	URR	101495089	Unknown function
SNP_68058_A_113567	NW_004515797.1	scaffold280	113567	CC	GG	GG	INTERGENIC		
SNP_68059_A_113783	NW_004515797.1	scaffold280	113783	AA	GG	GG	INTERGENIC		
SNP_68060_A_113826	NW_004515797.1	scaffold280	113826	AA	GG	GG	INTERGENIC		
SNP_68061_A_113883	NW_004515797.1	scaffold280	113883	AA	GG	GG	INTERGENIC		
SNP_68062_A_114202	NW_004515797.1	scaffold280	114202	AA	GG	GG	INTERGENIC		
SNP_68064_A_114817	NW_004515797.1	scaffold280	114817	TT	CC	CC	INTERGENIC		
SNP_68065_A_114840	NW_004515797.1	scaffold280	114840	AA	GG	GG	INTERGENIC		
SNP_68066_A_114920	NW_004515797.1	scaffold280	114920	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68067_A_114938	NW_004515797.1	scaffold280	114938	AA	GG	GG	INTERGENIC		
SNP_68068_A_115013	NW_004515797.1	scaffold280	115013	GG	AA	AA	INTERGENIC		
SNP_68069_A_115105	NW_004515797.1	scaffold280	115105	AA	GG	GG	INTERGENIC		
SNP_68070_A_115124	NW_004515797.1	scaffold280	115124	AA	GG	GG	INTERGENIC		
SNP_68071_A_115195	NW_004515797.1	scaffold280	115195	TT	CC	CC	INTERGENIC		
SNP_68072_A_115377	NW_004515797.1	scaffold280	115377	AA	GG	GG	INTERGENIC		
SNP_68073_A_115460	NW_004515797.1	scaffold280	115460	TT	CC	CC	INTERGENIC		
SNP_68074_A_115508	NW_004515797.1	scaffold280	115508	AA	GG	GG	INTERGENIC		
SNP_68075_A_116800	NW_004515797.1	scaffold280	116800	TT	CC	CC	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68076_A_116803	NW_004515797.1	scaffold280	116803	AA	GG	GG	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68077_A_116899	NW_004515797.1	scaffold280	116899	AA	CC	CC	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68078_A_116904	NW_004515797.1	scaffold280	116904	TT	CC	CC	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68079_A_116930	NW_004515797.1	scaffold280	116930	AA	GG	GG	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68080_A_118402	NW_004515797.1	scaffold280	118402	AA	GG	GG	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68081_A_118610	NW_004515797.1	scaffold280	118610	AA	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68082_A_118782	NW_004515797.1	scaffold280	118782	TT	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68083_A_118823	NW_004515797.1	scaffold280	118823	AA	GG	GG	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68084_A_118904	NW_004515797.1	scaffold280	118904	TT	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68085_A_118947	NW_004515797.1	scaffold280	118947	AA	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68086_A_119037	NW_004515797.1	scaffold280	119037	GG	CC	CC	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68087_A_119045	NW_004515797.1	scaffold280	119045	AA	GG	GG	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68088_A_119079	NW_004515797.1	scaffold280	119079	TT	GG	GG	URR	101410595	transfer RNA tryptophan (anticodon CCA)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68089_A_119080	NW_004515797.1	scaffold280	119080	AA	TT	TT	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68090_A_119310	NW_004515797.1	scaffold280	119310	AA	CC	CC	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68091_A_119320	NW_004515797.1	scaffold280	119320	TT	CC	CC	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68092_A_119333	NW_004515797.1	scaffold280	119333	CC	TT	TT	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68093_A_119412	NW_004515797.1	scaffold280	119412	AA	CC	CC	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68094_A_119422	NW_004515797.1	scaffold280	119422	AA	GG	GG	URR		101410595	transfer RNA tryptophan (anticodon CCA)
SNP_68095_A_126670	NW_004515797.1	scaffold280	126670	AA	CC	CC	INTERGENIC			
SNP_68097_A_129022	NW_004515797.1	scaffold280	129022	AA	GG	GG	INTERGENIC			
SNP_68098_A_132330	NW_004515797.1	scaffold280	132330	GG	AA	AA	INTERGENIC			
SNP_68099_A_132336	NW_004515797.1	scaffold280	132336	TT	CC	CC	INTERGENIC			
SNP_68101_A_144312	NW_004515797.1	scaffold280	144312	TT	AA	AA	INTERGENIC			
SNP_68102_A_166230	NW_004515797.1	scaffold280	166230	CC	TT	TT	INTERGENIC			
SNP_68103_A_166261	NW_004515797.1	scaffold280	166261	GG	AA	AA	INTERGENIC			
SNP_68104_A_166308	NW_004515797.1	scaffold280	166308	CC	AA	AA	INTERGENIC			
SNP_68105_A_166500	NW_004515797.1	scaffold280	166500	GG	AA	AA	INTERGENIC			
SNP_68106_A_166564	NW_004515797.1	scaffold280	166564	AA	TT	TT	INTERGENIC			
SNP_68107_A_166630	NW_004515797.1	scaffold280	166630	TT	AA	AA	INTERGENIC			
SNP_68108_A_174152	NW_004515797.1	scaffold280	174152	GG	TT	TT	INTERGENIC			
SNP_68109_A_199482	NW_004515797.1	scaffold280	199482	AA	GG	GG	INTERGENIC			
SNP_68110_A_199889	NW_004515797.1	scaffold280	199889	GG	AA	AA	INTERGENIC			
SNP_68111_A_206063	NW_004515797.1	scaffold280	206063	AA	GG	GG	INTERGENIC			
SNP_68112_A_206136	NW_004515797.1	scaffold280	206136	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68113_A_206273	NW_004515797.1	scaffold280	206273	CC	AA	AA	INTERGENIC			
SNP_68114_A_216661	NW_004515797.1	scaffold280	216661	GG	AA	AA	INTERGENIC			
SNP_68115_A_217409	NW_004515797.1	scaffold280	217409	AA	GG	GG	INTERGENIC			
SNP_68116_A_220271	NW_004515797.1	scaffold280	220271	AA	CC	CC	INTERGENIC			
SNP_68117_A_258911	NW_004515797.1	scaffold280	258911	CC	AA	AA	INTERGENIC			
SNP_68119_A_283234	NW_004515797.1	scaffold280	283234	GG	AA	AA	INTERGENIC			
SNP_68120_A_294680	NW_004515797.1	scaffold280	294680	AA	GG	GG	INTERGENIC			
SNP_68121_A_294681	NW_004515797.1	scaffold280	294681	AA	GG	GG	INTERGENIC			
SNP_68122_A_294980	NW_004515797.1	scaffold280	294980	AA	GG	GG	INTERGENIC			
SNP_68123_A_298356	NW_004515797.1	scaffold280	298356	TT	AA	AA	INTERGENIC			
SNP_68124_A_302072	NW_004515797.1	scaffold280	302072	TT	CC	CC	INTERGENIC			
SNP_68125_A_302468	NW_004515797.1	scaffold280	302468	GG	CC	CC	INTERGENIC			
SNP_68126_A_302535	NW_004515797.1	scaffold280	302535	AA	CC	CC	INTERGENIC			
SNP_68127_A_309062	NW_004515797.1	scaffold280	309062	GG	TT	TT	INTERGENIC			
SNP_68128_A_309065	NW_004515797.1	scaffold280	309065	TT	AA	AA	INTERGENIC			
SNP_68129_A_319725	NW_004515797.1	scaffold280	319725	TT	GG	GG	INTERGENIC			
SNP_68130_A_319835	NW_004515797.1	scaffold280	319835	TT	GG	GG	INTERGENIC			
SNP_68131_A_319848	NW_004515797.1	scaffold280	319848	CC	AA	AA	INTERGENIC			
SNP_68132_A_320172	NW_004515797.1	scaffold280	320172	TT	CC	CC	INTERGENIC			
SNP_68133_A_324390	NW_004515797.1	scaffold280	324390	TT	GG	GG	INTERGENIC			
SNP_68134_A_324426	NW_004515797.1	scaffold280	324426	CC	TT	TT	INTERGENIC			
SNP_68135_A_324466	NW_004515797.1	scaffold280	324466	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68136_A_324472	NW_004515797.1	scaffold280	324472	GG	AA	AA	INTERGENIC		
SNP_68137_A_324527	NW_004515797.1	scaffold280	324527	TT	AA	AA	INTERGENIC		
SNP_68138_A_335237	NW_004515797.1	scaffold280	335237	TT	CC	CC	INTERGENIC		
SNP_68139_A_344009	NW_004515797.1	scaffold280	344009	TT	AA	AA	INTERGENIC		
SNP_68140_A_351773	NW_004515797.1	scaffold280	351773	GG	AA	AA	INTERGENIC		
SNP_68141_A_351906	NW_004515797.1	scaffold280	351906	CC	TT	TT	INTERGENIC		
SNP_68142_A_352432	NW_004515797.1	scaffold280	352432	CC	AA	AA	INTERGENIC		
SNP_68143_A_352450	NW_004515797.1	scaffold280	352450	TT	CC	CC	INTERGENIC		
SNP_68144_A_352542	NW_004515797.1	scaffold280	352542	TT	CC	CC	INTERGENIC		
SNP_68145_A_366869	NW_004515797.1	scaffold280	366869	GG	TT	TT	INTERGENIC		
SNP_68146_A_373421	NW_004515797.1	scaffold280	373421	AA	GG	GG	URR	101495750	Unknown function
SNP_68147_A_373494	NW_004515797.1	scaffold280	373494	GG	AA	AA	URR	101495750	Unknown function
SNP_68148_A_373644	NW_004515797.1	scaffold280	373644	TT	CC	CC	URR	101495750	Unknown function
SNP_68149_A_373785	NW_004515797.1	scaffold280	373785	AA	GG	GG	URR	101495750	Unknown function
SNP_68150_A_374425	NW_004515797.1	scaffold280	374425	AA	CC	CC	INTERGENIC		
SNP_68151_A_374436	NW_004515797.1	scaffold280	374436	CC	TT	TT	INTERGENIC		
SNP_68152_A_374764	NW_004515797.1	scaffold280	374764	AA	GG	GG	INTERGENIC		
SNP_68153_A_374789	NW_004515797.1	scaffold280	374789	TT	GG	GG	INTERGENIC		
SNP_68154_A_374811	NW_004515797.1	scaffold280	374811	AA	GG	GG	INTERGENIC		
SNP_68155_A_375152	NW_004515797.1	scaffold280	375152	AA	GG	GG	INTERGENIC		
SNP_68156_A_375214	NW_004515797.1	scaffold280	375214	AA	CC	CC	INTERGENIC		
SNP_68157_A_375412	NW_004515797.1	scaffold280	375412	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68158_A_378853	NW_004515797.1	scaffold280	378853	CC	AA	AA	INTERGENIC			
SNP_68159_A_378885	NW_004515797.1	scaffold280	378885	TT	AA	AA	INTERGENIC			
SNP_68160_A_378934	NW_004515797.1	scaffold280	378934	TT	CC	CC	INTERGENIC			
SNP_68161_A_379510	NW_004515797.1	scaffold280	379510	TT	CC	CC	INTERGENIC			
SNP_68162_A_379573	NW_004515797.1	scaffold280	379573	AA	TT	TT	INTERGENIC			
SNP_68163_A_380426	NW_004515797.1	scaffold280	380426	GG	AA	AA	INTERGENIC			
SNP_68164_A_381816	NW_004515797.1	scaffold280	381816	AA	CC	CC	INTERGENIC			
SNP_68165_A_381825	NW_004515797.1	scaffold280	381825	AA	TT	TT	INTERGENIC			
SNP_68166_A_381827	NW_004515797.1	scaffold280	381827	AA	GG	GG	INTERGENIC			
SNP_68167_A_381835	NW_004515797.1	scaffold280	381835	TT	GG	GG	INTERGENIC			
SNP_68168_A_381909	NW_004515797.1	scaffold280	381909	GG	AA	AA	INTERGENIC			
SNP_68169_A_382141	NW_004515797.1	scaffold280	382141	GG	TT	TT	INTERGENIC			
SNP_68170_A_382196	NW_004515797.1	scaffold280	382196	GG	AA	AA	INTERGENIC			
SNP_68171_A_385613	NW_004515797.1	scaffold280	385613	GG	AA	AA	INTERGENIC			
SNP_68172_A_385616	NW_004515797.1	scaffold280	385616	CC	AA	AA	INTERGENIC			
SNP_68173_A_385678	NW_004515797.1	scaffold280	385678	AA	CC	CC	INTERGENIC			
SNP_68174_A_385887	NW_004515797.1	scaffold280	385887	GG	TT	TT	INTERGENIC			
SNP_68175_A_626	NW_004515798.1	scaffold281	626	TT	CC	CC	INTERGENIC			
SNP_68176_A_629	NW_004515798.1	scaffold281	629	CC	TT	TT	INTERGENIC			
SNP_68177_A_699	NW_004515798.1	scaffold281	699	AA	GG	GG	INTERGENIC			
SNP_68178_A_739	NW_004515798.1	scaffold281	739	AA	TT	TT	INTERGENIC			
SNP_68179_A_791	NW_004515798.1	scaffold281	791	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68180_A_793	NW_004515798.1	scaffold281	793	GG	AA	AA	INTERGENIC			
SNP_68181_A_802	NW_004515798.1	scaffold281	802	AA	GG	GG	INTERGENIC			
SNP_68182_A_817	NW_004515798.1	scaffold281	817	CC	GG	GG	INTERGENIC			
SNP_68183_A_857	NW_004515798.1	scaffold281	857	GG	AA	AA	INTERGENIC			
SNP_68184_A_895	NW_004515798.1	scaffold281	895	AA	CC	CC	INTERGENIC			
SNP_68185_A_910	NW_004515798.1	scaffold281	910	TT	CC	CC	INTERGENIC			
SNP_68186_A_930	NW_004515798.1	scaffold281	930	GG	AA	AA	INTERGENIC			
SNP_68187_A_1045	NW_004515798.1	scaffold281	1045	GG	AA	AA	INTERGENIC			
SNP_68188_A_1170	NW_004515798.1	scaffold281	1170	CC	TT	TT	INTERGENIC			
SNP_68189_A_1195	NW_004515798.1	scaffold281	1195	CC	TT	TT	INTERGENIC			
SNP_68190_A_1217	NW_004515798.1	scaffold281	1217	GG	TT	TT	INTERGENIC			
SNP_68191_A_1251	NW_004515798.1	scaffold281	1251	AA	GG	GG	INTERGENIC			
SNP_68193_A_1322	NW_004515798.1	scaffold281	1322	TT	CC	CC	INTERGENIC			
SNP_68196_A_1547	NW_004515798.1	scaffold281	1547	TT	CC	CC	INTERGENIC			
SNP_68197_A_1618	NW_004515798.1	scaffold281	1618	GG	TT	TT	INTERGENIC			
SNP_68198_A_1652	NW_004515798.1	scaffold281	1652	TT	AA	AA	INTERGENIC			
SNP_68199_A_1653	NW_004515798.1	scaffold281	1653	GG	AA	AA	INTERGENIC			
SNP_68200_A_1657	NW_004515798.1	scaffold281	1657	TT	CC	CC	INTERGENIC			
SNP_68201_A_1661	NW_004515798.1	scaffold281	1661	TT	CC	CC	INTERGENIC			
SNP_68202_A_1711	NW_004515798.1	scaffold281	1711	AA	GG	GG	INTERGENIC			
SNP_68203_A_1744	NW_004515798.1	scaffold281	1744	AA	GG	GG	INTERGENIC			
SNP_68204_A_1755	NW_004515798.1	scaffold281	1755	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68205_A_1775	NW_004515798.1	scaffold281	1775	AA	GG	GG	INTERGENIC			
SNP_68206_A_1779	NW_004515798.1	scaffold281	1779	AA	GG	GG	INTERGENIC			
SNP_68207_A_1782	NW_004515798.1	scaffold281	1782	GG	AA	AA	INTERGENIC			
SNP_68208_A_2138	NW_004515798.1	scaffold281	2138	AA	GG	GG	INTERGENIC			
SNP_68209_A_2159	NW_004515798.1	scaffold281	2159	GG	CC	CC	INTERGENIC			
SNP_68211_A_2273	NW_004515798.1	scaffold281	2273	CC	TT	TT	INTERGENIC			
SNP_68212_A_2278	NW_004515798.1	scaffold281	2278	TT	CC	CC	INTERGENIC			
SNP_68213_A_2286	NW_004515798.1	scaffold281	2286	AA	TT	TT	INTERGENIC			
SNP_68214_A_2624	NW_004515798.1	scaffold281	2624	TT	CC	CC	INTERGENIC			
SNP_68215_A_2625	NW_004515798.1	scaffold281	2625	TT	GG	GG	INTERGENIC			
SNP_68216_A_2659	NW_004515798.1	scaffold281	2659	CC	TT	TT	INTERGENIC			
SNP_68217_A_2935	NW_004515798.1	scaffold281	2935	GG	TT	TT	INTERGENIC			
SNP_68219_A_3034	NW_004515798.1	scaffold281	3034	CC	TT	TT	INTERGENIC			
SNP_68221_A_3141	NW_004515798.1	scaffold281	3141	AA	CC	CC	INTERGENIC			
SNP_68222_A_3256	NW_004515798.1	scaffold281	3256	TT	CC	CC	INTERGENIC			
SNP_68223_A_3274	NW_004515798.1	scaffold281	3274	TT	CC	CC	INTERGENIC			
SNP_68224_A_3362	NW_004515798.1	scaffold281	3362	CC	AA	AA	INTERGENIC			
SNP_68226_A_3433	NW_004515798.1	scaffold281	3433	TT	AA	AA	INTERGENIC			
SNP_68227_A_3439	NW_004515798.1	scaffold281	3439	GG	AA	AA	INTERGENIC			
SNP_68228_A_3442	NW_004515798.1	scaffold281	3442	GG	CC	CC	INTERGENIC			
SNP_68229_A_3480	NW_004515798.1	scaffold281	3480	CC	GG	GG	INTERGENIC			
SNP_68230_A_3510	NW_004515798.1	scaffold281	3510	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68231_A_3561	NW_004515798.1	scaffold281	3561	AA	TT	TT	INTERGENIC			
SNP_68232_A_3603	NW_004515798.1	scaffold281	3603	AA	GG	GG	INTERGENIC			
SNP_68233_A_3648	NW_004515798.1	scaffold281	3648	AA	GG	GG	INTERGENIC			
SNP_68234_A_3651	NW_004515798.1	scaffold281	3651	TT	CC	CC	INTERGENIC			
SNP_68235_A_3694	NW_004515798.1	scaffold281	3694	TT	CC	CC	INTERGENIC			
SNP_68236_A_3719	NW_004515798.1	scaffold281	3719	CC	TT	TT	INTERGENIC			
SNP_68238_A_3757	NW_004515798.1	scaffold281	3757	CC	TT	TT	INTERGENIC			
SNP_68239_A_3810	NW_004515798.1	scaffold281	3810	GG	CC	CC	INTERGENIC			
SNP_68240_A_3880	NW_004515798.1	scaffold281	3880	AA	GG	GG	INTERGENIC			
SNP_68241_A_3908	NW_004515798.1	scaffold281	3908	AA	CC	CC	INTERGENIC			
SNP_68242_A_4031	NW_004515798.1	scaffold281	4031	AA	CC	CC	INTERGENIC			
SNP_68243_A_4093	NW_004515798.1	scaffold281	4093	TT	AA	AA	INTERGENIC			
SNP_68245_A_4173	NW_004515798.1	scaffold281	4173	AA	GG	GG	INTERGENIC			
SNP_68247_A_4234	NW_004515798.1	scaffold281	4234	TT	CC	CC	INTERGENIC			
SNP_68248_A_4248	NW_004515798.1	scaffold281	4248	TT	CC	CC	INTERGENIC			
SNP_68249_A_4347	NW_004515798.1	scaffold281	4347	TT	AA	AA	INTERGENIC			
SNP_68250_A_4976	NW_004515798.1	scaffold281	4976	AA	CC	CC	INTERGENIC			
SNP_68251_A_5168	NW_004515798.1	scaffold281	5168	TT	CC	CC	INTERGENIC			
SNP_68252_A_5181	NW_004515798.1	scaffold281	5181	TT	AA	AA	INTERGENIC			
SNP_68253_A_5182	NW_004515798.1	scaffold281	5182	AA	CC	CC	INTERGENIC			
SNP_68254_A_5200	NW_004515798.1	scaffold281	5200	CC	TT	TT	INTERGENIC			
SNP_68255_A_5345	NW_004515798.1	scaffold281	5345	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68256_A_5362	NW_004515798.1	scaffold281	5362	AA	GG	GG	INTERGENIC			
SNP_68257_A_5363	NW_004515798.1	scaffold281	5363	CC	GG	GG	INTERGENIC			
SNP_68258_A_8402	NW_004515798.1	scaffold281	8402	TT	CC	CC	INTERGENIC			
SNP_68259_A_8457	NW_004515798.1	scaffold281	8457	CC	AA	AA	INTERGENIC			
SNP_68260_A_8574	NW_004515798.1	scaffold281	8574	TT	CC	CC	INTERGENIC			
SNP_68261_A_8824	NW_004515798.1	scaffold281	8824	AA	TT	TT	INTERGENIC			
SNP_68262_A_9277	NW_004515798.1	scaffold281	9277	GG	CC	CC	INTERGENIC			
SNP_68264_A_9337	NW_004515798.1	scaffold281	9337	CC	TT	TT	INTERGENIC			
SNP_68265_A_9372	NW_004515798.1	scaffold281	9372	TT	CC	CC	INTERGENIC			
SNP_68266_A_27037	NW_004515798.1	scaffold281	27037	CC	TT	TT	INTERGENIC			
SNP_68267_A_27223	NW_004515798.1	scaffold281	27223	CC	TT	TT	INTERGENIC			
SNP_68269_A_27245	NW_004515798.1	scaffold281	27245	AA	GG	GG	INTERGENIC			
SNP_68270_A_27248	NW_004515798.1	scaffold281	27248	AA	GG	GG	INTERGENIC			
SNP_68271_A_27249	NW_004515798.1	scaffold281	27249	TT	GG	GG	INTERGENIC			
SNP_68272_A_27268	NW_004515798.1	scaffold281	27268	AA	GG	GG	INTERGENIC			
SNP_68273_A_27314	NW_004515798.1	scaffold281	27314	AA	GG	GG	INTERGENIC			
SNP_68274_A_27317	NW_004515798.1	scaffold281	27317	AA	GG	GG	INTERGENIC			
SNP_68275_A_27338	NW_004515798.1	scaffold281	27338	AA	GG	GG	INTERGENIC			
SNP_68276_A_27349	NW_004515798.1	scaffold281	27349	GG	AA	AA	INTERGENIC			
SNP_68277_A_27394	NW_004515798.1	scaffold281	27394	AA	TT	TT	INTERGENIC			
SNP_68278_A_27396	NW_004515798.1	scaffold281	27396	AA	TT	TT	INTERGENIC			
SNP_68279_A_27468	NW_004515798.1	scaffold281	27468	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68280_A_29202	NW_004515798.1	scaffold281	29202	TT	GG	GG	INTERGENIC			
SNP_68281_A_34319	NW_004515798.1	scaffold281	34319	AA	GG	GG	INTERGENIC			
SNP_68282_A_6049	NW_004515799.1	scaffold282	6049	AA	CC	CC	INTERGENIC			
SNP_68283_A_39469	NW_004515799.1	scaffold282	39469	TT	GG	GG	INTERGENIC			
SNP_68284_A_39573	NW_004515799.1	scaffold282	39573	CC	TT	TT	INTERGENIC			
SNP_68285_A_39578	NW_004515799.1	scaffold282	39578	CC	TT	TT	INTERGENIC			
SNP_68286_A_39717	NW_004515799.1	scaffold282	39717	GG	CC	CC	INTERGENIC			
SNP_68287_A_39728	NW_004515799.1	scaffold282	39728	CC	TT	TT	INTERGENIC			
SNP_68288_A_39732	NW_004515799.1	scaffold282	39732	GG	CC	CC	INTERGENIC			
SNP_68289_A_39921	NW_004515799.1	scaffold282	39921	CC	TT	TT	INTERGENIC			
SNP_68290_A_39947	NW_004515799.1	scaffold282	39947	GG	AA	AA	INTERGENIC			
SNP_68291_A_52007	NW_004515799.1	scaffold282	52007	GG	AA	AA	INTERGENIC			
SNP_68292_A_65391	NW_004515799.1	scaffold282	65391	CC	AA	AA	INTERGENIC			
SNP_68293_A_75273	NW_004515799.1	scaffold282	75273	GG	TT	TT	INTERGENIC			
SNP_68294_A_75274	NW_004515799.1	scaffold282	75274	GG	AA	AA	INTERGENIC			
SNP_68295_A_75288	NW_004515799.1	scaffold282	75288	CC	TT	TT	INTERGENIC			
SNP_68296_A_75296	NW_004515799.1	scaffold282	75296	AA	GG	GG	INTERGENIC			
SNP_68297_A_75311	NW_004515799.1	scaffold282	75311	AA	GG	GG	INTERGENIC			
SNP_68298_A_75328	NW_004515799.1	scaffold282	75328	AA	GG	GG	INTERGENIC			
SNP_68299_A_75387	NW_004515799.1	scaffold282	75387	CC	TT	TT	INTERGENIC			
SNP_68300_A_75425	NW_004515799.1	scaffold282	75425	CC	TT	TT	INTERGENIC			
SNP_68301_A_78115	NW_004515799.1	scaffold282	78115	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68302_A_5429	NW_004515800.1	scaffold283	5429	TT	CC	CC	INTERGENIC			
SNP_68303_A_5882	NW_004515800.1	scaffold283	5882	TT	CC	CC	INTERGENIC			
SNP_68304_A_5900	NW_004515800.1	scaffold283	5900	AA	TT	TT	INTERGENIC			
SNP_68305_A_16369	NW_004515800.1	scaffold283	16369	AA	GG	GG	INTERGENIC			
SNP_68307_A_16493	NW_004515800.1	scaffold283	16493	AA	GG	GG	INTERGENIC			
SNP_68308_A_16513	NW_004515800.1	scaffold283	16513	TT	CC	CC	INTERGENIC			
SNP_68309_A_24655	NW_004515800.1	scaffold283	24655	AA	TT	TT	INTERGENIC			
SNP_68310_A_29409	NW_004515800.1	scaffold283	29409	CC	GG	GG	INTERGENIC			
SNP_68311_A_29924	NW_004515800.1	scaffold283	29924	AA	GG	GG	INTERGENIC			
SNP_68312_A_91167	NW_004515800.1	scaffold283	91167	AA	GG	GG	INTERGENIC			
SNP_68313_A_95602	NW_004515800.1	scaffold283	95602	CC	TT	TT	INTERGENIC			
SNP_68314_A_95918	NW_004515800.1	scaffold283	95918	AA	GG	GG	INTERGENIC			
SNP_68315_A_95966	NW_004515800.1	scaffold283	95966	TT	GG	GG	INTERGENIC			
SNP_68316_A_110710	NW_004515800.1	scaffold283	110710	TT	AA	AA	INTERGENIC			
SNP_68317_A_3921	NW_004515801.1	scaffold284	3921	CC	TT	TT	INTERGENIC			
SNP_68319_A_4740	NW_004515801.1	scaffold284	4740	TT	CC	CC	INTERGENIC			
SNP_68320_A_4815	NW_004515801.1	scaffold284	4815	CC	GG	GG	INTERGENIC			
SNP_68321_A_4913	NW_004515801.1	scaffold284	4913	AA	CC	CC	INTERGENIC			
SNP_68322_A_4950	NW_004515801.1	scaffold284	4950	TT	CC	CC	INTERGENIC			
SNP_68323_A_6182	NW_004515801.1	scaffold284	6182	GG	AA	AA	INTERGENIC			
SNP_68324_A_7270	NW_004515801.1	scaffold284	7270	CC	GG	GG	INTERGENIC			
SNP_68325_A_10354	NW_004515801.1	scaffold284	10354	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68326_A_10799	NW_004515801.1	scaffold284	10799	GG	AA	AA	INTERGENIC			
SNP_68327_A_10820	NW_004515801.1	scaffold284	10820	GG	AA	AA	INTERGENIC			
SNP_68328_A_12292	NW_004515801.1	scaffold284	12292	TT	AA	AA	INTERGENIC			
SNP_68329_A_13103	NW_004515801.1	scaffold284	13103	GG	TT	TT	INTERGENIC			
SNP_68330_A_13123	NW_004515801.1	scaffold284	13123	AA	CC	CC	INTERGENIC			
SNP_68332_A_14633	NW_004515801.1	scaffold284	14633	AA	GG	GG	INTERGENIC			
SNP_68334_A_15416	NW_004515801.1	scaffold284	15416	GG	TT	TT	INTERGENIC			
SNP_68335_A_15536	NW_004515801.1	scaffold284	15536	TT	AA	AA	INTERGENIC			
SNP_68336_A_16966	NW_004515801.1	scaffold284	16966	GG	AA	AA	INTERGENIC			
SNP_68337_A_17371	NW_004515801.1	scaffold284	17371	CC	TT	TT	INTERGENIC			
SNP_68338_A_21576	NW_004515801.1	scaffold284	21576	GG	TT	TT	INTERGENIC			
SNP_68339_A_21742	NW_004515801.1	scaffold284	21742	GG	AA	AA	INTERGENIC			
SNP_68340_A_21839	NW_004515801.1	scaffold284	21839	AA	CC	CC	INTERGENIC			
SNP_68341_A_21868	NW_004515801.1	scaffold284	21868	AA	TT	TT	INTERGENIC			
SNP_68342_A_22099	NW_004515801.1	scaffold284	22099	AA	TT	TT	INTERGENIC			
SNP_68343_A_22131	NW_004515801.1	scaffold284	22131	CC	TT	TT	INTERGENIC			
SNP_68344_A_40767	NW_004515801.1	scaffold284	40767	TT	AA	AA	INTERGENIC			
SNP_68345_A_40773	NW_004515801.1	scaffold284	40773	CC	AA	AA	INTERGENIC			
SNP_68346_A_40779	NW_004515801.1	scaffold284	40779	AA	TT	TT	INTERGENIC			
SNP_68348_A_49893	NW_004515801.1	scaffold284	49893	TT	GG	GG	INTERGENIC			
SNP_68349_A_49916	NW_004515801.1	scaffold284	49916	GG	CC	CC	INTERGENIC			
SNP_68350_A_49951	NW_004515801.1	scaffold284	49951	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68351_A_49962	NW_004515801.1	scaffold284	49962	GG	AA	AA	INTERGENIC			
SNP_68352_A_49971	NW_004515801.1	scaffold284	49971	GG	AA	AA	INTERGENIC			
SNP_68353_A_50028	NW_004515801.1	scaffold284	50028	CC	TT	TT	INTERGENIC			
SNP_68354_A_50099	NW_004515801.1	scaffold284	50099	AA	TT	TT	INTERGENIC			
SNP_68355_A_50111	NW_004515801.1	scaffold284	50111	GG	AA	AA	INTERGENIC			
SNP_68356_A_50116	NW_004515801.1	scaffold284	50116	TT	GG	GG	INTERGENIC			
SNP_68357_A_50148	NW_004515801.1	scaffold284	50148	TT	AA	AA	INTERGENIC			
SNP_68358_A_50173	NW_004515801.1	scaffold284	50173	GG	CC	CC	INTERGENIC			
SNP_68359_A_50201	NW_004515801.1	scaffold284	50201	TT	AA	AA	INTERGENIC			
SNP_68360_A_50221	NW_004515801.1	scaffold284	50221	AA	GG	GG	INTERGENIC			
SNP_68361_A_50230	NW_004515801.1	scaffold284	50230	AA	TT	TT	INTERGENIC			
SNP_68362_A_50264	NW_004515801.1	scaffold284	50264	GG	TT	TT	INTERGENIC			
SNP_68363_A_50268	NW_004515801.1	scaffold284	50268	AA	GG	GG	INTERGENIC			
SNP_68364_A_50291	NW_004515801.1	scaffold284	50291	GG	TT	TT	INTERGENIC			
SNP_68365_A_50302	NW_004515801.1	scaffold284	50302	TT	AA	AA	INTERGENIC			
SNP_68366_A_64328	NW_004515801.1	scaffold284	64328	TT	AA	AA	INTERGENIC			
SNP_68367_A_104480	NW_004515801.1	scaffold284	104480	GG	TT	TT	INTERGENIC			
SNP_68369_A_105263	NW_004515801.1	scaffold284	105263	GG	AA	AA	INTERGENIC			
SNP_68370_A_105266	NW_004515801.1	scaffold284	105266	TT	CC	CC	INTERGENIC			
SNP_68372_A_206950	NW_004515801.1	scaffold284	206950	TT	GG	GG	INTERGENIC			
SNP_68373_A_207167	NW_004515801.1	scaffold284	207167	CC	TT	TT	INTERGENIC			
SNP_68374_A_207176	NW_004515801.1	scaffold284	207176	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68375_A_207339	NW_004515801.1	scaffold284	207339	TT	GG	GG	INTERGENIC			
SNP_68376_A_257130	NW_004515801.1	scaffold284	257130	TT	CC	CC	INTERGENIC			
SNP_68377_A_257134	NW_004515801.1	scaffold284	257134	TT	AA	AA	INTERGENIC			
SNP_68378_A_257141	NW_004515801.1	scaffold284	257141	CC	TT	TT	INTERGENIC			
SNP_68379_A_257170	NW_004515801.1	scaffold284	257170	CC	AA	AA	INTERGENIC			
SNP_68380_A_257181	NW_004515801.1	scaffold284	257181	TT	CC	CC	INTERGENIC			
SNP_68381_A_257184	NW_004515801.1	scaffold284	257184	AA	TT	TT	INTERGENIC			
SNP_68382_A_257186	NW_004515801.1	scaffold284	257186	AA	GG	GG	INTERGENIC			
SNP_68383_A_257210	NW_004515801.1	scaffold284	257210	GG	AA	AA	INTERGENIC			
SNP_68384_A_257246	NW_004515801.1	scaffold284	257246	CC	TT	TT	INTERGENIC			
SNP_68385_A_257251	NW_004515801.1	scaffold284	257251	GG	AA	AA	INTERGENIC			
SNP_68386_A_257252	NW_004515801.1	scaffold284	257252	AA	TT	TT	INTERGENIC			
SNP_68387_A_257435	NW_004515801.1	scaffold284	257435	CC	AA	AA	INTERGENIC			
SNP_68388_A_257557	NW_004515801.1	scaffold284	257557	GG	TT	TT	INTERGENIC			
SNP_68389_A_257560	NW_004515801.1	scaffold284	257560	AA	GG	GG	INTERGENIC			
SNP_68390_A_266872	NW_004515801.1	scaffold284	266872	AA	CC	CC	INTERGENIC			
SNP_68391_A_328545	NW_004515801.1	scaffold284	328545	AA	TT	TT	INTERGENIC			
SNP_68392_A_352335	NW_004515801.1	scaffold284	352335	AA	GG	GG	INTERGENIC			
SNP_68393_A_352630	NW_004515801.1	scaffold284	352630	GG	AA	AA	INTERGENIC			
SNP_68394_A_352672	NW_004515801.1	scaffold284	352672	AA	GG	GG	INTERGENIC			
SNP_68395_A_352906	NW_004515801.1	scaffold284	352906	GG	TT	TT	INTERGENIC			
SNP_68396_A_352945	NW_004515801.1	scaffold284	352945	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68397_A_353197	NW_004515801.1	scaffold284	353197	GG	AA	AA	INTERGENIC			
SNP_68398_A_353392	NW_004515801.1	scaffold284	353392	TT	CC	CC	INTERGENIC			
SNP_68400_A_463245	NW_004515801.1	scaffold284	463245	CC	AA	AA	INTERGENIC			
SNP_68401_A_463254	NW_004515801.1	scaffold284	463254	TT	GG	GG	INTERGENIC			
SNP_68402_A_465821	NW_004515801.1	scaffold284	465821	CC	TT	TT	INTERGENIC			
SNP_68403_A_472743	NW_004515801.1	scaffold284	472743	CC	TT	TT	INTERGENIC			
SNP_68404_A_473093	NW_004515801.1	scaffold284	473093	AA	GG	GG	INTERGENIC			
SNP_68407_A_537236	NW_004515801.1	scaffold284	537236	GG	TT	TT	INTERGENIC			
SNP_68409_A_766553	NW_004515801.1	scaffold284	766553	CC	TT	TT	INTERGENIC			
SNP_68410_A_766623	NW_004515801.1	scaffold284	766623	AA	CC	CC	INTERGENIC			
SNP_68411_A_771334	NW_004515801.1	scaffold284	771334	GG	AA	AA	INTERGENIC			
SNP_68412_A_778528	NW_004515801.1	scaffold284	778528	CC	TT	TT	INTERGENIC			
SNP_68413_A_803441	NW_004515801.1	scaffold284	803441	TT	GG	GG	INTERGENIC			
SNP_68414_A_803445	NW_004515801.1	scaffold284	803445	GG	TT	TT	INTERGENIC			
SNP_68415_A_829049	NW_004515801.1	scaffold284	829049	TT	AA	AA	INTERGENIC			
SNP_68416_A_870831	NW_004515801.1	scaffold284	870831	TT	CC	CC	INTERGENIC			
SNP_68417_A_871060	NW_004515801.1	scaffold284	871060	GG	AA	AA	INTERGENIC			
SNP_68418_A_871072	NW_004515801.1	scaffold284	871072	AA	CC	CC	INTERGENIC			
SNP_68419_A_902093	NW_004515801.1	scaffold284	902093	TT	AA	AA	INTERGENIC			
SNP_68420_A_902098	NW_004515801.1	scaffold284	902098	CC	AA	AA	INTERGENIC			
SNP_68421_A_902101	NW_004515801.1	scaffold284	902101	AA	GG	GG	INTERGENIC			
SNP_68422_A_902108	NW_004515801.1	scaffold284	902108	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68423_A_902112	NW_004515801.1	scaffold284	902112	AA	TT	TT	INTERGENIC		
SNP_68424_A_902114	NW_004515801.1	scaffold284	902114	TT	AA	AA	INTERGENIC		
SNP_68425_A_902124	NW_004515801.1	scaffold284	902124	GG	TT	TT	INTERGENIC		
SNP_68426_A_902128	NW_004515801.1	scaffold284	902128	AA	CC	CC	INTERGENIC		
SNP_68427_A_902137	NW_004515801.1	scaffold284	902137	AA	CC	CC	INTERGENIC		
SNP_68428_A_902139	NW_004515801.1	scaffold284	902139	CC	GG	GG	INTERGENIC		
SNP_68429_A_908304	NW_004515801.1	scaffold284	908304	CC	AA	AA	INTERGENIC		
SNP_68430_A_915520	NW_004515801.1	scaffold284	915520	GG	AA	AA	INTERGENIC		
SNP_68431_A_18511	NW_004515803.1	scaffold287	18511	AA	TT	TT	URR	101505749	Unknown function
SNP_68432_A_18542	NW_004515803.1	scaffold287	18542	GG	AA	AA	URR	101505749	Unknown function
SNP_68433_A_18551	NW_004515803.1	scaffold287	18551	GG	TT	TT	URR	101505749	Unknown function
SNP_68434_A_19223	NW_004515803.1	scaffold287	19223	GG	CC	CC	URR	101505749	Unknown function
SNP_68435_A_19253	NW_004515803.1	scaffold287	19253	AA	TT	TT	URR	101505749	Unknown function
SNP_68436_A_19257	NW_004515803.1	scaffold287	19257	TT	GG	GG	URR	101505749	Unknown function
SNP_68437_A_19429	NW_004515803.1	scaffold287	19429	AA	TT	TT	URR	101505749	Unknown function
SNP_68438_A_19462	NW_004515803.1	scaffold287	19462	TT	GG	GG	URR	101505749	Unknown function
SNP_68439_A_19519	NW_004515803.1	scaffold287	19519	TT	AA	AA	URR	101505749	Unknown function
SNP_68440_A_19534	NW_004515803.1	scaffold287	19534	TT	CC	CC	URR	101505749	Unknown function
SNP_68441_A_19565	NW_004515803.1	scaffold287	19565	TT	GG	GG	URR	101505749	Unknown function
SNP_68442_A_19571	NW_004515803.1	scaffold287	19571	AA	CC	CC	URR	101505749	Unknown function
SNP_68443_A_21495	NW_004515803.1	scaffold287	21495	CC	GG	GG	DRR	101506068	uncharacterized LOC101506068
SNP_68444_A_22251	NW_004515803.1	scaffold287	22251	TT	GG	GG	DRR	101508315	uncharacterized LOC101508315

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68445_A_22419	NW_004515803.1	scaffold287	22419	CC	TT	TT	DRR	101508315	uncharacterized LOC101508315
SNP_68446_A_22669	NW_004515803.1	scaffold287	22669	TT	CC	CC	DRR	101508315	uncharacterized LOC101508315
SNP_68447_A_22725	NW_004515803.1	scaffold287	22725	AA	GG	GG	URR	101506068	uncharacterized LOC101506068
SNP_68448_A_22732	NW_004515803.1	scaffold287	22732	GG	AA	AA	URR	101506068	uncharacterized LOC101506068
SNP_68449_A_22752	NW_004515803.1	scaffold287	22752	AA	GG	GG	URR	101506068	uncharacterized LOC101506068
SNP_68450_A_22971	NW_004515803.1	scaffold287	22971	GG	TT	TT	URR	101506068	uncharacterized LOC101506068
SNP_68451_A_26693	NW_004515803.1	scaffold287	26693	TT	GG	GG	URR	101506384	uncharacterized LOC101506384
SNP_68452_A_27171	NW_004515803.1	scaffold287	27171	TT	CC	CC	URR	101506384	uncharacterized LOC101506384
SNP_68453_A_27201	NW_004515803.1	scaffold287	27201	CC	TT	TT	URR	101506384	uncharacterized LOC101506384
SNP_68454_A_27552	NW_004515803.1	scaffold287	27552	AA	GG	GG	URR	101506384	uncharacterized LOC101506384
SNP_68455_A_27568	NW_004515803.1	scaffold287	27568	GG	TT	TT	URR	101506384	uncharacterized LOC101506384
SNP_68456_A_27618	NW_004515803.1	scaffold287	27618	AA	TT	TT	URR	101506384	uncharacterized LOC101506384
SNP_68457_A_83646	NW_004515803.1	scaffold287	83646	GG	AA	AA	INTERGENIC		
SNP_68458_A_84824	NW_004515803.1	scaffold287	84824	CC	GG	GG	INTERGENIC		
SNP_68459_A_84835	NW_004515803.1	scaffold287	84835	TT	CC	CC	INTERGENIC		
SNP_68460_A_84838	NW_004515803.1	scaffold287	84838	AA	TT	TT	INTERGENIC		
SNP_68461_A_137477	NW_004515803.1	scaffold287	137477	TT	AA	AA	INTERGENIC		
SNP_68462_A_137484	NW_004515803.1	scaffold287	137484	GG	TT	TT	INTERGENIC		
SNP_68463_A_170444	NW_004515803.1	scaffold287	170444	GG	TT	TT	INTERGENIC		
SNP_68464_A_170746	NW_004515803.1	scaffold287	170746	TT	GG	GG	INTERGENIC		
SNP_68465_A_170758	NW_004515803.1	scaffold287	170758	TT	AA	AA	INTERGENIC		
SNP_68466_A_170765	NW_004515803.1	scaffold287	170765	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68467_A_170812	NW_004515803.1	scaffold287	170812	CC	TT	TT	INTERGENIC		
SNP_68468_A_170828	NW_004515803.1	scaffold287	170828	AA	CC	CC	INTERGENIC		
SNP_68471_A_186470	NW_004515803.1	scaffold287	186470	CC	TT	TT	INTERGENIC		
SNP_68472_A_221886	NW_004515803.1	scaffold287	221886	TT	GG	GG	INTRON	101507048	probable serine/threonine-protein kinase WNK6
SNP_68473_A_244961	NW_004515803.1	scaffold287	244961	AA	CC	CC	INTERGENIC		
SNP_68474_A_258975	NW_004515803.1	scaffold287	258975	AA	GG	GG	INTERGENIC		
SNP_68475_A_274030	NW_004515803.1	scaffold287	274030	AA	GG	GG	INTERGENIC		
SNP_68476_A_317075	NW_004515803.1	scaffold287	317075	TT	GG	GG	INTERGENIC		
SNP_68477_A_351842	NW_004515803.1	scaffold287	351842	AA	GG	GG	INTERGENIC		
SNP_68478_A_4403	NW_004515805.1	scaffold290	4403	TT	GG	GG	INTERGENIC		
SNP_68479_A_12634	NW_004515805.1	scaffold290	12634	CC	TT	TT	INTERGENIC		
SNP_68480_A_13823	NW_004515805.1	scaffold290	13823	TT	AA	AA	INTERGENIC		
SNP_68481_A_13831	NW_004515805.1	scaffold290	13831	AA	TT	TT	INTERGENIC		
SNP_68483_A_14075	NW_004515805.1	scaffold290	14075	CC	AA	AA	INTERGENIC		
SNP_68484_A_14110	NW_004515805.1	scaffold290	14110	CC	AA	AA	INTERGENIC		
SNP_68485_A_33731	NW_004515805.1	scaffold290	33731	CC	AA	AA	INTERGENIC		
SNP_68486_A_35332	NW_004515805.1	scaffold290	35332	CC	TT	TT	DRR	101514230	Unknown function
SNP_68487_A_35548	NW_004515805.1	scaffold290	35548	CC	TT	TT	DRR	101514230	Unknown function
SNP_68488_A_41203	NW_004515805.1	scaffold290	41203	AA	TT	TT	INTRON	101514544	uncharacterized LOC101514544
SNP_68489_A_44835	NW_004515805.1	scaffold290	44835	AA	CC	CC	INTRON	101514544	uncharacterized LOC101514544
SNP_68490_A_44836	NW_004515805.1	scaffold290	44836	TT	AA	AA	INTRON	101514544	uncharacterized LOC101514544
SNP_68491_A_46892	NW_004515805.1	scaffold290	46892	TT	CC	CC	INTRON	101514544	uncharacterized LOC101514544

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68492_A_51496	NW_004515805.1	scaffold290	51496	AA	GG	GG	INTRON	101514544	uncharacterized LOC101514544
SNP_68493_A_55424	NW_004515805.1	scaffold290	55424	GG	AA	AA	URR	101514544	uncharacterized LOC101514544
SNP_68494_A_69107	NW_004515805.1	scaffold290	69107	GG	AA	AA	INTERGENIC		
SNP_68495_A_75237	NW_004515805.1	scaffold290	75237	CC	TT	TT	DRR	101510562	uncharacterized LOC101510562
SNP_68496_A_78180	NW_004515805.1	scaffold290	78180	TT	AA	AA	INTERGENIC		
SNP_68497_A_78181	NW_004515805.1	scaffold290	78181	TT	GG	GG	INTERGENIC		
SNP_68498_A_90394	NW_004515805.1	scaffold290	90394	TT	CC	CC	INTERGENIC		
SNP_68499_A_96681	NW_004515805.1	scaffold290	96681	GG	AA	AA	URR	101511201	protein N-terminal glutamine amidohydrolase
SNP_68500_A_110441	NW_004515805.1	scaffold290	110441	TT	CC	CC	INTRON	101511523	gibberellin-regulated protein 14-like
SNP_68502_A_115518	NW_004515805.1	scaffold290	115518	AA	GG	GG	INTERGENIC		
SNP_68503_A_117115	NW_004515805.1	scaffold290	117115	CC	TT	TT	INTERGENIC		
SNP_68504_A_122795	NW_004515805.1	scaffold290	122795	TT	AA	AA	INTERGENIC		
SNP_68507_A_135327	NW_004515805.1	scaffold290	135327	AA	TT	TT	INTERGENIC		
SNP_68508_A_138431	NW_004515805.1	scaffold290	138431	AA	TT	TT	INTERGENIC		
SNP_68509_A_141516	NW_004515805.1	scaffold290	141516	AA	TT	TT	INTERGENIC		
SNP_68510_A_141517	NW_004515805.1	scaffold290	141517	AA	TT	TT	INTERGENIC		
SNP_68511_A_142739	NW_004515805.1	scaffold290	142739	CC	TT	TT	INTERGENIC		
SNP_68512_A_145002	NW_004515805.1	scaffold290	145002	TT	CC	CC	INTERGENIC		
SNP_68513_A_146483	NW_004515805.1	scaffold290	146483	CC	TT	TT	INTERGENIC		
SNP_68514_A_146502	NW_004515805.1	scaffold290	146502	TT	AA	AA	INTERGENIC		
SNP_68515_A_146871	NW_004515805.1	scaffold290	146871	TT	CC	CC	INTERGENIC		
SNP_68516_A_146899	NW_004515805.1	scaffold290	146899	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68517_A_150485	NW_004515805.1	scaffold290	150485	TT	CC	CC	INTERGENIC		
SNP_68518_A_150599	NW_004515805.1	scaffold290	150599	TT	CC	CC	INTERGENIC		
SNP_68519_A_153693	NW_004515805.1	scaffold290	153693	TT	GG	GG	INTERGENIC		
SNP_68520_A_154099	NW_004515805.1	scaffold290	154099	GG	AA	AA	INTERGENIC		
SNP_68521_A_158832	NW_004515805.1	scaffold290	158832	GG	AA	AA	INTERGENIC		
SNP_68522_A_161641	NW_004515805.1	scaffold290	161641	CC	TT	TT	INTERGENIC		
SNP_68523_A_170933	NW_004515805.1	scaffold290	170933	TT	GG	GG	INTERGENIC		
SNP_68524_A_171723	NW_004515805.1	scaffold290	171723	GG	AA	AA	INTERGENIC		
SNP_68525_A_174311	NW_004515805.1	scaffold290	174311	TT	CC	CC	INTERGENIC		
SNP_68527_A_184849	NW_004515805.1	scaffold290	184849	AA	GG	GG	INTERGENIC		
SNP_68529_A_191007	NW_004515805.1	scaffold290	191007	TT	CC	CC	INTERGENIC		
SNP_68530_A_200929	NW_004515805.1	scaffold290	200929	TT	CC	CC	NON_SYNONYMOUS_CODING	101515198	Unknown function
SNP_68531_A_201344	NW_004515805.1	scaffold290	201344	TT	AA	AA	INTRON	101515198	Unknown function
SNP_68534_A_208458	NW_004515805.1	scaffold290	208458	AA	GG	GG	INTERGENIC		
SNP_68535_A_209395	NW_004515805.1	scaffold290	209395	GG	AA	AA	INTERGENIC		
SNP_68536_A_210823	NW_004515805.1	scaffold290	210823	GG	TT	TT	INTERGENIC		
SNP_68537_A_215841	NW_004515805.1	scaffold290	215841	TT	CC	CC	INTERGENIC		
SNP_68540_A_250467	NW_004515805.1	scaffold290	250467	CC	TT	TT	INTRON	101512162	villin-3-like
SNP_68541_A_250847	NW_004515805.1	scaffold290	250847	TT	CC	CC	INTRON	101512162	villin-3-like
SNP_68542_A_250893	NW_004515805.1	scaffold290	250893	CC	TT	TT	INTRON	101512162	villin-3-like
SNP_68543_A_250951	NW_004515805.1	scaffold290	250951	TT	CC	CC	INTRON	101512162	villin-3-like
SNP_68544_A_251390	NW_004515805.1	scaffold290	251390	GG	AA	AA	INTRON	101512162	villin-3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68545_A_251400	NW_004515805.1	scaffold290	251400	GG	AA	AA	INTRON	101512162	villin-3-like
SNP_68546_A_251415	NW_004515805.1	scaffold290	251415	AA	GG	GG	INTRON	101512162	villin-3-like
SNP_68547_A_251988	NW_004515805.1	scaffold290	251988	AA	CC	CC	INTRON	101512162	villin-3-like
SNP_68548_A_252002	NW_004515805.1	scaffold290	252002	CC	GG	GG	INTRON	101512162	villin-3-like
SNP_68549_A_252005	NW_004515805.1	scaffold290	252005	TT	CC	CC	INTRON	101512162	villin-3-like
SNP_68550_A_252152	NW_004515805.1	scaffold290	252152	TT	CC	CC	INTRON	101512162	villin-3-like
SNP_68551_A_252196	NW_004515805.1	scaffold290	252196	AA	GG	GG	INTRON	101512162	villin-3-like
SNP_68552_A_252204	NW_004515805.1	scaffold290	252204	TT	CC	CC	INTRON	101512162	villin-3-like
SNP_68553_A_252509	NW_004515805.1	scaffold290	252509	CC	TT	TT	INTRON	101512162	villin-3-like
SNP_68554_A_252529	NW_004515805.1	scaffold290	252529	CC	GG	GG	INTRON	101512162	villin-3-like
SNP_68555_A_252965	NW_004515805.1	scaffold290	252965	CC	TT	TT	INTRON	101512162	villin-3-like
SNP_68556_A_252979	NW_004515805.1	scaffold290	252979	GG	TT	TT	INTRON	101512162	villin-3-like
SNP_68557_A_271108	NW_004515805.1	scaffold290	271108	TT	CC	CC	INTERGENIC		
SNP_68558_A_272212	NW_004515805.1	scaffold290	272212	AA	TT	TT	INTERGENIC		
SNP_68559_A_272893	NW_004515805.1	scaffold290	272893	CC	GG	GG	INTERGENIC		
SNP_68560_A_274663	NW_004515805.1	scaffold290	274663	CC	AA	AA	INTERGENIC		
SNP_68561_A_275648	NW_004515805.1	scaffold290	275648	TT	CC	CC	INTERGENIC		
SNP_68563_A_283502	NW_004515805.1	scaffold290	283502	CC	TT	TT	INTERGENIC		
SNP_68566_A_294422	NW_004515805.1	scaffold290	294422	TT	AA	AA	INTERGENIC		
SNP_68568_A_302066	NW_004515805.1	scaffold290	302066	TT	CC	CC	INTERGENIC		
SNP_68569_A_306189	NW_004515805.1	scaffold290	306189	GG	TT	TT	INTERGENIC		
SNP_68570_A_309152	NW_004515805.1	scaffold290	309152	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68571_A_312144	NW_004515805.1	scaffold290	312144	GG	AA	AA	INTERGENIC		
SNP_68572_A_312357	NW_004515805.1	scaffold290	312357	GG	AA	AA	INTERGENIC		
SNP_68573_A_312376	NW_004515805.1	scaffold290	312376	CC	TT	TT	INTERGENIC		
SNP_68574_A_317174	NW_004515805.1	scaffold290	317174	CC	GG	GG	INTERGENIC		
SNP_68575_A_336191	NW_004515805.1	scaffold290	336191	TT	CC	CC	NON_SYNONYMOUS_CODING	101488599	Unknown function
SNP_68576_A_337017	NW_004515805.1	scaffold290	337017	CC	TT	TT	URR	101488599	Unknown function
SNP_68577_A_339888	NW_004515805.1	scaffold290	339888	CC	GG	GG	INTERGENIC		
SNP_68578_A_341583	NW_004515805.1	scaffold290	341583	GG	AA	AA	INTERGENIC		
SNP_68579_A_341602	NW_004515805.1	scaffold290	341602	TT	CC	CC	INTERGENIC		
SNP_68580_A_348919	NW_004515805.1	scaffold290	348919	TT	GG	GG	INTERGENIC		
SNP_68581_A_361613	NW_004515805.1	scaffold290	361613	GG	AA	AA	INTERGENIC		
SNP_68582_A_372766	NW_004515805.1	scaffold290	372766	AA	CC	CC	INTERGENIC		
SNP_68583_A_373123	NW_004515805.1	scaffold290	373123	AA	GG	GG	INTERGENIC		
SNP_68584_A_373177	NW_004515805.1	scaffold290	373177	GG	AA	AA	INTERGENIC		
SNP_68586_A_377932	NW_004515805.1	scaffold290	377932	GG	TT	TT	INTERGENIC		
SNP_68587_A_380741	NW_004515805.1	scaffold290	380741	AA	GG	GG	INTERGENIC		
SNP_68588_A_380932	NW_004515805.1	scaffold290	380932	CC	TT	TT	INTERGENIC		
SNP_68589_A_381433	NW_004515805.1	scaffold290	381433	TT	CC	CC	INTERGENIC		
SNP_68590_A_391167	NW_004515805.1	scaffold290	391167	GG	TT	TT	INTERGENIC		
SNP_68591_A_392525	NW_004515805.1	scaffold290	392525	AA	GG	GG	INTERGENIC		
SNP_68592_A_393299	NW_004515805.1	scaffold290	393299	TT	CC	CC	INTERGENIC		
SNP_68593_A_397822	NW_004515805.1	scaffold290	397822	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68594_A_398369	NW_004515805.1	scaffold290	398369	CC	TT	TT	INTERGENIC		
SNP_68596_A_398570	NW_004515805.1	scaffold290	398570	AA	GG	GG	INTERGENIC		
SNP_68598_A_400935	NW_004515805.1	scaffold290	400935	AA	TT	TT	INTERGENIC		
SNP_68599_A_407155	NW_004515805.1	scaffold290	407155	CC	TT	TT	INTERGENIC		
SNP_68600_A_416569	NW_004515805.1	scaffold290	416569	CC	TT	TT	INTERGENIC		
SNP_68602_A_422895	NW_004515805.1	scaffold290	422895	TT	CC	CC	INTERGENIC		
SNP_68604_A_433256	NW_004515805.1	scaffold290	433256	GG	AA	AA	SYNONYMOUS_CODING	101489273	uncharacterized LOC101489273
SNP_68605_A_433957	NW_004515805.1	scaffold290	433957	TT	GG	GG	URR	101489273	uncharacterized LOC101489273
SNP_68609_A_453572	NW_004515805.1	scaffold290	453572	GG	AA	AA	INTERGENIC		
SNP_68610_A_459188	NW_004515805.1	scaffold290	459188	GG	AA	AA	DRR	101489917	uncharacterized LOC101489917
SNP_68611_A_467677	NW_004515805.1	scaffold290	467677	GG	AA	AA	URR	101512490	tyrosine-tRNA ligase, cytoplasmic
SNP_68612_A_473948	NW_004515805.1	scaffold290	473948	CC	TT	TT	DRR	101490251	histone acetyltransferase of the MYST family 1-like
SNP_68613_A_489457	NW_004515805.1	scaffold290	489457	TT	AA	AA	INTERGENIC		
SNP_68614_A_489997	NW_004515805.1	scaffold290	489997	AA	GG	GG	INTERGENIC		
SNP_68615_A_495202	NW_004515805.1	scaffold290	495202	CC	TT	TT	URR	101490570	Unknown function
SNP_68616_A_499851	NW_004515805.1	scaffold290	499851	GG	AA	AA	INTERGENIC		
SNP_68617_A_499954	NW_004515805.1	scaffold290	499954	CC	TT	TT	INTERGENIC		
SNP_68618_A_500017	NW_004515805.1	scaffold290	500017	AA	GG	GG	INTERGENIC		
SNP_68619_A_500031	NW_004515805.1	scaffold290	500031	CC	TT	TT	INTERGENIC		
SNP_68620_A_500066	NW_004515805.1	scaffold290	500066	AA	GG	GG	INTERGENIC		
SNP_68621_A_500068	NW_004515805.1	scaffold290	500068	AA	GG	GG	INTERGENIC		
SNP_68622_A_500078	NW_004515805.1	scaffold290	500078	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68623_A_500380	NW_004515805.1	scaffold290	500380	TT	CC	CC	INTERGENIC			
SNP_68624_A_500438	NW_004515805.1	scaffold290	500438	TT	CC	CC	INTERGENIC			
SNP_68625_A_500449	NW_004515805.1	scaffold290	500449	AA	GG	GG	INTERGENIC			
SNP_68626_A_500468	NW_004515805.1	scaffold290	500468	AA	TT	TT	INTERGENIC			
SNP_68627_A_500472	NW_004515805.1	scaffold290	500472	TT	AA	AA	INTERGENIC			
SNP_68628_A_504840	NW_004515805.1	scaffold290	504840	TT	CC	CC	INTERGENIC			
SNP_68629_A_506207	NW_004515805.1	scaffold290	506207	CC	AA	AA	INTERGENIC			
SNP_68630_A_511444	NW_004515805.1	scaffold290	511444	TT	CC	CC	INTERGENIC			
SNP_68631_A_512684	NW_004515805.1	scaffold290	512684	CC	TT	TT	INTERGENIC			
SNP_68632_A_512708	NW_004515805.1	scaffold290	512708	GG	TT	TT	INTERGENIC			
SNP_68633_A_512718	NW_004515805.1	scaffold290	512718	GG	AA	AA	INTERGENIC			
SNP_68634_A_514697	NW_004515805.1	scaffold290	514697	AA	GG	GG	INTERGENIC			
SNP_68636_A_544450	NW_004515805.1	scaffold290	544450	TT	CC	CC	INTERGENIC			
SNP_68637_A_544517	NW_004515805.1	scaffold290	544517	TT	CC	CC	INTERGENIC			
SNP_68638_A_544533	NW_004515805.1	scaffold290	544533	CC	AA	AA	INTERGENIC			
SNP_68639_A_544623	NW_004515805.1	scaffold290	544623	AA	GG	GG	INTERGENIC			
SNP_68640_A_544653	NW_004515805.1	scaffold290	544653	AA	GG	GG	INTERGENIC			
SNP_68642_A_544858	NW_004515805.1	scaffold290	544858	GG	AA	AA	INTERGENIC			
SNP_68643_A_550663	NW_004515805.1	scaffold290	550663	CC	GG	GG	INTERGENIC			
SNP_68644_A_551953	NW_004515805.1	scaffold290	551953	TT	AA	AA	INTERGENIC			
SNP_68645_A_561500	NW_004515805.1	scaffold290	561500	TT	CC	CC	INTERGENIC			
SNP_68646_A_561511	NW_004515805.1	scaffold290	561511	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68647_A_561594	NW_004515805.1	scaffold290	561594	GG	AA	AA	INTERGENIC			
SNP_68648_A_561843	NW_004515805.1	scaffold290	561843	GG	AA	AA	INTERGENIC			
SNP_68650_A_571682	NW_004515805.1	scaffold290	571682	CC	AA	AA	INTERGENIC			
SNP_68651_A_571699	NW_004515805.1	scaffold290	571699	AA	GG	GG	INTERGENIC			
SNP_68652_A_571709	NW_004515805.1	scaffold290	571709	AA	GG	GG	INTERGENIC			
SNP_68653_A_571717	NW_004515805.1	scaffold290	571717	TT	CC	CC	INTERGENIC			
SNP_68654_A_572089	NW_004515805.1	scaffold290	572089	CC	TT	TT	INTERGENIC			
SNP_68655_A_572090	NW_004515805.1	scaffold290	572090	AA	CC	CC	INTERGENIC			
SNP_68656_A_572091	NW_004515805.1	scaffold290	572091	AA	GG	GG	INTERGENIC			
SNP_68657_A_572100	NW_004515805.1	scaffold290	572100	TT	CC	CC	INTERGENIC			
SNP_68658_A_572129	NW_004515805.1	scaffold290	572129	TT	AA	AA	INTERGENIC			
SNP_68659_A_572231	NW_004515805.1	scaffold290	572231	TT	CC	CC	INTERGENIC			
SNP_68660_A_572249	NW_004515805.1	scaffold290	572249	AA	GG	GG	INTERGENIC			
SNP_68661_A_572275	NW_004515805.1	scaffold290	572275	AA	TT	TT	INTERGENIC			
SNP_68662_A_572325	NW_004515805.1	scaffold290	572325	AA	TT	TT	INTERGENIC			
SNP_68663_A_572611	NW_004515805.1	scaffold290	572611	AA	GG	GG	INTERGENIC			
SNP_68665_A_579150	NW_004515805.1	scaffold290	579150	GG	AA	AA	INTERGENIC			
SNP_68666_A_587632	NW_004515805.1	scaffold290	587632	TT	GG	GG	INTERGENIC			
SNP_68667_A_590167	NW_004515805.1	scaffold290	590167	TT	AA	AA	INTERGENIC			
SNP_68668_A_590897	NW_004515805.1	scaffold290	590897	CC	TT	TT	INTERGENIC			
SNP_68670_A_605107	NW_004515805.1	scaffold290	605107	AA	CC	CC	INTERGENIC			
SNP_68672_A_605959	NW_004515805.1	scaffold290	605959	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68673_A_613664	NW_004515805.1	scaffold290	613664	TT	CC	CC	INTERGENIC		
SNP_68674_A_615997	NW_004515805.1	scaffold290	615997	TT	GG	GG	URR	101492510	Unknown function
SNP_68675_A_617460	NW_004515805.1	scaffold290	617460	AA	CC	CC	URR	101492510	Unknown function
SNP_68676_A_618416	NW_004515805.1	scaffold290	618416	CC	TT	TT	INTERGENIC		
SNP_68677_A_618462	NW_004515805.1	scaffold290	618462	CC	GG	GG	INTERGENIC		
SNP_68679_A_630775	NW_004515805.1	scaffold290	630775	CC	TT	TT	INTRON	101513349	NADPH-dependent thioredoxin reductase 3
SNP_68680_A_636449	NW_004515805.1	scaffold290	636449	CC	AA	AA	URR	101513349	NADPH-dependent thioredoxin reductase 3
SNP_68681_A_637146	NW_004515805.1	scaffold290	637146	AA	GG	GG	URR	101513349	NADPH-dependent thioredoxin reductase 3
SNP_68682_A_639210	NW_004515805.1	scaffold290	639210	CC	TT	TT	INTERGENIC		
SNP_68683_A_640921	NW_004515805.1	scaffold290	640921	TT	AA	AA	INTERGENIC		
SNP_68684_A_641104	NW_004515805.1	scaffold290	641104	CC	TT	TT	INTERGENIC		
SNP_68685_A_643395	NW_004515805.1	scaffold290	643395	GG	AA	AA	INTERGENIC		
SNP_68686_A_649328	NW_004515805.1	scaffold290	649328	TT	AA	AA	INTERGENIC		
SNP_68687_A_660228	NW_004515805.1	scaffold290	660228	AA	GG	GG	INTERGENIC		
SNP_68688_A_664622	NW_004515805.1	scaffold290	664622	AA	GG	GG	INTERGENIC		
SNP_68689_A_670140	NW_004515805.1	scaffold290	670140	CC	TT	TT	INTERGENIC		
SNP_68690_A_670900	NW_004515805.1	scaffold290	670900	AA	GG	GG	INTERGENIC		
SNP_68691_A_673427	NW_004515805.1	scaffold290	673427	CC	TT	TT	INTERGENIC		
SNP_68692_A_674377	NW_004515805.1	scaffold290	674377	CC	TT	TT	INTERGENIC		
SNP_68694_A_675012	NW_004515805.1	scaffold290	675012	GG	AA	AA	INTERGENIC		
SNP_68695_A_680335	NW_004515805.1	scaffold290	680335	AA	GG	GG	INTERGENIC		
SNP_68696_A_690991	NW_004515805.1	scaffold290	690991	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68697_A_691771	NW_004515805.1	scaffold290	691771	AA	GG	GG	INTERGENIC		
SNP_68698_A_691823	NW_004515805.1	scaffold290	691823	GG	TT	TT	INTERGENIC		
SNP_68699_A_698995	NW_004515805.1	scaffold290	698995	GG	TT	TT	INTERGENIC		
SNP_68700_A_702592	NW_004515805.1	scaffold290	702592	TT	CC	CC	INTERGENIC		
SNP_68701_A_709724	NW_004515805.1	scaffold290	709724	CC	GG	GG	INTERGENIC		
SNP_68702_A_711136	NW_004515805.1	scaffold290	711136	TT	GG	GG	INTERGENIC		
SNP_68705_A_721106	NW_004515805.1	scaffold290	721106	GG	CC	CC	INTERGENIC		
SNP_68706_A_729372	NW_004515805.1	scaffold290	729372	TT	CC	CC	URR	101513671	uncharacterized LOC101513671
SNP_68707_A_729551	NW_004515805.1	scaffold290	729551	TT	CC	CC	URR	101513671	uncharacterized LOC101513671
SNP_68708_A_752342	NW_004515805.1	scaffold290	752342	GG	AA	AA	INTERGENIC		
SNP_68709_A_753260	NW_004515805.1	scaffold290	753260	CC	TT	TT	INTERGENIC		
SNP_68710_A_755526	NW_004515805.1	scaffold290	755526	AA	CC	CC	INTERGENIC		
SNP_68711_A_757675	NW_004515805.1	scaffold290	757675	CC	TT	TT	INTERGENIC		
SNP_68712_A_762663	NW_004515805.1	scaffold290	762663	AA	TT	TT	INTERGENIC		
SNP_68713_A_763745	NW_004515805.1	scaffold290	763745	AA	CC	CC	INTERGENIC		
SNP_68714_A_764044	NW_004515805.1	scaffold290	764044	TT	CC	CC	INTERGENIC		
SNP_68715_A_764095	NW_004515805.1	scaffold290	764095	CC	AA	AA	INTERGENIC		
SNP_68716_A_771814	NW_004515805.1	scaffold290	771814	GG	AA	AA	INTERGENIC		
SNP_68717_A_774404	NW_004515805.1	scaffold290	774404	CC	TT	TT	INTERGENIC		
SNP_68718_A_774437	NW_004515805.1	scaffold290	774437	GG	AA	AA	INTERGENIC		
SNP_68719_A_777912	NW_004515805.1	scaffold290	777912	TT	CC	CC	INTERGENIC		
SNP_68720_A_778414	NW_004515805.1	scaffold290	778414	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68721_A_797340	NW_004515805.1	scaffold290	797340	CC	TT	TT	INTERGENIC			
SNP_68722_A_797360	NW_004515805.1	scaffold290	797360	AA	TT	TT	INTERGENIC			
SNP_68723_A_797379	NW_004515805.1	scaffold290	797379	TT	GG	GG	INTERGENIC			
SNP_68724_A_797388	NW_004515805.1	scaffold290	797388	TT	CC	CC	INTERGENIC			
SNP_68725_A_797391	NW_004515805.1	scaffold290	797391	CC	TT	TT	INTERGENIC			
SNP_68726_A_797422	NW_004515805.1	scaffold290	797422	GG	CC	CC	INTERGENIC			
SNP_68727_A_797438	NW_004515805.1	scaffold290	797438	AA	GG	GG	INTERGENIC			
SNP_68728_A_797450	NW_004515805.1	scaffold290	797450	TT	CC	CC	INTERGENIC			
SNP_68729_A_797569	NW_004515805.1	scaffold290	797569	GG	AA	AA	INTERGENIC			
SNP_68730_A_797715	NW_004515805.1	scaffold290	797715	GG	AA	AA	INTERGENIC			
SNP_68731_A_798289	NW_004515805.1	scaffold290	798289	CC	TT	TT	INTERGENIC			
SNP_68732_A_805285	NW_004515805.1	scaffold290	805285	AA	CC	CC	INTERGENIC			
SNP_68733_A_805342	NW_004515805.1	scaffold290	805342	AA	TT	TT	INTERGENIC			
SNP_68734_A_805410	NW_004515805.1	scaffold290	805410	GG	CC	CC	INTERGENIC			
SNP_68735_A_809912	NW_004515805.1	scaffold290	809912	TT	AA	AA	INTERGENIC			
SNP_68736_A_813677	NW_004515805.1	scaffold290	813677	CC	TT	TT	INTERGENIC			
SNP_68737_A_813710	NW_004515805.1	scaffold290	813710	TT	CC	CC	INTERGENIC			
SNP_68738_A_813722	NW_004515805.1	scaffold290	813722	TT	CC	CC	INTERGENIC			
SNP_68739_A_813749	NW_004515805.1	scaffold290	813749	AA	GG	GG	INTERGENIC			
SNP_68740_A_813788	NW_004515805.1	scaffold290	813788	TT	GG	GG	INTERGENIC			
SNP_68741_A_813837	NW_004515805.1	scaffold290	813837	AA	GG	GG	INTERGENIC			
SNP_68742_A_813851	NW_004515805.1	scaffold290	813851	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68743_A_814602	NW_004515805.1	scaffold290	814602	GG	CC	CC	INTERGENIC			
SNP_68744_A_817702	NW_004515805.1	scaffold290	817702	TT	GG	GG	INTERGENIC			
SNP_68745_A_818291	NW_004515805.1	scaffold290	818291	AA	CC	CC	INTERGENIC			
SNP_68747_A_820404	NW_004515805.1	scaffold290	820404	TT	CC	CC	INTERGENIC			
SNP_68748_A_825515	NW_004515805.1	scaffold290	825515	AA	TT	TT	INTERGENIC			
SNP_68749_A_829363	NW_004515805.1	scaffold290	829363	TT	GG	GG	INTERGENIC			
SNP_68750_A_844964	NW_004515805.1	scaffold290	844964	AA	GG	GG	INTERGENIC			
SNP_68751_A_845269	NW_004515805.1	scaffold290	845269	GG	AA	AA	INTERGENIC			
SNP_68752_A_848988	NW_004515805.1	scaffold290	848988	TT	GG	GG	INTERGENIC			
SNP_68753_A_849249	NW_004515805.1	scaffold290	849249	CC	TT	TT	INTERGENIC			
SNP_68755_A_867755	NW_004515805.1	scaffold290	867755	AA	CC	CC	INTERGENIC			
SNP_68756_A_868394	NW_004515805.1	scaffold290	868394	GG	AA	AA	INTERGENIC			
SNP_68758_A_878935	NW_004515805.1	scaffold290	878935	AA	TT	TT	INTERGENIC			
SNP_68760_A_879617	NW_004515805.1	scaffold290	879617	AA	TT	TT	INTERGENIC			
SNP_68761_A_892462	NW_004515805.1	scaffold290	892462	TT	GG	GG	INTERGENIC			
SNP_68762_A_899671	NW_004515805.1	scaffold290	899671	TT	GG	GG	INTERGENIC			
SNP_68763_A_900458	NW_004515805.1	scaffold290	900458	CC	TT	TT	INTERGENIC			
SNP_68764_A_910032	NW_004515805.1	scaffold290	910032	GG	AA	AA	INTERGENIC			
SNP_68765_A_2156	NW_004515806.1	scaffold292	2156	GG	CC	CC	INTERGENIC			
SNP_68766_A_5219	NW_004515806.1	scaffold292	5219	AA	GG	GG	INTERGENIC			
SNP_68767_A_5242	NW_004515806.1	scaffold292	5242	AA	CC	CC	INTERGENIC			
SNP_68768_A_5316	NW_004515806.1	scaffold292	5316	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68769_A_5498	NW_004515806.1	scaffold292	5498	AA	CC	CC	INTERGENIC			
SNP_68770_A_6060	NW_004515807.1	scaffold293	6060	AA	GG	GG	INTERGENIC			
SNP_68771_A_6455	NW_004515807.1	scaffold293	6455	CC	TT	TT	INTERGENIC			
SNP_68772_A_11518	NW_004515807.1	scaffold293	11518	TT	AA	AA	INTERGENIC			
SNP_68773_A_12976	NW_004515807.1	scaffold293	12976	GG	AA	AA	INTERGENIC			
SNP_68774_A_12983	NW_004515807.1	scaffold293	12983	TT	AA	AA	INTERGENIC			
SNP_68775_A_12997	NW_004515807.1	scaffold293	12997	TT	CC	CC	INTERGENIC			
SNP_68776_A_13006	NW_004515807.1	scaffold293	13006	TT	CC	CC	INTERGENIC			
SNP_68777_A_13015	NW_004515807.1	scaffold293	13015	CC	GG	GG	INTERGENIC			
SNP_68778_A_19964	NW_004515807.1	scaffold293	19964	AA	TT	TT	INTERGENIC			
SNP_68779_A_19977	NW_004515807.1	scaffold293	19977	AA	CC	CC	INTERGENIC			
SNP_68780_A_23867	NW_004515807.1	scaffold293	23867	CC	AA	AA	INTERGENIC			
SNP_68781_A_30190	NW_004515807.1	scaffold293	30190	TT	GG	GG	INTERGENIC			
SNP_68782_A_30222	NW_004515807.1	scaffold293	30222	TT	CC	CC	INTERGENIC			
SNP_68783_A_30395	NW_004515807.1	scaffold293	30395	AA	GG	GG	INTERGENIC			
SNP_68784_A_30428	NW_004515807.1	scaffold293	30428	AA	GG	GG	INTERGENIC			
SNP_68785_A_30431	NW_004515807.1	scaffold293	30431	CC	TT	TT	INTERGENIC			
SNP_68787_A_30457	NW_004515807.1	scaffold293	30457	TT	CC	CC	INTERGENIC			
SNP_68788_A_30467	NW_004515807.1	scaffold293	30467	TT	CC	CC	INTERGENIC			
SNP_68789_A_33685	NW_004515807.1	scaffold293	33685	AA	GG	GG	INTERGENIC			
SNP_68790_A_35422	NW_004515807.1	scaffold293	35422	TT	AA	AA	INTERGENIC			
SNP_68791_A_363	NW_004515808.1	scaffold295	363	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68792_A_368	NW_004515808.1	scaffold295	368	TT	AA	AA	INTERGENIC			
SNP_68793_A_379	NW_004515808.1	scaffold295	379	AA	TT	TT	INTERGENIC			
SNP_68794_A_607	NW_004515808.1	scaffold295	607	GG	AA	AA	INTERGENIC			
SNP_68795_A_608	NW_004515808.1	scaffold295	608	AA	GG	GG	INTERGENIC			
SNP_68796_A_617	NW_004515808.1	scaffold295	617	TT	AA	AA	INTERGENIC			
SNP_68797_A_703	NW_004515808.1	scaffold295	703	TT	CC	CC	INTERGENIC			
SNP_68798_A_723	NW_004515808.1	scaffold295	723	TT	CC	CC	INTERGENIC			
SNP_68799_A_844	NW_004515808.1	scaffold295	844	GG	CC	CC	INTERGENIC			
SNP_68800_A_879	NW_004515808.1	scaffold295	879	TT	GG	GG	INTERGENIC			
SNP_68801_A_6449	NW_004515808.1	scaffold295	6449	TT	CC	CC	INTERGENIC			
SNP_68802_A_10167	NW_004515809.1	scaffold296	10167	CC	TT	TT	INTERGENIC			
SNP_68803_A_10422	NW_004515809.1	scaffold296	10422	CC	AA	AA	INTERGENIC			
SNP_68804_A_10592	NW_004515809.1	scaffold296	10592	GG	AA	AA	INTERGENIC			
SNP_68805_A_11152	NW_004515809.1	scaffold296	11152	GG	TT	TT	INTERGENIC			
SNP_68806_A_11193	NW_004515809.1	scaffold296	11193	GG	AA	AA	INTERGENIC			
SNP_68807_A_11296	NW_004515809.1	scaffold296	11296	CC	TT	TT	INTERGENIC			
SNP_68809_A_11376	NW_004515809.1	scaffold296	11376	CC	TT	TT	INTERGENIC			
SNP_68810_A_11586	NW_004515809.1	scaffold296	11586	GG	AA	AA	INTERGENIC			
SNP_68811_A_11829	NW_004515809.1	scaffold296	11829	CC	TT	TT	INTERGENIC			
SNP_68812_A_12012	NW_004515809.1	scaffold296	12012	TT	CC	CC	INTERGENIC			
SNP_68813_A_14275	NW_004515809.1	scaffold296	14275	TT	AA	AA	INTERGENIC			
SNP_68814_A_14473	NW_004515809.1	scaffold296	14473	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68815_A_14800	NW_004515809.1	scaffold296	14800	GG	AA	AA	INTERGENIC			
SNP_68816_A_14809	NW_004515809.1	scaffold296	14809	CC	AA	AA	INTERGENIC			
SNP_68817_A_14960	NW_004515809.1	scaffold296	14960	GG	AA	AA	INTERGENIC			
SNP_68818_A_15029	NW_004515809.1	scaffold296	15029	TT	CC	CC	INTERGENIC			
SNP_68819_A_15212	NW_004515809.1	scaffold296	15212	TT	CC	CC	INTERGENIC			
SNP_68820_A_15232	NW_004515809.1	scaffold296	15232	TT	CC	CC	INTERGENIC			
SNP_68821_A_15250	NW_004515809.1	scaffold296	15250	AA	CC	CC	INTERGENIC			
SNP_68822_A_15253	NW_004515809.1	scaffold296	15253	CC	TT	TT	INTERGENIC			
SNP_68823_A_15320	NW_004515809.1	scaffold296	15320	CC	TT	TT	INTERGENIC			
SNP_68824_A_15377	NW_004515809.1	scaffold296	15377	TT	CC	CC	INTERGENIC			
SNP_68825_A_15419	NW_004515809.1	scaffold296	15419	AA	TT	TT	INTERGENIC			
SNP_68826_A_15424	NW_004515809.1	scaffold296	15424	GG	AA	AA	INTERGENIC			
SNP_68827_A_15458	NW_004515809.1	scaffold296	15458	GG	AA	AA	INTERGENIC			
SNP_68828_A_15460	NW_004515809.1	scaffold296	15460	CC	TT	TT	INTERGENIC			
SNP_68829_A_15486	NW_004515809.1	scaffold296	15486	GG	AA	AA	INTERGENIC			
SNP_68830_A_15507	NW_004515809.1	scaffold296	15507	TT	CC	CC	INTERGENIC			
SNP_68831_A_15519	NW_004515809.1	scaffold296	15519	AA	GG	GG	INTERGENIC			
SNP_68832_A_15523	NW_004515809.1	scaffold296	15523	TT	AA	AA	INTERGENIC			
SNP_68833_A_15540	NW_004515809.1	scaffold296	15540	CC	AA	AA	INTERGENIC			
SNP_68834_A_15572	NW_004515809.1	scaffold296	15572	GG	AA	AA	INTERGENIC			
SNP_68835_A_15596	NW_004515809.1	scaffold296	15596	CC	TT	TT	INTERGENIC			
SNP_68836_A_15625	NW_004515809.1	scaffold296	15625	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68837_A_15641	NW_004515809.1	scaffold296	15641	AA	CC	CC	INTERGENIC			
SNP_68838_A_15645	NW_004515809.1	scaffold296	15645	CC	AA	AA	INTERGENIC			
SNP_68839_A_15744	NW_004515809.1	scaffold296	15744	TT	GG	GG	INTERGENIC			
SNP_68840_A_15769	NW_004515809.1	scaffold296	15769	AA	GG	GG	INTERGENIC			
SNP_68841_A_15770	NW_004515809.1	scaffold296	15770	GG	AA	AA	INTERGENIC			
SNP_68842_A_15787	NW_004515809.1	scaffold296	15787	CC	GG	GG	INTERGENIC			
SNP_68843_A_15789	NW_004515809.1	scaffold296	15789	GG	AA	AA	INTERGENIC			
SNP_68844_A_15791	NW_004515809.1	scaffold296	15791	AA	CC	CC	INTERGENIC			
SNP_68845_A_15802	NW_004515809.1	scaffold296	15802	CC	TT	TT	INTERGENIC			
SNP_68846_A_15823	NW_004515809.1	scaffold296	15823	TT	GG	GG	INTERGENIC			
SNP_68847_A_15835	NW_004515809.1	scaffold296	15835	GG	AA	AA	INTERGENIC			
SNP_68848_A_15861	NW_004515809.1	scaffold296	15861	TT	GG	GG	INTERGENIC			
SNP_68849_A_15872	NW_004515809.1	scaffold296	15872	GG	AA	AA	INTERGENIC			
SNP_68850_A_15882	NW_004515809.1	scaffold296	15882	CC	AA	AA	INTERGENIC			
SNP_68851_A_15928	NW_004515809.1	scaffold296	15928	AA	CC	CC	INTERGENIC			
SNP_68852_A_15992	NW_004515809.1	scaffold296	15992	CC	AA	AA	INTERGENIC			
SNP_68853_A_16152	NW_004515809.1	scaffold296	16152	AA	CC	CC	INTERGENIC			
SNP_68855_A_16313	NW_004515809.1	scaffold296	16313	GG	CC	CC	INTERGENIC			
SNP_68856_A_16328	NW_004515809.1	scaffold296	16328	CC	AA	AA	INTERGENIC			
SNP_68857_A_16336	NW_004515809.1	scaffold296	16336	CC	TT	TT	INTERGENIC			
SNP_68858_A_16351	NW_004515809.1	scaffold296	16351	CC	TT	TT	INTERGENIC			
SNP_68859_A_16354	NW_004515809.1	scaffold296	16354	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68860_A_16380	NW_004515809.1	scaffold296	16380	TT	GG	GG	INTERGENIC			
SNP_68861_A_16409	NW_004515809.1	scaffold296	16409	TT	CC	CC	INTERGENIC			
SNP_68862_A_16454	NW_004515809.1	scaffold296	16454	TT	CC	CC	INTERGENIC			
SNP_68863_A_16456	NW_004515809.1	scaffold296	16456	GG	AA	AA	INTERGENIC			
SNP_68864_A_16472	NW_004515809.1	scaffold296	16472	TT	GG	GG	INTERGENIC			
SNP_68865_A_16496	NW_004515809.1	scaffold296	16496	TT	CC	CC	INTERGENIC			
SNP_68866_A_16503	NW_004515809.1	scaffold296	16503	TT	AA	AA	INTERGENIC			
SNP_68867_A_16564	NW_004515809.1	scaffold296	16564	AA	GG	GG	INTERGENIC			
SNP_68868_A_16589	NW_004515809.1	scaffold296	16589	CC	TT	TT	INTERGENIC			
SNP_68869_A_16594	NW_004515809.1	scaffold296	16594	AA	GG	GG	INTERGENIC			
SNP_68870_A_16637	NW_004515809.1	scaffold296	16637	CC	TT	TT	INTERGENIC			
SNP_68871_A_16646	NW_004515809.1	scaffold296	16646	AA	GG	GG	INTERGENIC			
SNP_68872_A_16693	NW_004515809.1	scaffold296	16693	CC	TT	TT	INTERGENIC			
SNP_68873_A_16703	NW_004515809.1	scaffold296	16703	AA	GG	GG	INTERGENIC			
SNP_68874_A_16730	NW_004515809.1	scaffold296	16730	GG	TT	TT	INTERGENIC			
SNP_68875_A_16747	NW_004515809.1	scaffold296	16747	AA	CC	CC	INTERGENIC			
SNP_68876_A_16798	NW_004515809.1	scaffold296	16798	TT	CC	CC	INTERGENIC			
SNP_68877_A_16856	NW_004515809.1	scaffold296	16856	GG	AA	AA	INTERGENIC			
SNP_68878_A_16867	NW_004515809.1	scaffold296	16867	AA	TT	TT	INTERGENIC			
SNP_68879_A_16874	NW_004515809.1	scaffold296	16874	TT	CC	CC	INTERGENIC			
SNP_68880_A_16898	NW_004515809.1	scaffold296	16898	TT	CC	CC	INTERGENIC			
SNP_68881_A_16944	NW_004515809.1	scaffold296	16944	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_68883_A_78724	NW_004515809.1	scaffold296	78724	GG	AA	AA	INTERGENIC		
SNP_68884_A_78771	NW_004515809.1	scaffold296	78771	AA	GG	GG	INTERGENIC		
SNP_68885_A_78783	NW_004515809.1	scaffold296	78783	GG	TT	TT	INTERGENIC		
SNP_68886_A_78799	NW_004515809.1	scaffold296	78799	AA	GG	GG	INTERGENIC		
SNP_68887_A_78816	NW_004515809.1	scaffold296	78816	GG	AA	AA	INTERGENIC		
SNP_68888_A_78951	NW_004515809.1	scaffold296	78951	TT	GG	GG	INTERGENIC		
SNP_68889_A_78989	NW_004515809.1	scaffold296	78989	TT	CC	CC	INTERGENIC		
SNP_68890_A_79092	NW_004515809.1	scaffold296	79092	TT	GG	GG	INTERGENIC		
SNP_68891_A_79187	NW_004515809.1	scaffold296	79187	AA	GG	GG	INTERGENIC		
SNP_68893_A_94050	NW_004515809.1	scaffold296	94050	AA	GG	GG	INTERGENIC		
SNP_68894_A_107773	NW_004515809.1	scaffold296	107773	GG	CC	CC	INTERGENIC		
SNP_68895_A_119604	NW_004515809.1	scaffold296	119604	AA	GG	GG	DRR	101500189	Unknown function
SNP_68896_A_140242	NW_004515809.1	scaffold296	140242	AA	CC	CC	INTRON	101500503	probable WRKY transcription factor 31
SNP_68897_A_197310	NW_004515809.1	scaffold296	197310	GG	AA	AA	INTERGENIC		
SNP_68898_A_213669	NW_004515809.1	scaffold296	213669	AA	GG	GG	URR	101496735	uncharacterized LOC101496735
SNP_68899_A_224696	NW_004515809.1	scaffold296	224696	CC	TT	TT	INTRON	101497043	uncharacterized LOC101497043
SNP_68900_A_225117	NW_004515809.1	scaffold296	225117	CC	AA	AA	INTRON	101497043	uncharacterized LOC101497043
SNP_68901_A_225127	NW_004515809.1	scaffold296	225127	GG	AA	AA	INTRON	101497043	uncharacterized LOC101497043
SNP_68902_A_225140	NW_004515809.1	scaffold296	225140	TT	AA	AA	INTRON	101497043	uncharacterized LOC101497043
SNP_68903_A_225151	NW_004515809.1	scaffold296	225151	GG	CC	CC	INTRON	101497043	uncharacterized LOC101497043
SNP_68904_A_225152	NW_004515809.1	scaffold296	225152	AA	GG	GG	INTRON	101497043	uncharacterized LOC101497043
SNP_68906_A_258982	NW_004515809.1	scaffold296	258982	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68907_A_259037	NW_004515809.1	scaffold296	259037	GG	AA	AA	INTERGENIC			
SNP_68909_A_259058	NW_004515809.1	scaffold296	259058	TT	GG	GG	INTERGENIC			
SNP_68910_A_259141	NW_004515809.1	scaffold296	259141	TT	AA	AA	INTERGENIC			
SNP_68911_A_259200	NW_004515809.1	scaffold296	259200	AA	TT	TT	INTERGENIC			
SNP_68912_A_259221	NW_004515809.1	scaffold296	259221	AA	GG	GG	INTERGENIC			
SNP_68913_A_259230	NW_004515809.1	scaffold296	259230	AA	TT	TT	INTERGENIC			
SNP_68914_A_259231	NW_004515809.1	scaffold296	259231	AA	TT	TT	INTERGENIC			
SNP_68915_A_259241	NW_004515809.1	scaffold296	259241	AA	GG	GG	INTERGENIC			
SNP_68916_A_259247	NW_004515809.1	scaffold296	259247	CC	TT	TT	INTERGENIC			
SNP_68917_A_259341	NW_004515809.1	scaffold296	259341	GG	AA	AA	INTERGENIC			
SNP_68918_A_260876	NW_004515809.1	scaffold296	260876	TT	CC	CC	INTERGENIC			
SNP_68919_A_261194	NW_004515809.1	scaffold296	261194	AA	GG	GG	INTERGENIC			
SNP_68920_A_261254	NW_004515809.1	scaffold296	261254	AA	GG	GG	INTERGENIC			
SNP_68921_A_261259	NW_004515809.1	scaffold296	261259	TT	CC	CC	INTERGENIC			
SNP_68922_A_261290	NW_004515809.1	scaffold296	261290	TT	CC	CC	INTERGENIC			
SNP_68923_A_261347	NW_004515809.1	scaffold296	261347	AA	GG	GG	INTERGENIC			
SNP_68925_A_261476	NW_004515809.1	scaffold296	261476	CC	TT	TT	INTERGENIC			
SNP_68926_A_261535	NW_004515809.1	scaffold296	261535	TT	AA	AA	INTERGENIC			
SNP_68927_A_261545	NW_004515809.1	scaffold296	261545	AA	TT	TT	INTERGENIC			
SNP_68928_A_261546	NW_004515809.1	scaffold296	261546	AA	GG	GG	INTERGENIC			
SNP_68929_A_261564	NW_004515809.1	scaffold296	261564	TT	CC	CC	INTERGENIC			
SNP_68931_A_261701	NW_004515809.1	scaffold296	261701	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68933_A_262010	NW_004515809.1	scaffold296	262010	TT	CC	CC	INTERGENIC			
SNP_68934_A_262028	NW_004515809.1	scaffold296	262028	CC	TT	TT	INTERGENIC			
SNP_68935_A_262173	NW_004515809.1	scaffold296	262173	AA	GG	GG	INTERGENIC			
SNP_68936_A_262323	NW_004515809.1	scaffold296	262323	CC	AA	AA	INTERGENIC			
SNP_68937_A_262730	NW_004515809.1	scaffold296	262730	CC	GG	GG	INTERGENIC			
SNP_68938_A_262755	NW_004515809.1	scaffold296	262755	GG	AA	AA	INTERGENIC			
SNP_68939_A_262803	NW_004515809.1	scaffold296	262803	AA	GG	GG	INTERGENIC			
SNP_68941_A_262852	NW_004515809.1	scaffold296	262852	AA	GG	GG	INTERGENIC			
SNP_68942_A_263050	NW_004515809.1	scaffold296	263050	TT	GG	GG	INTERGENIC			
SNP_68943_A_264867	NW_004515809.1	scaffold296	264867	AA	CC	CC	INTERGENIC			
SNP_68944_A_264971	NW_004515809.1	scaffold296	264971	TT	CC	CC	INTERGENIC			
SNP_68945_A_265058	NW_004515809.1	scaffold296	265058	GG	CC	CC	INTERGENIC			
SNP_68946_A_265145	NW_004515809.1	scaffold296	265145	TT	AA	AA	INTERGENIC			
SNP_68947_A_265208	NW_004515809.1	scaffold296	265208	GG	CC	CC	INTERGENIC			
SNP_68948_A_265274	NW_004515809.1	scaffold296	265274	GG	AA	AA	INTERGENIC			
SNP_68950_A_265369	NW_004515809.1	scaffold296	265369	AA	GG	GG	INTERGENIC			
SNP_68951_A_265378	NW_004515809.1	scaffold296	265378	TT	CC	CC	INTERGENIC			
SNP_68952_A_265435	NW_004515809.1	scaffold296	265435	GG	TT	TT	INTERGENIC			
SNP_68953_A_265458	NW_004515809.1	scaffold296	265458	TT	CC	CC	INTERGENIC			
SNP_68954_A_265518	NW_004515809.1	scaffold296	265518	GG	CC	CC	INTERGENIC			
SNP_68955_A_265530	NW_004515809.1	scaffold296	265530	AA	GG	GG	INTERGENIC			
SNP_68956_A_265584	NW_004515809.1	scaffold296	265584	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68957_A_266216	NW_004515809.1	scaffold296	266216	AA	TT	TT	INTERGENIC			
SNP_68959_A_336586	NW_004515809.1	scaffold296	336586	AA	GG	GG	INTERGENIC			
SNP_68960_A_336587	NW_004515809.1	scaffold296	336587	TT	GG	GG	INTERGENIC			
SNP_68961_A_349676	NW_004515809.1	scaffold296	349676	TT	AA	AA	INTERGENIC			
SNP_68963_A_367732	NW_004515809.1	scaffold296	367732	AA	GG	GG	INTERGENIC			
SNP_68964_A_391653	NW_004515809.1	scaffold296	391653	AA	GG	GG	INTERGENIC			
SNP_68965_A_398758	NW_004515809.1	scaffold296	398758	AA	TT	TT	INTERGENIC			
SNP_68967_A_406920	NW_004515809.1	scaffold296	406920	CC	GG	GG	INTERGENIC			
SNP_68968_A_434792	NW_004515809.1	scaffold296	434792	TT	AA	AA	INTERGENIC			
SNP_68969_A_450452	NW_004515809.1	scaffold296	450452	TT	CC	CC	INTERGENIC			
SNP_68970_A_485294	NW_004515809.1	scaffold296	485294	GG	AA	AA	INTERGENIC			
SNP_68971_A_485302	NW_004515809.1	scaffold296	485302	TT	AA	AA	INTERGENIC			
SNP_68972_A_485328	NW_004515809.1	scaffold296	485328	CC	GG	GG	INTERGENIC			
SNP_68973_A_648	NW_004515810.1	scaffold298	648	AA	CC	CC	INTERGENIC			
SNP_68974_A_1493	NW_004515810.1	scaffold298	1493	AA	TT	TT	INTERGENIC			
SNP_68975_A_1575	NW_004515810.1	scaffold298	1575	AA	GG	GG	INTERGENIC			
SNP_68976_A_2106	NW_004515810.1	scaffold298	2106	TT	CC	CC	INTERGENIC			
SNP_68977_A_2223	NW_004515810.1	scaffold298	2223	TT	GG	GG	INTERGENIC			
SNP_68978_A_2594	NW_004515810.1	scaffold298	2594	AA	TT	TT	INTERGENIC			
SNP_68980_A_2686	NW_004515810.1	scaffold298	2686	TT	CC	CC	INTERGENIC			
SNP_68981_A_2712	NW_004515810.1	scaffold298	2712	CC	TT	TT	INTERGENIC			
SNP_68982_A_2807	NW_004515810.1	scaffold298	2807	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_68983_A_2808	NW_004515810.1	scaffold298	2808	TT	AA	AA	INTERGENIC			
SNP_68984_A_2917	NW_004515810.1	scaffold298	2917	TT	AA	AA	INTERGENIC			
SNP_68985_A_2937	NW_004515810.1	scaffold298	2937	AA	TT	TT	INTERGENIC			
SNP_68986_A_2938	NW_004515810.1	scaffold298	2938	CC	AA	AA	INTERGENIC			
SNP_68987_A_2983	NW_004515810.1	scaffold298	2983	AA	GG	GG	INTERGENIC			
SNP_68988_A_3194	NW_004515810.1	scaffold298	3194	TT	AA	AA	INTERGENIC			
SNP_68989_A_3234	NW_004515810.1	scaffold298	3234	GG	CC	CC	INTERGENIC			
SNP_68990_A_3567	NW_004515810.1	scaffold298	3567	TT	CC	CC	INTERGENIC			
SNP_68991_A_3606	NW_004515810.1	scaffold298	3606	TT	AA	AA	INTERGENIC			
SNP_68992_A_3751	NW_004515810.1	scaffold298	3751	TT	CC	CC	INTERGENIC			
SNP_68993_A_3768	NW_004515810.1	scaffold298	3768	GG	CC	CC	INTERGENIC			
SNP_68994_A_3773	NW_004515810.1	scaffold298	3773	CC	TT	TT	INTERGENIC			
SNP_68995_A_3777	NW_004515810.1	scaffold298	3777	GG	AA	AA	INTERGENIC			
SNP_68996_A_3784	NW_004515810.1	scaffold298	3784	CC	AA	AA	INTERGENIC			
SNP_68997_A_3830	NW_004515810.1	scaffold298	3830	CC	AA	TT	INTERGENIC			
SNP_68998_A_4163	NW_004515810.1	scaffold298	4163	TT	GG	GG	INTERGENIC			
SNP_68999_A_4184	NW_004515810.1	scaffold298	4184	TT	GG	GG	INTERGENIC			
SNP_69000_A_5342	NW_004515810.1	scaffold298	5342	CC	TT	TT	INTERGENIC			
SNP_69001_A_6364	NW_004515810.1	scaffold298	6364	AA	CC	CC	DRR	101502315	uncharacterized LOC101502315	
SNP_69002_A_7940	NW_004515810.1	scaffold298	7940	AA	CC	CC	URR	101502315	uncharacterized LOC101502315	
SNP_69003_A_7987	NW_004515810.1	scaffold298	7987	AA	TT	TT	URR	101502315	uncharacterized LOC101502315	
SNP_69005_A_8261	NW_004515810.1	scaffold298	8261	TT	GG	GG	URR	101502315	uncharacterized LOC101502315	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69006_A_8429	NW_004515810.1	scaffold298	8429	AA	TT	TT	URR	101502315	uncharacterized LOC101502315
SNP_69007_A_8578	NW_004515810.1	scaffold298	8578	CC	TT	TT	URR	101502315	uncharacterized LOC101502315
SNP_69008_A_8788	NW_004515810.1	scaffold298	8788	CC	AA	AA	URR	101502315	uncharacterized LOC101502315
SNP_69009_A_9117	NW_004515810.1	scaffold298	9117	TT	CC	CC	URR	101502315	uncharacterized LOC101502315
SNP_69010_A_9494	NW_004515810.1	scaffold298	9494	AA	TT	TT	INTERGENIC		
SNP_69011_A_9709	NW_004515810.1	scaffold298	9709	TT	AA	AA	INTERGENIC		
SNP_69012_A_9748	NW_004515810.1	scaffold298	9748	TT	CC	CC	INTERGENIC		
SNP_69013_A_9802	NW_004515810.1	scaffold298	9802	TT	CC	CC	INTERGENIC		
SNP_69014_A_9816	NW_004515810.1	scaffold298	9816	AA	TT	TT	INTERGENIC		
SNP_69015_A_10034	NW_004515810.1	scaffold298	10034	TT	CC	CC	INTERGENIC		
SNP_69016_A_10039	NW_004515810.1	scaffold298	10039	TT	GG	GG	INTERGENIC		
SNP_69017_A_10174	NW_004515810.1	scaffold298	10174	TT	CC	CC	INTERGENIC		
SNP_69018_A_10414	NW_004515810.1	scaffold298	10414	GG	TT	TT	INTERGENIC		
SNP_69019_A_14212	NW_004515810.1	scaffold298	14212	CC	AA	AA	INTERGENIC		
SNP_69020_A_61723	NW_004515810.1	scaffold298	61723	GG	AA	AA	INTERGENIC		
SNP_69021_A_70942	NW_004515810.1	scaffold298	70942	TT	GG	GG	INTERGENIC		
SNP_69022_A_70974	NW_004515810.1	scaffold298	70974	CC	AA	AA	INTERGENIC		
SNP_69024_A_85626	NW_004515810.1	scaffold298	85626	CC	TT	TT	INTERGENIC		
SNP_69025_A_106497	NW_004515810.1	scaffold298	106497	TT	CC	CC	INTERGENIC		
SNP_69026_A_107194	NW_004515810.1	scaffold298	107194	CC	TT	TT	INTERGENIC		
SNP_69027_A_127098	NW_004515810.1	scaffold298	127098	AA	GG	GG	INTERGENIC		
SNP_69028_A_127141	NW_004515810.1	scaffold298	127141	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69029_A_127511	NW_004515810.1	scaffold298	127511	AA	CC	CC	INTERGENIC			
SNP_69031_A_127523	NW_004515810.1	scaffold298	127523	AA	GG	GG	INTERGENIC			
SNP_69032_A_127526	NW_004515810.1	scaffold298	127526	TT	CC	CC	INTERGENIC			
SNP_69033_A_132016	NW_004515810.1	scaffold298	132016	GG	TT	TT	INTERGENIC			
SNP_69034_A_155336	NW_004515810.1	scaffold298	155336	GG	TT	TT	INTERGENIC			
SNP_69035_A_155370	NW_004515810.1	scaffold298	155370	AA	GG	GG	INTERGENIC			
SNP_69036_A_155394	NW_004515810.1	scaffold298	155394	TT	CC	CC	INTERGENIC			
SNP_69037_A_155408	NW_004515810.1	scaffold298	155408	TT	GG	GG	INTERGENIC			
SNP_69038_A_155513	NW_004515810.1	scaffold298	155513	CC	TT	TT	INTERGENIC			
SNP_69040_A_155700	NW_004515810.1	scaffold298	155700	GG	AA	AA	INTERGENIC			
SNP_69041_A_156101	NW_004515810.1	scaffold298	156101	AA	GG	GG	INTERGENIC			
SNP_69042_A_168037	NW_004515810.1	scaffold298	168037	GG	AA	AA	INTERGENIC			
SNP_69043_A_189951	NW_004515810.1	scaffold298	189951	AA	CC	CC	INTERGENIC			
SNP_69044_A_193600	NW_004515810.1	scaffold298	193600	AA	CC	CC	INTERGENIC			
SNP_69045_A_193639	NW_004515810.1	scaffold298	193639	TT	GG	GG	INTERGENIC			
SNP_69046_A_193658	NW_004515810.1	scaffold298	193658	GG	AA	AA	INTERGENIC			
SNP_69047_A_201695	NW_004515810.1	scaffold298	201695	CC	GG	TT	INTERGENIC			
SNP_69048_A_202012	NW_004515810.1	scaffold298	202012	AA	GG	GG	INTERGENIC			
SNP_69049_A_202059	NW_004515810.1	scaffold298	202059	AA	GG	GG	INTERGENIC			
SNP_69050_A_202091	NW_004515810.1	scaffold298	202091	AA	GG	GG	INTERGENIC			
SNP_69051_A_207801	NW_004515810.1	scaffold298	207801	TT	AA	AA	INTERGENIC			
SNP_69052_A_207852	NW_004515810.1	scaffold298	207852	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69053_A_207915	NW_004515810.1	scaffold298	207915	AA	CC	CC	INTERGENIC			
SNP_69054_A_207966	NW_004515810.1	scaffold298	207966	GG	TT	TT	INTERGENIC			
SNP_69055_A_208076	NW_004515810.1	scaffold298	208076	AA	GG	GG	INTERGENIC			
SNP_69057_A_208249	NW_004515810.1	scaffold298	208249	CC	TT	TT	INTERGENIC			
SNP_69058_A_208347	NW_004515810.1	scaffold298	208347	AA	GG	GG	INTERGENIC			
SNP_69059_A_208376	NW_004515810.1	scaffold298	208376	CC	GG	GG	INTERGENIC			
SNP_69060_A_208381	NW_004515810.1	scaffold298	208381	GG	AA	AA	INTERGENIC			
SNP_69061_A_208490	NW_004515810.1	scaffold298	208490	GG	AA	AA	INTERGENIC			
SNP_69062_A_208502	NW_004515810.1	scaffold298	208502	GG	AA	AA	INTERGENIC			
SNP_69063_A_208619	NW_004515810.1	scaffold298	208619	TT	AA	AA	INTERGENIC			
SNP_69064_A_208620	NW_004515810.1	scaffold298	208620	AA	TT	TT	INTERGENIC			
SNP_69065_A_208664	NW_004515810.1	scaffold298	208664	AA	GG	GG	INTERGENIC			
SNP_69066_A_210715	NW_004515810.1	scaffold298	210715	GG	AA	AA	INTERGENIC			
SNP_69067_A_210851	NW_004515810.1	scaffold298	210851	GG	TT	TT	INTERGENIC			
SNP_69068_A_210898	NW_004515810.1	scaffold298	210898	AA	GG	GG	INTERGENIC			
SNP_69069_A_211096	NW_004515810.1	scaffold298	211096	AA	GG	GG	INTERGENIC			
SNP_69070_A_211731	NW_004515810.1	scaffold298	211731	AA	CC	CC	INTERGENIC			
SNP_69071_A_211739	NW_004515810.1	scaffold298	211739	GG	TT	TT	INTERGENIC			
SNP_69072_A_211963	NW_004515810.1	scaffold298	211963	AA	TT	TT	INTERGENIC			
SNP_69073_A_212157	NW_004515810.1	scaffold298	212157	GG	TT	TT	INTERGENIC			
SNP_69074_A_212176	NW_004515810.1	scaffold298	212176	AA	TT	TT	INTERGENIC			
SNP_69075_A_10885	NW_004515811.1	scaffold299	10885	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69076_A_10887	NW_004515811.1	scaffold299	10887	TT	GG	GG	INTERGENIC		
SNP_69077_A_10943	NW_004515811.1	scaffold299	10943	CC	TT	TT	INTERGENIC		
SNP_69078_A_10944	NW_004515811.1	scaffold299	10944	TT	AA	AA	INTERGENIC		
SNP_69079_A_10967	NW_004515811.1	scaffold299	10967	GG	AA	AA	INTERGENIC		
SNP_69080_A_10979	NW_004515811.1	scaffold299	10979	TT	CC	CC	INTERGENIC		
SNP_69081_A_10993	NW_004515811.1	scaffold299	10993	AA	TT	TT	INTERGENIC		
SNP_69082_A_10994	NW_004515811.1	scaffold299	10994	GG	AA	AA	INTERGENIC		
SNP_69083_A_11001	NW_004515811.1	scaffold299	11001	TT	GG	GG	INTERGENIC		
SNP_69085_A_36705	NW_004515811.1	scaffold299	36705	TT	CC	CC	INTERGENIC		
SNP_69086_A_52696	NW_004515811.1	scaffold299	52696	TT	GG	GG	INTERGENIC		
SNP_69087_A_52697	NW_004515811.1	scaffold299	52697	GG	AA	AA	INTERGENIC		
SNP_69089_A_135144	NW_004515811.1	scaffold299	135144	AA	CC	CC	INTRON	101503158	pescadillo homolog
SNP_69090_A_135167	NW_004515811.1	scaffold299	135167	AA	TT	TT	INTRON	101503158	pescadillo homolog
SNP_69091_A_135185	NW_004515811.1	scaffold299	135185	AA	GG	GG	INTRON	101503158	pescadillo homolog
SNP_69092_A_135189	NW_004515811.1	scaffold299	135189	TT	GG	GG	INTRON	101503158	pescadillo homolog
SNP_69093_A_135241	NW_004515811.1	scaffold299	135241	TT	AA	AA	INTRON	101503158	pescadillo homolog
SNP_69094_A_152514	NW_004515811.1	scaffold299	152514	CC	AA	AA	INTERGENIC		
SNP_69095_A_157869	NW_004515811.1	scaffold299	157869	AA	CC	CC	STOP_LOST	101504679	probable UDP-arabinopyranose mutase 5
SNP_69096_A_158540	NW_004515811.1	scaffold299	158540	AA	TT	TT	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69097_A_158625	NW_004515811.1	scaffold299	158625	AA	GG	GG	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69098_A_158654	NW_004515811.1	scaffold299	158654	AA	GG	GG	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69099_A_158693	NW_004515811.1	scaffold299	158693	TT	GG	GG	URR	101504679	probable UDP-arabinopyranose mutase 5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69100_A_158720	NW_004515811.1	scaffold299	158720	GG	AA	AA	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69101_A_158734	NW_004515811.1	scaffold299	158734	CC	TT	TT	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69102_A_158948	NW_004515811.1	scaffold299	158948	AA	GG	GG	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69103_A_158966	NW_004515811.1	scaffold299	158966	AA	CC	CC	URR	101504679	probable UDP-arabinopyranose mutase 5
SNP_69104_A_195251	NW_004515811.1	scaffold299	195251	TT	CC	CC	INTERGENIC		
SNP_69105_A_196494	NW_004515811.1	scaffold299	196494	AA	GG	GG	INTERGENIC		
SNP_69106_A_206088	NW_004515811.1	scaffold299	206088	CC	TT	TT	INTERGENIC		
SNP_69107_A_206110	NW_004515811.1	scaffold299	206110	TT	GG	GG	INTERGENIC		
SNP_69108_A_206172	NW_004515811.1	scaffold299	206172	CC	TT	TT	INTERGENIC		
SNP_69109_A_206216	NW_004515811.1	scaffold299	206216	AA	GG	GG	INTERGENIC		
SNP_69110_A_206471	NW_004515811.1	scaffold299	206471	AA	GG	GG	INTERGENIC		
SNP_69111_A_206535	NW_004515811.1	scaffold299	206535	AA	CC	GG	INTERGENIC		
SNP_69112_A_211233	NW_004515811.1	scaffold299	211233	CC	TT	TT	INTERGENIC		
SNP_69114_A_213801	NW_004515811.1	scaffold299	213801	TT	CC	CC	INTERGENIC		
SNP_69115_A_214233	NW_004515811.1	scaffold299	214233	CC	TT	TT	INTERGENIC		
SNP_69116_A_2778	NW_004515812.1	scaffold300	2778	AA	TT	TT	INTERGENIC		
SNP_69117_A_6570	NW_004515812.1	scaffold300	6570	TT	AA	AA	INTERGENIC		
SNP_69118_A_8004	NW_004515812.1	scaffold300	8004	TT	GG	GG	INTERGENIC		
SNP_69119_A_12567	NW_004515812.1	scaffold300	12567	AA	TT	TT	INTERGENIC		
SNP_69120_A_27601	NW_004515812.1	scaffold300	27601	TT	AA	AA	INTERGENIC		
SNP_69121_A_41063	NW_004515812.1	scaffold300	41063	AA	GG	GG	INTERGENIC		
SNP_69122_A_41064	NW_004515812.1	scaffold300	41064	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69123_A_41115	NW_004515812.1	scaffold300	41115	TT	AA	AA	INTERGENIC			
SNP_69124_A_45448	NW_004515812.1	scaffold300	45448	AA	GG	GG	INTERGENIC			
SNP_69125_A_45454	NW_004515812.1	scaffold300	45454	AA	TT	TT	INTERGENIC			
SNP_69126_A_45455	NW_004515812.1	scaffold300	45455	CC	TT	TT	INTERGENIC			
SNP_69127_A_45456	NW_004515812.1	scaffold300	45456	AA	GG	GG	INTERGENIC			
SNP_69128_A_45459	NW_004515812.1	scaffold300	45459	CC	AA	AA	INTERGENIC			
SNP_69129_A_74150	NW_004515812.1	scaffold300	74150	AA	GG	GG	INTERGENIC			
SNP_69130_A_74752	NW_004515812.1	scaffold300	74752	AA	CC	CC	INTERGENIC			
SNP_69131_A_84165	NW_004515812.1	scaffold300	84165	AA	CC	CC	INTERGENIC			
SNP_69132_A_89480	NW_004515812.1	scaffold300	89480	CC	AA	AA	INTERGENIC			
SNP_69133_A_101023	NW_004515812.1	scaffold300	101023	TT	CC	CC	INTERGENIC			
SNP_69134_A_101412	NW_004515812.1	scaffold300	101412	AA	CC	CC	INTERGENIC			
SNP_69135_A_101452	NW_004515812.1	scaffold300	101452	AA	GG	GG	INTERGENIC			
SNP_69136_A_101495	NW_004515812.1	scaffold300	101495	TT	GG	GG	INTERGENIC			
SNP_69137_A_1214	NW_004515813.1	scaffold301	1214	TT	GG	GG	INTERGENIC			
SNP_69138_A_1249	NW_004515813.1	scaffold301	1249	CC	AA	AA	INTERGENIC			
SNP_69139_A_5233	NW_004515814.1	scaffold303	5233	TT	CC	CC	INTERGENIC			
SNP_69140_A_9944	NW_004515814.1	scaffold303	9944	TT	GG	GG	INTERGENIC			
SNP_69142_A_30257	NW_004515814.1	scaffold303	30257	GG	TT	TT	INTERGENIC			
SNP_69143_A_85515	NW_004515814.1	scaffold303	85515	AA	GG	GG	INTERGENIC			
SNP_69144_A_120605	NW_004515814.1	scaffold303	120605	GG	TT	TT	INTERGENIC			
SNP_69145_A_120655	NW_004515814.1	scaffold303	120655	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69147_A_648	NW_004515815.1	scaffold304	648	TT	AA	AA	INTERGENIC			
SNP_69148_A_649	NW_004515815.1	scaffold304	649	AA	TT	TT	INTERGENIC			
SNP_69149_A_2305	NW_004515816.1	scaffold305	2305	AA	GG	GG	INTERGENIC			
SNP_69150_A_4100	NW_004515816.1	scaffold305	4100	CC	TT	TT	INTERGENIC			
SNP_69151_A_4106	NW_004515816.1	scaffold305	4106	CC	AA	AA	INTERGENIC			
SNP_69152_A_4122	NW_004515816.1	scaffold305	4122	CC	TT	TT	INTERGENIC			
SNP_69153_A_31578	NW_004515816.1	scaffold305	31578	GG	AA	AA	INTERGENIC			
SNP_69154_A_31733	NW_004515816.1	scaffold305	31733	TT	CC	CC	INTERGENIC			
SNP_69155_A_31771	NW_004515816.1	scaffold305	31771	TT	GG	GG	INTERGENIC			
SNP_69156_A_31781	NW_004515816.1	scaffold305	31781	TT	CC	CC	INTERGENIC			
SNP_69157_A_31927	NW_004515816.1	scaffold305	31927	CC	TT	TT	INTERGENIC			
SNP_69158_A_31948	NW_004515816.1	scaffold305	31948	AA	GG	GG	INTERGENIC			
SNP_69159_A_31958	NW_004515816.1	scaffold305	31958	CC	TT	TT	INTERGENIC			
SNP_69160_A_31994	NW_004515816.1	scaffold305	31994	GG	AA	AA	INTERGENIC			
SNP_69161_A_32054	NW_004515816.1	scaffold305	32054	CC	TT	TT	INTERGENIC			
SNP_69162_A_32110	NW_004515816.1	scaffold305	32110	TT	CC	CC	INTERGENIC			
SNP_69163_A_32112	NW_004515816.1	scaffold305	32112	TT	GG	GG	INTERGENIC			
SNP_69164_A_99787	NW_004515816.1	scaffold305	99787	GG	TT	TT	INTERGENIC			
SNP_69165_A_99805	NW_004515816.1	scaffold305	99805	GG	TT	TT	INTERGENIC			
SNP_69166_A_124800	NW_004515816.1	scaffold305	124800	CC	AA	AA	INTERGENIC			
SNP_69167_A_124816	NW_004515816.1	scaffold305	124816	TT	CC	CC	INTERGENIC			
SNP_69168_A_124848	NW_004515816.1	scaffold305	124848	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69169_A_145554	NW_004515816.1	scaffold305	145554	TT	CC	CC	INTERGENIC			
SNP_69170_A_157229	NW_004515816.1	scaffold305	157229	GG	AA	AA	INTERGENIC			
SNP_69172_A_193196	NW_004515816.1	scaffold305	193196	AA	GG	GG	INTERGENIC			
SNP_69173_A_196652	NW_004515816.1	scaffold305	196652	TT	AA	AA	INTERGENIC			
SNP_69174_A_196654	NW_004515816.1	scaffold305	196654	TT	GG	GG	INTERGENIC			
SNP_69175_A_196689	NW_004515816.1	scaffold305	196689	CC	AA	AA	INTERGENIC			
SNP_69176_A_205064	NW_004515816.1	scaffold305	205064	AA	GG	GG	INTERGENIC			
SNP_69177_A_205093	NW_004515816.1	scaffold305	205093	CC	TT	TT	INTERGENIC			
SNP_69178_A_205098	NW_004515816.1	scaffold305	205098	AA	TT	TT	INTERGENIC			
SNP_69179_A_205131	NW_004515816.1	scaffold305	205131	CC	AA	AA	INTERGENIC			
SNP_69180_A_205166	NW_004515816.1	scaffold305	205166	TT	CC	CC	INTERGENIC			
SNP_69181_A_205183	NW_004515816.1	scaffold305	205183	GG	TT	TT	INTERGENIC			
SNP_69182_A_205193	NW_004515816.1	scaffold305	205193	TT	GG	GG	INTERGENIC			
SNP_69183_A_205282	NW_004515816.1	scaffold305	205282	TT	CC	CC	INTERGENIC			
SNP_69184_A_205292	NW_004515816.1	scaffold305	205292	CC	GG	GG	INTERGENIC			
SNP_69185_A_205355	NW_004515816.1	scaffold305	205355	AA	GG	GG	INTERGENIC			
SNP_69186_A_205461	NW_004515816.1	scaffold305	205461	AA	TT	TT	INTERGENIC			
SNP_69187_A_24705	NW_004515817.1	scaffold306	24705	CC	TT	TT	INTRON	101510780	GTP-binding protein ERG	
SNP_69188_A_48050	NW_004515817.1	scaffold306	48050	GG	TT	TT	INTERGENIC			
SNP_69189_A_58867	NW_004515817.1	scaffold306	58867	GG	AA	AA	INTERGENIC			
SNP_69190_A_58885	NW_004515817.1	scaffold306	58885	GG	AA	AA	INTERGENIC			
SNP_69191_A_58898	NW_004515817.1	scaffold306	58898	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69193_A_59164	NW_004515817.1	scaffold306	59164	GG	CC	CC	INTERGENIC		
SNP_69194_A_59283	NW_004515817.1	scaffold306	59283	AA	GG	GG	INTERGENIC		
SNP_69195_A_59288	NW_004515817.1	scaffold306	59288	TT	AA	AA	INTERGENIC		
SNP_69196_A_59303	NW_004515817.1	scaffold306	59303	TT	CC	CC	INTERGENIC		
SNP_69197_A_88755	NW_004515817.1	scaffold306	88755	TT	CC	CC	INTERGENIC		
SNP_69198_A_88789	NW_004515817.1	scaffold306	88789	CC	AA	AA	INTERGENIC		
SNP_69199_A_88890	NW_004515817.1	scaffold306	88890	CC	GG	GG	INTERGENIC		
SNP_69200_A_89074	NW_004515817.1	scaffold306	89074	GG	AA	AA	INTERGENIC		
SNP_69201_A_109900	NW_004515817.1	scaffold306	109900	CC	GG	GG	INTERGENIC		
SNP_69202_A_125472	NW_004515817.1	scaffold306	125472	TT	CC	CC	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69203_A_126419	NW_004515817.1	scaffold306	126419	TT	GG	GG	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69205_A_128864	NW_004515817.1	scaffold306	128864	AA	GG	GG	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69208_A_130525	NW_004515817.1	scaffold306	130525	CC	TT	TT	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69209_A_130556	NW_004515817.1	scaffold306	130556	TT	CC	CC	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69210_A_130699	NW_004515817.1	scaffold306	130699	AA	CC	CC	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69211_A_130767	NW_004515817.1	scaffold306	130767	AA	CC	CC	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69212_A_131271	NW_004515817.1	scaffold306	131271	AA	TT	TT	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69213_A_131368	NW_004515817.1	scaffold306	131368	TT	CC	CC	INTRON	101514232	13-hydroxylupanine O-tigloyltransferase-like
SNP_69215_A_180468	NW_004515817.1	scaffold306	180468	TT	GG	GG	INTERGENIC		
SNP_69216_A_186590	NW_004515817.1	scaffold306	186590	TT	AA	AA	INTRON	101511955	13-hydroxylupanine O-tigloyltransferase-like
SNP_69217_A_186702	NW_004515817.1	scaffold306	186702	TT	CC	CC	INTRON	101511955	13-hydroxylupanine O-tigloyltransferase-like
SNP_69218_A_196782	NW_004515817.1	scaffold306	196782	TT	AA	AA	INTRON	101511955	13-hydroxylupanine O-tigloyltransferase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69220_A_197395	NW_004515817.1	scaffold306	197395	TT	CC	CC	NON_SYNONYMOUS_CODING	101511955	13-hydroxylupanine O-ligoyltransferase-like
SNP_69221_A_197432	NW_004515817.1	scaffold306	197432	TT	AA	AA	NON_SYNONYMOUS_CODING	101511955	13-hydroxylupanine O-ligoyltransferase-like
SNP_69222_A_203645	NW_004515817.1	scaffold306	203645	TT	GG	GG	INTERGENIC		
SNP_69223_A_208691	NW_004515817.1	scaffold306	208691	TT	CC	CC	INTERGENIC		
SNP_69224_A_210975	NW_004515817.1	scaffold306	210975	GG	AA	AA	INTERGENIC		
SNP_69225_A_216430	NW_004515817.1	scaffold306	216430	TT	GG	GG	URR	101514546	uncharacterized LOC101514546
SNP_69226_A_216864	NW_004515817.1	scaffold306	216864	TT	CC	CC	URR	101514546	uncharacterized LOC101514546
SNP_69227_A_216943	NW_004515817.1	scaffold306	216943	TT	GG	GG	URR	101514546	uncharacterized LOC101514546
SNP_69228_A_219494	NW_004515817.1	scaffold306	219494	AA	GG	GG	INTERGENIC		
SNP_69229_A_219654	NW_004515817.1	scaffold306	219654	CC	TT	TT	INTERGENIC		
SNP_69230_A_227272	NW_004515817.1	scaffold306	227272	TT	AA	AA	INTERGENIC		
SNP_69231_A_236773	NW_004515817.1	scaffold306	236773	CC	AA	AA	INTERGENIC		
SNP_69232_A_252765	NW_004515817.1	scaffold306	252765	AA	CC	CC	INTERGENIC		
SNP_69233_A_252766	NW_004515817.1	scaffold306	252766	CC	AA	AA	INTERGENIC		
SNP_69234_A_301909	NW_004515817.1	scaffold306	301909	TT	CC	CC	INTERGENIC		
SNP_69235_A_302242	NW_004515817.1	scaffold306	302242	AA	GG	GG	INTERGENIC		
SNP_69236_A_302441	NW_004515817.1	scaffold306	302441	CC	AA	AA	INTERGENIC		
SNP_69237_A_334394	NW_004515817.1	scaffold306	334394	GG	TT	TT	INTERGENIC		
SNP_69238_A_370894	NW_004515817.1	scaffold306	370894	AA	CC	CC	INTERGENIC		
SNP_69239_A_373398	NW_004515817.1	scaffold306	373398	TT	CC	CC	INTERGENIC		
SNP_69240_A_410959	NW_004515817.1	scaffold306	410959	GG	TT	TT	INTERGENIC		
SNP_69241_A_431671	NW_004515817.1	scaffold306	431671	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69242_A_447316	NW_004515817.1	scaffold306	447316	TT	CC	CC	INTERGENIC		
SNP_69243_A_449394	NW_004515817.1	scaffold306	449394	AA	TT	TT	DRR	101488270	Unknown function
SNP_69244_A_464470	NW_004515817.1	scaffold306	464470	CC	TT	TT	INTERGENIC		
SNP_69245_A_471537	NW_004515817.1	scaffold306	471537	CC	TT	TT	INTERGENIC		
SNP_69247_A_485702	NW_004515817.1	scaffold306	485702	AA	TT	TT	INTERGENIC		
SNP_69248_A_48612	NW_004515818.1	scaffold308_2	48612	GG	AA	AA	INTERGENIC		
SNP_69249_A_68464	NW_004515818.1	scaffold308_2	68464	AA	CC	CC	INTERGENIC		
SNP_69250_A_70211	NW_004515818.1	scaffold308_2	70211	AA	GG	GG	INTERGENIC		
SNP_69251_A_76429	NW_004515818.1	scaffold308_2	76429	GG	AA	AA	URR	101493714	sucrose synthase 6-like
SNP_69253_A_78111	NW_004515818.1	scaffold308_2	78111	TT	CC	CC	INTERGENIC		
SNP_69255_A_84096	NW_004515818.1	scaffold308_2	84096	AA	GG	GG	URR	101494350	sucrose synthase 6-like
SNP_69256_A_84622	NW_004515818.1	scaffold308_2	84622	TT	AA	AA	URR	101494350	sucrose synthase 6-like
SNP_69257_A_84675	NW_004515818.1	scaffold308_2	84675	CC	TT	TT	URR	101494350	sucrose synthase 6-like
SNP_69258_A_84683	NW_004515818.1	scaffold308_2	84683	GG	AA	AA	URR	101494350	sucrose synthase 6-like
SNP_69259_A_84767	NW_004515818.1	scaffold308_2	84767	TT	CC	CC	URR	101494350	sucrose synthase 6-like
SNP_69260_A_84848	NW_004515818.1	scaffold308_2	84848	AA	GG	GG	URR	101494350	sucrose synthase 6-like
SNP_69261_A_84889	NW_004515818.1	scaffold308_2	84889	TT	AA	AA	URR	101494350	sucrose synthase 6-like
SNP_69262_A_85441	NW_004515818.1	scaffold308_2	85441	TT	AA	AA	INTERGENIC		
SNP_69263_A_93009	NW_004515818.1	scaffold308_2	93009	CC	AA	AA	URR	101494981	sucrose synthase 6-like
SNP_69264_A_96857	NW_004515818.1	scaffold308_2	96857	GG	AA	AA	INTERGENIC		
SNP_69265_A_106655	NW_004515818.1	scaffold308_2	106655	TT	CC	CC	SYNONYMOUS_CODING	101495307	uncharacterized LOC101495307
SNP_69266_A_123506	NW_004515818.1	scaffold308_2	123506	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69267_A_173363	NW_004515818.1	scaffold308_2	173363	TT	CC	CC	INTERGENIC		
SNP_69268_A_173909	NW_004515818.1	scaffold308_2	173909	AA	GG	GG	INTERGENIC		
SNP_69269_A_173974	NW_004515818.1	scaffold308_2	173974	TT	CC	CC	INTERGENIC		
SNP_69270_A_174292	NW_004515818.1	scaffold308_2	174292	AA	GG	GG	INTERGENIC		
SNP_69273_A_247022	NW_004515818.1	scaffold308_2	247022	TT	GG	GG	INTERGENIC		
SNP_69274_A_262469	NW_004515818.1	scaffold308_2	262469	AA	GG	GG	DRR	101491428	photosystem II reaction center protein K-like
SNP_69276_A_263428	NW_004515818.1	scaffold308_2	263428	AA	GG	GG	URR	101491428	photosystem II reaction center protein K-like
SNP_69278_A_263534	NW_004515818.1	scaffold308_2	263534	GG	CC	CC	URR	101491428	photosystem II reaction center protein K-like
SNP_69279_A_263546	NW_004515818.1	scaffold308_2	263546	CC	TT	TT	URR	101491428	photosystem II reaction center protein K-like
SNP_69280_A_263580	NW_004515818.1	scaffold308_2	263580	AA	GG	GG	URR	101491428	photosystem II reaction center protein K-like
SNP_69281_A_263596	NW_004515818.1	scaffold308_2	263596	TT	CC	CC	URR	101491428	photosystem II reaction center protein K-like
SNP_69282_A_263630	NW_004515818.1	scaffold308_2	263630	CC	GG	GG	URR	101491428	photosystem II reaction center protein K-like
SNP_69283_A_263639	NW_004515818.1	scaffold308_2	263639	GG	AA	AA	URR	101491428	photosystem II reaction center protein K-like
SNP_69284_A_263649	NW_004515818.1	scaffold308_2	263649	CC	AA	AA	URR	101491428	photosystem II reaction center protein K-like
SNP_69285_A_263650	NW_004515818.1	scaffold308_2	263650	TT	CC	CC	URR	101491428	photosystem II reaction center protein K-like
SNP_69286_A_263675	NW_004515818.1	scaffold308_2	263675	TT	CC	CC	URR	101491428	photosystem II reaction center protein K-like
SNP_69287_A_263677	NW_004515818.1	scaffold308_2	263677	CC	TT	TT	URR	101491428	photosystem II reaction center protein K-like
SNP_69288_A_264340	NW_004515818.1	scaffold308_2	264340	AA	GG	GG	URR	101491428	photosystem II reaction center protein K-like
SNP_69289_A_264341	NW_004515818.1	scaffold308_2	264341	CC	AA	AA	URR	101491428	photosystem II reaction center protein K-like
SNP_69290_A_264371	NW_004515818.1	scaffold308_2	264371	GG	TT	TT	URR	101491428	photosystem II reaction center protein K-like
SNP_69292_A_264419	NW_004515818.1	scaffold308_2	264419	AA	GG	GG	URR	101491428	photosystem II reaction center protein K-like
SNP_69293_A_264589	NW_004515818.1	scaffold308_2	264589	TT	AA	AA	URR	101491428	photosystem II reaction center protein K-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69294_A_264602	NW_004515818.1	scaffold308_2	264602	AA	GG	GG	URR		101491428	photosystem II reaction center protein K-like
SNP_69295_A_264880	NW_004515818.1	scaffold308_2	264880	CC	AA	AA	URR		101491428	photosystem II reaction center protein K-like
SNP_69296_A_264885	NW_004515818.1	scaffold308_2	264885	TT	AA	AA	URR		101491428	photosystem II reaction center protein K-like
SNP_69297_A_264912	NW_004515818.1	scaffold308_2	264912	TT	CC	CC	URR		101491428	photosystem II reaction center protein K-like
SNP_69298_A_264956	NW_004515818.1	scaffold308_2	264956	AA	GG	GG	URR		101491428	photosystem II reaction center protein K-like
SNP_69299_A_265008	NW_004515818.1	scaffold308_2	265008	TT	CC	CC	URR		101491428	photosystem II reaction center protein K-like
SNP_69300_A_265368	NW_004515818.1	scaffold308_2	265368	GG	AA	AA	URR		101491741	photosystem II reaction center protein I-like
SNP_69301_A_265395	NW_004515818.1	scaffold308_2	265395	TT	CC	CC	URR		101491741	photosystem II reaction center protein I-like
SNP_69302_A_265423	NW_004515818.1	scaffold308_2	265423	AA	GG	GG	URR		101491741	photosystem II reaction center protein I-like
SNP_69303_A_265767	NW_004515818.1	scaffold308_2	265767	TT	CC	CC	URR		101491741	photosystem II reaction center protein I-like
SNP_69304_A_265963	NW_004515818.1	scaffold308_2	265963	TT	CC	CC	URR		101491741	photosystem II reaction center protein I-like
SNP_69305_A_266021	NW_004515818.1	scaffold308_2	266021	TT	CC	CC	URR		101491741	photosystem II reaction center protein I-like
SNP_69307_A_266366	NW_004515818.1	scaffold308_2	266366	AA	GG	GG	INTERGENIC			
SNP_69308_A_266372	NW_004515818.1	scaffold308_2	266372	TT	AA	AA	INTERGENIC			
SNP_69309_A_266380	NW_004515818.1	scaffold308_2	266380	TT	CC	CC	INTERGENIC			
SNP_69310_A_266464	NW_004515818.1	scaffold308_2	266464	AA	CC	CC	INTERGENIC			
SNP_69311_A_268222	NW_004515818.1	scaffold308_2	268222	TT	CC	CC	URR		101495957	Unknown function
SNP_69312_A_307305	NW_004515818.1	scaffold308_2	307305	GG	AA	AA	INTERGENIC			
SNP_69313_A_307355	NW_004515818.1	scaffold308_2	307355	TT	CC	CC	INTERGENIC			
SNP_69314_A_320736	NW_004515818.1	scaffold308_2	320736	AA	GG	GG	INTERGENIC			
SNP_69315_A_325199	NW_004515818.1	scaffold308_2	325199	TT	CC	CC	INTERGENIC			
SNP_69316_A_325474	NW_004515818.1	scaffold308_2	325474	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69317_A_325584	NW_004515818.1	scaffold308_2	325584	CC	TT	TT	INTERGENIC			
SNP_69318_A_325598	NW_004515818.1	scaffold308_2	325598	CC	TT	TT	INTERGENIC			
SNP_69319_A_325662	NW_004515818.1	scaffold308_2	325662	GG	AA	AA	INTERGENIC			
SNP_69320_A_325713	NW_004515818.1	scaffold308_2	325713	AA	TT	TT	INTERGENIC			
SNP_69321_A_357185	NW_004515818.1	scaffold308_2	357185	TT	CC	CC	INTERGENIC			
SNP_69322_A_357229	NW_004515818.1	scaffold308_2	357229	AA	GG	GG	INTERGENIC			
SNP_69323_A_6444	NW_004515819.1	scaffold310	6444	AA	CC	CC	INTERGENIC			
SNP_69324_A_6486	NW_004515819.1	scaffold310	6486	GG	CC	CC	INTERGENIC			
SNP_69325_A_6792	NW_004515819.1	scaffold310	6792	TT	CC	CC	INTERGENIC			
SNP_69326_A_6986	NW_004515819.1	scaffold310	6986	TT	CC	CC	INTERGENIC			
SNP_69327_A_7429	NW_004515819.1	scaffold310	7429	CC	TT	TT	INTERGENIC			
SNP_69328_A_7456	NW_004515819.1	scaffold310	7456	TT	CC	CC	INTERGENIC			
SNP_69329_A_7515	NW_004515819.1	scaffold310	7515	TT	CC	CC	INTERGENIC			
SNP_69330_A_7564	NW_004515819.1	scaffold310	7564	AA	CC	CC	INTERGENIC			
SNP_69331_A_7565	NW_004515819.1	scaffold310	7565	TT	CC	CC	INTERGENIC			
SNP_69332_A_7857	NW_004515819.1	scaffold310	7857	GG	CC	CC	INTERGENIC			
SNP_69333_A_12478	NW_004515819.1	scaffold310	12478	GG	AA	AA	INTERGENIC			
SNP_69334_A_23922	NW_004515819.1	scaffold310	23922	AA	TT	TT	INTERGENIC			
SNP_69335_A_24041	NW_004515819.1	scaffold310	24041	AA	GG	GG	INTERGENIC			
SNP_69336_A_24047	NW_004515819.1	scaffold310	24047	TT	AA	AA	INTERGENIC			
SNP_69337_A_24201	NW_004515819.1	scaffold310	24201	GG	AA	AA	INTERGENIC			
SNP_69338_A_26171	NW_004515819.1	scaffold310	26171	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69339_A_26214	NW_004515819.1	scaffold310	26214	CC	TT	TT	INTERGENIC			
SNP_69341_A_26254	NW_004515819.1	scaffold310	26254	CC	TT	TT	INTERGENIC			
SNP_69342_A_26294	NW_004515819.1	scaffold310	26294	GG	AA	AA	INTERGENIC			
SNP_69343_A_37948	NW_004515819.1	scaffold310	37948	TT	AA	AA	INTERGENIC			
SNP_69344_A_38250	NW_004515819.1	scaffold310	38250	TT	AA	AA	INTERGENIC			
SNP_69345_A_38268	NW_004515819.1	scaffold310	38268	AA	TT	TT	INTERGENIC			
SNP_69346_A_39835	NW_004515819.1	scaffold310	39835	TT	AA	AA	INTERGENIC			
SNP_69347_A_4226	NW_004515820.1	scaffold311	4226	AA	GG	GG	INTERGENIC			
SNP_69348_A_4507	NW_004515820.1	scaffold311	4507	TT	CC	CC	INTERGENIC			
SNP_69349_A_8637	NW_004515820.1	scaffold311	8637	AA	GG	GG	INTERGENIC			
SNP_69350_A_8638	NW_004515820.1	scaffold311	8638	TT	CC	CC	INTERGENIC			
SNP_69351_A_21365	NW_004515820.1	scaffold311	21365	CC	TT	TT	INTERGENIC			
SNP_69352_A_22771	NW_004515820.1	scaffold311	22771	AA	TT	TT	INTERGENIC			
SNP_69353_A_23153	NW_004515820.1	scaffold311	23153	GG	CC	CC	INTERGENIC			
SNP_69354_A_24003	NW_004515820.1	scaffold311	24003	GG	CC	CC	INTERGENIC			
SNP_69355_A_24045	NW_004515820.1	scaffold311	24045	CC	GG	GG	INTERGENIC			
SNP_69356_A_24053	NW_004515820.1	scaffold311	24053	GG	CC	CC	INTERGENIC			
SNP_69357_A_24533	NW_004515820.1	scaffold311	24533	TT	GG	GG	INTERGENIC			
SNP_69358_A_24844	NW_004515820.1	scaffold311	24844	GG	CC	CC	INTERGENIC			
SNP_69359_A_24864	NW_004515820.1	scaffold311	24864	AA	GG	GG	INTERGENIC			
SNP_69360_A_24933	NW_004515820.1	scaffold311	24933	GG	TT	TT	INTERGENIC			
SNP_69361_A_25236	NW_004515820.1	scaffold311	25236	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69363_A_43475	NW_004515820.1	scaffold311	43475	GG	AA	AA	INTERGENIC			
SNP_69364_A_43722	NW_004515820.1	scaffold311	43722	AA	GG	GG	INTERGENIC			
SNP_69365_A_44163	NW_004515820.1	scaffold311	44163	TT	CC	CC	INTERGENIC			
SNP_69366_A_56275	NW_004515820.1	scaffold311	56275	GG	CC	CC	INTERGENIC			
SNP_69367_A_65253	NW_004515820.1	scaffold311	65253	CC	GG	GG	INTERGENIC			
SNP_69368_A_65254	NW_004515820.1	scaffold311	65254	GG	AA	AA	INTERGENIC			
SNP_69369_A_90320	NW_004515820.1	scaffold311	90320	TT	AA	AA	INTERGENIC			
SNP_69370_A_90583	NW_004515820.1	scaffold311	90583	GG	TT	TT	INTERGENIC			
SNP_69371_A_90600	NW_004515820.1	scaffold311	90600	AA	CC	CC	INTERGENIC			
SNP_69372_A_90674	NW_004515820.1	scaffold311	90674	AA	CC	CC	INTERGENIC			
SNP_69373_A_90675	NW_004515820.1	scaffold311	90675	AA	TT	TT	INTERGENIC			
SNP_69374_A_90714	NW_004515820.1	scaffold311	90714	CC	GG	GG	INTERGENIC			
SNP_69375_A_91626	NW_004515820.1	scaffold311	91626	GG	TT	TT	INTERGENIC			
SNP_69378_A_91809	NW_004515820.1	scaffold311	91809	TT	CC	CC	INTERGENIC			
SNP_69379_A_91812	NW_004515820.1	scaffold311	91812	GG	TT	TT	INTERGENIC			
SNP_69380_A_91819	NW_004515820.1	scaffold311	91819	AA	CC	CC	INTERGENIC			
SNP_69381_A_98112	NW_004515820.1	scaffold311	98112	AA	TT	TT	INTERGENIC			
SNP_69382_A_98143	NW_004515820.1	scaffold311	98143	GG	TT	TT	INTERGENIC			
SNP_69383_A_102099	NW_004515820.1	scaffold311	102099	GG	TT	TT	INTERGENIC			
SNP_69384_A_102119	NW_004515820.1	scaffold311	102119	GG	AA	AA	INTERGENIC			
SNP_69385_A_102205	NW_004515820.1	scaffold311	102205	TT	AA	AA	INTERGENIC			
SNP_69386_A_102208	NW_004515820.1	scaffold311	102208	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69387_A_102424	NW_004515820.1	scaffold311	102424	AA	CC	CC	INTERGENIC			
SNP_69388_A_102433	NW_004515820.1	scaffold311	102433	AA	TT	TT	INTERGENIC			
SNP_69389_A_123204	NW_004515820.1	scaffold311	123204	CC	TT	TT	INTERGENIC			
SNP_69390_A_123354	NW_004515820.1	scaffold311	123354	AA	TT	TT	INTERGENIC			
SNP_69391_A_123536	NW_004515820.1	scaffold311	123536	AA	TT	TT	INTERGENIC			
SNP_69392_A_123575	NW_004515820.1	scaffold311	123575	TT	CC	CC	INTERGENIC			
SNP_69393_A_123601	NW_004515820.1	scaffold311	123601	AA	TT	TT	INTERGENIC			
SNP_69394_A_123603	NW_004515820.1	scaffold311	123603	AA	CC	CC	INTERGENIC			
SNP_69395_A_123609	NW_004515820.1	scaffold311	123609	TT	CC	CC	INTERGENIC			
SNP_69396_A_123622	NW_004515820.1	scaffold311	123622	CC	GG	GG	INTERGENIC			
SNP_69397_A_129569	NW_004515820.1	scaffold311	129569	AA	CC	CC	INTERGENIC			
SNP_69398_A_131355	NW_004515820.1	scaffold311	131355	GG	CC	CC	INTERGENIC			
SNP_69400_A_131668	NW_004515820.1	scaffold311	131668	TT	CC	CC	INTERGENIC			
SNP_69401_A_131669	NW_004515820.1	scaffold311	131669	GG	AA	AA	INTERGENIC			
SNP_69402_A_160278	NW_004515820.1	scaffold311	160278	AA	CC	CC	INTERGENIC			
SNP_69403_A_160279	NW_004515820.1	scaffold311	160279	CC	AA	AA	INTERGENIC			
SNP_69404_A_160324	NW_004515820.1	scaffold311	160324	CC	TT	TT	INTERGENIC			
SNP_69405_A_160583	NW_004515820.1	scaffold311	160583	AA	GG	GG	INTERGENIC			
SNP_69406_A_160651	NW_004515820.1	scaffold311	160651	TT	GG	GG	INTERGENIC			
SNP_69407_A_160735	NW_004515820.1	scaffold311	160735	TT	CC	CC	INTERGENIC			
SNP_69408_A_160879	NW_004515820.1	scaffold311	160879	CC	TT	TT	INTERGENIC			
SNP_69409_A_160880	NW_004515820.1	scaffold311	160880	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69410_A_160979	NW_004515820.1	scaffold311	160979	GG	CC	CC	INTERGENIC			
SNP_69411_A_160986	NW_004515820.1	scaffold311	160986	CC	AA	AA	INTERGENIC			
SNP_69412_A_169908	NW_004515820.1	scaffold311	169908	GG	AA	AA	INTERGENIC			
SNP_69413_A_169970	NW_004515820.1	scaffold311	169970	TT	CC	CC	INTERGENIC			
SNP_69414_A_170227	NW_004515820.1	scaffold311	170227	AA	GG	GG	INTERGENIC			
SNP_69415_A_180563	NW_004515820.1	scaffold311	180563	TT	GG	GG	INTERGENIC			
SNP_69416_A_180656	NW_004515820.1	scaffold311	180656	AA	GG	GG	INTERGENIC			
SNP_69417_A_180742	NW_004515820.1	scaffold311	180742	TT	CC	CC	INTERGENIC			
SNP_69418_A_180906	NW_004515820.1	scaffold311	180906	GG	AA	AA	INTERGENIC			
SNP_69419_A_180936	NW_004515820.1	scaffold311	180936	TT	CC	CC	INTERGENIC			
SNP_69420_A_180937	NW_004515820.1	scaffold311	180937	GG	AA	AA	INTERGENIC			
SNP_69421_A_180966	NW_004515820.1	scaffold311	180966	CC	TT	TT	INTERGENIC			
SNP_69422_A_180984	NW_004515820.1	scaffold311	180984	TT	CC	CC	INTERGENIC			
SNP_69423_A_180997	NW_004515820.1	scaffold311	180997	AA	TT	TT	INTERGENIC			
SNP_69424_A_181014	NW_004515820.1	scaffold311	181014	GG	AA	AA	INTERGENIC			
SNP_69425_A_181017	NW_004515820.1	scaffold311	181017	CC	TT	TT	INTERGENIC			
SNP_69426_A_181029	NW_004515820.1	scaffold311	181029	AA	GG	GG	INTERGENIC			
SNP_69427_A_181049	NW_004515820.1	scaffold311	181049	GG	AA	AA	INTERGENIC			
SNP_69428_A_181081	NW_004515820.1	scaffold311	181081	TT	CC	CC	INTERGENIC			
SNP_69429_A_181086	NW_004515820.1	scaffold311	181086	TT	CC	CC	INTERGENIC			
SNP_69430_A_181095	NW_004515820.1	scaffold311	181095	GG	AA	AA	INTERGENIC			
SNP_69431_A_186255	NW_004515820.1	scaffold311	186255	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69432_A_188197	NW_004515820.1	scaffold311	188197	GG	CC	CC	INTERGENIC			
SNP_69433_A_205852	NW_004515820.1	scaffold311	205852	TT	CC	CC	INTERGENIC			
SNP_69434_A_227872	NW_004515820.1	scaffold311	227872	AA	GG	GG	INTERGENIC			
SNP_69435_A_227883	NW_004515820.1	scaffold311	227883	TT	CC	CC	INTERGENIC			
SNP_69436_A_231462	NW_004515820.1	scaffold311	231462	TT	CC	CC	INTERGENIC			
SNP_69437_A_3213	NW_004515822.1	scaffold313	3213	GG	CC	CC	INTERGENIC			
SNP_69439_A_6274	NW_004515822.1	scaffold313	6274	CC	GG	GG	INTERGENIC			
SNP_69440_A_6575	NW_004515822.1	scaffold313	6575	TT	GG	GG	INTERGENIC			
SNP_69441_A_6723	NW_004515822.1	scaffold313	6723	AA	CC	CC	INTERGENIC			
SNP_69442_A_6733	NW_004515822.1	scaffold313	6733	CC	TT	TT	INTERGENIC			
SNP_69443_A_6774	NW_004515822.1	scaffold313	6774	AA	GG	GG	INTERGENIC			
SNP_69444_A_6841	NW_004515822.1	scaffold313	6841	AA	TT	TT	INTERGENIC			
SNP_69445_A_7441	NW_004515822.1	scaffold313	7441	AA	GG	GG	INTERGENIC			
SNP_69446_A_10746	NW_004515822.1	scaffold313	10746	GG	CC	CC	INTERGENIC			
SNP_69448_A_22645	NW_004515823.1	scaffold314	22645	AA	GG	GG	INTERGENIC			
SNP_69449_A_22686	NW_004515823.1	scaffold314	22686	AA	GG	GG	INTERGENIC			
SNP_69450_A_22699	NW_004515823.1	scaffold314	22699	TT	CC	CC	INTERGENIC			
SNP_69451_A_22706	NW_004515823.1	scaffold314	22706	CC	AA	AA	INTERGENIC			
SNP_69452_A_22723	NW_004515823.1	scaffold314	22723	GG	AA	AA	INTERGENIC			
SNP_69453_A_22765	NW_004515823.1	scaffold314	22765	TT	CC	CC	INTERGENIC			
SNP_69454_A_22786	NW_004515823.1	scaffold314	22786	GG	CC	CC	INTERGENIC			
SNP_69455_A_22813	NW_004515823.1	scaffold314	22813	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69456_A_22831	NW_004515823.1	scaffold314	22831	AA	GG	GG	INTERGENIC			
SNP_69457_A_22839	NW_004515823.1	scaffold314	22839	CC	TT	TT	INTERGENIC			
SNP_69458_A_22858	NW_004515823.1	scaffold314	22858	AA	GG	GG	INTERGENIC			
SNP_69459_A_22880	NW_004515823.1	scaffold314	22880	CC	GG	GG	INTERGENIC			
SNP_69460_A_22890	NW_004515823.1	scaffold314	22890	CC	TT	TT	INTERGENIC			
SNP_69461_A_22918	NW_004515823.1	scaffold314	22918	AA	GG	GG	INTERGENIC			
SNP_69462_A_23037	NW_004515823.1	scaffold314	23037	AA	GG	GG	INTERGENIC			
SNP_69463_A_23163	NW_004515823.1	scaffold314	23163	CC	TT	TT	INTERGENIC			
SNP_69464_A_23164	NW_004515823.1	scaffold314	23164	CC	TT	TT	INTERGENIC			
SNP_69465_A_23165	NW_004515823.1	scaffold314	23165	TT	CC	CC	INTERGENIC			
SNP_69466_A_23196	NW_004515823.1	scaffold314	23196	GG	TT	TT	INTERGENIC			
SNP_69467_A_23218	NW_004515823.1	scaffold314	23218	GG	AA	AA	INTERGENIC			
SNP_69468_A_23232	NW_004515823.1	scaffold314	23232	TT	CC	CC	INTERGENIC			
SNP_69469_A_23236	NW_004515823.1	scaffold314	23236	GG	TT	TT	INTERGENIC			
SNP_69470_A_23241	NW_004515823.1	scaffold314	23241	TT	GG	GG	INTERGENIC			
SNP_69471_A_23297	NW_004515823.1	scaffold314	23297	AA	GG	GG	INTERGENIC			
SNP_69472_A_33020	NW_004515823.1	scaffold314	33020	GG	CC	CC	INTERGENIC			
SNP_69473_A_55035	NW_004515823.1	scaffold314	55035	CC	TT	TT	INTERGENIC			
SNP_69474_A_77368	NW_004515823.1	scaffold314	77368	AA	GG	GG	INTERGENIC			
SNP_69475_A_79188	NW_004515823.1	scaffold314	79188	GG	CC	CC	INTERGENIC			
SNP_69476_A_79705	NW_004515823.1	scaffold314	79705	TT	CC	CC	INTERGENIC			
SNP_69477_A_79745	NW_004515823.1	scaffold314	79745	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69479_A_97443	NW_004515823.1	scaffold314	97443	TT	CC	CC	INTERGENIC			
SNP_69480_A_102147	NW_004515823.1	scaffold314	102147	GG	AA	AA	INTERGENIC			
SNP_69481_A_112908	NW_004515823.1	scaffold314	112908	GG	TT	TT	INTERGENIC			
SNP_69482_A_112915	NW_004515823.1	scaffold314	112915	AA	TT	TT	INTERGENIC			
SNP_69483_A_127258	NW_004515823.1	scaffold314	127258	TT	GG	GG	INTERGENIC			
SNP_69484_A_127267	NW_004515823.1	scaffold314	127267	AA	CC	CC	INTERGENIC			
SNP_69485_A_127277	NW_004515823.1	scaffold314	127277	AA	TT	TT	INTERGENIC			
SNP_69486_A_127279	NW_004515823.1	scaffold314	127279	TT	AA	AA	INTERGENIC			
SNP_69487_A_127280	NW_004515823.1	scaffold314	127280	GG	TT	TT	INTERGENIC			
SNP_69488_A_127281	NW_004515823.1	scaffold314	127281	TT	AA	AA	INTERGENIC			
SNP_69489_A_127282	NW_004515823.1	scaffold314	127282	TT	CC	CC	INTERGENIC			
SNP_69490_A_157308	NW_004515823.1	scaffold314	157308	TT	GG	GG	INTERGENIC			
SNP_69491_A_157356	NW_004515823.1	scaffold314	157356	AA	GG	GG	INTERGENIC			
SNP_69492_A_157374	NW_004515823.1	scaffold314	157374	CC	TT	TT	INTERGENIC			
SNP_69493_A_222657	NW_004515823.1	scaffold314	222657	CC	TT	TT	INTERGENIC			
SNP_69494_A_222730	NW_004515823.1	scaffold314	222730	CC	TT	TT	INTERGENIC			
SNP_69495_A_222989	NW_004515823.1	scaffold314	222989	CC	TT	TT	INTERGENIC			
SNP_69496_A_222997	NW_004515823.1	scaffold314	222997	AA	TT	TT	INTERGENIC			
SNP_69497_A_223479	NW_004515823.1	scaffold314	223479	GG	AA	AA	INTERGENIC			
SNP_69498_A_223938	NW_004515823.1	scaffold314	223938	AA	TT	TT	INTERGENIC			
SNP_69499_A_224056	NW_004515823.1	scaffold314	224056	TT	CC	CC	INTERGENIC			
SNP_69500_A_224324	NW_004515823.1	scaffold314	224324	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69501_A_224500	NW_004515823.1	scaffold314	224500	TT	GG	GG	INTERGENIC			
SNP_69502_A_225033	NW_004515823.1	scaffold314	225033	TT	CC	CC	INTERGENIC			
SNP_69503_A_231144	NW_004515823.1	scaffold314	231144	GG	AA	AA	INTERGENIC			
SNP_69504_A_231751	NW_004515823.1	scaffold314	231751	GG	AA	AA	INTERGENIC			
SNP_69505_A_232451	NW_004515823.1	scaffold314	232451	TT	GG	GG	INTERGENIC			
SNP_69506_A_273754	NW_004515823.1	scaffold314	273754	TT	GG	GG	INTERGENIC			
SNP_69507_A_275295	NW_004515823.1	scaffold314	275295	TT	CC	CC	INTERGENIC			
SNP_69508_A_275416	NW_004515823.1	scaffold314	275416	AA	CC	CC	INTERGENIC			
SNP_69509_A_275550	NW_004515823.1	scaffold314	275550	AA	GG	GG	INTERGENIC			
SNP_69510_A_275593	NW_004515823.1	scaffold314	275593	AA	TT	TT	INTERGENIC			
SNP_69511_A_275594	NW_004515823.1	scaffold314	275594	GG	TT	TT	INTERGENIC			
SNP_69512_A_275596	NW_004515823.1	scaffold314	275596	GG	TT	TT	INTERGENIC			
SNP_69513_A_275619	NW_004515823.1	scaffold314	275619	TT	CC	CC	INTERGENIC			
SNP_69514_A_276073	NW_004515823.1	scaffold314	276073	GG	AA	AA	INTERGENIC			
SNP_69515_A_302803	NW_004515823.1	scaffold314	302803	GG	AA	AA	URR	101497828	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	
SNP_69516_A_302811	NW_004515823.1	scaffold314	302811	AA	GG	GG	URR	101497828	G-type lectin S-receptor-like serine/threonine-protein kinase At4g27290	
SNP_69517_A_340963	NW_004515823.1	scaffold314	340963	AA	GG	GG	INTERGENIC			
SNP_69518_A_340972	NW_004515823.1	scaffold314	340972	AA	GG	GG	INTERGENIC			
SNP_69519_A_340992	NW_004515823.1	scaffold314	340992	AA	GG	GG	INTERGENIC			
SNP_69520_A_340994	NW_004515823.1	scaffold314	340994	CC	TT	TT	INTERGENIC			
SNP_69521_A_341120	NW_004515823.1	scaffold314	341120	TT	GG	GG	INTERGENIC			
SNP_69522_A_341387	NW_004515823.1	scaffold314	341387	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69523_A_378504	NW_004515823.1	scaffold314	378504	AA	GG	GG	INTERGENIC		
SNP_69525_A_506184	NW_004515823.1	scaffold314	506184	CC	TT	TT	INTERGENIC		
SNP_69526_A_506191	NW_004515823.1	scaffold314	506191	AA	GG	GG	INTERGENIC		
SNP_69527_A_512134	NW_004515823.1	scaffold314	512134	CC	AA	AA	INTERGENIC		
SNP_69528_A_512327	NW_004515823.1	scaffold314	512327	CC	TT	TT	INTERGENIC		
SNP_69529_A_512558	NW_004515823.1	scaffold314	512558	CC	TT	TT	INTERGENIC		
SNP_69530_A_512625	NW_004515823.1	scaffold314	512625	AA	GG	GG	INTERGENIC		
SNP_69531_A_541323	NW_004515823.1	scaffold314	541323	TT	AA	AA	INTRON	101506385	dual specificity protein phosphatase PHS1-like
SNP_69533_A_553156	NW_004515823.1	scaffold314	553156	AA	CC	CC	INTRON	101506385	dual specificity protein phosphatase PHS1-like
SNP_69534_A_595160	NW_004515823.1	scaffold314	595160	GG	AA	AA	INTERGENIC		
SNP_69535_A_740745	NW_004515823.1	scaffold314	740745	TT	AA	AA	INTERGENIC		
SNP_69536_A_742246	NW_004515823.1	scaffold314	742246	AA	TT	TT	INTERGENIC		
SNP_69537_A_760045	NW_004515823.1	scaffold314	760045	TT	CC	CC	INTERGENIC		
SNP_69538_A_1020	NW_004515824.1	scaffold315	1020	GG	CC	CC	INTERGENIC		
SNP_69539_A_308	NW_004515825.1	scaffold317	308	GG	AA	AA	INTERGENIC		
SNP_69540_A_673	NW_004515825.1	scaffold317	673	CC	TT	TT	INTERGENIC		
SNP_69541_A_6490	NW_004515825.1	scaffold317	6490	CC	TT	TT	INTERGENIC		
SNP_69543_A_11294	NW_004515825.1	scaffold317	11294	GG	AA	AA	INTERGENIC		
SNP_69545_A_41139	NW_004515825.1	scaffold317	41139	GG	AA	AA	INTERGENIC		
SNP_69546_A_46281	NW_004515825.1	scaffold317	46281	AA	GG	GG	INTERGENIC		
SNP_69547_A_46286	NW_004515825.1	scaffold317	46286	AA	GG	GG	INTERGENIC		
SNP_69548_A_46388	NW_004515825.1	scaffold317	46388	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_69549_A_46476	NW_004515825.1	scaffold317	46476	AA	GG	GG	INTERGENIC		
SNP_69550_A_46500	NW_004515825.1	scaffold317	46500	TT	CC	CC	INTERGENIC		
SNP_69551_A_46565	NW_004515825.1	scaffold317	46565	GG	TT	TT	INTERGENIC		
SNP_69552_A_46681	NW_004515825.1	scaffold317	46681	GG	CC	CC	INTERGENIC		
SNP_69553_A_46710	NW_004515825.1	scaffold317	46710	AA	GG	GG	INTERGENIC		
SNP_69554_A_46737	NW_004515825.1	scaffold317	46737	AA	GG	GG	INTERGENIC		
SNP_69555_A_46770	NW_004515825.1	scaffold317	46770	TT	CC	CC	INTERGENIC		
SNP_69556_A_46872	NW_004515825.1	scaffold317	46872	AA	GG	GG	INTERGENIC		
SNP_69557_A_53213	NW_004515825.1	scaffold317	53213	CC	TT	TT	INTERGENIC		
SNP_69558_A_53224	NW_004515825.1	scaffold317	53224	AA	GG	GG	INTERGENIC		
SNP_69559_A_53236	NW_004515825.1	scaffold317	53236	CC	TT	TT	INTERGENIC		
SNP_69560_A_53267	NW_004515825.1	scaffold317	53267	CC	TT	TT	INTERGENIC		
SNP_69561_A_54223	NW_004515825.1	scaffold317	54223	TT	GG	GG	INTERGENIC		
SNP_69562_A_54232	NW_004515825.1	scaffold317	54232	GG	AA	AA	INTERGENIC		
SNP_69563_A_54275	NW_004515825.1	scaffold317	54275	TT	GG	GG	INTERGENIC		
SNP_69564_A_54588	NW_004515825.1	scaffold317	54588	AA	GG	GG	INTERGENIC		
SNP_69565_A_60239	NW_004515825.1	scaffold317	60239	AA	TT	TT	INTERGENIC		
SNP_69567_A_80822	NW_004515825.1	scaffold317	80822	GG	AA	AA	INTERGENIC		
SNP_69568_A_105563	NW_004515825.1	scaffold317	105563	TT	GG	GG	INTERGENIC		
SNP_69569_A_107912	NW_004515825.1	scaffold317	107912	TT	CC	CC	INTERGENIC		
SNP_69570_A_111180	NW_004515825.1	scaffold317	111180	GG	AA	AA	INTERGENIC		
SNP_69571_A_140460	NW_004515825.1	scaffold317	140460	GG	CC	CC	INTRON	101508115	uncharacterized LOC101508115

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69572_A_145899	NW_004515825.1	scaffold317	145899	GG	AA	AA	INTERGENIC			
SNP_69573_A_145919	NW_004515825.1	scaffold317	145919	AA	GG	GG	INTERGENIC			
SNP_69574_A_145973	NW_004515825.1	scaffold317	145973	TT	GG	GG	INTERGENIC			
SNP_69575_A_163483	NW_004515825.1	scaffold317	163483	TT	CC	CC	INTERGENIC			
SNP_69576_A_171862	NW_004515825.1	scaffold317	171862	AA	GG	GG	INTERGENIC			
SNP_69577_A_171928	NW_004515825.1	scaffold317	171928	CC	TT	TT	INTERGENIC			
SNP_69578_A_180241	NW_004515825.1	scaffold317	180241	AA	TT	TT	INTERGENIC			
SNP_69579_A_180247	NW_004515825.1	scaffold317	180247	AA	GG	GG	INTERGENIC			
SNP_69580_A_180258	NW_004515825.1	scaffold317	180258	CC	TT	TT	INTERGENIC			
SNP_69581_A_180259	NW_004515825.1	scaffold317	180259	AA	GG	GG	INTERGENIC			
SNP_69582_A_180274	NW_004515825.1	scaffold317	180274	TT	GG	GG	INTERGENIC			
SNP_69583_A_180298	NW_004515825.1	scaffold317	180298	TT	GG	GG	INTERGENIC			
SNP_69584_A_180364	NW_004515825.1	scaffold317	180364	CC	AA	AA	INTERGENIC			
SNP_69585_A_180394	NW_004515825.1	scaffold317	180394	GG	TT	TT	INTERGENIC			
SNP_69586_A_180410	NW_004515825.1	scaffold317	180410	AA	GG	GG	INTERGENIC			
SNP_69587_A_180619	NW_004515825.1	scaffold317	180619	GG	AA	AA	INTERGENIC			
SNP_69588_A_180704	NW_004515825.1	scaffold317	180704	TT	GG	GG	INTERGENIC			
SNP_69589_A_184718	NW_004515825.1	scaffold317	184718	AA	CC	CC	INTERGENIC			
SNP_69590_A_189778	NW_004515825.1	scaffold317	189778	TT	GG	GG	INTERGENIC			
SNP_69591_A_189836	NW_004515825.1	scaffold317	189836	CC	TT	TT	INTERGENIC			
SNP_69592_A_189861	NW_004515825.1	scaffold317	189861	GG	CC	CC	INTERGENIC			
SNP_69593_A_190079	NW_004515825.1	scaffold317	190079	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69594_A_195082	NW_004515825.1	scaffold317	195082	TT	GG	GG	INTERGENIC			
SNP_69595_A_195129	NW_004515825.1	scaffold317	195129	GG	CC	CC	INTERGENIC			
SNP_69597_A_215489	NW_004515825.1	scaffold317	215489	AA	GG	GG	INTERGENIC			
SNP_69598_A_215493	NW_004515825.1	scaffold317	215493	TT	CC	CC	INTERGENIC			
SNP_69599_A_215587	NW_004515825.1	scaffold317	215587	TT	GG	GG	INTERGENIC			
SNP_69600_A_215589	NW_004515825.1	scaffold317	215589	TT	CC	CC	INTERGENIC			
SNP_69601_A_215590	NW_004515825.1	scaffold317	215590	GG	AA	AA	INTERGENIC			
SNP_69602_A_215650	NW_004515825.1	scaffold317	215650	AA	GG	GG	INTERGENIC			
SNP_69603_A_215673	NW_004515825.1	scaffold317	215673	TT	CC	CC	INTERGENIC			
SNP_69604_A_215683	NW_004515825.1	scaffold317	215683	CC	TT	TT	INTERGENIC			
SNP_69605_A_215699	NW_004515825.1	scaffold317	215699	AA	GG	GG	INTERGENIC			
SNP_69606_A_215748	NW_004515825.1	scaffold317	215748	CC	AA	AA	INTERGENIC			
SNP_69607_A_215808	NW_004515825.1	scaffold317	215808	TT	CC	CC	INTERGENIC			
SNP_69608_A_217734	NW_004515825.1	scaffold317	217734	AA	GG	GG	INTERGENIC			
SNP_69609_A_217744	NW_004515825.1	scaffold317	217744	CC	TT	TT	INTERGENIC			
SNP_69610_A_217750	NW_004515825.1	scaffold317	217750	CC	TT	TT	INTERGENIC			
SNP_69612_A_217948	NW_004515825.1	scaffold317	217948	CC	TT	TT	INTERGENIC			
SNP_69613_A_218045	NW_004515825.1	scaffold317	218045	AA	TT	TT	INTERGENIC			
SNP_69614_A_218108	NW_004515825.1	scaffold317	218108	GG	AA	AA	INTERGENIC			
SNP_69615_A_218138	NW_004515825.1	scaffold317	218138	CC	TT	TT	INTERGENIC			
SNP_69617_A_218170	NW_004515825.1	scaffold317	218170	TT	CC	CC	INTERGENIC			
SNP_69618_A_218213	NW_004515825.1	scaffold317	218213	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69619_A_218226	NW_004515825.1	scaffold317	218226	TT	AA	AA	INTERGENIC			
SNP_69620_A_219954	NW_004515825.1	scaffold317	219954	CC	TT	TT	INTERGENIC			
SNP_69621_A_219978	NW_004515825.1	scaffold317	219978	AA	GG	GG	INTERGENIC			
SNP_69622_A_219987	NW_004515825.1	scaffold317	219987	TT	CC	CC	INTERGENIC			
SNP_69623_A_220007	NW_004515825.1	scaffold317	220007	GG	AA	AA	INTERGENIC			
SNP_69624_A_220014	NW_004515825.1	scaffold317	220014	CC	TT	TT	INTERGENIC			
SNP_69626_A_6687	NW_004515826.1	scaffold319	6687	GG	AA	AA	INTERGENIC			
SNP_69627_A_6733	NW_004515826.1	scaffold319	6733	CC	GG	GG	INTERGENIC			
SNP_69628_A_6759	NW_004515826.1	scaffold319	6759	GG	AA	AA	INTERGENIC			
SNP_69629_A_6774	NW_004515826.1	scaffold319	6774	AA	CC	CC	INTERGENIC			
SNP_69630_A_7174	NW_004515826.1	scaffold319	7174	GG	TT	TT	INTERGENIC			
SNP_69631_A_7175	NW_004515826.1	scaffold319	7175	GG	AA	AA	INTERGENIC			
SNP_69632_A_7178	NW_004515826.1	scaffold319	7178	TT	CC	CC	INTERGENIC			
SNP_69633_A_7179	NW_004515826.1	scaffold319	7179	CC	TT	TT	INTERGENIC			
SNP_69635_A_11992	NW_004515826.1	scaffold319	11992	TT	CC	CC	INTERGENIC			
SNP_69636_A_12046	NW_004515826.1	scaffold319	12046	GG	TT	TT	INTERGENIC			
SNP_69637_A_14763	NW_004515826.1	scaffold319	14763	CC	GG	GG	INTERGENIC			
SNP_69638_A_16161	NW_004515826.1	scaffold319	16161	GG	TT	TT	INTERGENIC			
SNP_69639_A_20996	NW_004515826.1	scaffold319	20996	AA	GG	GG	INTERGENIC			
SNP_69640_A_20998	NW_004515826.1	scaffold319	20998	TT	CC	CC	INTERGENIC			
SNP_69641_A_21000	NW_004515826.1	scaffold319	21000	GG	AA	AA	INTERGENIC			
SNP_69642_A_33362	NW_004515826.1	scaffold319	33362	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69643_A_33368	NW_004515826.1	scaffold319	33368	CC	TT	TT	INTERGENIC			
SNP_69644_A_33656	NW_004515826.1	scaffold319	33656	AA	GG	GG	INTERGENIC			
SNP_69645_A_35428	NW_004515826.1	scaffold319	35428	TT	CC	CC	INTERGENIC			
SNP_69646_A_35488	NW_004515826.1	scaffold319	35488	TT	CC	CC	INTERGENIC			
SNP_69647_A_40703	NW_004515826.1	scaffold319	40703	TT	AA	AA	INTERGENIC			
SNP_69648_A_40712	NW_004515826.1	scaffold319	40712	TT	CC	CC	INTERGENIC			
SNP_69649_A_42904	NW_004515826.1	scaffold319	42904	TT	AA	AA	INTERGENIC			
SNP_69650_A_43222	NW_004515826.1	scaffold319	43222	GG	TT	TT	INTERGENIC			
SNP_69651_A_43298	NW_004515826.1	scaffold319	43298	TT	AA	AA	INTERGENIC			
SNP_69652_A_43318	NW_004515826.1	scaffold319	43318	AA	TT	TT	INTERGENIC			
SNP_69653_A_43354	NW_004515826.1	scaffold319	43354	GG	TT	TT	INTERGENIC			
SNP_69654_A_43355	NW_004515826.1	scaffold319	43355	TT	AA	AA	INTERGENIC			
SNP_69655_A_43360	NW_004515826.1	scaffold319	43360	AA	GG	GG	INTERGENIC			
SNP_69656_A_43388	NW_004515826.1	scaffold319	43388	TT	AA	AA	INTERGENIC			
SNP_69657_A_43620	NW_004515826.1	scaffold319	43620	AA	TT	TT	INTERGENIC			
SNP_69658_A_47028	NW_004515826.1	scaffold319	47028	TT	CC	CC	INTERGENIC			
SNP_69659_A_56000	NW_004515826.1	scaffold319	56000	AA	GG	GG	INTERGENIC			
SNP_69660_A_56547	NW_004515826.1	scaffold319	56547	CC	AA	AA	INTERGENIC			
SNP_69661_A_56611	NW_004515826.1	scaffold319	56611	TT	CC	CC	INTERGENIC			
SNP_69662_A_56612	NW_004515826.1	scaffold319	56612	TT	CC	CC	INTERGENIC			
SNP_69663_A_64	NW_004515827.1	scaffold321	64	CC	GG	GG	INTERGENIC			
SNP_69664_A_108	NW_004515827.1	scaffold321	108	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69665_A_174	NW_004515827.1	scaffold321	174	TT	CC	CC	INTERGENIC			
SNP_69666_A_201	NW_004515827.1	scaffold321	201	GG	AA	AA	INTERGENIC			
SNP_69667_A_208	NW_004515827.1	scaffold321	208	TT	AA	AA	INTERGENIC			
SNP_69668_A_6908	NW_004515827.1	scaffold321	6908	CC	GG	GG	INTERGENIC			
SNP_69669_A_9843	NW_004515827.1	scaffold321	9843	TT	AA	AA	INTERGENIC			
SNP_69670_A_9883	NW_004515827.1	scaffold321	9883	AA	GG	GG	INTERGENIC			
SNP_69671_A_9997	NW_004515827.1	scaffold321	9997	AA	GG	GG	INTERGENIC			
SNP_69672_A_10117	NW_004515827.1	scaffold321	10117	AA	GG	GG	INTERGENIC			
SNP_69673_A_13130	NW_004515827.1	scaffold321	13130	TT	CC	CC	INTERGENIC			
SNP_69674_A_13737	NW_004515827.1	scaffold321	13737	TT	GG	GG	INTERGENIC			
SNP_69675_A_14400	NW_004515827.1	scaffold321	14400	GG	CC	CC	INTERGENIC			
SNP_69676_A_14523	NW_004515827.1	scaffold321	14523	AA	GG	GG	INTERGENIC			
SNP_69677_A_27725	NW_004515827.1	scaffold321	27725	CC	TT	TT	INTERGENIC			
SNP_69678_A_27751	NW_004515827.1	scaffold321	27751	GG	AA	AA	INTERGENIC			
SNP_69679_A_27782	NW_004515827.1	scaffold321	27782	AA	CC	CC	INTERGENIC			
SNP_69680_A_27828	NW_004515827.1	scaffold321	27828	GG	AA	AA	INTERGENIC			
SNP_69681_A_27855	NW_004515827.1	scaffold321	27855	TT	AA	AA	INTERGENIC			
SNP_69682_A_27998	NW_004515827.1	scaffold321	27998	GG	AA	AA	INTERGENIC			
SNP_69683_A_28065	NW_004515827.1	scaffold321	28065	TT	CC	CC	INTERGENIC			
SNP_69684_A_28084	NW_004515827.1	scaffold321	28084	AA	GG	GG	INTERGENIC			
SNP_69685_A_28130	NW_004515827.1	scaffold321	28130	GG	CC	CC	INTERGENIC			
SNP_69686_A_33096	NW_004515827.1	scaffold321	33096	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69687_A_36125	NW_004515827.1	scaffold321	36125	CC	AA	AA	INTERGENIC			
SNP_69688_A_36756	NW_004515827.1	scaffold321	36756	AA	TT	TT	INTERGENIC			
SNP_69689_A_36829	NW_004515827.1	scaffold321	36829	GG	TT	TT	INTERGENIC			
SNP_69690_A_37605	NW_004515827.1	scaffold321	37605	GG	AA	AA	INTERGENIC			
SNP_69691_A_38274	NW_004515827.1	scaffold321	38274	TT	AA	AA	INTERGENIC			
SNP_69692_A_38315	NW_004515827.1	scaffold321	38315	CC	TT	TT	INTERGENIC			
SNP_69693_A_38316	NW_004515827.1	scaffold321	38316	CC	AA	AA	INTERGENIC			
SNP_69694_A_38360	NW_004515827.1	scaffold321	38360	AA	CC	CC	INTERGENIC			
SNP_69695_A_38400	NW_004515827.1	scaffold321	38400	CC	GG	GG	INTERGENIC			
SNP_69696_A_38424	NW_004515827.1	scaffold321	38424	GG	TT	TT	INTERGENIC			
SNP_69698_A_38539	NW_004515827.1	scaffold321	38539	TT	CC	CC	INTERGENIC			
SNP_69699_A_38641	NW_004515827.1	scaffold321	38641	GG	AA	AA	INTERGENIC			
SNP_69700_A_38706	NW_004515827.1	scaffold321	38706	TT	AA	AA	INTERGENIC			
SNP_69701_A_38760	NW_004515827.1	scaffold321	38760	TT	AA	AA	INTERGENIC			
SNP_69702_A_38778	NW_004515827.1	scaffold321	38778	AA	TT	TT	INTERGENIC			
SNP_69703_A_38785	NW_004515827.1	scaffold321	38785	GG	CC	CC	INTERGENIC			
SNP_69704_A_38788	NW_004515827.1	scaffold321	38788	GG	AA	AA	INTERGENIC			
SNP_69705_A_38795	NW_004515827.1	scaffold321	38795	AA	GG	GG	INTERGENIC			
SNP_69706_A_38852	NW_004515827.1	scaffold321	38852	AA	TT	TT	INTERGENIC			
SNP_69707_A_38914	NW_004515827.1	scaffold321	38914	GG	AA	AA	INTERGENIC			
SNP_69708_A_38983	NW_004515827.1	scaffold321	38983	GG	AA	AA	INTERGENIC			
SNP_69709_A_39068	NW_004515827.1	scaffold321	39068	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69710_A_39085	NW_004515827.1	scaffold321	39085	AA	GG	GG	INTERGENIC			
SNP_69711_A_39109	NW_004515827.1	scaffold321	39109	CC	AA	AA	INTERGENIC			
SNP_69712_A_39144	NW_004515827.1	scaffold321	39144	GG	AA	AA	INTERGENIC			
SNP_69713_A_39290	NW_004515827.1	scaffold321	39290	AA	CC	CC	INTERGENIC			
SNP_69714_A_39328	NW_004515827.1	scaffold321	39328	GG	AA	AA	INTERGENIC			
SNP_69715_A_39340	NW_004515827.1	scaffold321	39340	TT	CC	CC	INTERGENIC			
SNP_69716_A_39372	NW_004515827.1	scaffold321	39372	AA	GG	GG	INTERGENIC			
SNP_69717_A_39383	NW_004515827.1	scaffold321	39383	AA	GG	GG	INTERGENIC			
SNP_69718_A_43928	NW_004515827.1	scaffold321	43928	GG	TT	TT	INTERGENIC			
SNP_69719_A_43929	NW_004515827.1	scaffold321	43929	AA	GG	GG	INTERGENIC			
SNP_69720_A_43941	NW_004515827.1	scaffold321	43941	CC	AA	AA	INTERGENIC			
SNP_69721_A_44357	NW_004515827.1	scaffold321	44357	AA	TT	TT	INTERGENIC			
SNP_69722_A_51576	NW_004515827.1	scaffold321	51576	AA	CC	CC	INTERGENIC			
SNP_69723_A_54141	NW_004515827.1	scaffold321	54141	CC	TT	TT	INTERGENIC			
SNP_69724_A_58465	NW_004515827.1	scaffold321	58465	GG	AA	AA	INTERGENIC			
SNP_69725_A_58470	NW_004515827.1	scaffold321	58470	GG	TT	TT	INTERGENIC			
SNP_69726_A_58855	NW_004515827.1	scaffold321	58855	CC	TT	TT	INTERGENIC			
SNP_69727_A_58865	NW_004515827.1	scaffold321	58865	CC	TT	TT	INTERGENIC			
SNP_69728_A_66718	NW_004515827.1	scaffold321	66718	AA	GG	GG	INTERGENIC			
SNP_69729_A_66730	NW_004515827.1	scaffold321	66730	AA	GG	GG	INTERGENIC			
SNP_69730_A_67715	NW_004515827.1	scaffold321	67715	AA	GG	GG	INTERGENIC			
SNP_69731_A_67721	NW_004515827.1	scaffold321	67721	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69732_A_67849	NW_004515827.1	scaffold321	67849	CC	TT	TT	INTERGENIC			
SNP_69733_A_67869	NW_004515827.1	scaffold321	67869	CC	TT	TT	INTERGENIC			
SNP_69735_A_73063	NW_004515827.1	scaffold321	73063	CC	AA	AA	INTERGENIC			
SNP_69737_A_81060	NW_004515827.1	scaffold321	81060	AA	CC	CC	INTERGENIC			
SNP_69738_A_81153	NW_004515827.1	scaffold321	81153	TT	CC	CC	INTERGENIC			
SNP_69739_A_81376	NW_004515827.1	scaffold321	81376	AA	GG	GG	INTERGENIC			
SNP_69740_A_83237	NW_004515827.1	scaffold321	83237	AA	TT	TT	INTERGENIC			
SNP_69741_A_83306	NW_004515827.1	scaffold321	83306	AA	GG	GG	INTERGENIC			
SNP_69742_A_83311	NW_004515827.1	scaffold321	83311	CC	TT	TT	INTERGENIC			
SNP_69743_A_83361	NW_004515827.1	scaffold321	83361	CC	GG	GG	INTERGENIC			
SNP_69744_A_83362	NW_004515827.1	scaffold321	83362	AA	CC	CC	INTERGENIC			
SNP_69745_A_83499	NW_004515827.1	scaffold321	83499	GG	AA	AA	INTERGENIC			
SNP_69746_A_83866	NW_004515827.1	scaffold321	83866	AA	CC	CC	INTERGENIC			
SNP_69747_A_2482	NW_004515828.1	scaffold322	2482	TT	GG	GG	INTERGENIC			
SNP_69749_A_4212	NW_004515828.1	scaffold322	4212	AA	GG	GG	INTERGENIC			
SNP_69750_A_26972	NW_004515828.1	scaffold322	26972	TT	AA	AA	INTERGENIC			
SNP_69751_A_27294	NW_004515828.1	scaffold322	27294	TT	CC	CC	INTERGENIC			
SNP_69752_A_27950	NW_004515828.1	scaffold322	27950	TT	GG	GG	INTERGENIC			
SNP_69753_A_30533	NW_004515828.1	scaffold322	30533	TT	AA	AA	INTERGENIC			
SNP_69755_A_37742	NW_004515828.1	scaffold322	37742	CC	GG	GG	INTERGENIC			
SNP_69756_A_38104	NW_004515828.1	scaffold322	38104	GG	TT	TT	INTERGENIC			
SNP_69757_A_38108	NW_004515828.1	scaffold322	38108	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69758_A_54079	NW_004515828.1	scaffold322	54079	CC	GG	GG	INTERGENIC			
SNP_69759_A_54097	NW_004515828.1	scaffold322	54097	GG	CC	CC	INTERGENIC			
SNP_69760_A_55475	NW_004515828.1	scaffold322	55475	GG	AA	AA	INTERGENIC			
SNP_69761_A_55479	NW_004515828.1	scaffold322	55479	GG	TT	TT	INTERGENIC			
SNP_69763_A_55823	NW_004515828.1	scaffold322	55823	TT	CC	CC	INTERGENIC			
SNP_69765_A_81251	NW_004515828.1	scaffold322	81251	GG	AA	AA	INTERGENIC			
SNP_69767_A_85541	NW_004515828.1	scaffold322	85541	AA	CC	CC	INTERGENIC			
SNP_69768_A_86908	NW_004515828.1	scaffold322	86908	TT	CC	CC	INTERGENIC			
SNP_69769_A_87115	NW_004515828.1	scaffold322	87115	TT	CC	CC	INTERGENIC			
SNP_69770_A_87159	NW_004515828.1	scaffold322	87159	GG	AA	AA	INTERGENIC			
SNP_69771_A_89196	NW_004515828.1	scaffold322	89196	GG	TT	TT	INTERGENIC			
SNP_69772_A_89248	NW_004515828.1	scaffold322	89248	CC	TT	TT	INTERGENIC			
SNP_69773_A_90105	NW_004515828.1	scaffold322	90105	TT	GG	GG	INTERGENIC			
SNP_69774_A_99548	NW_004515828.1	scaffold322	99548	AA	GG	GG	INTERGENIC			
SNP_69775_A_151531	NW_004515828.1	scaffold322	151531	CC	AA	AA	INTERGENIC			
SNP_69776_A_151541	NW_004515828.1	scaffold322	151541	AA	CC	CC	INTERGENIC			
SNP_69777_A_151547	NW_004515828.1	scaffold322	151547	TT	GG	GG	INTERGENIC			
SNP_69778_A_151580	NW_004515828.1	scaffold322	151580	AA	GG	GG	INTERGENIC			
SNP_69779_A_151634	NW_004515828.1	scaffold322	151634	GG	AA	AA	INTERGENIC			
SNP_69780_A_151881	NW_004515828.1	scaffold322	151881	GG	AA	AA	INTERGENIC			
SNP_69781_A_151905	NW_004515828.1	scaffold322	151905	TT	CC	CC	INTERGENIC			
SNP_69782_A_151957	NW_004515828.1	scaffold322	151957	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69783_A_152024	NW_004515828.1	scaffold322	152024	CC	AA	AA	INTERGENIC			
SNP_69784_A_152036	NW_004515828.1	scaffold322	152036	CC	GG	GG	INTERGENIC			
SNP_69785_A_152104	NW_004515828.1	scaffold322	152104	TT	CC	CC	INTERGENIC			
SNP_69786_A_152133	NW_004515828.1	scaffold322	152133	AA	CC	CC	INTERGENIC			
SNP_69787_A_152162	NW_004515828.1	scaffold322	152162	GG	CC	CC	INTERGENIC			
SNP_69788_A_152215	NW_004515828.1	scaffold322	152215	AA	TT	TT	INTERGENIC			
SNP_69789_A_152222	NW_004515828.1	scaffold322	152222	AA	GG	GG	INTERGENIC			
SNP_69790_A_162284	NW_004515828.1	scaffold322	162284	GG	TT	TT	INTERGENIC			
SNP_69791_A_168595	NW_004515828.1	scaffold322	168595	TT	AA	AA	INTERGENIC			
SNP_69792_A_168609	NW_004515828.1	scaffold322	168609	TT	CC	CC	INTERGENIC			
SNP_69793_A_168613	NW_004515828.1	scaffold322	168613	AA	CC	CC	INTERGENIC			
SNP_69794_A_168639	NW_004515828.1	scaffold322	168639	GG	AA	AA	INTERGENIC			
SNP_69795_A_168751	NW_004515828.1	scaffold322	168751	CC	AA	AA	INTERGENIC			
SNP_69796_A_168786	NW_004515828.1	scaffold322	168786	TT	CC	CC	INTERGENIC			
SNP_69797_A_168889	NW_004515828.1	scaffold322	168889	GG	AA	AA	INTERGENIC			
SNP_69798_A_168919	NW_004515828.1	scaffold322	168919	AA	TT	TT	INTERGENIC			
SNP_69799_A_169003	NW_004515828.1	scaffold322	169003	GG	CC	CC	INTERGENIC			
SNP_69800_A_169006	NW_004515828.1	scaffold322	169006	TT	CC	CC	INTERGENIC			
SNP_69801_A_169019	NW_004515828.1	scaffold322	169019	TT	AA	AA	INTERGENIC			
SNP_69802_A_169059	NW_004515828.1	scaffold322	169059	AA	TT	TT	INTERGENIC			
SNP_69803_A_169072	NW_004515828.1	scaffold322	169072	TT	CC	CC	INTERGENIC			
SNP_69804_A_169105	NW_004515828.1	scaffold322	169105	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69805_A_169113	NW_004515828.1	scaffold322	169113	GG	CC	CC	INTERGENIC			
SNP_69806_A_169116	NW_004515828.1	scaffold322	169116	CC	GG	GG	INTERGENIC			
SNP_69807_A_169475	NW_004515828.1	scaffold322	169475	GG	AA	AA	INTERGENIC			
SNP_69808_A_170041	NW_004515828.1	scaffold322	170041	TT	CC	CC	INTERGENIC			
SNP_69809_A_170476	NW_004515828.1	scaffold322	170476	TT	CC	CC	INTERGENIC			
SNP_69810_A_174517	NW_004515828.1	scaffold322	174517	GG	CC	CC	INTERGENIC			
SNP_69811_A_174825	NW_004515828.1	scaffold322	174825	TT	CC	CC	INTERGENIC			
SNP_69812_A_174832	NW_004515828.1	scaffold322	174832	GG	AA	AA	INTERGENIC			
SNP_69813_A_150	NW_004515829.1	scaffold323	150	CC	TT	TT	INTERGENIC			
SNP_69814_A_2071	NW_004515829.1	scaffold323	2071	CC	AA	AA	INTERGENIC			
SNP_69815_A_2080	NW_004515829.1	scaffold323	2080	CC	GG	GG	INTERGENIC			
SNP_69816_A_2196	NW_004515829.1	scaffold323	2196	TT	CC	CC	INTERGENIC			
SNP_69817_A_2207	NW_004515829.1	scaffold323	2207	TT	GG	GG	INTERGENIC			
SNP_69818_A_2243	NW_004515829.1	scaffold323	2243	AA	CC	CC	INTERGENIC			
SNP_69819_A_2258	NW_004515829.1	scaffold323	2258	TT	CC	CC	INTERGENIC			
SNP_69820_A_2311	NW_004515829.1	scaffold323	2311	TT	AA	AA	INTERGENIC			
SNP_69821_A_2329	NW_004515829.1	scaffold323	2329	TT	AA	AA	INTERGENIC			
SNP_69822_A_2374	NW_004515829.1	scaffold323	2374	TT	AA	AA	INTERGENIC			
SNP_69823_A_2559	NW_004515829.1	scaffold323	2559	TT	CC	CC	INTERGENIC			
SNP_69824_A_2590	NW_004515829.1	scaffold323	2590	AA	GG	GG	INTERGENIC			
SNP_69825_A_7933	NW_004515829.1	scaffold323	7933	TT	CC	CC	INTERGENIC			
SNP_69826_A_11838	NW_004515829.1	scaffold323	11838	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69827_A_17510	NW_004515829.1	scaffold323	17510	CC	TT	TT	INTERGENIC			
SNP_69828_A_29592	NW_004515829.1	scaffold323	29592	GG	TT	TT	INTERGENIC			
SNP_69829_A_45913	NW_004515829.1	scaffold323	45913	GG	TT	TT	INTERGENIC			
SNP_69830_A_47439	NW_004515829.1	scaffold323	47439	AA	CC	CC	INTERGENIC			
SNP_69831_A_53966	NW_004515829.1	scaffold323	53966	TT	GG	GG	INTERGENIC			
SNP_69832_A_58187	NW_004515829.1	scaffold323	58187	AA	TT	TT	INTERGENIC			
SNP_69833_A_59301	NW_004515829.1	scaffold323	59301	TT	AA	AA	INTERGENIC			
SNP_69834_A_64349	NW_004515829.1	scaffold323	64349	TT	AA	AA	INTERGENIC			
SNP_69836_A_3840	NW_004515830.1	scaffold324	3840	GG	AA	AA	INTERGENIC			
SNP_69837_A_3843	NW_004515830.1	scaffold324	3843	AA	GG	GG	INTERGENIC			
SNP_69838_A_6319	NW_004515830.1	scaffold324	6319	AA	CC	CC	INTERGENIC			
SNP_69839_A_10722	NW_004515830.1	scaffold324	10722	TT	GG	GG	INTERGENIC			
SNP_69840_A_19694	NW_004515830.1	scaffold324	19694	AA	CC	CC	INTERGENIC			
SNP_69841_A_19748	NW_004515830.1	scaffold324	19748	TT	AA	AA	INTERGENIC			
SNP_69842_A_19754	NW_004515830.1	scaffold324	19754	AA	GG	GG	INTERGENIC			
SNP_69843_A_20051	NW_004515830.1	scaffold324	20051	CC	TT	TT	INTERGENIC			
SNP_69844_A_24189	NW_004515830.1	scaffold324	24189	AA	TT	TT	INTERGENIC			
SNP_69845_A_24380	NW_004515830.1	scaffold324	24380	CC	AA	AA	INTERGENIC			
SNP_69846_A_26296	NW_004515830.1	scaffold324	26296	GG	AA	AA	INTERGENIC			
SNP_69847_A_26871	NW_004515830.1	scaffold324	26871	TT	AA	AA	INTERGENIC			
SNP_69848_A_26931	NW_004515830.1	scaffold324	26931	TT	CC	CC	INTERGENIC			
SNP_69849_A_27306	NW_004515830.1	scaffold324	27306	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69850_A_27345	NW_004515830.1	scaffold324	27345	AA	CC	CC	INTERGENIC			
SNP_69851_A_27716	NW_004515830.1	scaffold324	27716	TT	CC	CC	INTERGENIC			
SNP_69852_A_27746	NW_004515830.1	scaffold324	27746	GG	AA	AA	INTERGENIC			
SNP_69853_A_27966	NW_004515830.1	scaffold324	27966	GG	AA	AA	INTERGENIC			
SNP_69854_A_34003	NW_004515830.1	scaffold324	34003	CC	TT	TT	INTERGENIC			
SNP_69855_A_34259	NW_004515830.1	scaffold324	34259	TT	AA	AA	INTERGENIC			
SNP_69856_A_34290	NW_004515830.1	scaffold324	34290	CC	TT	TT	INTERGENIC			
SNP_69857_A_34350	NW_004515830.1	scaffold324	34350	TT	CC	CC	INTERGENIC			
SNP_69858_A_45372	NW_004515830.1	scaffold324	45372	AA	GG	GG	INTERGENIC			
SNP_69859_A_45589	NW_004515830.1	scaffold324	45589	AA	GG	GG	INTERGENIC			
SNP_69860_A_45599	NW_004515830.1	scaffold324	45599	TT	GG	GG	INTERGENIC			
SNP_69861_A_53186	NW_004515830.1	scaffold324	53186	TT	CC	CC	INTERGENIC			
SNP_69862_A_58589	NW_004515830.1	scaffold324	58589	GG	AA	AA	INTERGENIC			
SNP_69863_A_58689	NW_004515830.1	scaffold324	58689	GG	CC	CC	INTERGENIC			
SNP_69864_A_59469	NW_004515830.1	scaffold324	59469	GG	TT	TT	INTERGENIC			
SNP_69865_A_59605	NW_004515830.1	scaffold324	59605	CC	TT	TT	INTERGENIC			
SNP_69866_A_59700	NW_004515830.1	scaffold324	59700	CC	TT	TT	INTERGENIC			
SNP_69867_A_69163	NW_004515830.1	scaffold324	69163	TT	AA	AA	INTERGENIC			
SNP_69868_A_77931	NW_004515830.1	scaffold324	77931	AA	GG	GG	INTERGENIC			
SNP_69869_A_81184	NW_004515830.1	scaffold324	81184	CC	TT	TT	INTERGENIC			
SNP_69870_A_85922	NW_004515830.1	scaffold324	85922	AA	CC	CC	INTERGENIC			
SNP_69871_A_85958	NW_004515830.1	scaffold324	85958	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69872_A_85988	NW_004515830.1	scaffold324	85988	CC	AA	AA	INTERGENIC			
SNP_69873_A_86008	NW_004515830.1	scaffold324	86008	AA	GG	GG	INTERGENIC			
SNP_69874_A_86041	NW_004515830.1	scaffold324	86041	GG	AA	AA	INTERGENIC			
SNP_69876_A_95908	NW_004515830.1	scaffold324	95908	AA	TT	TT	INTERGENIC			
SNP_69877_A_96374	NW_004515830.1	scaffold324	96374	GG	AA	AA	INTERGENIC			
SNP_69878_A_134028	NW_004515830.1	scaffold324	134028	CC	AA	AA	INTERGENIC			
SNP_69879_A_134063	NW_004515830.1	scaffold324	134063	TT	AA	AA	INTERGENIC			
SNP_69880_A_137944	NW_004515830.1	scaffold324	137944	CC	AA	AA	DRR	101510347	uncharacterized LOC101510347	
SNP_69881_A_137948	NW_004515830.1	scaffold324	137948	TT	GG	GG	DRR	101510347	uncharacterized LOC101510347	
SNP_69883_A_148914	NW_004515830.1	scaffold324	148914	TT	AA	AA	INTERGENIC			
SNP_69884_A_164918	NW_004515830.1	scaffold324	164918	TT	CC	CC	INTERGENIC			
SNP_69885_A_165726	NW_004515830.1	scaffold324	165726	GG	AA	AA	INTERGENIC			
SNP_69886_A_180435	NW_004515830.1	scaffold324	180435	AA	CC	CC	INTERGENIC			
SNP_69887_A_185373	NW_004515830.1	scaffold324	185373	TT	GG	GG	INTERGENIC			
SNP_69888_A_219771	NW_004515830.1	scaffold324	219771	GG	TT	TT	INTERGENIC			
SNP_69889_A_224465	NW_004515830.1	scaffold324	224465	TT	CC	CC	INTERGENIC			
SNP_69890_A_224501	NW_004515830.1	scaffold324	224501	AA	GG	GG	INTERGENIC			
SNP_69891_A_243196	NW_004515830.1	scaffold324	243196	GG	AA	AA	INTERGENIC			
SNP_69892_A_244074	NW_004515830.1	scaffold324	244074	GG	AA	AA	INTERGENIC			
SNP_69893_A_269518	NW_004515830.1	scaffold324	269518	GG	AA	AA	INTERGENIC			
SNP_69894_A_277179	NW_004515830.1	scaffold324	277179	AA	CC	CC	INTERGENIC			
SNP_69895_A_279729	NW_004515830.1	scaffold324	279729	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69896_A_280030	NW_004515830.1	scaffold324	280030	CC	AA	AA	INTERGENIC			
SNP_69897_A_280058	NW_004515830.1	scaffold324	280058	AA	GG	GG	INTERGENIC			
SNP_69898_A_299259	NW_004515830.1	scaffold324	299259	AA	GG	GG	INTERGENIC			
SNP_69899_A_299265	NW_004515830.1	scaffold324	299265	AA	GG	GG	INTERGENIC			
SNP_69900_A_308309	NW_004515830.1	scaffold324	308309	CC	AA	AA	INTERGENIC			
SNP_69901_A_308310	NW_004515830.1	scaffold324	308310	AA	GG	GG	INTERGENIC			
SNP_69902_A_308312	NW_004515830.1	scaffold324	308312	TT	CC	CC	INTERGENIC			
SNP_69903_A_310287	NW_004515830.1	scaffold324	310287	CC	AA	AA	INTERGENIC			
SNP_69904_A_312275	NW_004515830.1	scaffold324	312275	AA	CC	CC	INTERGENIC			
SNP_69905_A_312463	NW_004515830.1	scaffold324	312463	CC	GG	GG	INTERGENIC			
SNP_69906_A_312530	NW_004515830.1	scaffold324	312530	AA	GG	GG	INTERGENIC			
SNP_69907_A_312538	NW_004515830.1	scaffold324	312538	TT	CC	CC	INTERGENIC			
SNP_69908_A_344042	NW_004515830.1	scaffold324	344042	AA	GG	GG	INTERGENIC			
SNP_69909_A_344044	NW_004515830.1	scaffold324	344044	AA	TT	TT	INTERGENIC			
SNP_69910_A_347342	NW_004515830.1	scaffold324	347342	AA	TT	TT	INTERGENIC			
SNP_69911_A_347368	NW_004515830.1	scaffold324	347368	GG	CC	CC	INTERGENIC			
SNP_69912_A_347841	NW_004515830.1	scaffold324	347841	TT	GG	GG	INTERGENIC			
SNP_69913_A_357307	NW_004515830.1	scaffold324	357307	GG	AA	AA	INTERGENIC			
SNP_69914_A_357317	NW_004515830.1	scaffold324	357317	AA	CC	CC	INTERGENIC			
SNP_69915_A_357321	NW_004515830.1	scaffold324	357321	GG	AA	AA	INTERGENIC			
SNP_69916_A_357322	NW_004515830.1	scaffold324	357322	TT	CC	CC	INTERGENIC			
SNP_69917_A_367639	NW_004515830.1	scaffold324	367639	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69918_A_371055	NW_004515830.1	scaffold324	371055	TT	GG	GG	INTERGENIC			
SNP_69919_A_371111	NW_004515830.1	scaffold324	371111	AA	CC	CC	INTERGENIC			
SNP_69920_A_371178	NW_004515830.1	scaffold324	371178	TT	AA	AA	INTERGENIC			
SNP_69921_A_371243	NW_004515830.1	scaffold324	371243	TT	CC	CC	INTERGENIC			
SNP_69922_A_371466	NW_004515830.1	scaffold324	371466	AA	GG	GG	INTERGENIC			
SNP_69923_A_372687	NW_004515830.1	scaffold324	372687	TT	CC	CC	INTERGENIC			
SNP_69924_A_374851	NW_004515830.1	scaffold324	374851	AA	GG	GG	INTERGENIC			
SNP_69925_A_377276	NW_004515830.1	scaffold324	377276	GG	AA	AA	INTERGENIC			
SNP_69926_A_383416	NW_004515830.1	scaffold324	383416	AA	GG	GG	INTERGENIC			
SNP_69927_A_383440	NW_004515830.1	scaffold324	383440	CC	TT	TT	INTERGENIC			
SNP_69928_A_383514	NW_004515830.1	scaffold324	383514	AA	GG	GG	INTERGENIC			
SNP_69929_A_383528	NW_004515830.1	scaffold324	383528	CC	GG	GG	INTERGENIC			
SNP_69930_A_383541	NW_004515830.1	scaffold324	383541	AA	GG	GG	INTERGENIC			
SNP_69931_A_383552	NW_004515830.1	scaffold324	383552	GG	AA	AA	INTERGENIC			
SNP_69932_A_385526	NW_004515830.1	scaffold324	385526	AA	TT	TT	INTERGENIC			
SNP_69933_A_386747	NW_004515830.1	scaffold324	386747	CC	GG	GG	INTERGENIC			
SNP_69934_A_386788	NW_004515830.1	scaffold324	386788	CC	AA	AA	INTERGENIC			
SNP_69935_A_387185	NW_004515830.1	scaffold324	387185	CC	TT	TT	INTERGENIC			
SNP_69936_A_387209	NW_004515830.1	scaffold324	387209	TT	GG	GG	INTERGENIC			
SNP_69937_A_387315	NW_004515830.1	scaffold324	387315	AA	GG	GG	INTERGENIC			
SNP_69938_A_387539	NW_004515830.1	scaffold324	387539	TT	CC	CC	INTERGENIC			
SNP_69939_A_387667	NW_004515830.1	scaffold324	387667	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69940_A_387687	NW_004515830.1	scaffold324	387687	GG	AA	AA	INTERGENIC			
SNP_69941_A_387733	NW_004515830.1	scaffold324	387733	GG	AA	AA	INTERGENIC			
SNP_69942_A_387788	NW_004515830.1	scaffold324	387788	GG	TT	TT	INTERGENIC			
SNP_69943_A_387807	NW_004515830.1	scaffold324	387807	AA	CC	CC	INTERGENIC			
SNP_69944_A_390354	NW_004515830.1	scaffold324	390354	CC	TT	TT	INTERGENIC			
SNP_69945_A_393437	NW_004515830.1	scaffold324	393437	TT	CC	CC	INTERGENIC			
SNP_69946_A_393472	NW_004515830.1	scaffold324	393472	GG	AA	AA	INTERGENIC			
SNP_69947_A_406178	NW_004515830.1	scaffold324	406178	AA	GG	GG	INTERGENIC			
SNP_69948_A_411675	NW_004515830.1	scaffold324	411675	GG	AA	AA	INTERGENIC			
SNP_69949_A_414567	NW_004515830.1	scaffold324	414567	GG	TT	TT	INTERGENIC			
SNP_69950_A_417383	NW_004515830.1	scaffold324	417383	CC	AA	AA	INTERGENIC			
SNP_69951_A_427921	NW_004515830.1	scaffold324	427921	AA	GG	CC	INTERGENIC			
SNP_69952_A_430602	NW_004515830.1	scaffold324	430602	AA	GG	GG	INTERGENIC			
SNP_69953_A_450805	NW_004515830.1	scaffold324	450805	GG	AA	AA	INTERGENIC			
SNP_69954_A_451240	NW_004515830.1	scaffold324	451240	AA	CC	CC	INTERGENIC			
SNP_69955_A_451251	NW_004515830.1	scaffold324	451251	AA	GG	GG	INTERGENIC			
SNP_69956_A_451252	NW_004515830.1	scaffold324	451252	AA	GG	GG	INTERGENIC			
SNP_69957_A_457108	NW_004515830.1	scaffold324	457108	AA	CC	CC	INTERGENIC			
SNP_69958_A_457127	NW_004515830.1	scaffold324	457127	TT	CC	CC	INTERGENIC			
SNP_69959_A_457252	NW_004515830.1	scaffold324	457252	GG	CC	CC	INTERGENIC			
SNP_69960_A_457514	NW_004515830.1	scaffold324	457514	TT	GG	GG	INTERGENIC			
SNP_69961_A_1633	NW_004515831.1	scaffold325	1633	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69962_A_1657	NW_004515831.1	scaffold325	1657	AA	CC	CC	INTERGENIC			
SNP_69963_A_1664	NW_004515831.1	scaffold325	1664	CC	TT	TT	INTERGENIC			
SNP_69964_A_2417	NW_004515831.1	scaffold325	2417	CC	AA	AA	INTERGENIC			
SNP_69965_A_2423	NW_004515831.1	scaffold325	2423	CC	TT	TT	INTERGENIC			
SNP_69966_A_5323	NW_004515831.1	scaffold325	5323	TT	AA	AA	INTERGENIC			
SNP_69967_A_5355	NW_004515831.1	scaffold325	5355	GG	AA	AA	INTERGENIC			
SNP_69968_A_64	NW_004515832.1	scaffold326	64	TT	GG	GG	INTERGENIC			
SNP_69969_A_107	NW_004515832.1	scaffold326	107	TT	CC	CC	INTERGENIC			
SNP_69970_A_12139	NW_004515834.1	scaffold328	12139	TT	GG	GG	INTERGENIC			
SNP_69971_A_12151	NW_004515834.1	scaffold328	12151	CC	GG	GG	INTERGENIC			
SNP_69972_A_12233	NW_004515834.1	scaffold328	12233	TT	AA	AA	INTERGENIC			
SNP_69973_A_12260	NW_004515834.1	scaffold328	12260	AA	GG	GG	INTERGENIC			
SNP_69974_A_12278	NW_004515834.1	scaffold328	12278	CC	TT	TT	INTERGENIC			
SNP_69975_A_12289	NW_004515834.1	scaffold328	12289	GG	TT	TT	INTERGENIC			
SNP_69976_A_12364	NW_004515834.1	scaffold328	12364	CC	AA	AA	INTERGENIC			
SNP_69977_A_12666	NW_004515834.1	scaffold328	12666	TT	AA	AA	INTERGENIC			
SNP_69978_A_12667	NW_004515834.1	scaffold328	12667	TT	GG	GG	INTERGENIC			
SNP_69979_A_12684	NW_004515834.1	scaffold328	12684	AA	GG	GG	INTERGENIC			
SNP_69980_A_2330	NW_004515835.1	scaffold330	2330	GG	AA	AA	INTERGENIC			
SNP_69981_A_2379	NW_004515835.1	scaffold330	2379	GG	AA	AA	INTERGENIC			
SNP_69982_A_2397	NW_004515835.1	scaffold330	2397	GG	CC	CC	INTERGENIC			
SNP_69983_A_2607	NW_004515835.1	scaffold330	2607	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_69984_A_2788	NW_004515835.1	scaffold330	2788	AA	TT	TT	INTERGENIC			
SNP_69985_A_2818	NW_004515835.1	scaffold330	2818	CC	GG	GG	INTERGENIC			
SNP_69986_A_2907	NW_004515835.1	scaffold330	2907	CC	TT	TT	INTERGENIC			
SNP_69987_A_2924	NW_004515835.1	scaffold330	2924	AA	TT	GG	INTERGENIC			
SNP_69988_A_2964	NW_004515835.1	scaffold330	2964	AA	GG	GG	INTERGENIC			
SNP_69989_A_7668	NW_004515835.1	scaffold330	7668	AA	GG	GG	INTERGENIC			
SNP_69990_A_8040	NW_004515835.1	scaffold330	8040	TT	CC	CC	INTERGENIC			
SNP_69991_A_8053	NW_004515835.1	scaffold330	8053	AA	CC	CC	INTERGENIC			
SNP_69992_A_9059	NW_004515835.1	scaffold330	9059	AA	TT	TT	INTERGENIC			
SNP_69993_A_9951	NW_004515835.1	scaffold330	9951	TT	CC	CC	INTERGENIC			
SNP_69994_A_9963	NW_004515835.1	scaffold330	9963	GG	CC	CC	INTERGENIC			
SNP_69996_A_10224	NW_004515835.1	scaffold330	10224	CC	GG	GG	INTERGENIC			
SNP_69997_A_10244	NW_004515835.1	scaffold330	10244	CC	TT	TT	INTERGENIC			
SNP_69998_A_10247	NW_004515835.1	scaffold330	10247	TT	GG	GG	INTERGENIC			
SNP_69999_A_10257	NW_004515835.1	scaffold330	10257	AA	TT	TT	INTERGENIC			
SNP_70000_A_10268	NW_004515835.1	scaffold330	10268	CC	TT	TT	INTERGENIC			
SNP_70001_A_10294	NW_004515835.1	scaffold330	10294	CC	TT	TT	INTERGENIC			
SNP_70002_A_10296	NW_004515835.1	scaffold330	10296	GG	CC	CC	INTERGENIC			
SNP_70004_A_10603	NW_004515835.1	scaffold330	10603	AA	GG	GG	INTERGENIC			
SNP_70005_A_10606	NW_004515835.1	scaffold330	10606	GG	TT	TT	INTERGENIC			
SNP_70006_A_10622	NW_004515835.1	scaffold330	10622	AA	TT	TT	INTERGENIC			
SNP_70008_A_726	NW_004515836.1	scaffold331	726	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70009_A_760	NW_004515836.1	scaffold331	760	AA	CC	CC	INTERGENIC			
SNP_70010_A_780	NW_004515836.1	scaffold331	780	AA	GG	GG	INTERGENIC			
SNP_70011_A_834	NW_004515836.1	scaffold331	834	AA	TT	TT	INTERGENIC			
SNP_70012_A_1237	NW_004515836.1	scaffold331	1237	GG	AA	AA	INTERGENIC			
SNP_70013_A_5222	NW_004515836.1	scaffold331	5222	TT	AA	AA	INTERGENIC			
SNP_70014_A_17256	NW_004515836.1	scaffold331	17256	AA	GG	GG	INTERGENIC			
SNP_70015_A_20955	NW_004515836.1	scaffold331	20955	TT	CC	CC	INTERGENIC			
SNP_70016_A_21027	NW_004515836.1	scaffold331	21027	TT	GG	GG	INTERGENIC			
SNP_70017_A_25912	NW_004515836.1	scaffold331	25912	TT	GG	GG	INTERGENIC			
SNP_70018_A_34416	NW_004515836.1	scaffold331	34416	AA	TT	TT	INTERGENIC			
SNP_70019_A_38462	NW_004515836.1	scaffold331	38462	GG	CC	CC	INTERGENIC			
SNP_70020_A_43695	NW_004515836.1	scaffold331	43695	CC	TT	TT	INTERGENIC			
SNP_70021_A_43957	NW_004515836.1	scaffold331	43957	TT	CC	CC	INTERGENIC			
SNP_70022_A_43968	NW_004515836.1	scaffold331	43968	GG	AA	AA	INTERGENIC			
SNP_70023_A_44027	NW_004515836.1	scaffold331	44027	TT	GG	GG	INTERGENIC			
SNP_70024_A_44057	NW_004515836.1	scaffold331	44057	AA	TT	TT	INTERGENIC			
SNP_70025_A_50228	NW_004515836.1	scaffold331	50228	TT	CC	CC	INTERGENIC			
SNP_70026_A_50994	NW_004515836.1	scaffold331	50994	CC	TT	TT	INTERGENIC			
SNP_70027_A_59101	NW_004515836.1	scaffold331	59101	GG	TT	TT	INTERGENIC			
SNP_70028_A_62227	NW_004515836.1	scaffold331	62227	AA	CC	CC	INTERGENIC			
SNP_70029_A_62233	NW_004515836.1	scaffold331	62233	TT	CC	CC	INTERGENIC			
SNP_70030_A_104651	NW_004515836.1	scaffold331	104651	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70031_A_112124	NW_004515836.1	scaffold331	112124	GG	AA	AA	URR	101512922	Unknown function
SNP_70032_A_129444	NW_004515836.1	scaffold331	129444	AA	GG	GG	INTERGENIC		
SNP_70033_A_129494	NW_004515836.1	scaffold331	129494	CC	TT	TT	INTERGENIC		
SNP_70034_A_129758	NW_004515836.1	scaffold331	129758	CC	TT	TT	INTERGENIC		
SNP_70037_A_219666	NW_004515836.1	scaffold331	219666	AA	GG	GG	INTERGENIC		
SNP_70038_A_220264	NW_004515836.1	scaffold331	220264	GG	AA	AA	INTERGENIC		
SNP_70039_A_221459	NW_004515836.1	scaffold331	221459	GG	TT	TT	INTERGENIC		
SNP_70040_A_243161	NW_004515836.1	scaffold331	243161	CC	AA	AA	INTRON	101512285	mitogen-activated protein kinase 15
SNP_70041_A_243169	NW_004515836.1	scaffold331	243169	GG	AA	AA	INTRON	101512285	mitogen-activated protein kinase 15
SNP_70042_A_48648	NW_004515837.1	scaffold332	48648	TT	CC	CC	INTERGENIC		
SNP_70043_A_48665	NW_004515837.1	scaffold332	48665	TT	CC	CC	INTERGENIC		
SNP_70044_A_48731	NW_004515837.1	scaffold332	48731	AA	GG	GG	INTERGENIC		
SNP_70045_A_48874	NW_004515837.1	scaffold332	48874	TT	CC	CC	INTERGENIC		
SNP_70046_A_48919	NW_004515837.1	scaffold332	48919	AA	GG	GG	INTERGENIC		
SNP_70047_A_51816	NW_004515837.1	scaffold332	51816	AA	GG	GG	INTERGENIC		
SNP_70048_A_51982	NW_004515837.1	scaffold332	51982	TT	GG	GG	INTERGENIC		
SNP_70049_A_51990	NW_004515837.1	scaffold332	51990	TT	GG	GG	INTERGENIC		
SNP_70050_A_52697	NW_004515837.1	scaffold332	52697	TT	GG	GG	INTERGENIC		
SNP_70051_A_52836	NW_004515837.1	scaffold332	52836	TT	CC	CC	INTERGENIC		
SNP_70052_A_67850	NW_004515837.1	scaffold332	67850	GG	TT	TT	INTRON	101513888	phosphoglycerate mutase-like protein 1
SNP_70053_A_154150	NW_004515837.1	scaffold332	154150	CC	TT	TT	INTERGENIC		
SNP_70054_A_156089	NW_004515837.1	scaffold332	156089	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70055_A_183609	NW_004515837.1	scaffold332	183609	AA	GG	GG	INTERGENIC		
SNP_70056_A_203756	NW_004515837.1	scaffold332	203756	CC	TT	TT	NON_SYNONYMOUS_CODING	101488602	probable protein phosphatase 2C 42
SNP_70057_A_214366	NW_004515837.1	scaffold332	214366	CC	AA	AA	DRR	101488952	probable pectinesterase/pectinesterase inhibitor 32
SNP_70058_A_219761	NW_004515837.1	scaffold332	219761	AA	GG	GG	INTERGENIC		
SNP_70059_A_5048	NW_004515838.1	scaffold333	5048	GG	AA	AA	INTERGENIC		
SNP_70061_A_12701	NW_004515838.1	scaffold333	12701	GG	AA	AA	INTERGENIC		
SNP_70062_A_12775	NW_004515838.1	scaffold333	12775	AA	GG	GG	INTERGENIC		
SNP_70063_A_12847	NW_004515838.1	scaffold333	12847	CC	TT	TT	INTERGENIC		
SNP_70064_A_14346	NW_004515838.1	scaffold333	14346	AA	GG	GG	INTERGENIC		
SNP_70065_A_16222	NW_004515838.1	scaffold333	16222	GG	AA	AA	INTERGENIC		
SNP_70066_A_16806	NW_004515838.1	scaffold333	16806	CC	TT	TT	INTERGENIC		
SNP_70067_A_19399	NW_004515838.1	scaffold333	19399	GG	AA	AA	INTERGENIC		
SNP_70068_A_19668	NW_004515838.1	scaffold333	19668	TT	CC	CC	INTERGENIC		
SNP_70069_A_19883	NW_004515838.1	scaffold333	19883	TT	AA	AA	INTERGENIC		
SNP_70070_A_20034	NW_004515838.1	scaffold333	20034	AA	CC	CC	INTERGENIC		
SNP_70071_A_22352	NW_004515838.1	scaffold333	22352	CC	AA	AA	INTERGENIC		
SNP_70072_A_22519	NW_004515838.1	scaffold333	22519	TT	CC	CC	INTERGENIC		
SNP_70073_A_22525	NW_004515838.1	scaffold333	22525	CC	TT	TT	INTERGENIC		
SNP_70074_A_22621	NW_004515838.1	scaffold333	22621	GG	TT	TT	INTERGENIC		
SNP_70075_A_22845	NW_004515838.1	scaffold333	22845	CC	TT	TT	INTERGENIC		
SNP_70076_A_22890	NW_004515838.1	scaffold333	22890	TT	GG	GG	INTERGENIC		
SNP_70077_A_22904	NW_004515838.1	scaffold333	22904	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70078_A_22907	NW_004515838.1	scaffold333	22907	AA	GG	GG	INTERGENIC			
SNP_70079_A_23327	NW_004515838.1	scaffold333	23327	GG	CC	CC	INTERGENIC			
SNP_70080_A_23478	NW_004515838.1	scaffold333	23478	CC	GG	GG	INTERGENIC			
SNP_70081_A_26682	NW_004515838.1	scaffold333	26682	TT	GG	GG	INTERGENIC			
SNP_70082_A_28021	NW_004515838.1	scaffold333	28021	GG	AA	AA	INTERGENIC			
SNP_70083_A_28081	NW_004515838.1	scaffold333	28081	GG	AA	AA	INTERGENIC			
SNP_70084_A_28429	NW_004515838.1	scaffold333	28429	TT	CC	CC	INTERGENIC			
SNP_70085_A_28455	NW_004515838.1	scaffold333	28455	TT	CC	CC	INTERGENIC			
SNP_70086_A_44562	NW_004515838.1	scaffold333	44562	TT	AA	AA	INTERGENIC			
SNP_70087_A_44644	NW_004515838.1	scaffold333	44644	CC	AA	AA	INTERGENIC			
SNP_70088_A_44800	NW_004515838.1	scaffold333	44800	GG	AA	AA	INTERGENIC			
SNP_70089_A_44950	NW_004515838.1	scaffold333	44950	TT	GG	GG	INTERGENIC			
SNP_70090_A_45090	NW_004515838.1	scaffold333	45090	TT	AA	AA	INTERGENIC			
SNP_70091_A_52048	NW_004515838.1	scaffold333	52048	GG	AA	AA	INTERGENIC			
SNP_70092_A_52225	NW_004515838.1	scaffold333	52225	GG	TT	TT	INTERGENIC			
SNP_70093_A_52476	NW_004515838.1	scaffold333	52476	TT	CC	CC	INTERGENIC			
SNP_70094_A_52504	NW_004515838.1	scaffold333	52504	AA	TT	TT	INTERGENIC			
SNP_70095_A_52831	NW_004515838.1	scaffold333	52831	TT	CC	CC	INTERGENIC			
SNP_70096_A_53161	NW_004515838.1	scaffold333	53161	AA	CC	CC	INTERGENIC			
SNP_70097_A_53243	NW_004515838.1	scaffold333	53243	CC	GG	GG	INTERGENIC			
SNP_70098_A_64931	NW_004515838.1	scaffold333	64931	TT	CC	CC	INTERGENIC			
SNP_70099_A_64943	NW_004515838.1	scaffold333	64943	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70100_A_71621	NW_004515838.1	scaffold333	71621	CC	TT	TT	INTERGENIC		
SNP_70101_A_71649	NW_004515838.1	scaffold333	71649	TT	CC	CC	INTERGENIC		
SNP_70102_A_71707	NW_004515838.1	scaffold333	71707	TT	AA	AA	INTERGENIC		
SNP_70104_A_91943	NW_004515838.1	scaffold333	91943	GG	AA	AA	INTERGENIC		
SNP_70105_A_100716	NW_004515838.1	scaffold333	100716	TT	CC	CC	INTERGENIC		
SNP_70106_A_100728	NW_004515838.1	scaffold333	100728	GG	AA	AA	INTERGENIC		
SNP_70107_A_100786	NW_004515838.1	scaffold333	100786	TT	CC	CC	INTERGENIC		
SNP_70108_A_101094	NW_004515838.1	scaffold333	101094	AA	GG	GG	INTERGENIC		
SNP_70109_A_101130	NW_004515838.1	scaffold333	101130	TT	GG	GG	INTERGENIC		
SNP_70110_A_101184	NW_004515838.1	scaffold333	101184	AA	TT	TT	INTERGENIC		
SNP_70111_A_5080	NW_004515839.1	scaffold334	5080	TT	CC	CC	INTERGENIC		
SNP_70112_A_5106	NW_004515839.1	scaffold334	5106	AA	GG	GG	INTERGENIC		
SNP_70113_A_5142	NW_004515839.1	scaffold334	5142	AA	GG	GG	INTERGENIC		
SNP_70114_A_40763	NW_004515839.1	scaffold334	40763	AA	GG	GG	INTERGENIC		
SNP_70115_A_40799	NW_004515839.1	scaffold334	40799	CC	TT	TT	INTERGENIC		
SNP_70116_A_40949	NW_004515839.1	scaffold334	40949	GG	AA	AA	INTERGENIC		
SNP_70117_A_68792	NW_004515839.1	scaffold334	68792	AA	CC	CC	NON_SYNONYMOUS_CODING	101490894	uncharacterized LOC101490894
SNP_70118_A_69021	NW_004515839.1	scaffold334	69021	TT	CC	CC	NON_SYNONYMOUS_CODING	101490894	uncharacterized LOC101490894
SNP_70119_A_69151	NW_004515839.1	scaffold334	69151	AA	CC	CC	URR	101490894	uncharacterized LOC101490894
SNP_70120_A_69173	NW_004515839.1	scaffold334	69173	AA	GG	GG	URR	101490894	uncharacterized LOC101490894
SNP_70121_A_105844	NW_004515839.1	scaffold334	105844	CC	TT	TT	INTERGENIC		
SNP_70122_A_105852	NW_004515839.1	scaffold334	105852	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70123_A_105903	NW_004515839.1	scaffold334	105903	TT	AA	AA	INTERGENIC			
SNP_70124_A_105913	NW_004515839.1	scaffold334	105913	TT	CC	CC	INTERGENIC			
SNP_70125_A_105945	NW_004515839.1	scaffold334	105945	TT	AA	AA	INTERGENIC			
SNP_70126_A_105951	NW_004515839.1	scaffold334	105951	AA	CC	CC	INTERGENIC			
SNP_70127_A_105960	NW_004515839.1	scaffold334	105960	TT	CC	CC	INTERGENIC			
SNP_70128_A_105966	NW_004515839.1	scaffold334	105966	TT	AA	AA	INTERGENIC			
SNP_70129_A_105984	NW_004515839.1	scaffold334	105984	AA	GG	GG	INTERGENIC			
SNP_70130_A_106002	NW_004515839.1	scaffold334	106002	TT	AA	AA	INTERGENIC			
SNP_70131_A_106008	NW_004515839.1	scaffold334	106008	TT	CC	CC	INTERGENIC			
SNP_70132_A_106020	NW_004515839.1	scaffold334	106020	TT	CC	CC	INTERGENIC			
SNP_70133_A_106080	NW_004515839.1	scaffold334	106080	AA	CC	CC	INTERGENIC			
SNP_70134_A_106214	NW_004515839.1	scaffold334	106214	GG	TT	TT	INTERGENIC			
SNP_70135_A_106322	NW_004515839.1	scaffold334	106322	TT	CC	CC	INTERGENIC			
SNP_70136_A_108584	NW_004515839.1	scaffold334	108584	TT	AA	AA	INTERGENIC			
SNP_70137_A_108596	NW_004515839.1	scaffold334	108596	GG	TT	TT	INTERGENIC			
SNP_70138_A_108714	NW_004515839.1	scaffold334	108714	AA	CC	CC	INTERGENIC			
SNP_70139_A_108721	NW_004515839.1	scaffold334	108721	AA	GG	GG	INTERGENIC			
SNP_70140_A_108805	NW_004515839.1	scaffold334	108805	TT	CC	CC	INTERGENIC			
SNP_70141_A_108912	NW_004515839.1	scaffold334	108912	CC	AA	AA	INTERGENIC			
SNP_70142_A_108939	NW_004515839.1	scaffold334	108939	AA	TT	TT	INTERGENIC			
SNP_70143_A_109006	NW_004515839.1	scaffold334	109006	GG	AA	AA	INTERGENIC			
SNP_70144_A_109017	NW_004515839.1	scaffold334	109017	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70145_A_109019	NW_004515839.1	scaffold334	109019	TT	CC	CC	INTERGENIC			
SNP_70146_A_109083	NW_004515839.1	scaffold334	109083	TT	CC	CC	INTERGENIC			
SNP_70147_A_110607	NW_004515839.1	scaffold334	110607	AA	CC	CC	INTERGENIC			
SNP_70148_A_112484	NW_004515839.1	scaffold334	112484	CC	TT	TT	INTERGENIC			
SNP_70149_A_112508	NW_004515839.1	scaffold334	112508	GG	AA	AA	INTERGENIC			
SNP_70150_A_166008	NW_004515839.1	scaffold334	166008	GG	TT	TT	INTERGENIC			
SNP_70151_A_28813	NW_004515840.1	scaffold335	28813	TT	CC	CC	INTERGENIC			
SNP_70152_A_28818	NW_004515840.1	scaffold335	28818	AA	GG	GG	INTERGENIC			
SNP_70153_A_28888	NW_004515840.1	scaffold335	28888	TT	CC	CC	INTERGENIC			
SNP_70154_A_28901	NW_004515840.1	scaffold335	28901	TT	GG	GG	INTERGENIC			
SNP_70155_A_28902	NW_004515840.1	scaffold335	28902	AA	TT	TT	INTERGENIC			
SNP_70158_A_134598	NW_004515840.1	scaffold335	134598	AA	TT	TT	INTERGENIC			
SNP_70159_A_134745	NW_004515840.1	scaffold335	134745	TT	CC	CC	INTERGENIC			
SNP_70160_A_134918	NW_004515840.1	scaffold335	134918	GG	AA	AA	INTERGENIC			
SNP_70161_A_134930	NW_004515840.1	scaffold335	134930	TT	GG	GG	INTERGENIC			
SNP_70162_A_137327	NW_004515840.1	scaffold335	137327	GG	AA	AA	INTERGENIC			
SNP_70163_A_137396	NW_004515840.1	scaffold335	137396	TT	GG	GG	INTERGENIC			
SNP_70164_A_137449	NW_004515840.1	scaffold335	137449	AA	CC	CC	INTERGENIC			
SNP_70165_A_137465	NW_004515840.1	scaffold335	137465	CC	GG	GG	INTERGENIC			
SNP_70166_A_137492	NW_004515840.1	scaffold335	137492	AA	TT	TT	INTERGENIC			
SNP_70167_A_137528	NW_004515840.1	scaffold335	137528	CC	TT	TT	INTERGENIC			
SNP_70168_A_137670	NW_004515840.1	scaffold335	137670	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70169_A_137746	NW_004515840.1	scaffold335	137746	AA	TT	TT	INTERGENIC			
SNP_70170_A_137800	NW_004515840.1	scaffold335	137800	TT	GG	GG	INTERGENIC			
SNP_70171_A_137817	NW_004515840.1	scaffold335	137817	TT	CC	CC	INTERGENIC			
SNP_70172_A_137833	NW_004515840.1	scaffold335	137833	AA	GG	GG	INTERGENIC			
SNP_70173_A_137975	NW_004515840.1	scaffold335	137975	AA	GG	GG	INTERGENIC			
SNP_70174_A_139581	NW_004515840.1	scaffold335	139581	GG	CC	CC	INTERGENIC			
SNP_70175_A_139586	NW_004515840.1	scaffold335	139586	GG	AA	AA	INTERGENIC			
SNP_70176_A_142244	NW_004515840.1	scaffold335	142244	GG	AA	AA	INTERGENIC			
SNP_70177_A_142249	NW_004515840.1	scaffold335	142249	CC	TT	TT	INTERGENIC			
SNP_70178_A_157799	NW_004515840.1	scaffold335	157799	AA	GG	GG	INTERGENIC			
SNP_70179_A_157976	NW_004515840.1	scaffold335	157976	TT	CC	CC	INTERGENIC			
SNP_70180_A_164802	NW_004515840.1	scaffold335	164802	GG	AA	AA	INTERGENIC			
SNP_70181_A_174825	NW_004515840.1	scaffold335	174825	GG	TT	TT	INTERGENIC			
SNP_70182_A_193847	NW_004515840.1	scaffold335	193847	GG	AA	AA	INTERGENIC			
SNP_70183_A_193867	NW_004515840.1	scaffold335	193867	CC	GG	GG	INTERGENIC			
SNP_70184_A_195396	NW_004515840.1	scaffold335	195396	AA	GG	GG	INTERGENIC			
SNP_70185_A_202770	NW_004515840.1	scaffold335	202770	CC	TT	TT	INTERGENIC			
SNP_70186_A_202777	NW_004515840.1	scaffold335	202777	AA	GG	GG	INTERGENIC			
SNP_70189_A_211420	NW_004515840.1	scaffold335	211420	TT	CC	CC	INTERGENIC			
SNP_70190_A_211558	NW_004515840.1	scaffold335	211558	CC	TT	TT	INTERGENIC			
SNP_70191_A_215192	NW_004515840.1	scaffold335	215192	GG	AA	AA	INTERGENIC			
SNP_70192_A_218765	NW_004515840.1	scaffold335	218765	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70193_A_232556	NW_004515840.1	scaffold335	232556	AA	GG	GG	INTERGENIC			
SNP_70195_A_12180	NW_004515841.1	scaffold336	12180	TT	CC	CC	INTERGENIC			
SNP_70196_A_13591	NW_004515841.1	scaffold336	13591	AA	TT	TT	INTERGENIC			
SNP_70197_A_13677	NW_004515841.1	scaffold336	13677	AA	GG	GG	INTERGENIC			
SNP_70198_A_13685	NW_004515841.1	scaffold336	13685	CC	TT	TT	INTERGENIC			
SNP_70199_A_13740	NW_004515841.1	scaffold336	13740	AA	GG	GG	INTERGENIC			
SNP_70200_A_20214	NW_004515841.1	scaffold336	20214	TT	GG	GG	INTERGENIC			
SNP_70201_A_63808	NW_004515841.1	scaffold336	63808	AA	GG	GG	INTERGENIC			
SNP_70202_A_63822	NW_004515841.1	scaffold336	63822	AA	GG	GG	INTERGENIC			
SNP_70203_A_64062	NW_004515841.1	scaffold336	64062	GG	CC	CC	INTERGENIC			
SNP_70204_A_64423	NW_004515841.1	scaffold336	64423	TT	GG	GG	INTERGENIC			
SNP_70205_A_65436	NW_004515841.1	scaffold336	65436	TT	GG	GG	INTERGENIC			
SNP_70207_A_68816	NW_004515841.1	scaffold336	68816	AA	CC	CC	INTERGENIC			
SNP_70208_A_68830	NW_004515841.1	scaffold336	68830	TT	AA	AA	INTERGENIC			
SNP_70209_A_68864	NW_004515841.1	scaffold336	68864	GG	TT	TT	INTERGENIC			
SNP_70210_A_90934	NW_004515841.1	scaffold336	90934	GG	AA	AA	INTERGENIC			
SNP_70211_A_90981	NW_004515841.1	scaffold336	90981	AA	GG	GG	INTERGENIC			
SNP_70212_A_99303	NW_004515841.1	scaffold336	99303	GG	CC	CC	INTERGENIC			
SNP_70213_A_106120	NW_004515841.1	scaffold336	106120	GG	AA	AA	INTERGENIC			
SNP_70214_A_120869	NW_004515841.1	scaffold336	120869	TT	GG	GG	INTERGENIC			
SNP_70215_A_151364	NW_004515841.1	scaffold336	151364	GG	AA	AA	INTERGENIC			
SNP_70216_A_152942	NW_004515841.1	scaffold336	152942	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70217_A_178220	NW_004515841.1	scaffold336	178220	AA	GG	GG	URR	101497928	uncharacterized LOC101497928
SNP_70218_A_178959	NW_004515841.1	scaffold336	178959	AA	CC	CC	URR	101497928	uncharacterized LOC101497928
SNP_70219_A_216742	NW_004515841.1	scaffold336	216742	CC	TT	TT	INTERGENIC		
SNP_70220_A_224794	NW_004515841.1	scaffold336	224794	GG	TT	TT	INTERGENIC		
SNP_70222_A_329756	NW_004515841.1	scaffold336	329756	TT	CC	CC	INTERGENIC		
SNP_70223_A_360823	NW_004515841.1	scaffold336	360823	TT	CC	CC	INTERGENIC		
SNP_70225_A_360932	NW_004515841.1	scaffold336	360932	AA	CC	CC	INTERGENIC		
SNP_70226_A_360971	NW_004515841.1	scaffold336	360971	AA	CC	CC	INTERGENIC		
SNP_70227_A_375241	NW_004515841.1	scaffold336	375241	TT	GG	GG	INTERGENIC		
SNP_70228_A_386576	NW_004515841.1	scaffold336	386576	TT	AA	AA	INTERGENIC		
SNP_70229_A_392714	NW_004515841.1	scaffold336	392714	TT	GG	GG	INTERGENIC		
SNP_70230_A_392718	NW_004515841.1	scaffold336	392718	AA	GG	GG	INTERGENIC		
SNP_70231_A_400144	NW_004515841.1	scaffold336	400144	TT	AA	AA	INTERGENIC		
SNP_70232_A_400536	NW_004515841.1	scaffold336	400536	CC	AA	AA	INTERGENIC		
SNP_70233_A_427333	NW_004515841.1	scaffold336	427333	TT	AA	AA	INTERGENIC		
SNP_70234_A_427334	NW_004515841.1	scaffold336	427334	CC	AA	AA	INTERGENIC		
SNP_70236_A_455682	NW_004515841.1	scaffold336	455682	CC	AA	AA	INTERGENIC		
SNP_70237_A_529802	NW_004515841.1	scaffold336	529802	TT	CC	CC	INTERGENIC		
SNP_70238_A_530181	NW_004515841.1	scaffold336	530181	TT	GG	GG	INTERGENIC		
SNP_70239_A_538373	NW_004515841.1	scaffold336	538373	AA	GG	GG	INTERGENIC		
SNP_70240_A_538401	NW_004515841.1	scaffold336	538401	TT	GG	GG	INTERGENIC		
SNP_70241_A_538409	NW_004515841.1	scaffold336	538409	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70242_A_538479	NW_004515841.1	scaffold336	538479	TT	GG	GG	INTERGENIC			
SNP_70243_A_538530	NW_004515841.1	scaffold336	538530	GG	AA	AA	INTERGENIC			
SNP_70244_A_538542	NW_004515841.1	scaffold336	538542	GG	AA	AA	INTERGENIC			
SNP_70245_A_538689	NW_004515841.1	scaffold336	538689	AA	GG	GG	INTERGENIC			
SNP_70246_A_538741	NW_004515841.1	scaffold336	538741	AA	GG	GG	INTERGENIC			
SNP_70247_A_538761	NW_004515841.1	scaffold336	538761	GG	AA	AA	INTERGENIC			
SNP_70248_A_538780	NW_004515841.1	scaffold336	538780	TT	CC	CC	INTERGENIC			
SNP_70249_A_538854	NW_004515841.1	scaffold336	538854	TT	GG	GG	INTERGENIC			
SNP_70250_A_538862	NW_004515841.1	scaffold336	538862	CC	AA	AA	INTERGENIC			
SNP_70251_A_543002	NW_004515841.1	scaffold336	543002	AA	CC	CC	INTERGENIC			
SNP_70253_A_565417	NW_004515841.1	scaffold336	565417	AA	GG	GG	INTERGENIC			
SNP_70255_A_565839	NW_004515841.1	scaffold336	565839	CC	AA	AA	INTERGENIC			
SNP_70256_A_565854	NW_004515841.1	scaffold336	565854	GG	AA	AA	INTERGENIC			
SNP_70257_A_583619	NW_004515841.1	scaffold336	583619	TT	GG	GG	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70258_A_583629	NW_004515841.1	scaffold336	583629	CC	AA	AA	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70259_A_583640	NW_004515841.1	scaffold336	583640	AA	GG	GG	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70260_A_583658	NW_004515841.1	scaffold336	583658	TT	CC	CC	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70261_A_583664	NW_004515841.1	scaffold336	583664	AA	GG	GG	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70262_A_583697	NW_004515841.1	scaffold336	583697	AA	CC	CC	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70263_A_584021	NW_004515841.1	scaffold336	584021	AA	GG	GG	INTRON	101495850	RNA-directed DNA methylation 4	
SNP_70264_A_613695	NW_004515841.1	scaffold336	613695	GG	AA	AA	INTERGENIC			
SNP_70265_A_616959	NW_004515841.1	scaffold336	616959	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70266_A_617479	NW_004515841.1	scaffold336	617479	CC	AA	AA	DRR	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70269_A_634151	NW_004515841.1	scaffold336	634151	GG	AA	AA	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70270_A_634155	NW_004515841.1	scaffold336	634155	AA	GG	GG	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70271_A_634188	NW_004515841.1	scaffold336	634188	GG	AA	AA	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70272_A_634248	NW_004515841.1	scaffold336	634248	TT	CC	CC	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70273_A_634266	NW_004515841.1	scaffold336	634266	AA	GG	GG	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70274_A_634377	NW_004515841.1	scaffold336	634377	AA	GG	GG	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70275_A_645546	NW_004515841.1	scaffold336	645546	TT	CC	CC	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70276_A_647474	NW_004515841.1	scaffold336	647474	TT	GG	GG	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70277_A_647489	NW_004515841.1	scaffold336	647489	AA	GG	GG	INTRON	101499558	ABC transporter B family member 26, chloroplastic-like
SNP_70278_A_680179	NW_004515841.1	scaffold336	680179	AA	CC	CC	INTERGENIC		
SNP_70279_A_709844	NW_004515841.1	scaffold336	709844	AA	GG	GG	URR	101499856	Unknown function
SNP_70280_A_709937	NW_004515841.1	scaffold336	709937	TT	GG	GG	URR	101499856	Unknown function
SNP_70281_A_710048	NW_004515841.1	scaffold336	710048	AA	GG	GG	URR	101499856	Unknown function
SNP_70282_A_710068	NW_004515841.1	scaffold336	710068	GG	TT	TT	URR	101499856	Unknown function
SNP_70283_A_710249	NW_004515841.1	scaffold336	710249	TT	CC	CC	URR	101499856	Unknown function
SNP_70284_A_710286	NW_004515841.1	scaffold336	710286	AA	GG	GG	URR	101499856	Unknown function
SNP_70285_A_710314	NW_004515841.1	scaffold336	710314	CC	TT	TT	URR	101500190	Unknown function
SNP_70287_A_710497	NW_004515841.1	scaffold336	710497	CC	TT	TT	URR	101500190	Unknown function
SNP_70288_A_758051	NW_004515841.1	scaffold336	758051	TT	CC	CC	INTERGENIC		
SNP_70289_A_758059	NW_004515841.1	scaffold336	758059	TT	CC	CC	INTERGENIC		
SNP_70290_A_758076	NW_004515841.1	scaffold336	758076	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70291_A_764483	NW_004515841.1	scaffold336	764483	AA	CC	CC	INTERGENIC		
SNP_70292_A_786092	NW_004515841.1	scaffold336	786092	CC	GG	GG	INTERGENIC		
SNP_70293_A_805497	NW_004515841.1	scaffold336	805497	CC	TT	TT	INTERGENIC		
SNP_70294_A_805532	NW_004515841.1	scaffold336	805532	TT	GG	GG	INTERGENIC		
SNP_70295_A_805909	NW_004515841.1	scaffold336	805909	AA	GG	GG	INTERGENIC		
SNP_70296_A_805921	NW_004515841.1	scaffold336	805921	TT	CC	CC	INTERGENIC		
SNP_70297_A_813810	NW_004515841.1	scaffold336	813810	AA	TT	TT	INTERGENIC		
SNP_70299_A_867384	NW_004515841.1	scaffold336	867384	GG	TT	TT	INTERGENIC		
SNP_70300_A_867454	NW_004515841.1	scaffold336	867454	AA	GG	GG	INTERGENIC		
SNP_70301_A_867455	NW_004515841.1	scaffold336	867455	AA	GG	GG	INTERGENIC		
SNP_70302_A_867806	NW_004515841.1	scaffold336	867806	GG	AA	AA	INTERGENIC		
SNP_70303_A_71170	NW_004515842.1	scaffold338	71170	TT	CC	CC	INTERGENIC		
SNP_70304_A_71253	NW_004515842.1	scaffold338	71253	AA	TT	TT	INTERGENIC		
SNP_70305_A_71497	NW_004515842.1	scaffold338	71497	AA	GG	GG	INTERGENIC		
SNP_70306_A_71725	NW_004515842.1	scaffold338	71725	GG	AA	AA	INTERGENIC		
SNP_70308_A_12123	NW_004515843.1	scaffold340	12123	AA	CC	CC	INTERGENIC		
SNP_70309_A_12171	NW_004515843.1	scaffold340	12171	TT	AA	AA	INTERGENIC		
SNP_70310_A_12175	NW_004515843.1	scaffold340	12175	CC	AA	AA	INTERGENIC		
SNP_70311_A_12394	NW_004515843.1	scaffold340	12394	CC	AA	AA	INTERGENIC		
SNP_70312_A_12399	NW_004515843.1	scaffold340	12399	TT	CC	CC	INTERGENIC		
SNP_70313_A_21553	NW_004515843.1	scaffold340	21553	AA	GG	GG	INTRON	101503481	chromosome transmission fidelity protein 18 homolog
SNP_70314_A_25058	NW_004515843.1	scaffold340	25058	GG	AA	AA	INTRON	101503481	chromosome transmission fidelity protein 18 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70315_A_40846	NW_004515843.1	scaffold340	40846	CC	TT	TT	INTRON	101503481	chromosome transmission fidelity protein 18 homolog
SNP_70318_A_59307	NW_004515843.1	scaffold340	59307	GG	AA	AA	URR	101503481	chromosome transmission fidelity protein 18 homolog
SNP_70319_A_63077	NW_004515843.1	scaffold340	63077	GG	AA	AA	INTERGENIC		
SNP_70320_A_65683	NW_004515843.1	scaffold340	65683	AA	TT	TT	INTERGENIC		
SNP_70321_A_66358	NW_004515843.1	scaffold340	66358	AA	CC	CC	INTERGENIC		
SNP_70323_A_68876	NW_004515843.1	scaffold340	68876	AA	GG	GG	INTERGENIC		
SNP_70324_A_68955	NW_004515843.1	scaffold340	68955	AA	GG	GG	INTERGENIC		
SNP_70325_A_69053	NW_004515843.1	scaffold340	69053	CC	TT	TT	INTERGENIC		
SNP_70326_A_69119	NW_004515843.1	scaffold340	69119	TT	GG	GG	INTERGENIC		
SNP_70327_A_69317	NW_004515843.1	scaffold340	69317	GG	AA	AA	INTERGENIC		
SNP_70328_A_69332	NW_004515843.1	scaffold340	69332	GG	AA	AA	INTERGENIC		
SNP_70329_A_69451	NW_004515843.1	scaffold340	69451	GG	CC	CC	INTERGENIC		
SNP_70330_A_77331	NW_004515843.1	scaffold340	77331	AA	TT	TT	INTERGENIC		
SNP_70331_A_77355	NW_004515843.1	scaffold340	77355	GG	TT	TT	INTERGENIC		
SNP_70332_A_77387	NW_004515843.1	scaffold340	77387	AA	GG	GG	INTERGENIC		
SNP_70333_A_79161	NW_004515843.1	scaffold340	79161	AA	GG	GG	INTERGENIC		
SNP_70334_A_85709	NW_004515843.1	scaffold340	85709	AA	GG	GG	INTERGENIC		
SNP_70335_A_90236	NW_004515843.1	scaffold340	90236	CC	TT	TT	INTERGENIC		
SNP_70337_A_90701	NW_004515843.1	scaffold340	90701	GG	AA	AA	INTERGENIC		
SNP_70338_A_90716	NW_004515843.1	scaffold340	90716	GG	AA	AA	INTERGENIC		
SNP_70339_A_90790	NW_004515843.1	scaffold340	90790	CC	TT	TT	INTERGENIC		
SNP_70340_A_91168	NW_004515843.1	scaffold340	91168	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70341_A_100176	NW_004515843.1	scaffold340	100176	GG	AA	AA	INTERGENIC			
SNP_70343_A_101527	NW_004515843.1	scaffold340	101527	CC	TT	TT	INTERGENIC			
SNP_70344_A_103756	NW_004515843.1	scaffold340	103756	GG	AA	AA	INTERGENIC			
SNP_70345_A_105064	NW_004515843.1	scaffold340	105064	AA	GG	GG	INTERGENIC			
SNP_70346_A_107699	NW_004515843.1	scaffold340	107699	GG	AA	AA	INTERGENIC			
SNP_70347_A_110522	NW_004515843.1	scaffold340	110522	CC	AA	AA	INTERGENIC			
SNP_70348_A_110609	NW_004515843.1	scaffold340	110609	TT	CC	CC	INTERGENIC			
SNP_70349_A_110907	NW_004515843.1	scaffold340	110907	GG	AA	AA	INTERGENIC			
SNP_70350_A_111784	NW_004515843.1	scaffold340	111784	TT	CC	CC	INTERGENIC			
SNP_70351_A_111946	NW_004515843.1	scaffold340	111946	CC	AA	AA	INTERGENIC			
SNP_70352_A_111948	NW_004515843.1	scaffold340	111948	AA	TT	TT	INTERGENIC			
SNP_70353_A_113203	NW_004515843.1	scaffold340	113203	AA	TT	TT	INTERGENIC			
SNP_70354_A_114180	NW_004515843.1	scaffold340	114180	GG	TT	TT	INTERGENIC			
SNP_70355_A_118715	NW_004515843.1	scaffold340	118715	AA	GG	GG	INTERGENIC			
SNP_70356_A_118986	NW_004515843.1	scaffold340	118986	TT	GG	GG	INTERGENIC			
SNP_70357_A_118991	NW_004515843.1	scaffold340	118991	TT	CC	CC	INTERGENIC			
SNP_70358_A_119034	NW_004515843.1	scaffold340	119034	AA	GG	GG	INTERGENIC			
SNP_70360_A_122848	NW_004515843.1	scaffold340	122848	TT	CC	CC	INTERGENIC			
SNP_70361_A_124944	NW_004515843.1	scaffold340	124944	GG	AA	AA	INTERGENIC			
SNP_70362_A_128250	NW_004515843.1	scaffold340	128250	TT	CC	CC	INTERGENIC			
SNP_70363_A_128470	NW_004515843.1	scaffold340	128470	GG	TT	TT	INTERGENIC			
SNP_70364_A_128544	NW_004515843.1	scaffold340	128544	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70365_A_128667	NW_004515843.1	scaffold340	128667	GG	AA	AA	INTERGENIC		
SNP_70366_A_128884	NW_004515843.1	scaffold340	128884	CC	TT	TT	INTERGENIC		
SNP_70367_A_128959	NW_004515843.1	scaffold340	128959	CC	TT	TT	INTERGENIC		
SNP_70368_A_130922	NW_004515843.1	scaffold340	130922	TT	AA	AA	INTERGENIC		
SNP_70369_A_134084	NW_004515843.1	scaffold340	134084	GG	AA	AA	INTERGENIC		
SNP_70371_A_137135	NW_004515843.1	scaffold340	137135	GG	AA	AA	INTERGENIC		
SNP_70372_A_137201	NW_004515843.1	scaffold340	137201	TT	AA	AA	INTERGENIC		
SNP_70373_A_149006	NW_004515843.1	scaffold340	149006	TT	GG	GG	INTERGENIC		
SNP_70374_A_150311	NW_004515843.1	scaffold340	150311	TT	CC	CC	INTERGENIC		
SNP_70375_A_150336	NW_004515843.1	scaffold340	150336	AA	TT	TT	INTERGENIC		
SNP_70376_A_154840	NW_004515843.1	scaffold340	154840	TT	GG	GG	INTERGENIC		
SNP_70377_A_155737	NW_004515843.1	scaffold340	155737	CC	TT	TT	INTERGENIC		
SNP_70378_A_157389	NW_004515843.1	scaffold340	157389	AA	GG	GG	INTERGENIC		
SNP_70379_A_157446	NW_004515843.1	scaffold340	157446	AA	GG	GG	INTERGENIC		
SNP_70380_A_158193	NW_004515843.1	scaffold340	158193	TT	GG	GG	INTERGENIC		
SNP_70381_A_160328	NW_004515843.1	scaffold340	160328	GG	AA	AA	SYNONYMOUS_CODING	101504138	Unknown function
SNP_70382_A_160332	NW_004515843.1	scaffold340	160332	CC	TT	TT	NON_SYNONYMOUS_CODING	101504138	Unknown function
SNP_70383_A_160362	NW_004515843.1	scaffold340	160362	CC	GG	GG	NON_SYNONYMOUS_CODING	101504138	Unknown function
SNP_70385_A_164894	NW_004515843.1	scaffold340	164894	CC	GG	GG	INTRON	101504138	Unknown function
SNP_70386_A_165109	NW_004515843.1	scaffold340	165109	AA	GG	GG	INTRON	101504138	Unknown function
SNP_70387_A_165175	NW_004515843.1	scaffold340	165175	TT	AA	AA	INTRON	101504138	Unknown function
SNP_70388_A_169348	NW_004515843.1	scaffold340	169348	AA	GG	GG	NON_SYNONYMOUS_CODING	101504138	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70389_A_172119	NW_004515843.1	scaffold340	172119	CC	AA	AA	URR	101504138	Unknown function
SNP_70390_A_173941	NW_004515843.1	scaffold340	173941	GG	AA	AA	INTERGENIC		
SNP_70391_A_174835	NW_004515843.1	scaffold340	174835	TT	GG	GG	INTERGENIC		
SNP_70392_A_176027	NW_004515843.1	scaffold340	176027	CC	TT	TT	INTERGENIC		
SNP_70393_A_192064	NW_004515843.1	scaffold340	192064	GG	AA	AA	DRR	101502948	uncharacterized LOC101502948
SNP_70394_A_197905	NW_004515843.1	scaffold340	197905	CC	AA	AA	INTERGENIC		
SNP_70395_A_198222	NW_004515843.1	scaffold340	198222	CC	GG	GG	INTERGENIC		
SNP_70396_A_198506	NW_004515843.1	scaffold340	198506	TT	AA	AA	INTERGENIC		
SNP_70397_A_200649	NW_004515843.1	scaffold340	200649	TT	CC	CC	INTERGENIC		
SNP_70398_A_201999	NW_004515843.1	scaffold340	201999	TT	CC	CC	INTERGENIC		
SNP_70399_A_202248	NW_004515843.1	scaffold340	202248	CC	GG	GG	INTERGENIC		
SNP_70401_A_204582	NW_004515843.1	scaffold340	204582	TT	CC	CC	INTERGENIC		
SNP_70402_A_204796	NW_004515843.1	scaffold340	204796	GG	AA	AA	INTERGENIC		
SNP_70403_A_205440	NW_004515843.1	scaffold340	205440	GG	TT	TT	INTERGENIC		
SNP_70404_A_205466	NW_004515843.1	scaffold340	205466	AA	GG	GG	INTERGENIC		
SNP_70405_A_205483	NW_004515843.1	scaffold340	205483	AA	GG	GG	INTERGENIC		
SNP_70406_A_205501	NW_004515843.1	scaffold340	205501	TT	GG	GG	INTERGENIC		
SNP_70407_A_205508	NW_004515843.1	scaffold340	205508	GG	AA	AA	INTERGENIC		
SNP_70410_A_210551	NW_004515843.1	scaffold340	210551	GG	AA	AA	INTERGENIC		
SNP_70411_A_212606	NW_004515843.1	scaffold340	212606	TT	CC	CC	INTERGENIC		
SNP_70412_A_219247	NW_004515843.1	scaffold340	219247	GG	CC	CC	INTERGENIC		
SNP_70414_A_219397	NW_004515843.1	scaffold340	219397	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70415_A_219749	NW_004515843.1	scaffold340	219749	GG	AA	AA	INTERGENIC			
SNP_70416_A_220207	NW_004515843.1	scaffold340	220207	TT	GG	GG	INTERGENIC			
SNP_70417_A_220237	NW_004515843.1	scaffold340	220237	GG	AA	AA	INTERGENIC			
SNP_70418_A_221504	NW_004515843.1	scaffold340	221504	GG	AA	AA	INTERGENIC			
SNP_70419_A_223514	NW_004515843.1	scaffold340	223514	AA	GG	GG	INTERGENIC			
SNP_70420_A_223609	NW_004515843.1	scaffold340	223609	TT	CC	CC	INTERGENIC			
SNP_70422_A_228217	NW_004515843.1	scaffold340	228217	GG	AA	AA	INTERGENIC			
SNP_70423_A_238445	NW_004515843.1	scaffold340	238445	GG	TT	TT	INTERGENIC			
SNP_70424_A_238465	NW_004515843.1	scaffold340	238465	CC	TT	TT	INTERGENIC			
SNP_70425_A_239553	NW_004515843.1	scaffold340	239553	TT	CC	CC	INTERGENIC			
SNP_70426_A_242042	NW_004515843.1	scaffold340	242042	AA	GG	GG	INTERGENIC			
SNP_70427_A_242097	NW_004515843.1	scaffold340	242097	AA	GG	GG	INTERGENIC			
SNP_70429_A_242159	NW_004515843.1	scaffold340	242159	AA	GG	GG	INTERGENIC			
SNP_70430_A_242168	NW_004515843.1	scaffold340	242168	CC	TT	TT	INTERGENIC			
SNP_70431_A_242225	NW_004515843.1	scaffold340	242225	AA	CC	CC	INTERGENIC			
SNP_70432_A_242461	NW_004515843.1	scaffold340	242461	TT	CC	CC	INTERGENIC			
SNP_70433_A_242472	NW_004515843.1	scaffold340	242472	TT	GG	GG	INTERGENIC			
SNP_70434_A_242473	NW_004515843.1	scaffold340	242473	GG	TT	TT	INTERGENIC			
SNP_70435_A_243384	NW_004515843.1	scaffold340	243384	TT	CC	CC	INTERGENIC			
SNP_70436_A_245500	NW_004515843.1	scaffold340	245500	CC	TT	TT	INTERGENIC			
SNP_70437_A_245531	NW_004515843.1	scaffold340	245531	GG	AA	AA	INTERGENIC			
SNP_70438_A_246677	NW_004515843.1	scaffold340	246677	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70439_A_252850	NW_004515843.1	scaffold340	252850	TT	GG	GG	URR	101503161	probable leucine-rich repeat receptor-like protein kinase At2g33170
SNP_70440_A_259960	NW_004515843.1	scaffold340	259960	GG	AA	AA	INTERGENIC		
SNP_70441_A_261459	NW_004515843.1	scaffold340	261459	CC	TT	TT	INTERGENIC		
SNP_70442_A_261461	NW_004515843.1	scaffold340	261461	GG	AA	AA	INTERGENIC		
SNP_70445_A_264142	NW_004515843.1	scaffold340	264142	AA	GG	GG	INTERGENIC		
SNP_70446_A_274570	NW_004515843.1	scaffold340	274570	TT	CC	CC	INTERGENIC		
SNP_70447_A_275496	NW_004515843.1	scaffold340	275496	TT	AA	AA	INTERGENIC		
SNP_70448_A_275578	NW_004515843.1	scaffold340	275578	TT	CC	CC	INTERGENIC		
SNP_70449_A_275792	NW_004515843.1	scaffold340	275792	AA	CC	CC	INTERGENIC		
SNP_70450_A_280335	NW_004515843.1	scaffold340	280335	CC	TT	TT	INTERGENIC		
SNP_70451_A_284980	NW_004515843.1	scaffold340	284980	AA	GG	GG	INTERGENIC		
SNP_70453_A_289793	NW_004515843.1	scaffold340	289793	AA	TT	TT	INTRON	101504456	Unknown function
SNP_70454_A_289794	NW_004515843.1	scaffold340	289794	AA	GG	GG	INTRON	101504456	Unknown function
SNP_70455_A_290022	NW_004515843.1	scaffold340	290022	CC	TT	TT	INTRON	101504456	Unknown function
SNP_70456_A_290044	NW_004515843.1	scaffold340	290044	CC	GG	GG	INTRON	101504456	Unknown function
SNP_70457_A_290903	NW_004515843.1	scaffold340	290903	CC	TT	TT	INTRON	101504456	Unknown function
SNP_70458_A_293829	NW_004515843.1	scaffold340	293829	CC	TT	TT	INTRON	101504456	Unknown function
SNP_70459_A_294730	NW_004515843.1	scaffold340	294730	GG	AA	AA	NON_SYNONYMOUS_CODING	101504456	Unknown function
SNP_70460_A_295069	NW_004515843.1	scaffold340	295069	CC	TT	TT	URR	101504456	Unknown function
SNP_70461_A_295097	NW_004515843.1	scaffold340	295097	AA	TT	TT	URR	101504456	Unknown function
SNP_70462_A_295426	NW_004515843.1	scaffold340	295426	CC	TT	TT	URR	101504456	Unknown function
SNP_70463_A_295473	NW_004515843.1	scaffold340	295473	TT	CC	CC	URR	101504456	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70464_A_295497	NW_004515843.1	scaffold340	295497	TT	AA	AA	URR	101504456	Unknown function
SNP_70466_A_299011	NW_004515843.1	scaffold340	299011	TT	CC	CC	INTERGENIC		
SNP_70467_A_315101	NW_004515843.1	scaffold340	315101	GG	TT	TT	INTERGENIC		
SNP_70468_A_316374	NW_004515843.1	scaffold340	316374	CC	TT	TT	INTERGENIC		
SNP_70470_A_318121	NW_004515843.1	scaffold340	318121	GG	AA	AA	INTERGENIC		
SNP_70471_A_318145	NW_004515843.1	scaffold340	318145	TT	CC	CC	INTERGENIC		
SNP_70472_A_3924	NW_004515844.1	scaffold341	3924	CC	TT	TT	INTERGENIC		
SNP_70473_A_67905	NW_004515844.1	scaffold341	67905	TT	CC	CC	INTERGENIC		
SNP_70474_A_68166	NW_004515844.1	scaffold341	68166	AA	CC	CC	INTERGENIC		
SNP_70475_A_85417	NW_004515844.1	scaffold341	85417	CC	TT	TT	INTERGENIC		
SNP_70476_A_102427	NW_004515844.1	scaffold341	102427	TT	CC	CC	URR	101505416	glucan endo-1,3-beta-glucosidase-like
SNP_70477_A_102622	NW_004515844.1	scaffold341	102622	GG	TT	TT	URR	101505416	glucan endo-1,3-beta-glucosidase-like
SNP_70478_A_122356	NW_004515844.1	scaffold341	122356	AA	TT	TT	INTERGENIC		
SNP_70479_A_135144	NW_004515844.1	scaffold341	135144	AA	GG	GG	INTERGENIC		
SNP_70480_A_135151	NW_004515844.1	scaffold341	135151	TT	CC	CC	INTERGENIC		
SNP_70481_A_135180	NW_004515844.1	scaffold341	135180	TT	GG	GG	INTERGENIC		
SNP_70483_A_135265	NW_004515844.1	scaffold341	135265	AA	GG	GG	INTERGENIC		
SNP_70485_A_135509	NW_004515844.1	scaffold341	135509	GG	AA	AA	INTERGENIC		
SNP_70486_A_135546	NW_004515844.1	scaffold341	135546	TT	AA	AA	INTERGENIC		
SNP_70487_A_135569	NW_004515844.1	scaffold341	135569	GG	TT	TT	INTERGENIC		
SNP_70488_A_137511	NW_004515844.1	scaffold341	137511	AA	GG	GG	INTERGENIC		
SNP_70489_A_144852	NW_004515844.1	scaffold341	144852	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70490_A_144879	NW_004515844.1	scaffold341	144879	AA	GG	GG	INTERGENIC			
SNP_70491_A_184974	NW_004515844.1	scaffold341	184974	AA	CC	CC	INTERGENIC			
SNP_70492_A_185029	NW_004515844.1	scaffold341	185029	AA	TT	TT	INTERGENIC			
SNP_70493_A_185055	NW_004515844.1	scaffold341	185055	TT	CC	CC	INTERGENIC			
SNP_70494_A_185067	NW_004515844.1	scaffold341	185067	CC	TT	TT	INTERGENIC			
SNP_70495_A_185546	NW_004515844.1	scaffold341	185546	AA	GG	GG	INTERGENIC			
SNP_70496_A_622	NW_004515845.1	scaffold342	622	CC	TT	TT	INTERGENIC			
SNP_70497_A_651	NW_004515845.1	scaffold342	651	TT	GG	GG	INTERGENIC			
SNP_70498_A_652	NW_004515845.1	scaffold342	652	TT	CC	CC	INTERGENIC			
SNP_70499_A_674	NW_004515845.1	scaffold342	674	AA	GG	GG	INTERGENIC			
SNP_70500_A_681	NW_004515845.1	scaffold342	681	TT	CC	CC	INTERGENIC			
SNP_70501_A_706	NW_004515845.1	scaffold342	706	AA	GG	GG	INTERGENIC			
SNP_70502_A_881	NW_004515845.1	scaffold342	881	AA	GG	GG	INTERGENIC			
SNP_70503_A_979	NW_004515845.1	scaffold342	979	GG	AA	AA	INTERGENIC			
SNP_70504_A_19149	NW_004515845.1	scaffold342	19149	GG	AA	AA	INTERGENIC			
SNP_70505_A_19257	NW_004515845.1	scaffold342	19257	CC	GG	GG	INTERGENIC			
SNP_70506_A_19344	NW_004515845.1	scaffold342	19344	GG	TT	TT	INTERGENIC			
SNP_70507_A_19525	NW_004515845.1	scaffold342	19525	TT	CC	CC	INTERGENIC			
SNP_70508_A_19564	NW_004515845.1	scaffold342	19564	AA	CC	CC	INTERGENIC			
SNP_70509_A_19565	NW_004515845.1	scaffold342	19565	TT	AA	AA	INTERGENIC			
SNP_70510_A_19566	NW_004515845.1	scaffold342	19566	CC	AA	AA	INTERGENIC			
SNP_70511_A_19567	NW_004515845.1	scaffold342	19567	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70512_A_19633	NW_004515845.1	scaffold342	19633	TT	CC	CC	INTERGENIC		
SNP_70513_A_23950	NW_004515845.1	scaffold342	23950	TT	AA	AA	INTERGENIC		
SNP_70514_A_23996	NW_004515845.1	scaffold342	23996	TT	CC	CC	INTERGENIC		
SNP_70515_A_61003	NW_004515845.1	scaffold342	61003	CC	AA	AA	INTRON	101508007	Unknown function
SNP_70516_A_61026	NW_004515845.1	scaffold342	61026	CC	TT	TT	INTRON	101508007	Unknown function
SNP_70517_A_61574	NW_004515845.1	scaffold342	61574	TT	CC	CC	NON_SYNONYMOUS_CODING	101508007	Unknown function
SNP_70518_A_80405	NW_004515845.1	scaffold342	80405	GG	AA	AA	INTRON	101508634	kelch repeat-containing protein At3g27220-like
SNP_70519_A_121080	NW_004515845.1	scaffold342	121080	GG	TT	TT	INTERGENIC		
SNP_70521_A_125463	NW_004515845.1	scaffold342	125463	TT	CC	CC	INTERGENIC		
SNP_70522_A_125558	NW_004515845.1	scaffold342	125558	TT	CC	CC	INTERGENIC		
SNP_70523_A_125580	NW_004515845.1	scaffold342	125580	GG	AA	AA	INTERGENIC		
SNP_70524_A_125621	NW_004515845.1	scaffold342	125621	AA	TT	TT	INTERGENIC		
SNP_70525_A_125627	NW_004515845.1	scaffold342	125627	TT	AA	AA	INTERGENIC		
SNP_70526_A_125636	NW_004515845.1	scaffold342	125636	GG	AA	AA	INTERGENIC		
SNP_70527_A_125728	NW_004515845.1	scaffold342	125728	AA	CC	CC	INTERGENIC		
SNP_70528_A_125831	NW_004515845.1	scaffold342	125831	TT	CC	CC	INTERGENIC		
SNP_70529_A_125899	NW_004515845.1	scaffold342	125899	AA	GG	GG	INTERGENIC		
SNP_70530_A_125940	NW_004515845.1	scaffold342	125940	TT	CC	CC	INTERGENIC		
SNP_70531_A_126136	NW_004515845.1	scaffold342	126136	TT	CC	CC	INTERGENIC		
SNP_70532_A_131940	NW_004515845.1	scaffold342	131940	TT	CC	CC	INTERGENIC		
SNP_70533_A_132992	NW_004515845.1	scaffold342	132992	GG	TT	TT	INTERGENIC		
SNP_70534_A_133253	NW_004515845.1	scaffold342	133253	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70535_A_133329	NW_004515845.1	scaffold342	133329	TT	AA	AA	INTERGENIC			
SNP_70536_A_133337	NW_004515845.1	scaffold342	133337	TT	CC	CC	INTERGENIC			
SNP_70537_A_133382	NW_004515845.1	scaffold342	133382	TT	CC	CC	INTERGENIC			
SNP_70538_A_133388	NW_004515845.1	scaffold342	133388	TT	AA	AA	INTERGENIC			
SNP_70539_A_157932	NW_004515845.1	scaffold342	157932	GG	AA	AA	INTERGENIC			
SNP_70541_A_168452	NW_004515845.1	scaffold342	168452	CC	AA	AA	INTERGENIC			
SNP_70542_A_183508	NW_004515845.1	scaffold342	183508	AA	GG	GG	INTERGENIC			
SNP_70543_A_183570	NW_004515845.1	scaffold342	183570	TT	GG	GG	INTERGENIC			
SNP_70544_A_183650	NW_004515845.1	scaffold342	183650	TT	CC	CC	INTERGENIC			
SNP_70545_A_183758	NW_004515845.1	scaffold342	183758	AA	TT	TT	INTERGENIC			
SNP_70546_A_183762	NW_004515845.1	scaffold342	183762	TT	CC	CC	INTERGENIC			
SNP_70547_A_207132	NW_004515845.1	scaffold342	207132	GG	CC	CC	INTERGENIC			
SNP_70548_A_207396	NW_004515845.1	scaffold342	207396	TT	CC	CC	INTERGENIC			
SNP_70549_A_241678	NW_004515845.1	scaffold342	241678	CC	TT	TT	INTERGENIC			
SNP_70550_A_241698	NW_004515845.1	scaffold342	241698	GG	AA	AA	INTERGENIC			
SNP_70553_A_310797	NW_004515845.1	scaffold342	310797	GG	CC	CC	URR	101506070	uncharacterized LOC101506070	
SNP_70554_A_313477	NW_004515845.1	scaffold342	313477	TT	AA	AA	INTERGENIC			
SNP_70555_A_325320	NW_004515845.1	scaffold342	325320	CC	AA	AA	INTERGENIC			
SNP_70556_A_336191	NW_004515845.1	scaffold342	336191	TT	AA	AA	INTERGENIC			
SNP_70557_A_340113	NW_004515845.1	scaffold342	340113	TT	CC	CC	INTERGENIC			
SNP_70558_A_340175	NW_004515845.1	scaffold342	340175	AA	GG	GG	INTERGENIC			
SNP_70559_A_340176	NW_004515845.1	scaffold342	340176	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70560_A_340499	NW_004515845.1	scaffold342	340499	CC	GG	GG	INTERGENIC		
SNP_70562_A_344583	NW_004515845.1	scaffold342	344583	CC	TT	TT	INTERGENIC		
SNP_70563_A_344837	NW_004515845.1	scaffold342	344837	TT	CC	CC	INTERGENIC		
SNP_70564_A_345028	NW_004515845.1	scaffold342	345028	CC	GG	GG	INTERGENIC		
SNP_70565_A_345224	NW_004515845.1	scaffold342	345224	TT	CC	CC	INTERGENIC		
SNP_70566_A_356060	NW_004515845.1	scaffold342	356060	TT	CC	CC	URR	101506602	uncharacterized LOC101506602
SNP_70567_A_356062	NW_004515845.1	scaffold342	356062	CC	AA	AA	URR	101506602	uncharacterized LOC101506602
SNP_70568_A_358888	NW_004515845.1	scaffold342	358888	GG	AA	AA	INTRON	101509911	Unknown function
SNP_70569_A_359214	NW_004515845.1	scaffold342	359214	AA	CC	CC	INTRON	101509911	Unknown function
SNP_70571_A_370710	NW_004515845.1	scaffold342	370710	AA	GG	GG	INTERGENIC		
SNP_70572_A_372349	NW_004515845.1	scaffold342	372349	AA	CC	CC	INTERGENIC		
SNP_70573_A_30176	NW_004515847.1	scaffold346_1	30176	TT	CC	CC	SYNONYMOUS_CODING	101514986	aspartic proteinase-like protein 2
SNP_70574_A_30253	NW_004515847.1	scaffold346_1	30253	TT	CC	CC	INTRON	101514986	aspartic proteinase-like protein 2
SNP_70575_A_41391	NW_004515847.1	scaffold346_1	41391	CC	GG	GG	INTERGENIC		
SNP_70576_A_41581	NW_004515847.1	scaffold346_1	41581	GG	CC	CC	INTERGENIC		
SNP_70577_A_41881	NW_004515847.1	scaffold346_1	41881	CC	TT	TT	INTERGENIC		
SNP_70578_A_41904	NW_004515847.1	scaffold346_1	41904	GG	AA	AA	INTERGENIC		
SNP_70579_A_41984	NW_004515847.1	scaffold346_1	41984	AA	CC	CC	INTERGENIC		
SNP_70580_A_42068	NW_004515847.1	scaffold346_1	42068	GG	CC	CC	INTERGENIC		
SNP_70581_A_42109	NW_004515847.1	scaffold346_1	42109	AA	GG	GG	INTERGENIC		
SNP_70582_A_42134	NW_004515847.1	scaffold346_1	42134	GG	AA	AA	INTERGENIC		
SNP_70583_A_42169	NW_004515847.1	scaffold346_1	42169	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70584_A_42170	NW_004515847.1	scaffold346_1	42170	GG	AA	AA	INTERGENIC		
SNP_70585_A_42281	NW_004515847.1	scaffold346_1	42281	AA	GG	GG	INTERGENIC		
SNP_70586_A_42439	NW_004515847.1	scaffold346_1	42439	GG	TT	TT	DRR	101510564	Unknown function
SNP_70587_A_42521	NW_004515847.1	scaffold346_1	42521	AA	GG	GG	URR	101511001	uncharacterized LOC101511001
SNP_70588_A_42554	NW_004515847.1	scaffold346_1	42554	CC	TT	TT	URR	101511001	uncharacterized LOC101511001
SNP_70589_A_42668	NW_004515847.1	scaffold346_1	42668	CC	TT	TT	URR	101511001	uncharacterized LOC101511001
SNP_70590_A_42864	NW_004515847.1	scaffold346_1	42864	CC	TT	TT	URR	101511001	uncharacterized LOC101511001
SNP_70591_A_78986	NW_004515847.1	scaffold346_1	78986	GG	TT	TT	INTERGENIC		
SNP_70592_A_107939	NW_004515847.1	scaffold346_1	107939	AA	TT	TT	INTRON	101512492	traB domain-containing protein-like
SNP_70594_A_199112	NW_004515847.1	scaffold346_1	199112	TT	CC	CC	INTERGENIC		
SNP_70595_A_199119	NW_004515847.1	scaffold346_1	199119	AA	GG	GG	INTERGENIC		
SNP_70596_A_199245	NW_004515847.1	scaffold346_1	199245	CC	TT	TT	INTERGENIC		
SNP_70597_A_199293	NW_004515847.1	scaffold346_1	199293	GG	AA	AA	INTERGENIC		
SNP_70598_A_199326	NW_004515847.1	scaffold346_1	199326	AA	GG	GG	INTERGENIC		
SNP_70599_A_199449	NW_004515847.1	scaffold346_1	199449	AA	GG	GG	INTERGENIC		
SNP_70600_A_199684	NW_004515847.1	scaffold346_1	199684	AA	GG	GG	INTERGENIC		
SNP_70601_A_256675	NW_004515847.1	scaffold346_1	256675	TT	CC	CC	INTRON	101489709	probable E3 ubiquitin ligase SUD1
SNP_70602_A_264941	NW_004515847.1	scaffold346_1	264941	TT	AA	AA	INTRON	101489709	probable E3 ubiquitin ligase SUD1
SNP_70603_A_306567	NW_004515847.1	scaffold346_1	306567	CC	TT	TT	INTRON	101489709	probable E3 ubiquitin ligase SUD1
SNP_70604_A_1278	NW_004515849.1	scaffold349	1278	AA	CC	CC	INTERGENIC		
SNP_70605_A_1286	NW_004515849.1	scaffold349	1286	GG	AA	AA	INTERGENIC		
SNP_70606_A_67752	NW_004515849.1	scaffold349	67752	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70608_A_91869	NW_004515849.1	scaffold349	91869	GG	CC	CC	INTERGENIC			
SNP_70609_A_91986	NW_004515849.1	scaffold349	91986	AA	CC	CC	INTERGENIC			
SNP_70610_A_92313	NW_004515849.1	scaffold349	92313	AA	GG	GG	INTERGENIC			
SNP_70611_A_98798	NW_004515849.1	scaffold349	98798	GG	TT	TT	INTERGENIC			
SNP_70612_A_145874	NW_004515849.1	scaffold349	145874	GG	AA	AA	INTERGENIC			
SNP_70613_A_159508	NW_004515849.1	scaffold349	159508	GG	TT	TT	INTERGENIC			
SNP_70614_A_159882	NW_004515849.1	scaffold349	159882	TT	CC	CC	INTERGENIC			
SNP_70615_A_159886	NW_004515849.1	scaffold349	159886	AA	GG	GG	INTERGENIC			
SNP_70616_A_160000	NW_004515849.1	scaffold349	160000	AA	TT	TT	INTERGENIC			
SNP_70617_A_160011	NW_004515849.1	scaffold349	160011	CC	TT	TT	INTERGENIC			
SNP_70618_A_160031	NW_004515849.1	scaffold349	160031	TT	CC	CC	INTERGENIC			
SNP_70619_A_160089	NW_004515849.1	scaffold349	160089	AA	GG	GG	INTERGENIC			
SNP_70620_A_177697	NW_004515849.1	scaffold349	177697	GG	AA	AA	INTERGENIC			
SNP_70621_A_177715	NW_004515849.1	scaffold349	177715	TT	CC	CC	INTERGENIC			
SNP_70623_A_178108	NW_004515849.1	scaffold349	178108	CC	TT	TT	INTERGENIC			
SNP_70624_A_222848	NW_004515849.1	scaffold349	222848	AA	TT	TT	INTERGENIC			
SNP_70625_A_238378	NW_004515849.1	scaffold349	238378	TT	AA	AA	INTERGENIC			
SNP_70626_A_238410	NW_004515849.1	scaffold349	238410	CC	TT	TT	INTERGENIC			
SNP_70627_A_238431	NW_004515849.1	scaffold349	238431	AA	GG	GG	INTERGENIC			
SNP_70628_A_238434	NW_004515849.1	scaffold349	238434	TT	CC	CC	INTERGENIC			
SNP_70629_A_238453	NW_004515849.1	scaffold349	238453	CC	TT	TT	INTERGENIC			
SNP_70630_A_238887	NW_004515849.1	scaffold349	238887	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70631_A_238899	NW_004515849.1	scaffold349	238899	TT	CC	CC	INTERGENIC			
SNP_70632_A_295247	NW_004515849.1	scaffold349	295247	TT	CC	CC	INTERGENIC			
SNP_70633_A_335211	NW_004515849.1	scaffold349	335211	GG	AA	AA	INTERGENIC			
SNP_70634_A_335237	NW_004515849.1	scaffold349	335237	GG	AA	AA	INTERGENIC			
SNP_70636_A_5627	NW_004515850.1	scaffold350	5627	AA	TT	TT	INTERGENIC			
SNP_70637_A_5639	NW_004515850.1	scaffold350	5639	GG	AA	AA	INTERGENIC			
SNP_70638_A_42013	NW_004515850.1	scaffold350	42013	GG	AA	AA	INTERGENIC			
SNP_70640_A_69486	NW_004515850.1	scaffold350	69486	CC	GG	GG	INTERGENIC			
SNP_70641_A_69521	NW_004515850.1	scaffold350	69521	AA	CC	CC	INTERGENIC			
SNP_70642_A_69549	NW_004515850.1	scaffold350	69549	CC	TT	TT	INTERGENIC			
SNP_70643_A_69552	NW_004515850.1	scaffold350	69552	GG	AA	AA	INTERGENIC			
SNP_70644_A_69564	NW_004515850.1	scaffold350	69564	CC	TT	TT	INTERGENIC			
SNP_70645_A_69980	NW_004515850.1	scaffold350	69980	TT	CC	CC	INTERGENIC			
SNP_70646_A_70052	NW_004515850.1	scaffold350	70052	CC	TT	TT	INTERGENIC			
SNP_70647_A_86571	NW_004515850.1	scaffold350	86571	TT	CC	CC	INTERGENIC			
SNP_70648_A_86826	NW_004515850.1	scaffold350	86826	TT	GG	GG	INTERGENIC			
SNP_70649_A_86839	NW_004515850.1	scaffold350	86839	AA	GG	GG	INTERGENIC			
SNP_70650_A_111540	NW_004515850.1	scaffold350	111540	TT	CC	CC	INTERGENIC			
SNP_70651_A_165244	NW_004515850.1	scaffold350	165244	GG	CC	CC	DRR	101494351	uncharacterized LOC101494351	
SNP_70653_A_165798	NW_004515850.1	scaffold350	165798	TT	CC	CC	DRR	101494351	uncharacterized LOC101494351	
SNP_70654_A_4388	NW_004515851.1	scaffold351	4388	AA	GG	GG	INTERGENIC			
SNP_70655_A_4414	NW_004515851.1	scaffold351	4414	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70656_A_4743	NW_004515851.1	scaffold351	4743	AA	GG	GG	INTERGENIC		
SNP_70657_A_4760	NW_004515851.1	scaffold351	4760	TT	AA	AA	INTERGENIC		
SNP_70658_A_8263	NW_004515851.1	scaffold351	8263	AA	TT	TT	INTERGENIC		
SNP_70659_A_15725	NW_004515851.1	scaffold351	15725	AA	TT	TT	INTERGENIC		
SNP_70660_A_24268	NW_004515851.1	scaffold351	24268	GG	AA	AA	DRR	101495851	uncharacterized LOC101495851
SNP_70661_A_24285	NW_004515851.1	scaffold351	24285	CC	GG	GG	DRR	101495851	uncharacterized LOC101495851
SNP_70662_A_66533	NW_004515851.1	scaffold351	66533	GG	AA	AA	INTERGENIC		
SNP_70663_A_67199	NW_004515851.1	scaffold351	67199	CC	TT	TT	INTERGENIC		
SNP_70664_A_70946	NW_004515851.1	scaffold351	70946	TT	GG	GG	INTERGENIC		
SNP_70665_A_20927	NW_004515852.1	scaffold352	20927	AA	GG	GG	INTERGENIC		
SNP_70666_A_20952	NW_004515852.1	scaffold352	20952	TT	GG	GG	INTERGENIC		
SNP_70667_A_20958	NW_004515852.1	scaffold352	20958	AA	GG	GG	INTERGENIC		
SNP_70668_A_21219	NW_004515852.1	scaffold352	21219	AA	GG	GG	INTERGENIC		
SNP_70669_A_21344	NW_004515852.1	scaffold352	21344	AA	GG	GG	INTERGENIC		
SNP_70670_A_22275	NW_004515852.1	scaffold352	22275	CC	AA	AA	INTERGENIC		
SNP_70671_A_23106	NW_004515852.1	scaffold352	23106	TT	CC	CC	INTERGENIC		
SNP_70672_A_23223	NW_004515852.1	scaffold352	23223	AA	GG	GG	INTERGENIC		
SNP_70673_A_23238	NW_004515852.1	scaffold352	23238	GG	AA	AA	INTERGENIC		
SNP_70674_A_23291	NW_004515852.1	scaffold352	23291	CC	TT	TT	INTERGENIC		
SNP_70676_A_33799	NW_004515852.1	scaffold352	33799	GG	AA	AA	INTERGENIC		
SNP_70677_A_35193	NW_004515852.1	scaffold352	35193	AA	GG	GG	INTERGENIC		
SNP_70678_A_35197	NW_004515852.1	scaffold352	35197	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70679_A_48759	NW_004515852.1	scaffold352	48759	GG	AA	AA	INTERGENIC			
SNP_70680_A_48783	NW_004515852.1	scaffold352	48783	TT	AA	AA	INTERGENIC			
SNP_70681_A_48787	NW_004515852.1	scaffold352	48787	GG	AA	AA	INTERGENIC			
SNP_70682_A_53683	NW_004515852.1	scaffold352	53683	TT	GG	GG	INTERGENIC			
SNP_70683_A_54815	NW_004515852.1	scaffold352	54815	GG	AA	AA	INTERGENIC			
SNP_70684_A_63811	NW_004515852.1	scaffold352	63811	TT	CC	CC	INTERGENIC			
SNP_70685_A_93604	NW_004515852.1	scaffold352	93604	GG	AA	AA	INTERGENIC			
SNP_70687_A_106702	NW_004515852.1	scaffold352	106702	GG	TT	TT	INTERGENIC			
SNP_70688_A_106721	NW_004515852.1	scaffold352	106721	TT	GG	GG	INTERGENIC			
SNP_70689_A_106773	NW_004515852.1	scaffold352	106773	TT	CC	CC	INTERGENIC			
SNP_70690_A_106775	NW_004515852.1	scaffold352	106775	GG	TT	TT	INTERGENIC			
SNP_70691_A_106820	NW_004515852.1	scaffold352	106820	AA	GG	GG	INTERGENIC			
SNP_70692_A_107908	NW_004515852.1	scaffold352	107908	CC	TT	TT	INTERGENIC			
SNP_70693_A_109087	NW_004515852.1	scaffold352	109087	AA	TT	TT	INTERGENIC			
SNP_70694_A_121103	NW_004515852.1	scaffold352	121103	GG	CC	CC	INTERGENIC			
SNP_70695_A_133447	NW_004515852.1	scaffold352	133447	TT	AA	AA	INTERGENIC			
SNP_70697_A_172571	NW_004515852.1	scaffold352	172571	AA	CC	CC	INTERGENIC			
SNP_70698_A_172628	NW_004515852.1	scaffold352	172628	GG	CC	CC	INTERGENIC			
SNP_70699_A_172666	NW_004515852.1	scaffold352	172666	TT	GG	GG	INTERGENIC			
SNP_70700_A_173059	NW_004515852.1	scaffold352	173059	CC	TT	TT	INTERGENIC			
SNP_70701_A_174544	NW_004515852.1	scaffold352	174544	AA	GG	GG	INTERGENIC			
SNP_70702_A_174548	NW_004515852.1	scaffold352	174548	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70703_A_174549	NW_004515852.1	scaffold352	174549	GG	AA	AA	INTERGENIC		
SNP_70704_A_177507	NW_004515852.1	scaffold352	177507	GG	AA	AA	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70705_A_177578	NW_004515852.1	scaffold352	177578	CC	TT	TT	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70706_A_177643	NW_004515852.1	scaffold352	177643	TT	CC	CC	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70707_A_177875	NW_004515852.1	scaffold352	177875	AA	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70708_A_177908	NW_004515852.1	scaffold352	177908	CC	TT	TT	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70709_A_177951	NW_004515852.1	scaffold352	177951	CC	TT	TT	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70711_A_178017	NW_004515852.1	scaffold352	178017	AA	TT	TT	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70712_A_178129	NW_004515852.1	scaffold352	178129	AA	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70713_A_178191	NW_004515852.1	scaffold352	178191	CC	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70714_A_178247	NW_004515852.1	scaffold352	178247	GG	CC	CC	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70715_A_178351	NW_004515852.1	scaffold352	178351	TT	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70716_A_178473	NW_004515852.1	scaffold352	178473	TT	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70717_A_178478	NW_004515852.1	scaffold352	178478	CC	GG	GG	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70719_A_178720	NW_004515852.1	scaffold352	178720	GG	CC	CC	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70720_A_178739	NW_004515852.1	scaffold352	178739	GG	CC	CC	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70721_A_179013	NW_004515852.1	scaffold352	179013	TT	CC	CC	URR	101497163	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_70722_A_188959	NW_004515852.1	scaffold352	188959	GG	TT	TT	INTERGENIC		
SNP_70723_A_189172	NW_004515852.1	scaffold352	189172	CC	AA	AA	INTERGENIC		
SNP_70724_A_189381	NW_004515852.1	scaffold352	189381	GG	AA	AA	INTERGENIC		
SNP_70725_A_189478	NW_004515852.1	scaffold352	189478	AA	CC	CC	INTERGENIC		
SNP_70726_A_189492	NW_004515852.1	scaffold352	189492	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70727_A_189528	NW_004515852.1	scaffold352	189528	CC	TT	TT	INTERGENIC			
SNP_70728_A_191678	NW_004515852.1	scaffold352	191678	GG	AA	AA	INTERGENIC			
SNP_70729_A_191709	NW_004515852.1	scaffold352	191709	AA	GG	GG	INTERGENIC			
SNP_70730_A_191887	NW_004515852.1	scaffold352	191887	GG	AA	AA	INTERGENIC			
SNP_70731_A_192059	NW_004515852.1	scaffold352	192059	GG	AA	AA	INTERGENIC			
SNP_70733_A_193088	NW_004515852.1	scaffold352	193088	TT	CC	CC	INTERGENIC			
SNP_70734_A_193321	NW_004515852.1	scaffold352	193321	CC	TT	TT	INTERGENIC			
SNP_70735_A_194023	NW_004515852.1	scaffold352	194023	GG	AA	AA	INTERGENIC			
SNP_70736_A_194038	NW_004515852.1	scaffold352	194038	AA	TT	TT	INTERGENIC			
SNP_70737_A_194338	NW_004515852.1	scaffold352	194338	AA	TT	TT	INTERGENIC			
SNP_70738_A_194412	NW_004515852.1	scaffold352	194412	TT	AA	AA	INTERGENIC			
SNP_70739_A_194555	NW_004515852.1	scaffold352	194555	CC	TT	TT	INTERGENIC			
SNP_70740_A_31175	NW_004515853.1	scaffold353	31175	AA	CC	CC	INTERGENIC			
SNP_70741_A_59153	NW_004515853.1	scaffold353	59153	TT	CC	CC	INTERGENIC			
SNP_70742_A_59182	NW_004515853.1	scaffold353	59182	GG	AA	AA	INTERGENIC			
SNP_70743_A_999	NW_004515855.1	scaffold355	999	AA	CC	CC	INTERGENIC			
SNP_70744_A_1055	NW_004515855.1	scaffold355	1055	GG	AA	AA	INTERGENIC			
SNP_70746_A_1433	NW_004515855.1	scaffold355	1433	CC	TT	TT	INTERGENIC			
SNP_70747_A_1446	NW_004515855.1	scaffold355	1446	GG	AA	AA	INTERGENIC			
SNP_70748_A_15722	NW_004515855.1	scaffold355	15722	TT	AA	AA	INTERGENIC			
SNP_70749_A_15759	NW_004515855.1	scaffold355	15759	CC	AA	AA	INTERGENIC			
SNP_70750_A_16039	NW_004515855.1	scaffold355	16039	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70751_A_16875	NW_004515855.1	scaffold355	16875	CC	TT	TT	INTERGENIC			
SNP_70752_A_51979	NW_004515855.1	scaffold355	51979	TT	CC	CC	INTERGENIC			
SNP_70753_A_59208	NW_004515855.1	scaffold355	59208	TT	CC	CC	INTERGENIC			
SNP_70754_A_86555	NW_004515855.1	scaffold355	86555	TT	CC	CC	INTERGENIC			
SNP_70755_A_86567	NW_004515855.1	scaffold355	86567	AA	GG	GG	INTERGENIC			
SNP_70756_A_86570	NW_004515855.1	scaffold355	86570	CC	GG	GG	INTERGENIC			
SNP_70757_A_86659	NW_004515855.1	scaffold355	86659	AA	CC	CC	INTERGENIC			
SNP_70758_A_86698	NW_004515855.1	scaffold355	86698	TT	CC	CC	INTERGENIC			
SNP_70759_A_86724	NW_004515855.1	scaffold355	86724	AA	GG	GG	INTERGENIC			
SNP_70760_A_86899	NW_004515855.1	scaffold355	86899	AA	CC	CC	INTERGENIC			
SNP_70761_A_87056	NW_004515855.1	scaffold355	87056	TT	AA	AA	INTERGENIC			
SNP_70762_A_88592	NW_004515855.1	scaffold355	88592	CC	AA	AA	INTERGENIC			
SNP_70763_A_88609	NW_004515855.1	scaffold355	88609	AA	GG	GG	INTERGENIC			
SNP_70764_A_88619	NW_004515855.1	scaffold355	88619	TT	CC	CC	INTERGENIC			
SNP_70765_A_88620	NW_004515855.1	scaffold355	88620	CC	TT	TT	INTERGENIC			
SNP_70766_A_88630	NW_004515855.1	scaffold355	88630	CC	GG	GG	INTERGENIC			
SNP_70767_A_88647	NW_004515855.1	scaffold355	88647	TT	CC	CC	INTERGENIC			
SNP_70768_A_88694	NW_004515855.1	scaffold355	88694	AA	GG	GG	INTERGENIC			
SNP_70769_A_1635	NW_004515856.1	scaffold357	1635	CC	TT	TT	INTERGENIC			
SNP_70770_A_1651	NW_004515856.1	scaffold357	1651	CC	AA	AA	INTERGENIC			
SNP_70771_A_1656	NW_004515856.1	scaffold357	1656	CC	GG	GG	INTERGENIC			
SNP_70772_A_1661	NW_004515856.1	scaffold357	1661	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70773_A_1712	NW_004515856.1	scaffold357	1712	AA	TT	TT	INTERGENIC			
SNP_70774_A_1763	NW_004515856.1	scaffold357	1763	AA	TT	TT	INTERGENIC			
SNP_70775_A_1854	NW_004515856.1	scaffold357	1854	GG	AA	AA	INTERGENIC			
SNP_70776_A_1860	NW_004515856.1	scaffold357	1860	TT	GG	GG	INTERGENIC			
SNP_70777_A_1885	NW_004515856.1	scaffold357	1885	AA	GG	GG	INTERGENIC			
SNP_70778_A_1910	NW_004515856.1	scaffold357	1910	AA	CC	CC	INTERGENIC			
SNP_70779_A_1963	NW_004515856.1	scaffold357	1963	TT	AA	AA	INTERGENIC			
SNP_70780_A_13845	NW_004515858.1	scaffold362	13845	AA	CC	CC	INTERGENIC			
SNP_70781_A_14159	NW_004515858.1	scaffold362	14159	TT	CC	CC	INTERGENIC			
SNP_70782_A_14187	NW_004515858.1	scaffold362	14187	AA	GG	GG	INTERGENIC			
SNP_70783_A_15577	NW_004515858.1	scaffold362	15577	AA	GG	GG	INTERGENIC			
SNP_70784_A_15600	NW_004515858.1	scaffold362	15600	CC	AA	AA	INTERGENIC			
SNP_70785_A_18306	NW_004515858.1	scaffold362	18306	TT	CC	CC	INTERGENIC			
SNP_70787_A_80535	NW_004515858.1	scaffold362	80535	CC	TT	TT	INTERGENIC			
SNP_70788_A_80662	NW_004515858.1	scaffold362	80662	TT	CC	CC	INTERGENIC			
SNP_70789_A_80714	NW_004515858.1	scaffold362	80714	TT	CC	CC	INTERGENIC			
SNP_70790_A_80883	NW_004515858.1	scaffold362	80883	GG	AA	AA	INTERGENIC			
SNP_70791_A_80911	NW_004515858.1	scaffold362	80911	AA	GG	GG	INTERGENIC			
SNP_70792_A_80924	NW_004515858.1	scaffold362	80924	TT	AA	AA	INTERGENIC			
SNP_70793_A_81024	NW_004515858.1	scaffold362	81024	CC	TT	TT	INTERGENIC			
SNP_70794_A_81057	NW_004515858.1	scaffold362	81057	CC	AA	AA	INTERGENIC			
SNP_70795_A_81070	NW_004515858.1	scaffold362	81070	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70796_A_81089	NW_004515858.1	scaffold362	81089	TT	CC	CC	INTERGENIC		
SNP_70797_A_84382	NW_004515858.1	scaffold362	84382	CC	AA	AA	INTERGENIC		
SNP_70798_A_131348	NW_004515858.1	scaffold362	131348	CC	AA	AA	INTERGENIC		
SNP_70800_A_149311	NW_004515858.1	scaffold362	149311	TT	AA	AA	DRR	101501782	Unknown function
SNP_70801_A_163844	NW_004515858.1	scaffold362	163844	AA	GG	GG	INTERGENIC		
SNP_70802_A_166063	NW_004515858.1	scaffold362	166063	CC	AA	AA	URR	101502106	aldehyde dehydrogenase family 3 member H1-like
SNP_70803_A_166243	NW_004515858.1	scaffold362	166243	TT	AA	AA	URR	101502106	aldehyde dehydrogenase family 3 member H1-like
SNP_70805_A_166535	NW_004515858.1	scaffold362	166535	CC	AA	AA	URR	101502106	aldehyde dehydrogenase family 3 member H1-like
SNP_70806_A_166584	NW_004515858.1	scaffold362	166584	TT	AA	AA	URR	101502106	aldehyde dehydrogenase family 3 member H1-like
SNP_70807_A_166636	NW_004515858.1	scaffold362	166636	AA	GG	GG	URR	101502106	aldehyde dehydrogenase family 3 member H1-like
SNP_70808_A_180022	NW_004515858.1	scaffold362	180022	TT	CC	CC	INTERGENIC		
SNP_70809_A_195781	NW_004515858.1	scaffold362	195781	AA	GG	GG	INTERGENIC		
SNP_70810_A_196456	NW_004515858.1	scaffold362	196456	AA	GG	GG	INTERGENIC		
SNP_70812_A_263891	NW_004515858.1	scaffold362	263891	CC	AA	AA	INTERGENIC		
SNP_70813_A_264263	NW_004515858.1	scaffold362	264263	GG	TT	TT	INTERGENIC		
SNP_70815_A_321068	NW_004515858.1	scaffold362	321068	AA	TT	TT	DRR	101499559	putative lipid-transfer protein DIR1
SNP_70816_A_342324	NW_004515858.1	scaffold362	342324	GG	AA	AA	URR	101499857	uncharacterized LOC101499857
SNP_70817_A_374761	NW_004515858.1	scaffold362	374761	GG	TT	TT	INTERGENIC		
SNP_70818_A_392125	NW_004515858.1	scaffold362	392125	TT	CC	CC	INTERGENIC		
SNP_70819_A_257	NW_004515859.1	scaffold363	257	TT	CC	CC	INTERGENIC		
SNP_70820_A_334	NW_004515859.1	scaffold363	334	CC	GG	GG	INTERGENIC		
SNP_70821_A_368	NW_004515859.1	scaffold363	368	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70822_A_724	NW_004515859.1	scaffold363	724	GG	TT	TT	INTERGENIC			
SNP_70823_A_734	NW_004515859.1	scaffold363	734	CC	TT	TT	INTERGENIC			
SNP_70826_A_85727	NW_004515859.1	scaffold363	85727	CC	GG	GG	INTERGENIC			
SNP_70827_A_85772	NW_004515859.1	scaffold363	85772	AA	GG	GG	INTERGENIC			
SNP_70828_A_85864	NW_004515859.1	scaffold363	85864	TT	GG	GG	INTERGENIC			
SNP_70829_A_96420	NW_004515859.1	scaffold363	96420	TT	CC	CC	INTERGENIC			
SNP_70830_A_96421	NW_004515859.1	scaffold363	96421	GG	TT	TT	INTERGENIC			
SNP_70831_A_96455	NW_004515859.1	scaffold363	96455	AA	GG	GG	INTERGENIC			
SNP_70832_A_96461	NW_004515859.1	scaffold363	96461	TT	AA	AA	INTERGENIC			
SNP_70833_A_96477	NW_004515859.1	scaffold363	96477	GG	TT	TT	INTERGENIC			
SNP_70834_A_96501	NW_004515859.1	scaffold363	96501	AA	TT	TT	INTERGENIC			
SNP_70835_A_96515	NW_004515859.1	scaffold363	96515	CC	TT	TT	INTERGENIC			
SNP_70836_A_96560	NW_004515859.1	scaffold363	96560	GG	AA	AA	INTERGENIC			
SNP_70837_A_96561	NW_004515859.1	scaffold363	96561	CC	TT	TT	INTERGENIC			
SNP_70838_A_96566	NW_004515859.1	scaffold363	96566	CC	TT	TT	INTERGENIC			
SNP_70839_A_96581	NW_004515859.1	scaffold363	96581	TT	CC	CC	INTERGENIC			
SNP_70840_A_96587	NW_004515859.1	scaffold363	96587	AA	GG	GG	INTERGENIC			
SNP_70841_A_96602	NW_004515859.1	scaffold363	96602	TT	AA	AA	INTERGENIC			
SNP_70844_A_96730	NW_004515859.1	scaffold363	96730	GG	AA	AA	INTERGENIC			
SNP_70845_A_96768	NW_004515859.1	scaffold363	96768	TT	CC	CC	INTERGENIC			
SNP_70846_A_96900	NW_004515859.1	scaffold363	96900	TT	GG	GG	INTERGENIC			
SNP_70847_A_96909	NW_004515859.1	scaffold363	96909	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70848_A_96914	NW_004515859.1	scaffold363	96914	CC	TT	TT	INTERGENIC		
SNP_70849_A_96919	NW_004515859.1	scaffold363	96919	TT	CC	CC	INTERGENIC		
SNP_70850_A_34322	NW_004515861.1	scaffold366	34322	AA	GG	GG	INTERGENIC		
SNP_70851_A_34405	NW_004515861.1	scaffold366	34405	GG	AA	AA	INTERGENIC		
SNP_70852_A_68167	NW_004515861.1	scaffold366	68167	GG	AA	AA	INTRON	101507052	uncharacterized LOC101507052
SNP_70853_A_68468	NW_004515861.1	scaffold366	68468	TT	CC	CC	INTRON	101507052	uncharacterized LOC101507052
SNP_70854_A_107525	NW_004515861.1	scaffold366	107525	CC	TT	TT	INTERGENIC		
SNP_70855_A_107629	NW_004515861.1	scaffold366	107629	AA	GG	GG	INTERGENIC		
SNP_70856_A_107639	NW_004515861.1	scaffold366	107639	CC	GG	GG	INTERGENIC		
SNP_70857_A_107946	NW_004515861.1	scaffold366	107946	GG	TT	TT	INTERGENIC		
SNP_70858_A_108079	NW_004515861.1	scaffold366	108079	CC	TT	TT	INTERGENIC		
SNP_70859_A_108082	NW_004515861.1	scaffold366	108082	GG	AA	AA	INTERGENIC		
SNP_70860_A_156016	NW_004515861.1	scaffold366	156016	CC	TT	TT	INTERGENIC		
SNP_70861_A_156163	NW_004515861.1	scaffold366	156163	TT	CC	CC	INTERGENIC		
SNP_70862_A_156167	NW_004515861.1	scaffold366	156167	GG	AA	AA	INTERGENIC		
SNP_70863_A_168379	NW_004515861.1	scaffold366	168379	CC	AA	AA	INTERGENIC		
SNP_70864_A_2644	NW_004515862.1	scaffold367	2644	TT	CC	CC	INTERGENIC		
SNP_70866_A_6667	NW_004515862.1	scaffold367	6667	TT	AA	AA	NON_SYNONYMOUS_CODING	101507682	uncharacterized LOC101507682
SNP_70867_A_6698	NW_004515862.1	scaffold367	6698	GG	TT	TT	INTRON	101507682	uncharacterized LOC101507682
SNP_70868_A_6727	NW_004515862.1	scaffold367	6727	CC	TT	TT	INTRON	101507682	uncharacterized LOC101507682
SNP_70869_A_6737	NW_004515862.1	scaffold367	6737	TT	GG	GG	INTRON	101507682	uncharacterized LOC101507682
SNP_70870_A_15290	NW_004515862.1	scaffold367	15290	AA	TT	TT	URR	101508008	uncharacterized LOC101508008

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70872_A_19728	NW_004515862.1	scaffold367	19728	CC	TT	TT	INTERGENIC			
SNP_70873_A_20090	NW_004515862.1	scaffold367	20090	TT	CC	CC	INTERGENIC			
SNP_70874_A_20095	NW_004515862.1	scaffold367	20095	TT	CC	CC	INTERGENIC			
SNP_70875_A_20110	NW_004515862.1	scaffold367	20110	GG	AA	AA	INTERGENIC			
SNP_70876_A_20205	NW_004515862.1	scaffold367	20205	TT	AA	AA	INTERGENIC			
SNP_70877_A_20215	NW_004515862.1	scaffold367	20215	CC	AA	AA	INTERGENIC			
SNP_70878_A_24636	NW_004515862.1	scaffold367	24636	AA	GG	GG	INTERGENIC			
SNP_70879_A_25126	NW_004515862.1	scaffold367	25126	TT	AA	AA	INTERGENIC			
SNP_70880_A_25200	NW_004515862.1	scaffold367	25200	TT	CC	CC	INTERGENIC			
SNP_70881_A_25222	NW_004515862.1	scaffold367	25222	TT	CC	CC	INTERGENIC			
SNP_70882_A_34550	NW_004515862.1	scaffold367	34550	CC	TT	TT	INTERGENIC			
SNP_70883_A_34559	NW_004515862.1	scaffold367	34559	CC	TT	TT	INTERGENIC			
SNP_70884_A_45300	NW_004515862.1	scaffold367	45300	AA	GG	GG	URR	101508318	basic 7S globulin-like	
SNP_70885_A_45307	NW_004515862.1	scaffold367	45307	CC	AA	AA	URR	101508318	basic 7S globulin-like	
SNP_70886_A_45403	NW_004515862.1	scaffold367	45403	TT	GG	GG	URR	101508318	basic 7S globulin-like	
SNP_70887_A_45413	NW_004515862.1	scaffold367	45413	AA	GG	GG	URR	101508318	basic 7S globulin-like	
SNP_70888_A_51407	NW_004515862.1	scaffold367	51407	CC	TT	TT	INTERGENIC			
SNP_70889_A_51439	NW_004515862.1	scaffold367	51439	TT	GG	GG	INTERGENIC			
SNP_70890_A_51452	NW_004515862.1	scaffold367	51452	AA	CC	CC	INTERGENIC			
SNP_70891_A_51465	NW_004515862.1	scaffold367	51465	GG	AA	AA	INTERGENIC			
SNP_70892_A_51474	NW_004515862.1	scaffold367	51474	GG	TT	TT	INTERGENIC			
SNP_70893_A_51493	NW_004515862.1	scaffold367	51493	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_70894_A_51519	NW_004515862.1	scaffold367	51519	CC	TT	TT	INTERGENIC		
SNP_70895_A_51552	NW_004515862.1	scaffold367	51552	TT	AA	AA	INTERGENIC		
SNP_70896_A_51565	NW_004515862.1	scaffold367	51565	GG	CC	CC	INTERGENIC		
SNP_70897_A_51613	NW_004515862.1	scaffold367	51613	TT	CC	CC	INTERGENIC		
SNP_70898_A_52450	NW_004515862.1	scaffold367	52450	AA	GG	GG	INTERGENIC		
SNP_70899_A_52497	NW_004515862.1	scaffold367	52497	TT	AA	AA	INTERGENIC		
SNP_70900_A_52539	NW_004515862.1	scaffold367	52539	GG	CC	CC	INTERGENIC		
SNP_70901_A_55744	NW_004515862.1	scaffold367	55744	AA	CC	CC	INTERGENIC		
SNP_70902_A_55811	NW_004515862.1	scaffold367	55811	TT	CC	CC	INTERGENIC		
SNP_70903_A_61872	NW_004515862.1	scaffold367	61872	CC	TT	TT	INTERGENIC		
SNP_70904_A_62128	NW_004515862.1	scaffold367	62128	AA	GG	GG	INTERGENIC		
SNP_70905_A_67713	NW_004515862.1	scaffold367	67713	AA	GG	GG	INTERGENIC		
SNP_70906_A_72151	NW_004515862.1	scaffold367	72151	AA	TT	TT	INTERGENIC		
SNP_70907_A_72175	NW_004515862.1	scaffold367	72175	CC	GG	GG	INTERGENIC		
SNP_70908_A_72195	NW_004515862.1	scaffold367	72195	AA	CC	CC	INTERGENIC		
SNP_70909_A_72278	NW_004515862.1	scaffold367	72278	AA	GG	GG	INTERGENIC		
SNP_70910_A_72284	NW_004515862.1	scaffold367	72284	TT	CC	CC	INTERGENIC		
SNP_70911_A_72306	NW_004515862.1	scaffold367	72306	TT	CC	CC	INTERGENIC		
SNP_70912_A_79012	NW_004515862.1	scaffold367	79012	GG	AA	AA	INTRON	101508635	basic 7S globulin 2-like
SNP_70913_A_79352	NW_004515862.1	scaffold367	79352	AA	GG	GG	INTRON	101508635	basic 7S globulin 2-like
SNP_70914_A_79378	NW_004515862.1	scaffold367	79378	TT	CC	CC	INTRON	101508635	basic 7S globulin 2-like
SNP_70915_A_79380	NW_004515862.1	scaffold367	79380	CC	AA	AA	INTRON	101508635	basic 7S globulin 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70916_A_89728	NW_004515862.1	scaffold367	89728	AA	GG	GG	INTERGENIC			
SNP_70917_A_89733	NW_004515862.1	scaffold367	89733	AA	GG	GG	INTERGENIC			
SNP_70918_A_92781	NW_004515862.1	scaffold367	92781	CC	TT	TT	INTERGENIC			
SNP_70919_A_107126	NW_004515862.1	scaffold367	107126	AA	GG	GG	INTERGENIC			
SNP_70920_A_119149	NW_004515862.1	scaffold367	119149	TT	AA	AA	INTERGENIC			
SNP_70921_A_119179	NW_004515862.1	scaffold367	119179	TT	CC	CC	INTERGENIC			
SNP_70922_A_119777	NW_004515862.1	scaffold367	119777	TT	CC	CC	INTERGENIC			
SNP_70923_A_119784	NW_004515862.1	scaffold367	119784	TT	GG	GG	INTERGENIC			
SNP_70924_A_119791	NW_004515862.1	scaffold367	119791	AA	GG	GG	INTERGENIC			
SNP_70925_A_119802	NW_004515862.1	scaffold367	119802	GG	AA	AA	INTERGENIC			
SNP_70927_A_119831	NW_004515862.1	scaffold367	119831	TT	GG	GG	INTERGENIC			
SNP_70928_A_133841	NW_004515862.1	scaffold367	133841	AA	GG	GG	INTERGENIC			
SNP_70929_A_149394	NW_004515862.1	scaffold367	149394	CC	GG	GG	URR	101509267	F-box protein CPR30-like	
SNP_70930_A_663	NW_004515863.1	scaffold369	663	AA	GG	GG	INTERGENIC			
SNP_70931_A_11369	NW_004515863.1	scaffold369	11369	AA	GG	GG	URR	101509913	probable pectate lyase 4	
SNP_70932_A_11377	NW_004515863.1	scaffold369	11377	GG	AA	AA	URR	101509913	probable pectate lyase 4	
SNP_70933_A_15892	NW_004515863.1	scaffold369	15892	CC	TT	TT	INTERGENIC			
SNP_70935_A_79536	NW_004515863.1	scaffold369	79536	TT	CC	CC	INTERGENIC			
SNP_70936_A_153109	NW_004515863.1	scaffold369	153109	AA	GG	GG	INTERGENIC			
SNP_70937_A_20985	NW_004515864.1	scaffold370	20985	AA	GG	GG	INTERGENIC			
SNP_70938_A_20993	NW_004515864.1	scaffold370	20993	TT	GG	GG	INTERGENIC			
SNP_70939_A_23510	NW_004515864.1	scaffold370	23510	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70940_A_23549	NW_004515864.1	scaffold370	23549	GG	CC	CC	INTERGENIC			
SNP_70941_A_23833	NW_004515864.1	scaffold370	23833	CC	AA	AA	INTERGENIC			
SNP_70942_A_28971	NW_004515864.1	scaffold370	28971	CC	TT	TT	INTERGENIC			
SNP_70943_A_28995	NW_004515864.1	scaffold370	28995	TT	CC	CC	INTERGENIC			
SNP_70944_A_29007	NW_004515864.1	scaffold370	29007	TT	AA	AA	INTERGENIC			
SNP_70945_A_29075	NW_004515864.1	scaffold370	29075	GG	AA	AA	INTERGENIC			
SNP_70946_A_29081	NW_004515864.1	scaffold370	29081	TT	CC	CC	INTERGENIC			
SNP_70947_A_29170	NW_004515864.1	scaffold370	29170	CC	TT	TT	INTERGENIC			
SNP_70948_A_29280	NW_004515864.1	scaffold370	29280	AA	GG	GG	INTERGENIC			
SNP_70949_A_29315	NW_004515864.1	scaffold370	29315	GG	CC	CC	INTERGENIC			
SNP_70950_A_29353	NW_004515864.1	scaffold370	29353	CC	TT	TT	INTERGENIC			
SNP_70951_A_29372	NW_004515864.1	scaffold370	29372	CC	AA	AA	INTERGENIC			
SNP_70952_A_29522	NW_004515864.1	scaffold370	29522	AA	TT	TT	INTERGENIC			
SNP_70953_A_29593	NW_004515864.1	scaffold370	29593	AA	GG	GG	INTERGENIC			
SNP_70954_A_29599	NW_004515864.1	scaffold370	29599	AA	GG	GG	INTERGENIC			
SNP_70955_A_29606	NW_004515864.1	scaffold370	29606	CC	TT	TT	INTERGENIC			
SNP_70956_A_29753	NW_004515864.1	scaffold370	29753	AA	GG	GG	INTERGENIC			
SNP_70957_A_29815	NW_004515864.1	scaffold370	29815	CC	AA	AA	INTERGENIC			
SNP_70958_A_31759	NW_004515864.1	scaffold370	31759	TT	CC	CC	INTERGENIC			
SNP_70959_A_32002	NW_004515864.1	scaffold370	32002	TT	CC	CC	INTERGENIC			
SNP_70960_A_32087	NW_004515864.1	scaffold370	32087	AA	TT	TT	INTERGENIC			
SNP_70961_A_32120	NW_004515864.1	scaffold370	32120	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70962_A_32362	NW_004515864.1	scaffold370	32362	TT	CC	CC	INTERGENIC			
SNP_70963_A_32400	NW_004515864.1	scaffold370	32400	TT	CC	CC	INTERGENIC			
SNP_70964_A_32405	NW_004515864.1	scaffold370	32405	CC	GG	GG	INTERGENIC			
SNP_70965_A_32419	NW_004515864.1	scaffold370	32419	AA	GG	GG	INTERGENIC			
SNP_70966_A_32429	NW_004515864.1	scaffold370	32429	CC	AA	AA	INTERGENIC			
SNP_70967_A_32430	NW_004515864.1	scaffold370	32430	CC	AA	AA	INTERGENIC			
SNP_70968_A_32613	NW_004515864.1	scaffold370	32613	TT	GG	GG	INTERGENIC			
SNP_70969_A_32646	NW_004515864.1	scaffold370	32646	GG	AA	AA	INTERGENIC			
SNP_70970_A_32648	NW_004515864.1	scaffold370	32648	CC	TT	TT	INTERGENIC			
SNP_70971_A_32757	NW_004515864.1	scaffold370	32757	AA	GG	GG	INTERGENIC			
SNP_70972_A_33947	NW_004515864.1	scaffold370	33947	AA	GG	GG	INTERGENIC			
SNP_70973_A_34053	NW_004515864.1	scaffold370	34053	CC	TT	TT	INTERGENIC			
SNP_70974_A_34192	NW_004515864.1	scaffold370	34192	GG	AA	AA	INTERGENIC			
SNP_70975_A_34353	NW_004515864.1	scaffold370	34353	TT	AA	AA	INTERGENIC			
SNP_70976_A_34388	NW_004515864.1	scaffold370	34388	AA	TT	TT	INTERGENIC			
SNP_70977_A_34442	NW_004515864.1	scaffold370	34442	CC	TT	TT	INTERGENIC			
SNP_70978_A_34479	NW_004515864.1	scaffold370	34479	CC	TT	TT	INTERGENIC			
SNP_70979_A_34504	NW_004515864.1	scaffold370	34504	CC	TT	TT	INTERGENIC			
SNP_70980_A_34610	NW_004515864.1	scaffold370	34610	TT	CC	CC	INTERGENIC			
SNP_70981_A_34678	NW_004515864.1	scaffold370	34678	CC	TT	TT	INTERGENIC			
SNP_70982_A_34746	NW_004515864.1	scaffold370	34746	TT	GG	GG	INTERGENIC			
SNP_70983_A_34754	NW_004515864.1	scaffold370	34754	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_70984_A_34762	NW_004515864.1	scaffold370	34762	AA	GG	GG	INTERGENIC			
SNP_70985_A_34773	NW_004515864.1	scaffold370	34773	TT	CC	CC	INTERGENIC			
SNP_70986_A_34979	NW_004515864.1	scaffold370	34979	CC	AA	AA	INTERGENIC			
SNP_70987_A_35081	NW_004515864.1	scaffold370	35081	GG	AA	AA	INTERGENIC			
SNP_70988_A_35363	NW_004515864.1	scaffold370	35363	CC	TT	TT	INTERGENIC			
SNP_70989_A_35420	NW_004515864.1	scaffold370	35420	CC	TT	TT	INTERGENIC			
SNP_70990_A_35461	NW_004515864.1	scaffold370	35461	AA	CC	CC	INTERGENIC			
SNP_70991_A_35479	NW_004515864.1	scaffold370	35479	AA	GG	GG	INTERGENIC			
SNP_70992_A_35741	NW_004515864.1	scaffold370	35741	GG	TT	TT	INTERGENIC			
SNP_70993_A_35752	NW_004515864.1	scaffold370	35752	AA	CC	CC	INTERGENIC			
SNP_70994_A_35824	NW_004515864.1	scaffold370	35824	GG	AA	AA	INTERGENIC			
SNP_70995_A_35865	NW_004515864.1	scaffold370	35865	CC	TT	TT	INTERGENIC			
SNP_70996_A_35868	NW_004515864.1	scaffold370	35868	TT	CC	CC	INTERGENIC			
SNP_70997_A_36003	NW_004515864.1	scaffold370	36003	TT	CC	CC	INTERGENIC			
SNP_70998_A_36033	NW_004515864.1	scaffold370	36033	AA	GG	GG	INTERGENIC			
SNP_70999_A_36056	NW_004515864.1	scaffold370	36056	GG	TT	TT	INTERGENIC			
SNP_71000_A_36078	NW_004515864.1	scaffold370	36078	CC	GG	GG	INTERGENIC			
SNP_71001_A_36728	NW_004515864.1	scaffold370	36728	CC	TT	TT	INTERGENIC			
SNP_71002_A_36757	NW_004515864.1	scaffold370	36757	AA	GG	GG	INTERGENIC			
SNP_71003_A_36843	NW_004515864.1	scaffold370	36843	CC	AA	AA	INTERGENIC			
SNP_71004_A_36881	NW_004515864.1	scaffold370	36881	AA	GG	GG	INTERGENIC			
SNP_71005_A_36922	NW_004515864.1	scaffold370	36922	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71006_A_37008	NW_004515864.1	scaffold370	37008	AA	CC	CC	INTERGENIC			
SNP_71007_A_37065	NW_004515864.1	scaffold370	37065	TT	CC	CC	INTERGENIC			
SNP_71008_A_37073	NW_004515864.1	scaffold370	37073	AA	GG	GG	INTERGENIC			
SNP_71009_A_37122	NW_004515864.1	scaffold370	37122	TT	CC	CC	INTERGENIC			
SNP_71010_A_37273	NW_004515864.1	scaffold370	37273	GG	AA	AA	INTERGENIC			
SNP_71011_A_37738	NW_004515864.1	scaffold370	37738	GG	AA	AA	INTERGENIC			
SNP_71013_A_37882	NW_004515864.1	scaffold370	37882	AA	CC	CC	INTERGENIC			
SNP_71014_A_37912	NW_004515864.1	scaffold370	37912	GG	AA	AA	INTERGENIC			
SNP_71015_A_37950	NW_004515864.1	scaffold370	37950	CC	TT	TT	INTERGENIC			
SNP_71016_A_38006	NW_004515864.1	scaffold370	38006	AA	TT	TT	INTERGENIC			
SNP_71017_A_38053	NW_004515864.1	scaffold370	38053	CC	TT	TT	INTERGENIC			
SNP_71018_A_38054	NW_004515864.1	scaffold370	38054	TT	CC	CC	INTERGENIC			
SNP_71019_A_38065	NW_004515864.1	scaffold370	38065	GG	TT	TT	INTERGENIC			
SNP_71020_A_38069	NW_004515864.1	scaffold370	38069	CC	AA	AA	INTERGENIC			
SNP_71021_A_38074	NW_004515864.1	scaffold370	38074	TT	GG	GG	INTERGENIC			
SNP_71022_A_38099	NW_004515864.1	scaffold370	38099	GG	CC	CC	INTERGENIC			
SNP_71023_A_38157	NW_004515864.1	scaffold370	38157	TT	CC	CC	INTERGENIC			
SNP_71024_A_38180	NW_004515864.1	scaffold370	38180	TT	AA	AA	INTERGENIC			
SNP_71025_A_38192	NW_004515864.1	scaffold370	38192	TT	CC	CC	INTERGENIC			
SNP_71026_A_38261	NW_004515864.1	scaffold370	38261	GG	TT	TT	INTERGENIC			
SNP_71027_A_38263	NW_004515864.1	scaffold370	38263	TT	CC	CC	INTERGENIC			
SNP_71028_A_38349	NW_004515864.1	scaffold370	38349	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71029_A_38352	NW_004515864.1	scaffold370	38352	GG	AA	AA	INTERGENIC			
SNP_71030_A_38430	NW_004515864.1	scaffold370	38430	TT	CC	CC	INTERGENIC			
SNP_71031_A_38477	NW_004515864.1	scaffold370	38477	TT	CC	CC	INTERGENIC			
SNP_71032_A_38565	NW_004515864.1	scaffold370	38565	CC	AA	AA	INTERGENIC			
SNP_71033_A_39992	NW_004515864.1	scaffold370	39992	GG	TT	TT	INTERGENIC			
SNP_71034_A_40009	NW_004515864.1	scaffold370	40009	GG	CC	CC	INTERGENIC			
SNP_71035_A_40024	NW_004515864.1	scaffold370	40024	TT	GG	GG	INTERGENIC			
SNP_71036_A_40142	NW_004515864.1	scaffold370	40142	GG	AA	AA	INTERGENIC			
SNP_71037_A_40149	NW_004515864.1	scaffold370	40149	GG	AA	AA	INTERGENIC			
SNP_71038_A_40154	NW_004515864.1	scaffold370	40154	AA	GG	GG	INTERGENIC			
SNP_71039_A_40196	NW_004515864.1	scaffold370	40196	AA	GG	GG	INTERGENIC			
SNP_71040_A_40215	NW_004515864.1	scaffold370	40215	TT	CC	CC	INTERGENIC			
SNP_71041_A_40273	NW_004515864.1	scaffold370	40273	AA	CC	CC	INTERGENIC			
SNP_71042_A_40351	NW_004515864.1	scaffold370	40351	AA	GG	GG	INTERGENIC			
SNP_71043_A_40404	NW_004515864.1	scaffold370	40404	TT	CC	CC	INTERGENIC			
SNP_71044_A_40440	NW_004515864.1	scaffold370	40440	CC	GG	GG	INTERGENIC			
SNP_71045_A_40442	NW_004515864.1	scaffold370	40442	CC	TT	TT	INTERGENIC			
SNP_71046_A_40445	NW_004515864.1	scaffold370	40445	TT	CC	CC	INTERGENIC			
SNP_71047_A_40458	NW_004515864.1	scaffold370	40458	TT	AA	AA	INTERGENIC			
SNP_71048_A_40604	NW_004515864.1	scaffold370	40604	GG	AA	AA	INTERGENIC			
SNP_71049_A_41665	NW_004515864.1	scaffold370	41665	GG	AA	AA	INTERGENIC			
SNP_71050_A_43528	NW_004515864.1	scaffold370	43528	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71051_A_43547	NW_004515864.1	scaffold370	43547	AA	GG	GG	INTERGENIC			
SNP_71052_A_43609	NW_004515864.1	scaffold370	43609	GG	AA	AA	INTERGENIC			
SNP_71053_A_43631	NW_004515864.1	scaffold370	43631	TT	CC	CC	INTERGENIC			
SNP_71054_A_43644	NW_004515864.1	scaffold370	43644	TT	CC	CC	INTERGENIC			
SNP_71055_A_44406	NW_004515864.1	scaffold370	44406	GG	AA	AA	INTERGENIC			
SNP_71056_A_45128	NW_004515864.1	scaffold370	45128	GG	TT	TT	INTERGENIC			
SNP_71057_A_45144	NW_004515864.1	scaffold370	45144	CC	TT	TT	INTERGENIC			
SNP_71058_A_45467	NW_004515864.1	scaffold370	45467	GG	AA	AA	INTERGENIC			
SNP_71059_A_45477	NW_004515864.1	scaffold370	45477	CC	AA	AA	INTERGENIC			
SNP_71060_A_45481	NW_004515864.1	scaffold370	45481	GG	AA	AA	INTERGENIC			
SNP_71061_A_45516	NW_004515864.1	scaffold370	45516	CC	AA	AA	INTERGENIC			
SNP_71062_A_45560	NW_004515864.1	scaffold370	45560	CC	GG	GG	INTERGENIC			
SNP_71063_A_45567	NW_004515864.1	scaffold370	45567	CC	AA	AA	INTERGENIC			
SNP_71064_A_45593	NW_004515864.1	scaffold370	45593	TT	CC	CC	INTERGENIC			
SNP_71065_A_45628	NW_004515864.1	scaffold370	45628	TT	CC	CC	INTERGENIC			
SNP_71066_A_45648	NW_004515864.1	scaffold370	45648	CC	TT	TT	INTERGENIC			
SNP_71067_A_45695	NW_004515864.1	scaffold370	45695	AA	GG	GG	INTERGENIC			
SNP_71068_A_45699	NW_004515864.1	scaffold370	45699	GG	TT	TT	INTERGENIC			
SNP_71069_A_45714	NW_004515864.1	scaffold370	45714	TT	CC	CC	INTERGENIC			
SNP_71070_A_45719	NW_004515864.1	scaffold370	45719	AA	GG	GG	INTERGENIC			
SNP_71071_A_45731	NW_004515864.1	scaffold370	45731	AA	CC	CC	INTERGENIC			
SNP_71072_A_45739	NW_004515864.1	scaffold370	45739	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71073_A_45785	NW_004515864.1	scaffold370	45785	CC	TT	TT	INTERGENIC			
SNP_71074_A_45844	NW_004515864.1	scaffold370	45844	GG	CC	CC	INTERGENIC			
SNP_71075_A_45871	NW_004515864.1	scaffold370	45871	GG	AA	AA	INTERGENIC			
SNP_71076_A_46036	NW_004515864.1	scaffold370	46036	CC	TT	TT	INTERGENIC			
SNP_71077_A_46217	NW_004515864.1	scaffold370	46217	GG	AA	AA	INTERGENIC			
SNP_71078_A_46219	NW_004515864.1	scaffold370	46219	CC	AA	AA	INTERGENIC			
SNP_71079_A_46327	NW_004515864.1	scaffold370	46327	TT	GG	GG	INTERGENIC			
SNP_71080_A_46358	NW_004515864.1	scaffold370	46358	TT	CC	CC	INTERGENIC			
SNP_71081_A_46897	NW_004515864.1	scaffold370	46897	GG	AA	AA	INTERGENIC			
SNP_71082_A_48935	NW_004515864.1	scaffold370	48935	AA	TT	TT	INTERGENIC			
SNP_71083_A_49062	NW_004515864.1	scaffold370	49062	TT	CC	CC	INTERGENIC			
SNP_71084_A_50636	NW_004515864.1	scaffold370	50636	TT	CC	CC	INTERGENIC			
SNP_71085_A_50651	NW_004515864.1	scaffold370	50651	GG	TT	TT	INTERGENIC			
SNP_71086_A_50765	NW_004515864.1	scaffold370	50765	CC	TT	TT	INTERGENIC			
SNP_71087_A_50796	NW_004515864.1	scaffold370	50796	GG	CC	CC	INTERGENIC			
SNP_71088_A_55628	NW_004515864.1	scaffold370	55628	TT	CC	CC	INTERGENIC			
SNP_71089_A_56218	NW_004515864.1	scaffold370	56218	TT	AA	AA	INTERGENIC			
SNP_71090_A_56219	NW_004515864.1	scaffold370	56219	AA	TT	TT	INTERGENIC			
SNP_71091_A_56228	NW_004515864.1	scaffold370	56228	CC	TT	TT	INTERGENIC			
SNP_71092_A_56308	NW_004515864.1	scaffold370	56308	AA	TT	TT	INTERGENIC			
SNP_71093_A_56344	NW_004515864.1	scaffold370	56344	TT	GG	GG	INTERGENIC			
SNP_71094_A_56614	NW_004515864.1	scaffold370	56614	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71095_A_56695	NW_004515864.1	scaffold370	56695	TT	GG	GG	INTERGENIC			
SNP_71096_A_56737	NW_004515864.1	scaffold370	56737	TT	GG	GG	INTERGENIC			
SNP_71097_A_56738	NW_004515864.1	scaffold370	56738	CC	TT	TT	INTERGENIC			
SNP_71098_A_56744	NW_004515864.1	scaffold370	56744	AA	GG	GG	INTERGENIC			
SNP_71099_A_56814	NW_004515864.1	scaffold370	56814	TT	AA	AA	INTERGENIC			
SNP_71100_A_56840	NW_004515864.1	scaffold370	56840	CC	GG	GG	INTERGENIC			
SNP_71101_A_56981	NW_004515864.1	scaffold370	56981	AA	TT	TT	INTERGENIC			
SNP_71102_A_56984	NW_004515864.1	scaffold370	56984	AA	GG	GG	INTERGENIC			
SNP_71103_A_57068	NW_004515864.1	scaffold370	57068	TT	CC	CC	INTERGENIC			
SNP_71104_A_57109	NW_004515864.1	scaffold370	57109	AA	TT	TT	INTERGENIC			
SNP_71105_A_57128	NW_004515864.1	scaffold370	57128	TT	CC	CC	INTERGENIC			
SNP_71106_A_57215	NW_004515864.1	scaffold370	57215	TT	CC	CC	INTERGENIC			
SNP_71107_A_57623	NW_004515864.1	scaffold370	57623	CC	AA	AA	INTERGENIC			
SNP_71108_A_57802	NW_004515864.1	scaffold370	57802	TT	CC	CC	INTERGENIC			
SNP_71109_A_57848	NW_004515864.1	scaffold370	57848	AA	GG	GG	INTERGENIC			
SNP_71110_A_57911	NW_004515864.1	scaffold370	57911	GG	CC	CC	INTERGENIC			
SNP_71111_A_58205	NW_004515864.1	scaffold370	58205	CC	TT	TT	INTERGENIC			
SNP_71112_A_58235	NW_004515864.1	scaffold370	58235	CC	TT	TT	INTERGENIC			
SNP_71113_A_58275	NW_004515864.1	scaffold370	58275	CC	TT	TT	INTERGENIC			
SNP_71114_A_58330	NW_004515864.1	scaffold370	58330	AA	CC	CC	INTERGENIC			
SNP_71115_A_58364	NW_004515864.1	scaffold370	58364	CC	AA	AA	INTERGENIC			
SNP_71117_A_58767	NW_004515864.1	scaffold370	58767	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71118_A_58865	NW_004515864.1	scaffold370	58865	AA	GG	GG	INTERGENIC			
SNP_71119_A_58897	NW_004515864.1	scaffold370	58897	TT	CC	CC	INTERGENIC			
SNP_71120_A_58956	NW_004515864.1	scaffold370	58956	CC	GG	GG	INTERGENIC			
SNP_71121_A_58971	NW_004515864.1	scaffold370	58971	AA	GG	GG	INTERGENIC			
SNP_71122_A_59099	NW_004515864.1	scaffold370	59099	TT	AA	AA	INTERGENIC			
SNP_71123_A_59123	NW_004515864.1	scaffold370	59123	GG	CC	CC	INTERGENIC			
SNP_71124_A_59166	NW_004515864.1	scaffold370	59166	CC	TT	TT	INTERGENIC			
SNP_71125_A_59179	NW_004515864.1	scaffold370	59179	CC	TT	TT	INTERGENIC			
SNP_71126_A_59223	NW_004515864.1	scaffold370	59223	TT	AA	AA	INTERGENIC			
SNP_71127_A_59341	NW_004515864.1	scaffold370	59341	CC	TT	TT	INTERGENIC			
SNP_71128_A_59426	NW_004515864.1	scaffold370	59426	AA	GG	GG	INTERGENIC			
SNP_71129_A_59440	NW_004515864.1	scaffold370	59440	AA	GG	GG	INTERGENIC			
SNP_71130_A_59473	NW_004515864.1	scaffold370	59473	GG	AA	AA	INTERGENIC			
SNP_71131_A_59744	NW_004515864.1	scaffold370	59744	TT	AA	AA	INTERGENIC			
SNP_71132_A_60089	NW_004515864.1	scaffold370	60089	AA	GG	GG	INTERGENIC			
SNP_71133_A_60427	NW_004515864.1	scaffold370	60427	AA	GG	GG	INTERGENIC			
SNP_71134_A_62480	NW_004515864.1	scaffold370	62480	AA	CC	CC	INTERGENIC			
SNP_71135_A_62545	NW_004515864.1	scaffold370	62545	TT	CC	CC	INTERGENIC			
SNP_71136_A_62870	NW_004515864.1	scaffold370	62870	GG	AA	AA	INTERGENIC			
SNP_71137_A_62945	NW_004515864.1	scaffold370	62945	CC	TT	TT	INTERGENIC			
SNP_71138_A_62997	NW_004515864.1	scaffold370	62997	GG	AA	AA	INTERGENIC			
SNP_71139_A_62999	NW_004515864.1	scaffold370	62999	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71140_A_63034	NW_004515864.1	scaffold370	63034	CC	TT	TT	INTERGENIC			
SNP_71141_A_63117	NW_004515864.1	scaffold370	63117	GG	TT	TT	INTERGENIC			
SNP_71142_A_63254	NW_004515864.1	scaffold370	63254	CC	AA	AA	INTERGENIC			
SNP_71143_A_63280	NW_004515864.1	scaffold370	63280	TT	CC	CC	INTERGENIC			
SNP_71144_A_63309	NW_004515864.1	scaffold370	63309	AA	GG	GG	INTERGENIC			
SNP_71145_A_63382	NW_004515864.1	scaffold370	63382	CC	GG	GG	INTERGENIC			
SNP_71146_A_63450	NW_004515864.1	scaffold370	63450	GG	AA	AA	INTERGENIC			
SNP_71147_A_63605	NW_004515864.1	scaffold370	63605	GG	TT	TT	INTERGENIC			
SNP_71148_A_63680	NW_004515864.1	scaffold370	63680	GG	AA	AA	INTERGENIC			
SNP_71149_A_63711	NW_004515864.1	scaffold370	63711	CC	TT	TT	INTERGENIC			
SNP_71150_A_63783	NW_004515864.1	scaffold370	63783	CC	TT	TT	INTERGENIC			
SNP_71151_A_63810	NW_004515864.1	scaffold370	63810	CC	TT	TT	INTERGENIC			
SNP_71152_A_63812	NW_004515864.1	scaffold370	63812	AA	TT	TT	INTERGENIC			
SNP_71153_A_63828	NW_004515864.1	scaffold370	63828	AA	TT	TT	INTERGENIC			
SNP_71154_A_63866	NW_004515864.1	scaffold370	63866	GG	AA	AA	INTERGENIC			
SNP_71155_A_63867	NW_004515864.1	scaffold370	63867	AA	GG	GG	INTERGENIC			
SNP_71156_A_63962	NW_004515864.1	scaffold370	63962	AA	TT	TT	INTERGENIC			
SNP_71157_A_63990	NW_004515864.1	scaffold370	63990	GG	AA	AA	INTERGENIC			
SNP_71158_A_64010	NW_004515864.1	scaffold370	64010	TT	GG	GG	INTERGENIC			
SNP_71159_A_64026	NW_004515864.1	scaffold370	64026	TT	GG	GG	INTERGENIC			
SNP_71160_A_64055	NW_004515864.1	scaffold370	64055	CC	TT	TT	INTERGENIC			
SNP_71161_A_64099	NW_004515864.1	scaffold370	64099	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71162_A_64103	NW_004515864.1	scaffold370	64103	CC	GG	GG	INTERGENIC			
SNP_71163_A_64173	NW_004515864.1	scaffold370	64173	AA	GG	GG	INTERGENIC			
SNP_71164_A_64285	NW_004515864.1	scaffold370	64285	CC	GG	GG	INTERGENIC			
SNP_71165_A_64448	NW_004515864.1	scaffold370	64448	TT	CC	CC	INTERGENIC			
SNP_71166_A_64473	NW_004515864.1	scaffold370	64473	GG	AA	AA	INTERGENIC			
SNP_71167_A_64521	NW_004515864.1	scaffold370	64521	TT	CC	CC	INTERGENIC			
SNP_71168_A_64536	NW_004515864.1	scaffold370	64536	TT	CC	CC	INTERGENIC			
SNP_71169_A_64662	NW_004515864.1	scaffold370	64662	AA	CC	CC	INTERGENIC			
SNP_71170_A_64804	NW_004515864.1	scaffold370	64804	CC	TT	TT	INTERGENIC			
SNP_71171_A_64920	NW_004515864.1	scaffold370	64920	AA	GG	GG	INTERGENIC			
SNP_71172_A_64933	NW_004515864.1	scaffold370	64933	TT	GG	GG	INTERGENIC			
SNP_71173_A_64945	NW_004515864.1	scaffold370	64945	AA	TT	TT	INTERGENIC			
SNP_71174_A_65046	NW_004515864.1	scaffold370	65046	GG	TT	TT	INTERGENIC			
SNP_71175_A_65769	NW_004515864.1	scaffold370	65769	GG	CC	CC	INTERGENIC			
SNP_71176_A_66209	NW_004515864.1	scaffold370	66209	CC	TT	TT	INTERGENIC			
SNP_71177_A_66210	NW_004515864.1	scaffold370	66210	CC	TT	TT	INTERGENIC			
SNP_71178_A_66309	NW_004515864.1	scaffold370	66309	TT	AA	AA	INTERGENIC			
SNP_71179_A_66310	NW_004515864.1	scaffold370	66310	TT	CC	CC	INTERGENIC			
SNP_71180_A_66320	NW_004515864.1	scaffold370	66320	TT	CC	CC	INTERGENIC			
SNP_71181_A_66332	NW_004515864.1	scaffold370	66332	CC	GG	GG	INTERGENIC			
SNP_71182_A_66403	NW_004515864.1	scaffold370	66403	GG	AA	AA	INTERGENIC			
SNP_71183_A_66432	NW_004515864.1	scaffold370	66432	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71184_A_66510	NW_004515864.1	scaffold370	66510	AA	GG	GG	INTERGENIC			
SNP_71185_A_66534	NW_004515864.1	scaffold370	66534	GG	CC	CC	INTERGENIC			
SNP_71186_A_66589	NW_004515864.1	scaffold370	66589	CC	GG	GG	INTERGENIC			
SNP_71187_A_66594	NW_004515864.1	scaffold370	66594	GG	TT	TT	INTERGENIC			
SNP_71188_A_66665	NW_004515864.1	scaffold370	66665	TT	CC	CC	INTERGENIC			
SNP_71189_A_66715	NW_004515864.1	scaffold370	66715	AA	TT	TT	INTERGENIC			
SNP_71190_A_66782	NW_004515864.1	scaffold370	66782	TT	GG	GG	INTERGENIC			
SNP_71191_A_66812	NW_004515864.1	scaffold370	66812	TT	AA	AA	INTERGENIC			
SNP_71192_A_66846	NW_004515864.1	scaffold370	66846	GG	TT	TT	INTERGENIC			
SNP_71193_A_66887	NW_004515864.1	scaffold370	66887	GG	AA	AA	INTERGENIC			
SNP_71194_A_66902	NW_004515864.1	scaffold370	66902	AA	CC	CC	INTERGENIC			
SNP_71195_A_66932	NW_004515864.1	scaffold370	66932	AA	GG	GG	INTERGENIC			
SNP_71196_A_66947	NW_004515864.1	scaffold370	66947	TT	CC	CC	INTERGENIC			
SNP_71197_A_66965	NW_004515864.1	scaffold370	66965	TT	CC	CC	INTERGENIC			
SNP_71198_A_66981	NW_004515864.1	scaffold370	66981	AA	TT	TT	INTERGENIC			
SNP_71199_A_66988	NW_004515864.1	scaffold370	66988	TT	CC	CC	INTERGENIC			
SNP_71200_A_67010	NW_004515864.1	scaffold370	67010	GG	AA	AA	INTERGENIC			
SNP_71201_A_67029	NW_004515864.1	scaffold370	67029	CC	AA	AA	INTERGENIC			
SNP_71202_A_67037	NW_004515864.1	scaffold370	67037	TT	CC	GG	INTERGENIC			
SNP_71203_A_67084	NW_004515864.1	scaffold370	67084	GG	AA	AA	INTERGENIC			
SNP_71204_A_67242	NW_004515864.1	scaffold370	67242	AA	GG	GG	INTERGENIC			
SNP_71205_A_67803	NW_004515864.1	scaffold370	67803	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71206_A_70939	NW_004515864.1	scaffold370	70939	CC	TT	TT	INTERGENIC			
SNP_71207_A_71015	NW_004515864.1	scaffold370	71015	AA	TT	TT	INTERGENIC			
SNP_71208_A_71257	NW_004515864.1	scaffold370	71257	AA	TT	TT	INTERGENIC			
SNP_71209_A_74350	NW_004515864.1	scaffold370	74350	AA	TT	TT	INTERGENIC			
SNP_71210_A_74552	NW_004515864.1	scaffold370	74552	AA	TT	TT	INTERGENIC			
SNP_71211_A_74596	NW_004515864.1	scaffold370	74596	AA	GG	GG	INTERGENIC			
SNP_71212_A_74665	NW_004515864.1	scaffold370	74665	TT	CC	CC	INTERGENIC			
SNP_71213_A_74811	NW_004515864.1	scaffold370	74811	AA	CC	CC	INTERGENIC			
SNP_71214_A_74831	NW_004515864.1	scaffold370	74831	CC	AA	AA	INTERGENIC			
SNP_71215_A_74885	NW_004515864.1	scaffold370	74885	AA	GG	GG	INTERGENIC			
SNP_71216_A_74898	NW_004515864.1	scaffold370	74898	CC	TT	TT	INTERGENIC			
SNP_71217_A_74918	NW_004515864.1	scaffold370	74918	GG	TT	TT	INTERGENIC			
SNP_71218_A_74982	NW_004515864.1	scaffold370	74982	CC	TT	TT	INTERGENIC			
SNP_71219_A_74995	NW_004515864.1	scaffold370	74995	TT	AA	AA	INTERGENIC			
SNP_71220_A_75018	NW_004515864.1	scaffold370	75018	CC	TT	TT	INTERGENIC			
SNP_71221_A_75019	NW_004515864.1	scaffold370	75019	GG	TT	TT	INTERGENIC			
SNP_71222_A_75060	NW_004515864.1	scaffold370	75060	AA	TT	TT	INTERGENIC			
SNP_71223_A_75064	NW_004515864.1	scaffold370	75064	GG	AA	AA	INTERGENIC			
SNP_71225_A_75181	NW_004515864.1	scaffold370	75181	TT	CC	CC	INTERGENIC			
SNP_71226_A_75183	NW_004515864.1	scaffold370	75183	AA	GG	GG	INTERGENIC			
SNP_71227_A_75222	NW_004515864.1	scaffold370	75222	TT	GG	GG	INTERGENIC			
SNP_71228_A_75268	NW_004515864.1	scaffold370	75268	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71229_A_75304	NW_004515864.1	scaffold370	75304	GG	AA	AA	INTERGENIC			
SNP_71230_A_75326	NW_004515864.1	scaffold370	75326	CC	TT	TT	INTERGENIC			
SNP_71231_A_75396	NW_004515864.1	scaffold370	75396	GG	AA	AA	INTERGENIC			
SNP_71232_A_75399	NW_004515864.1	scaffold370	75399	CC	GG	GG	INTERGENIC			
SNP_71233_A_75412	NW_004515864.1	scaffold370	75412	GG	AA	AA	INTERGENIC			
SNP_71234_A_75435	NW_004515864.1	scaffold370	75435	GG	CC	CC	INTERGENIC			
SNP_71235_A_75444	NW_004515864.1	scaffold370	75444	CC	AA	AA	INTERGENIC			
SNP_71236_A_75453	NW_004515864.1	scaffold370	75453	TT	GG	GG	INTERGENIC			
SNP_71237_A_75605	NW_004515864.1	scaffold370	75605	GG	CC	CC	INTERGENIC			
SNP_71238_A_75672	NW_004515864.1	scaffold370	75672	AA	GG	GG	INTERGENIC			
SNP_71239_A_76053	NW_004515864.1	scaffold370	76053	AA	GG	GG	INTERGENIC			
SNP_71240_A_76732	NW_004515864.1	scaffold370	76732	TT	AA	AA	INTERGENIC			
SNP_71241_A_76803	NW_004515864.1	scaffold370	76803	TT	GG	GG	INTERGENIC			
SNP_71242_A_76858	NW_004515864.1	scaffold370	76858	AA	GG	GG	INTERGENIC			
SNP_71243_A_76885	NW_004515864.1	scaffold370	76885	GG	AA	AA	INTERGENIC			
SNP_71244_A_76908	NW_004515864.1	scaffold370	76908	CC	TT	TT	INTERGENIC			
SNP_71245_A_76909	NW_004515864.1	scaffold370	76909	GG	TT	TT	INTERGENIC			
SNP_71246_A_77144	NW_004515864.1	scaffold370	77144	TT	AA	AA	INTERGENIC			
SNP_71247_A_77161	NW_004515864.1	scaffold370	77161	AA	GG	GG	INTERGENIC			
SNP_71248_A_77181	NW_004515864.1	scaffold370	77181	TT	AA	AA	INTERGENIC			
SNP_71249_A_77183	NW_004515864.1	scaffold370	77183	CC	AA	AA	INTERGENIC			
SNP_71250_A_77213	NW_004515864.1	scaffold370	77213	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71251_A_77256	NW_004515864.1	scaffold370	77256	AA	CC	CC	INTERGENIC			
SNP_71252_A_77258	NW_004515864.1	scaffold370	77258	GG	AA	AA	INTERGENIC			
SNP_71253_A_77267	NW_004515864.1	scaffold370	77267	AA	CC	CC	INTERGENIC			
SNP_71254_A_77327	NW_004515864.1	scaffold370	77327	AA	TT	TT	INTERGENIC			
SNP_71255_A_77345	NW_004515864.1	scaffold370	77345	TT	CC	CC	INTERGENIC			
SNP_71256_A_77368	NW_004515864.1	scaffold370	77368	AA	TT	TT	INTERGENIC			
SNP_71257_A_77523	NW_004515864.1	scaffold370	77523	CC	TT	TT	INTERGENIC			
SNP_71258_A_77545	NW_004515864.1	scaffold370	77545	AA	TT	TT	INTERGENIC			
SNP_71259_A_77570	NW_004515864.1	scaffold370	77570	GG	TT	TT	INTERGENIC			
SNP_71260_A_77667	NW_004515864.1	scaffold370	77667	AA	GG	GG	INTERGENIC			
SNP_71261_A_77673	NW_004515864.1	scaffold370	77673	CC	TT	TT	INTERGENIC			
SNP_71262_A_77952	NW_004515864.1	scaffold370	77952	CC	TT	TT	INTERGENIC			
SNP_71263_A_78254	NW_004515864.1	scaffold370	78254	AA	TT	TT	INTERGENIC			
SNP_71264_A_78259	NW_004515864.1	scaffold370	78259	AA	TT	TT	INTERGENIC			
SNP_71265_A_78383	NW_004515864.1	scaffold370	78383	TT	CC	CC	INTERGENIC			
SNP_71266_A_78419	NW_004515864.1	scaffold370	78419	CC	TT	TT	INTERGENIC			
SNP_71267_A_78421	NW_004515864.1	scaffold370	78421	CC	AA	AA	INTERGENIC			
SNP_71268_A_78585	NW_004515864.1	scaffold370	78585	AA	GG	GG	INTERGENIC			
SNP_71269_A_78593	NW_004515864.1	scaffold370	78593	AA	GG	GG	INTERGENIC			
SNP_71270_A_78644	NW_004515864.1	scaffold370	78644	AA	CC	CC	INTERGENIC			
SNP_71271_A_78867	NW_004515864.1	scaffold370	78867	GG	AA	AA	INTERGENIC			
SNP_71273_A_79782	NW_004515864.1	scaffold370	79782	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71274_A_79891	NW_004515864.1	scaffold370	79891	TT	CC	CC	INTERGENIC			
SNP_71275_A_79928	NW_004515864.1	scaffold370	79928	TT	CC	CC	INTERGENIC			
SNP_71276_A_80014	NW_004515864.1	scaffold370	80014	CC	TT	TT	INTERGENIC			
SNP_71277_A_80020	NW_004515864.1	scaffold370	80020	TT	AA	AA	INTERGENIC			
SNP_71278_A_80490	NW_004515864.1	scaffold370	80490	GG	CC	CC	INTERGENIC			
SNP_71279_A_80835	NW_004515864.1	scaffold370	80835	GG	CC	CC	INTERGENIC			
SNP_71280_A_80955	NW_004515864.1	scaffold370	80955	GG	CC	CC	INTERGENIC			
SNP_71281_A_81069	NW_004515864.1	scaffold370	81069	GG	AA	AA	INTERGENIC			
SNP_71282_A_81296	NW_004515864.1	scaffold370	81296	GG	TT	TT	INTERGENIC			
SNP_71283_A_81311	NW_004515864.1	scaffold370	81311	TT	CC	CC	INTERGENIC			
SNP_71284_A_81387	NW_004515864.1	scaffold370	81387	AA	CC	CC	INTERGENIC			
SNP_71285_A_81396	NW_004515864.1	scaffold370	81396	AA	GG	GG	INTERGENIC			
SNP_71286_A_81488	NW_004515864.1	scaffold370	81488	GG	AA	AA	INTERGENIC			
SNP_71287_A_81500	NW_004515864.1	scaffold370	81500	GG	CC	CC	INTERGENIC			
SNP_71288_A_81528	NW_004515864.1	scaffold370	81528	GG	AA	AA	INTERGENIC			
SNP_71289_A_81581	NW_004515864.1	scaffold370	81581	CC	TT	TT	INTERGENIC			
SNP_71290_A_81594	NW_004515864.1	scaffold370	81594	TT	AA	AA	INTERGENIC			
SNP_71291_A_81636	NW_004515864.1	scaffold370	81636	AA	TT	TT	INTERGENIC			
SNP_71292_A_81668	NW_004515864.1	scaffold370	81668	GG	TT	TT	INTERGENIC			
SNP_71293_A_81670	NW_004515864.1	scaffold370	81670	TT	CC	CC	INTERGENIC			
SNP_71294_A_81833	NW_004515864.1	scaffold370	81833	AA	CC	CC	INTERGENIC			
SNP_71295_A_81865	NW_004515864.1	scaffold370	81865	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71296_A_81932	NW_004515864.1	scaffold370	81932	CC	TT	TT	INTERGENIC			
SNP_71297_A_81957	NW_004515864.1	scaffold370	81957	GG	TT	TT	INTERGENIC			
SNP_71298_A_82072	NW_004515864.1	scaffold370	82072	GG	AA	AA	INTERGENIC			
SNP_71299_A_82092	NW_004515864.1	scaffold370	82092	TT	CC	CC	INTERGENIC			
SNP_71300_A_82461	NW_004515864.1	scaffold370	82461	TT	CC	CC	INTERGENIC			
SNP_71301_A_82728	NW_004515864.1	scaffold370	82728	TT	CC	CC	INTERGENIC			
SNP_71302_A_82730	NW_004515864.1	scaffold370	82730	CC	TT	TT	INTERGENIC			
SNP_71303_A_82920	NW_004515864.1	scaffold370	82920	GG	AA	AA	INTERGENIC			
SNP_71304_A_83061	NW_004515864.1	scaffold370	83061	TT	CC	CC	INTERGENIC			
SNP_71305_A_85092	NW_004515864.1	scaffold370	85092	TT	CC	CC	INTERGENIC			
SNP_71306_A_85396	NW_004515864.1	scaffold370	85396	CC	AA	AA	INTERGENIC			
SNP_71307_A_85455	NW_004515864.1	scaffold370	85455	TT	CC	CC	INTERGENIC			
SNP_71308_A_85625	NW_004515864.1	scaffold370	85625	TT	GG	GG	INTERGENIC			
SNP_71309_A_87725	NW_004515864.1	scaffold370	87725	GG	AA	AA	INTERGENIC			
SNP_71310_A_87802	NW_004515864.1	scaffold370	87802	GG	AA	AA	INTERGENIC			
SNP_71311_A_87919	NW_004515864.1	scaffold370	87919	TT	AA	AA	INTERGENIC			
SNP_71312_A_88272	NW_004515864.1	scaffold370	88272	AA	GG	GG	INTERGENIC			
SNP_71313_A_88288	NW_004515864.1	scaffold370	88288	TT	GG	GG	INTERGENIC			
SNP_71314_A_88299	NW_004515864.1	scaffold370	88299	AA	GG	GG	INTERGENIC			
SNP_71315_A_88448	NW_004515864.1	scaffold370	88448	CC	TT	TT	INTERGENIC			
SNP_71316_A_88476	NW_004515864.1	scaffold370	88476	TT	CC	CC	INTERGENIC			
SNP_71317_A_88685	NW_004515864.1	scaffold370	88685	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71318_A_89238	NW_004515864.1	scaffold370	89238	CC	GG	GG	INTERGENIC			
SNP_71319_A_89291	NW_004515864.1	scaffold370	89291	TT	CC	CC	INTERGENIC			
SNP_71320_A_89299	NW_004515864.1	scaffold370	89299	TT	CC	CC	INTERGENIC			
SNP_71321_A_89338	NW_004515864.1	scaffold370	89338	TT	CC	CC	INTERGENIC			
SNP_71322_A_89413	NW_004515864.1	scaffold370	89413	CC	AA	AA	INTERGENIC			
SNP_71323_A_89460	NW_004515864.1	scaffold370	89460	TT	CC	CC	INTERGENIC			
SNP_71324_A_89500	NW_004515864.1	scaffold370	89500	AA	TT	TT	INTERGENIC			
SNP_71325_A_89601	NW_004515864.1	scaffold370	89601	GG	AA	AA	INTERGENIC			
SNP_71326_A_89703	NW_004515864.1	scaffold370	89703	AA	TT	TT	INTERGENIC			
SNP_71327_A_89749	NW_004515864.1	scaffold370	89749	GG	AA	AA	INTERGENIC			
SNP_71329_A_89808	NW_004515864.1	scaffold370	89808	GG	AA	AA	INTERGENIC			
SNP_71330_A_89864	NW_004515864.1	scaffold370	89864	CC	TT	TT	INTERGENIC			
SNP_71331_A_90106	NW_004515864.1	scaffold370	90106	TT	CC	CC	INTERGENIC			
SNP_71332_A_90117	NW_004515864.1	scaffold370	90117	GG	AA	AA	INTERGENIC			
SNP_71333_A_90166	NW_004515864.1	scaffold370	90166	AA	TT	TT	INTERGENIC			
SNP_71334_A_90250	NW_004515864.1	scaffold370	90250	TT	GG	GG	INTERGENIC			
SNP_71335_A_90296	NW_004515864.1	scaffold370	90296	GG	TT	TT	INTERGENIC			
SNP_71336_A_90343	NW_004515864.1	scaffold370	90343	AA	GG	GG	INTERGENIC			
SNP_71337_A_90386	NW_004515864.1	scaffold370	90386	TT	AA	AA	INTERGENIC			
SNP_71338_A_90555	NW_004515864.1	scaffold370	90555	GG	AA	AA	INTERGENIC			
SNP_71339_A_90593	NW_004515864.1	scaffold370	90593	TT	CC	CC	INTERGENIC			
SNP_71340_A_90615	NW_004515864.1	scaffold370	90615	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71341_A_92682	NW_004515864.1	scaffold370	92682	CC	AA	AA	INTERGENIC			
SNP_71342_A_92738	NW_004515864.1	scaffold370	92738	AA	CC	CC	INTERGENIC			
SNP_71343_A_92780	NW_004515864.1	scaffold370	92780	GG	TT	TT	INTERGENIC			
SNP_71344_A_92909	NW_004515864.1	scaffold370	92909	TT	CC	CC	INTERGENIC			
SNP_71345_A_92931	NW_004515864.1	scaffold370	92931	AA	GG	GG	INTERGENIC			
SNP_71346_A_92988	NW_004515864.1	scaffold370	92988	CC	TT	TT	INTERGENIC			
SNP_71347_A_93085	NW_004515864.1	scaffold370	93085	GG	AA	AA	INTERGENIC			
SNP_71348_A_93113	NW_004515864.1	scaffold370	93113	TT	GG	GG	INTERGENIC			
SNP_71349_A_94449	NW_004515864.1	scaffold370	94449	GG	CC	CC	INTERGENIC			
SNP_71350_A_94702	NW_004515864.1	scaffold370	94702	AA	TT	TT	INTERGENIC			
SNP_71351_A_94897	NW_004515864.1	scaffold370	94897	AA	CC	CC	INTERGENIC			
SNP_71352_A_94912	NW_004515864.1	scaffold370	94912	CC	GG	GG	INTERGENIC			
SNP_71353_A_95259	NW_004515864.1	scaffold370	95259	TT	CC	CC	INTERGENIC			
SNP_71354_A_95297	NW_004515864.1	scaffold370	95297	TT	CC	CC	INTERGENIC			
SNP_71355_A_99887	NW_004515864.1	scaffold370	99887	GG	TT	TT	INTERGENIC			
SNP_71356_A_99909	NW_004515864.1	scaffold370	99909	GG	TT	TT	INTERGENIC			
SNP_71357_A_99930	NW_004515864.1	scaffold370	99930	GG	AA	AA	INTERGENIC			
SNP_71358_A_100207	NW_004515864.1	scaffold370	100207	TT	CC	CC	INTERGENIC			
SNP_71359_A_100403	NW_004515864.1	scaffold370	100403	GG	AA	AA	INTERGENIC			
SNP_71360_A_100510	NW_004515864.1	scaffold370	100510	GG	AA	AA	INTERGENIC			
SNP_71361_A_100606	NW_004515864.1	scaffold370	100606	AA	GG	GG	INTERGENIC			
SNP_71362_A_100862	NW_004515864.1	scaffold370	100862	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71363_A_100882	NW_004515864.1	scaffold370	100882	TT	CC	CC	INTERGENIC			
SNP_71364_A_100883	NW_004515864.1	scaffold370	100883	TT	AA	AA	INTERGENIC			
SNP_71365_A_100898	NW_004515864.1	scaffold370	100898	GG	AA	AA	INTERGENIC			
SNP_71366_A_101009	NW_004515864.1	scaffold370	101009	AA	GG	GG	INTERGENIC			
SNP_71367_A_101019	NW_004515864.1	scaffold370	101019	TT	AA	AA	INTERGENIC			
SNP_71368_A_101021	NW_004515864.1	scaffold370	101021	CC	AA	AA	INTERGENIC			
SNP_71369_A_101031	NW_004515864.1	scaffold370	101031	TT	CC	CC	INTERGENIC			
SNP_71371_A_101101	NW_004515864.1	scaffold370	101101	AA	GG	GG	INTERGENIC			
SNP_71372_A_101133	NW_004515864.1	scaffold370	101133	CC	AA	AA	INTERGENIC			
SNP_71373_A_102561	NW_004515864.1	scaffold370	102561	AA	GG	GG	INTERGENIC			
SNP_71374_A_102571	NW_004515864.1	scaffold370	102571	TT	GG	GG	INTERGENIC			
SNP_71375_A_102579	NW_004515864.1	scaffold370	102579	AA	CC	CC	INTERGENIC			
SNP_71376_A_102614	NW_004515864.1	scaffold370	102614	TT	AA	AA	INTERGENIC			
SNP_71377_A_102942	NW_004515864.1	scaffold370	102942	AA	GG	GG	INTERGENIC			
SNP_71378_A_102945	NW_004515864.1	scaffold370	102945	AA	GG	GG	INTERGENIC			
SNP_71379_A_103099	NW_004515864.1	scaffold370	103099	AA	GG	GG	INTERGENIC			
SNP_71380_A_104982	NW_004515864.1	scaffold370	104982	TT	CC	CC	INTERGENIC			
SNP_71381_A_106184	NW_004515864.1	scaffold370	106184	TT	AA	AA	INTERGENIC			
SNP_71382_A_106562	NW_004515864.1	scaffold370	106562	CC	GG	GG	INTERGENIC			
SNP_71383_A_106630	NW_004515864.1	scaffold370	106630	AA	TT	TT	INTERGENIC			
SNP_71384_A_106631	NW_004515864.1	scaffold370	106631	AA	CC	CC	INTERGENIC			
SNP_71385_A_107126	NW_004515864.1	scaffold370	107126	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71386_A_107129	NW_004515864.1	scaffold370	107129	CC	GG	GG	INTERGENIC			
SNP_71387_A_107238	NW_004515864.1	scaffold370	107238	AA	GG	GG	INTERGENIC			
SNP_71388_A_107409	NW_004515864.1	scaffold370	107409	AA	TT	TT	INTERGENIC			
SNP_71389_A_107445	NW_004515864.1	scaffold370	107445	GG	TT	TT	INTERGENIC			
SNP_71390_A_107450	NW_004515864.1	scaffold370	107450	TT	CC	CC	INTERGENIC			
SNP_71391_A_107456	NW_004515864.1	scaffold370	107456	AA	GG	GG	INTERGENIC			
SNP_71392_A_107492	NW_004515864.1	scaffold370	107492	TT	AA	AA	INTERGENIC			
SNP_71393_A_107856	NW_004515864.1	scaffold370	107856	CC	AA	AA	INTERGENIC			
SNP_71394_A_107941	NW_004515864.1	scaffold370	107941	GG	AA	AA	INTERGENIC			
SNP_71395_A_108013	NW_004515864.1	scaffold370	108013	TT	CC	CC	INTERGENIC			
SNP_71396_A_108143	NW_004515864.1	scaffold370	108143	GG	TT	TT	INTERGENIC			
SNP_71397_A_108166	NW_004515864.1	scaffold370	108166	TT	GG	GG	INTERGENIC			
SNP_71398_A_109478	NW_004515864.1	scaffold370	109478	GG	AA	AA	INTERGENIC			
SNP_71399_A_109547	NW_004515864.1	scaffold370	109547	CC	AA	AA	INTERGENIC			
SNP_71400_A_109552	NW_004515864.1	scaffold370	109552	TT	AA	AA	INTERGENIC			
SNP_71401_A_109553	NW_004515864.1	scaffold370	109553	GG	TT	TT	INTERGENIC			
SNP_71402_A_109554	NW_004515864.1	scaffold370	109554	TT	AA	AA	INTERGENIC			
SNP_71403_A_110232	NW_004515864.1	scaffold370	110232	GG	TT	TT	INTERGENIC			
SNP_71404_A_110378	NW_004515864.1	scaffold370	110378	CC	TT	TT	INTERGENIC			
SNP_71405_A_110494	NW_004515864.1	scaffold370	110494	AA	TT	TT	INTERGENIC			
SNP_71406_A_110511	NW_004515864.1	scaffold370	110511	GG	AA	AA	INTERGENIC			
SNP_71407_A_110612	NW_004515864.1	scaffold370	110612	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71408_A_110656	NW_004515864.1	scaffold370	110656	TT	CC	CC	INTERGENIC			
SNP_71409_A_110675	NW_004515864.1	scaffold370	110675	GG	TT	TT	INTERGENIC			
SNP_71410_A_110876	NW_004515864.1	scaffold370	110876	TT	CC	CC	INTERGENIC			
SNP_71411_A_111135	NW_004515864.1	scaffold370	111135	CC	AA	AA	INTERGENIC			
SNP_71412_A_112405	NW_004515864.1	scaffold370	112405	AA	TT	TT	INTERGENIC			
SNP_71413_A_122802	NW_004515864.1	scaffold370	122802	CC	AA	AA	INTERGENIC			
SNP_71414_A_123062	NW_004515864.1	scaffold370	123062	AA	GG	GG	INTERGENIC			
SNP_71415_A_123071	NW_004515864.1	scaffold370	123071	CC	AA	AA	INTERGENIC			
SNP_71416_A_123108	NW_004515864.1	scaffold370	123108	TT	CC	CC	INTERGENIC			
SNP_71417_A_125394	NW_004515864.1	scaffold370	125394	TT	AA	AA	INTERGENIC			
SNP_71418_A_125478	NW_004515864.1	scaffold370	125478	AA	TT	TT	INTERGENIC			
SNP_71419_A_125512	NW_004515864.1	scaffold370	125512	AA	GG	GG	INTERGENIC			
SNP_71420_A_136001	NW_004515864.1	scaffold370	136001	TT	CC	CC	INTERGENIC			
SNP_71421_A_137460	NW_004515864.1	scaffold370	137460	TT	CC	CC	INTERGENIC			
SNP_71422_A_137473	NW_004515864.1	scaffold370	137473	TT	CC	CC	INTERGENIC			
SNP_71423_A_137525	NW_004515864.1	scaffold370	137525	AA	CC	CC	INTERGENIC			
SNP_71424_A_137864	NW_004515864.1	scaffold370	137864	GG	AA	AA	DRR	101512059	Unknown function	
SNP_71425_A_159245	NW_004515864.1	scaffold370	159245	AA	GG	GG	INTERGENIC			
SNP_71426_A_159316	NW_004515864.1	scaffold370	159316	CC	TT	TT	INTERGENIC			
SNP_71427_A_159384	NW_004515864.1	scaffold370	159384	CC	TT	TT	INTERGENIC			
SNP_71428_A_159393	NW_004515864.1	scaffold370	159393	GG	CC	CC	INTERGENIC			
SNP_71429_A_164825	NW_004515864.1	scaffold370	164825	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71430_A_166523	NW_004515864.1	scaffold370	166523	CC	TT	TT	INTERGENIC			
SNP_71431_A_166876	NW_004515864.1	scaffold370	166876	TT	CC	CC	INTERGENIC			
SNP_71432_A_166958	NW_004515864.1	scaffold370	166958	GG	AA	AA	INTERGENIC			
SNP_71433_A_180842	NW_004515864.1	scaffold370	180842	TT	CC	CC	INTERGENIC			
SNP_71434_A_181592	NW_004515864.1	scaffold370	181592	AA	GG	GG	INTERGENIC			
SNP_71435_A_181644	NW_004515864.1	scaffold370	181644	CC	TT	TT	INTERGENIC			
SNP_71436_A_181747	NW_004515864.1	scaffold370	181747	CC	AA	AA	INTERGENIC			
SNP_71437_A_181792	NW_004515864.1	scaffold370	181792	AA	CC	CC	INTERGENIC			
SNP_71438_A_182300	NW_004515864.1	scaffold370	182300	TT	CC	CC	INTERGENIC			
SNP_71439_A_182520	NW_004515864.1	scaffold370	182520	TT	CC	CC	INTERGENIC			
SNP_71440_A_182671	NW_004515864.1	scaffold370	182671	GG	TT	TT	INTERGENIC			
SNP_71441_A_182880	NW_004515864.1	scaffold370	182880	AA	GG	GG	INTERGENIC			
SNP_71442_A_187914	NW_004515864.1	scaffold370	187914	AA	GG	GG	INTERGENIC			
SNP_71443_A_192376	NW_004515864.1	scaffold370	192376	CC	TT	TT	INTERGENIC			
SNP_71444_A_192469	NW_004515864.1	scaffold370	192469	AA	TT	TT	INTERGENIC			
SNP_71445_A_837	NW_004515865.1	scaffold373	837	CC	TT	TT	INTERGENIC			
SNP_71446_A_978	NW_004515865.1	scaffold373	978	TT	GG	GG	INTERGENIC			
SNP_71447_A_1396	NW_004515865.1	scaffold373	1396	TT	AA	AA	INTERGENIC			
SNP_71448_A_1413	NW_004515865.1	scaffold373	1413	TT	CC	CC	INTERGENIC			
SNP_71449_A_1428	NW_004515865.1	scaffold373	1428	AA	GG	GG	INTERGENIC			
SNP_71450_A_1442	NW_004515865.1	scaffold373	1442	AA	TT	TT	INTERGENIC			
SNP_71453_A_25098	NW_004515865.1	scaffold373	25098	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71454_A_25107	NW_004515865.1	scaffold373	25107	TT	CC	CC	INTERGENIC			
SNP_71455_A_25118	NW_004515865.1	scaffold373	25118	AA	CC	CC	INTERGENIC			
SNP_71456_A_25372	NW_004515865.1	scaffold373	25372	AA	GG	GG	INTERGENIC			
SNP_71457_A_25373	NW_004515865.1	scaffold373	25373	GG	AA	AA	INTERGENIC			
SNP_71458_A_25461	NW_004515865.1	scaffold373	25461	TT	AA	AA	INTERGENIC			
SNP_71459_A_25534	NW_004515865.1	scaffold373	25534	TT	CC	CC	INTERGENIC			
SNP_71460_A_25686	NW_004515865.1	scaffold373	25686	AA	TT	TT	INTERGENIC			
SNP_71461_A_25690	NW_004515865.1	scaffold373	25690	AA	TT	TT	INTERGENIC			
SNP_71462_A_25701	NW_004515865.1	scaffold373	25701	TT	GG	GG	INTERGENIC			
SNP_71463_A_25767	NW_004515865.1	scaffold373	25767	AA	CC	CC	INTERGENIC			
SNP_71464_A_25847	NW_004515865.1	scaffold373	25847	CC	TT	TT	INTERGENIC			
SNP_71466_A_25908	NW_004515865.1	scaffold373	25908	TT	CC	CC	INTERGENIC			
SNP_71467_A_34741	NW_004515865.1	scaffold373	34741	GG	AA	AA	INTERGENIC			
SNP_71468_A_50151	NW_004515865.1	scaffold373	50151	AA	TT	TT	INTERGENIC			
SNP_71469_A_2231	NW_004515866.1	scaffold374	2231	CC	TT	TT	INTERGENIC			
SNP_71470_A_2263	NW_004515866.1	scaffold374	2263	AA	GG	GG	INTERGENIC			
SNP_71471_A_2825	NW_004515866.1	scaffold374	2825	TT	CC	CC	INTERGENIC			
SNP_71472_A_12991	NW_004515866.1	scaffold374	12991	AA	GG	GG	INTERGENIC			
SNP_71475_A_23912	NW_004515866.1	scaffold374	23912	AA	GG	GG	DRR	101512388	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial	
SNP_71476_A_47811	NW_004515866.1	scaffold374	47811	AA	GG	GG	INTERGENIC			
SNP_71477_A_47816	NW_004515866.1	scaffold374	47816	CC	TT	TT	INTERGENIC			
SNP_71478_A_47826	NW_004515866.1	scaffold374	47826	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_71479_A_47856	NW_004515866.1	scaffold374	47856	TT	CC	CC	INTERGENIC		
SNP_71480_A_47881	NW_004515866.1	scaffold374	47881	AA	GG	GG	INTERGENIC		
SNP_71481_A_47921	NW_004515866.1	scaffold374	47921	AA	GG	GG	INTERGENIC		
SNP_71482_A_47967	NW_004515866.1	scaffold374	47967	AA	GG	GG	INTERGENIC		
SNP_71483_A_47971	NW_004515866.1	scaffold374	47971	TT	GG	GG	INTERGENIC		
SNP_71484_A_48262	NW_004515866.1	scaffold374	48262	TT	GG	GG	INTERGENIC		
SNP_71485_A_48300	NW_004515866.1	scaffold374	48300	TT	CC	CC	INTERGENIC		
SNP_71486_A_52952	NW_004515866.1	scaffold374	52952	CC	TT	TT	INTERGENIC		
SNP_71487_A_77170	NW_004515866.1	scaffold374	77170	TT	AA	AA	NON_SYNONYMOUS_CODING	101514875	uncharacterized LOC101514875
SNP_71488_A_77182	NW_004515866.1	scaffold374	77182	GG	AA	AA	NON_SYNONYMOUS_CODING	101514875	uncharacterized LOC101514875
SNP_71489_A_83780	NW_004515866.1	scaffold374	83780	AA	TT	TT	INTERGENIC		
SNP_71490_A_117552	NW_004515866.1	scaffold374	117552	GG	CC	CC	INTERGENIC		
SNP_71491_A_118531	NW_004515866.1	scaffold374	118531	GG	AA	AA	INTERGENIC		
SNP_71492_A_118558	NW_004515866.1	scaffold374	118558	TT	GG	GG	INTERGENIC		
SNP_71493_A_118693	NW_004515866.1	scaffold374	118693	AA	TT	TT	INTERGENIC		
SNP_71494_A_118950	NW_004515866.1	scaffold374	118950	AA	CC	CC	INTERGENIC		
SNP_71495_A_119019	NW_004515866.1	scaffold374	119019	GG	TT	TT	INTERGENIC		
SNP_71496_A_119567	NW_004515866.1	scaffold374	119567	TT	AA	AA	INTERGENIC		
SNP_71497_A_119822	NW_004515866.1	scaffold374	119822	GG	AA	AA	INTERGENIC		
SNP_71498_A_120052	NW_004515866.1	scaffold374	120052	CC	GG	GG	INTERGENIC		
SNP_71499_A_120118	NW_004515866.1	scaffold374	120118	AA	CC	CC	INTERGENIC		
SNP_71500_A_120220	NW_004515866.1	scaffold374	120220	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71501_A_120234	NW_004515866.1	scaffold374	120234	TT	CC	CC	INTERGENIC			
SNP_71502_A_120250	NW_004515866.1	scaffold374	120250	TT	CC	CC	INTERGENIC			
SNP_71503_A_121859	NW_004515866.1	scaffold374	121859	TT	AA	AA	INTERGENIC			
SNP_71504_A_121892	NW_004515866.1	scaffold374	121892	TT	GG	GG	INTERGENIC			
SNP_71505_A_121899	NW_004515866.1	scaffold374	121899	CC	TT	TT	INTERGENIC			
SNP_71506_A_121953	NW_004515866.1	scaffold374	121953	GG	AA	AA	INTERGENIC			
SNP_71507_A_121978	NW_004515866.1	scaffold374	121978	GG	AA	AA	INTERGENIC			
SNP_71508_A_123267	NW_004515866.1	scaffold374	123267	TT	AA	AA	INTERGENIC			
SNP_71509_A_128831	NW_004515866.1	scaffold374	128831	CC	TT	TT	INTERGENIC			
SNP_71510_A_128836	NW_004515866.1	scaffold374	128836	CC	AA	AA	INTERGENIC			
SNP_71511_A_128860	NW_004515866.1	scaffold374	128860	CC	TT	TT	INTERGENIC			
SNP_71512_A_128924	NW_004515866.1	scaffold374	128924	CC	TT	TT	INTERGENIC			
SNP_71513_A_128948	NW_004515866.1	scaffold374	128948	CC	TT	TT	INTERGENIC			
SNP_71514_A_129246	NW_004515866.1	scaffold374	129246	TT	CC	CC	INTERGENIC			
SNP_71515_A_141992	NW_004515866.1	scaffold374	141992	CC	TT	TT	INTERGENIC			
SNP_71517_A_142015	NW_004515866.1	scaffold374	142015	AA	GG	GG	INTERGENIC			
SNP_71518_A_142057	NW_004515866.1	scaffold374	142057	AA	TT	TT	INTERGENIC			
SNP_71520_A_142062	NW_004515866.1	scaffold374	142062	CC	AA	TT	INTERGENIC			
SNP_71521_A_142072	NW_004515866.1	scaffold374	142072	AA	TT	TT	INTERGENIC			
SNP_71522_A_142080	NW_004515866.1	scaffold374	142080	TT	AA	AA	INTERGENIC			
SNP_71523_A_142125	NW_004515866.1	scaffold374	142125	TT	GG	GG	INTERGENIC			
SNP_71524_A_142141	NW_004515866.1	scaffold374	142141	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_71525_A_142145	NW_004515866.1	scaffold374	142145	TT	AA	AA	INTERGENIC		
SNP_71526_A_142445	NW_004515866.1	scaffold374	142445	TT	GG	GG	INTERGENIC		
SNP_71527_A_147298	NW_004515866.1	scaffold374	147298	GG	AA	AA	INTERGENIC		
SNP_71528_A_147305	NW_004515866.1	scaffold374	147305	TT	CC	CC	INTERGENIC		
SNP_71529_A_147327	NW_004515866.1	scaffold374	147327	GG	AA	AA	INTERGENIC		
SNP_71530_A_147336	NW_004515866.1	scaffold374	147336	AA	TT	TT	INTERGENIC		
SNP_71531_A_147379	NW_004515866.1	scaffold374	147379	TT	AA	AA	INTERGENIC		
SNP_71532_A_149255	NW_004515866.1	scaffold374	149255	CC	AA	AA	INTERGENIC		
SNP_71533_A_149256	NW_004515866.1	scaffold374	149256	CC	TT	TT	INTERGENIC		
SNP_71534_A_149465	NW_004515866.1	scaffold374	149465	AA	TT	TT	INTERGENIC		
SNP_71536_A_149563	NW_004515866.1	scaffold374	149563	TT	AA	AA	INTERGENIC		
SNP_71537_A_149565	NW_004515866.1	scaffold374	149565	TT	CC	CC	INTERGENIC		
SNP_71538_A_149601	NW_004515866.1	scaffold374	149601	AA	GG	GG	INTERGENIC		
SNP_71539_A_149626	NW_004515866.1	scaffold374	149626	TT	CC	CC	INTERGENIC		
SNP_71541_A_154757	NW_004515866.1	scaffold374	154757	AA	CC	CC	INTERGENIC		
SNP_71542_A_155119	NW_004515866.1	scaffold374	155119	AA	TT	TT	INTERGENIC		
SNP_71543_A_156453	NW_004515866.1	scaffold374	156453	TT	CC	CC	SYNONYMOUS_CODING	101515522	Unknown function
SNP_71544_A_156704	NW_004515866.1	scaffold374	156704	TT	GG	GG	NON_SYNONYMOUS_CODING	101515522	Unknown function
SNP_71545_A_156728	NW_004515866.1	scaffold374	156728	AA	GG	GG	SYNONYMOUS_CODING	101515522	Unknown function
SNP_71546_A_157366	NW_004515866.1	scaffold374	157366	TT	CC	CC	URR	101515522	Unknown function
SNP_71548_A_196118	NW_004515866.1	scaffold374	196118	AA	CC	CC	INTERGENIC		
SNP_71549_A_196138	NW_004515866.1	scaffold374	196138	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_71550_A_196150	NW_004515866.1	scaffold374	196150	AA	GG	GG	INTERGENIC		
SNP_71551_A_196157	NW_004515866.1	scaffold374	196157	AA	CC	CC	INTERGENIC		
SNP_71552_A_196215	NW_004515866.1	scaffold374	196215	TT	AA	AA	INTERGENIC		
SNP_71553_A_196217	NW_004515866.1	scaffold374	196217	GG	AA	AA	INTERGENIC		
SNP_71554_A_196247	NW_004515866.1	scaffold374	196247	CC	GG	GG	INTERGENIC		
SNP_71555_A_196261	NW_004515866.1	scaffold374	196261	GG	AA	AA	INTERGENIC		
SNP_71556_A_200006	NW_004515866.1	scaffold374	200006	TT	GG	GG	URR	101513891	Unknown function
SNP_71557_A_200180	NW_004515866.1	scaffold374	200180	AA	TT	TT	URR	101513891	Unknown function
SNP_71558_A_202814	NW_004515866.1	scaffold374	202814	CC	TT	TT	DRR	101514234	RNA-binding protein pno1-like
SNP_71559_A_203052	NW_004515866.1	scaffold374	203052	TT	CC	CC	DRR	101514234	RNA-binding protein pno1-like
SNP_71560_A_203451	NW_004515866.1	scaffold374	203451	CC	GG	GG	DRR	101514234	RNA-binding protein pno1-like
SNP_71561_A_204002	NW_004515866.1	scaffold374	204002	AA	CC	CC	INTRON	101514234	RNA-binding protein pno1-like
SNP_71562_A_205502	NW_004515866.1	scaffold374	205502	AA	TT	TT	URR	101514234	RNA-binding protein pno1-like
SNP_71563_A_205787	NW_004515866.1	scaffold374	205787	GG	AA	AA	URR	101514234	RNA-binding protein pno1-like
SNP_71566_A_206219	NW_004515866.1	scaffold374	206219	TT	AA	AA	URR	101514234	RNA-binding protein pno1-like
SNP_71567_A_206222	NW_004515866.1	scaffold374	206222	GG	AA	AA	URR	101514234	RNA-binding protein pno1-like
SNP_71568_A_7454	NW_004515867.1	scaffold377	7454	TT	AA	AA	INTERGENIC		
SNP_71569_A_21976	NW_004515867.1	scaffold377	21976	TT	GG	GG	INTERGENIC		
SNP_71570_A_30646	NW_004515867.1	scaffold377	30646	AA	GG	GG	INTERGENIC		
SNP_71571_A_30671	NW_004515867.1	scaffold377	30671	CC	TT	TT	INTERGENIC		
SNP_71572_A_30744	NW_004515867.1	scaffold377	30744	GG	AA	AA	INTERGENIC		
SNP_71573_A_30780	NW_004515867.1	scaffold377	30780	AA	GG	GG	INTERGENIC		

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SNP_71574_A_30885	NW_004515867.1	scaffold377	30885	AA	GG	GG	INTERGENIC			
SNP_71575_A_31133	NW_004515867.1	scaffold377	31133	CC	TT	TT	INTERGENIC			
SNP_71576_A_31232	NW_004515867.1	scaffold377	31232	GG	AA	AA	INTERGENIC			
SNP_71577_A_31272	NW_004515867.1	scaffold377	31272	CC	TT	TT	INTERGENIC			
SNP_71578_A_38380	NW_004515867.1	scaffold377	38380	TT	AA	AA	INTERGENIC			
SNP_71579_A_75249	NW_004515867.1	scaffold377	75249	GG	AA	AA	INTERGENIC			
SNP_71581_A_75462	NW_004515867.1	scaffold377	75462	AA	TT	TT	INTERGENIC			
SNP_71582_A_75561	NW_004515867.1	scaffold377	75561	TT	AA	AA	INTERGENIC			
SNP_71583_A_75569	NW_004515867.1	scaffold377	75569	CC	AA	AA	INTERGENIC			
SNP_71584_A_75849	NW_004515867.1	scaffold377	75849	GG	AA	AA	INTERGENIC			
SNP_71585_A_75904	NW_004515867.1	scaffold377	75904	GG	AA	AA	INTERGENIC			
SNP_71586_A_98718	NW_004515867.1	scaffold377	98718	CC	GG	GG	INTERGENIC			
SNP_71587_A_98852	NW_004515867.1	scaffold377	98852	CC	TT	TT	INTERGENIC			
SNP_71588_A_98914	NW_004515867.1	scaffold377	98914	TT	AA	AA	INTERGENIC			
SNP_71589_A_139707	NW_004515867.1	scaffold377	139707	TT	GG	GG	INTERGENIC			
SNP_71590_A_182512	NW_004515867.1	scaffold377	182512	AA	GG	GG	INTERGENIC			
SNP_71591_A_182585	NW_004515867.1	scaffold377	182585	TT	CC	CC	INTERGENIC			
SNP_71592_A_182602	NW_004515867.1	scaffold377	182602	TT	GG	GG	INTERGENIC			
SNP_71593_A_191620	NW_004515867.1	scaffold377	191620	AA	GG	GG	INTERGENIC			
SNP_71594_A_191656	NW_004515867.1	scaffold377	191656	TT	GG	GG	INTERGENIC			
SNP_71595_A_191832	NW_004515867.1	scaffold377	191832	AA	CC	CC	INTERGENIC			
SNP_71596_A_207558	NW_004515867.1	scaffold377	207558	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71597_A_223249	NW_004515867.1	scaffold377	223249	GG	AA	AA	INTERGENIC			
SNP_71598_A_248987	NW_004515867.1	scaffold377	248987	CC	TT	TT	INTERGENIC			
SNP_71599_A_251392	NW_004515867.1	scaffold377	251392	GG	AA	AA	INTERGENIC			
SNP_71600_A_251395	NW_004515867.1	scaffold377	251395	AA	TT	TT	INTERGENIC			
SNP_71601_A_251401	NW_004515867.1	scaffold377	251401	GG	AA	AA	INTERGENIC			
SNP_71602_A_251489	NW_004515867.1	scaffold377	251489	GG	AA	AA	INTERGENIC			
SNP_71603_A_251516	NW_004515867.1	scaffold377	251516	AA	GG	GG	INTERGENIC			
SNP_71604_A_251523	NW_004515867.1	scaffold377	251523	GG	AA	AA	INTERGENIC			
SNP_71605_A_251530	NW_004515867.1	scaffold377	251530	AA	GG	GG	INTERGENIC			
SNP_71606_A_251534	NW_004515867.1	scaffold377	251534	TT	CC	CC	INTERGENIC			
SNP_71607_A_251543	NW_004515867.1	scaffold377	251543	AA	GG	GG	INTERGENIC			
SNP_71608_A_251571	NW_004515867.1	scaffold377	251571	AA	GG	GG	INTERGENIC			
SNP_71609_A_251822	NW_004515867.1	scaffold377	251822	AA	TT	TT	INTERGENIC			
SNP_71610_A_261578	NW_004515867.1	scaffold377	261578	TT	AA	AA	INTERGENIC			
SNP_71611_A_261583	NW_004515867.1	scaffold377	261583	AA	GG	GG	INTERGENIC			
SNP_71612_A_261670	NW_004515867.1	scaffold377	261670	TT	CC	CC	INTERGENIC			
SNP_71613_A_331009	NW_004515867.1	scaffold377	331009	CC	AA	AA	INTERGENIC			
SNP_71615_A_331055	NW_004515867.1	scaffold377	331055	GG	AA	AA	INTERGENIC			
SNP_71616_A_331083	NW_004515867.1	scaffold377	331083	AA	TT	TT	INTERGENIC			
SNP_71617_A_343090	NW_004515867.1	scaffold377	343090	TT	CC	CC	INTERGENIC			
SNP_71618_A_358325	NW_004515867.1	scaffold377	358325	CC	TT	TT	INTERGENIC			
SNP_71619_A_389761	NW_004515867.1	scaffold377	389761	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71620_A_393624	NW_004515867.1	scaffold377	393624	AA	GG	GG	INTERGENIC			
SNP_71621_A_394431	NW_004515867.1	scaffold377	394431	TT	CC	CC	INTERGENIC			
SNP_71622_A_394467	NW_004515867.1	scaffold377	394467	GG	TT	TT	INTERGENIC			
SNP_71623_A_400093	NW_004515867.1	scaffold377	400093	GG	AA	AA	INTERGENIC			
SNP_71624_A_400204	NW_004515867.1	scaffold377	400204	GG	AA	AA	INTERGENIC			
SNP_71625_A_400450	NW_004515867.1	scaffold377	400450	AA	GG	GG	INTERGENIC			
SNP_71626_A_400509	NW_004515867.1	scaffold377	400509	GG	AA	AA	INTERGENIC			
SNP_71627_A_418994	NW_004515867.1	scaffold377	418994	TT	AA	AA	INTERGENIC			
SNP_71628_A_20783	NW_004515869.1	scaffold379	20783	CC	AA	AA	INTERGENIC			
SNP_71629_A_22745	NW_004515869.1	scaffold379	22745	AA	CC	CC	INTERGENIC			
SNP_71630_A_71600	NW_004515869.1	scaffold379	71600	TT	CC	CC	URR	101490785	GPI inositol-deacylase	
SNP_71631_A_91586	NW_004515869.1	scaffold379	91586	AA	GG	GG	INTERGENIC			
SNP_71632_A_93076	NW_004515869.1	scaffold379	93076	TT	AA	AA	INTERGENIC			
SNP_71633_A_93077	NW_004515869.1	scaffold379	93077	TT	AA	AA	INTERGENIC			
SNP_71634_A_106207	NW_004515869.1	scaffold379	106207	CC	TT	TT	INTERGENIC			
SNP_71635_A_108186	NW_004515869.1	scaffold379	108186	CC	TT	TT	INTERGENIC			
SNP_71636_A_108217	NW_004515869.1	scaffold379	108217	TT	CC	CC	INTERGENIC			
SNP_71637_A_108245	NW_004515869.1	scaffold379	108245	TT	CC	CC	INTERGENIC			
SNP_71638_A_108286	NW_004515869.1	scaffold379	108286	TT	GG	GG	INTERGENIC			
SNP_71639_A_108310	NW_004515869.1	scaffold379	108310	GG	AA	AA	INTERGENIC			
SNP_71642_A_135757	NW_004515869.1	scaffold379	135757	CC	AA	AA	INTERGENIC			
SNP_71643_A_135875	NW_004515869.1	scaffold379	135875	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71644_A_136337	NW_004515869.1	scaffold379	136337	TT	CC	CC	INTERGENIC			
SNP_71645_A_136398	NW_004515869.1	scaffold379	136398	GG	AA	AA	INTERGENIC			
SNP_71646_A_162899	NW_004515869.1	scaffold379	162899	TT	AA	AA	INTERGENIC			
SNP_71647_A_162900	NW_004515869.1	scaffold379	162900	AA	TT	TT	INTERGENIC			
SNP_71648_A_175374	NW_004515869.1	scaffold379	175374	AA	GG	GG	INTRON	101493292	Unknown function	
SNP_71649_A_175398	NW_004515869.1	scaffold379	175398	AA	GG	GG	INTRON	101493292	Unknown function	
SNP_71651_A_194822	NW_004515869.1	scaffold379	194822	AA	TT	TT	INTERGENIC			
SNP_71652_A_6568	NW_004515870.1	scaffold381	6568	CC	GG	GG	INTERGENIC			
SNP_71653_A_6571	NW_004515870.1	scaffold381	6571	TT	AA	AA	INTERGENIC			
SNP_71654_A_6668	NW_004515870.1	scaffold381	6668	TT	AA	AA	INTERGENIC			
SNP_71655_A_6691	NW_004515870.1	scaffold381	6691	GG	AA	AA	INTERGENIC			
SNP_71657_A_6698	NW_004515870.1	scaffold381	6698	GG	TT	TT	INTERGENIC			
SNP_71658_A_6817	NW_004515870.1	scaffold381	6817	CC	AA	AA	INTERGENIC			
SNP_71660_A_6929	NW_004515870.1	scaffold381	6929	AA	TT	TT	INTERGENIC			
SNP_71661_A_8338	NW_004515870.1	scaffold381	8338	AA	TT	TT	INTERGENIC			
SNP_71662_A_8526	NW_004515870.1	scaffold381	8526	GG	TT	TT	INTERGENIC			
SNP_71663_A_8585	NW_004515870.1	scaffold381	8585	GG	AA	AA	INTERGENIC			
SNP_71664_A_9958	NW_004515870.1	scaffold381	9958	CC	AA	AA	INTERGENIC			
SNP_71665_A_10024	NW_004515870.1	scaffold381	10024	AA	GG	GG	INTERGENIC			
SNP_71666_A_10165	NW_004515870.1	scaffold381	10165	CC	GG	GG	INTERGENIC			
SNP_71667_A_10168	NW_004515870.1	scaffold381	10168	TT	GG	GG	INTERGENIC			
SNP_71669_A_10299	NW_004515870.1	scaffold381	10299	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71670_A_10301	NW_004515870.1	scaffold381	10301	GG	AA	AA	INTERGENIC			
SNP_71671_A_10341	NW_004515870.1	scaffold381	10341	GG	TT	TT	INTERGENIC			
SNP_71672_A_12667	NW_004515870.1	scaffold381	12667	TT	CC	CC	INTERGENIC			
SNP_71673_A_22838	NW_004515871.1	scaffold382	22838	TT	CC	CC	INTERGENIC			
SNP_71674_A_24874	NW_004515871.1	scaffold382	24874	TT	AA	AA	INTERGENIC			
SNP_71675_A_27149	NW_004515871.1	scaffold382	27149	TT	CC	CC	INTERGENIC			
SNP_71676_A_27157	NW_004515871.1	scaffold382	27157	TT	AA	AA	INTERGENIC			
SNP_71677_A_27162	NW_004515871.1	scaffold382	27162	TT	CC	CC	INTERGENIC			
SNP_71678_A_61062	NW_004515871.1	scaffold382	61062	GG	AA	AA	INTERGENIC			
SNP_71679_A_65145	NW_004515871.1	scaffold382	65145	CC	AA	AA	INTERGENIC			
SNP_71680_A_82241	NW_004515871.1	scaffold382	82241	TT	GG	GG	INTERGENIC			
SNP_71681_A_82247	NW_004515871.1	scaffold382	82247	TT	CC	CC	INTERGENIC			
SNP_71682_A_90785	NW_004515871.1	scaffold382	90785	AA	GG	GG	INTERGENIC			
SNP_71683_A_90807	NW_004515871.1	scaffold382	90807	CC	TT	TT	INTERGENIC			
SNP_71684_A_90823	NW_004515871.1	scaffold382	90823	CC	TT	TT	INTERGENIC			
SNP_71685_A_90984	NW_004515871.1	scaffold382	90984	CC	GG	GG	INTERGENIC			
SNP_71686_A_91008	NW_004515871.1	scaffold382	91008	GG	AA	AA	INTERGENIC			
SNP_71687_A_91088	NW_004515871.1	scaffold382	91088	CC	AA	AA	INTERGENIC			
SNP_71688_A_91129	NW_004515871.1	scaffold382	91129	TT	CC	CC	INTERGENIC			
SNP_71689_A_91259	NW_004515871.1	scaffold382	91259	TT	GG	GG	INTERGENIC			
SNP_71690_A_91295	NW_004515871.1	scaffold382	91295	GG	AA	AA	INTERGENIC			
SNP_71691_A_91332	NW_004515871.1	scaffold382	91332	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71692_A_9695	NW_004515872.1	scaffold383	9695	CC	TT	TT	INTERGENIC			
SNP_71693_A_9766	NW_004515872.1	scaffold383	9766	GG	AA	AA	INTERGENIC			
SNP_71694_A_9788	NW_004515872.1	scaffold383	9788	TT	CC	CC	INTERGENIC			
SNP_71695_A_9867	NW_004515872.1	scaffold383	9867	AA	CC	CC	INTERGENIC			
SNP_71696_A_9893	NW_004515872.1	scaffold383	9893	AA	GG	GG	INTERGENIC			
SNP_71697_A_9932	NW_004515872.1	scaffold383	9932	TT	CC	CC	INTERGENIC			
SNP_71698_A_16961	NW_004515872.1	scaffold383	16961	AA	GG	GG	INTERGENIC			
SNP_71699_A_17444	NW_004515872.1	scaffold383	17444	GG	CC	CC	INTERGENIC			
SNP_71700_A_17454	NW_004515872.1	scaffold383	17454	TT	GG	GG	INTERGENIC			
SNP_71701_A_17501	NW_004515872.1	scaffold383	17501	TT	CC	CC	INTERGENIC			
SNP_71702_A_17667	NW_004515872.1	scaffold383	17667	AA	GG	GG	INTERGENIC			
SNP_71703_A_57990	NW_004515872.1	scaffold383	57990	CC	GG	GG	INTERGENIC			
SNP_71704_A_77250	NW_004515872.1	scaffold383	77250	AA	GG	GG	INTERGENIC			
SNP_71705_A_80210	NW_004515872.1	scaffold383	80210	TT	GG	GG	INTERGENIC			
SNP_71706_A_81392	NW_004515872.1	scaffold383	81392	AA	TT	TT	INTERGENIC			
SNP_71707_A_81403	NW_004515872.1	scaffold383	81403	TT	CC	CC	INTERGENIC			
SNP_71708_A_81457	NW_004515872.1	scaffold383	81457	GG	AA	AA	INTERGENIC			
SNP_71709_A_81485	NW_004515872.1	scaffold383	81485	AA	GG	GG	INTERGENIC			
SNP_71710_A_81730	NW_004515872.1	scaffold383	81730	AA	GG	GG	INTERGENIC			
SNP_71711_A_81744	NW_004515872.1	scaffold383	81744	CC	TT	TT	INTERGENIC			
SNP_71712_A_81805	NW_004515872.1	scaffold383	81805	CC	AA	AA	INTERGENIC			
SNP_71713_A_81811	NW_004515872.1	scaffold383	81811	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71714_A_93813	NW_004515872.1	scaffold383	93813	AA	GG	GG	INTERGENIC			
SNP_71715_A_94019	NW_004515872.1	scaffold383	94019	TT	GG	GG	INTERGENIC			
SNP_71716_A_112484	NW_004515872.1	scaffold383	112484	TT	CC	CC	INTERGENIC			
SNP_71717_A_118733	NW_004515872.1	scaffold383	118733	CC	GG	GG	INTERGENIC			
SNP_71718_A_118755	NW_004515872.1	scaffold383	118755	AA	GG	GG	INTERGENIC			
SNP_71719_A_119074	NW_004515872.1	scaffold383	119074	AA	GG	GG	INTERGENIC			
SNP_71720_A_137309	NW_004515872.1	scaffold383	137309	TT	CC	CC	INTERGENIC			
SNP_71721_A_137452	NW_004515872.1	scaffold383	137452	AA	GG	GG	INTERGENIC			
SNP_71722_A_137468	NW_004515872.1	scaffold383	137468	GG	TT	TT	INTERGENIC			
SNP_71723_A_137888	NW_004515872.1	scaffold383	137888	TT	AA	AA	INTERGENIC			
SNP_71724_A_138514	NW_004515872.1	scaffold383	138514	AA	GG	GG	INTERGENIC			
SNP_71725_A_138774	NW_004515872.1	scaffold383	138774	AA	GG	GG	INTERGENIC			
SNP_71726_A_182265	NW_004515872.1	scaffold383	182265	GG	AA	AA	INTERGENIC			
SNP_71727_A_182488	NW_004515872.1	scaffold383	182488	AA	CC	CC	INTERGENIC			
SNP_71728_A_195666	NW_004515872.1	scaffold383	195666	TT	CC	CC	INTERGENIC			
SNP_71729_A_195796	NW_004515872.1	scaffold383	195796	CC	TT	TT	INTERGENIC			
SNP_71730_A_195890	NW_004515872.1	scaffold383	195890	TT	CC	CC	INTERGENIC			
SNP_71731_A_195962	NW_004515872.1	scaffold383	195962	TT	CC	CC	INTERGENIC			
SNP_71732_A_195976	NW_004515872.1	scaffold383	195976	GG	AA	AA	INTERGENIC			
SNP_71733_A_205338	NW_004515872.1	scaffold383	205338	CC	GG	GG	INTERGENIC			
SNP_71734_A_209972	NW_004515872.1	scaffold383	209972	AA	TT	TT	INTERGENIC			
SNP_71736_A_210001	NW_004515872.1	scaffold383	210001	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71737_A_210364	NW_004515872.1	scaffold383	210364	GG	AA	AA	INTERGENIC			
SNP_71738_A_2509	NW_004515873.1	scaffold387	2509	TT	GG	GG	INTERGENIC			
SNP_71739_A_2764	NW_004515873.1	scaffold387	2764	GG	TT	TT	INTERGENIC			
SNP_71740_A_15809	NW_004515873.1	scaffold387	15809	AA	GG	GG	INTERGENIC			
SNP_71741_A_15888	NW_004515873.1	scaffold387	15888	GG	TT	TT	INTERGENIC			
SNP_71742_A_15911	NW_004515873.1	scaffold387	15911	AA	CC	CC	INTERGENIC			
SNP_71743_A_15946	NW_004515873.1	scaffold387	15946	AA	TT	TT	INTERGENIC			
SNP_71744_A_15990	NW_004515873.1	scaffold387	15990	TT	CC	CC	INTERGENIC			
SNP_71745_A_16000	NW_004515873.1	scaffold387	16000	TT	AA	AA	INTERGENIC			
SNP_71747_A_16114	NW_004515873.1	scaffold387	16114	TT	CC	CC	INTERGENIC			
SNP_71748_A_16158	NW_004515873.1	scaffold387	16158	TT	GG	GG	INTERGENIC			
SNP_71749_A_16197	NW_004515873.1	scaffold387	16197	GG	TT	TT	INTERGENIC			
SNP_71750_A_16288	NW_004515873.1	scaffold387	16288	CC	TT	TT	INTERGENIC			
SNP_71751_A_16297	NW_004515873.1	scaffold387	16297	GG	AA	AA	INTERGENIC			
SNP_71752_A_16341	NW_004515873.1	scaffold387	16341	AA	CC	CC	INTERGENIC			
SNP_71753_A_16368	NW_004515873.1	scaffold387	16368	GG	AA	AA	INTERGENIC			
SNP_71754_A_16441	NW_004515873.1	scaffold387	16441	TT	AA	GG	INTERGENIC			
SNP_71755_A_16452	NW_004515873.1	scaffold387	16452	CC	GG	GG	INTERGENIC			
SNP_71756_A_16494	NW_004515873.1	scaffold387	16494	TT	CC	CC	INTERGENIC			
SNP_71757_A_16605	NW_004515873.1	scaffold387	16605	GG	AA	AA	INTERGENIC			
SNP_71758_A_16629	NW_004515873.1	scaffold387	16629	GG	TT	TT	INTERGENIC			
SNP_71759_A_16636	NW_004515873.1	scaffold387	16636	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71760_A_16668	NW_004515873.1	scaffold387	16668	TT	CC	CC	INTERGENIC			
SNP_71761_A_16679	NW_004515873.1	scaffold387	16679	AA	GG	GG	INTERGENIC			
SNP_71762_A_16692	NW_004515873.1	scaffold387	16692	GG	CC	CC	INTERGENIC			
SNP_71763_A_16703	NW_004515873.1	scaffold387	16703	TT	AA	AA	INTERGENIC			
SNP_71764_A_16760	NW_004515873.1	scaffold387	16760	CC	TT	TT	INTERGENIC			
SNP_71765_A_16789	NW_004515873.1	scaffold387	16789	GG	AA	AA	INTERGENIC			
SNP_71766_A_16797	NW_004515873.1	scaffold387	16797	GG	TT	TT	INTERGENIC			
SNP_71767_A_16805	NW_004515873.1	scaffold387	16805	CC	GG	GG	INTERGENIC			
SNP_71768_A_16816	NW_004515873.1	scaffold387	16816	AA	GG	GG	INTERGENIC			
SNP_71769_A_16827	NW_004515873.1	scaffold387	16827	AA	GG	GG	INTERGENIC			
SNP_71770_A_16842	NW_004515873.1	scaffold387	16842	TT	CC	CC	INTERGENIC			
SNP_71771_A_16891	NW_004515873.1	scaffold387	16891	CC	TT	TT	INTERGENIC			
SNP_71772_A_16897	NW_004515873.1	scaffold387	16897	GG	TT	TT	INTERGENIC			
SNP_71774_A_17282	NW_004515873.1	scaffold387	17282	TT	CC	CC	INTERGENIC			
SNP_71775_A_17613	NW_004515873.1	scaffold387	17613	CC	AA	AA	INTERGENIC			
SNP_71776_A_17718	NW_004515873.1	scaffold387	17718	CC	TT	TT	INTERGENIC			
SNP_71777_A_17760	NW_004515873.1	scaffold387	17760	AA	GG	GG	INTERGENIC			
SNP_71778_A_17766	NW_004515873.1	scaffold387	17766	CC	TT	TT	INTERGENIC			
SNP_71779_A_17775	NW_004515873.1	scaffold387	17775	CC	TT	TT	INTERGENIC			
SNP_71780_A_18058	NW_004515873.1	scaffold387	18058	CC	TT	TT	INTERGENIC			
SNP_71781_A_18101	NW_004515873.1	scaffold387	18101	AA	TT	TT	INTERGENIC			
SNP_71782_A_18107	NW_004515873.1	scaffold387	18107	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71783_A_18154	NW_004515873.1	scaffold387	18154	CC	TT	TT	INTERGENIC			
SNP_71784_A_18171	NW_004515873.1	scaffold387	18171	TT	AA	AA	INTERGENIC			
SNP_71785_A_18177	NW_004515873.1	scaffold387	18177	CC	TT	TT	INTERGENIC			
SNP_71786_A_18225	NW_004515873.1	scaffold387	18225	GG	AA	AA	INTERGENIC			
SNP_71787_A_18463	NW_004515873.1	scaffold387	18463	CC	AA	AA	INTERGENIC			
SNP_71788_A_18486	NW_004515873.1	scaffold387	18486	CC	TT	TT	INTERGENIC			
SNP_71789_A_18495	NW_004515873.1	scaffold387	18495	AA	GG	GG	INTERGENIC			
SNP_71790_A_18496	NW_004515873.1	scaffold387	18496	TT	CC	CC	INTERGENIC			
SNP_71791_A_18587	NW_004515873.1	scaffold387	18587	AA	GG	GG	INTERGENIC			
SNP_71792_A_18606	NW_004515873.1	scaffold387	18606	GG	AA	AA	INTERGENIC			
SNP_71793_A_18646	NW_004515873.1	scaffold387	18646	GG	TT	TT	INTERGENIC			
SNP_71794_A_18676	NW_004515873.1	scaffold387	18676	AA	GG	GG	INTERGENIC			
SNP_71795_A_18703	NW_004515873.1	scaffold387	18703	CC	GG	GG	INTERGENIC			
SNP_71796_A_18704	NW_004515873.1	scaffold387	18704	AA	GG	GG	INTERGENIC			
SNP_71797_A_18732	NW_004515873.1	scaffold387	18732	TT	CC	CC	INTERGENIC			
SNP_71798_A_18780	NW_004515873.1	scaffold387	18780	CC	TT	TT	INTERGENIC			
SNP_71799_A_18910	NW_004515873.1	scaffold387	18910	TT	CC	CC	INTERGENIC			
SNP_71800_A_18916	NW_004515873.1	scaffold387	18916	CC	AA	AA	INTERGENIC			
SNP_71801_A_18943	NW_004515873.1	scaffold387	18943	AA	CC	CC	INTERGENIC			
SNP_71802_A_18944	NW_004515873.1	scaffold387	18944	AA	TT	TT	INTERGENIC			
SNP_71803_A_18989	NW_004515873.1	scaffold387	18989	GG	TT	TT	INTERGENIC			
SNP_71804_A_19010	NW_004515873.1	scaffold387	19010	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71805_A_19020	NW_004515873.1	scaffold387	19020	GG	AA	AA	INTERGENIC			
SNP_71806_A_19068	NW_004515873.1	scaffold387	19068	CC	AA	AA	INTERGENIC			
SNP_71807_A_19175	NW_004515873.1	scaffold387	19175	AA	GG	GG	INTERGENIC			
SNP_71808_A_19178	NW_004515873.1	scaffold387	19178	AA	CC	CC	INTERGENIC			
SNP_71809_A_19247	NW_004515873.1	scaffold387	19247	TT	AA	AA	INTERGENIC			
SNP_71811_A_19284	NW_004515873.1	scaffold387	19284	GG	TT	TT	INTERGENIC			
SNP_71812_A_19395	NW_004515873.1	scaffold387	19395	CC	TT	TT	INTERGENIC			
SNP_71813_A_19467	NW_004515873.1	scaffold387	19467	TT	GG	GG	INTERGENIC			
SNP_71814_A_19545	NW_004515873.1	scaffold387	19545	CC	AA	AA	INTERGENIC			
SNP_71815_A_19574	NW_004515873.1	scaffold387	19574	GG	AA	AA	INTERGENIC			
SNP_71816_A_20794	NW_004515873.1	scaffold387	20794	TT	CC	CC	INTERGENIC			
SNP_71818_A_20802	NW_004515873.1	scaffold387	20802	TT	GG	GG	INTERGENIC			
SNP_71819_A_22841	NW_004515873.1	scaffold387	22841	GG	AA	AA	INTERGENIC			
SNP_71820_A_22845	NW_004515873.1	scaffold387	22845	CC	AA	AA	INTERGENIC			
SNP_71821_A_22907	NW_004515873.1	scaffold387	22907	GG	TT	TT	INTERGENIC			
SNP_71822_A_22932	NW_004515873.1	scaffold387	22932	AA	CC	CC	INTERGENIC			
SNP_71824_A_23003	NW_004515873.1	scaffold387	23003	TT	GG	GG	INTERGENIC			
SNP_71825_A_23028	NW_004515873.1	scaffold387	23028	GG	AA	AA	INTERGENIC			
SNP_71826_A_23087	NW_004515873.1	scaffold387	23087	GG	AA	AA	INTERGENIC			
SNP_71829_A_23519	NW_004515873.1	scaffold387	23519	AA	CC	CC	INTERGENIC			
SNP_71830_A_23531	NW_004515873.1	scaffold387	23531	TT	AA	AA	INTERGENIC			
SNP_71831_A_23538	NW_004515873.1	scaffold387	23538	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71833_A_23612	NW_004515873.1	scaffold387	23612	TT	AA	AA	INTERGENIC			
SNP_71834_A_23792	NW_004515873.1	scaffold387	23792	GG	AA	AA	INTERGENIC			
SNP_71835_A_23799	NW_004515873.1	scaffold387	23799	CC	TT	TT	INTERGENIC			
SNP_71836_A_23828	NW_004515873.1	scaffold387	23828	CC	AA	AA	INTERGENIC			
SNP_71837_A_23859	NW_004515873.1	scaffold387	23859	CC	TT	TT	INTERGENIC			
SNP_71838_A_23985	NW_004515873.1	scaffold387	23985	GG	TT	TT	INTERGENIC			
SNP_71839_A_24824	NW_004515873.1	scaffold387	24824	TT	CC	CC	INTERGENIC			
SNP_71840_A_25050	NW_004515873.1	scaffold387	25050	TT	AA	AA	INTERGENIC			
SNP_71841_A_25158	NW_004515873.1	scaffold387	25158	TT	GG	GG	INTERGENIC			
SNP_71842_A_31138	NW_004515873.1	scaffold387	31138	TT	AA	AA	INTERGENIC			
SNP_71843_A_31178	NW_004515873.1	scaffold387	31178	TT	CC	CC	INTERGENIC			
SNP_71844_A_40583	NW_004515873.1	scaffold387	40583	AA	GG	GG	INTERGENIC			
SNP_71845_A_71073	NW_004515873.1	scaffold387	71073	GG	CC	CC	INTERGENIC			
SNP_71846_A_97320	NW_004515873.1	scaffold387	97320	TT	CC	CC	INTERGENIC			
SNP_71847_A_97332	NW_004515873.1	scaffold387	97332	AA	GG	GG	INTERGENIC			
SNP_71848_A_114598	NW_004515873.1	scaffold387	114598	GG	AA	AA	INTERGENIC			
SNP_71849_A_121166	NW_004515873.1	scaffold387	121166	TT	CC	CC	INTERGENIC			
SNP_71850_A_121205	NW_004515873.1	scaffold387	121205	AA	GG	GG	INTERGENIC			
SNP_71851_A_123913	NW_004515873.1	scaffold387	123913	GG	AA	AA	INTERGENIC			
SNP_71852_A_123944	NW_004515873.1	scaffold387	123944	AA	GG	GG	INTERGENIC			
SNP_71853_A_159563	NW_004515873.1	scaffold387	159563	TT	AA	AA	INTERGENIC			
SNP_71854_A_159607	NW_004515873.1	scaffold387	159607	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71855_A_159610	NW_004515873.1	scaffold387	159610	AA	GG	GG	INTERGENIC			
SNP_71856_A_159614	NW_004515873.1	scaffold387	159614	GG	AA	AA	INTERGENIC			
SNP_71857_A_159615	NW_004515873.1	scaffold387	159615	AA	CC	CC	INTERGENIC			
SNP_71858_A_159616	NW_004515873.1	scaffold387	159616	TT	AA	AA	INTERGENIC			
SNP_71859_A_159617	NW_004515873.1	scaffold387	159617	GG	CC	CC	INTERGENIC			
SNP_71860_A_160046	NW_004515873.1	scaffold387	160046	AA	GG	GG	INTERGENIC			
SNP_71861_A_160796	NW_004515873.1	scaffold387	160796	AA	CC	CC	INTERGENIC			
SNP_71862_A_160836	NW_004515873.1	scaffold387	160836	CC	TT	TT	INTERGENIC			
SNP_71863_A_160844	NW_004515873.1	scaffold387	160844	TT	CC	CC	INTERGENIC			
SNP_71864_A_160846	NW_004515873.1	scaffold387	160846	GG	AA	AA	INTERGENIC			
SNP_71865_A_160916	NW_004515873.1	scaffold387	160916	CC	GG	GG	INTERGENIC			
SNP_71866_A_160947	NW_004515873.1	scaffold387	160947	CC	TT	TT	INTERGENIC			
SNP_71867_A_160959	NW_004515873.1	scaffold387	160959	AA	TT	TT	INTERGENIC			
SNP_71869_A_161031	NW_004515873.1	scaffold387	161031	AA	GG	GG	INTERGENIC			
SNP_71870_A_161103	NW_004515873.1	scaffold387	161103	AA	GG	GG	INTERGENIC			
SNP_71871_A_161136	NW_004515873.1	scaffold387	161136	GG	AA	AA	INTERGENIC			
SNP_71872_A_161141	NW_004515873.1	scaffold387	161141	AA	GG	GG	INTERGENIC			
SNP_71873_A_161207	NW_004515873.1	scaffold387	161207	GG	AA	AA	INTERGENIC			
SNP_71874_A_161211	NW_004515873.1	scaffold387	161211	AA	TT	TT	INTERGENIC			
SNP_71875_A_161283	NW_004515873.1	scaffold387	161283	AA	GG	GG	INTERGENIC			
SNP_71876_A_161353	NW_004515873.1	scaffold387	161353	AA	CC	CC	INTERGENIC			
SNP_71877_A_161446	NW_004515873.1	scaffold387	161446	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71878_A_161543	NW_004515873.1	scaffold387	161543	TT	CC	CC	INTERGENIC			
SNP_71879_A_7707	NW_004515874.1	scaffold388	7707	TT	GG	GG	INTERGENIC			
SNP_71880_A_12259	NW_004515874.1	scaffold388	12259	CC	AA	AA	INTERGENIC			
SNP_71881_A_17147	NW_004515874.1	scaffold388	17147	TT	AA	AA	INTERGENIC			
SNP_71882_A_23523	NW_004515874.1	scaffold388	23523	AA	CC	CC	INTERGENIC			
SNP_71883_A_26885	NW_004515874.1	scaffold388	26885	AA	GG	GG	INTERGENIC			
SNP_71884_A_30224	NW_004515874.1	scaffold388	30224	CC	TT	TT	INTERGENIC			
SNP_71885_A_30375	NW_004515874.1	scaffold388	30375	CC	TT	TT	INTERGENIC			
SNP_71886_A_30377	NW_004515874.1	scaffold388	30377	GG	AA	AA	INTERGENIC			
SNP_71887_A_30398	NW_004515874.1	scaffold388	30398	CC	TT	TT	INTERGENIC			
SNP_71888_A_30436	NW_004515874.1	scaffold388	30436	AA	GG	GG	INTERGENIC			
SNP_71889_A_31819	NW_004515874.1	scaffold388	31819	GG	TT	TT	INTERGENIC			
SNP_71890_A_31843	NW_004515874.1	scaffold388	31843	GG	AA	AA	INTERGENIC			
SNP_71891_A_31879	NW_004515874.1	scaffold388	31879	CC	TT	TT	INTERGENIC			
SNP_71892_A_31944	NW_004515874.1	scaffold388	31944	CC	TT	TT	INTERGENIC			
SNP_71893_A_32743	NW_004515874.1	scaffold388	32743	CC	TT	TT	INTERGENIC			
SNP_71894_A_33406	NW_004515874.1	scaffold388	33406	CC	TT	TT	INTERGENIC			
SNP_71895_A_34011	NW_004515874.1	scaffold388	34011	AA	GG	GG	INTERGENIC			
SNP_71896_A_35255	NW_004515874.1	scaffold388	35255	AA	TT	TT	INTERGENIC			
SNP_71897_A_35278	NW_004515874.1	scaffold388	35278	GG	AA	AA	INTERGENIC			
SNP_71898_A_35373	NW_004515874.1	scaffold388	35373	GG	TT	TT	INTERGENIC			
SNP_71899_A_35375	NW_004515874.1	scaffold388	35375	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71900_A_37089	NW_004515874.1	scaffold388	37089	CC	AA	AA	INTERGENIC			
SNP_71901_A_37117	NW_004515874.1	scaffold388	37117	CC	TT	TT	INTERGENIC			
SNP_71902_A_42629	NW_004515874.1	scaffold388	42629	TT	GG	GG	INTERGENIC			
SNP_71903_A_42679	NW_004515874.1	scaffold388	42679	AA	CC	CC	INTERGENIC			
SNP_71904_A_45606	NW_004515874.1	scaffold388	45606	TT	AA	AA	INTERGENIC			
SNP_71905_A_45612	NW_004515874.1	scaffold388	45612	GG	TT	TT	INTERGENIC			
SNP_71906_A_45613	NW_004515874.1	scaffold388	45613	TT	AA	AA	INTERGENIC			
SNP_71907_A_45615	NW_004515874.1	scaffold388	45615	CC	TT	TT	INTERGENIC			
SNP_71908_A_46955	NW_004515874.1	scaffold388	46955	CC	AA	AA	INTERGENIC			
SNP_71910_A_47130	NW_004515874.1	scaffold388	47130	AA	TT	TT	INTERGENIC			
SNP_71911_A_47874	NW_004515874.1	scaffold388	47874	AA	CC	CC	INTERGENIC			
SNP_71912_A_49911	NW_004515874.1	scaffold388	49911	AA	TT	TT	INTERGENIC			
SNP_71913_A_49912	NW_004515874.1	scaffold388	49912	AA	TT	TT	INTERGENIC			
SNP_71914_A_49927	NW_004515874.1	scaffold388	49927	GG	AA	AA	INTERGENIC			
SNP_71915_A_50595	NW_004515874.1	scaffold388	50595	AA	TT	TT	INTERGENIC			
SNP_71916_A_50914	NW_004515874.1	scaffold388	50914	GG	CC	CC	INTERGENIC			
SNP_71917_A_51215	NW_004515874.1	scaffold388	51215	TT	CC	CC	INTERGENIC			
SNP_71918_A_51246	NW_004515874.1	scaffold388	51246	GG	TT	TT	INTERGENIC			
SNP_71919_A_6979	NW_004515879.1	scaffold395	6979	CC	TT	TT	INTERGENIC			
SNP_71920_A_7023	NW_004515879.1	scaffold395	7023	AA	GG	GG	INTERGENIC			
SNP_71922_A_7229	NW_004515879.1	scaffold395	7229	TT	CC	CC	INTERGENIC			
SNP_71923_A_7302	NW_004515879.1	scaffold395	7302	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_71924_A_7554	NW_004515879.1	scaffold395	7554	TT	CC	CC	INTERGENIC		
SNP_71925_A_8113	NW_004515879.1	scaffold395	8113	GG	AA	AA	INTERGENIC		
SNP_71926_A_8126	NW_004515879.1	scaffold395	8126	TT	CC	CC	INTERGENIC		
SNP_71927_A_8129	NW_004515879.1	scaffold395	8129	AA	TT	TT	INTERGENIC		
SNP_71928_A_8137	NW_004515879.1	scaffold395	8137	GG	AA	AA	INTERGENIC		
SNP_71929_A_8149	NW_004515879.1	scaffold395	8149	AA	GG	GG	INTERGENIC		
SNP_71930_A_21705	NW_004515879.1	scaffold395	21705	CC	TT	TT	INTRON	101498710	uncharacterized LOC101498710
SNP_71931_A_31601	NW_004515879.1	scaffold395	31601	TT	GG	GG	INTERGENIC		
SNP_71932_A_31603	NW_004515879.1	scaffold395	31603	GG	TT	TT	INTERGENIC		
SNP_71933_A_32289	NW_004515879.1	scaffold395	32289	AA	GG	GG	INTERGENIC		
SNP_71934_A_32332	NW_004515879.1	scaffold395	32332	TT	AA	AA	INTERGENIC		
SNP_71935_A_32338	NW_004515879.1	scaffold395	32338	AA	CC	CC	INTERGENIC		
SNP_71938_A_125685	NW_004515879.1	scaffold395	125685	CC	AA	AA	INTERGENIC		
SNP_71939_A_125702	NW_004515879.1	scaffold395	125702	TT	CC	CC	INTERGENIC		
SNP_71940_A_125765	NW_004515879.1	scaffold395	125765	TT	CC	CC	INTERGENIC		
SNP_71941_A_125795	NW_004515879.1	scaffold395	125795	AA	GG	GG	INTERGENIC		
SNP_71942_A_125970	NW_004515879.1	scaffold395	125970	TT	CC	CC	INTERGENIC		
SNP_71943_A_125975	NW_004515879.1	scaffold395	125975	TT	CC	CC	INTERGENIC		
SNP_71945_A_126093	NW_004515879.1	scaffold395	126093	CC	TT	TT	INTERGENIC		
SNP_71946_A_126771	NW_004515879.1	scaffold395	126771	AA	GG	GG	INTERGENIC		
SNP_71947_A_126831	NW_004515879.1	scaffold395	126831	CC	TT	TT	INTERGENIC		
SNP_71948_A_126859	NW_004515879.1	scaffold395	126859	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71949_A_126994	NW_004515879.1	scaffold395	126994	CC	TT	TT	INTERGENIC			
SNP_71950_A_127007	NW_004515879.1	scaffold395	127007	CC	TT	TT	INTERGENIC			
SNP_71951_A_127042	NW_004515879.1	scaffold395	127042	AA	GG	GG	INTERGENIC			
SNP_71952_A_127053	NW_004515879.1	scaffold395	127053	TT	CC	CC	INTERGENIC			
SNP_71953_A_127063	NW_004515879.1	scaffold395	127063	AA	CC	CC	INTERGENIC			
SNP_71954_A_127066	NW_004515879.1	scaffold395	127066	GG	TT	TT	INTERGENIC			
SNP_71955_A_127072	NW_004515879.1	scaffold395	127072	TT	CC	CC	INTERGENIC			
SNP_71956_A_127091	NW_004515879.1	scaffold395	127091	CC	TT	TT	INTERGENIC			
SNP_71957_A_127238	NW_004515879.1	scaffold395	127238	CC	TT	TT	INTERGENIC			
SNP_71958_A_161465	NW_004515879.1	scaffold395	161465	TT	AA	AA	INTERGENIC			
SNP_71959_A_178544	NW_004515879.1	scaffold395	178544	AA	GG	GG	INTERGENIC			
SNP_71960_A_205401	NW_004515879.1	scaffold395	205401	AA	CC	CC	INTERGENIC			
SNP_71961_A_327321	NW_004515879.1	scaffold395	327321	TT	GG	GG	INTERGENIC			
SNP_71962_A_327340	NW_004515879.1	scaffold395	327340	AA	GG	GG	INTERGENIC			
SNP_71963_A_327375	NW_004515879.1	scaffold395	327375	CC	TT	TT	INTERGENIC			
SNP_71964_A_327447	NW_004515879.1	scaffold395	327447	TT	CC	CC	INTERGENIC			
SNP_71965_A_327549	NW_004515879.1	scaffold395	327549	AA	GG	GG	INTERGENIC			
SNP_71966_A_328024	NW_004515879.1	scaffold395	328024	AA	GG	GG	INTERGENIC			
SNP_71967_A_328091	NW_004515879.1	scaffold395	328091	TT	CC	CC	INTERGENIC			
SNP_71968_A_328156	NW_004515879.1	scaffold395	328156	TT	CC	CC	INTERGENIC			
SNP_71969_A_328411	NW_004515879.1	scaffold395	328411	AA	GG	GG	INTERGENIC			
SNP_71970_A_328534	NW_004515879.1	scaffold395	328534	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71971_A_328593	NW_004515879.1	scaffold395	328593	CC	TT	TT	INTERGENIC			
SNP_71972_A_331762	NW_004515879.1	scaffold395	331762	AA	GG	GG	INTERGENIC			
SNP_71973_A_97	NW_004515880.1	scaffold396	97	AA	GG	GG	INTERGENIC			
SNP_71974_A_6186	NW_004515880.1	scaffold396	6186	GG	AA	AA	INTERGENIC			
SNP_71975_A_6213	NW_004515880.1	scaffold396	6213	CC	TT	TT	INTERGENIC			
SNP_71976_A_31332	NW_004515880.1	scaffold396	31332	GG	AA	AA	DRR	101504349	uncharacterized LOC101504349	
SNP_71977_A_114378	NW_004515880.1	scaffold396	114378	TT	GG	GG	INTERGENIC			
SNP_71978_A_141518	NW_004515880.1	scaffold396	141518	GG	TT	TT	INTERGENIC			
SNP_71979_A_158121	NW_004515880.1	scaffold396	158121	AA	TT	TT	INTERGENIC			
SNP_71980_A_158465	NW_004515880.1	scaffold396	158465	TT	CC	CC	INTERGENIC			
SNP_71981_A_243568	NW_004515880.1	scaffold396	243568	TT	AA	AA	INTERGENIC			
SNP_71982_A_273292	NW_004515880.1	scaffold396	273292	AA	GG	GG	INTERGENIC			
SNP_71983_A_275466	NW_004515880.1	scaffold396	275466	TT	AA	AA	INTERGENIC			
SNP_71984_A_275504	NW_004515880.1	scaffold396	275504	TT	CC	CC	INTERGENIC			
SNP_71985_A_275545	NW_004515880.1	scaffold396	275545	AA	CC	CC	INTERGENIC			
SNP_71986_A_275825	NW_004515880.1	scaffold396	275825	TT	GG	GG	INTERGENIC			
SNP_71989_A_425408	NW_004515880.1	scaffold396	425408	TT	AA	AA	INTERGENIC			
SNP_71990_A_425471	NW_004515880.1	scaffold396	425471	TT	CC	CC	INTERGENIC			
SNP_71991_A_458527	NW_004515880.1	scaffold396	458527	CC	TT	TT	INTERGENIC			
SNP_71992_A_467514	NW_004515880.1	scaffold396	467514	GG	TT	TT	INTERGENIC			
SNP_71993_A_467626	NW_004515880.1	scaffold396	467626	TT	AA	AA	INTERGENIC			
SNP_71994_A_477322	NW_004515880.1	scaffold396	477322	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_71995_A_477326	NW_004515880.1	scaffold396	477326	CC	AA	AA	INTERGENIC			
SNP_71996_A_477628	NW_004515880.1	scaffold396	477628	AA	GG	GG	INTERGENIC			
SNP_71997_A_477781	NW_004515880.1	scaffold396	477781	AA	TT	TT	INTERGENIC			
SNP_71998_A_477801	NW_004515880.1	scaffold396	477801	TT	CC	CC	INTERGENIC			
SNP_71999_A_477814	NW_004515880.1	scaffold396	477814	AA	CC	CC	INTERGENIC			
SNP_72000_A_478135	NW_004515880.1	scaffold396	478135	TT	AA	AA	INTERGENIC			
SNP_72001_A_478146	NW_004515880.1	scaffold396	478146	TT	GG	GG	INTERGENIC			
SNP_72002_A_478152	NW_004515880.1	scaffold396	478152	CC	GG	GG	INTERGENIC			
SNP_72003_A_520378	NW_004515880.1	scaffold396	520378	TT	CC	CC	INTERGENIC			
SNP_72004_A_520413	NW_004515880.1	scaffold396	520413	TT	GG	GG	INTERGENIC			
SNP_72005_A_520549	NW_004515880.1	scaffold396	520549	AA	TT	TT	INTERGENIC			
SNP_72006_A_520558	NW_004515880.1	scaffold396	520558	CC	AA	AA	INTERGENIC			
SNP_72007_A_520785	NW_004515880.1	scaffold396	520785	CC	AA	AA	INTERGENIC			
SNP_72008_A_525239	NW_004515880.1	scaffold396	525239	TT	CC	CC	INTERGENIC			
SNP_72009_A_525270	NW_004515880.1	scaffold396	525270	CC	TT	TT	INTERGENIC			
SNP_72010_A_525550	NW_004515880.1	scaffold396	525550	AA	GG	GG	INTERGENIC			
SNP_72011_A_525599	NW_004515880.1	scaffold396	525599	CC	AA	AA	INTERGENIC			
SNP_72012_A_528994	NW_004515880.1	scaffold396	528994	AA	GG	GG	INTERGENIC			
SNP_72013_A_529162	NW_004515880.1	scaffold396	529162	TT	GG	GG	INTERGENIC			
SNP_72014_A_529186	NW_004515880.1	scaffold396	529186	CC	GG	GG	INTERGENIC			
SNP_72015_A_529378	NW_004515880.1	scaffold396	529378	CC	GG	GG	INTERGENIC			
SNP_72016_A_529453	NW_004515880.1	scaffold396	529453	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72017_A_529454	NW_004515880.1	scaffold396	529454	TT	AA	AA	INTERGENIC			
SNP_72018_A_529492	NW_004515880.1	scaffold396	529492	TT	GG	GG	INTERGENIC			
SNP_72019_A_529558	NW_004515880.1	scaffold396	529558	AA	TT	TT	INTERGENIC			
SNP_72020_A_556172	NW_004515880.1	scaffold396	556172	AA	CC	CC	INTERGENIC			
SNP_72021_A_556214	NW_004515880.1	scaffold396	556214	CC	GG	GG	INTERGENIC			
SNP_72022_A_556343	NW_004515880.1	scaffold396	556343	AA	TT	TT	INTERGENIC			
SNP_72023_A_577392	NW_004515880.1	scaffold396	577392	TT	GG	GG	INTERGENIC			
SNP_72024_A_577476	NW_004515880.1	scaffold396	577476	AA	GG	GG	INTERGENIC			
SNP_72025_A_577481	NW_004515880.1	scaffold396	577481	AA	CC	CC	INTERGENIC			
SNP_72026_A_577493	NW_004515880.1	scaffold396	577493	AA	CC	CC	INTERGENIC			
SNP_72027_A_577497	NW_004515880.1	scaffold396	577497	AA	TT	TT	INTERGENIC			
SNP_72028_A_577498	NW_004515880.1	scaffold396	577498	AA	GG	GG	INTERGENIC			
SNP_72030_A_577615	NW_004515880.1	scaffold396	577615	TT	GG	GG	INTERGENIC			
SNP_72032_A_577976	NW_004515880.1	scaffold396	577976	AA	CC	CC	INTERGENIC			
SNP_72034_A_588535	NW_004515880.1	scaffold396	588535	TT	AA	AA	INTERGENIC			
SNP_72035_A_592937	NW_004515880.1	scaffold396	592937	TT	CC	CC	URR	101508202	uncharacterized LOC101508202	
SNP_72036_A_593087	NW_004515880.1	scaffold396	593087	TT	CC	CC	URR	101508202	uncharacterized LOC101508202	
SNP_72037_A_593190	NW_004515880.1	scaffold396	593190	TT	AA	AA	URR	101508202	uncharacterized LOC101508202	
SNP_72038_A_593209	NW_004515880.1	scaffold396	593209	AA	CC	CC	URR	101508202	uncharacterized LOC101508202	
SNP_72039_A_593216	NW_004515880.1	scaffold396	593216	TT	AA	AA	URR	101508202	uncharacterized LOC101508202	
SNP_72040_A_593454	NW_004515880.1	scaffold396	593454	TT	AA	AA	INTERGENIC			
SNP_72041_A_598671	NW_004515880.1	scaffold396	598671	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72042_A_8465	NW_004515881.1	scaffold397	8465	CC	TT	TT	INTERGENIC			
SNP_72043_A_9122	NW_004515881.1	scaffold397	9122	TT	CC	CC	INTERGENIC			
SNP_72044_A_10136	NW_004515881.1	scaffold397	10136	CC	TT	TT	INTERGENIC			
SNP_72046_A_85771	NW_004515881.1	scaffold397	85771	TT	CC	CC	INTERGENIC			
SNP_72047_A_87186	NW_004515881.1	scaffold397	87186	AA	TT	TT	INTERGENIC			
SNP_72048_A_96180	NW_004515881.1	scaffold397	96180	GG	TT	TT	INTERGENIC			
SNP_72049_A_96990	NW_004515881.1	scaffold397	96990	GG	AA	AA	INTERGENIC			
SNP_72050_A_131144	NW_004515881.1	scaffold397	131144	CC	TT	TT	INTERGENIC			
SNP_72051_A_131201	NW_004515881.1	scaffold397	131201	CC	GG	GG	INTERGENIC			
SNP_72052_A_131257	NW_004515881.1	scaffold397	131257	GG	AA	AA	INTERGENIC			
SNP_72053_A_143498	NW_004515881.1	scaffold397	143498	AA	TT	TT	INTERGENIC			
SNP_72054_A_143776	NW_004515881.1	scaffold397	143776	TT	CC	CC	INTERGENIC			
SNP_72055_A_143806	NW_004515881.1	scaffold397	143806	TT	CC	CC	INTERGENIC			
SNP_72056_A_143815	NW_004515881.1	scaffold397	143815	AA	GG	GG	INTERGENIC			
SNP_72057_A_143831	NW_004515881.1	scaffold397	143831	AA	GG	GG	INTERGENIC			
SNP_72058_A_143911	NW_004515881.1	scaffold397	143911	TT	CC	CC	INTERGENIC			
SNP_72059_A_143913	NW_004515881.1	scaffold397	143913	GG	TT	TT	INTERGENIC			
SNP_72060_A_143932	NW_004515881.1	scaffold397	143932	CC	TT	TT	INTERGENIC			
SNP_72061_A_143947	NW_004515881.1	scaffold397	143947	TT	CC	CC	INTERGENIC			
SNP_72062_A_144790	NW_004515881.1	scaffold397	144790	CC	TT	TT	INTERGENIC			
SNP_72063_A_166941	NW_004515881.1	scaffold397	166941	TT	CC	CC	INTERGENIC			
SNP_72064_A_167197	NW_004515881.1	scaffold397	167197	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72066_A_175276	NW_004515881.1	scaffold397	175276	CC	TT	TT	INTERGENIC		
SNP_72067_A_185153	NW_004515881.1	scaffold397	185153	AA	GG	GG	INTERGENIC		
SNP_72068_A_185160	NW_004515881.1	scaffold397	185160	CC	TT	TT	INTERGENIC		
SNP_72069_A_185373	NW_004515881.1	scaffold397	185373	TT	CC	CC	INTERGENIC		
SNP_72070_A_185414	NW_004515881.1	scaffold397	185414	CC	AA	AA	INTERGENIC		
SNP_72071_A_195269	NW_004515881.1	scaffold397	195269	CC	TT	TT	INTERGENIC		
SNP_72072_A_232123	NW_004515881.1	scaffold397	232123	GG	CC	CC	INTERGENIC		
SNP_72073_A_331264	NW_004515881.1	scaffold397	331264	AA	GG	GG	INTRON	101509160	Unknown function
SNP_72074_A_331586	NW_004515881.1	scaffold397	331586	CC	TT	TT	INTRON	101509160	Unknown function
SNP_72075_A_331596	NW_004515881.1	scaffold397	331596	CC	TT	TT	INTRON	101509160	Unknown function
SNP_72076_A_331604	NW_004515881.1	scaffold397	331604	AA	TT	TT	INTRON	101509160	Unknown function
SNP_72077_A_331612	NW_004515881.1	scaffold397	331612	TT	AA	AA	INTRON	101509160	Unknown function
SNP_72078_A_350791	NW_004515881.1	scaffold397	350791	CC	TT	TT	INTRON	101509160	Unknown function
SNP_72079_A_391775	NW_004515881.1	scaffold397	391775	CC	AA	AA	INTERGENIC		
SNP_72080_A_422492	NW_004515881.1	scaffold397	422492	CC	TT	TT	INTERGENIC		
SNP_72081_A_436067	NW_004515881.1	scaffold397	436067	AA	TT	TT	INTERGENIC		
SNP_72082_A_436101	NW_004515881.1	scaffold397	436101	CC	AA	AA	INTERGENIC		
SNP_72083_A_436241	NW_004515881.1	scaffold397	436241	GG	CC	CC	INTERGENIC		
SNP_72084_A_436260	NW_004515881.1	scaffold397	436260	TT	AA	AA	INTERGENIC		
SNP_72085_A_436368	NW_004515881.1	scaffold397	436368	AA	TT	TT	INTERGENIC		
SNP_72086_A_436416	NW_004515881.1	scaffold397	436416	TT	CC	CC	INTERGENIC		
SNP_72088_A_12238	NW_004515882.1	scaffold398	12238	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72089_A_13106	NW_004515882.1	scaffold398	13106	GG	AA	AA	INTERGENIC			
SNP_72090_A_17867	NW_004515882.1	scaffold398	17867	AA	TT	TT	INTERGENIC			
SNP_72093_A_18073	NW_004515882.1	scaffold398	18073	CC	AA	AA	INTERGENIC			
SNP_72094_A_18191	NW_004515882.1	scaffold398	18191	AA	GG	GG	INTERGENIC			
SNP_72095_A_21248	NW_004515882.1	scaffold398	21248	AA	GG	GG	INTERGENIC			
SNP_72096_A_21254	NW_004515882.1	scaffold398	21254	AA	GG	GG	INTERGENIC			
SNP_72097_A_21265	NW_004515882.1	scaffold398	21265	GG	AA	AA	INTERGENIC			
SNP_72098_A_21281	NW_004515882.1	scaffold398	21281	GG	AA	AA	INTERGENIC			
SNP_72099_A_21287	NW_004515882.1	scaffold398	21287	CC	TT	TT	INTERGENIC			
SNP_72100_A_21293	NW_004515882.1	scaffold398	21293	TT	CC	CC	INTERGENIC			
SNP_72101_A_21301	NW_004515882.1	scaffold398	21301	GG	CC	CC	INTERGENIC			
SNP_72102_A_21314	NW_004515882.1	scaffold398	21314	AA	CC	CC	INTERGENIC			
SNP_72104_A_21374	NW_004515882.1	scaffold398	21374	GG	AA	AA	INTERGENIC			
SNP_72105_A_21396	NW_004515882.1	scaffold398	21396	CC	TT	TT	INTERGENIC			
SNP_72106_A_21449	NW_004515882.1	scaffold398	21449	CC	TT	TT	INTERGENIC			
SNP_72107_A_21452	NW_004515882.1	scaffold398	21452	CC	TT	TT	INTERGENIC			
SNP_72108_A_21458	NW_004515882.1	scaffold398	21458	AA	TT	TT	INTERGENIC			
SNP_72109_A_21470	NW_004515882.1	scaffold398	21470	CC	AA	AA	INTERGENIC			
SNP_72110_A_21476	NW_004515882.1	scaffold398	21476	GG	TT	TT	INTERGENIC			
SNP_72111_A_21600	NW_004515882.1	scaffold398	21600	AA	TT	TT	INTERGENIC			
SNP_72112_A_21762	NW_004515882.1	scaffold398	21762	CC	TT	TT	INTERGENIC			
SNP_72113_A_21785	NW_004515882.1	scaffold398	21785	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72114_A_25144	NW_004515882.1	scaffold398	25144	GG	AA	AA	INTERGENIC			
SNP_72116_A_31646	NW_004515882.1	scaffold398	31646	AA	GG	GG	INTERGENIC			
SNP_72118_A_33266	NW_004515882.1	scaffold398	33266	AA	GG	GG	INTERGENIC			
SNP_72120_A_33381	NW_004515882.1	scaffold398	33381	GG	AA	AA	INTERGENIC			
SNP_72121_A_33497	NW_004515882.1	scaffold398	33497	AA	GG	GG	INTERGENIC			
SNP_72122_A_33553	NW_004515882.1	scaffold398	33553	CC	AA	AA	INTERGENIC			
SNP_72123_A_33595	NW_004515882.1	scaffold398	33595	AA	TT	TT	INTERGENIC			
SNP_72124_A_33695	NW_004515882.1	scaffold398	33695	TT	CC	CC	INTERGENIC			
SNP_72127_A_33943	NW_004515882.1	scaffold398	33943	TT	AA	AA	INTERGENIC			
SNP_72128_A_34039	NW_004515882.1	scaffold398	34039	GG	TT	TT	INTERGENIC			
SNP_72129_A_34092	NW_004515882.1	scaffold398	34092	TT	GG	GG	INTERGENIC			
SNP_72130_A_36333	NW_004515882.1	scaffold398	36333	AA	TT	TT	INTERGENIC			
SNP_72131_A_39956	NW_004515882.1	scaffold398	39956	CC	TT	TT	INTERGENIC			
SNP_72132_A_43361	NW_004515882.1	scaffold398	43361	TT	CC	CC	INTERGENIC			
SNP_72133_A_44210	NW_004515882.1	scaffold398	44210	CC	GG	GG	INTERGENIC			
SNP_72135_A_45433	NW_004515882.1	scaffold398	45433	GG	AA	AA	INTERGENIC			
SNP_72136_A_48961	NW_004515882.1	scaffold398	48961	CC	TT	TT	INTERGENIC			
SNP_72137_A_51336	NW_004515882.1	scaffold398	51336	GG	AA	AA	INTERGENIC			
SNP_72138_A_61213	NW_004515882.1	scaffold398	61213	AA	GG	GG	INTERGENIC			
SNP_72139_A_64757	NW_004515882.1	scaffold398	64757	TT	CC	CC	INTERGENIC			
SNP_72140_A_68140	NW_004515882.1	scaffold398	68140	AA	GG	GG	INTERGENIC			
SNP_72141_A_68223	NW_004515882.1	scaffold398	68223	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72142_A_68422	NW_004515882.1	scaffold398	68422	AA	GG	GG	INTERGENIC			
SNP_72143_A_68485	NW_004515882.1	scaffold398	68485	AA	GG	GG	INTERGENIC			
SNP_72144_A_68855	NW_004515882.1	scaffold398	68855	GG	AA	AA	INTERGENIC			
SNP_72145_A_69381	NW_004515882.1	scaffold398	69381	CC	TT	TT	INTERGENIC			
SNP_72146_A_71140	NW_004515882.1	scaffold398	71140	CC	TT	TT	INTERGENIC			
SNP_72147_A_73980	NW_004515882.1	scaffold398	73980	GG	AA	AA	INTERGENIC			
SNP_72148_A_88751	NW_004515882.1	scaffold398	88751	GG	AA	AA	INTERGENIC			
SNP_72149_A_89525	NW_004515882.1	scaffold398	89525	CC	TT	TT	INTERGENIC			
SNP_72150_A_89626	NW_004515882.1	scaffold398	89626	AA	GG	GG	INTERGENIC			
SNP_72151_A_90135	NW_004515882.1	scaffold398	90135	AA	CC	CC	INTERGENIC			
SNP_72152_A_91458	NW_004515882.1	scaffold398	91458	GG	AA	AA	INTERGENIC			
SNP_72153_A_95271	NW_004515882.1	scaffold398	95271	CC	AA	AA	INTERGENIC			
SNP_72154_A_101950	NW_004515882.1	scaffold398	101950	TT	AA	AA	DRR	101514437	uncharacterized LOC101514437	
SNP_72155_A_101956	NW_004515882.1	scaffold398	101956	AA	TT	TT	DRR	101514437	uncharacterized LOC101514437	
SNP_72156_A_103564	NW_004515882.1	scaffold398	103564	CC	TT	TT	URR	101514437	uncharacterized LOC101514437	
SNP_72157_A_105649	NW_004515882.1	scaffold398	105649	AA	GG	GG	INTERGENIC			
SNP_72158_A_110797	NW_004515882.1	scaffold398	110797	GG	AA	AA	INTERGENIC			
SNP_72159_A_110798	NW_004515882.1	scaffold398	110798	AA	GG	GG	INTERGENIC			
SNP_72160_A_121579	NW_004515882.1	scaffold398	121579	GG	CC	CC	URR	101514761	Unknown function	
SNP_72161_A_125931	NW_004515882.1	scaffold398	125931	GG	AA	AA	INTERGENIC			
SNP_72162_A_129822	NW_004515882.1	scaffold398	129822	AA	CC	CC	INTERGENIC			
SNP_72163_A_131706	NW_004515882.1	scaffold398	131706	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72164_A_132634	NW_004515882.1	scaffold398	132634	CC	TT	TT	INTERGENIC		
SNP_72167_A_206571	NW_004515882.1	scaffold398	206571	CC	TT	TT	INTERGENIC		
SNP_72168_A_206723	NW_004515882.1	scaffold398	206723	AA	TT	TT	INTERGENIC		
SNP_72169_A_209906	NW_004515882.1	scaffold398	209906	AA	GG	GG	INTERGENIC		
SNP_72170_A_211650	NW_004515882.1	scaffold398	211650	CC	TT	TT	INTERGENIC		
SNP_72171_A_213393	NW_004515882.1	scaffold398	213393	TT	CC	CC	INTERGENIC		
SNP_72173_A_213652	NW_004515882.1	scaffold398	213652	CC	AA	AA	INTERGENIC		
SNP_72174_A_215214	NW_004515882.1	scaffold398	215214	TT	GG	GG	INTERGENIC		
SNP_72175_A_247617	NW_004515882.1	scaffold398	247617	GG	TT	TT	URR	101515410	uncharacterized LOC101515410
SNP_72176_A_247645	NW_004515882.1	scaffold398	247645	GG	AA	AA	URR	101515410	uncharacterized LOC101515410
SNP_72177_A_247652	NW_004515882.1	scaffold398	247652	CC	AA	GG	URR	101515410	uncharacterized LOC101515410
SNP_72178_A_247663	NW_004515882.1	scaffold398	247663	AA	GG	GG	URR	101515410	uncharacterized LOC101515410
SNP_72179_A_247664	NW_004515882.1	scaffold398	247664	GG	AA	AA	URR	101515410	uncharacterized LOC101515410
SNP_72180_A_247673	NW_004515882.1	scaffold398	247673	AA	CC	CC	URR	101515410	uncharacterized LOC101515410
SNP_72181_A_248311	NW_004515882.1	scaffold398	248311	TT	AA	AA	URR	101515410	uncharacterized LOC101515410
SNP_72182_A_249951	NW_004515882.1	scaffold398	249951	CC	GG	GG	INTERGENIC		
SNP_72183_A_251310	NW_004515882.1	scaffold398	251310	AA	GG	GG	INTERGENIC		
SNP_72184_A_252587	NW_004515882.1	scaffold398	252587	CC	TT	TT	INTERGENIC		
SNP_72186_A_253489	NW_004515882.1	scaffold398	253489	AA	GG	GG	DRR	101510450	uncharacterized LOC101510450
SNP_72187_A_257757	NW_004515882.1	scaffold398	257757	AA	GG	GG	URR	101510450	uncharacterized LOC101510450
SNP_72188_A_258851	NW_004515882.1	scaffold398	258851	CC	TT	TT	URR	101510450	uncharacterized LOC101510450
SNP_72191_A_268616	NW_004515882.1	scaffold398	268616	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72192_A_268651	NW_004515882.1	scaffold398	268651	CC	TT	TT	INTERGENIC		
SNP_72193_A_269345	NW_004515882.1	scaffold398	269345	AA	GG	GG	DRR	101410606	transfer RNA glycine (anticodon UCC)
SNP_72195_A_269510	NW_004515882.1	scaffold398	269510	CC	TT	TT	DRR	101410606	transfer RNA glycine (anticodon UCC)
SNP_72197_A_270519	NW_004515882.1	scaffold398	270519	CC	TT	TT	URR	101410606	transfer RNA glycine (anticodon UCC)
SNP_72199_A_271609	NW_004515882.1	scaffold398	271609	TT	AA	AA	URR	101410606	transfer RNA glycine (anticodon UCC)
SNP_72200_A_271624	NW_004515882.1	scaffold398	271624	CC	GG	GG	URR	101410606	transfer RNA glycine (anticodon UCC)
SNP_72201_A_275131	NW_004515882.1	scaffold398	275131	CC	TT	TT	INTERGENIC		
SNP_72202_A_275653	NW_004515882.1	scaffold398	275653	AA	GG	GG	DRR	101511307	histone-lysine N-methyltransferase ATXR4
SNP_72203_A_275954	NW_004515882.1	scaffold398	275954	CC	TT	TT	DRR	101511307	histone-lysine N-methyltransferase ATXR4
SNP_72204_A_287934	NW_004515882.1	scaffold398	287934	CC	TT	TT	INTERGENIC		
SNP_72206_A_288429	NW_004515882.1	scaffold398	288429	CC	TT	TT	INTERGENIC		
SNP_72208_A_289080	NW_004515882.1	scaffold398	289080	TT	CC	CC	INTERGENIC		
SNP_72209_A_289576	NW_004515882.1	scaffold398	289576	TT	CC	CC	INTERGENIC		
SNP_72210_A_290320	NW_004515882.1	scaffold398	290320	CC	AA	AA	INTERGENIC		
SNP_72211_A_290333	NW_004515882.1	scaffold398	290333	CC	TT	TT	INTERGENIC		
SNP_72214_A_290857	NW_004515882.1	scaffold398	290857	GG	AA	AA	INTERGENIC		
SNP_72215_A_301411	NW_004515882.1	scaffold398	301411	CC	TT	TT	URR	101511632	DEAD-box ATP-dependent RNA helicase 37-like
SNP_72216_A_301782	NW_004515882.1	scaffold398	301782	GG	CC	CC	URR	101511632	DEAD-box ATP-dependent RNA helicase 37-like
SNP_72217_A_302172	NW_004515882.1	scaffold398	302172	GG	AA	AA	URR	101511632	DEAD-box ATP-dependent RNA helicase 37-like
SNP_72219_A_308902	NW_004515882.1	scaffold398	308902	CC	AA	AA	INTERGENIC		
SNP_72220_A_315585	NW_004515882.1	scaffold398	315585	AA	TT	TT	URR	101511959	F-box protein At3g58530
SNP_72221_A_319018	NW_004515882.1	scaffold398	319018	TT	CC	CC	URR	101512287	pentatricopeptide repeat-containing protein At2g45350, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72223_A_328960	NW_004515882.1	scaffold398	328960	AA	GG	GG	INTERGENIC		
SNP_72224_A_331130	NW_004515882.1	scaffold398	331130	CC	TT	TT	INTERGENIC		
SNP_72225_A_331476	NW_004515882.1	scaffold398	331476	GG	AA	AA	INTERGENIC		
SNP_72226_A_331477	NW_004515882.1	scaffold398	331477	TT	GG	GG	INTERGENIC		
SNP_72227_A_331777	NW_004515882.1	scaffold398	331777	GG	AA	AA	INTERGENIC		
SNP_72228_A_332581	NW_004515882.1	scaffold398	332581	AA	GG	GG	INTERGENIC		
SNP_72229_A_332605	NW_004515882.1	scaffold398	332605	GG	AA	AA	INTERGENIC		
SNP_72230_A_332627	NW_004515882.1	scaffold398	332627	CC	GG	GG	INTERGENIC		
SNP_72231_A_332628	NW_004515882.1	scaffold398	332628	AA	GG	GG	INTERGENIC		
SNP_72232_A_333328	NW_004515882.1	scaffold398	333328	TT	CC	CC	INTERGENIC		
SNP_72233_A_333332	NW_004515882.1	scaffold398	333332	AA	GG	GG	INTERGENIC		
SNP_72234_A_334941	NW_004515882.1	scaffold398	334941	CC	GG	GG	INTERGENIC		
SNP_72235_A_335003	NW_004515882.1	scaffold398	335003	AA	GG	GG	INTERGENIC		
SNP_72236_A_339214	NW_004515882.1	scaffold398	339214	GG	AA	AA	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72237_A_339285	NW_004515882.1	scaffold398	339285	CC	AA	AA	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72239_A_339365	NW_004515882.1	scaffold398	339365	GG	AA	AA	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72240_A_339377	NW_004515882.1	scaffold398	339377	AA	GG	GG	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72242_A_339546	NW_004515882.1	scaffold398	339546	GG	AA	AA	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72243_A_339558	NW_004515882.1	scaffold398	339558	TT	CC	CC	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72244_A_339923	NW_004515882.1	scaffold398	339923	AA	GG	GG	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72245_A_340160	NW_004515882.1	scaffold398	340160	GG	CC	CC	DRR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72246_A_344575	NW_004515882.1	scaffold398	344575	GG	AA	AA	INTRON	101512617	carbon catabolite repressor protein 4 homolog 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72248_A_345467	NW_004515882.1	scaffold398	345467	GG	CC	CC	INTRON	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72249_A_347386	NW_004515882.1	scaffold398	347386	CC	TT	TT	URR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72251_A_348033	NW_004515882.1	scaffold398	348033	GG	TT	TT	URR	101512617	carbon catabolite repressor protein 4 homolog 2-like
SNP_72252_A_352507	NW_004515882.1	scaffold398	352507	TT	GG	GG	INTERGENIC		
SNP_72253_A_365333	NW_004515882.1	scaffold398	365333	AA	CC	CC	INTERGENIC		
SNP_72254_A_366740	NW_004515882.1	scaffold398	366740	TT	GG	GG	DRR	101513136	dirigent protein 22-like
SNP_72255_A_366946	NW_004515882.1	scaffold398	366946	AA	TT	TT	DRR	101513136	dirigent protein 22-like
SNP_72256_A_366979	NW_004515882.1	scaffold398	366979	CC	TT	TT	DRR	101513136	dirigent protein 22-like
SNP_72257_A_367035	NW_004515882.1	scaffold398	367035	TT	CC	CC	DRR	101513136	dirigent protein 22-like
SNP_72260_A_373810	NW_004515882.1	scaffold398	373810	TT	CC	CC	INTRON	101513463	elongation factor 1-alpha-like
SNP_72261_A_377918	NW_004515882.1	scaffold398	377918	GG	AA	AA	INTERGENIC		
SNP_72262_A_378674	NW_004515882.1	scaffold398	378674	AA	GG	GG	INTERGENIC		
SNP_72263_A_378703	NW_004515882.1	scaffold398	378703	TT	CC	CC	INTERGENIC		
SNP_72264_A_378801	NW_004515882.1	scaffold398	378801	AA	GG	GG	INTERGENIC		
SNP_72265_A_378810	NW_004515882.1	scaffold398	378810	AA	GG	GG	INTERGENIC		
SNP_72266_A_378827	NW_004515882.1	scaffold398	378827	AA	GG	GG	INTERGENIC		
SNP_72267_A_378869	NW_004515882.1	scaffold398	378869	GG	AA	AA	INTERGENIC		
SNP_72268_A_378990	NW_004515882.1	scaffold398	378990	AA	CC	CC	INTERGENIC		
SNP_72269_A_379026	NW_004515882.1	scaffold398	379026	CC	TT	TT	INTERGENIC		
SNP_72270_A_379041	NW_004515882.1	scaffold398	379041	CC	TT	TT	INTERGENIC		
SNP_72272_A_379155	NW_004515882.1	scaffold398	379155	AA	TT	TT	INTERGENIC		
SNP_72273_A_382682	NW_004515882.1	scaffold398	382682	AA	CC	CC	DRR	101488508	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72274_A_383276	NW_004515882.1	scaffold398	383276	GG	AA	AA	DRR	101488508	Unknown function
SNP_72275_A_384210	NW_004515882.1	scaffold398	384210	GG	TT	TT	INTRON	101488508	Unknown function
SNP_72276_A_390284	NW_004515882.1	scaffold398	390284	AA	CC	CC	INTERGENIC		
SNP_72277_A_390475	NW_004515882.1	scaffold398	390475	TT	GG	GG	INTERGENIC		
SNP_72278_A_390482	NW_004515882.1	scaffold398	390482	GG	TT	TT	INTERGENIC		
SNP_72279_A_390506	NW_004515882.1	scaffold398	390506	TT	CC	CC	INTERGENIC		
SNP_72280_A_390530	NW_004515882.1	scaffold398	390530	TT	CC	CC	INTERGENIC		
SNP_72281_A_390552	NW_004515882.1	scaffold398	390552	GG	AA	AA	INTERGENIC		
SNP_72282_A_392083	NW_004515882.1	scaffold398	392083	TT	AA	AA	INTERGENIC		
SNP_72283_A_393223	NW_004515882.1	scaffold398	393223	CC	TT	TT	INTERGENIC		
SNP_72284_A_393241	NW_004515882.1	scaffold398	393241	CC	TT	TT	INTERGENIC		
SNP_72285_A_395623	NW_004515882.1	scaffold398	395623	AA	GG	GG	DRR	101488847	Unknown function
SNP_72286_A_401088	NW_004515882.1	scaffold398	401088	AA	GG	GG	URR	101488847	Unknown function
SNP_72287_A_403711	NW_004515882.1	scaffold398	403711	AA	GG	GG	INTERGENIC		
SNP_72288_A_404608	NW_004515882.1	scaffold398	404608	GG	AA	AA	INTERGENIC		
SNP_72289_A_404755	NW_004515882.1	scaffold398	404755	GG	AA	AA	INTERGENIC		
SNP_72290_A_405612	NW_004515882.1	scaffold398	405612	GG	TT	TT	INTERGENIC		
SNP_72291_A_407094	NW_004515882.1	scaffold398	407094	TT	GG	GG	INTERGENIC		
SNP_72292_A_407475	NW_004515882.1	scaffold398	407475	AA	GG	GG	INTERGENIC		
SNP_72293_A_409132	NW_004515882.1	scaffold398	409132	TT	CC	CC	INTERGENIC		
SNP_72294_A_409327	NW_004515882.1	scaffold398	409327	CC	TT	TT	INTERGENIC		
SNP_72295_A_413821	NW_004515882.1	scaffold398	413821	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72296_A_427993	NW_004515882.1	scaffold398	427993	AA	GG	GG	INTERGENIC		
SNP_72297_A_434484	NW_004515882.1	scaffold398	434484	TT	CC	CC	INTERGENIC		
SNP_72298_A_434904	NW_004515882.1	scaffold398	434904	GG	AA	AA	INTERGENIC		
SNP_72301_A_443445	NW_004515882.1	scaffold398	443445	AA	GG	GG	URR	101513771	uncharacterized LOC101513771
SNP_72302_A_451750	NW_004515882.1	scaffold398	451750	AA	GG	GG	INTERGENIC		
SNP_72303_A_452033	NW_004515882.1	scaffold398	452033	AA	GG	GG	INTERGENIC		
SNP_72304_A_453485	NW_004515882.1	scaffold398	453485	CC	TT	TT	INTERGENIC		
SNP_72305_A_454779	NW_004515882.1	scaffold398	454779	AA	GG	GG	INTERGENIC		
SNP_72307_A_455091	NW_004515882.1	scaffold398	455091	GG	CC	CC	INTERGENIC		
SNP_72308_A_455247	NW_004515882.1	scaffold398	455247	TT	CC	CC	INTERGENIC		
SNP_72309_A_457641	NW_004515882.1	scaffold398	457641	AA	GG	GG	INTERGENIC		
SNP_72310_A_457857	NW_004515882.1	scaffold398	457857	TT	CC	CC	INTERGENIC		
SNP_72311_A_457991	NW_004515882.1	scaffold398	457991	TT	AA	AA	INTERGENIC		
SNP_72312_A_459529	NW_004515882.1	scaffold398	459529	TT	AA	AA	INTERGENIC		
SNP_72314_A_463166	NW_004515882.1	scaffold398	463166	CC	TT	TT	INTERGENIC		
SNP_72315_A_465974	NW_004515882.1	scaffold398	465974	GG	AA	AA	INTERGENIC		
SNP_72317_A_466440	NW_004515882.1	scaffold398	466440	GG	CC	CC	INTERGENIC		
SNP_72318_A_469203	NW_004515882.1	scaffold398	469203	AA	GG	GG	INTERGENIC		
SNP_72319_A_469580	NW_004515882.1	scaffold398	469580	GG	AA	AA	INTERGENIC		
SNP_72320_A_477471	NW_004515882.1	scaffold398	477471	AA	GG	GG	INTERGENIC		
SNP_72322_A_482822	NW_004515882.1	scaffold398	482822	GG	AA	AA	INTERGENIC		
SNP_72324_A_490867	NW_004515882.1	scaffold398	490867	GG	AA	AA	URR	101514113	zinc finger protein 8

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72325_A_490990	NW_004515882.1	scaffold398	490990	TT	CC	CC	URR	101514113	zinc finger protein 8
SNP_72326_A_491406	NW_004515882.1	scaffold398	491406	GG	TT	TT	URR	101514113	zinc finger protein 8
SNP_72328_A_492578	NW_004515882.1	scaffold398	492578	AA	TT	TT	INTERGENIC		
SNP_72329_A_493661	NW_004515882.1	scaffold398	493661	CC	TT	TT	INTERGENIC		
SNP_72330_A_493672	NW_004515882.1	scaffold398	493672	TT	CC	CC	INTERGENIC		
SNP_72331_A_494273	NW_004515882.1	scaffold398	494273	CC	TT	TT	INTERGENIC		
SNP_72332_A_495376	NW_004515882.1	scaffold398	495376	GG	TT	TT	INTERGENIC		
SNP_72333_A_495377	NW_004515882.1	scaffold398	495377	AA	GG	GG	INTERGENIC		
SNP_72334_A_495463	NW_004515882.1	scaffold398	495463	GG	AA	AA	INTERGENIC		
SNP_72335_A_495474	NW_004515882.1	scaffold398	495474	TT	CC	CC	INTERGENIC		
SNP_72336_A_495671	NW_004515882.1	scaffold398	495671	CC	AA	AA	INTERGENIC		
SNP_72338_A_495796	NW_004515882.1	scaffold398	495796	CC	TT	TT	INTERGENIC		
SNP_72339_A_495798	NW_004515882.1	scaffold398	495798	CC	TT	TT	INTERGENIC		
SNP_72340_A_495894	NW_004515882.1	scaffold398	495894	TT	AA	AA	INTERGENIC		
SNP_72341_A_29476	NW_004515883.1	scaffold399	29476	GG	CC	CC	INTERGENIC		
SNP_72342_A_44351	NW_004515883.1	scaffold399	44351	AA	TT	TT	INTERGENIC		
SNP_72343_A_49518	NW_004515883.1	scaffold399	49518	TT	AA	AA	INTERGENIC		
SNP_72344_A_49542	NW_004515883.1	scaffold399	49542	AA	GG	GG	INTERGENIC		
SNP_72345_A_49914	NW_004515883.1	scaffold399	49914	GG	CC	CC	INTERGENIC		
SNP_72346_A_72236	NW_004515883.1	scaffold399	72236	TT	CC	CC	INTERGENIC		
SNP_72347_A_72398	NW_004515883.1	scaffold399	72398	AA	CC	CC	INTERGENIC		
SNP_72348_A_74228	NW_004515883.1	scaffold399	74228	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72349_A_74236	NW_004515883.1	scaffold399	74236	GG	TT	TT	INTERGENIC			
SNP_72350_A_74285	NW_004515883.1	scaffold399	74285	CC	AA	AA	INTERGENIC			
SNP_72351_A_74324	NW_004515883.1	scaffold399	74324	AA	GG	GG	INTERGENIC			
SNP_72352_A_74342	NW_004515883.1	scaffold399	74342	AA	GG	GG	INTERGENIC			
SNP_72353_A_81810	NW_004515883.1	scaffold399	81810	AA	GG	GG	INTERGENIC			
SNP_72354_A_82533	NW_004515883.1	scaffold399	82533	AA	GG	GG	INTERGENIC			
SNP_72355_A_82565	NW_004515883.1	scaffold399	82565	TT	AA	AA	INTERGENIC			
SNP_72356_A_92605	NW_004515883.1	scaffold399	92605	CC	TT	TT	INTERGENIC			
SNP_72357_A_111173	NW_004515883.1	scaffold399	111173	AA	GG	GG	INTERGENIC			
SNP_72358_A_504	NW_004515884.1	scaffold400	504	GG	AA	AA	INTERGENIC			
SNP_72359_A_2406	NW_004515884.1	scaffold400	2406	AA	TT	TT	INTERGENIC			
SNP_72360_A_17772	NW_004515884.1	scaffold400	17772	AA	GG	GG	INTERGENIC			
SNP_72361_A_41279	NW_004515884.1	scaffold400	41279	AA	TT	TT	INTERGENIC			
SNP_72362_A_41301	NW_004515884.1	scaffold400	41301	TT	GG	GG	INTERGENIC			
SNP_72363_A_41309	NW_004515884.1	scaffold400	41309	AA	GG	GG	INTERGENIC			
SNP_72364_A_41665	NW_004515884.1	scaffold400	41665	GG	AA	AA	INTERGENIC			
SNP_72365_A_41693	NW_004515884.1	scaffold400	41693	TT	CC	CC	INTERGENIC			
SNP_72366_A_41696	NW_004515884.1	scaffold400	41696	GG	AA	AA	INTERGENIC			
SNP_72367_A_41714	NW_004515884.1	scaffold400	41714	TT	CC	CC	INTERGENIC			
SNP_72368_A_41800	NW_004515884.1	scaffold400	41800	AA	CC	CC	INTERGENIC			
SNP_72369_A_41853	NW_004515884.1	scaffold400	41853	GG	AA	AA	INTERGENIC			
SNP_72370_A_41930	NW_004515884.1	scaffold400	41930	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72371_A_41938	NW_004515884.1	scaffold400	41938	TT	AA	AA	INTERGENIC			
SNP_72372_A_41948	NW_004515884.1	scaffold400	41948	GG	AA	AA	INTERGENIC			
SNP_72373_A_41994	NW_004515884.1	scaffold400	41994	TT	CC	CC	INTERGENIC			
SNP_72374_A_42027	NW_004515884.1	scaffold400	42027	GG	AA	AA	INTERGENIC			
SNP_72375_A_42075	NW_004515884.1	scaffold400	42075	CC	AA	AA	INTERGENIC			
SNP_72376_A_42090	NW_004515884.1	scaffold400	42090	AA	TT	TT	INTERGENIC			
SNP_72377_A_42099	NW_004515884.1	scaffold400	42099	GG	AA	AA	INTERGENIC			
SNP_72378_A_42101	NW_004515884.1	scaffold400	42101	CC	TT	TT	INTERGENIC			
SNP_72379_A_42115	NW_004515884.1	scaffold400	42115	TT	CC	CC	INTERGENIC			
SNP_72380_A_42184	NW_004515884.1	scaffold400	42184	AA	TT	TT	INTERGENIC			
SNP_72381_A_42193	NW_004515884.1	scaffold400	42193	TT	AA	AA	INTERGENIC			
SNP_72382_A_42194	NW_004515884.1	scaffold400	42194	AA	TT	TT	INTERGENIC			
SNP_72383_A_42196	NW_004515884.1	scaffold400	42196	GG	CC	CC	INTERGENIC			
SNP_72384_A_42255	NW_004515884.1	scaffold400	42255	GG	TT	TT	INTERGENIC			
SNP_72385_A_42291	NW_004515884.1	scaffold400	42291	TT	CC	CC	INTERGENIC			
SNP_72386_A_42373	NW_004515884.1	scaffold400	42373	TT	GG	GG	INTERGENIC			
SNP_72387_A_42433	NW_004515884.1	scaffold400	42433	TT	CC	CC	INTERGENIC			
SNP_72388_A_42441	NW_004515884.1	scaffold400	42441	AA	TT	TT	INTERGENIC			
SNP_72389_A_42503	NW_004515884.1	scaffold400	42503	TT	CC	CC	INTERGENIC			
SNP_72390_A_42544	NW_004515884.1	scaffold400	42544	TT	AA	AA	INTERGENIC			
SNP_72391_A_42806	NW_004515884.1	scaffold400	42806	CC	TT	TT	INTERGENIC			
SNP_72392_A_42810	NW_004515884.1	scaffold400	42810	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72393_A_42818	NW_004515884.1	scaffold400	42818	TT	CC	CC	INTERGENIC			
SNP_72394_A_43070	NW_004515884.1	scaffold400	43070	CC	GG	GG	INTERGENIC			
SNP_72395_A_43194	NW_004515884.1	scaffold400	43194	CC	AA	AA	INTERGENIC			
SNP_72396_A_43238	NW_004515884.1	scaffold400	43238	CC	AA	AA	INTERGENIC			
SNP_72397_A_43463	NW_004515884.1	scaffold400	43463	TT	AA	AA	INTERGENIC			
SNP_72398_A_43620	NW_004515884.1	scaffold400	43620	CC	TT	TT	INTERGENIC			
SNP_72399_A_43649	NW_004515884.1	scaffold400	43649	CC	GG	GG	INTERGENIC			
SNP_72401_A_62677	NW_004515884.1	scaffold400	62677	AA	GG	GG	INTERGENIC			
SNP_72402_A_66610	NW_004515884.1	scaffold400	66610	AA	GG	GG	INTERGENIC			
SNP_72403_A_69523	NW_004515884.1	scaffold400	69523	GG	AA	AA	INTERGENIC			
SNP_72404_A_33879	NW_004515885.1	scaffold401	33879	AA	GG	GG	INTERGENIC			
SNP_72405_A_50634	NW_004515885.1	scaffold401	50634	AA	GG	GG	INTERGENIC			
SNP_72406_A_100442	NW_004515885.1	scaffold401	100442	CC	TT	TT	URR	101492407	protein FAR-RED IMPAIRED RESPONSE 1-like	
SNP_72407_A_102164	NW_004515885.1	scaffold401	102164	TT	CC	CC	INTERGENIC			
SNP_72408_A_102483	NW_004515885.1	scaffold401	102483	CC	TT	TT	INTERGENIC			
SNP_72409_A_156435	NW_004515885.1	scaffold401	156435	AA	TT	TT	STOP_LOST	id200497	Unknown function	
SNP_72410_A_166624	NW_004515885.1	scaffold401	166624	TT	CC	CC	INTERGENIC			
SNP_72411_A_166656	NW_004515885.1	scaffold401	166656	TT	CC	CC	INTERGENIC			
SNP_72412_A_166924	NW_004515885.1	scaffold401	166924	TT	AA	AA	INTERGENIC			
SNP_72413_A_166941	NW_004515885.1	scaffold401	166941	AA	GG	GG	INTERGENIC			
SNP_72414_A_167002	NW_004515885.1	scaffold401	167002	TT	CC	CC	INTERGENIC			
SNP_72415_A_167073	NW_004515885.1	scaffold401	167073	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72416_A_167086	NW_004515885.1	scaffold401	167086	TT	GG	GG	INTERGENIC			
SNP_72417_A_172214	NW_004515885.1	scaffold401	172214	AA	TT	TT	INTERGENIC			
SNP_72418_A_172224	NW_004515885.1	scaffold401	172224	CC	TT	TT	INTERGENIC			
SNP_72419_A_172225	NW_004515885.1	scaffold401	172225	AA	GG	GG	INTERGENIC			
SNP_72420_A_183051	NW_004515885.1	scaffold401	183051	GG	AA	AA	INTERGENIC			
SNP_72421_A_2667	NW_004515886.1	scaffold404	2667	AA	GG	GG	INTERGENIC			
SNP_72422_A_2753	NW_004515886.1	scaffold404	2753	AA	CC	CC	INTERGENIC			
SNP_72423_A_2830	NW_004515886.1	scaffold404	2830	AA	GG	GG	INTERGENIC			
SNP_72424_A_2925	NW_004515886.1	scaffold404	2925	TT	CC	CC	INTERGENIC			
SNP_72425_A_5356	NW_004515886.1	scaffold404	5356	AA	CC	CC	INTERGENIC			
SNP_72426_A_5376	NW_004515886.1	scaffold404	5376	TT	CC	CC	INTERGENIC			
SNP_72427_A_5941	NW_004515886.1	scaffold404	5941	TT	GG	GG	INTERGENIC			
SNP_72428_A_6252	NW_004515886.1	scaffold404	6252	GG	TT	TT	INTERGENIC			
SNP_72429_A_6493	NW_004515886.1	scaffold404	6493	GG	CC	CC	INTERGENIC			
SNP_72431_A_13110	NW_004515886.1	scaffold404	13110	AA	GG	GG	INTERGENIC			
SNP_72432_A_15281	NW_004515886.1	scaffold404	15281	TT	AA	AA	INTERGENIC			
SNP_72433_A_23970	NW_004515886.1	scaffold404	23970	GG	AA	AA	INTERGENIC			
SNP_72434_A_24183	NW_004515886.1	scaffold404	24183	AA	CC	CC	INTERGENIC			
SNP_72435_A_25409	NW_004515886.1	scaffold404	25409	AA	GG	GG	INTERGENIC			
SNP_72436_A_25500	NW_004515886.1	scaffold404	25500	CC	GG	GG	INTERGENIC			
SNP_72437_A_25508	NW_004515886.1	scaffold404	25508	GG	AA	AA	INTERGENIC			
SNP_72438_A_25612	NW_004515886.1	scaffold404	25612	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72439_A_25709	NW_004515886.1	scaffold404	25709	AA	GG	GG	INTERGENIC			
SNP_72440_A_25717	NW_004515886.1	scaffold404	25717	TT	CC	CC	INTERGENIC			
SNP_72441_A_25800	NW_004515886.1	scaffold404	25800	AA	CC	CC	INTERGENIC			
SNP_72442_A_25840	NW_004515886.1	scaffold404	25840	TT	AA	AA	INTERGENIC			
SNP_72443_A_25867	NW_004515886.1	scaffold404	25867	AA	GG	GG	INTERGENIC			
SNP_72444_A_25933	NW_004515886.1	scaffold404	25933	AA	TT	TT	INTERGENIC			
SNP_72445_A_25943	NW_004515886.1	scaffold404	25943	AA	GG	GG	INTERGENIC			
SNP_72446_A_25960	NW_004515886.1	scaffold404	25960	GG	AA	AA	INTERGENIC			
SNP_72447_A_25978	NW_004515886.1	scaffold404	25978	TT	CC	CC	INTERGENIC			
SNP_72448_A_37049	NW_004515886.1	scaffold404	37049	TT	CC	CC	INTERGENIC			
SNP_72449_A_38229	NW_004515886.1	scaffold404	38229	CC	TT	TT	INTERGENIC			
SNP_72450_A_40634	NW_004515886.1	scaffold404	40634	GG	AA	AA	INTERGENIC			
SNP_72451_A_43788	NW_004515886.1	scaffold404	43788	CC	TT	TT	INTERGENIC			
SNP_72452_A_43792	NW_004515886.1	scaffold404	43792	GG	AA	AA	INTERGENIC			
SNP_72453_A_44294	NW_004515886.1	scaffold404	44294	TT	CC	CC	INTERGENIC			
SNP_72454_A_44791	NW_004515886.1	scaffold404	44791	CC	TT	TT	INTERGENIC			
SNP_72455_A_44825	NW_004515886.1	scaffold404	44825	AA	TT	TT	INTERGENIC			
SNP_72456_A_44838	NW_004515886.1	scaffold404	44838	GG	TT	TT	INTERGENIC			
SNP_72457_A_44839	NW_004515886.1	scaffold404	44839	TT	GG	CC	INTERGENIC			
SNP_72458_A_44840	NW_004515886.1	scaffold404	44840	GG	TT	TT	INTERGENIC			
SNP_72459_A_44854	NW_004515886.1	scaffold404	44854	AA	TT	TT	INTERGENIC			
SNP_72460_A_44937	NW_004515886.1	scaffold404	44937	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72461_A_45390	NW_004515886.1	scaffold404	45390	AA	GG	GG	INTERGENIC			
SNP_72462_A_46742	NW_004515886.1	scaffold404	46742	GG	AA	AA	INTERGENIC			
SNP_72463_A_49990	NW_004515886.1	scaffold404	49990	AA	TT	TT	INTERGENIC			
SNP_72464_A_50057	NW_004515886.1	scaffold404	50057	TT	AA	AA	INTERGENIC			
SNP_72465_A_61652	NW_004515886.1	scaffold404	61652	CC	GG	GG	INTERGENIC			
SNP_72466_A_61700	NW_004515886.1	scaffold404	61700	AA	TT	TT	INTERGENIC			
SNP_72467_A_61726	NW_004515886.1	scaffold404	61726	AA	CC	CC	INTERGENIC			
SNP_72468_A_62224	NW_004515886.1	scaffold404	62224	AA	GG	GG	INTERGENIC			
SNP_72469_A_62229	NW_004515886.1	scaffold404	62229	TT	CC	CC	INTERGENIC			
SNP_72470_A_62257	NW_004515886.1	scaffold404	62257	CC	TT	TT	INTERGENIC			
SNP_72471_A_62267	NW_004515886.1	scaffold404	62267	CC	TT	TT	INTERGENIC			
SNP_72472_A_62276	NW_004515886.1	scaffold404	62276	GG	AA	AA	INTERGENIC			
SNP_72473_A_63600	NW_004515886.1	scaffold404	63600	CC	TT	TT	INTERGENIC			
SNP_72474_A_63650	NW_004515886.1	scaffold404	63650	AA	CC	CC	INTERGENIC			
SNP_72475_A_63960	NW_004515886.1	scaffold404	63960	AA	GG	GG	INTERGENIC			
SNP_72476_A_64017	NW_004515886.1	scaffold404	64017	TT	AA	AA	INTERGENIC			
SNP_72477_A_64209	NW_004515886.1	scaffold404	64209	AA	TT	TT	INTERGENIC			
SNP_72478_A_64260	NW_004515886.1	scaffold404	64260	AA	CC	CC	INTERGENIC			
SNP_72479_A_64326	NW_004515886.1	scaffold404	64326	AA	TT	TT	INTERGENIC			
SNP_72480_A_64640	NW_004515886.1	scaffold404	64640	AA	TT	TT	INTERGENIC			
SNP_72481_A_64645	NW_004515886.1	scaffold404	64645	AA	GG	GG	INTERGENIC			
SNP_72482_A_64674	NW_004515886.1	scaffold404	64674	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72483_A_64707	NW_004515886.1	scaffold404	64707	TT	AA	AA	INTERGENIC		
SNP_72484_A_82120	NW_004515886.1	scaffold404	82120	TT	AA	AA	INTERGENIC		
SNP_72485_A_96846	NW_004515886.1	scaffold404	96846	TT	GG	GG	INTERGENIC		
SNP_72486_A_143549	NW_004515886.1	scaffold404	143549	TT	GG	GG	INTERGENIC		
SNP_72487_A_143559	NW_004515886.1	scaffold404	143559	CC	TT	TT	INTERGENIC		
SNP_72488_A_156517	NW_004515886.1	scaffold404	156517	GG	TT	TT	INTERGENIC		
SNP_72489_A_161379	NW_004515886.1	scaffold404	161379	AA	GG	GG	INTERGENIC		
SNP_72491_A_161868	NW_004515886.1	scaffold404	161868	AA	GG	GG	INTERGENIC		
SNP_72492_A_164166	NW_004515886.1	scaffold404	164166	AA	TT	TT	INTERGENIC		
SNP_72493_A_180167	NW_004515886.1	scaffold404	180167	GG	TT	TT	INTERGENIC		
SNP_72494_A_180203	NW_004515886.1	scaffold404	180203	GG	AA	AA	INTERGENIC		
SNP_72496_A_180259	NW_004515886.1	scaffold404	180259	GG	TT	TT	DRR	101496841	Unknown function
SNP_72497_A_180599	NW_004515886.1	scaffold404	180599	GG	TT	TT	DRR	101496841	Unknown function
SNP_72498_A_181169	NW_004515886.1	scaffold404	181169	TT	CC	CC	DRR	101496841	Unknown function
SNP_72499_A_183911	NW_004515886.1	scaffold404	183911	GG	CC	CC	NON_SYNONYMOUS_CODING	101496841	Unknown function
SNP_72500_A_184064	NW_004515886.1	scaffold404	184064	GG	CC	CC	NON_SYNONYMOUS_CODING	101496841	Unknown function
SNP_72501_A_184116	NW_004515886.1	scaffold404	184116	TT	CC	CC	URR	101496841	Unknown function
SNP_72502_A_184126	NW_004515886.1	scaffold404	184126	AA	GG	GG	URR	101496841	Unknown function
SNP_72503_A_184196	NW_004515886.1	scaffold404	184196	AA	GG	GG	URR	101496841	Unknown function
SNP_72504_A_184308	NW_004515886.1	scaffold404	184308	TT	GG	GG	URR	101496841	Unknown function
SNP_72505_A_184368	NW_004515886.1	scaffold404	184368	TT	CC	CC	URR	101496841	Unknown function
SNP_72506_A_184373	NW_004515886.1	scaffold404	184373	CC	TT	TT	URR	101496841	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72507_A_184379	NW_004515886.1	scaffold404	184379	GG	AA	AA	URR	101496841	Unknown function
SNP_72508_A_184393	NW_004515886.1	scaffold404	184393	TT	AA	AA	URR	101496841	Unknown function
SNP_72509_A_184394	NW_004515886.1	scaffold404	184394	CC	AA	AA	URR	101496841	Unknown function
SNP_72510_A_184423	NW_004515886.1	scaffold404	184423	TT	CC	CC	URR	101496841	Unknown function
SNP_72511_A_185699	NW_004515886.1	scaffold404	185699	AA	GG	GG	URR	101496841	Unknown function
SNP_72512_A_185706	NW_004515886.1	scaffold404	185706	GG	CC	CC	URR	101496841	Unknown function
SNP_72513_A_185765	NW_004515886.1	scaffold404	185765	AA	GG	GG	URR	101496841	Unknown function
SNP_72514_A_185766	NW_004515886.1	scaffold404	185766	TT	CC	CC	URR	101496841	Unknown function
SNP_72515_A_185783	NW_004515886.1	scaffold404	185783	GG	TT	TT	URR	101496841	Unknown function
SNP_72516_A_185794	NW_004515886.1	scaffold404	185794	CC	TT	TT	URR	101496841	Unknown function
SNP_72517_A_185976	NW_004515886.1	scaffold404	185976	CC	AA	AA	URR	101496841	Unknown function
SNP_72518_A_186000	NW_004515886.1	scaffold404	186000	GG	TT	TT	URR	101496841	Unknown function
SNP_72519_A_186001	NW_004515886.1	scaffold404	186001	TT	GG	GG	URR	101496841	Unknown function
SNP_72521_A_236820	NW_004515886.1	scaffold404	236820	CC	TT	TT	INTERGENIC		
SNP_72523_A_247425	NW_004515886.1	scaffold404	247425	TT	GG	GG	INTRON	101494037	endonuclease 2-like
SNP_72524_A_247426	NW_004515886.1	scaffold404	247426	TT	GG	GG	INTRON	101494037	endonuclease 2-like
SNP_72525_A_263716	NW_004515886.1	scaffold404	263716	TT	CC	CC	INTERGENIC		
SNP_72526_A_264057	NW_004515886.1	scaffold404	264057	CC	GG	GG	INTERGENIC		
SNP_72527_A_264072	NW_004515886.1	scaffold404	264072	TT	CC	CC	INTERGENIC		
SNP_72528_A_304587	NW_004515886.1	scaffold404	304587	CC	TT	TT	INTERGENIC		
SNP_72529_A_304611	NW_004515886.1	scaffold404	304611	CC	TT	TT	INTERGENIC		
SNP_72530_A_356780	NW_004515886.1	scaffold404	356780	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72531_A_357184	NW_004515886.1	scaffold404	357184	CC	TT	TT	INTERGENIC			
SNP_72532_A_386735	NW_004515886.1	scaffold404	386735	GG	AA	AA	INTERGENIC			
SNP_72534_A_64	NW_004515887.1	scaffold408	64	GG	CC	CC	INTERGENIC			
SNP_72535_A_988	NW_004515887.1	scaffold408	988	AA	TT	TT	INTERGENIC			
SNP_72536_A_1001	NW_004515887.1	scaffold408	1001	TT	CC	CC	INTERGENIC			
SNP_72537_A_1003	NW_004515887.1	scaffold408	1003	CC	AA	AA	INTERGENIC			
SNP_72538_A_1195	NW_004515887.1	scaffold408	1195	TT	AA	AA	INTERGENIC			
SNP_72539_A_1196	NW_004515887.1	scaffold408	1196	GG	TT	TT	INTERGENIC			
SNP_72540_A_1446	NW_004515887.1	scaffold408	1446	TT	CC	CC	INTERGENIC			
SNP_72541_A_1760	NW_004515887.1	scaffold408	1760	CC	TT	TT	INTERGENIC			
SNP_72542_A_2527	NW_004515887.1	scaffold408	2527	GG	AA	AA	INTERGENIC			
SNP_72543_A_2573	NW_004515887.1	scaffold408	2573	AA	CC	CC	INTERGENIC			
SNP_72544_A_2803	NW_004515887.1	scaffold408	2803	GG	TT	TT	INTERGENIC			
SNP_72545_A_3043	NW_004515887.1	scaffold408	3043	GG	AA	AA	INTERGENIC			
SNP_72546_A_3084	NW_004515887.1	scaffold408	3084	AA	GG	GG	INTERGENIC			
SNP_72548_A_3542	NW_004515887.1	scaffold408	3542	TT	CC	CC	INTERGENIC			
SNP_72550_A_12211	NW_004515887.1	scaffold408	12211	CC	GG	GG	INTERGENIC			
SNP_72551_A_12234	NW_004515887.1	scaffold408	12234	TT	GG	GG	INTERGENIC			
SNP_72552_A_12448	NW_004515887.1	scaffold408	12448	TT	AA	AA	INTERGENIC			
SNP_72553_A_12475	NW_004515887.1	scaffold408	12475	GG	AA	AA	INTERGENIC			
SNP_72554_A_12613	NW_004515887.1	scaffold408	12613	TT	AA	AA	INTERGENIC			
SNP_72555_A_20453	NW_004515887.1	scaffold408	20453	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72556_A_20483	NW_004515887.1	scaffold408	20483	GG	CC	CC	INTERGENIC			
SNP_72557_A_20490	NW_004515887.1	scaffold408	20490	CC	TT	TT	INTERGENIC			
SNP_72558_A_20533	NW_004515887.1	scaffold408	20533	AA	TT	TT	INTERGENIC			
SNP_72559_A_20548	NW_004515887.1	scaffold408	20548	AA	GG	GG	INTERGENIC			
SNP_72560_A_20582	NW_004515887.1	scaffold408	20582	TT	GG	GG	INTERGENIC			
SNP_72561_A_20590	NW_004515887.1	scaffold408	20590	AA	TT	TT	INTERGENIC			
SNP_72562_A_20597	NW_004515887.1	scaffold408	20597	TT	AA	AA	INTERGENIC			
SNP_72563_A_20787	NW_004515887.1	scaffold408	20787	CC	TT	TT	INTERGENIC			
SNP_72564_A_20880	NW_004515887.1	scaffold408	20880	CC	TT	TT	INTERGENIC			
SNP_72565_A_20940	NW_004515887.1	scaffold408	20940	AA	GG	GG	INTERGENIC			
SNP_72566_A_21116	NW_004515887.1	scaffold408	21116	TT	AA	AA	INTERGENIC			
SNP_72567_A_21200	NW_004515887.1	scaffold408	21200	AA	GG	GG	INTERGENIC			
SNP_72568_A_21203	NW_004515887.1	scaffold408	21203	AA	TT	TT	INTERGENIC			
SNP_72569_A_21239	NW_004515887.1	scaffold408	21239	TT	CC	CC	INTERGENIC			
SNP_72570_A_21302	NW_004515887.1	scaffold408	21302	TT	AA	AA	INTERGENIC			
SNP_72571_A_21323	NW_004515887.1	scaffold408	21323	AA	GG	GG	INTERGENIC			
SNP_72572_A_31339	NW_004515887.1	scaffold408	31339	GG	AA	AA	INTERGENIC			
SNP_72573_A_51031	NW_004515887.1	scaffold408	51031	AA	GG	GG	INTERGENIC			
SNP_72574_A_84403	NW_004515887.1	scaffold408	84403	TT	GG	GG	INTERGENIC			
SNP_72575_A_84413	NW_004515887.1	scaffold408	84413	AA	CC	CC	INTERGENIC			
SNP_72576_A_84481	NW_004515887.1	scaffold408	84481	AA	GG	GG	INTERGENIC			
SNP_72577_A_84702	NW_004515887.1	scaffold408	84702	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72578_A_84715	NW_004515887.1	scaffold408	84715	TT	CC	CC	INTERGENIC		
SNP_72579_A_84864	NW_004515887.1	scaffold408	84864	TT	GG	GG	INTERGENIC		
SNP_72580_A_111577	NW_004515887.1	scaffold408	111577	GG	TT	TT	INTERGENIC		
SNP_72581_A_130476	NW_004515887.1	scaffold408	130476	TT	CC	CC	INTRON	101498148	cucumisin-like
SNP_72582_A_130914	NW_004515887.1	scaffold408	130914	AA	GG	GG	INTRON	101498148	cucumisin-like
SNP_72583_A_130929	NW_004515887.1	scaffold408	130929	TT	AA	AA	INTRON	101498148	cucumisin-like
SNP_72586_A_131049	NW_004515887.1	scaffold408	131049	GG	AA	AA	INTRON	101498148	cucumisin-like
SNP_72587_A_131124	NW_004515887.1	scaffold408	131124	GG	AA	AA	INTRON	101498148	cucumisin-like
SNP_72588_A_131127	NW_004515887.1	scaffold408	131127	AA	TT	TT	INTRON	101498148	cucumisin-like
SNP_72589_A_131161	NW_004515887.1	scaffold408	131161	AA	TT	TT	INTRON	101498148	cucumisin-like
SNP_72590_A_131180	NW_004515887.1	scaffold408	131180	AA	GG	GG	INTRON	101498148	cucumisin-like
SNP_72591_A_131272	NW_004515887.1	scaffold408	131272	TT	AA	AA	INTRON	101498148	cucumisin-like
SNP_72592_A_2483	NW_004515888.1	scaffold409	2483	AA	GG	GG	INTERGENIC		
SNP_72593_A_2604	NW_004515888.1	scaffold409	2604	CC	TT	TT	INTERGENIC		
SNP_72594_A_2630	NW_004515888.1	scaffold409	2630	TT	CC	CC	INTERGENIC		
SNP_72595_A_2631	NW_004515888.1	scaffold409	2631	CC	AA	AA	INTERGENIC		
SNP_72596_A_2673	NW_004515888.1	scaffold409	2673	GG	AA	AA	INTERGENIC		
SNP_72597_A_36882	NW_004515888.1	scaffold409	36882	TT	AA	AA	INTERGENIC		
SNP_72598_A_17369	NW_004515889.1	scaffold411	17369	AA	GG	GG	INTERGENIC		
SNP_72599_A_41671	NW_004515889.1	scaffold411	41671	CC	TT	TT	INTERGENIC		
SNP_72600_A_41678	NW_004515889.1	scaffold411	41678	CC	TT	TT	INTERGENIC		
SNP_72601_A_41679	NW_004515889.1	scaffold411	41679	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72602_A_41686	NW_004515889.1	scaffold411	41686	TT	CC	CC	INTERGENIC			
SNP_72603_A_41687	NW_004515889.1	scaffold411	41687	AA	GG	GG	INTERGENIC			
SNP_72604_A_41694	NW_004515889.1	scaffold411	41694	AA	GG	GG	INTERGENIC			
SNP_72605_A_41703	NW_004515889.1	scaffold411	41703	GG	AA	AA	INTERGENIC			
SNP_72606_A_41738	NW_004515889.1	scaffold411	41738	AA	GG	GG	INTERGENIC			
SNP_72607_A_41833	NW_004515889.1	scaffold411	41833	GG	AA	AA	INTERGENIC			
SNP_72608_A_42664	NW_004515889.1	scaffold411	42664	GG	AA	AA	INTERGENIC			
SNP_72609_A_42714	NW_004515889.1	scaffold411	42714	TT	CC	CC	INTERGENIC			
SNP_72610_A_42729	NW_004515889.1	scaffold411	42729	AA	GG	GG	INTERGENIC			
SNP_72612_A_42790	NW_004515889.1	scaffold411	42790	TT	AA	AA	INTERGENIC			
SNP_72613_A_43051	NW_004515889.1	scaffold411	43051	AA	GG	GG	INTERGENIC			
SNP_72614_A_65702	NW_004515889.1	scaffold411	65702	AA	TT	TT	INTERGENIC			
SNP_72615_A_73804	NW_004515889.1	scaffold411	73804	CC	TT	TT	INTERGENIC			
SNP_72616_A_74036	NW_004515889.1	scaffold411	74036	AA	TT	TT	INTERGENIC			
SNP_72617_A_74044	NW_004515889.1	scaffold411	74044	GG	AA	AA	INTERGENIC			
SNP_72618_A_74091	NW_004515889.1	scaffold411	74091	GG	AA	AA	INTERGENIC			
SNP_72619_A_81749	NW_004515889.1	scaffold411	81749	GG	AA	AA	INTERGENIC			
SNP_72620_A_98512	NW_004515889.1	scaffold411	98512	AA	GG	GG	INTERGENIC			
SNP_72621_A_120316	NW_004515889.1	scaffold411	120316	AA	TT	TT	INTERGENIC			
SNP_72622_A_124098	NW_004515889.1	scaffold411	124098	TT	AA	AA	INTERGENIC			
SNP_72623_A_124422	NW_004515889.1	scaffold411	124422	CC	AA	AA	INTERGENIC			
SNP_72625_A_151050	NW_004515889.1	scaffold411	151050	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72626_A_151814	NW_004515889.1	scaffold411	151814	AA	GG	GG	INTERGENIC		
SNP_72627_A_162147	NW_004515889.1	scaffold411	162147	AA	GG	GG	URR	101500086	Unknown function
SNP_72628_A_162162	NW_004515889.1	scaffold411	162162	AA	CC	CC	URR	101500086	Unknown function
SNP_72630_A_196972	NW_004515889.1	scaffold411	196972	AA	CC	CC	INTERGENIC		
SNP_72631_A_230423	NW_004515889.1	scaffold411	230423	AA	GG	GG	INTERGENIC		
SNP_72632_A_231481	NW_004515889.1	scaffold411	231481	TT	CC	CC	INTERGENIC		
SNP_72633_A_231677	NW_004515889.1	scaffold411	231677	AA	GG	GG	INTERGENIC		
SNP_72634_A_231680	NW_004515889.1	scaffold411	231680	AA	GG	GG	INTERGENIC		
SNP_72635_A_231897	NW_004515889.1	scaffold411	231897	AA	GG	GG	INTERGENIC		
SNP_72636_A_231952	NW_004515889.1	scaffold411	231952	TT	CC	CC	INTERGENIC		
SNP_72637_A_231972	NW_004515889.1	scaffold411	231972	TT	CC	CC	INTERGENIC		
SNP_72639_A_252830	NW_004515889.1	scaffold411	252830	AA	GG	GG	NON_SYNONYMOUS_CODING	101500724	sugar transporter ERD6-like
SNP_72640_A_259232	NW_004515889.1	scaffold411	259232	AA	GG	GG	INTRON	101500724	sugar transporter ERD6-like
SNP_72641_A_298120	NW_004515889.1	scaffold411	298120	GG	CC	CC	INTERGENIC		
SNP_72642_A_298443	NW_004515889.1	scaffold411	298443	GG	AA	AA	INTERGENIC		
SNP_72644_A_298529	NW_004515889.1	scaffold411	298529	TT	CC	CC	INTERGENIC		
SNP_72645_A_298615	NW_004515889.1	scaffold411	298615	CC	GG	GG	INTERGENIC		
SNP_72646_A_308381	NW_004515889.1	scaffold411	308381	AA	GG	GG	INTERGENIC		
SNP_72647_A_308988	NW_004515889.1	scaffold411	308988	TT	CC	CC	INTERGENIC		
SNP_72648_A_323140	NW_004515889.1	scaffold411	323140	TT	GG	GG	URR	101501353	Unknown function
SNP_72649_A_334311	NW_004515889.1	scaffold411	334311	TT	CC	CC	URR	101501674	uncharacterized LOC101501674
SNP_72651_A_334524	NW_004515889.1	scaffold411	334524	TT	CC	CC	URR	101501674	uncharacterized LOC101501674

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72652_A_335376	NW_004515889.1	scaffold411	335376	TT	AA	AA	URR	101501674	uncharacterized LOC101501674
SNP_72653_A_336425	NW_004515889.1	scaffold411	336425	CC	AA	AA	INTERGENIC		
SNP_72656_A_343453	NW_004515889.1	scaffold411	343453	AA	GG	GG	INTERGENIC		
SNP_72658_A_347539	NW_004515889.1	scaffold411	347539	GG	TT	TT	INTERGENIC		
SNP_72659_A_347540	NW_004515889.1	scaffold411	347540	TT	AA	AA	INTERGENIC		
SNP_72660_A_348519	NW_004515889.1	scaffold411	348519	CC	AA	AA	INTERGENIC		
SNP_72661_A_348524	NW_004515889.1	scaffold411	348524	AA	GG	GG	INTERGENIC		
SNP_72662_A_369161	NW_004515889.1	scaffold411	369161	GG	AA	AA	INTERGENIC		
SNP_72663_A_369200	NW_004515889.1	scaffold411	369200	GG	AA	AA	INTERGENIC		
SNP_72664_A_369239	NW_004515889.1	scaffold411	369239	GG	AA	AA	INTERGENIC		
SNP_72665_A_369366	NW_004515889.1	scaffold411	369366	AA	GG	GG	INTERGENIC		
SNP_72666_A_375324	NW_004515889.1	scaffold411	375324	AA	GG	GG	INTERGENIC		
SNP_72667_A_377884	NW_004515889.1	scaffold411	377884	TT	CC	CC	INTERGENIC		
SNP_72668_A_377942	NW_004515889.1	scaffold411	377942	TT	CC	CC	INTERGENIC		
SNP_72669_A_403103	NW_004515889.1	scaffold411	403103	TT	CC	CC	INTERGENIC		
SNP_72671_A_436057	NW_004515889.1	scaffold411	436057	TT	CC	CC	INTERGENIC		
SNP_72672_A_436537	NW_004515889.1	scaffold411	436537	CC	GG	GG	INTERGENIC		
SNP_72673_A_6025	NW_004515890.1	scaffold413	6025	CC	AA	AA	INTERGENIC		
SNP_72674_A_6122	NW_004515890.1	scaffold413	6122	AA	CC	CC	INTERGENIC		
SNP_72675_A_6185	NW_004515890.1	scaffold413	6185	TT	GG	GG	INTERGENIC		
SNP_72676_A_6474	NW_004515890.1	scaffold413	6474	GG	TT	TT	INTERGENIC		
SNP_72677_A_6509	NW_004515890.1	scaffold413	6509	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72678_A_7185	NW_004515890.1	scaffold413	7185	GG	CC	CC	INTERGENIC			
SNP_72679_A_7202	NW_004515890.1	scaffold413	7202	AA	TT	TT	INTERGENIC			
SNP_72680_A_7228	NW_004515890.1	scaffold413	7228	AA	GG	GG	INTERGENIC			
SNP_72681_A_7235	NW_004515890.1	scaffold413	7235	AA	GG	GG	INTERGENIC			
SNP_72682_A_7362	NW_004515890.1	scaffold413	7362	CC	GG	GG	INTERGENIC			
SNP_72683_A_7377	NW_004515890.1	scaffold413	7377	TT	CC	CC	INTERGENIC			
SNP_72684_A_7454	NW_004515890.1	scaffold413	7454	GG	AA	AA	INTERGENIC			
SNP_72685_A_7482	NW_004515890.1	scaffold413	7482	TT	CC	CC	INTERGENIC			
SNP_72686_A_7721	NW_004515890.1	scaffold413	7721	TT	CC	CC	INTERGENIC			
SNP_72687_A_7908	NW_004515890.1	scaffold413	7908	AA	TT	TT	INTERGENIC			
SNP_72688_A_8005	NW_004515890.1	scaffold413	8005	CC	TT	TT	INTERGENIC			
SNP_72689_A_8086	NW_004515890.1	scaffold413	8086	AA	GG	GG	INTERGENIC			
SNP_72690_A_13108	NW_004515890.1	scaffold413	13108	CC	GG	GG	INTERGENIC			
SNP_72691_A_5291	NW_004515891.1	scaffold414	5291	GG	AA	AA	INTERGENIC			
SNP_72692_A_5334	NW_004515891.1	scaffold414	5334	AA	TT	TT	INTERGENIC			
SNP_72693_A_5363	NW_004515891.1	scaffold414	5363	GG	TT	TT	INTERGENIC			
SNP_72694_A_5660	NW_004515891.1	scaffold414	5660	AA	CC	CC	INTERGENIC			
SNP_72695_A_6790	NW_004515891.1	scaffold414	6790	TT	AA	AA	INTERGENIC			
SNP_72696_A_6795	NW_004515891.1	scaffold414	6795	TT	AA	AA	INTERGENIC			
SNP_72697_A_6827	NW_004515891.1	scaffold414	6827	AA	GG	GG	INTERGENIC			
SNP_72698_A_7170	NW_004515891.1	scaffold414	7170	GG	CC	CC	INTERGENIC			
SNP_72699_A_8072	NW_004515891.1	scaffold414	8072	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72700_A_8453	NW_004515891.1	scaffold414	8453	CC	AA	AA	INTERGENIC			
SNP_72703_A_22233	NW_004515891.1	scaffold414	22233	TT	CC	CC	INTERGENIC			
SNP_72704_A_52116	NW_004515891.1	scaffold414	52116	CC	TT	TT	INTERGENIC			
SNP_72705_A_52117	NW_004515891.1	scaffold414	52117	TT	GG	GG	INTERGENIC			
SNP_72706_A_52226	NW_004515891.1	scaffold414	52226	GG	AA	AA	INTERGENIC			
SNP_72707_A_53392	NW_004515891.1	scaffold414	53392	TT	CC	CC	INTERGENIC			
SNP_72708_A_53434	NW_004515891.1	scaffold414	53434	TT	CC	CC	INTERGENIC			
SNP_72709_A_53441	NW_004515891.1	scaffold414	53441	AA	TT	TT	INTERGENIC			
SNP_72710_A_53866	NW_004515891.1	scaffold414	53866	GG	AA	AA	INTERGENIC			
SNP_72711_A_53887	NW_004515891.1	scaffold414	53887	TT	AA	AA	INTERGENIC			
SNP_72712_A_54136	NW_004515891.1	scaffold414	54136	TT	AA	AA	INTERGENIC			
SNP_72713_A_631	NW_004515892.1	scaffold415	631	GG	AA	AA	INTERGENIC			
SNP_72714_A_993	NW_004515892.1	scaffold415	993	TT	CC	CC	INTERGENIC			
SNP_72715_A_1041	NW_004515892.1	scaffold415	1041	GG	AA	AA	INTERGENIC			
SNP_72716_A_1048	NW_004515892.1	scaffold415	1048	TT	AA	AA	INTERGENIC			
SNP_72717_A_1073	NW_004515892.1	scaffold415	1073	GG	AA	AA	INTERGENIC			
SNP_72718_A_1322	NW_004515892.1	scaffold415	1322	TT	CC	CC	INTERGENIC			
SNP_72719_A_1384	NW_004515892.1	scaffold415	1384	TT	CC	CC	INTERGENIC			
SNP_72720_A_1413	NW_004515892.1	scaffold415	1413	AA	GG	GG	INTERGENIC			
SNP_72721_A_9372	NW_004515892.1	scaffold415	9372	AA	CC	CC	INTERGENIC			
SNP_72722_A_9634	NW_004515892.1	scaffold415	9634	AA	TT	TT	INTERGENIC			
SNP_72723_A_9655	NW_004515892.1	scaffold415	9655	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72725_A_9659	NW_004515893.1	scaffold418	9659	GG	CC	CC	INTERGENIC		
SNP_72726_A_9660	NW_004515893.1	scaffold418	9660	AA	GG	GG	INTERGENIC		
SNP_72727_A_9724	NW_004515893.1	scaffold418	9724	CC	AA	AA	INTERGENIC		
SNP_72728_A_9763	NW_004515893.1	scaffold418	9763	TT	AA	AA	INTERGENIC		
SNP_72729_A_10043	NW_004515893.1	scaffold418	10043	TT	CC	CC	INTERGENIC		
SNP_72730_A_10060	NW_004515893.1	scaffold418	10060	AA	TT	TT	INTERGENIC		
SNP_72731_A_10076	NW_004515893.1	scaffold418	10076	AA	GG	GG	INTERGENIC		
SNP_72732_A_19249	NW_004515893.1	scaffold418	19249	CC	TT	TT	DRR	101505651	benzyl alcohol O-benzoyltransferase-like
SNP_72733_A_21427	NW_004515893.1	scaffold418	21427	TT	CC	CC	INTRON	101505651	benzyl alcohol O-benzoyltransferase-like
SNP_72734_A_21447	NW_004515893.1	scaffold418	21447	TT	GG	GG	INTRON	101505651	benzyl alcohol O-benzoyltransferase-like
SNP_72735_A_38899	NW_004515893.1	scaffold418	38899	GG	AA	AA	INTRON	101505976	salicylic acid-binding protein 2-like
SNP_72736_A_82367	NW_004515893.1	scaffold418	82367	TT	CC	CC	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72737_A_82505	NW_004515893.1	scaffold418	82505	GG	CC	CC	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72738_A_82546	NW_004515893.1	scaffold418	82546	TT	AA	AA	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72739_A_82652	NW_004515893.1	scaffold418	82652	AA	GG	GG	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72740_A_82748	NW_004515893.1	scaffold418	82748	GG	TT	TT	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72741_A_82753	NW_004515893.1	scaffold418	82753	AA	TT	TT	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72742_A_82794	NW_004515893.1	scaffold418	82794	GG	TT	TT	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72743_A_82802	NW_004515893.1	scaffold418	82802	TT	CC	CC	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72744_A_82863	NW_004515893.1	scaffold418	82863	AA	CC	CC	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72745_A_83126	NW_004515893.1	scaffold418	83126	CC	TT	TT	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72746_A_83127	NW_004515893.1	scaffold418	83127	AA	GG	GG	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72747_A_83135	NW_004515893.1	scaffold418	83135	TT	AA	AA	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72748_A_83163	NW_004515893.1	scaffold418	83163	TT	CC	CC	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72749_A_83195	NW_004515893.1	scaffold418	83195	AA	GG	GG	URR	101505000	pentatricopeptide repeat-containing protein At1g09900-like
SNP_72750_A_89812	NW_004515893.1	scaffold418	89812	AA	GG	GG	INTERGENIC		
SNP_72751_A_89887	NW_004515893.1	scaffold418	89887	AA	TT	TT	INTERGENIC		
SNP_72752_A_90055	NW_004515893.1	scaffold418	90055	GG	TT	TT	INTERGENIC		
SNP_72753_A_90080	NW_004515893.1	scaffold418	90080	CC	TT	TT	INTERGENIC		
SNP_72754_A_90142	NW_004515893.1	scaffold418	90142	TT	GG	GG	INTERGENIC		
SNP_72755_A_90159	NW_004515893.1	scaffold418	90159	GG	AA	AA	INTERGENIC		
SNP_72756_A_90250	NW_004515893.1	scaffold418	90250	GG	TT	TT	INTERGENIC		
SNP_72757_A_90263	NW_004515893.1	scaffold418	90263	TT	CC	CC	INTERGENIC		
SNP_72758_A_90347	NW_004515893.1	scaffold418	90347	GG	TT	TT	INTERGENIC		
SNP_72759_A_115255	NW_004515893.1	scaffold418	115255	CC	TT	TT	INTRON	101506939	alpha-galactosidase-like
SNP_72760_A_115817	NW_004515893.1	scaffold418	115817	CC	GG	GG	INTRON	101506939	alpha-galactosidase-like
SNP_72761_A_116744	NW_004515893.1	scaffold418	116744	GG	AA	AA	INTRON	101506939	alpha-galactosidase-like
SNP_72762_A_116797	NW_004515893.1	scaffold418	116797	CC	TT	TT	INTRON	101506939	alpha-galactosidase-like
SNP_72763_A_119145	NW_004515893.1	scaffold418	119145	TT	CC	CC	INTRON	101506939	alpha-galactosidase-like
SNP_72764_A_119303	NW_004515893.1	scaffold418	119303	GG	AA	AA	INTRON	101506939	alpha-galactosidase-like
SNP_72765_A_135363	NW_004515893.1	scaffold418	135363	GG	TT	TT	INTERGENIC		
SNP_72766_A_135733	NW_004515893.1	scaffold418	135733	TT	AA	AA	DRR	101505316	pentatricopeptide repeat-containing protein At1g62670, mitochondrial-like
SNP_72767_A_135735	NW_004515893.1	scaffold418	135735	GG	TT	TT	DRR	101505316	pentatricopeptide repeat-containing protein At1g62670, mitochondrial-like
SNP_72768_A_136032	NW_004515893.1	scaffold418	136032	GG	AA	AA	DRR	101505316	pentatricopeptide repeat-containing protein At1g62670, mitochondrial-like

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SNP_72769_A_141070	NW_004515893.1	scaffold418	141070	AA	TT	TT	INTERGENIC		
SNP_72770_A_141107	NW_004515893.1	scaffold418	141107	AA	GG	GG	INTERGENIC		
SNP_72771_A_153883	NW_004515893.1	scaffold418	153883	TT	CC	CC	INTERGENIC		
SNP_72773_A_155550	NW_004515893.1	scaffold418	155550	AA	TT	TT	INTERGENIC		
SNP_72775_A_127348	NW_004515894.1	scaffold419	127348	TT	GG	GG	INTERGENIC		
SNP_72776_A_148591	NW_004515894.1	scaffold419	148591	CC	TT	TT	DRR	101508319	Golgi SNAP receptor complex member 1-2-like
SNP_72778_A_184979	NW_004515894.1	scaffold419	184979	TT	GG	GG	INTERGENIC		
SNP_72779_A_200244	NW_004515894.1	scaffold419	200244	AA	GG	GG	DRR	101508636	uncharacterized LOC101508636
SNP_72780_A_218943	NW_004515894.1	scaffold419	218943	GG	TT	TT	INTRON	101510233	Unknown function
SNP_72781_A_219000	NW_004515894.1	scaffold419	219000	AA	TT	TT	INTRON	101510233	Unknown function
SNP_72782_A_219635	NW_004515894.1	scaffold419	219635	GG	AA	AA	INTRON	101510233	Unknown function
SNP_72783_A_219681	NW_004515894.1	scaffold419	219681	AA	TT	TT	INTRON	101510233	Unknown function
SNP_72784_A_219694	NW_004515894.1	scaffold419	219694	CC	TT	TT	INTRON	101510233	Unknown function
SNP_72785_A_242227	NW_004515894.1	scaffold419	242227	TT	CC	CC	INTRON	101510233	Unknown function
SNP_72786_A_242231	NW_004515894.1	scaffold419	242231	GG	AA	AA	INTRON	101510233	Unknown function
SNP_72787_A_323709	NW_004515894.1	scaffold419	323709	TT	CC	CC	INTERGENIC		
SNP_72789_A_340990	NW_004515894.1	scaffold419	340990	GG	TT	TT	INTERGENIC		
SNP_72790_A_341256	NW_004515894.1	scaffold419	341256	TT	CC	CC	INTERGENIC		
SNP_72791_A_17959	NW_004515895.1	scaffold420	17959	AA	GG	GG	DRR	101489056	uncharacterized LOC101489056
SNP_72792_A_64660	NW_004515895.1	scaffold420	64660	TT	GG	GG	URR	101490031	uncharacterized LOC101490031
SNP_72794_A_69678	NW_004515895.1	scaffold420	69678	GG	TT	TT	INTERGENIC		
SNP_72795_A_69690	NW_004515895.1	scaffold420	69690	CC	TT	TT	INTERGENIC		

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SNP_72796_A_70035	NW_004515895.1	scaffold420	70035	TT	GG	GG	INTERGENIC			
SNP_72797_A_78369	NW_004515895.1	scaffold420	78369	TT	CC	CC	INTERGENIC			
SNP_72798_A_78464	NW_004515895.1	scaffold420	78464	TT	GG	GG	INTERGENIC			
SNP_72799_A_78505	NW_004515895.1	scaffold420	78505	CC	TT	TT	INTERGENIC			
SNP_72800_A_78514	NW_004515895.1	scaffold420	78514	TT	CC	CC	INTERGENIC			
SNP_72801_A_78522	NW_004515895.1	scaffold420	78522	AA	GG	GG	INTERGENIC			
SNP_72802_A_78748	NW_004515895.1	scaffold420	78748	CC	TT	TT	INTERGENIC			
SNP_72803_A_78777	NW_004515895.1	scaffold420	78777	AA	GG	GG	INTERGENIC			
SNP_72804_A_82304	NW_004515895.1	scaffold420	82304	GG	CC	CC	INTERGENIC			
SNP_72806_A_86849	NW_004515895.1	scaffold420	86849	TT	AA	AA	INTERGENIC			
SNP_72807_A_86850	NW_004515895.1	scaffold420	86850	TT	CC	CC	INTERGENIC			
SNP_72808_A_92812	NW_004515895.1	scaffold420	92812	GG	CC	CC	INTERGENIC			
SNP_72811_A_185348	NW_004515895.1	scaffold420	185348	AA	GG	GG	INTERGENIC			
SNP_72812_A_185349	NW_004515895.1	scaffold420	185349	AA	CC	CC	INTERGENIC			
SNP_72813_A_249310	NW_004515895.1	scaffold420	249310	CC	TT	TT	INTERGENIC			
SNP_72814_A_249376	NW_004515895.1	scaffold420	249376	TT	CC	CC	INTERGENIC			
SNP_72815_A_249381	NW_004515895.1	scaffold420	249381	AA	CC	CC	INTERGENIC			
SNP_72816_A_249618	NW_004515895.1	scaffold420	249618	AA	TT	TT	INTERGENIC			
SNP_72817_A_249620	NW_004515895.1	scaffold420	249620	GG	CC	CC	INTERGENIC			
SNP_72818_A_249710	NW_004515895.1	scaffold420	249710	TT	CC	CC	INTERGENIC			
SNP_72819_A_249829	NW_004515895.1	scaffold420	249829	AA	GG	GG	INTERGENIC			
SNP_72820_A_250158	NW_004515895.1	scaffold420	250158	GG	AA	AA	INTERGENIC			

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SNP_72822_A_266572	NW_004515895.1	scaffold420	266572	TT	GG	GG	INTRON	101490695	Unknown function
SNP_72823_A_266772	NW_004515895.1	scaffold420	266772	GG	TT	TT	INTRON	101490695	Unknown function
SNP_72824_A_268711	NW_004515895.1	scaffold420	268711	AA	GG	GG	INTRON	101490695	Unknown function
SNP_72825_A_269913	NW_004515895.1	scaffold420	269913	GG	AA	AA	INTERGENIC		
SNP_72826_A_270994	NW_004515895.1	scaffold420	270994	GG	AA	AA	INTERGENIC		
SNP_72827_A_311961	NW_004515895.1	scaffold420	311961	AA	GG	GG	INTRON	101488394	beta-glucosidase 10-like
SNP_72828_A_311963	NW_004515895.1	scaffold420	311963	AA	GG	GG	INTRON	101488394	beta-glucosidase 10-like
SNP_72829_A_312590	NW_004515895.1	scaffold420	312590	CC	GG	GG	INTRON	101488394	beta-glucosidase 10-like
SNP_72830_A_324411	NW_004515895.1	scaffold420	324411	TT	GG	GG	INTERGENIC		
SNP_72831_A_324484	NW_004515895.1	scaffold420	324484	AA	CC	CC	INTERGENIC		
SNP_72832_A_324523	NW_004515895.1	scaffold420	324523	AA	GG	GG	INTERGENIC		
SNP_72833_A_324530	NW_004515895.1	scaffold420	324530	TT	CC	CC	INTERGENIC		
SNP_72834_A_324616	NW_004515895.1	scaffold420	324616	AA	GG	GG	INTERGENIC		
SNP_72835_A_324662	NW_004515895.1	scaffold420	324662	TT	CC	CC	INTERGENIC		
SNP_72837_A_45620	NW_004515896.1	scaffold421_2	45620	TT	AA	AA	INTERGENIC		
SNP_72838_A_45693	NW_004515896.1	scaffold421_2	45693	CC	TT	TT	INTERGENIC		
SNP_72839_A_45827	NW_004515896.1	scaffold421_2	45827	TT	AA	AA	INTERGENIC		
SNP_72840_A_45857	NW_004515896.1	scaffold421_2	45857	AA	CC	CC	INTERGENIC		
SNP_72841_A_45899	NW_004515896.1	scaffold421_2	45899	AA	GG	GG	INTERGENIC		
SNP_72842_A_77969	NW_004515896.1	scaffold421_2	77969	GG	AA	AA	INTERGENIC		
SNP_72843_A_91603	NW_004515896.1	scaffold421_2	91603	GG	AA	AA	INTERGENIC		
SNP_72845_A_149868	NW_004515896.1	scaffold421_2	149868	TT	CC	CC	INTERGENIC		

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SNP_72846_A_162532	NW_004515896.1	scaffold421_2	162532	CC	TT	TT	INTERGENIC			
SNP_72847_A_249715	NW_004515896.1	scaffold421_2	249715	CC	TT	TT	INTERGENIC			
SNP_72848_A_249738	NW_004515896.1	scaffold421_2	249738	GG	AA	AA	INTERGENIC			
SNP_72849_A_249740	NW_004515896.1	scaffold421_2	249740	TT	CC	CC	INTERGENIC			
SNP_72850_A_249830	NW_004515896.1	scaffold421_2	249830	TT	CC	CC	INTERGENIC			
SNP_72851_A_249871	NW_004515896.1	scaffold421_2	249871	TT	CC	CC	INTERGENIC			
SNP_72852_A_249872	NW_004515896.1	scaffold421_2	249872	AA	GG	GG	INTERGENIC			
SNP_72853_A_249911	NW_004515896.1	scaffold421_2	249911	TT	GG	GG	INTERGENIC			
SNP_72854_A_249958	NW_004515896.1	scaffold421_2	249958	AA	GG	GG	INTERGENIC			
SNP_72855_A_249969	NW_004515896.1	scaffold421_2	249969	AA	GG	GG	INTERGENIC			
SNP_72856_A_275366	NW_004515896.1	scaffold421_2	275366	TT	AA	AA	INTERGENIC			
SNP_72857_A_275369	NW_004515896.1	scaffold421_2	275369	TT	CC	CC	INTERGENIC			
SNP_72858_A_311114	NW_004515896.1	scaffold421_2	311114	TT	AA	AA	INTRON	101493497	Unknown function	
SNP_72859_A_318646	NW_004515896.1	scaffold421_2	318646	CC	TT	TT	INTRON	101493497	Unknown function	
SNP_72860_A_318647	NW_004515896.1	scaffold421_2	318647	AA	GG	GG	INTRON	101493497	Unknown function	
SNP_72862_A_323165	NW_004515896.1	scaffold421_2	323165	TT	GG	GG	URR	101493497	Unknown function	
SNP_72863_A_323476	NW_004515896.1	scaffold421_2	323476	TT	CC	CC	URR	101493497	Unknown function	
SNP_72864_A_323553	NW_004515896.1	scaffold421_2	323553	AA	GG	GG	URR	101493497	Unknown function	
SNP_72865_A_325630	NW_004515896.1	scaffold421_2	325630	CC	TT	TT	INTERGENIC			
SNP_72867_A_349917	NW_004515896.1	scaffold421_2	349917	TT	CC	CC	INTERGENIC			
SNP_72868_A_350173	NW_004515896.1	scaffold421_2	350173	AA	GG	GG	INTERGENIC			
SNP_72869_A_365246	NW_004515896.1	scaffold421_2	365246	TT	AA	AA	INTERGENIC			

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SNP_72871_A_382073	NW_004515896.1	scaffold421_2	382073	CC	TT	TT	INTERGENIC			
SNP_72872_A_395046	NW_004515896.1	scaffold421_2	395046	AA	TT	TT	INTERGENIC			
SNP_72873_A_401792	NW_004515896.1	scaffold421_2	401792	GG	AA	AA	INTERGENIC			
SNP_72874_A_413474	NW_004515896.1	scaffold421_2	413474	GG	CC	CC	INTERGENIC			
SNP_72875_A_416998	NW_004515896.1	scaffold421_2	416998	GG	AA	AA	INTERGENIC			
SNP_72876_A_420266	NW_004515896.1	scaffold421_2	420266	GG	AA	AA	INTERGENIC			
SNP_72878_A_425802	NW_004515896.1	scaffold421_2	425802	TT	AA	AA	INTERGENIC			
SNP_72879_A_447414	NW_004515896.1	scaffold421_2	447414	GG	AA	AA	INTERGENIC			
SNP_72880_A_447639	NW_004515896.1	scaffold421_2	447639	AA	GG	GG	INTERGENIC			
SNP_72881_A_447754	NW_004515896.1	scaffold421_2	447754	GG	AA	AA	INTERGENIC			
SNP_72882_A_456027	NW_004515896.1	scaffold421_2	456027	TT	CC	CC	INTERGENIC			
SNP_72883_A_456068	NW_004515896.1	scaffold421_2	456068	AA	TT	TT	INTERGENIC			
SNP_72884_A_462450	NW_004515896.1	scaffold421_2	462450	AA	TT	TT	INTERGENIC			
SNP_72885_A_465577	NW_004515896.1	scaffold421_2	465577	TT	CC	CC	INTERGENIC			
SNP_72886_A_465639	NW_004515896.1	scaffold421_2	465639	AA	GG	GG	INTERGENIC			
SNP_72887_A_501581	NW_004515896.1	scaffold421_2	501581	AA	GG	GG	INTERGENIC			
SNP_72888_A_501599	NW_004515896.1	scaffold421_2	501599	TT	GG	GG	INTERGENIC			
SNP_72889_A_501630	NW_004515896.1	scaffold421_2	501630	TT	CC	CC	INTERGENIC			
SNP_72890_A_513390	NW_004515896.1	scaffold421_2	513390	AA	GG	GG	INTERGENIC			
SNP_72892_A_539416	NW_004515896.1	scaffold421_2	539416	TT	CC	CC	INTERGENIC			
SNP_72893_A_571933	NW_004515896.1	scaffold421_2	571933	CC	AA	AA	INTERGENIC			
SNP_72894_A_581410	NW_004515896.1	scaffold421_2	581410	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72895_A_581782	NW_004515896.1	scaffold421_2	581782	GG	AA	AA	INTERGENIC			
SNP_72896_A_581851	NW_004515896.1	scaffold421_2	581851	TT	CC	CC	INTERGENIC			
SNP_72897_A_581961	NW_004515896.1	scaffold421_2	581961	GG	AA	AA	INTERGENIC			
SNP_72898_A_581968	NW_004515896.1	scaffold421_2	581968	TT	CC	CC	INTERGENIC			
SNP_72899_A_581970	NW_004515896.1	scaffold421_2	581970	CC	AA	AA	INTERGENIC			
SNP_72900_A_582192	NW_004515896.1	scaffold421_2	582192	TT	AA	AA	INTERGENIC			
SNP_72901_A_582979	NW_004515896.1	scaffold421_2	582979	AA	TT	TT	INTERGENIC			
SNP_72902_A_583134	NW_004515896.1	scaffold421_2	583134	TT	CC	CC	INTERGENIC			
SNP_72903_A_583148	NW_004515896.1	scaffold421_2	583148	GG	AA	AA	INTERGENIC			
SNP_72904_A_597587	NW_004515896.1	scaffold421_2	597587	GG	AA	AA	INTERGENIC			
SNP_72905_A_597801	NW_004515896.1	scaffold421_2	597801	CC	TT	TT	INTERGENIC			
SNP_72906_A_597864	NW_004515896.1	scaffold421_2	597864	TT	CC	CC	INTERGENIC			
SNP_72907_A_597874	NW_004515896.1	scaffold421_2	597874	AA	GG	GG	INTERGENIC			
SNP_72908_A_597883	NW_004515896.1	scaffold421_2	597883	AA	TT	TT	INTERGENIC			
SNP_72909_A_597939	NW_004515896.1	scaffold421_2	597939	CC	TT	TT	INTERGENIC			
SNP_72910_A_284	NW_004515897.1	scaffold421_1	284	AA	CC	CC	INTERGENIC			
SNP_72911_A_2616	NW_004515897.1	scaffold421_1	2616	GG	AA	AA	INTERGENIC			
SNP_72913_A_2945	NW_004515897.1	scaffold421_1	2945	GG	CC	CC	INTERGENIC			
SNP_72914_A_3012	NW_004515897.1	scaffold421_1	3012	CC	AA	AA	INTERGENIC			
SNP_72915_A_3033	NW_004515897.1	scaffold421_1	3033	CC	TT	TT	INTERGENIC			
SNP_72916_A_3227	NW_004515897.1	scaffold421_1	3227	GG	AA	AA	INTERGENIC			
SNP_72917_A_3290	NW_004515897.1	scaffold421_1	3290	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72918_A_4641	NW_004515897.1	scaffold421_1	4641	CC	TT	TT	INTERGENIC		
SNP_72919_A_87790	NW_004515897.1	scaffold421_1	87790	CC	TT	TT	INTERGENIC		
SNP_72920_A_97196	NW_004515897.1	scaffold421_1	97196	GG	AA	AA	INTERGENIC		
SNP_72921_A_97471	NW_004515897.1	scaffold421_1	97471	AA	GG	GG	INTERGENIC		
SNP_72922_A_98647	NW_004515897.1	scaffold421_1	98647	AA	GG	GG	INTERGENIC		
SNP_72923_A_98652	NW_004515897.1	scaffold421_1	98652	AA	CC	CC	INTERGENIC		
SNP_72924_A_98653	NW_004515897.1	scaffold421_1	98653	TT	AA	AA	INTERGENIC		
SNP_72925_A_98693	NW_004515897.1	scaffold421_1	98693	AA	GG	GG	INTERGENIC		
SNP_72927_A_33997	NW_004515899.1	scaffold424	33997	TT	GG	GG	INTRON	id201099	Unknown function
SNP_72929_A_40714	NW_004515899.1	scaffold424	40714	GG	CC	CC	URR	101498150	Unknown function
SNP_72930_A_41004	NW_004515899.1	scaffold424	41004	GG	AA	AA	INTERGENIC		
SNP_72931_A_50912	NW_004515899.1	scaffold424	50912	TT	CC	CC	INTERGENIC		
SNP_72932_A_50914	NW_004515899.1	scaffold424	50914	GG	AA	AA	INTERGENIC		
SNP_72933_A_50915	NW_004515899.1	scaffold424	50915	GG	CC	CC	INTERGENIC		
SNP_72934_A_50918	NW_004515899.1	scaffold424	50918	TT	CC	CC	INTERGENIC		
SNP_72935_A_61159	NW_004515899.1	scaffold424	61159	AA	GG	GG	INTERGENIC		
SNP_72936_A_63209	NW_004515899.1	scaffold424	63209	AA	CC	CC	INTERGENIC		
SNP_72937_A_70081	NW_004515899.1	scaffold424	70081	AA	GG	GG	INTERGENIC		
SNP_72938_A_80241	NW_004515899.1	scaffold424	80241	CC	TT	TT	INTERGENIC		
SNP_72939_A_80261	NW_004515899.1	scaffold424	80261	GG	AA	AA	INTERGENIC		
SNP_72940_A_80265	NW_004515899.1	scaffold424	80265	TT	GG	GG	INTERGENIC		
SNP_72941_A_88778	NW_004515899.1	scaffold424	88778	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_72942_A_88819	NW_004515899.1	scaffold424	88819	AA	CC	CC	INTERGENIC		
SNP_72943_A_90467	NW_004515899.1	scaffold424	90467	AA	TT	TT	INTERGENIC		
SNP_72944_A_92161	NW_004515899.1	scaffold424	92161	CC	AA	AA	INTERGENIC		
SNP_72945_A_92298	NW_004515899.1	scaffold424	92298	TT	CC	CC	INTERGENIC		
SNP_72946_A_104192	NW_004515899.1	scaffold424	104192	AA	GG	GG	INTERGENIC		
SNP_72947_A_104530	NW_004515899.1	scaffold424	104530	TT	GG	GG	INTERGENIC		
SNP_72948_A_106657	NW_004515899.1	scaffold424	106657	GG	AA	AA	INTERGENIC		
SNP_72949_A_110047	NW_004515899.1	scaffold424	110047	AA	GG	GG	INTERGENIC		
SNP_72950_A_112404	NW_004515899.1	scaffold424	112404	AA	GG	GG	INTERGENIC		
SNP_72951_A_113082	NW_004515899.1	scaffold424	113082	GG	AA	AA	INTERGENIC		
SNP_72952_A_113135	NW_004515899.1	scaffold424	113135	TT	CC	CC	INTERGENIC		
SNP_72953_A_113207	NW_004515899.1	scaffold424	113207	CC	GG	GG	INTERGENIC		
SNP_72954_A_113228	NW_004515899.1	scaffold424	113228	TT	AA	AA	INTERGENIC		
SNP_72955_A_113489	NW_004515899.1	scaffold424	113489	AA	TT	TT	INTERGENIC		
SNP_72956_A_113494	NW_004515899.1	scaffold424	113494	CC	AA	AA	INTERGENIC		
SNP_72957_A_124295	NW_004515899.1	scaffold424	124295	AA	GG	GG	INTERGENIC		
SNP_72958_A_124326	NW_004515899.1	scaffold424	124326	TT	GG	GG	INTERGENIC		
SNP_72959_A_755	NW_004515900.1	scaffold425	755	AA	CC	CC	INTERGENIC		
SNP_72960_A_15736	NW_004515901.1	scaffold427	15736	CC	AA	AA	INTRON	101498712	uncharacterized LOC101498712
SNP_72961_A_15755	NW_004515901.1	scaffold427	15755	GG	TT	TT	INTRON	101498712	uncharacterized LOC101498712
SNP_72962_A_16060	NW_004515901.1	scaffold427	16060	TT	AA	AA	INTRON	101498712	uncharacterized LOC101498712
SNP_72963_A_16097	NW_004515901.1	scaffold427	16097	AA	TT	TT	INTRON	101498712	uncharacterized LOC101498712

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72964_A_72475	NW_004515901.1	scaffold427	72475	GG	AA	AA	INTERGENIC			
SNP_72965_A_82747	NW_004515901.1	scaffold427	82747	TT	CC	CC	INTERGENIC			
SNP_72966_A_83070	NW_004515901.1	scaffold427	83070	CC	GG	GG	INTERGENIC			
SNP_72967_A_83133	NW_004515901.1	scaffold427	83133	TT	AA	AA	INTERGENIC			
SNP_72968_A_83661	NW_004515901.1	scaffold427	83661	TT	AA	AA	INTERGENIC			
SNP_72969_A_88666	NW_004515901.1	scaffold427	88666	TT	AA	AA	INTERGENIC			
SNP_72970_A_92373	NW_004515901.1	scaffold427	92373	GG	AA	AA	INTERGENIC			
SNP_72971_A_105107	NW_004515901.1	scaffold427	105107	AA	TT	TT	INTERGENIC			
SNP_72972_A_105113	NW_004515901.1	scaffold427	105113	AA	TT	TT	INTERGENIC			
SNP_72974_A_105124	NW_004515901.1	scaffold427	105124	CC	AA	AA	INTERGENIC			
SNP_72975_A_107641	NW_004515901.1	scaffold427	107641	CC	TT	TT	INTERGENIC			
SNP_72976_A_116799	NW_004515901.1	scaffold427	116799	GG	CC	CC	INTERGENIC			
SNP_72977_A_19851	NW_004515902.1	scaffold428	19851	AA	GG	GG	INTERGENIC			
SNP_72979_A_19963	NW_004515902.1	scaffold428	19963	AA	GG	GG	INTERGENIC			
SNP_72980_A_20004	NW_004515902.1	scaffold428	20004	AA	GG	GG	INTERGENIC			
SNP_72981_A_20055	NW_004515902.1	scaffold428	20055	AA	GG	GG	INTERGENIC			
SNP_72982_A_20094	NW_004515902.1	scaffold428	20094	AA	GG	GG	INTERGENIC			
SNP_72983_A_263	NW_004515903.1	scaffold429	263	AA	GG	GG	INTERGENIC			
SNP_72984_A_268	NW_004515903.1	scaffold429	268	CC	GG	GG	INTERGENIC			
SNP_72985_A_323	NW_004515903.1	scaffold429	323	AA	TT	TT	INTERGENIC			
SNP_72986_A_391	NW_004515903.1	scaffold429	391	CC	TT	TT	INTERGENIC			
SNP_72987_A_393	NW_004515903.1	scaffold429	393	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_72988_A_410	NW_004515903.1	scaffold429	410	CC	AA	AA	INTERGENIC			
SNP_72989_A_497	NW_004515903.1	scaffold429	497	GG	CC	CC	INTERGENIC			
SNP_72990_A_539	NW_004515903.1	scaffold429	539	CC	TT	TT	INTERGENIC			
SNP_72991_A_684	NW_004515903.1	scaffold429	684	CC	TT	TT	INTERGENIC			
SNP_72992_A_687	NW_004515903.1	scaffold429	687	AA	TT	TT	INTERGENIC			
SNP_72993_A_2846	NW_004515903.1	scaffold429	2846	TT	AA	AA	INTERGENIC			
SNP_72994_A_2855	NW_004515903.1	scaffold429	2855	TT	CC	CC	INTERGENIC			
SNP_72995_A_8144	NW_004515903.1	scaffold429	8144	TT	AA	AA	INTERGENIC			
SNP_72996_A_8222	NW_004515903.1	scaffold429	8222	AA	GG	GG	INTERGENIC			
SNP_72997_A_8262	NW_004515903.1	scaffold429	8262	AA	TT	TT	INTERGENIC			
SNP_72998_A_8263	NW_004515903.1	scaffold429	8263	AA	GG	GG	INTERGENIC			
SNP_72999_A_8317	NW_004515903.1	scaffold429	8317	GG	AA	AA	INTERGENIC			
SNP_73000_A_8343	NW_004515903.1	scaffold429	8343	AA	GG	GG	INTERGENIC			
SNP_73001_A_8405	NW_004515903.1	scaffold429	8405	AA	TT	TT	INTERGENIC			
SNP_73002_A_8422	NW_004515903.1	scaffold429	8422	AA	TT	TT	INTERGENIC			
SNP_73003_A_8459	NW_004515903.1	scaffold429	8459	AA	TT	TT	INTERGENIC			
SNP_73004_A_8478	NW_004515903.1	scaffold429	8478	CC	AA	AA	INTERGENIC			
SNP_73005_A_8577	NW_004515903.1	scaffold429	8577	CC	GG	GG	INTERGENIC			
SNP_73006_A_8583	NW_004515903.1	scaffold429	8583	AA	GG	GG	INTERGENIC			
SNP_73007_A_8628	NW_004515903.1	scaffold429	8628	TT	CC	CC	INTERGENIC			
SNP_73008_A_8826	NW_004515903.1	scaffold429	8826	GG	CC	CC	INTERGENIC			
SNP_73009_A_9006	NW_004515903.1	scaffold429	9006	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73010_A_9015	NW_004515903.1	scaffold429	9015	TT	CC	CC	INTERGENIC			
SNP_73011_A_9025	NW_004515903.1	scaffold429	9025	GG	TT	TT	INTERGENIC			
SNP_73012_A_9031	NW_004515903.1	scaffold429	9031	GG	AA	AA	INTERGENIC			
SNP_73013_A_9108	NW_004515903.1	scaffold429	9108	CC	TT	TT	INTERGENIC			
SNP_73014_A_9119	NW_004515903.1	scaffold429	9119	TT	GG	GG	INTERGENIC			
SNP_73015_A_9120	NW_004515903.1	scaffold429	9120	TT	AA	AA	INTERGENIC			
SNP_73016_A_11537	NW_004515903.1	scaffold429	11537	AA	TT	TT	INTERGENIC			
SNP_73017_A_14476	NW_004515903.1	scaffold429	14476	GG	CC	CC	INTERGENIC			
SNP_73018_A_14478	NW_004515903.1	scaffold429	14478	TT	CC	CC	INTERGENIC			
SNP_73019_A_15519	NW_004515903.1	scaffold429	15519	CC	TT	TT	INTERGENIC			
SNP_73020_A_15575	NW_004515903.1	scaffold429	15575	GG	AA	AA	INTERGENIC			
SNP_73021_A_15595	NW_004515903.1	scaffold429	15595	AA	CC	CC	INTERGENIC			
SNP_73022_A_15703	NW_004515903.1	scaffold429	15703	AA	GG	GG	INTERGENIC			
SNP_73023_A_15709	NW_004515903.1	scaffold429	15709	TT	GG	GG	INTERGENIC			
SNP_73024_A_15752	NW_004515903.1	scaffold429	15752	AA	GG	GG	INTERGENIC			
SNP_73025_A_15772	NW_004515903.1	scaffold429	15772	CC	TT	TT	INTERGENIC			
SNP_73026_A_17752	NW_004515903.1	scaffold429	17752	AA	GG	GG	INTERGENIC			
SNP_73027_A_28697	NW_004515903.1	scaffold429	28697	AA	GG	GG	INTERGENIC			
SNP_73028_A_28907	NW_004515903.1	scaffold429	28907	TT	GG	GG	INTERGENIC			
SNP_73029_A_28918	NW_004515903.1	scaffold429	28918	TT	AA	AA	INTERGENIC			
SNP_73030_A_28934	NW_004515903.1	scaffold429	28934	AA	CC	CC	INTERGENIC			
SNP_73031_A_29257	NW_004515903.1	scaffold429	29257	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73032_A_29477	NW_004515903.1	scaffold429	29477	AA	CC	CC	INTERGENIC			
SNP_73033_A_29529	NW_004515903.1	scaffold429	29529	CC	AA	AA	INTERGENIC			
SNP_73034_A_29531	NW_004515903.1	scaffold429	29531	TT	GG	GG	INTERGENIC			
SNP_73035_A_29552	NW_004515903.1	scaffold429	29552	AA	GG	GG	INTERGENIC			
SNP_73036_A_29554	NW_004515903.1	scaffold429	29554	TT	CC	CC	INTERGENIC			
SNP_73037_A_29610	NW_004515903.1	scaffold429	29610	TT	CC	CC	INTERGENIC			
SNP_73038_A_29755	NW_004515903.1	scaffold429	29755	AA	TT	TT	INTERGENIC			
SNP_73039_A_31335	NW_004515903.1	scaffold429	31335	GG	AA	AA	INTERGENIC			
SNP_73041_A_59341	NW_004515903.1	scaffold429	59341	AA	CC	CC	INTERGENIC			
SNP_73042_A_59384	NW_004515903.1	scaffold429	59384	AA	GG	GG	INTERGENIC			
SNP_73043_A_59583	NW_004515903.1	scaffold429	59583	AA	CC	CC	INTERGENIC			
SNP_73044_A_59754	NW_004515903.1	scaffold429	59754	TT	CC	CC	INTERGENIC			
SNP_73045_A_72477	NW_004515903.1	scaffold429	72477	AA	TT	TT	INTERGENIC			
SNP_73046_A_72481	NW_004515903.1	scaffold429	72481	AA	TT	TT	INTERGENIC			
SNP_73047_A_72504	NW_004515903.1	scaffold429	72504	AA	GG	GG	INTERGENIC			
SNP_73048_A_72563	NW_004515903.1	scaffold429	72563	GG	AA	AA	INTERGENIC			
SNP_73049_A_72568	NW_004515903.1	scaffold429	72568	TT	CC	CC	INTERGENIC			
SNP_73050_A_72681	NW_004515903.1	scaffold429	72681	AA	TT	TT	INTERGENIC			
SNP_73051_A_72685	NW_004515903.1	scaffold429	72685	TT	AA	AA	INTERGENIC			
SNP_73052_A_77785	NW_004515903.1	scaffold429	77785	TT	CC	CC	INTERGENIC			
SNP_73053_A_78480	NW_004515903.1	scaffold429	78480	GG	AA	AA	INTERGENIC			
SNP_73055_A_96300	NW_004515903.1	scaffold429	96300	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73056_A_96690	NW_004515903.1	scaffold429	96690	TT	CC	CC	INTERGENIC		
SNP_73057_A_96700	NW_004515903.1	scaffold429	96700	GG	AA	AA	INTERGENIC		
SNP_73058_A_96712	NW_004515903.1	scaffold429	96712	TT	CC	CC	INTERGENIC		
SNP_73059_A_96754	NW_004515903.1	scaffold429	96754	AA	GG	GG	INTERGENIC		
SNP_73060_A_96779	NW_004515903.1	scaffold429	96779	TT	CC	CC	INTERGENIC		
SNP_73061_A_98308	NW_004515903.1	scaffold429	98308	GG	AA	AA	INTERGENIC		
SNP_73062_A_111607	NW_004515903.1	scaffold429	111607	TT	CC	CC	INTRON	101499036	Unknown function
SNP_73063_A_111764	NW_004515903.1	scaffold429	111764	TT	AA	AA	NON_SYNONYMOUS_CODING	101499036	Unknown function
SNP_73064_A_128714	NW_004515903.1	scaffold429	128714	GG	AA	AA	INTERGENIC		
SNP_73065_A_128717	NW_004515903.1	scaffold429	128717	AA	TT	TT	INTERGENIC		
SNP_73066_A_128834	NW_004515903.1	scaffold429	128834	GG	CC	CC	INTERGENIC		
SNP_73067_A_128851	NW_004515903.1	scaffold429	128851	TT	AA	AA	INTERGENIC		
SNP_73068_A_129086	NW_004515903.1	scaffold429	129086	AA	TT	TT	INTERGENIC		
SNP_73069_A_129153	NW_004515903.1	scaffold429	129153	CC	TT	TT	INTERGENIC		
SNP_73070_A_129215	NW_004515903.1	scaffold429	129215	TT	GG	GG	INTERGENIC		
SNP_73071_A_129727	NW_004515903.1	scaffold429	129727	AA	CC	CC	INTERGENIC		
SNP_73072_A_135559	NW_004515903.1	scaffold429	135559	AA	TT	TT	INTERGENIC		
SNP_73073_A_146422	NW_004515903.1	scaffold429	146422	AA	GG	GG	INTERGENIC		
SNP_73074_A_146440	NW_004515903.1	scaffold429	146440	TT	AA	AA	INTERGENIC		
SNP_73075_A_146454	NW_004515903.1	scaffold429	146454	CC	TT	TT	INTERGENIC		
SNP_73076_A_149076	NW_004515903.1	scaffold429	149076	TT	CC	CC	INTERGENIC		
SNP_73077_A_149128	NW_004515903.1	scaffold429	149128	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73078_A_158623	NW_004515903.1	scaffold429	158623	AA	CC	CC	INTRON	101499348	uncharacterized LOC101499348
SNP_73079_A_161302	NW_004515903.1	scaffold429	161302	AA	TT	TT	INTRON	101499348	uncharacterized LOC101499348
SNP_73080_A_178991	NW_004515903.1	scaffold429	178991	CC	AA	AA	NON_SYNONYMOUS_CODING	101499348	uncharacterized LOC101499348
SNP_73081_A_181400	NW_004515903.1	scaffold429	181400	TT	GG	GG	INTERGENIC		
SNP_73082_A_181411	NW_004515903.1	scaffold429	181411	AA	GG	GG	INTERGENIC		
SNP_73083_A_181433	NW_004515903.1	scaffold429	181433	AA	GG	GG	INTERGENIC		
SNP_73084_A_181805	NW_004515903.1	scaffold429	181805	GG	AA	AA	INTERGENIC		
SNP_73085_A_181899	NW_004515903.1	scaffold429	181899	GG	AA	AA	INTERGENIC		
SNP_73086_A_1985	NW_004515905.1	scaffold432	1985	TT	AA	AA	INTERGENIC		
SNP_73087_A_2156	NW_004515905.1	scaffold432	2156	AA	TT	TT	INTERGENIC		
SNP_73088_A_2399	NW_004515905.1	scaffold432	2399	TT	CC	CC	INTERGENIC		
SNP_73089_A_2669	NW_004515905.1	scaffold432	2669	GG	AA	AA	INTERGENIC		
SNP_73090_A_2737	NW_004515905.1	scaffold432	2737	TT	CC	CC	INTERGENIC		
SNP_73091_A_4280	NW_004515905.1	scaffold432	4280	CC	AA	AA	INTERGENIC		
SNP_73092_A_4281	NW_004515905.1	scaffold432	4281	GG	AA	AA	INTERGENIC		
SNP_73093_A_4645	NW_004515905.1	scaffold432	4645	TT	CC	CC	INTERGENIC		
SNP_73094_A_4766	NW_004515905.1	scaffold432	4766	AA	CC	CC	INTERGENIC		
SNP_73095_A_4816	NW_004515905.1	scaffold432	4816	TT	CC	CC	INTERGENIC		
SNP_73096_A_4819	NW_004515905.1	scaffold432	4819	TT	AA	AA	INTERGENIC		
SNP_73097_A_7435	NW_004515905.1	scaffold432	7435	AA	CC	CC	INTERGENIC		
SNP_73098_A_7450	NW_004515905.1	scaffold432	7450	GG	AA	AA	INTERGENIC		
SNP_73099_A_10948	NW_004515905.1	scaffold432	10948	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73100_A_16019	NW_004515905.1	scaffold432	16019	CC	TT	TT	INTERGENIC			
SNP_73101_A_16039	NW_004515905.1	scaffold432	16039	TT	AA	AA	INTERGENIC			
SNP_73102_A_16063	NW_004515905.1	scaffold432	16063	AA	GG	GG	INTERGENIC			
SNP_73103_A_16142	NW_004515905.1	scaffold432	16142	AA	TT	TT	INTERGENIC			
SNP_73104_A_16332	NW_004515905.1	scaffold432	16332	GG	AA	AA	INTERGENIC			
SNP_73105_A_16352	NW_004515905.1	scaffold432	16352	TT	AA	AA	INTERGENIC			
SNP_73106_A_16395	NW_004515905.1	scaffold432	16395	GG	AA	AA	INTERGENIC			
SNP_73107_A_16926	NW_004515905.1	scaffold432	16926	TT	CC	CC	INTERGENIC			
SNP_73108_A_16927	NW_004515905.1	scaffold432	16927	CC	TT	TT	INTERGENIC			
SNP_73109_A_17270	NW_004515905.1	scaffold432	17270	CC	TT	TT	INTERGENIC			
SNP_73110_A_17736	NW_004515905.1	scaffold432	17736	AA	GG	GG	INTERGENIC			
SNP_73111_A_17835	NW_004515905.1	scaffold432	17835	AA	TT	TT	INTERGENIC			
SNP_73112_A_17863	NW_004515905.1	scaffold432	17863	GG	TT	TT	INTERGENIC			
SNP_73113_A_17884	NW_004515905.1	scaffold432	17884	AA	TT	TT	INTERGENIC			
SNP_73114_A_17908	NW_004515905.1	scaffold432	17908	AA	CC	CC	INTERGENIC			
SNP_73115_A_17987	NW_004515905.1	scaffold432	17987	GG	AA	AA	INTERGENIC			
SNP_73116_A_17990	NW_004515905.1	scaffold432	17990	AA	TT	TT	INTERGENIC			
SNP_73117_A_18085	NW_004515905.1	scaffold432	18085	AA	TT	TT	INTERGENIC			
SNP_73118_A_18112	NW_004515905.1	scaffold432	18112	CC	TT	TT	INTERGENIC			
SNP_73119_A_18137	NW_004515905.1	scaffold432	18137	AA	CC	CC	INTERGENIC			
SNP_73120_A_18149	NW_004515905.1	scaffold432	18149	CC	TT	TT	INTERGENIC			
SNP_73121_A_18161	NW_004515905.1	scaffold432	18161	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73122_A_18642	NW_004515905.1	scaffold432	18642	TT	GG	GG	INTERGENIC			
SNP_73123_A_19070	NW_004515905.1	scaffold432	19070	AA	TT	TT	INTERGENIC			
SNP_73124_A_4002	NW_004515906.1	scaffold433	4002	AA	GG	GG	INTERGENIC			
SNP_73125_A_4348	NW_004515906.1	scaffold433	4348	CC	TT	TT	INTERGENIC			
SNP_73126_A_7431	NW_004515906.1	scaffold433	7431	CC	GG	GG	INTERGENIC			
SNP_73127_A_8218	NW_004515906.1	scaffold433	8218	AA	GG	GG	INTERGENIC			
SNP_73129_A_8869	NW_004515906.1	scaffold433	8869	GG	AA	AA	INTERGENIC			
SNP_73130_A_10269	NW_004515906.1	scaffold433	10269	AA	GG	GG	INTERGENIC			
SNP_73131_A_11146	NW_004515906.1	scaffold433	11146	AA	GG	GG	INTERGENIC			
SNP_73132_A_11703	NW_004515906.1	scaffold433	11703	AA	TT	TT	INTERGENIC			
SNP_73133_A_11829	NW_004515906.1	scaffold433	11829	AA	GG	GG	INTERGENIC			
SNP_73134_A_12040	NW_004515906.1	scaffold433	12040	GG	AA	AA	INTERGENIC			
SNP_73135_A_12521	NW_004515906.1	scaffold433	12521	CC	GG	GG	INTERGENIC			
SNP_73137_A_20583	NW_004515906.1	scaffold433	20583	GG	TT	TT	INTERGENIC			
SNP_73138_A_23814	NW_004515906.1	scaffold433	23814	CC	TT	TT	INTERGENIC			
SNP_73139_A_25289	NW_004515906.1	scaffold433	25289	CC	GG	GG	INTERGENIC			
SNP_73140_A_25290	NW_004515906.1	scaffold433	25290	AA	TT	TT	INTERGENIC			
SNP_73141_A_26446	NW_004515906.1	scaffold433	26446	AA	GG	GG	INTERGENIC			
SNP_73142_A_29088	NW_004515906.1	scaffold433	29088	GG	AA	AA	INTERGENIC			
SNP_73143_A_29095	NW_004515906.1	scaffold433	29095	TT	CC	CC	INTERGENIC			
SNP_73144_A_29106	NW_004515906.1	scaffold433	29106	TT	AA	AA	INTERGENIC			
SNP_73145_A_29111	NW_004515906.1	scaffold433	29111	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73146_A_29170	NW_004515906.1	scaffold433	29170	TT	AA	AA	INTERGENIC			
SNP_73147_A_29222	NW_004515906.1	scaffold433	29222	CC	GG	GG	INTERGENIC			
SNP_73148_A_29239	NW_004515906.1	scaffold433	29239	GG	TT	TT	INTERGENIC			
SNP_73149_A_29263	NW_004515906.1	scaffold433	29263	AA	TT	TT	INTERGENIC			
SNP_73150_A_29281	NW_004515906.1	scaffold433	29281	GG	CC	CC	INTERGENIC			
SNP_73151_A_29285	NW_004515906.1	scaffold433	29285	GG	AA	AA	INTERGENIC			
SNP_73152_A_29347	NW_004515906.1	scaffold433	29347	AA	GG	GG	INTERGENIC			
SNP_73153_A_29580	NW_004515906.1	scaffold433	29580	GG	TT	TT	INTERGENIC			
SNP_73154_A_29951	NW_004515906.1	scaffold433	29951	AA	GG	GG	INTERGENIC			
SNP_73155_A_36044	NW_004515906.1	scaffold433	36044	AA	GG	GG	INTERGENIC			
SNP_73156_A_36072	NW_004515906.1	scaffold433	36072	CC	AA	AA	INTERGENIC			
SNP_73157_A_36086	NW_004515906.1	scaffold433	36086	GG	AA	AA	INTERGENIC			
SNP_73158_A_36179	NW_004515906.1	scaffold433	36179	CC	AA	AA	INTERGENIC			
SNP_73160_A_54094	NW_004515906.1	scaffold433	54094	GG	AA	AA	INTERGENIC			
SNP_73161_A_54278	NW_004515906.1	scaffold433	54278	AA	CC	CC	INTERGENIC			
SNP_73162_A_55750	NW_004515906.1	scaffold433	55750	TT	CC	CC	INTERGENIC			
SNP_73163_A_59478	NW_004515906.1	scaffold433	59478	AA	GG	GG	INTERGENIC			
SNP_73164_A_59667	NW_004515906.1	scaffold433	59667	TT	AA	AA	INTERGENIC			
SNP_73165_A_67102	NW_004515906.1	scaffold433	67102	AA	TT	TT	INTERGENIC			
SNP_73166_A_67329	NW_004515906.1	scaffold433	67329	GG	TT	TT	INTERGENIC			
SNP_73167_A_67584	NW_004515906.1	scaffold433	67584	TT	GG	GG	INTERGENIC			
SNP_73169_A_86242	NW_004515906.1	scaffold433	86242	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73171_A_86476	NW_004515906.1	scaffold433	86476	AA	GG	GG	INTERGENIC			
SNP_73173_A_102776	NW_004515906.1	scaffold433	102776	TT	CC	CC	INTERGENIC			
SNP_73174_A_104333	NW_004515906.1	scaffold433	104333	CC	AA	AA	INTERGENIC			
SNP_73175_A_110957	NW_004515906.1	scaffold433	110957	TT	GG	GG	INTERGENIC			
SNP_73176_A_112624	NW_004515906.1	scaffold433	112624	CC	TT	TT	INTERGENIC			
SNP_73177_A_116081	NW_004515906.1	scaffold433	116081	AA	TT	TT	INTERGENIC			
SNP_73178_A_127206	NW_004515906.1	scaffold433	127206	AA	GG	GG	INTERGENIC			
SNP_73179_A_127238	NW_004515906.1	scaffold433	127238	GG	TT	TT	INTERGENIC			
SNP_73180_A_127271	NW_004515906.1	scaffold433	127271	AA	GG	GG	INTERGENIC			
SNP_73181_A_129103	NW_004515906.1	scaffold433	129103	TT	CC	CC	INTERGENIC			
SNP_73182_A_132611	NW_004515906.1	scaffold433	132611	AA	GG	GG	INTERGENIC			
SNP_73183_A_132808	NW_004515906.1	scaffold433	132808	CC	AA	AA	INTERGENIC			
SNP_73184_A_132817	NW_004515906.1	scaffold433	132817	GG	CC	CC	INTERGENIC			
SNP_73185_A_132865	NW_004515906.1	scaffold433	132865	GG	AA	AA	INTERGENIC			
SNP_73186_A_141002	NW_004515906.1	scaffold433	141002	CC	AA	AA	INTERGENIC			
SNP_73187_A_141066	NW_004515906.1	scaffold433	141066	CC	GG	GG	INTERGENIC			
SNP_73188_A_141273	NW_004515906.1	scaffold433	141273	CC	TT	TT	INTERGENIC			
SNP_73189_A_142398	NW_004515906.1	scaffold433	142398	GG	AA	AA	INTERGENIC			
SNP_73190_A_142614	NW_004515906.1	scaffold433	142614	CC	TT	TT	INTERGENIC			
SNP_73191_A_142744	NW_004515906.1	scaffold433	142744	TT	CC	CC	INTERGENIC			
SNP_73193_A_145218	NW_004515906.1	scaffold433	145218	AA	CC	CC	INTERGENIC			
SNP_73195_A_146566	NW_004515906.1	scaffold433	146566	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73196_A_146777	NW_004515906.1	scaffold433	146777	CC	TT	TT	INTERGENIC			
SNP_73199_A_147516	NW_004515906.1	scaffold433	147516	TT	AA	AA	INTERGENIC			
SNP_73201_A_148222	NW_004515906.1	scaffold433	148222	TT	AA	AA	INTERGENIC			
SNP_73202_A_148608	NW_004515906.1	scaffold433	148608	TT	CC	CC	INTERGENIC			
SNP_73203_A_149115	NW_004515906.1	scaffold433	149115	CC	TT	TT	INTERGENIC			
SNP_73204_A_149160	NW_004515906.1	scaffold433	149160	AA	GG	GG	INTERGENIC			
SNP_73205_A_149199	NW_004515906.1	scaffold433	149199	TT	CC	CC	INTERGENIC			
SNP_73206_A_149495	NW_004515906.1	scaffold433	149495	CC	TT	TT	INTERGENIC			
SNP_73207_A_150566	NW_004515906.1	scaffold433	150566	TT	CC	CC	INTERGENIC			
SNP_73208_A_150765	NW_004515906.1	scaffold433	150765	GG	CC	CC	INTERGENIC			
SNP_73209_A_151689	NW_004515906.1	scaffold433	151689	CC	AA	AA	INTERGENIC			
SNP_73210_A_151690	NW_004515906.1	scaffold433	151690	AA	GG	GG	INTERGENIC			
SNP_73211_A_151715	NW_004515906.1	scaffold433	151715	AA	GG	GG	INTERGENIC			
SNP_73212_A_151740	NW_004515906.1	scaffold433	151740	TT	CC	CC	INTERGENIC			
SNP_73213_A_152091	NW_004515906.1	scaffold433	152091	CC	TT	TT	INTERGENIC			
SNP_73214_A_152212	NW_004515906.1	scaffold433	152212	AA	GG	GG	INTERGENIC			
SNP_73215_A_152427	NW_004515906.1	scaffold433	152427	GG	AA	AA	INTERGENIC			
SNP_73216_A_152477	NW_004515906.1	scaffold433	152477	AA	GG	GG	INTERGENIC			
SNP_73217_A_152492	NW_004515906.1	scaffold433	152492	GG	AA	AA	INTERGENIC			
SNP_73218_A_152499	NW_004515906.1	scaffold433	152499	CC	AA	AA	INTERGENIC			
SNP_73219_A_152513	NW_004515906.1	scaffold433	152513	GG	AA	AA	INTERGENIC			
SNP_73220_A_153431	NW_004515906.1	scaffold433	153431	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73221_A_155246	NW_004515906.1	scaffold433	155246	CC	TT	TT	INTERGENIC			
SNP_73222_A_155394	NW_004515906.1	scaffold433	155394	AA	CC	CC	INTERGENIC			
SNP_73223_A_155405	NW_004515906.1	scaffold433	155405	AA	GG	GG	INTERGENIC			
SNP_73224_A_155414	NW_004515906.1	scaffold433	155414	CC	GG	GG	INTERGENIC			
SNP_73225_A_155432	NW_004515906.1	scaffold433	155432	CC	TT	TT	INTERGENIC			
SNP_73226_A_155470	NW_004515906.1	scaffold433	155470	TT	CC	CC	INTERGENIC			
SNP_73227_A_155483	NW_004515906.1	scaffold433	155483	AA	GG	GG	INTERGENIC			
SNP_73228_A_155490	NW_004515906.1	scaffold433	155490	TT	CC	CC	INTERGENIC			
SNP_73229_A_155506	NW_004515906.1	scaffold433	155506	AA	TT	TT	INTERGENIC			
SNP_73230_A_155519	NW_004515906.1	scaffold433	155519	AA	GG	GG	INTERGENIC			
SNP_73231_A_155829	NW_004515906.1	scaffold433	155829	CC	GG	GG	INTERGENIC			
SNP_73232_A_157391	NW_004515906.1	scaffold433	157391	CC	AA	AA	INTERGENIC			
SNP_73233_A_157529	NW_004515906.1	scaffold433	157529	CC	GG	GG	INTERGENIC			
SNP_73235_A_157730	NW_004515906.1	scaffold433	157730	AA	CC	CC	INTERGENIC			
SNP_73236_A_158035	NW_004515906.1	scaffold433	158035	AA	CC	CC	INTERGENIC			
SNP_73237_A_158200	NW_004515906.1	scaffold433	158200	TT	CC	CC	INTERGENIC			
SNP_73238_A_158206	NW_004515906.1	scaffold433	158206	AA	GG	GG	INTERGENIC			
SNP_73239_A_158633	NW_004515906.1	scaffold433	158633	TT	AA	AA	INTERGENIC			
SNP_73241_A_158735	NW_004515906.1	scaffold433	158735	AA	TT	TT	INTERGENIC			
SNP_73242_A_158747	NW_004515906.1	scaffold433	158747	TT	CC	CC	INTERGENIC			
SNP_73243_A_160104	NW_004515906.1	scaffold433	160104	TT	AA	AA	INTERGENIC			
SNP_73244_A_160211	NW_004515906.1	scaffold433	160211	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73245_A_161434	NW_004515906.1	scaffold433	161434	GG	AA	AA	INTERGENIC			
SNP_73246_A_161610	NW_004515906.1	scaffold433	161610	GG	AA	AA	INTERGENIC			
SNP_73247_A_162012	NW_004515906.1	scaffold433	162012	CC	TT	TT	INTERGENIC			
SNP_73248_A_162252	NW_004515906.1	scaffold433	162252	TT	CC	CC	INTERGENIC			
SNP_73249_A_165757	NW_004515906.1	scaffold433	165757	GG	AA	AA	INTERGENIC			
SNP_73250_A_165760	NW_004515906.1	scaffold433	165760	AA	CC	CC	INTERGENIC			
SNP_73251_A_165765	NW_004515906.1	scaffold433	165765	AA	CC	CC	INTERGENIC			
SNP_73252_A_165876	NW_004515906.1	scaffold433	165876	CC	TT	TT	INTERGENIC			
SNP_73253_A_165888	NW_004515906.1	scaffold433	165888	TT	CC	CC	INTERGENIC			
SNP_73254_A_165900	NW_004515906.1	scaffold433	165900	TT	CC	CC	INTERGENIC			
SNP_73257_A_166595	NW_004515906.1	scaffold433	166595	CC	TT	TT	INTERGENIC			
SNP_73258_A_166624	NW_004515906.1	scaffold433	166624	GG	AA	AA	INTERGENIC			
SNP_73259_A_166672	NW_004515906.1	scaffold433	166672	TT	CC	CC	INTERGENIC			
SNP_73260_A_166676	NW_004515906.1	scaffold433	166676	TT	GG	GG	INTERGENIC			
SNP_73261_A_166739	NW_004515906.1	scaffold433	166739	GG	AA	AA	INTERGENIC			
SNP_73262_A_166798	NW_004515906.1	scaffold433	166798	GG	TT	TT	INTERGENIC			
SNP_73263_A_168110	NW_004515906.1	scaffold433	168110	AA	GG	GG	INTERGENIC			
SNP_73264_A_168925	NW_004515906.1	scaffold433	168925	GG	AA	AA	INTERGENIC			
SNP_73265_A_168937	NW_004515906.1	scaffold433	168937	AA	GG	GG	INTERGENIC			
SNP_73266_A_168975	NW_004515906.1	scaffold433	168975	AA	GG	GG	INTERGENIC			
SNP_73267_A_169025	NW_004515906.1	scaffold433	169025	GG	AA	AA	INTERGENIC			
SNP_73268_A_169187	NW_004515906.1	scaffold433	169187	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73269_A_169334	NW_004515906.1	scaffold433	169334	CC	GG	GG	INTERGENIC			
SNP_73270_A_169461	NW_004515906.1	scaffold433	169461	AA	GG	GG	INTERGENIC			
SNP_73271_A_169851	NW_004515906.1	scaffold433	169851	CC	GG	GG	INTERGENIC			
SNP_73272_A_2028	NW_004515908.1	scaffold435	2028	GG	AA	AA	INTERGENIC			
SNP_73273_A_50112	NW_004515908.1	scaffold435	50112	TT	AA	AA	INTERGENIC			
SNP_73274_A_50123	NW_004515908.1	scaffold435	50123	TT	CC	CC	INTERGENIC			
SNP_73275_A_50124	NW_004515908.1	scaffold435	50124	TT	AA	AA	INTERGENIC			
SNP_73276_A_50830	NW_004515908.1	scaffold435	50830	CC	TT	TT	INTERGENIC			
SNP_73277_A_108961	NW_004515908.1	scaffold435	108961	TT	GG	GG	INTERGENIC			
SNP_73278_A_109050	NW_004515908.1	scaffold435	109050	TT	CC	CC	INTERGENIC			
SNP_73279_A_109064	NW_004515908.1	scaffold435	109064	CC	TT	TT	INTERGENIC			
SNP_73280_A_109108	NW_004515908.1	scaffold435	109108	CC	TT	TT	INTERGENIC			
SNP_73282_A_109143	NW_004515908.1	scaffold435	109143	CC	TT	TT	INTERGENIC			
SNP_73283_A_109152	NW_004515908.1	scaffold435	109152	AA	GG	GG	INTERGENIC			
SNP_73284_A_109377	NW_004515908.1	scaffold435	109377	AA	TT	TT	INTERGENIC			
SNP_73285_A_109387	NW_004515908.1	scaffold435	109387	CC	AA	AA	INTERGENIC			
SNP_73286_A_109390	NW_004515908.1	scaffold435	109390	GG	AA	AA	INTERGENIC			
SNP_73287_A_109401	NW_004515908.1	scaffold435	109401	AA	TT	TT	INTERGENIC			
SNP_73288_A_109503	NW_004515908.1	scaffold435	109503	CC	AA	AA	INTERGENIC			
SNP_73289_A_118079	NW_004515908.1	scaffold435	118079	AA	GG	GG	INTERGENIC			
SNP_73290_A_2290	NW_004515909.1	scaffold436	2290	GG	TT	TT	INTERGENIC			
SNP_73291_A_2302	NW_004515909.1	scaffold436	2302	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73292_A_2311	NW_004515909.1	scaffold436	2311	AA	TT	TT	INTERGENIC			
SNP_73293_A_2314	NW_004515909.1	scaffold436	2314	AA	TT	TT	INTERGENIC			
SNP_73294_A_2363	NW_004515909.1	scaffold436	2363	GG	AA	AA	INTERGENIC			
SNP_73295_A_2371	NW_004515909.1	scaffold436	2371	TT	CC	CC	INTERGENIC			
SNP_73296_A_2423	NW_004515909.1	scaffold436	2423	GG	AA	AA	INTERGENIC			
SNP_73297_A_2431	NW_004515909.1	scaffold436	2431	TT	CC	CC	INTERGENIC			
SNP_73298_A_2446	NW_004515909.1	scaffold436	2446	TT	GG	GG	INTERGENIC			
SNP_73299_A_2697	NW_004515909.1	scaffold436	2697	AA	TT	TT	INTERGENIC			
SNP_73300_A_2720	NW_004515909.1	scaffold436	2720	CC	TT	TT	INTERGENIC			
SNP_73301_A_2807	NW_004515909.1	scaffold436	2807	TT	GG	GG	INTERGENIC			
SNP_73302_A_2816	NW_004515909.1	scaffold436	2816	AA	GG	GG	INTERGENIC			
SNP_73303_A_4498	NW_004515909.1	scaffold436	4498	AA	TT	TT	INTERGENIC			
SNP_73304_A_4507	NW_004515909.1	scaffold436	4507	GG	AA	AA	INTERGENIC			
SNP_73305_A_5935	NW_004515909.1	scaffold436	5935	AA	GG	GG	INTERGENIC			
SNP_73306_A_5991	NW_004515909.1	scaffold436	5991	GG	AA	AA	INTERGENIC			
SNP_73307_A_6039	NW_004515909.1	scaffold436	6039	GG	AA	AA	INTERGENIC			
SNP_73308_A_20165	NW_004515909.1	scaffold436	20165	AA	TT	TT	INTERGENIC			
SNP_73309_A_35255	NW_004515909.1	scaffold436	35255	AA	GG	GG	INTERGENIC			
SNP_73310_A_35258	NW_004515909.1	scaffold436	35258	TT	CC	CC	INTERGENIC			
SNP_73311_A_38060	NW_004515909.1	scaffold436	38060	GG	AA	AA	INTERGENIC			
SNP_73312_A_38067	NW_004515909.1	scaffold436	38067	TT	GG	AA	INTERGENIC			
SNP_73313_A_67123	NW_004515909.1	scaffold436	67123	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73314_A_67130	NW_004515909.1	scaffold436	67130	TT	AA	AA	INTERGENIC		
SNP_73316_A_67153	NW_004515909.1	scaffold436	67153	GG	AA	AA	INTERGENIC		
SNP_73318_A_74019	NW_004515909.1	scaffold436	74019	CC	TT	TT	INTERGENIC		
SNP_73319_A_74081	NW_004515909.1	scaffold436	74081	TT	AA	AA	INTERGENIC		
SNP_73320_A_57	NW_004515910.1	scaffold437	57	GG	CC	CC	INTERGENIC		
SNP_73322_A_2040	NW_004515910.1	scaffold437	2040	AA	TT	TT	DRR	101501575	extensin-like
SNP_73323_A_2113	NW_004515910.1	scaffold437	2113	TT	GG	GG	DRR	101501575	extensin-like
SNP_73324_A_2472	NW_004515910.1	scaffold437	2472	TT	AA	AA	NON_SYNONYMOUS_CODING	101501575	extensin-like
SNP_73326_A_3005	NW_004515910.1	scaffold437	3005	CC	AA	AA	INTRON	101501575	extensin-like
SNP_73327_A_3069	NW_004515910.1	scaffold437	3069	CC	TT	TT	INTRON	101501575	extensin-like
SNP_73328_A_3975	NW_004515910.1	scaffold437	3975	CC	TT	TT	INTRON	101501575	extensin-like
SNP_73329_A_4086	NW_004515910.1	scaffold437	4086	AA	GG	GG	INTRON	101501575	extensin-like
SNP_73330_A_4090	NW_004515910.1	scaffold437	4090	TT	AA	AA	INTRON	101501575	extensin-like
SNP_73331_A_4101	NW_004515910.1	scaffold437	4101	TT	AA	AA	INTRON	101501575	extensin-like
SNP_73332_A_4103	NW_004515910.1	scaffold437	4103	TT	CC	CC	INTRON	101501575	extensin-like
SNP_73333_A_4119	NW_004515910.1	scaffold437	4119	TT	CC	CC	SPLICE_SITE_REGION	101501575	extensin-like
SNP_73334_A_4557	NW_004515910.1	scaffold437	4557	TT	GG	GG	URR	101501575	extensin-like
SNP_73335_A_4569	NW_004515910.1	scaffold437	4569	AA	GG	GG	URR	101501575	extensin-like
SNP_73336_A_4619	NW_004515910.1	scaffold437	4619	TT	CC	CC	URR	101501575	extensin-like
SNP_73337_A_4688	NW_004515910.1	scaffold437	4688	TT	CC	CC	URR	101501575	extensin-like
SNP_73338_A_4725	NW_004515910.1	scaffold437	4725	CC	AA	AA	URR	101501575	extensin-like
SNP_73339_A_4767	NW_004515910.1	scaffold437	4767	CC	GG	GG	URR	101501575	extensin-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73340_A_5603	NW_004515910.1	scaffold437	5603	GG	AA	AA	URR	101501575	extensin-like
SNP_73341_A_6551	NW_004515910.1	scaffold437	6551	GG	AA	AA	INTERGENIC		
SNP_73342_A_10337	NW_004515910.1	scaffold437	10337	GG	CC	CC	INTRON	101501885	extensin-like
SNP_73344_A_13473	NW_004515910.1	scaffold437	13473	GG	AA	AA	INTERGENIC		
SNP_73345_A_19539	NW_004515910.1	scaffold437	19539	AA	CC	CC	INTERGENIC		
SNP_73346_A_19575	NW_004515910.1	scaffold437	19575	GG	AA	AA	INTERGENIC		
SNP_73347_A_19586	NW_004515910.1	scaffold437	19586	CC	TT	TT	INTERGENIC		
SNP_73348_A_21131	NW_004515910.1	scaffold437	21131	AA	GG	GG	DRR	101502213	extensin-like
SNP_73349_A_22193	NW_004515910.1	scaffold437	22193	GG	AA	AA	URR	101502213	extensin-like
SNP_73350_A_26615	NW_004515910.1	scaffold437	26615	GG	AA	AA	INTERGENIC		
SNP_73351_A_26616	NW_004515910.1	scaffold437	26616	AA	CC	CC	INTERGENIC		
SNP_73352_A_27208	NW_004515910.1	scaffold437	27208	GG	AA	AA	INTERGENIC		
SNP_73354_A_28236	NW_004515910.1	scaffold437	28236	TT	AA	AA	INTERGENIC		
SNP_73355_A_28280	NW_004515910.1	scaffold437	28280	TT	AA	AA	INTERGENIC		
SNP_73356_A_28283	NW_004515910.1	scaffold437	28283	TT	AA	AA	INTERGENIC		
SNP_73357_A_28403	NW_004515910.1	scaffold437	28403	TT	AA	AA	INTERGENIC		
SNP_73358_A_30878	NW_004515910.1	scaffold437	30878	AA	GG	GG	INTERGENIC		
SNP_73359_A_30934	NW_004515910.1	scaffold437	30934	AA	TT	TT	INTERGENIC		
SNP_73360_A_34868	NW_004515910.1	scaffold437	34868	CC	AA	AA	INTERGENIC		
SNP_73361_A_34869	NW_004515910.1	scaffold437	34869	AA	TT	TT	INTERGENIC		
SNP_73362_A_34870	NW_004515910.1	scaffold437	34870	TT	AA	AA	INTERGENIC		
SNP_73363_A_34962	NW_004515910.1	scaffold437	34962	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73364_A_34963	NW_004515910.1	scaffold437	34963	CC	AA	AA	INTERGENIC			
SNP_73365_A_34986	NW_004515910.1	scaffold437	34986	TT	CC	CC	INTERGENIC			
SNP_73366_A_35033	NW_004515910.1	scaffold437	35033	CC	TT	TT	INTERGENIC			
SNP_73367_A_35056	NW_004515910.1	scaffold437	35056	TT	CC	CC	INTERGENIC			
SNP_73368_A_35090	NW_004515910.1	scaffold437	35090	AA	GG	GG	INTERGENIC			
SNP_73369_A_35128	NW_004515910.1	scaffold437	35128	TT	CC	CC	INTERGENIC			
SNP_73370_A_35173	NW_004515910.1	scaffold437	35173	AA	GG	GG	INTERGENIC			
SNP_73371_A_35202	NW_004515910.1	scaffold437	35202	TT	CC	CC	INTERGENIC			
SNP_73372_A_35244	NW_004515910.1	scaffold437	35244	AA	GG	GG	INTERGENIC			
SNP_73373_A_35333	NW_004515910.1	scaffold437	35333	TT	CC	CC	INTERGENIC			
SNP_73374_A_35674	NW_004515910.1	scaffold437	35674	TT	AA	AA	INTERGENIC			
SNP_73375_A_35693	NW_004515910.1	scaffold437	35693	AA	TT	TT	INTERGENIC			
SNP_73376_A_35742	NW_004515910.1	scaffold437	35742	TT	AA	AA	INTERGENIC			
SNP_73377_A_35759	NW_004515910.1	scaffold437	35759	CC	TT	TT	INTERGENIC			
SNP_73378_A_35763	NW_004515910.1	scaffold437	35763	TT	CC	CC	INTERGENIC			
SNP_73379_A_35946	NW_004515910.1	scaffold437	35946	GG	TT	TT	INTERGENIC			
SNP_73380_A_39853	NW_004515910.1	scaffold437	39853	AA	CC	CC	INTERGENIC			
SNP_73381_A_45212	NW_004515910.1	scaffold437	45212	CC	TT	TT	INTERGENIC			
SNP_73383_A_50625	NW_004515910.1	scaffold437	50625	AA	GG	GG	INTERGENIC			
SNP_73384_A_50648	NW_004515910.1	scaffold437	50648	CC	TT	TT	INTERGENIC			
SNP_73385_A_50649	NW_004515910.1	scaffold437	50649	AA	TT	TT	INTERGENIC			
SNP_73386_A_50655	NW_004515910.1	scaffold437	50655	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73387_A_52276	NW_004515910.1	scaffold437	52276	GG	AA	AA	INTERGENIC		
SNP_73388_A_60347	NW_004515910.1	scaffold437	60347	GG	TT	TT	INTERGENIC		
SNP_73389_A_60348	NW_004515910.1	scaffold437	60348	TT	CC	CC	INTERGENIC		
SNP_73390_A_60389	NW_004515910.1	scaffold437	60389	AA	CC	CC	INTERGENIC		
SNP_73391_A_60494	NW_004515910.1	scaffold437	60494	TT	AA	AA	INTERGENIC		
SNP_73392_A_60497	NW_004515910.1	scaffold437	60497	GG	AA	AA	INTERGENIC		
SNP_73393_A_60966	NW_004515910.1	scaffold437	60966	GG	TT	TT	INTERGENIC		
SNP_73394_A_63475	NW_004515910.1	scaffold437	63475	CC	AA	AA	DRR	101502535	extensin-like
SNP_73395_A_70352	NW_004515910.1	scaffold437	70352	TT	CC	CC	INTRON	101502535	extensin-like
SNP_73396_A_72340	NW_004515910.1	scaffold437	72340	CC	TT	TT	INTRON	101502535	extensin-like
SNP_73397_A_77387	NW_004515910.1	scaffold437	77387	CC	AA	AA	INTRON	101502535	extensin-like
SNP_73399_A_1108	NW_004515911.1	scaffold438	1108	AA	GG	GG	INTERGENIC		
SNP_73400_A_1633	NW_004515911.1	scaffold438	1633	AA	GG	GG	INTERGENIC		
SNP_73401_A_1636	NW_004515911.1	scaffold438	1636	TT	CC	CC	INTERGENIC		
SNP_73402_A_1639	NW_004515911.1	scaffold438	1639	TT	CC	CC	INTERGENIC		
SNP_73403_A_1657	NW_004515911.1	scaffold438	1657	GG	AA	AA	INTERGENIC		
SNP_73404_A_1669	NW_004515911.1	scaffold438	1669	AA	GG	GG	INTERGENIC		
SNP_73405_A_1870	NW_004515911.1	scaffold438	1870	GG	TT	TT	INTERGENIC		
SNP_73406_A_1969	NW_004515911.1	scaffold438	1969	AA	GG	GG	INTERGENIC		
SNP_73407_A_3726	NW_004515911.1	scaffold438	3726	TT	CC	CC	INTERGENIC		
SNP_73408_A_3874	NW_004515911.1	scaffold438	3874	CC	TT	TT	INTERGENIC		
SNP_73409_A_3954	NW_004515911.1	scaffold438	3954	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73410_A_6821	NW_004515911.1	scaffold438	6821	CC	TT	TT	INTERGENIC			
SNP_73411_A_6879	NW_004515911.1	scaffold438	6879	AA	TT	TT	INTERGENIC			
SNP_73412_A_6923	NW_004515911.1	scaffold438	6923	GG	AA	AA	INTERGENIC			
SNP_73414_A_6977	NW_004515911.1	scaffold438	6977	GG	AA	AA	INTERGENIC			
SNP_73415_A_14979	NW_004515911.1	scaffold438	14979	GG	TT	TT	INTERGENIC			
SNP_73416_A_47534	NW_004515911.1	scaffold438	47534	GG	TT	TT	INTERGENIC			
SNP_73417_A_48072	NW_004515911.1	scaffold438	48072	CC	GG	GG	INTERGENIC			
SNP_73418_A_74759	NW_004515911.1	scaffold438	74759	TT	AA	AA	INTERGENIC			
SNP_73419_A_74860	NW_004515911.1	scaffold438	74860	CC	AA	AA	INTERGENIC			
SNP_73420_A_74893	NW_004515911.1	scaffold438	74893	AA	GG	GG	INTERGENIC			
SNP_73421_A_74936	NW_004515911.1	scaffold438	74936	AA	TT	TT	INTERGENIC			
SNP_73423_A_75021	NW_004515911.1	scaffold438	75021	AA	GG	GG	INTERGENIC			
SNP_73424_A_75053	NW_004515911.1	scaffold438	75053	AA	CC	CC	INTERGENIC			
SNP_73425_A_76520	NW_004515911.1	scaffold438	76520	GG	TT	TT	INTERGENIC			
SNP_73426_A_76867	NW_004515911.1	scaffold438	76867	CC	AA	AA	INTERGENIC			
SNP_73427_A_76901	NW_004515911.1	scaffold438	76901	TT	GG	GG	INTERGENIC			
SNP_73428_A_93306	NW_004515911.1	scaffold438	93306	TT	CC	CC	INTERGENIC			
SNP_73429_A_93386	NW_004515911.1	scaffold438	93386	AA	GG	GG	INTERGENIC			
SNP_73430_A_97807	NW_004515911.1	scaffold438	97807	CC	TT	TT	INTERGENIC			
SNP_73431_A_97825	NW_004515911.1	scaffold438	97825	TT	CC	CC	INTERGENIC			
SNP_73432_A_97942	NW_004515911.1	scaffold438	97942	CC	TT	TT	INTERGENIC			
SNP_73433_A_97943	NW_004515911.1	scaffold438	97943	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73434_A_98004	NW_004515911.1	scaffold438	98004	TT	CC	CC	INTERGENIC			
SNP_73435_A_98010	NW_004515911.1	scaffold438	98010	CC	TT	TT	INTERGENIC			
SNP_73436_A_98011	NW_004515911.1	scaffold438	98011	AA	GG	GG	INTERGENIC			
SNP_73437_A_98015	NW_004515911.1	scaffold438	98015	AA	CC	CC	INTERGENIC			
SNP_73438_A_98024	NW_004515911.1	scaffold438	98024	GG	CC	CC	INTERGENIC			
SNP_73439_A_98097	NW_004515911.1	scaffold438	98097	CC	GG	GG	INTERGENIC			
SNP_73440_A_98168	NW_004515911.1	scaffold438	98168	TT	GG	GG	INTERGENIC			
SNP_73441_A_98217	NW_004515911.1	scaffold438	98217	TT	AA	AA	INTERGENIC			
SNP_73442_A_98218	NW_004515911.1	scaffold438	98218	TT	CC	CC	INTERGENIC			
SNP_73443_A_98220	NW_004515911.1	scaffold438	98220	TT	AA	AA	INTERGENIC			
SNP_73444_A_98258	NW_004515911.1	scaffold438	98258	AA	GG	GG	INTERGENIC			
SNP_73445_A_98261	NW_004515911.1	scaffold438	98261	GG	TT	TT	INTERGENIC			
SNP_73446_A_23172	NW_004515912.1	scaffold440	23172	GG	CC	CC	INTERGENIC			
SNP_73447_A_30117	NW_004515912.1	scaffold440	30117	CC	AA	AA	INTERGENIC			
SNP_73448_A_30196	NW_004515912.1	scaffold440	30196	CC	AA	AA	INTERGENIC			
SNP_73450_A_30308	NW_004515912.1	scaffold440	30308	GG	TT	TT	INTERGENIC			
SNP_73451_A_30340	NW_004515912.1	scaffold440	30340	AA	GG	GG	INTERGENIC			
SNP_73452_A_30425	NW_004515912.1	scaffold440	30425	GG	AA	AA	INTERGENIC			
SNP_73453_A_30473	NW_004515912.1	scaffold440	30473	GG	TT	TT	INTERGENIC			
SNP_73454_A_37231	NW_004515912.1	scaffold440	37231	CC	AA	AA	INTERGENIC			
SNP_73455_A_37261	NW_004515912.1	scaffold440	37261	TT	CC	CC	INTERGENIC			
SNP_73456_A_14569	NW_004515913.1	scaffold441	14569	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73457_A_33549	NW_004515913.1	scaffold441	33549	AA	CC	CC	INTERGENIC			
SNP_73458_A_34040	NW_004515913.1	scaffold441	34040	CC	GG	GG	INTERGENIC			
SNP_73459_A_34127	NW_004515913.1	scaffold441	34127	GG	AA	AA	INTERGENIC			
SNP_73460_A_14513	NW_004515914.1	scaffold442	14513	AA	CC	CC	INTERGENIC			
SNP_73462_A_35105	NW_004515914.1	scaffold442	35105	CC	AA	AA	INTERGENIC			
SNP_73463_A_35605	NW_004515914.1	scaffold442	35605	CC	TT	TT	INTERGENIC			
SNP_73464_A_35606	NW_004515914.1	scaffold442	35606	GG	TT	TT	INTERGENIC			
SNP_73465_A_36427	NW_004515914.1	scaffold442	36427	CC	TT	TT	INTERGENIC			
SNP_73466_A_36428	NW_004515914.1	scaffold442	36428	TT	GG	GG	INTERGENIC			
SNP_73467_A_36721	NW_004515914.1	scaffold442	36721	TT	CC	CC	INTERGENIC			
SNP_73468_A_36964	NW_004515914.1	scaffold442	36964	AA	GG	GG	INTERGENIC			
SNP_73469_A_37093	NW_004515914.1	scaffold442	37093	CC	TT	TT	INTERGENIC			
SNP_73470_A_41424	NW_004515914.1	scaffold442	41424	GG	TT	TT	INTERGENIC			
SNP_73471_A_42744	NW_004515914.1	scaffold442	42744	TT	CC	CC	INTERGENIC			
SNP_73472_A_42749	NW_004515914.1	scaffold442	42749	CC	AA	AA	INTERGENIC			
SNP_73473_A_49999	NW_004515914.1	scaffold442	49999	TT	CC	CC	INTERGENIC			
SNP_73474_A_50017	NW_004515914.1	scaffold442	50017	AA	GG	GG	INTERGENIC			
SNP_73475_A_54958	NW_004515914.1	scaffold442	54958	TT	CC	CC	INTERGENIC			
SNP_73476_A_71565	NW_004515914.1	scaffold442	71565	TT	CC	CC	INTERGENIC			
SNP_73477_A_71825	NW_004515914.1	scaffold442	71825	GG	TT	TT	INTERGENIC			
SNP_73478_A_85764	NW_004515914.1	scaffold442	85764	AA	CC	CC	INTERGENIC			
SNP_73479_A_2125	NW_004515916.1	scaffold446	2125	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73480_A_9823	NW_004515916.1	scaffold446	9823	GG	TT	TT	INTERGENIC			
SNP_73481_A_12795	NW_004515916.1	scaffold446	12795	AA	GG	GG	INTERGENIC			
SNP_73482_A_12830	NW_004515916.1	scaffold446	12830	TT	CC	CC	INTERGENIC			
SNP_73483_A_12831	NW_004515916.1	scaffold446	12831	CC	AA	AA	INTERGENIC			
SNP_73484_A_12837	NW_004515916.1	scaffold446	12837	CC	TT	TT	INTERGENIC			
SNP_73485_A_12843	NW_004515916.1	scaffold446	12843	AA	GG	GG	INTERGENIC			
SNP_73487_A_12880	NW_004515916.1	scaffold446	12880	TT	AA	AA	INTERGENIC			
SNP_73488_A_13047	NW_004515916.1	scaffold446	13047	GG	TT	TT	INTERGENIC			
SNP_73489_A_13252	NW_004515916.1	scaffold446	13252	TT	AA	AA	INTERGENIC			
SNP_73490_A_13297	NW_004515916.1	scaffold446	13297	GG	AA	AA	INTERGENIC			
SNP_73491_A_13327	NW_004515916.1	scaffold446	13327	GG	AA	AA	INTERGENIC			
SNP_73492_A_13371	NW_004515916.1	scaffold446	13371	GG	AA	AA	INTERGENIC			
SNP_73493_A_13372	NW_004515916.1	scaffold446	13372	AA	TT	TT	INTERGENIC			
SNP_73494_A_14415	NW_004515916.1	scaffold446	14415	TT	CC	CC	INTERGENIC			
SNP_73495_A_34066	NW_004515916.1	scaffold446	34066	AA	GG	GG	INTERGENIC			
SNP_73496_A_34347	NW_004515916.1	scaffold446	34347	AA	GG	GG	INTERGENIC			
SNP_73497_A_36133	NW_004515916.1	scaffold446	36133	AA	GG	GG	INTERGENIC			
SNP_73498_A_36145	NW_004515916.1	scaffold446	36145	GG	TT	TT	INTERGENIC			
SNP_73499_A_50715	NW_004515916.1	scaffold446	50715	GG	AA	AA	INTERGENIC			
SNP_73500_A_65404	NW_004515916.1	scaffold446	65404	AA	GG	GG	INTERGENIC			
SNP_73501_A_65922	NW_004515916.1	scaffold446	65922	TT	GG	GG	INTERGENIC			
SNP_73502_A_65983	NW_004515916.1	scaffold446	65983	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73503_A_66049	NW_004515916.1	scaffold446	66049	CC	TT	TT	INTERGENIC			
SNP_73504_A_66066	NW_004515916.1	scaffold446	66066	TT	CC	CC	INTERGENIC			
SNP_73505_A_66127	NW_004515916.1	scaffold446	66127	TT	AA	AA	INTERGENIC			
SNP_73506_A_66134	NW_004515916.1	scaffold446	66134	TT	CC	CC	INTERGENIC			
SNP_73507_A_66181	NW_004515916.1	scaffold446	66181	AA	CC	CC	INTERGENIC			
SNP_73508_A_66211	NW_004515916.1	scaffold446	66211	AA	CC	CC	INTERGENIC			
SNP_73509_A_66222	NW_004515916.1	scaffold446	66222	CC	AA	AA	INTERGENIC			
SNP_73510_A_66249	NW_004515916.1	scaffold446	66249	TT	CC	CC	INTERGENIC			
SNP_73511_A_66259	NW_004515916.1	scaffold446	66259	AA	CC	CC	INTERGENIC			
SNP_73512_A_66275	NW_004515916.1	scaffold446	66275	TT	CC	CC	INTERGENIC			
SNP_73513_A_66385	NW_004515916.1	scaffold446	66385	CC	GG	GG	INTERGENIC			
SNP_73514_A_66435	NW_004515916.1	scaffold446	66435	GG	CC	CC	INTERGENIC			
SNP_73515_A_66510	NW_004515916.1	scaffold446	66510	CC	AA	AA	INTERGENIC			
SNP_73516_A_67629	NW_004515916.1	scaffold446	67629	CC	AA	AA	INTERGENIC			
SNP_73517_A_67638	NW_004515916.1	scaffold446	67638	CC	AA	AA	INTERGENIC			
SNP_73518_A_67709	NW_004515916.1	scaffold446	67709	GG	AA	AA	INTERGENIC			
SNP_73519_A_67730	NW_004515916.1	scaffold446	67730	CC	TT	TT	INTERGENIC			
SNP_73520_A_67731	NW_004515916.1	scaffold446	67731	AA	GG	GG	INTERGENIC			
SNP_73521_A_67774	NW_004515916.1	scaffold446	67774	TT	CC	CC	INTERGENIC			
SNP_73522_A_67848	NW_004515916.1	scaffold446	67848	AA	TT	TT	INTERGENIC			
SNP_73523_A_67862	NW_004515916.1	scaffold446	67862	AA	TT	TT	INTERGENIC			
SNP_73524_A_67874	NW_004515916.1	scaffold446	67874	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73525_A_67948	NW_004515916.1	scaffold446	67948	TT	AA	AA	INTERGENIC			
SNP_73526_A_67960	NW_004515916.1	scaffold446	67960	AA	TT	TT	INTERGENIC			
SNP_73527_A_67971	NW_004515916.1	scaffold446	67971	AA	TT	TT	INTERGENIC			
SNP_73528_A_67985	NW_004515916.1	scaffold446	67985	AA	TT	TT	INTERGENIC			
SNP_73529_A_68014	NW_004515916.1	scaffold446	68014	TT	AA	AA	INTERGENIC			
SNP_73530_A_68106	NW_004515916.1	scaffold446	68106	TT	AA	AA	INTERGENIC			
SNP_73531_A_68213	NW_004515916.1	scaffold446	68213	AA	TT	TT	INTERGENIC			
SNP_73532_A_68239	NW_004515916.1	scaffold446	68239	TT	CC	CC	INTERGENIC			
SNP_73533_A_77220	NW_004515916.1	scaffold446	77220	GG	AA	AA	INTERGENIC			
SNP_73534_A_77221	NW_004515916.1	scaffold446	77221	TT	GG	GG	INTERGENIC			
SNP_73535_A_79085	NW_004515916.1	scaffold446	79085	TT	GG	GG	INTERGENIC			
SNP_73536_A_80878	NW_004515916.1	scaffold446	80878	TT	CC	CC	INTERGENIC			
SNP_73537_A_81344	NW_004515916.1	scaffold446	81344	AA	CC	CC	INTERGENIC			
SNP_73538_A_82534	NW_004515916.1	scaffold446	82534	AA	CC	CC	INTERGENIC			
SNP_73539_A_88844	NW_004515916.1	scaffold446	88844	CC	TT	TT	INTERGENIC			
SNP_73540_A_88846	NW_004515916.1	scaffold446	88846	AA	GG	GG	INTERGENIC			
SNP_73541_A_92257	NW_004515916.1	scaffold446	92257	TT	CC	CC	INTERGENIC			
SNP_73542_A_94917	NW_004515916.1	scaffold446	94917	AA	GG	GG	INTERGENIC			
SNP_73543_A_95550	NW_004515916.1	scaffold446	95550	CC	TT	TT	INTERGENIC			
SNP_73544_A_99238	NW_004515916.1	scaffold446	99238	GG	AA	AA	INTERGENIC			
SNP_73545_A_99464	NW_004515916.1	scaffold446	99464	TT	AA	AA	INTERGENIC			
SNP_73546_A_99592	NW_004515916.1	scaffold446	99592	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73547_A_99684	NW_004515916.1	scaffold446	99684	TT	CC	GG	INTERGENIC			
SNP_73548_A_99748	NW_004515916.1	scaffold446	99748	AA	GG	GG	INTERGENIC			
SNP_73549_A_102615	NW_004515916.1	scaffold446	102615	GG	CC	CC	INTERGENIC			
SNP_73550_A_102715	NW_004515916.1	scaffold446	102715	AA	GG	GG	INTERGENIC			
SNP_73551_A_109650	NW_004515916.1	scaffold446	109650	GG	CC	CC	INTERGENIC			
SNP_73552_A_109831	NW_004515916.1	scaffold446	109831	TT	CC	CC	INTERGENIC			
SNP_73553_A_110343	NW_004515916.1	scaffold446	110343	AA	TT	TT	INTERGENIC			
SNP_73554_A_117980	NW_004515916.1	scaffold446	117980	GG	AA	AA	INTERGENIC			
SNP_73555_A_117998	NW_004515916.1	scaffold446	117998	TT	CC	CC	INTERGENIC			
SNP_73556_A_118907	NW_004515916.1	scaffold446	118907	AA	GG	GG	INTERGENIC			
SNP_73557_A_124912	NW_004515916.1	scaffold446	124912	GG	AA	AA	INTERGENIC			
SNP_73558_A_124928	NW_004515916.1	scaffold446	124928	TT	GG	GG	INTERGENIC			
SNP_73559_A_133667	NW_004515916.1	scaffold446	133667	GG	TT	TT	INTERGENIC			
SNP_73560_A_133701	NW_004515916.1	scaffold446	133701	AA	GG	GG	INTERGENIC			
SNP_73561_A_133807	NW_004515916.1	scaffold446	133807	TT	CC	CC	INTERGENIC			
SNP_73562_A_135790	NW_004515916.1	scaffold446	135790	TT	AA	AA	INTERGENIC			
SNP_73563_A_152340	NW_004515916.1	scaffold446	152340	AA	TT	TT	INTERGENIC			
SNP_73564_A_152453	NW_004515916.1	scaffold446	152453	CC	TT	TT	INTERGENIC			
SNP_73565_A_153752	NW_004515916.1	scaffold446	153752	CC	TT	TT	INTERGENIC			
SNP_73566_A_153794	NW_004515916.1	scaffold446	153794	TT	AA	AA	INTERGENIC			
SNP_73567_A_153830	NW_004515916.1	scaffold446	153830	CC	TT	TT	INTERGENIC			
SNP_73568_A_153836	NW_004515916.1	scaffold446	153836	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73569_A_156864	NW_004515916.1	scaffold446	156864	TT	CC	CC	INTERGENIC			
SNP_73570_A_156956	NW_004515916.1	scaffold446	156956	CC	TT	TT	INTERGENIC			
SNP_73571_A_157055	NW_004515916.1	scaffold446	157055	TT	GG	GG	INTERGENIC			
SNP_73572_A_157112	NW_004515916.1	scaffold446	157112	AA	TT	TT	INTERGENIC			
SNP_73573_A_157357	NW_004515916.1	scaffold446	157357	GG	AA	AA	INTERGENIC			
SNP_73575_A_157480	NW_004515916.1	scaffold446	157480	TT	CC	CC	INTERGENIC			
SNP_73576_A_161089	NW_004515916.1	scaffold446	161089	AA	GG	GG	INTERGENIC			
SNP_73577_A_161470	NW_004515916.1	scaffold446	161470	AA	GG	GG	INTERGENIC			
SNP_73578_A_161516	NW_004515916.1	scaffold446	161516	CC	TT	TT	INTERGENIC			
SNP_73579_A_161521	NW_004515916.1	scaffold446	161521	AA	TT	CC	INTERGENIC			
SNP_73580_A_163449	NW_004515916.1	scaffold446	163449	CC	TT	TT	INTERGENIC			
SNP_73581_A_163487	NW_004515916.1	scaffold446	163487	CC	TT	TT	INTERGENIC			
SNP_73582_A_163765	NW_004515916.1	scaffold446	163765	TT	GG	GG	INTERGENIC			
SNP_73583_A_163774	NW_004515916.1	scaffold446	163774	CC	TT	TT	INTERGENIC			
SNP_73584_A_163790	NW_004515916.1	scaffold446	163790	TT	CC	CC	INTERGENIC			
SNP_73585_A_163805	NW_004515916.1	scaffold446	163805	CC	TT	TT	INTERGENIC			
SNP_73586_A_163831	NW_004515916.1	scaffold446	163831	AA	GG	GG	INTERGENIC			
SNP_73587_A_163873	NW_004515916.1	scaffold446	163873	AA	GG	GG	INTERGENIC			
SNP_73588_A_163918	NW_004515916.1	scaffold446	163918	AA	GG	GG	INTERGENIC			
SNP_73589_A_164280	NW_004515916.1	scaffold446	164280	TT	CC	CC	INTERGENIC			
SNP_73590_A_164354	NW_004515916.1	scaffold446	164354	GG	TT	TT	INTERGENIC			
SNP_73591_A_164380	NW_004515916.1	scaffold446	164380	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73592_A_164387	NW_004515916.1	scaffold446	164387	TT	CC	CC	INTERGENIC			
SNP_73593_A_165203	NW_004515916.1	scaffold446	165203	AA	TT	TT	INTERGENIC			
SNP_73594_A_165600	NW_004515916.1	scaffold446	165600	TT	AA	AA	INTERGENIC			
SNP_73595_A_166749	NW_004515916.1	scaffold446	166749	AA	GG	GG	INTERGENIC			
SNP_73596_A_166789	NW_004515916.1	scaffold446	166789	TT	CC	CC	INTERGENIC			
SNP_73597_A_166815	NW_004515916.1	scaffold446	166815	AA	TT	TT	INTERGENIC			
SNP_73598_A_170540	NW_004515916.1	scaffold446	170540	AA	GG	GG	INTERGENIC			
SNP_73599_A_170542	NW_004515916.1	scaffold446	170542	TT	GG	GG	INTERGENIC			
SNP_73600_A_170550	NW_004515916.1	scaffold446	170550	AA	TT	TT	INTERGENIC			
SNP_73601_A_177487	NW_004515916.1	scaffold446	177487	GG	TT	TT	INTERGENIC			
SNP_73602_A_177500	NW_004515916.1	scaffold446	177500	TT	CC	CC	INTERGENIC			
SNP_73603_A_177530	NW_004515916.1	scaffold446	177530	GG	TT	TT	INTERGENIC			
SNP_73604_A_181379	NW_004515916.1	scaffold446	181379	TT	CC	CC	INTERGENIC			
SNP_73605_A_181380	NW_004515916.1	scaffold446	181380	AA	CC	CC	INTERGENIC			
SNP_73606_A_187262	NW_004515916.1	scaffold446	187262	GG	TT	TT	INTERGENIC			
SNP_73607_A_214744	NW_004515916.1	scaffold446	214744	CC	TT	TT	INTERGENIC			
SNP_73608_A_218989	NW_004515916.1	scaffold446	218989	GG	AA	AA	INTERGENIC			
SNP_73611_A_224882	NW_004515916.1	scaffold446	224882	TT	GG	GG	INTERGENIC			
SNP_73612_A_233316	NW_004515916.1	scaffold446	233316	AA	CC	CC	INTERGENIC			
SNP_73613_A_233320	NW_004515916.1	scaffold446	233320	AA	GG	GG	INTERGENIC			
SNP_73614_A_233353	NW_004515916.1	scaffold446	233353	CC	TT	TT	INTERGENIC			
SNP_73615_A_233375	NW_004515916.1	scaffold446	233375	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73616_A_233376	NW_004515916.1	scaffold446	233376	AA	GG	GG	INTERGENIC			
SNP_73617_A_233467	NW_004515916.1	scaffold446	233467	AA	GG	GG	INTERGENIC			
SNP_73618_A_233618	NW_004515916.1	scaffold446	233618	GG	AA	AA	INTERGENIC			
SNP_73619_A_233625	NW_004515916.1	scaffold446	233625	AA	GG	GG	INTERGENIC			
SNP_73620_A_233653	NW_004515916.1	scaffold446	233653	TT	CC	CC	INTERGENIC			
SNP_73621_A_233673	NW_004515916.1	scaffold446	233673	GG	AA	AA	INTERGENIC			
SNP_73622_A_235004	NW_004515916.1	scaffold446	235004	AA	TT	TT	INTERGENIC			
SNP_73623_A_235007	NW_004515916.1	scaffold446	235007	AA	TT	TT	INTERGENIC			
SNP_73624_A_235018	NW_004515916.1	scaffold446	235018	TT	CC	CC	INTERGENIC			
SNP_73626_A_245341	NW_004515916.1	scaffold446	245341	GG	TT	TT	INTERGENIC			
SNP_73627_A_245391	NW_004515916.1	scaffold446	245391	AA	GG	GG	INTERGENIC			
SNP_73628_A_250492	NW_004515916.1	scaffold446	250492	TT	AA	AA	INTERGENIC			
SNP_73629_A_250517	NW_004515916.1	scaffold446	250517	AA	GG	GG	INTERGENIC			
SNP_73630_A_250952	NW_004515916.1	scaffold446	250952	AA	GG	GG	INTERGENIC			
SNP_73631_A_267597	NW_004515916.1	scaffold446	267597	AA	GG	GG	INTERGENIC			
SNP_73632_A_273660	NW_004515916.1	scaffold446	273660	TT	AA	AA	INTERGENIC			
SNP_73634_A_92480	NW_004515917.1	scaffold450	92480	TT	CC	CC	INTERGENIC			
SNP_73635_A_107536	NW_004515917.1	scaffold450	107536	AA	GG	GG	INTERGENIC			
SNP_73637_A_128254	NW_004515917.1	scaffold450	128254	CC	GG	GG	INTERGENIC			
SNP_73638_A_129957	NW_004515917.1	scaffold450	129957	AA	CC	CC	INTERGENIC			
SNP_73639_A_129996	NW_004515917.1	scaffold450	129996	AA	TT	TT	INTERGENIC			
SNP_73641_A_133829	NW_004515917.1	scaffold450	133829	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73643_A_133883	NW_004515917.1	scaffold450	133883	TT	GG	GG	INTERGENIC			
SNP_73644_A_134006	NW_004515917.1	scaffold450	134006	AA	GG	GG	INTERGENIC			
SNP_73645_A_134024	NW_004515917.1	scaffold450	134024	AA	CC	CC	INTERGENIC			
SNP_73646_A_134051	NW_004515917.1	scaffold450	134051	AA	GG	GG	INTERGENIC			
SNP_73647_A_134367	NW_004515917.1	scaffold450	134367	TT	CC	CC	INTERGENIC			
SNP_73648_A_134368	NW_004515917.1	scaffold450	134368	GG	TT	TT	INTERGENIC			
SNP_73649_A_152961	NW_004515917.1	scaffold450	152961	TT	CC	CC	INTERGENIC			
SNP_73650_A_162200	NW_004515917.1	scaffold450	162200	GG	AA	AA	INTERGENIC			
SNP_73651_A_235459	NW_004515917.1	scaffold450	235459	CC	AA	AA	INTERGENIC			
SNP_73652_A_235811	NW_004515917.1	scaffold450	235811	AA	GG	GG	INTERGENIC			
SNP_73656_A_367157	NW_004515917.1	scaffold450	367157	AA	GG	GG	INTRON	101504779	endoplasmic reticulum-Golgi intermediate compartment protein 3-like	
SNP_73657_A_368992	NW_004515917.1	scaffold450	368992	GG	AA	AA	INTRON	101504779	endoplasmic reticulum-Golgi intermediate compartment protein 3-like	
SNP_73658_A_427885	NW_004515917.1	scaffold450	427885	TT	CC	CC	INTERGENIC			
SNP_73659_A_457218	NW_004515917.1	scaffold450	457218	GG	AA	AA	INTERGENIC			
SNP_73661_A_459117	NW_004515917.1	scaffold450	459117	TT	AA	AA	INTERGENIC			
SNP_73662_A_476131	NW_004515917.1	scaffold450	476131	AA	GG	GG	INTERGENIC			
SNP_73663_A_482331	NW_004515917.1	scaffold450	482331	CC	TT	TT	INTERGENIC			
SNP_73664_A_482361	NW_004515917.1	scaffold450	482361	GG	CC	CC	INTERGENIC			
SNP_73665_A_497825	NW_004515917.1	scaffold450	497825	TT	AA	AA	INTERGENIC			
SNP_73666_A_509727	NW_004515917.1	scaffold450	509727	TT	CC	CC	INTERGENIC			
SNP_73667_A_509740	NW_004515917.1	scaffold450	509740	AA	CC	CC	INTERGENIC			
SNP_73668_A_509829	NW_004515917.1	scaffold450	509829	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73669_A_509958	NW_004515917.1	scaffold450	509958	CC	TT	TT	INTERGENIC			
SNP_73670_A_509959	NW_004515917.1	scaffold450	509959	AA	GG	GG	INTERGENIC			
SNP_73671_A_510026	NW_004515917.1	scaffold450	510026	CC	TT	TT	INTERGENIC			
SNP_73672_A_510397	NW_004515917.1	scaffold450	510397	AA	GG	GG	INTERGENIC			
SNP_73673_A_510474	NW_004515917.1	scaffold450	510474	AA	TT	TT	INTERGENIC			
SNP_73674_A_510564	NW_004515917.1	scaffold450	510564	CC	GG	GG	INTERGENIC			
SNP_73675_A_510610	NW_004515917.1	scaffold450	510610	CC	GG	GG	INTERGENIC			
SNP_73676_A_513906	NW_004515917.1	scaffold450	513906	AA	TT	TT	INTERGENIC			
SNP_73677_A_515928	NW_004515917.1	scaffold450	515928	AA	GG	GG	INTERGENIC			
SNP_73678_A_515950	NW_004515917.1	scaffold450	515950	GG	AA	AA	INTERGENIC			
SNP_73679_A_515955	NW_004515917.1	scaffold450	515955	CC	AA	AA	INTERGENIC			
SNP_73680_A_517418	NW_004515917.1	scaffold450	517418	TT	AA	AA	INTERGENIC			
SNP_73681_A_517807	NW_004515917.1	scaffold450	517807	TT	CC	CC	INTERGENIC			
SNP_73682_A_518313	NW_004515917.1	scaffold450	518313	AA	CC	CC	INTERGENIC			
SNP_73683_A_518361	NW_004515917.1	scaffold450	518361	AA	CC	CC	INTERGENIC			
SNP_73684_A_518418	NW_004515917.1	scaffold450	518418	CC	TT	TT	INTERGENIC			
SNP_73685_A_518460	NW_004515917.1	scaffold450	518460	AA	GG	GG	INTERGENIC			
SNP_73686_A_518517	NW_004515917.1	scaffold450	518517	CC	AA	AA	INTERGENIC			
SNP_73687_A_518561	NW_004515917.1	scaffold450	518561	TT	CC	CC	INTERGENIC			
SNP_73688_A_518791	NW_004515917.1	scaffold450	518791	CC	TT	TT	INTERGENIC			
SNP_73689_A_518792	NW_004515917.1	scaffold450	518792	GG	AA	AA	INTERGENIC			
SNP_73690_A_1328	NW_004515918.1	scaffold451	1328	TT	CC	CC	INTRON		101512703	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73691_A_1716	NW_004515918.1	scaffold451	1716	AA	CC	CC	INTRON	101512703	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_73693_A_11190	NW_004515918.1	scaffold451	11190	TT	GG	GG	INTRON	101512703	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_73695_A_17649	NW_004515918.1	scaffold451	17649	CC	GG	GG	INTERGENIC		
SNP_73696_A_17683	NW_004515918.1	scaffold451	17683	CC	TT	TT	INTERGENIC		
SNP_73697_A_19210	NW_004515918.1	scaffold451	19210	AA	GG	GG	URR	101507372	uncharacterized LOC101507372
SNP_73698_A_19950	NW_004515918.1	scaffold451	19950	AA	TT	TT	URR	101507372	uncharacterized LOC101507372
SNP_73699_A_21267	NW_004515918.1	scaffold451	21267	AA	CC	CC	INTERGENIC		
SNP_73700_A_21281	NW_004515918.1	scaffold451	21281	AA	GG	GG	INTERGENIC		
SNP_73701_A_25103	NW_004515918.1	scaffold451	25103	TT	CC	CC	INTERGENIC		
SNP_73702_A_25315	NW_004515918.1	scaffold451	25315	TT	CC	CC	INTERGENIC		
SNP_73703_A_28622	NW_004515918.1	scaffold451	28622	GG	AA	AA	DRR	101513024	probable WRKY transcription factor 19
SNP_73706_A_61228	NW_004515918.1	scaffold451	61228	AA	CC	CC	INTERGENIC		
SNP_73707_A_65220	NW_004515918.1	scaffold451	65220	AA	GG	GG	INTERGENIC		
SNP_73708_A_65437	NW_004515918.1	scaffold451	65437	CC	TT	TT	INTERGENIC		
SNP_73709_A_65509	NW_004515918.1	scaffold451	65509	TT	GG	GG	INTERGENIC		
SNP_73710_A_74098	NW_004515918.1	scaffold451	74098	TT	CC	CC	INTERGENIC		
SNP_73711_A_74148	NW_004515918.1	scaffold451	74148	TT	CC	CC	INTERGENIC		
SNP_73712_A_77803	NW_004515918.1	scaffold451	77803	AA	GG	GG	INTERGENIC		
SNP_73713_A_77904	NW_004515918.1	scaffold451	77904	AA	GG	GG	INTERGENIC		
SNP_73714_A_78357	NW_004515918.1	scaffold451	78357	TT	CC	CC	INTERGENIC		
SNP_73715_A_111962	NW_004515918.1	scaffold451	111962	TT	AA	AA	INTERGENIC		
SNP_73716_A_111965	NW_004515918.1	scaffold451	111965	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73717_A_166394	NW_004515918.1	scaffold451	166394	CC	TT	TT	INTERGENIC		
SNP_73718_A_200755	NW_004515918.1	scaffold451	200755	TT	CC	CC	URR	101514989	uncharacterized LOC101514989
SNP_73720_A_238192	NW_004515918.1	scaffold451	238192	TT	GG	GG	INTERGENIC		
SNP_73721_A_241367	NW_004515918.1	scaffold451	241367	AA	TT	TT	INTERGENIC		
SNP_73722_A_247248	NW_004515918.1	scaffold451	247248	AA	GG	GG	INTERGENIC		
SNP_73723_A_247259	NW_004515918.1	scaffold451	247259	AA	TT	TT	INTERGENIC		
SNP_73725_A_326460	NW_004515918.1	scaffold451	326460	CC	TT	TT	INTERGENIC		
SNP_73726_A_326510	NW_004515918.1	scaffold451	326510	CC	TT	TT	INTERGENIC		
SNP_73727_A_326681	NW_004515918.1	scaffold451	326681	GG	TT	TT	INTERGENIC		
SNP_73728_A_326690	NW_004515918.1	scaffold451	326690	TT	GG	GG	INTERGENIC		
SNP_73729_A_326739	NW_004515918.1	scaffold451	326739	AA	GG	GG	INTERGENIC		
SNP_73730_A_326833	NW_004515918.1	scaffold451	326833	TT	CC	CC	INTERGENIC		
SNP_73731_A_334249	NW_004515918.1	scaffold451	334249	GG	AA	AA	INTERGENIC		
SNP_73732_A_349649	NW_004515918.1	scaffold451	349649	CC	AA	AA	INTERGENIC		
SNP_73733_A_349655	NW_004515918.1	scaffold451	349655	GG	TT	TT	INTERGENIC		
SNP_73734_A_349656	NW_004515918.1	scaffold451	349656	TT	AA	AA	INTERGENIC		
SNP_73735_A_349698	NW_004515918.1	scaffold451	349698	AA	GG	GG	INTERGENIC		
SNP_73736_A_390443	NW_004515918.1	scaffold451	390443	CC	TT	TT	INTERGENIC		
SNP_73737_A_390546	NW_004515918.1	scaffold451	390546	TT	CC	CC	INTERGENIC		
SNP_73738_A_390709	NW_004515918.1	scaffold451	390709	AA	CC	CC	INTERGENIC		
SNP_73739_A_464942	NW_004515918.1	scaffold451	464942	AA	TT	TT	INTRON	101512390	transcription factor HY5-like
SNP_73740_A_469893	NW_004515918.1	scaffold451	469893	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73741_A_491084	NW_004515918.1	scaffold451	491084	TT	CC	CC	INTERGENIC			
SNP_73742_A_491452	NW_004515918.1	scaffold451	491452	AA	GG	GG	INTERGENIC			
SNP_73743_A_509802	NW_004515918.1	scaffold451	509802	CC	TT	TT	INTERGENIC			
SNP_73744_A_519463	NW_004515918.1	scaffold451	519463	GG	AA	AA	INTERGENIC			
SNP_73745_A_4487	NW_004515919.1	scaffold452	4487	TT	AA	AA	INTERGENIC			
SNP_73746_A_4843	NW_004515919.1	scaffold452	4843	TT	CC	CC	INTERGENIC			
SNP_73747_A_7192	NW_004515919.1	scaffold452	7192	AA	CC	CC	INTERGENIC			
SNP_73748_A_7194	NW_004515919.1	scaffold452	7194	AA	GG	GG	INTERGENIC			
SNP_73749_A_7222	NW_004515919.1	scaffold452	7222	TT	CC	CC	INTERGENIC			
SNP_73750_A_4958	NW_004515920.1	scaffold453	4958	AA	GG	GG	INTERGENIC			
SNP_73751_A_4978	NW_004515920.1	scaffold453	4978	GG	AA	AA	INTERGENIC			
SNP_73752_A_20051	NW_004515920.1	scaffold453	20051	AA	CC	CC	INTERGENIC			
SNP_73753_A_20104	NW_004515920.1	scaffold453	20104	TT	GG	GG	INTERGENIC			
SNP_73754_A_20142	NW_004515920.1	scaffold453	20142	CC	AA	AA	INTERGENIC			
SNP_73755_A_20156	NW_004515920.1	scaffold453	20156	AA	GG	GG	INTERGENIC			
SNP_73756_A_20248	NW_004515920.1	scaffold453	20248	AA	CC	CC	INTERGENIC			
SNP_73757_A_20531	NW_004515920.1	scaffold453	20531	TT	CC	CC	INTERGENIC			
SNP_73758_A_76763	NW_004515920.1	scaffold453	76763	GG	AA	AA	INTERGENIC			
SNP_73760_A_79728	NW_004515920.1	scaffold453	79728	AA	CC	CC	INTERGENIC			
SNP_73762_A_80407	NW_004515920.1	scaffold453	80407	GG	AA	AA	INTERGENIC			
SNP_73763_A_80420	NW_004515920.1	scaffold453	80420	TT	CC	CC	INTERGENIC			
SNP_73764_A_107779	NW_004515920.1	scaffold453	107779	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73765_A_146605	NW_004515920.1	scaffold453	146605	TT	CC	CC	INTERGENIC		
SNP_73766_A_148678	NW_004515920.1	scaffold453	148678	CC	TT	TT	DRR	101492175	CO(2)-response secreted protease-like
SNP_73767_A_150892	NW_004515920.1	scaffold453	150892	AA	GG	GG	INTRON	101492175	CO(2)-response secreted protease-like
SNP_73768_A_168171	NW_004515920.1	scaffold453	168171	TT	CC	CC	INTERGENIC		
SNP_73769_A_267346	NW_004515920.1	scaffold453	267346	AA	GG	GG	INTERGENIC		
SNP_73771_A_296628	NW_004515920.1	scaffold453	296628	GG	TT	TT	INTERGENIC		
SNP_73772_A_314415	NW_004515920.1	scaffold453	314415	AA	GG	GG	INTERGENIC		
SNP_73773_A_338976	NW_004515920.1	scaffold453	338976	AA	GG	GG	INTERGENIC		
SNP_73774_A_338981	NW_004515920.1	scaffold453	338981	AA	CC	CC	INTERGENIC		
SNP_73775_A_385020	NW_004515920.1	scaffold453	385020	CC	GG	GG	INTERGENIC		
SNP_73776_A_385204	NW_004515920.1	scaffold453	385204	TT	CC	CC	INTERGENIC		
SNP_73777_A_386233	NW_004515920.1	scaffold453	386233	AA	GG	GG	INTERGENIC		
SNP_73778_A_386389	NW_004515920.1	scaffold453	386389	TT	CC	CC	INTERGENIC		
SNP_73779_A_386477	NW_004515920.1	scaffold453	386477	TT	CC	CC	INTERGENIC		
SNP_73780_A_398687	NW_004515920.1	scaffold453	398687	GG	TT	TT	INTERGENIC		
SNP_73781_A_401860	NW_004515920.1	scaffold453	401860	TT	CC	CC	INTERGENIC		
SNP_73782_A_401913	NW_004515920.1	scaffold453	401913	CC	TT	TT	INTERGENIC		
SNP_73783_A_401919	NW_004515920.1	scaffold453	401919	TT	AA	AA	INTERGENIC		
SNP_73784_A_436613	NW_004515920.1	scaffold453	436613	CC	TT	TT	DRR	101497381	Unknown function
SNP_73785_A_466877	NW_004515920.1	scaffold453	466877	CC	TT	TT	INTERGENIC		
SNP_73786_A_495074	NW_004515920.1	scaffold453	495074	GG	AA	AA	INTRON	101494567	SAC3 family protein 2
SNP_73787_A_495562	NW_004515920.1	scaffold453	495562	GG	AA	AA	INTRON	101494567	SAC3 family protein 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73788_A_496017	NW_004515920.1	scaffold453	496017	AA	GG	GG	SYNONYMOUS_CODING	101494567	SAC3 family protein 2
SNP_73790_A_497912	NW_004515920.1	scaffold453	497912	CC	TT	TT	URR	101494567	SAC3 family protein 2
SNP_73791_A_498568	NW_004515920.1	scaffold453	498568	GG	AA	AA	URR	101494567	SAC3 family protein 2
SNP_73792_A_498597	NW_004515920.1	scaffold453	498597	GG	AA	AA	URR	101494567	SAC3 family protein 2
SNP_73793_A_498704	NW_004515920.1	scaffold453	498704	CC	TT	TT	URR	101494567	SAC3 family protein 2
SNP_73795_A_500811	NW_004515920.1	scaffold453	500811	AA	TT	TT	INTERGENIC		
SNP_73796_A_500828	NW_004515920.1	scaffold453	500828	TT	AA	AA	INTERGENIC		
SNP_73797_A_501823	NW_004515920.1	scaffold453	501823	TT	AA	AA	INTERGENIC		
SNP_73798_A_501839	NW_004515920.1	scaffold453	501839	TT	CC	CC	INTERGENIC		
SNP_73799_A_503019	NW_004515920.1	scaffold453	503019	AA	GG	GG	INTERGENIC		
SNP_73800_A_503064	NW_004515920.1	scaffold453	503064	CC	TT	TT	INTERGENIC		
SNP_73802_A_503744	NW_004515920.1	scaffold453	503744	CC	TT	TT	INTERGENIC		
SNP_73803_A_503919	NW_004515920.1	scaffold453	503919	CC	TT	TT	INTERGENIC		
SNP_73805_A_526247	NW_004515920.1	scaffold453	526247	CC	TT	TT	INTERGENIC		
SNP_73806_A_526268	NW_004515920.1	scaffold453	526268	CC	TT	TT	INTERGENIC		
SNP_73807_A_526592	NW_004515920.1	scaffold453	526592	TT	CC	CC	INTERGENIC		
SNP_73808_A_907	NW_004515921.1	scaffold454	907	AA	CC	CC	INTERGENIC		
SNP_73809_A_3553	NW_004515921.1	scaffold454	3553	CC	TT	TT	INTERGENIC		
SNP_73810_A_3569	NW_004515921.1	scaffold454	3569	CC	TT	TT	INTERGENIC		
SNP_73811_A_4084	NW_004515921.1	scaffold454	4084	TT	GG	GG	INTERGENIC		
SNP_73812_A_3957	NW_004515926.1	scaffold461	3957	AA	GG	GG	INTERGENIC		
SNP_73813_A_5456	NW_004515926.1	scaffold461	5456	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73814_A_22619	NW_004515926.1	scaffold461	22619	TT	CC	CC	INTERGENIC			
SNP_73815_A_22886	NW_004515926.1	scaffold461	22886	TT	CC	CC	INTERGENIC			
SNP_73816_A_22894	NW_004515926.1	scaffold461	22894	TT	CC	CC	INTERGENIC			
SNP_73817_A_22896	NW_004515926.1	scaffold461	22896	CC	TT	TT	INTERGENIC			
SNP_73818_A_22992	NW_004515926.1	scaffold461	22992	CC	TT	TT	INTERGENIC			
SNP_73819_A_23018	NW_004515926.1	scaffold461	23018	TT	GG	GG	INTERGENIC			
SNP_73820_A_23019	NW_004515926.1	scaffold461	23019	GG	AA	AA	INTERGENIC			
SNP_73821_A_23020	NW_004515926.1	scaffold461	23020	GG	AA	AA	INTERGENIC			
SNP_73822_A_26170	NW_004515926.1	scaffold461	26170	CC	TT	TT	INTERGENIC			
SNP_73823_A_26269	NW_004515926.1	scaffold461	26269	TT	AA	AA	INTERGENIC			
SNP_73825_A_26325	NW_004515926.1	scaffold461	26325	TT	GG	GG	INTERGENIC			
SNP_73826_A_26393	NW_004515926.1	scaffold461	26393	AA	TT	TT	INTERGENIC			
SNP_73827_A_12370	NW_004515929.1	scaffold465	12370	TT	AA	AA	INTERGENIC			
SNP_73828_A_548	NW_004515930.1	scaffold466	548	GG	TT	TT	INTERGENIC			
SNP_73829_A_552	NW_004515930.1	scaffold466	552	AA	GG	GG	INTERGENIC			
SNP_73830_A_614	NW_004515930.1	scaffold466	614	GG	CC	CC	INTERGENIC			
SNP_73831_A_631	NW_004515930.1	scaffold466	631	TT	GG	GG	INTERGENIC			
SNP_73833_A_12183	NW_004515930.1	scaffold466	12183	GG	AA	AA	INTERGENIC			
SNP_73834_A_12218	NW_004515930.1	scaffold466	12218	GG	AA	AA	INTERGENIC			
SNP_73835_A_12553	NW_004515930.1	scaffold466	12553	TT	CC	CC	INTERGENIC			
SNP_73836_A_18803	NW_004515930.1	scaffold466	18803	TT	CC	CC	INTERGENIC			
SNP_73837_A_30423	NW_004515930.1	scaffold466	30423	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73838_A_38987	NW_004515930.1	scaffold466	38987	AA	GG	GG	INTERGENIC		
SNP_73839_A_66245	NW_004515930.1	scaffold466	66245	CC	TT	TT	INTERGENIC		
SNP_73840_A_66679	NW_004515930.1	scaffold466	66679	CC	AA	AA	INTERGENIC		
SNP_73841_A_78077	NW_004515930.1	scaffold466	78077	GG	AA	AA	INTERGENIC		
SNP_73842_A_111065	NW_004515930.1	scaffold466	111065	CC	AA	AA	INTERGENIC		
SNP_73843_A_132776	NW_004515930.1	scaffold466	132776	GG	AA	AA	INTRON	101499663	Unknown function
SNP_73844_A_133213	NW_004515930.1	scaffold466	133213	TT	AA	AA	INTRON	101499663	Unknown function
SNP_73845_A_133491	NW_004515930.1	scaffold466	133491	CC	TT	TT	INTRON	101499663	Unknown function
SNP_73846_A_133555	NW_004515930.1	scaffold466	133555	AA	GG	GG	INTRON	101499663	Unknown function
SNP_73847_A_164074	NW_004515930.1	scaffold466	164074	TT	AA	AA	DRR	101499967	Unknown function
SNP_73848_A_164081	NW_004515930.1	scaffold466	164081	TT	CC	CC	DRR	101499967	Unknown function
SNP_73849_A_164094	NW_004515930.1	scaffold466	164094	TT	CC	CC	DRR	101499967	Unknown function
SNP_73850_A_164106	NW_004515930.1	scaffold466	164106	AA	GG	GG	DRR	101499967	Unknown function
SNP_73851_A_164353	NW_004515930.1	scaffold466	164353	CC	GG	GG	DRR	101499967	Unknown function
SNP_73852_A_164358	NW_004515930.1	scaffold466	164358	TT	GG	GG	DRR	101499967	Unknown function
SNP_73853_A_164381	NW_004515930.1	scaffold466	164381	AA	GG	GG	DRR	101499967	Unknown function
SNP_73854_A_164387	NW_004515930.1	scaffold466	164387	AA	GG	GG	DRR	101499967	Unknown function
SNP_73855_A_164398	NW_004515930.1	scaffold466	164398	AA	GG	GG	DRR	101499967	Unknown function
SNP_73856_A_164410	NW_004515930.1	scaffold466	164410	AA	GG	GG	DRR	101499967	Unknown function
SNP_73857_A_164417	NW_004515930.1	scaffold466	164417	TT	CC	CC	DRR	101499967	Unknown function
SNP_73858_A_164575	NW_004515930.1	scaffold466	164575	TT	CC	CC	DRR	101499967	Unknown function
SNP_73859_A_164591	NW_004515930.1	scaffold466	164591	AA	GG	GG	DRR	101499967	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73860_A_164597	NW_004515930.1	scaffold466	164597	TT	CC	CC	DRR	101499967	Unknown function
SNP_73861_A_164716	NW_004515930.1	scaffold466	164716	AA	CC	CC	DRR	101499967	Unknown function
SNP_73862_A_164823	NW_004515930.1	scaffold466	164823	CC	TT	TT	DRR	101499967	Unknown function
SNP_73863_A_165681	NW_004515930.1	scaffold466	165681	CC	TT	TT	URR	101499350	Unknown function
SNP_73864_A_165695	NW_004515930.1	scaffold466	165695	AA	CC	CC	URR	101499350	Unknown function
SNP_73865_A_165780	NW_004515930.1	scaffold466	165780	TT	CC	CC	URR	101499350	Unknown function
SNP_73866_A_165844	NW_004515930.1	scaffold466	165844	TT	CC	CC	URR	101499350	Unknown function
SNP_73867_A_166006	NW_004515930.1	scaffold466	166006	TT	CC	CC	URR	101499350	Unknown function
SNP_73868_A_166114	NW_004515930.1	scaffold466	166114	AA	GG	GG	URR	101499350	Unknown function
SNP_73869_A_166211	NW_004515930.1	scaffold466	166211	CC	TT	TT	URR	101499967	Unknown function
SNP_73870_A_166248	NW_004515930.1	scaffold466	166248	TT	CC	CC	URR	101499967	Unknown function
SNP_73871_A_166249	NW_004515930.1	scaffold466	166249	GG	CC	CC	URR	101499967	Unknown function
SNP_73872_A_166266	NW_004515930.1	scaffold466	166266	AA	GG	GG	URR	101499967	Unknown function
SNP_73873_A_166788	NW_004515930.1	scaffold466	166788	TT	CC	CC	URR	101499967	Unknown function
SNP_73874_A_166792	NW_004515930.1	scaffold466	166792	AA	GG	GG	URR	101499967	Unknown function
SNP_73875_A_166986	NW_004515930.1	scaffold466	166986	TT	CC	CC	URR	101499967	Unknown function
SNP_73877_A_169636	NW_004515930.1	scaffold466	169636	GG	CC	CC	INTERGENIC		
SNP_73878_A_169640	NW_004515930.1	scaffold466	169640	TT	AA	AA	INTERGENIC		
SNP_73879_A_169652	NW_004515930.1	scaffold466	169652	TT	AA	AA	INTERGENIC		
SNP_73880_A_169680	NW_004515930.1	scaffold466	169680	AA	GG	GG	INTERGENIC		
SNP_73882_A_169767	NW_004515930.1	scaffold466	169767	TT	CC	CC	INTERGENIC		
SNP_73883_A_169819	NW_004515930.1	scaffold466	169819	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73884_A_169820	NW_004515930.1	scaffold466	169820	TT	AA	AA	INTERGENIC		
SNP_73885_A_169821	NW_004515930.1	scaffold466	169821	AA	CC	CC	INTERGENIC		
SNP_73886_A_169830	NW_004515930.1	scaffold466	169830	AA	GG	GG	INTERGENIC		
SNP_73887_A_169831	NW_004515930.1	scaffold466	169831	AA	GG	GG	INTERGENIC		
SNP_73888_A_169835	NW_004515930.1	scaffold466	169835	TT	GG	GG	INTERGENIC		
SNP_73889_A_169836	NW_004515930.1	scaffold466	169836	TT	CC	CC	INTERGENIC		
SNP_73890_A_169841	NW_004515930.1	scaffold466	169841	AA	GG	GG	INTERGENIC		
SNP_73891_A_169852	NW_004515930.1	scaffold466	169852	AA	GG	GG	INTERGENIC		
SNP_73892_A_169856	NW_004515930.1	scaffold466	169856	AA	CC	CC	INTERGENIC		
SNP_73893_A_169875	NW_004515930.1	scaffold466	169875	AA	GG	GG	INTERGENIC		
SNP_73894_A_169933	NW_004515930.1	scaffold466	169933	GG	TT	TT	INTERGENIC		
SNP_73895_A_169974	NW_004515930.1	scaffold466	169974	TT	CC	CC	INTERGENIC		
SNP_73897_A_171285	NW_004515930.1	scaffold466	171285	AA	GG	GG	SYNONYMOUS_CODING	id201638	Unknown function
SNP_73898_A_171289	NW_004515930.1	scaffold466	171289	TT	CC	CC	NON_SYNONYMOUS_CODING	id201638	Unknown function
SNP_73899_A_171305	NW_004515930.1	scaffold466	171305	AA	GG	GG	NON_SYNONYMOUS_CODING	id201638	Unknown function
SNP_73900_A_171333	NW_004515930.1	scaffold466	171333	AA	GG	GG	SYNONYMOUS_CODING	id201638	Unknown function
SNP_73901_A_171347	NW_004515930.1	scaffold466	171347	GG	AA	AA	NON_SYNONYMOUS_CODING	id201638	Unknown function
SNP_73902_A_171350	NW_004515930.1	scaffold466	171350	TT	AA	AA	NON_SYNONYMOUS_CODING	id201638	Unknown function
SNP_73903_A_171363	NW_004515930.1	scaffold466	171363	GG	CC	CC	SYNONYMOUS_CODING	id201638	Unknown function
SNP_73904_A_171480	NW_004515930.1	scaffold466	171480	AA	CC	CC	INTRON	id201638	Unknown function
SNP_73905_A_171484	NW_004515930.1	scaffold466	171484	AA	GG	GG	INTRON	id201638	Unknown function
SNP_73906_A_190268	NW_004515930.1	scaffold466	190268	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73907_A_190278	NW_004515930.1	scaffold466	190278	CC	TT	TT	INTERGENIC			
SNP_73908_A_211926	NW_004515930.1	scaffold466	211926	CC	GG	GG	INTERGENIC			
SNP_73909_A_212210	NW_004515930.1	scaffold466	212210	GG	AA	AA	INTERGENIC			
SNP_73910_A_212218	NW_004515930.1	scaffold466	212218	GG	AA	AA	INTERGENIC			
SNP_73911_A_212228	NW_004515930.1	scaffold466	212228	AA	GG	GG	INTERGENIC			
SNP_73912_A_241851	NW_004515930.1	scaffold466	241851	GG	TT	TT	INTERGENIC			
SNP_73913_A_242937	NW_004515930.1	scaffold466	242937	AA	GG	GG	INTERGENIC			
SNP_73914_A_254235	NW_004515930.1	scaffold466	254235	GG	AA	AA	INTERGENIC			
SNP_73915_A_254285	NW_004515930.1	scaffold466	254285	AA	TT	TT	INTERGENIC			
SNP_73917_A_254315	NW_004515930.1	scaffold466	254315	AA	TT	TT	INTERGENIC			
SNP_73918_A_254368	NW_004515930.1	scaffold466	254368	AA	GG	GG	INTERGENIC			
SNP_73919_A_271024	NW_004515930.1	scaffold466	271024	TT	AA	AA	INTERGENIC			
SNP_73920_A_278840	NW_004515930.1	scaffold466	278840	TT	GG	GG	INTERGENIC			
SNP_73921_A_281522	NW_004515930.1	scaffold466	281522	AA	GG	GG	INTERGENIC			
SNP_73922_A_292880	NW_004515930.1	scaffold466	292880	GG	AA	AA	INTERGENIC			
SNP_73923_A_292899	NW_004515930.1	scaffold466	292899	AA	GG	GG	INTERGENIC			
SNP_73924_A_3452	NW_004515931.1	scaffold467	3452	AA	TT	TT	INTERGENIC			
SNP_73926_A_18417	NW_004515932.1	scaffold469	18417	CC	AA	AA	INTERGENIC			
SNP_73927_A_18553	NW_004515932.1	scaffold469	18553	GG	AA	AA	INTERGENIC			
SNP_73928_A_18597	NW_004515932.1	scaffold469	18597	AA	TT	TT	INTERGENIC			
SNP_73929_A_19339	NW_004515932.1	scaffold469	19339	AA	GG	GG	INTERGENIC			
SNP_73930_A_19341	NW_004515932.1	scaffold469	19341	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73931_A_19376	NW_004515932.1	scaffold469	19376	AA	TT	TT	INTERGENIC		
SNP_73932_A_22079	NW_004515932.1	scaffold469	22079	TT	GG	GG	INTERGENIC		
SNP_73933_A_49156	NW_004515932.1	scaffold469	49156	AA	CC	CC	INTERGENIC		
SNP_73934_A_77552	NW_004515932.1	scaffold469	77552	AA	GG	GG	INTERGENIC		
SNP_73935_A_193258	NW_004515932.1	scaffold469	193258	TT	CC	CC	INTERGENIC		
SNP_73936_A_208019	NW_004515932.1	scaffold469	208019	CC	TT	TT	INTERGENIC		
SNP_73937_A_208315	NW_004515932.1	scaffold469	208315	AA	CC	CC	INTERGENIC		
SNP_73938_A_219462	NW_004515932.1	scaffold469	219462	TT	CC	CC	INTERGENIC		
SNP_73939_A_220199	NW_004515932.1	scaffold469	220199	TT	AA	AA	INTERGENIC		
SNP_73940_A_222747	NW_004515932.1	scaffold469	222747	GG	TT	TT	INTERGENIC		
SNP_73941_A_4290	NW_004515933.1	scaffold470	4290	GG	TT	TT	INTERGENIC		
SNP_73942_A_31754	NW_004515933.1	scaffold470	31754	TT	CC	CC	NON_SYNONYMOUS_CODING	101504681	uncharacterized LOC101504681
SNP_73943_A_42718	NW_004515933.1	scaffold470	42718	GG	AA	AA	INTERGENIC		
SNP_73944_A_42978	NW_004515933.1	scaffold470	42978	TT	AA	AA	INTERGENIC		
SNP_73945_A_43228	NW_004515933.1	scaffold470	43228	AA	GG	GG	INTERGENIC		
SNP_73946_A_45989	NW_004515933.1	scaffold470	45989	TT	CC	CC	INTERGENIC		
SNP_73947_A_45990	NW_004515933.1	scaffold470	45990	TT	CC	CC	INTERGENIC		
SNP_73948_A_46004	NW_004515933.1	scaffold470	46004	GG	TT	TT	INTERGENIC		
SNP_73949_A_126335	NW_004515933.1	scaffold470	126335	GG	TT	TT	INTERGENIC		
SNP_73950_A_128098	NW_004515933.1	scaffold470	128098	AA	GG	GG	INTERGENIC		
SNP_73952_A_185956	NW_004515933.1	scaffold470	185956	AA	TT	TT	INTERGENIC		
SNP_73953_A_186026	NW_004515933.1	scaffold470	186026	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_73954_A_186805	NW_004515933.1	scaffold470	186805	TT	AA	AA	INTERGENIC			
SNP_73955_A_287604	NW_004515933.1	scaffold470	287604	AA	GG	GG	INTERGENIC			
SNP_73956_A_287644	NW_004515933.1	scaffold470	287644	AA	CC	CC	INTERGENIC			
SNP_73957_A_287863	NW_004515933.1	scaffold470	287863	GG	TT	TT	INTERGENIC			
SNP_73958_A_288916	NW_004515933.1	scaffold470	288916	CC	TT	TT	INTERGENIC			
SNP_73960_A_321637	NW_004515933.1	scaffold470	321637	TT	GG	GG	INTERGENIC			
SNP_73961_A_321728	NW_004515933.1	scaffold470	321728	AA	GG	GG	INTERGENIC			
SNP_73962_A_321981	NW_004515933.1	scaffold470	321981	AA	GG	GG	INTERGENIC			
SNP_73963_A_322009	NW_004515933.1	scaffold470	322009	AA	TT	TT	INTERGENIC			
SNP_73964_A_322010	NW_004515933.1	scaffold470	322010	AA	CC	CC	INTERGENIC			
SNP_73965_A_322020	NW_004515933.1	scaffold470	322020	CC	TT	TT	INTERGENIC			
SNP_73966_A_322037	NW_004515933.1	scaffold470	322037	TT	AA	AA	INTERGENIC			
SNP_73967_A_322115	NW_004515933.1	scaffold470	322115	AA	GG	GG	INTERGENIC			
SNP_73968_A_336035	NW_004515933.1	scaffold470	336035	CC	TT	TT	INTERGENIC			
SNP_73969_A_336075	NW_004515933.1	scaffold470	336075	TT	CC	CC	INTERGENIC			
SNP_73970_A_336090	NW_004515933.1	scaffold470	336090	GG	AA	AA	INTERGENIC			
SNP_73971_A_336106	NW_004515933.1	scaffold470	336106	GG	AA	AA	INTERGENIC			
SNP_73972_A_336119	NW_004515933.1	scaffold470	336119	AA	TT	TT	INTERGENIC			
SNP_73973_A_336127	NW_004515933.1	scaffold470	336127	CC	TT	TT	INTERGENIC			
SNP_73974_A_336172	NW_004515933.1	scaffold470	336172	CC	TT	TT	INTERGENIC			
SNP_73975_A_336193	NW_004515933.1	scaffold470	336193	AA	TT	TT	INTERGENIC			
SNP_73976_A_336208	NW_004515933.1	scaffold470	336208	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_73977_A_336246	NW_004515933.1	scaffold470	336246	AA	TT	TT	INTERGENIC		
SNP_73978_A_336252	NW_004515933.1	scaffold470	336252	AA	TT	TT	INTERGENIC		
SNP_73980_A_336375	NW_004515933.1	scaffold470	336375	GG	TT	TT	INTERGENIC		
SNP_73981_A_336393	NW_004515933.1	scaffold470	336393	AA	TT	TT	INTERGENIC		
SNP_73982_A_336417	NW_004515933.1	scaffold470	336417	TT	AA	AA	INTERGENIC		
SNP_73983_A_336450	NW_004515933.1	scaffold470	336450	TT	CC	CC	INTERGENIC		
SNP_73984_A_336559	NW_004515933.1	scaffold470	336559	GG	AA	AA	INTERGENIC		
SNP_73985_A_336560	NW_004515933.1	scaffold470	336560	AA	TT	TT	INTERGENIC		
SNP_73986_A_336672	NW_004515933.1	scaffold470	336672	GG	AA	AA	INTERGENIC		
SNP_73987_A_337671	NW_004515933.1	scaffold470	337671	GG	AA	AA	INTERGENIC		
SNP_73988_A_337674	NW_004515933.1	scaffold470	337674	GG	AA	AA	INTERGENIC		
SNP_73989_A_340070	NW_004515933.1	scaffold470	340070	AA	TT	TT	INTERGENIC		
SNP_73990_A_348242	NW_004515933.1	scaffold470	348242	CC	AA	AA	INTERGENIC		
SNP_73991_A_348445	NW_004515933.1	scaffold470	348445	AA	GG	GG	INTERGENIC		
SNP_73992_A_348475	NW_004515933.1	scaffold470	348475	AA	CC	CC	INTERGENIC		
SNP_73993_A_348637	NW_004515933.1	scaffold470	348637	AA	TT	TT	INTERGENIC		
SNP_73994_A_348713	NW_004515933.1	scaffold470	348713	AA	CC	CC	INTERGENIC		
SNP_73995_A_349186	NW_004515933.1	scaffold470	349186	TT	GG	GG	INTERGENIC		
SNP_73996_A_349488	NW_004515933.1	scaffold470	349488	TT	CC	CC	INTERGENIC		
SNP_73998_A_368685	NW_004515933.1	scaffold470	368685	GG	AA	AA	INTRON	101506606	uncharacterized LOC101506606
SNP_73999_A_369179	NW_004515933.1	scaffold470	369179	TT	GG	GG	INTRON	101506606	uncharacterized LOC101506606
SNP_74000_A_369250	NW_004515933.1	scaffold470	369250	TT	CC	CC	INTRON	101506606	uncharacterized LOC101506606

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74001_A_369656	NW_004515933.1	scaffold470	369656	TT	GG	GG	INTRON	101506606	uncharacterized LOC101506606
SNP_74002_A_370461	NW_004515933.1	scaffold470	370461	CC	TT	TT	INTRON	101506606	uncharacterized LOC101506606
SNP_74003_A_370478	NW_004515933.1	scaffold470	370478	GG	AA	AA	INTRON	101506606	uncharacterized LOC101506606
SNP_74004_A_370639	NW_004515933.1	scaffold470	370639	GG	AA	AA	INTRON	101506606	uncharacterized LOC101506606
SNP_74006_A_370833	NW_004515933.1	scaffold470	370833	AA	GG	GG	INTRON	101506606	uncharacterized LOC101506606
SNP_74007_A_370908	NW_004515933.1	scaffold470	370908	AA	TT	TT	INTRON	101506606	uncharacterized LOC101506606
SNP_74008_A_372122	NW_004515933.1	scaffold470	372122	CC	AA	AA	URR	101506606	uncharacterized LOC101506606
SNP_74009_A_372188	NW_004515933.1	scaffold470	372188	CC	TT	TT	URR	101506606	uncharacterized LOC101506606
SNP_74010_A_372246	NW_004515933.1	scaffold470	372246	TT	CC	CC	URR	101506606	uncharacterized LOC101506606
SNP_74011_A_372407	NW_004515933.1	scaffold470	372407	CC	TT	TT	URR	101506606	uncharacterized LOC101506606
SNP_74012_A_372610	NW_004515933.1	scaffold470	372610	CC	TT	TT	URR	101506606	uncharacterized LOC101506606
SNP_74014_A_372805	NW_004515933.1	scaffold470	372805	CC	TT	TT	URR	101506606	uncharacterized LOC101506606
SNP_74015_A_373041	NW_004515933.1	scaffold470	373041	TT	CC	CC	URR	101506606	uncharacterized LOC101506606
SNP_74016_A_373101	NW_004515933.1	scaffold470	373101	TT	GG	GG	URR	101506606	uncharacterized LOC101506606
SNP_74017_A_373103	NW_004515933.1	scaffold470	373103	TT	AA	AA	URR	101506606	uncharacterized LOC101506606
SNP_74018_A_373290	NW_004515933.1	scaffold470	373290	CC	GG	GG	INTERGENIC		
SNP_74019_A_373578	NW_004515933.1	scaffold470	373578	AA	CC	CC	INTERGENIC		
SNP_74020_A_373971	NW_004515933.1	scaffold470	373971	TT	CC	CC	INTERGENIC		
SNP_74021_A_374262	NW_004515933.1	scaffold470	374262	CC	AA	AA	INTERGENIC		
SNP_74022_A_374414	NW_004515933.1	scaffold470	374414	CC	TT	TT	INTERGENIC		
SNP_74024_A_377042	NW_004515933.1	scaffold470	377042	CC	TT	TT	INTERGENIC		
SNP_74025_A_377105	NW_004515933.1	scaffold470	377105	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74026_A_377536	NW_004515933.1	scaffold470	377536	GG	AA	AA	INTERGENIC		
SNP_74027_A_377631	NW_004515933.1	scaffold470	377631	GG	TT	TT	INTERGENIC		
SNP_74028_A_377812	NW_004515933.1	scaffold470	377812	CC	TT	TT	INTERGENIC		
SNP_74029_A_380037	NW_004515933.1	scaffold470	380037	CC	TT	TT	INTERGENIC		
SNP_74030_A_382476	NW_004515933.1	scaffold470	382476	AA	TT	TT	INTERGENIC		
SNP_74031_A_383895	NW_004515933.1	scaffold470	383895	GG	CC	CC	NON_SYNONYMOUS_CODING	101507265	uncharacterized LOC101507265
SNP_74032_A_385999	NW_004515933.1	scaffold470	385999	CC	TT	TT	URR	101507265	uncharacterized LOC101507265
SNP_74033_A_386302	NW_004515933.1	scaffold470	386302	TT	CC	CC	INTERGENIC		
SNP_74034_A_387140	NW_004515933.1	scaffold470	387140	GG	AA	AA	INTERGENIC		
SNP_74035_A_389700	NW_004515933.1	scaffold470	389700	TT	CC	CC	INTERGENIC		
SNP_74036_A_389750	NW_004515933.1	scaffold470	389750	TT	GG	GG	INTERGENIC		
SNP_74037_A_389794	NW_004515933.1	scaffold470	389794	TT	CC	CC	INTERGENIC		
SNP_74038_A_390002	NW_004515933.1	scaffold470	390002	CC	TT	TT	INTERGENIC		
SNP_74039_A_390093	NW_004515933.1	scaffold470	390093	GG	CC	CC	INTERGENIC		
SNP_74040_A_5883	NW_004515935.1	scaffold473	5883	CC	GG	GG	INTERGENIC		
SNP_74041_A_6306	NW_004515935.1	scaffold473	6306	AA	GG	GG	INTERGENIC		
SNP_74042_A_6328	NW_004515935.1	scaffold473	6328	CC	AA	AA	INTERGENIC		
SNP_74043_A_6335	NW_004515935.1	scaffold473	6335	AA	GG	GG	INTERGENIC		
SNP_74044_A_6397	NW_004515935.1	scaffold473	6397	CC	TT	TT	INTERGENIC		
SNP_74045_A_12705	NW_004515935.1	scaffold473	12705	AA	TT	TT	DRR	101508204	probable methyltransferase PMT19
SNP_74046_A_12843	NW_004515935.1	scaffold473	12843	TT	GG	GG	DRR	101508204	probable methyltransferase PMT19
SNP_74047_A_12871	NW_004515935.1	scaffold473	12871	GG	AA	AA	DRR	101508204	probable methyltransferase PMT19

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74048_A_12918	NW_004515935.1	scaffold473	12918	GG	TT	TT	NON_SYNONYMOUS_CODING	101508204	probable methyltransferase PMT19
SNP_74049_A_12997	NW_004515935.1	scaffold473	12997	GG	CC	CC	NON_SYNONYMOUS_CODING	101508204	probable methyltransferase PMT19
SNP_74050_A_13092	NW_004515935.1	scaffold473	13092	AA	GG	GG	SYNONYMOUS_CODING	101508204	probable methyltransferase PMT19
SNP_74051_A_13098	NW_004515935.1	scaffold473	13098	AA	TT	TT	SYNONYMOUS_CODING	101508204	probable methyltransferase PMT19
SNP_74052_A_13099	NW_004515935.1	scaffold473	13099	CC	GG	GG	NON_SYNONYMOUS_CODING	101508204	probable methyltransferase PMT19
SNP_74053_A_13215	NW_004515935.1	scaffold473	13215	TT	AA	AA	INTRON	101508204	probable methyltransferase PMT19
SNP_74054_A_13253	NW_004515935.1	scaffold473	13253	AA	CC	CC	INTRON	101508204	probable methyltransferase PMT19
SNP_74055_A_13323	NW_004515935.1	scaffold473	13323	AA	GG	GG	INTRON	101508204	probable methyltransferase PMT19
SNP_74056_A_13331	NW_004515935.1	scaffold473	13331	AA	GG	GG	INTRON	101508204	probable methyltransferase PMT19
SNP_74057_A_30356	NW_004515935.1	scaffold473	30356	GG	TT	TT	INTRON	101507893	superkiller viralicidic activity 2-like 2
SNP_74058_A_9858	NW_004515936.1	scaffold475	9858	CC	TT	TT	INTERGENIC		
SNP_74059_A_13937	NW_004515936.1	scaffold475	13937	GG	AA	AA	INTERGENIC		
SNP_74060_A_20221	NW_004515936.1	scaffold475	20221	TT	CC	CC	INTERGENIC		
SNP_74061_A_20255	NW_004515936.1	scaffold475	20255	AA	GG	GG	INTERGENIC		
SNP_74062_A_23137	NW_004515936.1	scaffold475	23137	AA	GG	GG	INTERGENIC		
SNP_74063_A_23138	NW_004515936.1	scaffold475	23138	AA	GG	GG	INTERGENIC		
SNP_74064_A_36513	NW_004515936.1	scaffold475	36513	AA	TT	TT	INTERGENIC		
SNP_74065_A_36713	NW_004515936.1	scaffold475	36713	AA	CC	CC	INTERGENIC		
SNP_74066_A_36714	NW_004515936.1	scaffold475	36714	TT	CC	CC	INTERGENIC		
SNP_74067_A_36715	NW_004515936.1	scaffold475	36715	GG	AA	AA	INTERGENIC		
SNP_74068_A_44359	NW_004515936.1	scaffold475	44359	GG	CC	CC	INTERGENIC		
SNP_74069_A_73346	NW_004515936.1	scaffold475	73346	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74070_A_84150	NW_004515936.1	scaffold475	84150	TT	GG	GG	INTERGENIC		
SNP_74071_A_84366	NW_004515936.1	scaffold475	84366	TT	AA	AA	INTERGENIC		
SNP_74072_A_88872	NW_004515936.1	scaffold475	88872	AA	GG	GG	INTERGENIC		
SNP_74073_A_89244	NW_004515936.1	scaffold475	89244	GG	AA	AA	INTERGENIC		
SNP_74074_A_89266	NW_004515936.1	scaffold475	89266	TT	CC	CC	INTERGENIC		
SNP_74075_A_89286	NW_004515936.1	scaffold475	89286	TT	CC	CC	INTERGENIC		
SNP_74076_A_93052	NW_004515936.1	scaffold475	93052	AA	CC	CC	INTERGENIC		
SNP_74077_A_127031	NW_004515936.1	scaffold475	127031	TT	CC	CC	INTERGENIC		
SNP_74078_A_130700	NW_004515936.1	scaffold475	130700	TT	GG	GG	INTERGENIC		
SNP_74079_A_140907	NW_004515936.1	scaffold475	140907	TT	CC	CC	INTERGENIC		
SNP_74080_A_141120	NW_004515936.1	scaffold475	141120	AA	GG	GG	INTERGENIC		
SNP_74082_A_141573	NW_004515936.1	scaffold475	141573	GG	CC	CC	INTERGENIC		
SNP_74083_A_144184	NW_004515936.1	scaffold475	144184	AA	GG	GG	DRR	101508528	Unknown function
SNP_74084_A_144346	NW_004515936.1	scaffold475	144346	TT	CC	CC	DRR	101508528	Unknown function
SNP_74085_A_144470	NW_004515936.1	scaffold475	144470	AA	TT	TT	DRR	101508528	Unknown function
SNP_74086_A_144483	NW_004515936.1	scaffold475	144483	GG	CC	CC	DRR	101508528	Unknown function
SNP_74087_A_144507	NW_004515936.1	scaffold475	144507	TT	CC	CC	DRR	101508528	Unknown function
SNP_74088_A_144509	NW_004515936.1	scaffold475	144509	AA	CC	CC	DRR	101508528	Unknown function
SNP_74089_A_144902	NW_004515936.1	scaffold475	144902	TT	CC	CC	INTERGENIC		
SNP_74090_A_144920	NW_004515936.1	scaffold475	144920	AA	CC	CC	INTERGENIC		
SNP_74091_A_144942	NW_004515936.1	scaffold475	144942	TT	AA	AA	INTERGENIC		
SNP_74092_A_144995	NW_004515936.1	scaffold475	144995	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74093_A_145006	NW_004515936.1	scaffold475	145006	TT	AA	AA	INTERGENIC		
SNP_74094_A_145013	NW_004515936.1	scaffold475	145013	AA	GG	GG	INTERGENIC		
SNP_74095_A_145025	NW_004515936.1	scaffold475	145025	TT	GG	GG	INTERGENIC		
SNP_74096_A_145070	NW_004515936.1	scaffold475	145070	AA	GG	GG	INTERGENIC		
SNP_74097_A_145178	NW_004515936.1	scaffold475	145178	AA	GG	GG	INTERGENIC		
SNP_74098_A_145201	NW_004515936.1	scaffold475	145201	AA	GG	GG	INTERGENIC		
SNP_74099_A_145389	NW_004515936.1	scaffold475	145389	GG	CC	CC	INTERGENIC		
SNP_74100_A_145454	NW_004515936.1	scaffold475	145454	AA	GG	GG	INTERGENIC		
SNP_74101_A_149782	NW_004515936.1	scaffold475	149782	CC	AA	AA	URR	101508841	Unknown function
SNP_74103_A_163218	NW_004515936.1	scaffold475	163218	TT	CC	CC	INTERGENIC		
SNP_74104_A_163225	NW_004515936.1	scaffold475	163225	AA	GG	GG	INTERGENIC		
SNP_74105_A_163253	NW_004515936.1	scaffold475	163253	TT	GG	GG	INTERGENIC		
SNP_74106_A_163296	NW_004515936.1	scaffold475	163296	AA	CC	CC	INTERGENIC		
SNP_74107_A_163316	NW_004515936.1	scaffold475	163316	GG	CC	CC	INTERGENIC		
SNP_74108_A_163332	NW_004515936.1	scaffold475	163332	TT	CC	CC	INTERGENIC		
SNP_74109_A_163367	NW_004515936.1	scaffold475	163367	GG	CC	CC	INTERGENIC		
SNP_74110_A_163389	NW_004515936.1	scaffold475	163389	TT	CC	CC	INTERGENIC		
SNP_74111_A_163424	NW_004515936.1	scaffold475	163424	AA	GG	GG	INTERGENIC		
SNP_74112_A_163438	NW_004515936.1	scaffold475	163438	TT	CC	CC	INTERGENIC		
SNP_74113_A_163458	NW_004515936.1	scaffold475	163458	TT	CC	CC	INTERGENIC		
SNP_74114_A_163467	NW_004515936.1	scaffold475	163467	TT	GG	GG	INTERGENIC		
SNP_74115_A_163514	NW_004515936.1	scaffold475	163514	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74116_A_163559	NW_004515936.1	scaffold475	163559	TT	CC	CC	INTERGENIC			
SNP_74117_A_163616	NW_004515936.1	scaffold475	163616	TT	CC	CC	INTERGENIC			
SNP_74118_A_163688	NW_004515936.1	scaffold475	163688	AA	GG	GG	INTERGENIC			
SNP_74119_A_163755	NW_004515936.1	scaffold475	163755	CC	AA	AA	INTERGENIC			
SNP_74120_A_163786	NW_004515936.1	scaffold475	163786	TT	CC	CC	INTERGENIC			
SNP_74121_A_163787	NW_004515936.1	scaffold475	163787	AA	GG	GG	INTERGENIC			
SNP_74122_A_163824	NW_004515936.1	scaffold475	163824	CC	TT	TT	INTERGENIC			
SNP_74123_A_163825	NW_004515936.1	scaffold475	163825	AA	GG	GG	INTERGENIC			
SNP_74124_A_163850	NW_004515936.1	scaffold475	163850	TT	GG	GG	INTERGENIC			
SNP_74125_A_163886	NW_004515936.1	scaffold475	163886	AA	CC	CC	INTERGENIC			
SNP_74126_A_164152	NW_004515936.1	scaffold475	164152	TT	CC	CC	INTERGENIC			
SNP_74127_A_164259	NW_004515936.1	scaffold475	164259	TT	CC	CC	INTERGENIC			
SNP_74128_A_164291	NW_004515936.1	scaffold475	164291	AA	GG	GG	INTERGENIC			
SNP_74129_A_164409	NW_004515936.1	scaffold475	164409	GG	TT	TT	INTERGENIC			
SNP_74130_A_167552	NW_004515936.1	scaffold475	167552	TT	CC	CC	DRR	101509164	Unknown function	
SNP_74131_A_167779	NW_004515936.1	scaffold475	167779	TT	GG	GG	DRR	101509164	Unknown function	
SNP_74132_A_168035	NW_004515936.1	scaffold475	168035	TT	AA	AA	DRR	101509164	Unknown function	
SNP_74134_A_174726	NW_004515936.1	scaffold475	174726	AA	TT	TT	INTERGENIC			
SNP_74135_A_174744	NW_004515936.1	scaffold475	174744	AA	TT	TT	INTERGENIC			
SNP_74136_A_174775	NW_004515936.1	scaffold475	174775	AA	TT	TT	INTERGENIC			
SNP_74137_A_175112	NW_004515936.1	scaffold475	175112	CC	GG	GG	INTERGENIC			
SNP_74138_A_175341	NW_004515936.1	scaffold475	175341	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74139_A_189681	NW_004515936.1	scaffold475	189681	GG	TT	TT	INTERGENIC			
SNP_74140_A_189685	NW_004515936.1	scaffold475	189685	AA	CC	CC	INTERGENIC			
SNP_74141_A_189701	NW_004515936.1	scaffold475	189701	AA	GG	GG	INTERGENIC			
SNP_74142_A_189731	NW_004515936.1	scaffold475	189731	TT	AA	AA	INTERGENIC			
SNP_74143_A_190477	NW_004515936.1	scaffold475	190477	AA	GG	GG	INTERGENIC			
SNP_74144_A_190491	NW_004515936.1	scaffold475	190491	AA	GG	GG	INTERGENIC			
SNP_74145_A_172	NW_004515937.1	scaffold476	172	AA	TT	TT	INTERGENIC			
SNP_74146_A_224	NW_004515937.1	scaffold476	224	TT	CC	CC	INTERGENIC			
SNP_74147_A_295	NW_004515937.1	scaffold476	295	CC	TT	TT	INTERGENIC			
SNP_74148_A_308	NW_004515937.1	scaffold476	308	TT	CC	CC	INTERGENIC			
SNP_74149_A_401	NW_004515937.1	scaffold476	401	GG	CC	CC	INTERGENIC			
SNP_74150_A_420	NW_004515937.1	scaffold476	420	CC	TT	TT	INTERGENIC			
SNP_74151_A_604	NW_004515937.1	scaffold476	604	AA	TT	TT	INTERGENIC			
SNP_74152_A_645	NW_004515937.1	scaffold476	645	GG	AA	AA	INTERGENIC			
SNP_74153_A_724	NW_004515937.1	scaffold476	724	AA	CC	CC	INTERGENIC			
SNP_74154_A_763	NW_004515937.1	scaffold476	763	AA	GG	GG	INTERGENIC			
SNP_74155_A_814	NW_004515937.1	scaffold476	814	TT	CC	CC	INTERGENIC			
SNP_74156_A_1007	NW_004515937.1	scaffold476	1007	GG	TT	TT	INTERGENIC			
SNP_74157_A_1131	NW_004515937.1	scaffold476	1131	GG	TT	TT	INTERGENIC			
SNP_74158_A_1183	NW_004515937.1	scaffold476	1183	AA	CC	CC	INTERGENIC			
SNP_74159_A_1223	NW_004515937.1	scaffold476	1223	TT	GG	GG	INTERGENIC			
SNP_74160_A_1350	NW_004515937.1	scaffold476	1350	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74161_A_1370	NW_004515937.1	scaffold476	1370	TT	AA	AA	INTERGENIC			
SNP_74162_A_1567	NW_004515937.1	scaffold476	1567	TT	CC	CC	INTERGENIC			
SNP_74163_A_3843	NW_004515937.1	scaffold476	3843	AA	GG	GG	INTERGENIC			
SNP_74164_A_4215	NW_004515937.1	scaffold476	4215	AA	GG	GG	INTERGENIC			
SNP_74165_A_4219	NW_004515937.1	scaffold476	4219	TT	CC	CC	INTERGENIC			
SNP_74166_A_6201	NW_004515937.1	scaffold476	6201	CC	GG	GG	INTERGENIC			
SNP_74167_A_9869	NW_004515937.1	scaffold476	9869	GG	AA	AA	INTERGENIC			
SNP_74169_A_9888	NW_004515937.1	scaffold476	9888	CC	TT	TT	INTERGENIC			
SNP_74170_A_10250	NW_004515937.1	scaffold476	10250	TT	GG	GG	INTERGENIC			
SNP_74171_A_10640	NW_004515937.1	scaffold476	10640	TT	CC	CC	INTERGENIC			
SNP_74172_A_10775	NW_004515937.1	scaffold476	10775	CC	GG	GG	INTERGENIC			
SNP_74173_A_10856	NW_004515937.1	scaffold476	10856	AA	GG	GG	INTERGENIC			
SNP_74174_A_10929	NW_004515937.1	scaffold476	10929	TT	CC	CC	INTERGENIC			
SNP_74175_A_10930	NW_004515937.1	scaffold476	10930	TT	CC	CC	INTERGENIC			
SNP_74176_A_10961	NW_004515937.1	scaffold476	10961	AA	GG	GG	INTERGENIC			
SNP_74177_A_11018	NW_004515937.1	scaffold476	11018	AA	GG	GG	INTERGENIC			
SNP_74178_A_11423	NW_004515937.1	scaffold476	11423	GG	AA	AA	INTERGENIC			
SNP_74179_A_11426	NW_004515937.1	scaffold476	11426	GG	AA	AA	INTERGENIC			
SNP_74180_A_11440	NW_004515937.1	scaffold476	11440	AA	GG	GG	INTERGENIC			
SNP_74181_A_11472	NW_004515937.1	scaffold476	11472	CC	GG	GG	INTERGENIC			
SNP_74182_A_4449	NW_004515938.1	scaffold477	4449	TT	CC	CC	INTERGENIC			
SNP_74183_A_4705	NW_004515938.1	scaffold477	4705	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74184_A_5406	NW_004515938.1	scaffold477	5406	CC	GG	GG	INTERGENIC			
SNP_74185_A_6452	NW_004515938.1	scaffold477	6452	CC	TT	TT	INTERGENIC			
SNP_74186_A_6510	NW_004515938.1	scaffold477	6510	CC	TT	TT	INTERGENIC			
SNP_74187_A_6705	NW_004515938.1	scaffold477	6705	AA	GG	GG	INTERGENIC			
SNP_74188_A_7149	NW_004515938.1	scaffold477	7149	TT	CC	CC	INTERGENIC			
SNP_74189_A_7264	NW_004515938.1	scaffold477	7264	GG	AA	AA	INTERGENIC			
SNP_74190_A_7622	NW_004515938.1	scaffold477	7622	TT	CC	CC	INTERGENIC			
SNP_74191_A_8303	NW_004515938.1	scaffold477	8303	GG	AA	AA	INTERGENIC			
SNP_74192_A_8790	NW_004515938.1	scaffold477	8790	TT	CC	CC	INTERGENIC			
SNP_74193_A_9157	NW_004515938.1	scaffold477	9157	AA	GG	GG	INTERGENIC			
SNP_74194_A_9381	NW_004515938.1	scaffold477	9381	CC	GG	GG	INTERGENIC			
SNP_74195_A_9416	NW_004515938.1	scaffold477	9416	CC	GG	GG	INTERGENIC			
SNP_74196_A_9466	NW_004515938.1	scaffold477	9466	CC	AA	AA	INTERGENIC			
SNP_74197_A_9620	NW_004515938.1	scaffold477	9620	GG	AA	AA	INTERGENIC			
SNP_74198_A_9779	NW_004515938.1	scaffold477	9779	CC	GG	GG	INTERGENIC			
SNP_74199_A_9929	NW_004515938.1	scaffold477	9929	GG	AA	AA	INTERGENIC			
SNP_74200_A_9983	NW_004515938.1	scaffold477	9983	GG	AA	AA	INTERGENIC			
SNP_74201_A_10141	NW_004515938.1	scaffold477	10141	TT	CC	CC	INTERGENIC			
SNP_74202_A_10229	NW_004515938.1	scaffold477	10229	AA	TT	TT	INTERGENIC			
SNP_74204_A_10326	NW_004515938.1	scaffold477	10326	GG	TT	TT	INTERGENIC			
SNP_74205_A_10333	NW_004515938.1	scaffold477	10333	TT	GG	GG	INTERGENIC			
SNP_74206_A_10402	NW_004515938.1	scaffold477	10402	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74207_A_10601	NW_004515938.1	scaffold477	10601	TT	AA	AA	INTERGENIC			
SNP_74208_A_10738	NW_004515938.1	scaffold477	10738	GG	AA	AA	INTERGENIC			
SNP_74209_A_10766	NW_004515938.1	scaffold477	10766	CC	GG	GG	INTERGENIC			
SNP_74210_A_10822	NW_004515938.1	scaffold477	10822	TT	AA	AA	INTERGENIC			
SNP_74211_A_10839	NW_004515938.1	scaffold477	10839	TT	AA	AA	INTERGENIC			
SNP_74212_A_11193	NW_004515938.1	scaffold477	11193	GG	AA	AA	INTERGENIC			
SNP_74213_A_11248	NW_004515938.1	scaffold477	11248	AA	TT	TT	INTERGENIC			
SNP_74215_A_11634	NW_004515938.1	scaffold477	11634	AA	GG	GG	INTERGENIC			
SNP_74216_A_11713	NW_004515938.1	scaffold477	11713	GG	AA	AA	INTERGENIC			
SNP_74217_A_11738	NW_004515938.1	scaffold477	11738	AA	TT	TT	INTERGENIC			
SNP_74218_A_11795	NW_004515938.1	scaffold477	11795	AA	GG	GG	INTERGENIC			
SNP_74219_A_11830	NW_004515938.1	scaffold477	11830	AA	GG	GG	INTERGENIC			
SNP_74220_A_11850	NW_004515938.1	scaffold477	11850	CC	GG	GG	INTERGENIC			
SNP_74221_A_11855	NW_004515938.1	scaffold477	11855	GG	AA	AA	INTERGENIC			
SNP_74222_A_11954	NW_004515938.1	scaffold477	11954	TT	AA	AA	INTERGENIC			
SNP_74223_A_11983	NW_004515938.1	scaffold477	11983	GG	AA	AA	INTERGENIC			
SNP_74224_A_11985	NW_004515938.1	scaffold477	11985	TT	CC	CC	INTERGENIC			
SNP_74225_A_12074	NW_004515938.1	scaffold477	12074	CC	GG	GG	INTERGENIC			
SNP_74226_A_12208	NW_004515938.1	scaffold477	12208	AA	CC	CC	INTERGENIC			
SNP_74227_A_12225	NW_004515938.1	scaffold477	12225	TT	CC	CC	INTERGENIC			
SNP_74228_A_12276	NW_004515938.1	scaffold477	12276	GG	CC	CC	INTERGENIC			
SNP_74229_A_12390	NW_004515938.1	scaffold477	12390	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74230_A_12543	NW_004515938.1	scaffold477	12543	GG	CC	CC	INTERGENIC			
SNP_74231_A_12648	NW_004515938.1	scaffold477	12648	CC	AA	AA	INTERGENIC			
SNP_74232_A_12664	NW_004515938.1	scaffold477	12664	CC	TT	TT	INTERGENIC			
SNP_74233_A_12822	NW_004515938.1	scaffold477	12822	CC	AA	AA	INTERGENIC			
SNP_74234_A_13004	NW_004515938.1	scaffold477	13004	GG	TT	TT	INTERGENIC			
SNP_74235_A_13502	NW_004515938.1	scaffold477	13502	CC	GG	GG	INTERGENIC			
SNP_74236_A_13532	NW_004515938.1	scaffold477	13532	GG	TT	TT	INTERGENIC			
SNP_74237_A_14584	NW_004515938.1	scaffold477	14584	AA	GG	GG	INTERGENIC			
SNP_74238_A_14779	NW_004515938.1	scaffold477	14779	AA	TT	TT	INTERGENIC			
SNP_74239_A_14780	NW_004515938.1	scaffold477	14780	AA	GG	GG	INTERGENIC			
SNP_74240_A_15351	NW_004515938.1	scaffold477	15351	CC	TT	TT	INTERGENIC			
SNP_74241_A_15469	NW_004515938.1	scaffold477	15469	CC	AA	AA	INTERGENIC			
SNP_74242_A_15667	NW_004515938.1	scaffold477	15667	CC	AA	AA	INTERGENIC			
SNP_74243_A_15676	NW_004515938.1	scaffold477	15676	CC	TT	TT	INTERGENIC			
SNP_74244_A_15892	NW_004515938.1	scaffold477	15892	GG	AA	AA	INTERGENIC			
SNP_74245_A_16326	NW_004515938.1	scaffold477	16326	AA	GG	GG	INTERGENIC			
SNP_74246_A_16335	NW_004515938.1	scaffold477	16335	TT	CC	CC	INTERGENIC			
SNP_74247_A_16808	NW_004515938.1	scaffold477	16808	CC	TT	TT	INTERGENIC			
SNP_74248_A_17127	NW_004515938.1	scaffold477	17127	GG	TT	TT	INTERGENIC			
SNP_74249_A_17366	NW_004515938.1	scaffold477	17366	CC	AA	AA	INTERGENIC			
SNP_74250_A_17370	NW_004515938.1	scaffold477	17370	AA	TT	TT	INTERGENIC			
SNP_74251_A_17926	NW_004515938.1	scaffold477	17926	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74252_A_19490	NW_004515938.1	scaffold477	19490	GG	AA	AA	INTERGENIC			
SNP_74253_A_20125	NW_004515938.1	scaffold477	20125	TT	CC	CC	INTERGENIC			
SNP_74254_A_20371	NW_004515938.1	scaffold477	20371	TT	GG	GG	INTERGENIC			
SNP_74255_A_20448	NW_004515938.1	scaffold477	20448	TT	CC	CC	INTERGENIC			
SNP_74256_A_20648	NW_004515938.1	scaffold477	20648	AA	GG	GG	INTERGENIC			
SNP_74258_A_20997	NW_004515938.1	scaffold477	20997	TT	CC	CC	INTERGENIC			
SNP_74259_A_21409	NW_004515938.1	scaffold477	21409	TT	CC	CC	INTERGENIC			
SNP_74260_A_21438	NW_004515938.1	scaffold477	21438	AA	GG	GG	INTERGENIC			
SNP_74261_A_21533	NW_004515938.1	scaffold477	21533	AA	CC	CC	INTERGENIC			
SNP_74262_A_22472	NW_004515938.1	scaffold477	22472	TT	GG	GG	INTERGENIC			
SNP_74263_A_22617	NW_004515938.1	scaffold477	22617	AA	GG	GG	INTERGENIC			
SNP_74264_A_22639	NW_004515938.1	scaffold477	22639	GG	TT	TT	INTERGENIC			
SNP_74265_A_22677	NW_004515938.1	scaffold477	22677	TT	CC	CC	INTERGENIC			
SNP_74266_A_22692	NW_004515938.1	scaffold477	22692	TT	GG	GG	INTERGENIC			
SNP_74267_A_22907	NW_004515938.1	scaffold477	22907	GG	AA	AA	INTERGENIC			
SNP_74268_A_23335	NW_004515938.1	scaffold477	23335	AA	CC	CC	INTERGENIC			
SNP_74269_A_23614	NW_004515938.1	scaffold477	23614	TT	CC	CC	INTERGENIC			
SNP_74270_A_23729	NW_004515938.1	scaffold477	23729	GG	AA	AA	INTERGENIC			
SNP_74271_A_28225	NW_004515938.1	scaffold477	28225	AA	CC	CC	INTERGENIC			
SNP_74272_A_28254	NW_004515938.1	scaffold477	28254	CC	TT	TT	INTERGENIC			
SNP_74274_A_28447	NW_004515938.1	scaffold477	28447	CC	TT	TT	INTERGENIC			
SNP_74275_A_28779	NW_004515938.1	scaffold477	28779	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74276_A_29182	NW_004515938.1	scaffold477	29182	AA	TT	TT	INTERGENIC			
SNP_74277_A_29183	NW_004515938.1	scaffold477	29183	CC	TT	TT	INTERGENIC			
SNP_74278_A_29399	NW_004515938.1	scaffold477	29399	AA	TT	TT	INTERGENIC			
SNP_74279_A_30368	NW_004515938.1	scaffold477	30368	AA	GG	GG	INTERGENIC			
SNP_74280_A_30824	NW_004515938.1	scaffold477	30824	CC	GG	GG	INTERGENIC			
SNP_74281_A_31469	NW_004515938.1	scaffold477	31469	GG	TT	TT	INTERGENIC			
SNP_74282_A_32151	NW_004515938.1	scaffold477	32151	TT	GG	GG	INTERGENIC			
SNP_74283_A_32359	NW_004515938.1	scaffold477	32359	TT	CC	CC	INTERGENIC			
SNP_74284_A_32466	NW_004515938.1	scaffold477	32466	GG	AA	AA	INTERGENIC			
SNP_74285_A_33553	NW_004515938.1	scaffold477	33553	AA	TT	TT	INTERGENIC			
SNP_74286_A_33649	NW_004515938.1	scaffold477	33649	TT	CC	CC	INTERGENIC			
SNP_74287_A_33965	NW_004515938.1	scaffold477	33965	TT	CC	CC	INTERGENIC			
SNP_74288_A_34349	NW_004515938.1	scaffold477	34349	TT	GG	GG	INTERGENIC			
SNP_74289_A_34476	NW_004515938.1	scaffold477	34476	TT	GG	GG	INTERGENIC			
SNP_74290_A_34558	NW_004515938.1	scaffold477	34558	AA	GG	GG	INTERGENIC			
SNP_74291_A_35104	NW_004515938.1	scaffold477	35104	AA	CC	CC	INTERGENIC			
SNP_74292_A_35106	NW_004515938.1	scaffold477	35106	AA	TT	TT	INTERGENIC			
SNP_74293_A_35822	NW_004515938.1	scaffold477	35822	CC	TT	TT	INTERGENIC			
SNP_74294_A_43429	NW_004515938.1	scaffold477	43429	CC	AA	AA	INTERGENIC			
SNP_74295_A_43907	NW_004515938.1	scaffold477	43907	CC	TT	TT	INTERGENIC			
SNP_74296_A_43934	NW_004515938.1	scaffold477	43934	TT	CC	CC	INTERGENIC			
SNP_74297_A_44296	NW_004515938.1	scaffold477	44296	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74298_A_44658	NW_004515938.1	scaffold477	44658	AA	CC	CC	INTERGENIC			
SNP_74299_A_46488	NW_004515938.1	scaffold477	46488	CC	TT	TT	INTERGENIC			
SNP_74301_A_46907	NW_004515938.1	scaffold477	46907	GG	AA	AA	INTERGENIC			
SNP_74302_A_47168	NW_004515938.1	scaffold477	47168	AA	CC	CC	INTERGENIC			
SNP_74303_A_47207	NW_004515938.1	scaffold477	47207	TT	CC	CC	INTERGENIC			
SNP_74304_A_47414	NW_004515938.1	scaffold477	47414	TT	CC	CC	INTERGENIC			
SNP_74305_A_47423	NW_004515938.1	scaffold477	47423	TT	AA	AA	INTERGENIC			
SNP_74306_A_47442	NW_004515938.1	scaffold477	47442	AA	GG	GG	INTERGENIC			
SNP_74307_A_47488	NW_004515938.1	scaffold477	47488	AA	TT	TT	INTERGENIC			
SNP_74308_A_47566	NW_004515938.1	scaffold477	47566	TT	AA	AA	INTERGENIC			
SNP_74309_A_47588	NW_004515938.1	scaffold477	47588	CC	AA	AA	INTERGENIC			
SNP_74310_A_47626	NW_004515938.1	scaffold477	47626	CC	TT	TT	INTERGENIC			
SNP_74311_A_47841	NW_004515938.1	scaffold477	47841	GG	AA	AA	INTERGENIC			
SNP_74312_A_47865	NW_004515938.1	scaffold477	47865	TT	CC	CC	INTERGENIC			
SNP_74313_A_47891	NW_004515938.1	scaffold477	47891	AA	GG	GG	INTERGENIC			
SNP_74315_A_52358	NW_004515938.1	scaffold477	52358	AA	GG	GG	INTERGENIC			
SNP_74316_A_52979	NW_004515938.1	scaffold477	52979	TT	AA	AA	INTERGENIC			
SNP_74317_A_53082	NW_004515938.1	scaffold477	53082	AA	CC	CC	INTERGENIC			
SNP_74318_A_53456	NW_004515938.1	scaffold477	53456	AA	GG	GG	INTERGENIC			
SNP_74319_A_53517	NW_004515938.1	scaffold477	53517	CC	TT	TT	INTERGENIC			
SNP_74320_A_53526	NW_004515938.1	scaffold477	53526	GG	AA	AA	INTERGENIC			
SNP_74321_A_55110	NW_004515938.1	scaffold477	55110	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74322_A_55129	NW_004515938.1	scaffold477	55129	GG	AA	AA	INTERGENIC		
SNP_74323_A_55248	NW_004515938.1	scaffold477	55248	AA	GG	GG	INTERGENIC		
SNP_74324_A_55386	NW_004515938.1	scaffold477	55386	TT	CC	CC	INTERGENIC		
SNP_74325_A_55449	NW_004515938.1	scaffold477	55449	TT	CC	CC	INTERGENIC		
SNP_74326_A_55728	NW_004515938.1	scaffold477	55728	AA	GG	GG	INTERGENIC		
SNP_74327_A_55871	NW_004515938.1	scaffold477	55871	TT	CC	CC	INTERGENIC		
SNP_74328_A_55911	NW_004515938.1	scaffold477	55911	AA	GG	GG	INTERGENIC		
SNP_74329_A_55994	NW_004515938.1	scaffold477	55994	GG	AA	AA	INTERGENIC		
SNP_74330_A_56733	NW_004515938.1	scaffold477	56733	TT	CC	CC	INTERGENIC		
SNP_74331_A_57038	NW_004515938.1	scaffold477	57038	TT	CC	CC	INTERGENIC		
SNP_74332_A_59192	NW_004515938.1	scaffold477	59192	CC	AA	AA	INTERGENIC		
SNP_74333_A_61880	NW_004515938.1	scaffold477	61880	CC	TT	TT	URR	101510130	uncharacterized LOC101510130
SNP_74334_A_62439	NW_004515938.1	scaffold477	62439	CC	AA	AA	URR	101510130	uncharacterized LOC101510130
SNP_74335_A_62474	NW_004515938.1	scaffold477	62474	AA	TT	TT	URR	101510130	uncharacterized LOC101510130
SNP_74336_A_62526	NW_004515938.1	scaffold477	62526	GG	TT	TT	URR	101510130	uncharacterized LOC101510130
SNP_74337_A_65338	NW_004515938.1	scaffold477	65338	GG	AA	AA	INTERGENIC		
SNP_74338_A_65356	NW_004515938.1	scaffold477	65356	TT	AA	AA	INTERGENIC		
SNP_74339_A_65436	NW_004515938.1	scaffold477	65436	TT	GG	GG	INTERGENIC		
SNP_74340_A_65455	NW_004515938.1	scaffold477	65455	AA	GG	GG	INTERGENIC		
SNP_74341_A_2591	NW_004515940.1	scaffold479	2591	AA	TT	TT	INTERGENIC		
SNP_74342_A_6980	NW_004515940.1	scaffold479	6980	AA	GG	GG	INTERGENIC		
SNP_74343_A_7123	NW_004515940.1	scaffold479	7123	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74344_A_7487	NW_004515940.1	scaffold479	7487	GG	CC	CC	INTERGENIC			
SNP_74346_A_7786	NW_004515940.1	scaffold479	7786	TT	CC	CC	INTERGENIC			
SNP_74347_A_16477	NW_004515940.1	scaffold479	16477	TT	CC	CC	INTERGENIC			
SNP_74348_A_16585	NW_004515940.1	scaffold479	16585	AA	GG	GG	INTERGENIC			
SNP_74349_A_16599	NW_004515940.1	scaffold479	16599	CC	GG	GG	INTERGENIC			
SNP_74350_A_16690	NW_004515940.1	scaffold479	16690	AA	GG	GG	INTERGENIC			
SNP_74351_A_16741	NW_004515940.1	scaffold479	16741	AA	GG	GG	INTERGENIC			
SNP_74352_A_16821	NW_004515940.1	scaffold479	16821	AA	GG	GG	INTERGENIC			
SNP_74353_A_16933	NW_004515940.1	scaffold479	16933	AA	GG	GG	INTERGENIC			
SNP_74354_A_17004	NW_004515940.1	scaffold479	17004	TT	AA	AA	INTERGENIC			
SNP_74355_A_17005	NW_004515940.1	scaffold479	17005	AA	TT	TT	INTERGENIC			
SNP_74356_A_17050	NW_004515940.1	scaffold479	17050	AA	CC	CC	INTERGENIC			
SNP_74357_A_17077	NW_004515940.1	scaffold479	17077	GG	AA	AA	INTERGENIC			
SNP_74358_A_17082	NW_004515940.1	scaffold479	17082	TT	GG	GG	INTERGENIC			
SNP_74359_A_17644	NW_004515940.1	scaffold479	17644	AA	GG	GG	INTERGENIC			
SNP_74360_A_17662	NW_004515940.1	scaffold479	17662	AA	TT	TT	INTERGENIC			
SNP_74361_A_17673	NW_004515940.1	scaffold479	17673	AA	GG	GG	INTERGENIC			
SNP_74362_A_17699	NW_004515940.1	scaffold479	17699	AA	GG	GG	INTERGENIC			
SNP_74363_A_17802	NW_004515940.1	scaffold479	17802	GG	TT	TT	INTERGENIC			
SNP_74364_A_17999	NW_004515940.1	scaffold479	17999	CC	TT	TT	INTERGENIC			
SNP_74365_A_18046	NW_004515940.1	scaffold479	18046	TT	CC	CC	INTERGENIC			
SNP_74366_A_18254	NW_004515940.1	scaffold479	18254	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74367_A_18339	NW_004515940.1	scaffold479	18339	GG	TT	TT	INTERGENIC			
SNP_74369_A_24109	NW_004515940.1	scaffold479	24109	CC	TT	TT	INTERGENIC			
SNP_74370_A_26297	NW_004515940.1	scaffold479	26297	CC	AA	AA	INTERGENIC			
SNP_74371_A_26303	NW_004515940.1	scaffold479	26303	GG	TT	TT	INTERGENIC			
SNP_74372_A_31588	NW_004515940.1	scaffold479	31588	TT	AA	AA	INTERGENIC			
SNP_74373_A_31592	NW_004515940.1	scaffold479	31592	GG	AA	AA	INTERGENIC			
SNP_74374_A_31620	NW_004515940.1	scaffold479	31620	AA	TT	TT	INTERGENIC			
SNP_74375_A_31935	NW_004515940.1	scaffold479	31935	AA	GG	GG	INTERGENIC			
SNP_74376_A_35962	NW_004515940.1	scaffold479	35962	AA	TT	TT	INTERGENIC			
SNP_74377_A_47360	NW_004515940.1	scaffold479	47360	TT	GG	GG	INTERGENIC			
SNP_74378_A_47386	NW_004515940.1	scaffold479	47386	TT	CC	CC	INTERGENIC			
SNP_74379_A_47390	NW_004515940.1	scaffold479	47390	AA	GG	GG	INTERGENIC			
SNP_74380_A_47399	NW_004515940.1	scaffold479	47399	AA	TT	TT	INTERGENIC			
SNP_74381_A_48735	NW_004515940.1	scaffold479	48735	TT	CC	CC	INTERGENIC			
SNP_74382_A_48809	NW_004515940.1	scaffold479	48809	TT	CC	CC	INTERGENIC			
SNP_74383_A_48930	NW_004515940.1	scaffold479	48930	GG	AA	AA	INTERGENIC			
SNP_74384_A_48932	NW_004515940.1	scaffold479	48932	TT	GG	GG	INTERGENIC			
SNP_74385_A_55097	NW_004515940.1	scaffold479	55097	CC	AA	AA	INTERGENIC			
SNP_74386_A_55395	NW_004515940.1	scaffold479	55395	AA	TT	TT	INTERGENIC			
SNP_74387_A_55401	NW_004515940.1	scaffold479	55401	TT	AA	AA	INTERGENIC			
SNP_74388_A_55443	NW_004515940.1	scaffold479	55443	TT	GG	GG	INTERGENIC			
SNP_74389_A_55445	NW_004515940.1	scaffold479	55445	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74390_A_55455	NW_004515940.1	scaffold479	55455	TT	CC	CC	INTERGENIC			
SNP_74391_A_55469	NW_004515940.1	scaffold479	55469	TT	CC	CC	INTERGENIC			
SNP_74392_A_55470	NW_004515940.1	scaffold479	55470	GG	TT	TT	INTERGENIC			
SNP_74393_A_55474	NW_004515940.1	scaffold479	55474	TT	CC	CC	INTERGENIC			
SNP_74394_A_55533	NW_004515940.1	scaffold479	55533	TT	GG	GG	INTERGENIC			
SNP_74395_A_55543	NW_004515940.1	scaffold479	55543	TT	GG	GG	INTERGENIC			
SNP_74396_A_55582	NW_004515940.1	scaffold479	55582	AA	TT	TT	INTERGENIC			
SNP_74397_A_55643	NW_004515940.1	scaffold479	55643	TT	GG	GG	INTERGENIC			
SNP_74398_A_56624	NW_004515940.1	scaffold479	56624	TT	AA	AA	INTERGENIC			
SNP_74399_A_79540	NW_004515940.1	scaffold479	79540	AA	TT	TT	INTERGENIC			
SNP_74400_A_87565	NW_004515940.1	scaffold479	87565	AA	GG	GG	INTERGENIC			
SNP_74401_A_87670	NW_004515940.1	scaffold479	87670	TT	CC	CC	INTERGENIC			
SNP_74402_A_88323	NW_004515940.1	scaffold479	88323	TT	AA	AA	INTERGENIC			
SNP_74403_A_108647	NW_004515940.1	scaffold479	108647	GG	TT	TT	INTERGENIC			
SNP_74404_A_108970	NW_004515940.1	scaffold479	108970	TT	CC	CC	INTERGENIC			
SNP_74405_A_109093	NW_004515940.1	scaffold479	109093	CC	TT	TT	INTERGENIC			
SNP_74406_A_109098	NW_004515940.1	scaffold479	109098	TT	GG	GG	INTERGENIC			
SNP_74407_A_109124	NW_004515940.1	scaffold479	109124	AA	CC	CC	INTERGENIC			
SNP_74408_A_109126	NW_004515940.1	scaffold479	109126	AA	GG	GG	INTERGENIC			
SNP_74409_A_110248	NW_004515940.1	scaffold479	110248	GG	AA	AA	INTERGENIC			
SNP_74410_A_110261	NW_004515940.1	scaffold479	110261	CC	GG	GG	INTERGENIC			
SNP_74411_A_110274	NW_004515940.1	scaffold479	110274	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74412_A_117041	NW_004515940.1	scaffold479	117041	TT	GG	GG	INTERGENIC			
SNP_74413_A_117693	NW_004515940.1	scaffold479	117693	TT	AA	AA	INTERGENIC			
SNP_74414_A_121204	NW_004515940.1	scaffold479	121204	AA	TT	TT	INTERGENIC			
SNP_74415_A_121997	NW_004515940.1	scaffold479	121997	TT	AA	AA	INTERGENIC			
SNP_74416_A_122036	NW_004515940.1	scaffold479	122036	TT	CC	CC	INTERGENIC			
SNP_74417_A_122037	NW_004515940.1	scaffold479	122037	TT	AA	AA	INTERGENIC			
SNP_74418_A_125189	NW_004515940.1	scaffold479	125189	GG	CC	CC	INTERGENIC			
SNP_74419_A_125396	NW_004515940.1	scaffold479	125396	CC	TT	TT	INTERGENIC			
SNP_74421_A_125425	NW_004515940.1	scaffold479	125425	TT	AA	AA	INTERGENIC			
SNP_74422_A_125573	NW_004515940.1	scaffold479	125573	TT	CC	CC	INTERGENIC			
SNP_74423_A_125574	NW_004515940.1	scaffold479	125574	GG	AA	AA	INTERGENIC			
SNP_74424_A_125578	NW_004515940.1	scaffold479	125578	TT	AA	AA	INTERGENIC			
SNP_74425_A_125591	NW_004515940.1	scaffold479	125591	TT	CC	CC	INTERGENIC			
SNP_74426_A_125640	NW_004515940.1	scaffold479	125640	AA	GG	GG	INTERGENIC			
SNP_74427_A_125664	NW_004515940.1	scaffold479	125664	TT	CC	CC	INTERGENIC			
SNP_74428_A_125682	NW_004515940.1	scaffold479	125682	GG	TT	TT	INTERGENIC			
SNP_74429_A_125762	NW_004515940.1	scaffold479	125762	TT	CC	CC	INTERGENIC			
SNP_74430_A_125771	NW_004515940.1	scaffold479	125771	GG	AA	AA	INTERGENIC			
SNP_74431_A_125820	NW_004515940.1	scaffold479	125820	AA	TT	TT	INTERGENIC			
SNP_74432_A_125831	NW_004515940.1	scaffold479	125831	TT	AA	AA	INTERGENIC			
SNP_74433_A_125906	NW_004515940.1	scaffold479	125906	AA	CC	CC	INTERGENIC			
SNP_74434_A_126038	NW_004515940.1	scaffold479	126038	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74435_A_126076	NW_004515940.1	scaffold479	126076	TT	AA	AA	INTERGENIC			
SNP_74436_A_130453	NW_004515940.1	scaffold479	130453	AA	GG	GG	INTERGENIC			
SNP_74437_A_130461	NW_004515940.1	scaffold479	130461	AA	TT	TT	INTERGENIC			
SNP_74438_A_130498	NW_004515940.1	scaffold479	130498	CC	TT	TT	INTERGENIC			
SNP_74439_A_130607	NW_004515940.1	scaffold479	130607	TT	GG	GG	INTERGENIC			
SNP_74440_A_130651	NW_004515940.1	scaffold479	130651	TT	AA	AA	INTERGENIC			
SNP_74441_A_130715	NW_004515940.1	scaffold479	130715	TT	CC	CC	INTERGENIC			
SNP_74442_A_130764	NW_004515940.1	scaffold479	130764	AA	TT	TT	INTERGENIC			
SNP_74443_A_130956	NW_004515940.1	scaffold479	130956	AA	CC	CC	INTERGENIC			
SNP_74444_A_130961	NW_004515940.1	scaffold479	130961	GG	AA	AA	INTERGENIC			
SNP_74445_A_130969	NW_004515940.1	scaffold479	130969	AA	CC	CC	INTERGENIC			
SNP_74446_A_130971	NW_004515940.1	scaffold479	130971	AA	GG	GG	INTERGENIC			
SNP_74447_A_131012	NW_004515940.1	scaffold479	131012	AA	TT	TT	INTERGENIC			
SNP_74448_A_139204	NW_004515940.1	scaffold479	139204	GG	TT	TT	INTERGENIC			
SNP_74449_A_139218	NW_004515940.1	scaffold479	139218	AA	GG	GG	INTERGENIC			
SNP_74450_A_139290	NW_004515940.1	scaffold479	139290	TT	CC	CC	INTERGENIC			
SNP_74451_A_139345	NW_004515940.1	scaffold479	139345	TT	GG	GG	INTERGENIC			
SNP_74452_A_143059	NW_004515940.1	scaffold479	143059	GG	AA	AA	INTERGENIC			
SNP_74453_A_154718	NW_004515940.1	scaffold479	154718	GG	TT	TT	INTERGENIC			
SNP_74454_A_154748	NW_004515940.1	scaffold479	154748	CC	TT	TT	INTERGENIC			
SNP_74455_A_154771	NW_004515940.1	scaffold479	154771	AA	GG	GG	INTERGENIC			
SNP_74456_A_154781	NW_004515940.1	scaffold479	154781	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74457_A_154848	NW_004515940.1	scaffold479	154848	TT	CC	CC	INTERGENIC		
SNP_74458_A_154951	NW_004515940.1	scaffold479	154951	CC	TT	TT	INTERGENIC		
SNP_74459_A_154976	NW_004515940.1	scaffold479	154976	CC	GG	GG	INTERGENIC		
SNP_74460_A_160016	NW_004515940.1	scaffold479	160016	CC	TT	TT	INTERGENIC		
SNP_74461_A_20118	NW_004515941.1	scaffold480	20118	GG	CC	CC	DRR	101511109	serine/threonine-protein kinase HT1-like
SNP_74462_A_20182	NW_004515941.1	scaffold480	20182	TT	CC	CC	DRR	101511109	serine/threonine-protein kinase HT1-like
SNP_74463_A_20514	NW_004515941.1	scaffold480	20514	TT	CC	CC	INTRON	101511109	serine/threonine-protein kinase HT1-like
SNP_74464_A_33645	NW_004515941.1	scaffold480	33645	TT	CC	CC	INTERGENIC		
SNP_74465_A_33688	NW_004515941.1	scaffold480	33688	CC	AA	AA	INTERGENIC		
SNP_74466_A_33724	NW_004515941.1	scaffold480	33724	CC	TT	TT	INTERGENIC		
SNP_74467_A_33735	NW_004515941.1	scaffold480	33735	AA	CC	CC	INTERGENIC		
SNP_74468_A_33762	NW_004515941.1	scaffold480	33762	AA	GG	GG	INTERGENIC		
SNP_74469_A_34472	NW_004515941.1	scaffold480	34472	AA	GG	GG	INTERGENIC		
SNP_74470_A_42075	NW_004515941.1	scaffold480	42075	AA	CC	CC	INTERGENIC		
SNP_74471_A_43084	NW_004515941.1	scaffold480	43084	GG	AA	AA	INTERGENIC		
SNP_74472_A_43093	NW_004515941.1	scaffold480	43093	AA	GG	GG	INTERGENIC		
SNP_74474_A_43226	NW_004515941.1	scaffold480	43226	TT	CC	CC	INTERGENIC		
SNP_74475_A_43416	NW_004515941.1	scaffold480	43416	GG	AA	AA	INTERGENIC		
SNP_74476_A_43460	NW_004515941.1	scaffold480	43460	CC	TT	TT	INTERGENIC		
SNP_74477_A_43461	NW_004515941.1	scaffold480	43461	TT	CC	CC	INTERGENIC		
SNP_74478_A_43464	NW_004515941.1	scaffold480	43464	TT	GG	GG	INTERGENIC		
SNP_74479_A_43542	NW_004515941.1	scaffold480	43542	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74480_A_43569	NW_004515941.1	scaffold480	43569	AA	GG	GG	INTERGENIC			
SNP_74481_A_43630	NW_004515941.1	scaffold480	43630	TT	CC	CC	INTERGENIC			
SNP_74482_A_43678	NW_004515941.1	scaffold480	43678	GG	AA	AA	INTERGENIC			
SNP_74485_A_13628	NW_004515944.1	scaffold484	13628	TT	CC	CC	INTERGENIC			
SNP_74486_A_15342	NW_004515944.1	scaffold484	15342	TT	AA	AA	INTERGENIC			
SNP_74487_A_15343	NW_004515944.1	scaffold484	15343	TT	AA	AA	INTERGENIC			
SNP_74488_A_15344	NW_004515944.1	scaffold484	15344	GG	TT	TT	INTERGENIC			
SNP_74489_A_15348	NW_004515944.1	scaffold484	15348	CC	AA	AA	INTERGENIC			
SNP_74490_A_15349	NW_004515944.1	scaffold484	15349	AA	CC	CC	INTERGENIC			
SNP_74491_A_27515	NW_004515944.1	scaffold484	27515	CC	GG	GG	INTERGENIC			
SNP_74492_A_27651	NW_004515944.1	scaffold484	27651	CC	AA	AA	INTERGENIC			
SNP_74493_A_27818	NW_004515944.1	scaffold484	27818	CC	AA	AA	INTERGENIC			
SNP_74494_A_27862	NW_004515944.1	scaffold484	27862	CC	TT	TT	INTERGENIC			
SNP_74495_A_27880	NW_004515944.1	scaffold484	27880	AA	GG	GG	INTERGENIC			
SNP_74496_A_34906	NW_004515944.1	scaffold484	34906	TT	CC	CC	INTERGENIC			
SNP_74497_A_96149	NW_004515944.1	scaffold484	96149	AA	GG	GG	INTERGENIC			
SNP_74498_A_96170	NW_004515944.1	scaffold484	96170	AA	GG	GG	INTERGENIC			
SNP_74499_A_96197	NW_004515944.1	scaffold484	96197	AA	GG	GG	INTERGENIC			
SNP_74500_A_136295	NW_004515944.1	scaffold484	136295	AA	GG	GG	INTERGENIC			
SNP_74502_A_209336	NW_004515944.1	scaffold484	209336	AA	GG	GG	DRR	101514878	uncharacterized LOC101514878	
SNP_74503_A_229801	NW_004515944.1	scaffold484	229801	AA	CC	CC	URR	101515205	probable pectate lyase 4	
SNP_74504_A_247010	NW_004515944.1	scaffold484	247010	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74505_A_253027	NW_004515944.1	scaffold484	253027	GG	AA	AA	INTERGENIC		
SNP_74506_A_262783	NW_004515944.1	scaffold484	262783	TT	CC	CC	INTRON	101492176	Unknown function
SNP_74507_A_275474	NW_004515944.1	scaffold484	275474	AA	TT	TT	INTRON	101492176	Unknown function
SNP_74508_A_276158	NW_004515944.1	scaffold484	276158	CC	TT	TT	INTRON	101492176	Unknown function
SNP_74509_A_276556	NW_004515944.1	scaffold484	276556	CC	TT	TT	SYNONYMOUS_CODING	101492176	Unknown function
SNP_74510_A_295734	NW_004515944.1	scaffold484	295734	CC	TT	TT	INTRON	101492515	Unknown function
SNP_74511_A_296026	NW_004515944.1	scaffold484	296026	AA	GG	GG	INTRON	101492515	Unknown function
SNP_74512_A_296070	NW_004515944.1	scaffold484	296070	GG	CC	CC	INTRON	101492515	Unknown function
SNP_74513_A_298354	NW_004515944.1	scaffold484	298354	GG	AA	AA	INTRON	101492515	Unknown function
SNP_74514_A_306675	NW_004515944.1	scaffold484	306675	TT	AA	AA	INTRON	101492515	Unknown function
SNP_74515_A_329089	NW_004515944.1	scaffold484	329089	GG	AA	AA	INTERGENIC		
SNP_74516_A_371913	NW_004515944.1	scaffold484	371913	CC	TT	TT	INTERGENIC		
SNP_74517_A_371915	NW_004515944.1	scaffold484	371915	CC	GG	GG	INTERGENIC		
SNP_74518_A_383483	NW_004515944.1	scaffold484	383483	AA	GG	GG	INTERGENIC		
SNP_74519_A_394520	NW_004515944.1	scaffold484	394520	AA	GG	GG	INTRON	101493498	uncharacterized LOC101493498
SNP_74520_A_394801	NW_004515944.1	scaffold484	394801	CC	TT	TT	INTRON	101493498	uncharacterized LOC101493498
SNP_74521_A_394878	NW_004515944.1	scaffold484	394878	TT	GG	GG	INTRON	101493498	uncharacterized LOC101493498
SNP_74522_A_394971	NW_004515944.1	scaffold484	394971	CC	TT	TT	INTRON	101493498	uncharacterized LOC101493498
SNP_74525_A_452958	NW_004515944.1	scaffold484	452958	AA	GG	GG	INTERGENIC		
SNP_74526_A_453061	NW_004515944.1	scaffold484	453061	AA	GG	GG	INTERGENIC		
SNP_74528_A_453131	NW_004515944.1	scaffold484	453131	GG	AA	AA	INTERGENIC		
SNP_74529_A_453217	NW_004515944.1	scaffold484	453217	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74530_A_453335	NW_004515944.1	scaffold484	453335	AA	TT	TT	INTERGENIC			
SNP_74531_A_453336	NW_004515944.1	scaffold484	453336	AA	GG	GG	INTERGENIC			
SNP_74532_A_453406	NW_004515944.1	scaffold484	453406	AA	GG	GG	INTERGENIC			
SNP_74533_A_458795	NW_004515944.1	scaffold484	458795	CC	TT	TT	INTERGENIC			
SNP_74534_A_459722	NW_004515944.1	scaffold484	459722	AA	GG	GG	INTERGENIC			
SNP_74535_A_484777	NW_004515944.1	scaffold484	484777	TT	GG	GG	INTERGENIC			
SNP_74536_A_510117	NW_004515944.1	scaffold484	510117	AA	GG	GG	INTERGENIC			
SNP_74537_A_516664	NW_004515944.1	scaffold484	516664	GG	AA	AA	INTERGENIC			
SNP_74538_A_532302	NW_004515944.1	scaffold484	532302	GG	AA	AA	INTERGENIC			
SNP_74540_A_578043	NW_004515944.1	scaffold484	578043	GG	TT	TT	INTERGENIC			
SNP_74541_A_578139	NW_004515944.1	scaffold484	578139	CC	TT	TT	INTERGENIC			
SNP_74542_A_578374	NW_004515944.1	scaffold484	578374	AA	GG	GG	INTERGENIC			
SNP_74543_A_578384	NW_004515944.1	scaffold484	578384	TT	CC	CC	INTERGENIC			
SNP_74544_A_578435	NW_004515944.1	scaffold484	578435	TT	GG	GG	INTERGENIC			
SNP_74545_A_578447	NW_004515944.1	scaffold484	578447	AA	TT	TT	INTERGENIC			
SNP_74546_A_587424	NW_004515944.1	scaffold484	587424	TT	GG	GG	INTERGENIC			
SNP_74547_A_589810	NW_004515944.1	scaffold484	589810	CC	TT	TT	INTERGENIC			
SNP_74548_A_590421	NW_004515944.1	scaffold484	590421	CC	TT	TT	INTERGENIC			
SNP_74549_A_590473	NW_004515944.1	scaffold484	590473	AA	CC	CC	INTERGENIC			
SNP_74550_A_608421	NW_004515944.1	scaffold484	608421	AA	TT	TT	INTERGENIC			
SNP_74551_A_621903	NW_004515944.1	scaffold484	621903	CC	AA	AA	INTERGENIC			
SNP_74552_A_627809	NW_004515944.1	scaffold484	627809	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74553_A_632657	NW_004515944.1	scaffold484	632657	GG	AA	AA	INTERGENIC		
SNP_74554_A_632668	NW_004515944.1	scaffold484	632668	GG	AA	AA	INTERGENIC		
SNP_74555_A_641013	NW_004515944.1	scaffold484	641013	GG	AA	AA	DRR	101495424	uncharacterized LOC101495424
SNP_74557_A_656897	NW_004515944.1	scaffold484	656897	TT	GG	GG	INTRON	101495758	Unknown function
SNP_74558_A_704588	NW_004515944.1	scaffold484	704588	TT	AA	AA	INTERGENIC		
SNP_74559_A_704603	NW_004515944.1	scaffold484	704603	AA	CC	CC	INTERGENIC		
SNP_74560_A_704632	NW_004515944.1	scaffold484	704632	CC	TT	TT	INTERGENIC		
SNP_74561_A_704641	NW_004515944.1	scaffold484	704641	CC	TT	TT	INTERGENIC		
SNP_74562_A_704665	NW_004515944.1	scaffold484	704665	GG	AA	AA	INTERGENIC		
SNP_74563_A_704673	NW_004515944.1	scaffold484	704673	AA	CC	CC	INTERGENIC		
SNP_74564_A_704674	NW_004515944.1	scaffold484	704674	GG	AA	AA	INTERGENIC		
SNP_74565_A_704869	NW_004515944.1	scaffold484	704869	AA	GG	GG	INTERGENIC		
SNP_74566_A_704888	NW_004515944.1	scaffold484	704888	AA	GG	GG	INTERGENIC		
SNP_74567_A_719723	NW_004515944.1	scaffold484	719723	CC	TT	TT	INTERGENIC		
SNP_74568_A_719732	NW_004515944.1	scaffold484	719732	CC	TT	TT	INTERGENIC		
SNP_74569_A_719748	NW_004515944.1	scaffold484	719748	AA	GG	GG	INTERGENIC		
SNP_74570_A_736714	NW_004515944.1	scaffold484	736714	CC	TT	TT	INTERGENIC		
SNP_74571_A_736756	NW_004515944.1	scaffold484	736756	AA	GG	GG	INTERGENIC		
SNP_74572_A_736766	NW_004515944.1	scaffold484	736766	AA	CC	CC	INTERGENIC		
SNP_74573_A_736770	NW_004515944.1	scaffold484	736770	AA	GG	GG	INTERGENIC		
SNP_74574_A_736784	NW_004515944.1	scaffold484	736784	CC	TT	TT	INTERGENIC		
SNP_74575_A_763677	NW_004515944.1	scaffold484	763677	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74576_A_764082	NW_004515944.1	scaffold484	764082	AA	GG	GG	INTERGENIC		
SNP_74577_A_764092	NW_004515944.1	scaffold484	764092	AA	GG	GG	INTERGENIC		
SNP_74578_A_764106	NW_004515944.1	scaffold484	764106	AA	CC	CC	INTERGENIC		
SNP_74579_A_764112	NW_004515944.1	scaffold484	764112	AA	CC	CC	INTERGENIC		
SNP_74580_A_764115	NW_004515944.1	scaffold484	764115	TT	CC	CC	INTERGENIC		
SNP_74581_A_784415	NW_004515944.1	scaffold484	784415	AA	GG	GG	INTRON	101496079	Unknown function
SNP_74582_A_788477	NW_004515944.1	scaffold484	788477	GG	AA	AA	INTERGENIC		
SNP_74584_A_794125	NW_004515944.1	scaffold484	794125	AA	CC	CC	INTERGENIC		
SNP_74585_A_3628	NW_004515945.1	scaffold485	3628	GG	TT	TT	INTERGENIC		
SNP_74586_A_4413	NW_004515945.1	scaffold485	4413	GG	AA	AA	INTERGENIC		
SNP_74587_A_20627	NW_004515945.1	scaffold485	20627	AA	GG	GG	DRR	101496739	anthranilate synthase beta subunit 2, chloroplastic-like
SNP_74588_A_92870	NW_004515945.1	scaffold485	92870	GG	AA	AA	INTERGENIC		
SNP_74589_A_92875	NW_004515945.1	scaffold485	92875	TT	AA	AA	INTERGENIC		
SNP_74590_A_92925	NW_004515945.1	scaffold485	92925	TT	GG	GG	INTERGENIC		
SNP_74591_A_121386	NW_004515945.1	scaffold485	121386	TT	CC	CC	INTERGENIC		
SNP_74592_A_131152	NW_004515945.1	scaffold485	131152	AA	GG	GG	INTERGENIC		
SNP_74594_A_148345	NW_004515945.1	scaffold485	148345	CC	TT	TT	INTERGENIC		
SNP_74595_A_165642	NW_004515945.1	scaffold485	165642	GG	AA	AA	INTERGENIC		
SNP_74596_A_165722	NW_004515945.1	scaffold485	165722	AA	GG	GG	INTERGENIC		
SNP_74597_A_165749	NW_004515945.1	scaffold485	165749	TT	GG	GG	INTERGENIC		
SNP_74598_A_165765	NW_004515945.1	scaffold485	165765	GG	AA	AA	INTERGENIC		
SNP_74599_A_165965	NW_004515945.1	scaffold485	165965	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74600_A_165967	NW_004515945.1	scaffold485	165967	AA	CC	CC	INTERGENIC			
SNP_74601_A_166030	NW_004515945.1	scaffold485	166030	AA	TT	TT	INTERGENIC			
SNP_74602_A_166031	NW_004515945.1	scaffold485	166031	AA	TT	TT	INTERGENIC			
SNP_74603_A_9357	NW_004515946.1	scaffold486	9357	TT	CC	CC	INTERGENIC			
SNP_74604_A_9399	NW_004515946.1	scaffold486	9399	GG	AA	AA	INTERGENIC			
SNP_74605_A_9705	NW_004515946.1	scaffold486	9705	TT	AA	AA	INTERGENIC			
SNP_74606_A_9746	NW_004515946.1	scaffold486	9746	CC	TT	TT	INTERGENIC			
SNP_74607_A_9764	NW_004515946.1	scaffold486	9764	AA	GG	GG	INTERGENIC			
SNP_74608_A_25883	NW_004515946.1	scaffold486	25883	GG	CC	CC	INTERGENIC			
SNP_74609_A_26029	NW_004515946.1	scaffold486	26029	GG	TT	TT	INTERGENIC			
SNP_74610_A_33364	NW_004515946.1	scaffold486	33364	TT	CC	CC	INTERGENIC			
SNP_74611_A_45336	NW_004515946.1	scaffold486	45336	TT	CC	CC	INTERGENIC			
SNP_74612_A_45607	NW_004515946.1	scaffold486	45607	GG	AA	AA	INTERGENIC			
SNP_74613_A_64256	NW_004515946.1	scaffold486	64256	AA	TT	TT	INTERGENIC			
SNP_74614_A_78831	NW_004515946.1	scaffold486	78831	GG	TT	TT	INTERGENIC			
SNP_74615_A_88073	NW_004515946.1	scaffold486	88073	TT	CC	CC	INTERGENIC			
SNP_74616_A_99521	NW_004515946.1	scaffold486	99521	GG	AA	AA	INTERGENIC			
SNP_74617_A_102151	NW_004515946.1	scaffold486	102151	AA	GG	GG	INTERGENIC			
SNP_74618_A_103616	NW_004515946.1	scaffold486	103616	TT	GG	GG	INTERGENIC			
SNP_74619_A_103627	NW_004515946.1	scaffold486	103627	AA	GG	GG	INTERGENIC			
SNP_74620_A_103993	NW_004515946.1	scaffold486	103993	AA	TT	TT	INTERGENIC			
SNP_74621_A_103997	NW_004515946.1	scaffold486	103997	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74622_A_109417	NW_004515946.1	scaffold486	109417	AA	CC	CC	INTERGENIC			
SNP_74624_A_109453	NW_004515946.1	scaffold486	109453	AA	TT	TT	INTERGENIC			
SNP_74625_A_109457	NW_004515946.1	scaffold486	109457	CC	AA	AA	INTERGENIC			
SNP_74626_A_116444	NW_004515946.1	scaffold486	116444	AA	GG	GG	INTERGENIC			
SNP_74627_A_116852	NW_004515946.1	scaffold486	116852	CC	TT	TT	INTERGENIC			
SNP_74628_A_116859	NW_004515946.1	scaffold486	116859	CC	AA	AA	INTERGENIC			
SNP_74629_A_118812	NW_004515946.1	scaffold486	118812	GG	TT	TT	INTERGENIC			
SNP_74630_A_118828	NW_004515946.1	scaffold486	118828	GG	AA	AA	INTERGENIC			
SNP_74631_A_119287	NW_004515946.1	scaffold486	119287	CC	TT	TT	INTERGENIC			
SNP_74632_A_119302	NW_004515946.1	scaffold486	119302	AA	GG	GG	INTERGENIC			
SNP_74633_A_128335	NW_004515946.1	scaffold486	128335	CC	TT	TT	INTERGENIC			
SNP_74634_A_156511	NW_004515946.1	scaffold486	156511	AA	GG	GG	INTERGENIC			
SNP_74635_A_156614	NW_004515946.1	scaffold486	156614	GG	CC	CC	INTERGENIC			
SNP_74636_A_156629	NW_004515946.1	scaffold486	156629	CC	TT	TT	INTERGENIC			
SNP_74637_A_156657	NW_004515946.1	scaffold486	156657	AA	TT	TT	INTERGENIC			
SNP_74638_A_156659	NW_004515946.1	scaffold486	156659	TT	CC	CC	INTERGENIC			
SNP_74639_A_156661	NW_004515946.1	scaffold486	156661	CC	TT	TT	INTERGENIC			
SNP_74640_A_156890	NW_004515946.1	scaffold486	156890	TT	CC	CC	INTERGENIC			
SNP_74641_A_188995	NW_004515946.1	scaffold486	188995	AA	CC	CC	INTERGENIC			
SNP_74642_A_197035	NW_004515946.1	scaffold486	197035	CC	TT	TT	INTERGENIC			
SNP_74643_A_197042	NW_004515946.1	scaffold486	197042	AA	TT	TT	INTERGENIC			
SNP_74644_A_197341	NW_004515946.1	scaffold486	197341	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74645_A_204489	NW_004515946.1	scaffold486	204489	AA	GG	GG	INTERGENIC			
SNP_74646_A_206764	NW_004515946.1	scaffold486	206764	TT	AA	AA	INTERGENIC			
SNP_74647_A_206821	NW_004515946.1	scaffold486	206821	CC	TT	TT	INTERGENIC			
SNP_74648_A_209796	NW_004515946.1	scaffold486	209796	AA	CC	CC	INTERGENIC			
SNP_74649_A_213880	NW_004515946.1	scaffold486	213880	AA	TT	TT	INTERGENIC			
SNP_74650_A_1704	NW_004515947.1	scaffold487	1704	GG	CC	CC	INTERGENIC			
SNP_74651_A_1740	NW_004515947.1	scaffold487	1740	TT	CC	CC	INTERGENIC			
SNP_74652_A_1890	NW_004515947.1	scaffold487	1890	CC	TT	TT	INTERGENIC			
SNP_74653_A_1899	NW_004515947.1	scaffold487	1899	GG	AA	AA	INTERGENIC			
SNP_74654_A_1940	NW_004515947.1	scaffold487	1940	AA	GG	GG	INTERGENIC			
SNP_74655_A_2096	NW_004515947.1	scaffold487	2096	GG	AA	AA	INTERGENIC			
SNP_74656_A_2100	NW_004515947.1	scaffold487	2100	CC	TT	TT	INTERGENIC			
SNP_74657_A_2130	NW_004515947.1	scaffold487	2130	AA	CC	CC	INTERGENIC			
SNP_74658_A_2253	NW_004515947.1	scaffold487	2253	GG	AA	AA	INTERGENIC			
SNP_74659_A_2302	NW_004515947.1	scaffold487	2302	TT	CC	CC	INTERGENIC			
SNP_74660_A_2346	NW_004515947.1	scaffold487	2346	CC	AA	AA	INTERGENIC			
SNP_74661_A_2425	NW_004515947.1	scaffold487	2425	TT	CC	CC	INTERGENIC			
SNP_74662_A_10375	NW_004515947.1	scaffold487	10375	CC	TT	TT	INTERGENIC			
SNP_74663_A_10429	NW_004515947.1	scaffold487	10429	TT	CC	CC	INTERGENIC			
SNP_74664_A_10446	NW_004515947.1	scaffold487	10446	GG	AA	AA	INTERGENIC			
SNP_74665_A_10549	NW_004515947.1	scaffold487	10549	AA	GG	GG	INTERGENIC			
SNP_74666_A_31026	NW_004515947.1	scaffold487	31026	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74667_A_37715	NW_004515947.1	scaffold487	37715	CC	AA	AA	INTERGENIC			
SNP_74668_A_40423	NW_004515947.1	scaffold487	40423	TT	CC	CC	INTERGENIC			
SNP_74669_A_40499	NW_004515947.1	scaffold487	40499	TT	AA	AA	INTERGENIC			
SNP_74670_A_40627	NW_004515947.1	scaffold487	40627	TT	CC	CC	INTERGENIC			
SNP_74671_A_40674	NW_004515947.1	scaffold487	40674	TT	CC	CC	INTERGENIC			
SNP_74672_A_40691	NW_004515947.1	scaffold487	40691	CC	GG	GG	INTERGENIC			
SNP_74673_A_40728	NW_004515947.1	scaffold487	40728	TT	AA	AA	INTERGENIC			
SNP_74674_A_40861	NW_004515947.1	scaffold487	40861	AA	CC	CC	INTERGENIC			
SNP_74675_A_40938	NW_004515947.1	scaffold487	40938	TT	CC	CC	INTERGENIC			
SNP_74676_A_40960	NW_004515947.1	scaffold487	40960	CC	AA	AA	INTERGENIC			
SNP_74677_A_40981	NW_004515947.1	scaffold487	40981	TT	CC	CC	INTERGENIC			
SNP_74679_A_51310	NW_004515947.1	scaffold487	51310	GG	AA	AA	INTERGENIC			
SNP_74680_A_61612	NW_004515947.1	scaffold487	61612	TT	GG	GG	INTERGENIC			
SNP_74681_A_61666	NW_004515947.1	scaffold487	61666	GG	AA	AA	INTERGENIC			
SNP_74682_A_61667	NW_004515947.1	scaffold487	61667	AA	GG	GG	INTERGENIC			
SNP_74683_A_67440	NW_004515947.1	scaffold487	67440	TT	GG	GG	INTERGENIC			
SNP_74684_A_67486	NW_004515947.1	scaffold487	67486	TT	CC	CC	INTERGENIC			
SNP_74685_A_67539	NW_004515947.1	scaffold487	67539	AA	CC	CC	INTERGENIC			
SNP_74686_A_73469	NW_004515947.1	scaffold487	73469	TT	AA	AA	INTERGENIC			
SNP_74687_A_76655	NW_004515947.1	scaffold487	76655	TT	CC	CC	INTERGENIC			
SNP_74688_A_80602	NW_004515947.1	scaffold487	80602	AA	GG	GG	INTERGENIC			
SNP_74689_A_80604	NW_004515947.1	scaffold487	80604	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74690_A_83690	NW_004515947.1	scaffold487	83690	CC	AA	AA	INTERGENIC			
SNP_74691_A_83694	NW_004515947.1	scaffold487	83694	GG	AA	AA	INTERGENIC			
SNP_74692_A_83699	NW_004515947.1	scaffold487	83699	GG	AA	AA	INTERGENIC			
SNP_74693_A_83718	NW_004515947.1	scaffold487	83718	AA	TT	TT	INTERGENIC			
SNP_74694_A_83728	NW_004515947.1	scaffold487	83728	CC	TT	TT	INTERGENIC			
SNP_74695_A_83750	NW_004515947.1	scaffold487	83750	TT	GG	GG	INTERGENIC			
SNP_74696_A_83754	NW_004515947.1	scaffold487	83754	CC	TT	TT	INTERGENIC			
SNP_74697_A_84071	NW_004515947.1	scaffold487	84071	GG	TT	TT	INTERGENIC			
SNP_74698_A_84110	NW_004515947.1	scaffold487	84110	GG	TT	TT	INTERGENIC			
SNP_74700_A_364	NW_004515950.1	scaffold491	364	AA	CC	CC	INTERGENIC			
SNP_74701_A_8756	NW_004515950.1	scaffold491	8756	AA	CC	CC	INTERGENIC			
SNP_74702_A_8757	NW_004515950.1	scaffold491	8757	GG	CC	CC	INTERGENIC			
SNP_74703_A_9036	NW_004515950.1	scaffold491	9036	TT	AA	AA	INTERGENIC			
SNP_74704_A_9037	NW_004515950.1	scaffold491	9037	GG	AA	AA	INTERGENIC			
SNP_74705_A_9053	NW_004515950.1	scaffold491	9053	TT	AA	AA	INTERGENIC			
SNP_74706_A_9283	NW_004515950.1	scaffold491	9283	GG	CC	CC	INTERGENIC			
SNP_74707_A_9529	NW_004515950.1	scaffold491	9529	GG	AA	AA	INTERGENIC			
SNP_74708_A_11390	NW_004515950.1	scaffold491	11390	CC	AA	AA	INTERGENIC			
SNP_74709_A_11412	NW_004515950.1	scaffold491	11412	AA	GG	GG	INTERGENIC			
SNP_74710_A_11423	NW_004515950.1	scaffold491	11423	TT	CC	CC	INTERGENIC			
SNP_74711_A_11727	NW_004515950.1	scaffold491	11727	CC	TT	TT	INTERGENIC			
SNP_74712_A_11871	NW_004515950.1	scaffold491	11871	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74713_A_11904	NW_004515950.1	scaffold491	11904	TT	CC	CC	INTERGENIC			
SNP_74714_A_12517	NW_004515950.1	scaffold491	12517	AA	GG	GG	INTERGENIC			
SNP_74715_A_15831	NW_004515950.1	scaffold491	15831	GG	AA	AA	INTERGENIC			
SNP_74716_A_15867	NW_004515950.1	scaffold491	15867	AA	GG	GG	INTERGENIC			
SNP_74717_A_20298	NW_004515950.1	scaffold491	20298	TT	CC	CC	INTERGENIC			
SNP_74718_A_20308	NW_004515950.1	scaffold491	20308	GG	AA	AA	INTERGENIC			
SNP_74719_A_21389	NW_004515950.1	scaffold491	21389	TT	CC	CC	INTERGENIC			
SNP_74720_A_22549	NW_004515950.1	scaffold491	22549	TT	CC	CC	INTERGENIC			
SNP_74721_A_22654	NW_004515950.1	scaffold491	22654	AA	GG	GG	INTERGENIC			
SNP_74722_A_22657	NW_004515950.1	scaffold491	22657	GG	TT	TT	INTERGENIC			
SNP_74723_A_22728	NW_004515950.1	scaffold491	22728	TT	AA	AA	INTERGENIC			
SNP_74724_A_23339	NW_004515950.1	scaffold491	23339	AA	GG	GG	INTERGENIC			
SNP_74725_A_23629	NW_004515950.1	scaffold491	23629	CC	TT	TT	INTERGENIC			
SNP_74726_A_26631	NW_004515950.1	scaffold491	26631	AA	GG	GG	INTERGENIC			
SNP_74727_A_26923	NW_004515950.1	scaffold491	26923	GG	CC	CC	INTERGENIC			
SNP_74728_A_27043	NW_004515950.1	scaffold491	27043	AA	CC	CC	INTERGENIC			
SNP_74729_A_27330	NW_004515950.1	scaffold491	27330	AA	TT	TT	INTERGENIC			
SNP_74730_A_29093	NW_004515950.1	scaffold491	29093	CC	GG	GG	INTERGENIC			
SNP_74731_A_29174	NW_004515950.1	scaffold491	29174	AA	GG	GG	INTERGENIC			
SNP_74732_A_29330	NW_004515950.1	scaffold491	29330	AA	GG	GG	INTERGENIC			
SNP_74733_A_29389	NW_004515950.1	scaffold491	29389	CC	GG	GG	INTERGENIC			
SNP_74734_A_29492	NW_004515950.1	scaffold491	29492	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74735_A_519	NW_004515951.1	scaffold492	519	CC	AA	AA	INTERGENIC			
SNP_74736_A_684	NW_004515951.1	scaffold492	684	CC	AA	AA	INTERGENIC			
SNP_74737_A_737	NW_004515951.1	scaffold492	737	AA	GG	GG	INTERGENIC			
SNP_74738_A_751	NW_004515951.1	scaffold492	751	CC	AA	AA	INTERGENIC			
SNP_74739_A_914	NW_004515951.1	scaffold492	914	CC	AA	AA	INTERGENIC			
SNP_74740_A_1195	NW_004515951.1	scaffold492	1195	GG	AA	AA	INTERGENIC			
SNP_74741_A_1785	NW_004515951.1	scaffold492	1785	CC	AA	AA	INTERGENIC			
SNP_74742_A_6158	NW_004515951.1	scaffold492	6158	TT	AA	AA	INTERGENIC			
SNP_74743_A_15069	NW_004515951.1	scaffold492	15069	GG	TT	TT	INTERGENIC			
SNP_74744_A_15083	NW_004515951.1	scaffold492	15083	GG	TT	TT	INTERGENIC			
SNP_74745_A_15103	NW_004515951.1	scaffold492	15103	AA	TT	TT	INTERGENIC			
SNP_74746_A_15115	NW_004515951.1	scaffold492	15115	GG	AA	AA	INTERGENIC			
SNP_74747_A_15411	NW_004515951.1	scaffold492	15411	CC	TT	TT	INTERGENIC			
SNP_74748_A_23536	NW_004515951.1	scaffold492	23536	CC	TT	TT	INTERGENIC			
SNP_74749_A_23565	NW_004515951.1	scaffold492	23565	CC	GG	GG	INTERGENIC			
SNP_74750_A_23849	NW_004515951.1	scaffold492	23849	CC	AA	AA	INTERGENIC			
SNP_74751_A_23850	NW_004515951.1	scaffold492	23850	CC	GG	GG	INTERGENIC			
SNP_74752_A_23856	NW_004515951.1	scaffold492	23856	AA	CC	CC	INTERGENIC			
SNP_74753_A_23916	NW_004515951.1	scaffold492	23916	AA	TT	TT	INTERGENIC			
SNP_74754_A_35256	NW_004515951.1	scaffold492	35256	GG	CC	CC	INTERGENIC			
SNP_74755_A_35311	NW_004515951.1	scaffold492	35311	CC	AA	AA	INTERGENIC			
SNP_74756_A_35638	NW_004515951.1	scaffold492	35638	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74757_A_35988	NW_004515951.1	scaffold492	35988	GG	TT	TT	INTERGENIC		
SNP_74758_A_36135	NW_004515951.1	scaffold492	36135	GG	CC	AA	INTERGENIC		
SNP_74759_A_36205	NW_004515951.1	scaffold492	36205	GG	AA	AA	INTERGENIC		
SNP_74760_A_36568	NW_004515951.1	scaffold492	36568	CC	TT	TT	INTERGENIC		
SNP_74761_A_36848	NW_004515951.1	scaffold492	36848	GG	TT	TT	INTERGENIC		
SNP_74762_A_36980	NW_004515951.1	scaffold492	36980	TT	GG	GG	INTERGENIC		
SNP_74763_A_36985	NW_004515951.1	scaffold492	36985	CC	TT	TT	INTERGENIC		
SNP_74765_A_45043	NW_004515952.1	scaffold493	45043	CC	TT	TT	NON_SYNONYMOUS_CODING	101501990	Unknown function
SNP_74766_A_45083	NW_004515952.1	scaffold493	45083	TT	CC	CC	NON_SYNONYMOUS_CODING	101501990	Unknown function
SNP_74767_A_45216	NW_004515952.1	scaffold493	45216	TT	CC	CC	SYNONYMOUS_CODING	101501990	Unknown function
SNP_74768_A_47423	NW_004515952.1	scaffold493	47423	CC	TT	TT	URR	101501990	Unknown function
SNP_74769_A_47513	NW_004515952.1	scaffold493	47513	GG	AA	AA	URR	101501990	Unknown function
SNP_74770_A_47717	NW_004515952.1	scaffold493	47717	CC	TT	TT	URR	101501990	Unknown function
SNP_74771_A_47831	NW_004515952.1	scaffold493	47831	AA	GG	GG	URR	101501990	Unknown function
SNP_74772_A_50578	NW_004515952.1	scaffold493	50578	AA	GG	GG	INTERGENIC		
SNP_74773_A_57205	NW_004515952.1	scaffold493	57205	CC	AA	AA	NON_SYNONYMOUS_CODING	101502319	Unknown function
SNP_74774_A_62028	NW_004515952.1	scaffold493	62028	AA	GG	GG	INTERGENIC		
SNP_74775_A_71003	NW_004515952.1	scaffold493	71003	TT	CC	CC	INTERGENIC		
SNP_74776_A_71013	NW_004515952.1	scaffold493	71013	CC	TT	TT	INTERGENIC		
SNP_74777_A_71497	NW_004515952.1	scaffold493	71497	TT	CC	CC	INTERGENIC		
SNP_74778_A_84504	NW_004515952.1	scaffold493	84504	TT	AA	AA	INTERGENIC		
SNP_74779_A_84546	NW_004515952.1	scaffold493	84546	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74780_A_84558	NW_004515952.1	scaffold493	84558	AA	TT	TT	INTERGENIC			
SNP_74781_A_84588	NW_004515952.1	scaffold493	84588	AA	TT	TT	INTERGENIC			
SNP_74782_A_86667	NW_004515952.1	scaffold493	86667	CC	TT	TT	INTERGENIC			
SNP_74783_A_86677	NW_004515952.1	scaffold493	86677	AA	GG	GG	INTERGENIC			
SNP_74784_A_87715	NW_004515952.1	scaffold493	87715	AA	CC	CC	INTERGENIC			
SNP_74785_A_87921	NW_004515952.1	scaffold493	87921	TT	CC	CC	INTERGENIC			
SNP_74786_A_87959	NW_004515952.1	scaffold493	87959	TT	CC	CC	INTERGENIC			
SNP_74787_A_87961	NW_004515952.1	scaffold493	87961	AA	GG	GG	INTERGENIC			
SNP_74788_A_87969	NW_004515952.1	scaffold493	87969	GG	CC	CC	INTERGENIC			
SNP_74789_A_87998	NW_004515952.1	scaffold493	87998	AA	GG	GG	INTERGENIC			
SNP_74790_A_88390	NW_004515952.1	scaffold493	88390	GG	AA	AA	INTERGENIC			
SNP_74791_A_88480	NW_004515952.1	scaffold493	88480	AA	GG	GG	INTERGENIC			
SNP_74792_A_88483	NW_004515952.1	scaffold493	88483	AA	GG	GG	INTERGENIC			
SNP_74793_A_88503	NW_004515952.1	scaffold493	88503	CC	AA	AA	INTERGENIC			
SNP_74794_A_88505	NW_004515952.1	scaffold493	88505	TT	AA	AA	INTERGENIC			
SNP_74795_A_88517	NW_004515952.1	scaffold493	88517	AA	GG	GG	INTERGENIC			
SNP_74796_A_93853	NW_004515952.1	scaffold493	93853	CC	TT	TT	INTERGENIC			
SNP_74797_A_102736	NW_004515952.1	scaffold493	102736	TT	GG	GG	INTERGENIC			
SNP_74798_A_124100	NW_004515952.1	scaffold493	124100	CC	TT	TT	INTERGENIC			
SNP_74799_A_124120	NW_004515952.1	scaffold493	124120	CC	TT	TT	INTERGENIC			
SNP_74800_A_124421	NW_004515952.1	scaffold493	124421	AA	GG	GG	INTERGENIC			
SNP_74801_A_124463	NW_004515952.1	scaffold493	124463	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74802_A_125061	NW_004515952.1	scaffold493	125061	TT	CC	CC	INTERGENIC			
SNP_74803_A_125528	NW_004515952.1	scaffold493	125528	CC	TT	TT	INTERGENIC			
SNP_74804_A_125663	NW_004515952.1	scaffold493	125663	TT	CC	CC	INTERGENIC			
SNP_74805_A_138165	NW_004515952.1	scaffold493	138165	CC	GG	GG	INTERGENIC			
SNP_74806_A_138177	NW_004515952.1	scaffold493	138177	GG	AA	AA	INTERGENIC			
SNP_74807_A_138187	NW_004515952.1	scaffold493	138187	AA	GG	GG	INTERGENIC			
SNP_74808_A_138241	NW_004515952.1	scaffold493	138241	AA	GG	GG	INTERGENIC			
SNP_74809_A_138605	NW_004515952.1	scaffold493	138605	AA	CC	CC	INTERGENIC			
SNP_74810_A_142513	NW_004515952.1	scaffold493	142513	AA	CC	CC	INTERGENIC			
SNP_74811_A_142741	NW_004515952.1	scaffold493	142741	AA	CC	CC	INTERGENIC			
SNP_74812_A_142759	NW_004515952.1	scaffold493	142759	CC	TT	TT	INTERGENIC			
SNP_74813_A_142770	NW_004515952.1	scaffold493	142770	TT	CC	CC	INTERGENIC			
SNP_74814_A_142792	NW_004515952.1	scaffold493	142792	AA	GG	GG	INTERGENIC			
SNP_74815_A_142836	NW_004515952.1	scaffold493	142836	TT	AA	AA	INTERGENIC			
SNP_74816_A_144384	NW_004515952.1	scaffold493	144384	AA	GG	GG	INTERGENIC			
SNP_74818_A_184492	NW_004515952.1	scaffold493	184492	AA	GG	GG	INTERGENIC			
SNP_74819_A_185476	NW_004515952.1	scaffold493	185476	TT	CC	CC	INTERGENIC			
SNP_74820_A_185615	NW_004515952.1	scaffold493	185615	TT	CC	CC	INTERGENIC			
SNP_74821_A_217771	NW_004515952.1	scaffold493	217771	AA	TT	TT	URR	101504890	uncharacterized LOC101504890	
SNP_74823_A_222128	NW_004515952.1	scaffold493	222128	AA	GG	GG	INTERGENIC			
SNP_74824_A_269140	NW_004515952.1	scaffold493	269140	CC	AA	AA	INTERGENIC			
SNP_74825_A_293172	NW_004515952.1	scaffold493	293172	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74826_A_293443	NW_004515952.1	scaffold493	293443	CC	TT	TT	INTERGENIC		
SNP_74827_A_294172	NW_004515952.1	scaffold493	294172	AA	TT	TT	INTERGENIC		
SNP_74829_A_297073	NW_004515952.1	scaffold493	297073	TT	GG	GG	INTERGENIC		
SNP_74830_A_297332	NW_004515952.1	scaffold493	297332	TT	AA	AA	INTERGENIC		
SNP_74831_A_297334	NW_004515952.1	scaffold493	297334	AA	GG	GG	INTERGENIC		
SNP_74832_A_297749	NW_004515952.1	scaffold493	297749	CC	TT	TT	INTERGENIC		
SNP_74833_A_9720	NW_004515953.1	scaffold495	9720	TT	CC	CC	INTERGENIC		
SNP_74834_A_19639	NW_004515953.1	scaffold495	19639	GG	AA	AA	INTERGENIC		
SNP_74835_A_25991	NW_004515953.1	scaffold495	25991	AA	TT	TT	INTERGENIC		
SNP_74836_A_26654	NW_004515953.1	scaffold495	26654	CC	TT	TT	INTERGENIC		
SNP_74837_A_28694	NW_004515953.1	scaffold495	28694	TT	CC	CC	INTERGENIC		
SNP_74839_A_35255	NW_004515953.1	scaffold495	35255	CC	TT	TT	INTERGENIC		
SNP_74840_A_70474	NW_004515953.1	scaffold495	70474	AA	TT	TT	INTERGENIC		
SNP_74841_A_87827	NW_004515953.1	scaffold495	87827	AA	GG	GG	DRR	101505515	uncharacterized LOC101505515
SNP_74842_A_97153	NW_004515953.1	scaffold495	97153	AA	CC	CC	INTERGENIC		
SNP_74843_A_97410	NW_004515953.1	scaffold495	97410	AA	GG	GG	INTERGENIC		
SNP_74844_A_112258	NW_004515953.1	scaffold495	112258	CC	TT	TT	INTERGENIC		
SNP_74845_A_119913	NW_004515953.1	scaffold495	119913	TT	CC	CC	INTERGENIC		
SNP_74846_A_125743	NW_004515953.1	scaffold495	125743	TT	AA	AA	DRR	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74848_A_126715	NW_004515953.1	scaffold495	126715	CC	TT	TT	DRR	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74849_A_132779	NW_004515953.1	scaffold495	132779	TT	AA	AA	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74850_A_132838	NW_004515953.1	scaffold495	132838	TT	AA	AA	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_74851_A_132853	NW_004515953.1	scaffold495	132853	GG	TT	TT	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74852_A_132886	NW_004515953.1	scaffold495	132886	CC	TT	TT	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74853_A_132930	NW_004515953.1	scaffold495	132930	TT	CC	CC	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74854_A_132975	NW_004515953.1	scaffold495	132975	CC	TT	TT	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74855_A_133397	NW_004515953.1	scaffold495	133397	GG	TT	TT	INTRON	101506074	ethylene-responsive transcription factor RAP2-7-like
SNP_74856_A_137702	NW_004515953.1	scaffold495	137702	AA	CC	CC	INTERGENIC		
SNP_74857_A_142398	NW_004515953.1	scaffold495	142398	GG	AA	AA	INTERGENIC		
SNP_74858_A_11517	NW_004515954.1	scaffold496	11517	CC	GG	GG	INTERGENIC		
SNP_74859_A_11555	NW_004515954.1	scaffold496	11555	AA	CC	CC	INTERGENIC		
SNP_74860_A_11565	NW_004515954.1	scaffold496	11565	AA	GG	GG	INTERGENIC		
SNP_74861_A_11591	NW_004515954.1	scaffold496	11591	AA	CC	CC	INTERGENIC		
SNP_74862_A_34215	NW_004515954.1	scaffold496	34215	AA	TT	TT	INTERGENIC		
SNP_74863_A_34270	NW_004515954.1	scaffold496	34270	CC	TT	TT	INTERGENIC		
SNP_74864_A_34430	NW_004515954.1	scaffold496	34430	AA	GG	GG	INTERGENIC		
SNP_74865_A_37435	NW_004515954.1	scaffold496	37435	TT	GG	GG	INTERGENIC		
SNP_74866_A_41951	NW_004515954.1	scaffold496	41951	AA	GG	GG	INTERGENIC		
SNP_74867_A_41959	NW_004515954.1	scaffold496	41959	TT	CC	CC	INTERGENIC		
SNP_74868_A_42139	NW_004515954.1	scaffold496	42139	AA	GG	GG	INTERGENIC		
SNP_74869_A_42147	NW_004515954.1	scaffold496	42147	AA	TT	TT	INTERGENIC		
SNP_74870_A_42246	NW_004515954.1	scaffold496	42246	TT	CC	CC	INTERGENIC		
SNP_74871_A_42338	NW_004515954.1	scaffold496	42338	AA	GG	GG	INTERGENIC		
SNP_74872_A_42406	NW_004515954.1	scaffold496	42406	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74873_A_42471	NW_004515954.1	scaffold496	42471	AA	CC	CC	INTERGENIC			
SNP_74874_A_42490	NW_004515954.1	scaffold496	42490	AA	GG	GG	INTERGENIC			
SNP_74875_A_42517	NW_004515954.1	scaffold496	42517	GG	CC	CC	INTERGENIC			
SNP_74876_A_42524	NW_004515954.1	scaffold496	42524	GG	AA	AA	INTERGENIC			
SNP_74877_A_42583	NW_004515954.1	scaffold496	42583	CC	TT	TT	INTERGENIC			
SNP_74878_A_48930	NW_004515954.1	scaffold496	48930	GG	AA	AA	INTERGENIC			
SNP_74879_A_49835	NW_004515954.1	scaffold496	49835	GG	TT	TT	INTERGENIC			
SNP_74880_A_49838	NW_004515954.1	scaffold496	49838	AA	GG	GG	INTERGENIC			
SNP_74882_A_55006	NW_004515954.1	scaffold496	55006	AA	GG	GG	INTERGENIC			
SNP_74883_A_55055	NW_004515954.1	scaffold496	55055	AA	CC	TT	INTERGENIC			
SNP_74884_A_56038	NW_004515954.1	scaffold496	56038	CC	GG	GG	INTERGENIC			
SNP_74885_A_82759	NW_004515954.1	scaffold496	82759	GG	AA	AA	INTERGENIC			
SNP_74886_A_83275	NW_004515954.1	scaffold496	83275	AA	TT	TT	INTERGENIC			
SNP_74887_A_94270	NW_004515954.1	scaffold496	94270	TT	AA	AA	INTERGENIC			
SNP_74888_A_101426	NW_004515954.1	scaffold496	101426	TT	GG	GG	INTERGENIC			
SNP_74889_A_116443	NW_004515954.1	scaffold496	116443	TT	AA	AA	INTERGENIC			
SNP_74890_A_116467	NW_004515954.1	scaffold496	116467	AA	TT	TT	INTERGENIC			
SNP_74892_A_121465	NW_004515954.1	scaffold496	121465	CC	TT	TT	INTERGENIC			
SNP_74893_A_121672	NW_004515954.1	scaffold496	121672	GG	CC	CC	INTERGENIC			
SNP_74894_A_121680	NW_004515954.1	scaffold496	121680	CC	AA	AA	INTERGENIC			
SNP_74895_A_122449	NW_004515954.1	scaffold496	122449	GG	AA	AA	INTERGENIC			
SNP_74896_A_122467	NW_004515954.1	scaffold496	122467	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74897_A_122482	NW_004515954.1	scaffold496	122482	GG	TT	TT	INTERGENIC			
SNP_74898_A_122500	NW_004515954.1	scaffold496	122500	GG	TT	TT	INTERGENIC			
SNP_74899_A_122720	NW_004515954.1	scaffold496	122720	CC	GG	GG	INTERGENIC			
SNP_74900_A_123163	NW_004515954.1	scaffold496	123163	AA	GG	GG	INTERGENIC			
SNP_74901_A_123948	NW_004515954.1	scaffold496	123948	AA	GG	GG	INTERGENIC			
SNP_74902_A_124011	NW_004515954.1	scaffold496	124011	TT	CC	CC	INTERGENIC			
SNP_74903_A_124197	NW_004515954.1	scaffold496	124197	TT	CC	CC	INTERGENIC			
SNP_74904_A_124237	NW_004515954.1	scaffold496	124237	CC	TT	TT	INTERGENIC			
SNP_74905_A_124258	NW_004515954.1	scaffold496	124258	CC	TT	TT	INTERGENIC			
SNP_74906_A_124280	NW_004515954.1	scaffold496	124280	TT	AA	AA	INTERGENIC			
SNP_74907_A_124281	NW_004515954.1	scaffold496	124281	TT	CC	CC	INTERGENIC			
SNP_74908_A_124377	NW_004515954.1	scaffold496	124377	AA	GG	GG	INTERGENIC			
SNP_74909_A_129166	NW_004515954.1	scaffold496	129166	CC	GG	GG	INTERGENIC			
SNP_74910_A_129220	NW_004515954.1	scaffold496	129220	TT	GG	GG	INTERGENIC			
SNP_74911_A_129416	NW_004515954.1	scaffold496	129416	GG	CC	CC	INTERGENIC			
SNP_74912_A_129651	NW_004515954.1	scaffold496	129651	CC	GG	GG	INTERGENIC			
SNP_74913_A_129678	NW_004515954.1	scaffold496	129678	AA	GG	GG	INTERGENIC			
SNP_74914_A_144761	NW_004515954.1	scaffold496	144761	TT	CC	CC	INTERGENIC			
SNP_74915_A_145132	NW_004515954.1	scaffold496	145132	CC	GG	GG	INTERGENIC			
SNP_74916_A_145174	NW_004515954.1	scaffold496	145174	AA	GG	GG	INTERGENIC			
SNP_74917_A_145194	NW_004515954.1	scaffold496	145194	AA	GG	GG	INTERGENIC			
SNP_74918_A_166014	NW_004515954.1	scaffold496	166014	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74919_A_184593	NW_004515954.1	scaffold496	184593	AA	TT	TT	INTERGENIC			
SNP_74920_A_184641	NW_004515954.1	scaffold496	184641	TT	CC	CC	INTERGENIC			
SNP_74921_A_184705	NW_004515954.1	scaffold496	184705	TT	AA	AA	INTERGENIC			
SNP_74922_A_190768	NW_004515954.1	scaffold496	190768	TT	GG	GG	INTERGENIC			
SNP_74923_A_190775	NW_004515954.1	scaffold496	190775	AA	GG	GG	INTERGENIC			
SNP_74924_A_190837	NW_004515954.1	scaffold496	190837	CC	AA	AA	INTERGENIC			
SNP_74925_A_191232	NW_004515954.1	scaffold496	191232	CC	GG	GG	INTERGENIC			
SNP_74926_A_196781	NW_004515954.1	scaffold496	196781	GG	CC	CC	INTERGENIC			
SNP_74927_A_197527	NW_004515954.1	scaffold496	197527	TT	CC	CC	INTERGENIC			
SNP_74928_A_205287	NW_004515954.1	scaffold496	205287	TT	CC	CC	INTERGENIC			
SNP_74930_A_217087	NW_004515954.1	scaffold496	217087	GG	AA	AA	INTERGENIC			
SNP_74931_A_217090	NW_004515954.1	scaffold496	217090	AA	GG	GG	INTERGENIC			
SNP_74932_A_219482	NW_004515954.1	scaffold496	219482	CC	TT	TT	INTERGENIC			
SNP_74933_A_219548	NW_004515954.1	scaffold496	219548	AA	GG	GG	INTERGENIC			
SNP_74934_A_221032	NW_004515954.1	scaffold496	221032	GG	AA	AA	INTERGENIC			
SNP_74935_A_221193	NW_004515954.1	scaffold496	221193	GG	AA	AA	INTERGENIC			
SNP_74936_A_227181	NW_004515954.1	scaffold496	227181	GG	CC	CC	INTERGENIC			
SNP_74937_A_227190	NW_004515954.1	scaffold496	227190	GG	AA	AA	INTERGENIC			
SNP_74938_A_227221	NW_004515954.1	scaffold496	227221	CC	TT	TT	INTERGENIC			
SNP_74939_A_227286	NW_004515954.1	scaffold496	227286	GG	TT	TT	INTERGENIC			
SNP_74940_A_228049	NW_004515954.1	scaffold496	228049	GG	AA	AA	INTERGENIC			
SNP_74941_A_228102	NW_004515954.1	scaffold496	228102	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74942_A_228399	NW_004515954.1	scaffold496	228399	TT	GG	GG	INTERGENIC			
SNP_74943_A_228407	NW_004515954.1	scaffold496	228407	TT	CC	CC	INTERGENIC			
SNP_74944_A_244566	NW_004515954.1	scaffold496	244566	TT	CC	CC	INTERGENIC			
SNP_74945_A_244573	NW_004515954.1	scaffold496	244573	TT	AA	AA	INTERGENIC			
SNP_74946_A_245960	NW_004515954.1	scaffold496	245960	GG	CC	CC	INTERGENIC			
SNP_74947_A_245969	NW_004515954.1	scaffold496	245969	AA	GG	GG	INTERGENIC			
SNP_74948_A_245979	NW_004515954.1	scaffold496	245979	TT	CC	CC	INTERGENIC			
SNP_74949_A_264521	NW_004515954.1	scaffold496	264521	AA	GG	GG	INTERGENIC			
SNP_74950_A_264933	NW_004515954.1	scaffold496	264933	GG	AA	AA	INTERGENIC			
SNP_74951_A_44990	NW_004515955.1	scaffold497	44990	GG	TT	TT	INTERGENIC			
SNP_74952_A_45102	NW_004515955.1	scaffold497	45102	TT	AA	AA	INTERGENIC			
SNP_74953_A_45107	NW_004515955.1	scaffold497	45107	AA	TT	TT	INTERGENIC			
SNP_74954_A_45156	NW_004515955.1	scaffold497	45156	TT	GG	GG	INTERGENIC			
SNP_74956_A_47012	NW_004515955.1	scaffold497	47012	TT	GG	GG	INTERGENIC			
SNP_74957_A_47015	NW_004515955.1	scaffold497	47015	GG	CC	CC	INTERGENIC			
SNP_74958_A_62917	NW_004515955.1	scaffold497	62917	CC	GG	GG	INTERGENIC			
SNP_74959_A_63033	NW_004515955.1	scaffold497	63033	TT	GG	GG	INTERGENIC			
SNP_74960_A_63040	NW_004515955.1	scaffold497	63040	AA	GG	GG	INTERGENIC			
SNP_74961_A_63054	NW_004515955.1	scaffold497	63054	TT	CC	CC	INTERGENIC			
SNP_74962_A_63089	NW_004515955.1	scaffold497	63089	TT	CC	CC	INTERGENIC			
SNP_74963_A_63107	NW_004515955.1	scaffold497	63107	GG	TT	TT	INTERGENIC			
SNP_74964_A_63246	NW_004515955.1	scaffold497	63246	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74965_A_63346	NW_004515955.1	scaffold497	63346	AA	GG	GG	INTERGENIC			
SNP_74966_A_63920	NW_004515955.1	scaffold497	63920	TT	AA	AA	INTERGENIC			
SNP_74967_A_64895	NW_004515955.1	scaffold497	64895	GG	TT	TT	INTERGENIC			
SNP_74968_A_68003	NW_004515955.1	scaffold497	68003	AA	TT	TT	INTERGENIC			
SNP_74969_A_68007	NW_004515955.1	scaffold497	68007	TT	CC	CC	INTERGENIC			
SNP_74970_A_68039	NW_004515955.1	scaffold497	68039	GG	AA	AA	INTERGENIC			
SNP_74971_A_69282	NW_004515955.1	scaffold497	69282	GG	AA	AA	INTERGENIC			
SNP_74973_A_69332	NW_004515955.1	scaffold497	69332	TT	AA	AA	INTERGENIC			
SNP_74974_A_69341	NW_004515955.1	scaffold497	69341	AA	TT	TT	INTERGENIC			
SNP_74975_A_69659	NW_004515955.1	scaffold497	69659	AA	TT	TT	INTERGENIC			
SNP_74976_A_69975	NW_004515955.1	scaffold497	69975	AA	GG	GG	INTERGENIC			
SNP_74977_A_69976	NW_004515955.1	scaffold497	69976	AA	TT	TT	INTERGENIC			
SNP_74978_A_69977	NW_004515955.1	scaffold497	69977	TT	AA	AA	INTERGENIC			
SNP_74979_A_69980	NW_004515955.1	scaffold497	69980	CC	TT	TT	INTERGENIC			
SNP_74982_A_72106	NW_004515955.1	scaffold497	72106	AA	GG	GG	INTERGENIC			
SNP_74983_A_72107	NW_004515955.1	scaffold497	72107	GG	CC	CC	INTERGENIC			
SNP_74984_A_72122	NW_004515955.1	scaffold497	72122	AA	CC	CC	INTERGENIC			
SNP_74985_A_72153	NW_004515955.1	scaffold497	72153	AA	GG	GG	INTERGENIC			
SNP_74986_A_72368	NW_004515955.1	scaffold497	72368	GG	CC	CC	INTERGENIC			
SNP_74987_A_72390	NW_004515955.1	scaffold497	72390	TT	CC	CC	INTERGENIC			
SNP_74988_A_72420	NW_004515955.1	scaffold497	72420	GG	TT	TT	INTERGENIC			
SNP_74989_A_72497	NW_004515955.1	scaffold497	72497	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_74990_A_73428	NW_004515955.1	scaffold497	73428	AA	CC	CC	INTERGENIC			
SNP_74991_A_73500	NW_004515955.1	scaffold497	73500	GG	AA	AA	INTERGENIC			
SNP_74992_A_73528	NW_004515955.1	scaffold497	73528	AA	CC	CC	INTERGENIC			
SNP_74993_A_73584	NW_004515955.1	scaffold497	73584	AA	CC	CC	INTERGENIC			
SNP_74994_A_73632	NW_004515955.1	scaffold497	73632	AA	GG	GG	INTERGENIC			
SNP_74995_A_73710	NW_004515955.1	scaffold497	73710	TT	CC	CC	INTERGENIC			
SNP_74996_A_73744	NW_004515955.1	scaffold497	73744	GG	TT	TT	INTERGENIC			
SNP_74997_A_73804	NW_004515955.1	scaffold497	73804	AA	GG	GG	INTERGENIC			
SNP_74998_A_73831	NW_004515955.1	scaffold497	73831	GG	AA	AA	INTERGENIC			
SNP_74999_A_73852	NW_004515955.1	scaffold497	73852	TT	GG	GG	INTERGENIC			
SNP_75000_A_73909	NW_004515955.1	scaffold497	73909	AA	TT	TT	INTERGENIC			
SNP_75001_A_73954	NW_004515955.1	scaffold497	73954	GG	TT	TT	INTERGENIC			
SNP_75002_A_83068	NW_004515955.1	scaffold497	83068	AA	GG	GG	INTERGENIC			
SNP_75003_A_83102	NW_004515955.1	scaffold497	83102	TT	CC	CC	INTERGENIC			
SNP_75004_A_84438	NW_004515955.1	scaffold497	84438	AA	CC	CC	INTERGENIC			
SNP_75005_A_84688	NW_004515955.1	scaffold497	84688	AA	CC	CC	INTERGENIC			
SNP_75006_A_84776	NW_004515955.1	scaffold497	84776	TT	AA	AA	INTERGENIC			
SNP_75007_A_85095	NW_004515955.1	scaffold497	85095	TT	AA	AA	INTERGENIC			
SNP_75008_A_85225	NW_004515955.1	scaffold497	85225	AA	GG	GG	INTERGENIC			
SNP_75009_A_88065	NW_004515955.1	scaffold497	88065	GG	AA	AA	INTERGENIC			
SNP_75010_A_92143	NW_004515955.1	scaffold497	92143	TT	AA	AA	INTERGENIC			
SNP_75011_A_92403	NW_004515955.1	scaffold497	92403	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75012_A_93457	NW_004515955.1	scaffold497	93457	TT	CC	CC	INTERGENIC		
SNP_75013_A_94877	NW_004515955.1	scaffold497	94877	CC	TT	TT	INTERGENIC		
SNP_75014_A_94907	NW_004515955.1	scaffold497	94907	TT	GG	GG	INTERGENIC		
SNP_75015_A_95042	NW_004515955.1	scaffold497	95042	AA	TT	TT	INTERGENIC		
SNP_75016_A_95048	NW_004515955.1	scaffold497	95048	TT	CC	CC	INTERGENIC		
SNP_75017_A_95099	NW_004515955.1	scaffold497	95099	TT	GG	GG	INTERGENIC		
SNP_75018_A_95177	NW_004515955.1	scaffold497	95177	TT	AA	AA	INTERGENIC		
SNP_75019_A_95178	NW_004515955.1	scaffold497	95178	AA	GG	GG	INTERGENIC		
SNP_75021_A_48803	NW_004515956.1	scaffold498	48803	AA	GG	GG	INTERGENIC		
SNP_75022_A_48911	NW_004515956.1	scaffold498	48911	GG	AA	AA	INTERGENIC		
SNP_75023_A_149330	NW_004515956.1	scaffold498	149330	CC	AA	AA	INTERGENIC		
SNP_75024_A_152248	NW_004515956.1	scaffold498	152248	AA	GG	GG	INTERGENIC		
SNP_75025_A_158609	NW_004515956.1	scaffold498	158609	GG	AA	AA	URR	101509494	laccase-17-like
SNP_75026_A_178289	NW_004515956.1	scaffold498	178289	TT	CC	CC	INTRON	101510783	vacuolar amino acid transporter 1
SNP_75027_A_198625	NW_004515956.1	scaffold498	198625	TT	AA	AA	INTERGENIC		
SNP_75028_A_198640	NW_004515956.1	scaffold498	198640	AA	TT	TT	INTERGENIC		
SNP_75029_A_198652	NW_004515956.1	scaffold498	198652	GG	TT	TT	INTERGENIC		
SNP_75030_A_198700	NW_004515956.1	scaffold498	198700	TT	AA	AA	INTERGENIC		
SNP_75031_A_198703	NW_004515956.1	scaffold498	198703	CC	TT	TT	INTERGENIC		
SNP_75032_A_198708	NW_004515956.1	scaffold498	198708	TT	GG	GG	INTERGENIC		
SNP_75033_A_198809	NW_004515956.1	scaffold498	198809	AA	GG	GG	INTERGENIC		
SNP_75034_A_198811	NW_004515956.1	scaffold498	198811	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75035_A_199108	NW_004515956.1	scaffold498	199108	TT	CC	CC	INTERGENIC			
SNP_75036_A_199174	NW_004515956.1	scaffold498	199174	TT	CC	CC	INTERGENIC			
SNP_75037_A_199211	NW_004515956.1	scaffold498	199211	AA	GG	GG	INTERGENIC			
SNP_75038_A_205121	NW_004515956.1	scaffold498	205121	GG	CC	CC	INTERGENIC			
SNP_75039_A_205425	NW_004515956.1	scaffold498	205425	CC	TT	TT	INTERGENIC			
SNP_75040_A_205619	NW_004515956.1	scaffold498	205619	GG	AA	AA	INTERGENIC			
SNP_75041_A_205637	NW_004515956.1	scaffold498	205637	TT	CC	CC	INTERGENIC			
SNP_75042_A_205803	NW_004515956.1	scaffold498	205803	AA	GG	GG	INTERGENIC			
SNP_75043_A_205879	NW_004515956.1	scaffold498	205879	TT	CC	CC	INTERGENIC			
SNP_75045_A_207013	NW_004515956.1	scaffold498	207013	GG	AA	AA	INTERGENIC			
SNP_75047_A_212139	NW_004515956.1	scaffold498	212139	AA	GG	GG	INTERGENIC			
SNP_75048_A_213294	NW_004515956.1	scaffold498	213294	CC	TT	TT	INTERGENIC			
SNP_75049_A_213319	NW_004515956.1	scaffold498	213319	GG	AA	AA	INTERGENIC			
SNP_75050_A_213430	NW_004515956.1	scaffold498	213430	AA	CC	CC	INTERGENIC			
SNP_75051_A_213706	NW_004515956.1	scaffold498	213706	GG	TT	TT	INTERGENIC			
SNP_75052_A_213900	NW_004515956.1	scaffold498	213900	TT	CC	CC	INTERGENIC			
SNP_75053_A_213949	NW_004515956.1	scaffold498	213949	GG	AA	AA	INTERGENIC			
SNP_75056_A_214320	NW_004515956.1	scaffold498	214320	CC	TT	TT	INTERGENIC			
SNP_75057_A_214452	NW_004515956.1	scaffold498	214452	CC	TT	TT	INTERGENIC			
SNP_75059_A_214627	NW_004515956.1	scaffold498	214627	GG	AA	AA	INTERGENIC			
SNP_75060_A_214678	NW_004515956.1	scaffold498	214678	CC	AA	AA	INTERGENIC			
SNP_75061_A_214742	NW_004515956.1	scaffold498	214742	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75062_A_214827	NW_004515956.1	scaffold498	214827	AA	GG	GG	INTERGENIC			
SNP_75063_A_214988	NW_004515956.1	scaffold498	214988	GG	CC	CC	INTERGENIC			
SNP_75064_A_215037	NW_004515956.1	scaffold498	215037	AA	GG	GG	INTERGENIC			
SNP_75065_A_215043	NW_004515956.1	scaffold498	215043	AA	GG	GG	INTERGENIC			
SNP_75066_A_215101	NW_004515956.1	scaffold498	215101	AA	CC	CC	INTERGENIC			
SNP_75067_A_215250	NW_004515956.1	scaffold498	215250	GG	AA	AA	INTERGENIC			
SNP_75068_A_215258	NW_004515956.1	scaffold498	215258	CC	AA	AA	INTERGENIC			
SNP_75069_A_215506	NW_004515956.1	scaffold498	215506	AA	GG	GG	INTERGENIC			
SNP_75070_A_215521	NW_004515956.1	scaffold498	215521	AA	GG	GG	INTERGENIC			
SNP_75071_A_215559	NW_004515956.1	scaffold498	215559	GG	AA	AA	INTERGENIC			
SNP_75072_A_215825	NW_004515956.1	scaffold498	215825	CC	AA	AA	INTERGENIC			
SNP_75073_A_215864	NW_004515956.1	scaffold498	215864	CC	TT	TT	INTERGENIC			
SNP_75074_A_215878	NW_004515956.1	scaffold498	215878	AA	GG	GG	INTERGENIC			
SNP_75075_A_215903	NW_004515956.1	scaffold498	215903	CC	GG	GG	INTERGENIC			
SNP_75076_A_216067	NW_004515956.1	scaffold498	216067	CC	AA	AA	INTERGENIC			
SNP_75077_A_216171	NW_004515956.1	scaffold498	216171	AA	GG	GG	INTERGENIC			
SNP_75078_A_216254	NW_004515956.1	scaffold498	216254	TT	CC	CC	INTERGENIC			
SNP_75079_A_216372	NW_004515956.1	scaffold498	216372	TT	AA	AA	INTERGENIC			
SNP_75080_A_216375	NW_004515956.1	scaffold498	216375	GG	AA	AA	INTERGENIC			
SNP_75081_A_216460	NW_004515956.1	scaffold498	216460	CC	TT	TT	INTERGENIC			
SNP_75082_A_216634	NW_004515956.1	scaffold498	216634	AA	GG	GG	INTERGENIC			
SNP_75083_A_216639	NW_004515956.1	scaffold498	216639	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75084_A_1199	NW_004515958.1	scaffold501	1199	CC	TT	TT	INTERGENIC			
SNP_75085_A_1207	NW_004515958.1	scaffold501	1207	CC	TT	TT	INTERGENIC			
SNP_75086_A_1861	NW_004515958.1	scaffold501	1861	TT	GG	GG	INTERGENIC			
SNP_75087_A_10953	NW_004515958.1	scaffold501	10953	CC	TT	TT	INTERGENIC			
SNP_75088_A_11018	NW_004515958.1	scaffold501	11018	AA	GG	GG	INTERGENIC			
SNP_75089_A_11045	NW_004515958.1	scaffold501	11045	GG	CC	CC	INTERGENIC			
SNP_75090_A_11050	NW_004515958.1	scaffold501	11050	AA	CC	CC	INTERGENIC			
SNP_75091_A_11055	NW_004515958.1	scaffold501	11055	TT	GG	GG	INTERGENIC			
SNP_75092_A_11159	NW_004515958.1	scaffold501	11159	CC	TT	TT	INTERGENIC			
SNP_75093_A_11395	NW_004515958.1	scaffold501	11395	GG	AA	AA	INTERGENIC			
SNP_75094_A_11497	NW_004515958.1	scaffold501	11497	AA	CC	CC	INTERGENIC			
SNP_75095_A_11584	NW_004515958.1	scaffold501	11584	AA	GG	GG	INTERGENIC			
SNP_75096_A_11653	NW_004515958.1	scaffold501	11653	GG	AA	AA	INTERGENIC			
SNP_75097_A_14191	NW_004515958.1	scaffold501	14191	AA	GG	GG	INTERGENIC			
SNP_75098_A_23137	NW_004515958.1	scaffold501	23137	AA	GG	GG	INTERGENIC			
SNP_75099_A_23169	NW_004515958.1	scaffold501	23169	AA	TT	TT	INTERGENIC			
SNP_75100_A_23178	NW_004515958.1	scaffold501	23178	TT	CC	CC	INTERGENIC			
SNP_75101_A_33617	NW_004515958.1	scaffold501	33617	TT	CC	CC	INTERGENIC			
SNP_75102_A_33914	NW_004515958.1	scaffold501	33914	AA	CC	CC	INTERGENIC			
SNP_75103_A_60602	NW_004515958.1	scaffold501	60602	TT	AA	AA	INTERGENIC			
SNP_75104_A_60881	NW_004515958.1	scaffold501	60881	CC	TT	TT	INTERGENIC			
SNP_75107_A_87760	NW_004515958.1	scaffold501	87760	TT	CC	CC	SYNONYMOUS_CODING	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75108_A_89042	NW_004515958.1	scaffold501	89042	AA	GG	GG	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75109_A_89233	NW_004515958.1	scaffold501	89233	GG	TT	TT	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75110_A_89244	NW_004515958.1	scaffold501	89244	TT	AA	AA	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75111_A_89296	NW_004515958.1	scaffold501	89296	TT	GG	GG	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75112_A_89313	NW_004515958.1	scaffold501	89313	TT	GG	GG	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75113_A_89405	NW_004515958.1	scaffold501	89405	TT	CC	CC	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75114_A_89432	NW_004515958.1	scaffold501	89432	CC	AA	AA	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75115_A_89455	NW_004515958.1	scaffold501	89455	GG	AA	AA	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75116_A_89604	NW_004515958.1	scaffold501	89604	CC	AA	AA	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75117_A_89658	NW_004515958.1	scaffold501	89658	AA	TT	TT	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75118_A_89724	NW_004515958.1	scaffold501	89724	TT	CC	CC	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75119_A_89818	NW_004515958.1	scaffold501	89818	CC	AA	AA	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75120_A_90097	NW_004515958.1	scaffold501	90097	TT	GG	GG	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75121_A_90110	NW_004515958.1	scaffold501	90110	AA	CC	CC	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75122_A_90135	NW_004515958.1	scaffold501	90135	AA	GG	GG	URR	101511110	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_75123_A_94083	NW_004515958.1	scaffold501	94083	CC	TT	TT	INTERGENIC		
SNP_75124_A_94176	NW_004515958.1	scaffold501	94176	TT	GG	GG	INTERGENIC		
SNP_75125_A_94220	NW_004515958.1	scaffold501	94220	TT	AA	AA	INTERGENIC		
SNP_75126_A_94321	NW_004515958.1	scaffold501	94321	TT	CC	CC	INTERGENIC		
SNP_75127_A_96732	NW_004515958.1	scaffold501	96732	AA	GG	GG	INTERGENIC		
SNP_75128_A_96750	NW_004515958.1	scaffold501	96750	TT	GG	GG	INTERGENIC		
SNP_75129_A_96823	NW_004515958.1	scaffold501	96823	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75130_A_103872	NW_004515958.1	scaffold501	103872	CC	GG	GG	INTERGENIC			
SNP_75131_A_103936	NW_004515958.1	scaffold501	103936	TT	AA	AA	INTERGENIC			
SNP_75132_A_104067	NW_004515958.1	scaffold501	104067	GG	AA	AA	INTERGENIC			
SNP_75133_A_104095	NW_004515958.1	scaffold501	104095	CC	AA	AA	INTERGENIC			
SNP_75134_A_104103	NW_004515958.1	scaffold501	104103	TT	GG	GG	INTERGENIC			
SNP_75135_A_104243	NW_004515958.1	scaffold501	104243	CC	GG	GG	INTERGENIC			
SNP_75136_A_106665	NW_004515958.1	scaffold501	106665	TT	AA	AA	INTERGENIC			
SNP_75137_A_110046	NW_004515958.1	scaffold501	110046	AA	GG	GG	INTERGENIC			
SNP_75138_A_110370	NW_004515958.1	scaffold501	110370	CC	TT	TT	INTERGENIC			
SNP_75139_A_110415	NW_004515958.1	scaffold501	110415	AA	GG	GG	INTERGENIC			
SNP_75140_A_111682	NW_004515958.1	scaffold501	111682	AA	TT	TT	INTERGENIC			
SNP_75141_A_111686	NW_004515958.1	scaffold501	111686	TT	CC	CC	INTERGENIC			
SNP_75142_A_111999	NW_004515958.1	scaffold501	111999	AA	TT	TT	INTERGENIC			
SNP_75143_A_115845	NW_004515958.1	scaffold501	115845	AA	TT	TT	INTERGENIC			
SNP_75144_A_115855	NW_004515958.1	scaffold501	115855	GG	TT	TT	INTERGENIC			
SNP_75145_A_116263	NW_004515958.1	scaffold501	116263	AA	GG	GG	INTERGENIC			
SNP_75147_A_116532	NW_004515958.1	scaffold501	116532	TT	GG	GG	INTERGENIC			
SNP_75148_A_117531	NW_004515958.1	scaffold501	117531	TT	CC	CC	INTERGENIC			
SNP_75149_A_117552	NW_004515958.1	scaffold501	117552	CC	TT	TT	INTERGENIC			
SNP_75150_A_117565	NW_004515958.1	scaffold501	117565	AA	TT	TT	INTERGENIC			
SNP_75151_A_117571	NW_004515958.1	scaffold501	117571	CC	TT	TT	INTERGENIC			
SNP_75152_A_117613	NW_004515958.1	scaffold501	117613	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75153_A_117655	NW_004515958.1	scaffold501	117655	CC	AA	AA	INTERGENIC			
SNP_75154_A_117668	NW_004515958.1	scaffold501	117668	CC	AA	AA	INTERGENIC			
SNP_75155_A_117686	NW_004515958.1	scaffold501	117686	CC	TT	TT	INTERGENIC			
SNP_75156_A_117702	NW_004515958.1	scaffold501	117702	CC	TT	TT	INTERGENIC			
SNP_75157_A_117729	NW_004515958.1	scaffold501	117729	TT	CC	CC	INTERGENIC			
SNP_75158_A_1294	NW_004515959.1	scaffold505	1294	TT	CC	CC	INTERGENIC			
SNP_75159_A_1360	NW_004515959.1	scaffold505	1360	CC	AA	AA	INTERGENIC			
SNP_75160_A_2875	NW_004515959.1	scaffold505	2875	AA	CC	CC	INTERGENIC			
SNP_75161_A_3047	NW_004515959.1	scaffold505	3047	GG	TT	TT	INTERGENIC			
SNP_75162_A_18996	NW_004515959.1	scaffold505	18996	TT	GG	GG	INTERGENIC			
SNP_75163_A_20981	NW_004515959.1	scaffold505	20981	GG	TT	TT	INTERGENIC			
SNP_75164_A_28004	NW_004515959.1	scaffold505	28004	AA	GG	GG	INTERGENIC			
SNP_75165_A_29540	NW_004515959.1	scaffold505	29540	AA	TT	TT	INTERGENIC			
SNP_75166_A_29546	NW_004515959.1	scaffold505	29546	AA	GG	GG	INTERGENIC			
SNP_75167_A_29556	NW_004515959.1	scaffold505	29556	AA	TT	TT	INTERGENIC			
SNP_75168_A_40623	NW_004515959.1	scaffold505	40623	CC	TT	TT	INTERGENIC			
SNP_75169_A_41053	NW_004515959.1	scaffold505	41053	AA	GG	GG	INTERGENIC			
SNP_75170_A_41108	NW_004515959.1	scaffold505	41108	AA	TT	TT	INTERGENIC			
SNP_75171_A_41183	NW_004515959.1	scaffold505	41183	TT	GG	GG	INTERGENIC			
SNP_75172_A_52062	NW_004515959.1	scaffold505	52062	AA	GG	GG	INTERGENIC			
SNP_75173_A_52066	NW_004515959.1	scaffold505	52066	GG	TT	TT	INTERGENIC			
SNP_75174_A_929	NW_004515960.1	scaffold506	929	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75175_A_1424	NW_004515960.1	scaffold506	1424	TT	AA	AA	INTERGENIC			
SNP_75176_A_1972	NW_004515960.1	scaffold506	1972	AA	TT	TT	INTERGENIC			
SNP_75177_A_6452	NW_004515960.1	scaffold506	6452	CC	TT	TT	INTERGENIC			
SNP_75178_A_6534	NW_004515960.1	scaffold506	6534	AA	GG	GG	INTERGENIC			
SNP_75179_A_6739	NW_004515960.1	scaffold506	6739	CC	AA	AA	INTERGENIC			
SNP_75180_A_6815	NW_004515960.1	scaffold506	6815	AA	TT	TT	INTERGENIC			
SNP_75181_A_8571	NW_004515960.1	scaffold506	8571	CC	AA	AA	INTERGENIC			
SNP_75182_A_8660	NW_004515960.1	scaffold506	8660	GG	AA	AA	INTERGENIC			
SNP_75183_A_9020	NW_004515960.1	scaffold506	9020	AA	TT	TT	INTERGENIC			
SNP_75184_A_9071	NW_004515960.1	scaffold506	9071	AA	GG	GG	INTERGENIC			
SNP_75185_A_9897	NW_004515960.1	scaffold506	9897	GG	AA	AA	INTERGENIC			
SNP_75186_A_10520	NW_004515960.1	scaffold506	10520	GG	AA	AA	INTERGENIC			
SNP_75187_A_17676	NW_004515960.1	scaffold506	17676	TT	CC	CC	INTERGENIC			
SNP_75188_A_17945	NW_004515960.1	scaffold506	17945	TT	AA	AA	INTERGENIC			
SNP_75190_A_18397	NW_004515960.1	scaffold506	18397	AA	GG	GG	INTERGENIC			
SNP_75191_A_18820	NW_004515960.1	scaffold506	18820	GG	TT	TT	INTERGENIC			
SNP_75193_A_19149	NW_004515960.1	scaffold506	19149	GG	AA	AA	INTERGENIC			
SNP_75194_A_19326	NW_004515960.1	scaffold506	19326	CC	TT	TT	INTERGENIC			
SNP_75195_A_20581	NW_004515960.1	scaffold506	20581	CC	GG	GG	INTERGENIC			
SNP_75196_A_23961	NW_004515960.1	scaffold506	23961	AA	CC	CC	INTERGENIC			
SNP_75197_A_24323	NW_004515960.1	scaffold506	24323	CC	TT	TT	INTERGENIC			
SNP_75198_A_24641	NW_004515960.1	scaffold506	24641	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75199_A_25599	NW_004515960.1	scaffold506	25599	GG	CC	CC	INTERGENIC			
SNP_75200_A_26658	NW_004515960.1	scaffold506	26658	GG	AA	AA	INTERGENIC			
SNP_75201_A_26682	NW_004515960.1	scaffold506	26682	TT	CC	CC	INTERGENIC			
SNP_75202_A_26983	NW_004515960.1	scaffold506	26983	TT	CC	CC	INTERGENIC			
SNP_75203_A_27130	NW_004515960.1	scaffold506	27130	TT	CC	CC	INTERGENIC			
SNP_75204_A_28144	NW_004515960.1	scaffold506	28144	GG	AA	AA	INTERGENIC			
SNP_75205_A_28611	NW_004515960.1	scaffold506	28611	CC	TT	TT	INTERGENIC			
SNP_75206_A_29546	NW_004515960.1	scaffold506	29546	CC	TT	TT	INTERGENIC			
SNP_75207_A_29976	NW_004515960.1	scaffold506	29976	GG	TT	TT	INTERGENIC			
SNP_75208_A_30225	NW_004515960.1	scaffold506	30225	CC	GG	GG	INTERGENIC			
SNP_75209_A_30332	NW_004515960.1	scaffold506	30332	AA	GG	GG	INTERGENIC			
SNP_75210_A_31189	NW_004515960.1	scaffold506	31189	GG	AA	AA	INTERGENIC			
SNP_75211_A_33667	NW_004515960.1	scaffold506	33667	GG	AA	AA	INTERGENIC			
SNP_75213_A_34451	NW_004515960.1	scaffold506	34451	AA	CC	CC	INTERGENIC			
SNP_75214_A_35371	NW_004515960.1	scaffold506	35371	TT	AA	AA	INTERGENIC			
SNP_75215_A_35372	NW_004515960.1	scaffold506	35372	AA	CC	CC	INTERGENIC			
SNP_75216_A_36335	NW_004515960.1	scaffold506	36335	AA	GG	GG	INTERGENIC			
SNP_75217_A_36875	NW_004515960.1	scaffold506	36875	TT	CC	CC	INTERGENIC			
SNP_75218_A_36886	NW_004515960.1	scaffold506	36886	TT	AA	AA	INTERGENIC			
SNP_75219_A_37335	NW_004515960.1	scaffold506	37335	CC	TT	TT	INTERGENIC			
SNP_75220_A_39179	NW_004515960.1	scaffold506	39179	AA	TT	TT	INTERGENIC			
SNP_75222_A_39702	NW_004515960.1	scaffold506	39702	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75223_A_39764	NW_004515960.1	scaffold506	39764	CC	GG	GG	INTERGENIC			
SNP_75224_A_39821	NW_004515960.1	scaffold506	39821	CC	AA	AA	INTERGENIC			
SNP_75225_A_2296	NW_004515961.1	scaffold507	2296	AA	CC	CC	INTERGENIC			
SNP_75226_A_2338	NW_004515961.1	scaffold507	2338	CC	AA	AA	INTERGENIC			
SNP_75227_A_12228	NW_004515961.1	scaffold507	12228	CC	GG	GG	INTERGENIC			
SNP_75228_A_12273	NW_004515961.1	scaffold507	12273	GG	CC	CC	INTERGENIC			
SNP_75229_A_12548	NW_004515961.1	scaffold507	12548	TT	AA	AA	INTERGENIC			
SNP_75230_A_12569	NW_004515961.1	scaffold507	12569	CC	TT	TT	INTERGENIC			
SNP_75231_A_18736	NW_004515961.1	scaffold507	18736	TT	CC	CC	INTERGENIC			
SNP_75232_A_13181	NW_004515962.1	scaffold509	13181	CC	TT	TT	INTERGENIC			
SNP_75233_A_16466	NW_004515962.1	scaffold509	16466	AA	CC	CC	INTERGENIC			
SNP_75234_A_19792	NW_004515962.1	scaffold509	19792	TT	GG	GG	INTERGENIC			
SNP_75235_A_20241	NW_004515962.1	scaffold509	20241	CC	GG	GG	INTERGENIC			
SNP_75236_A_20253	NW_004515962.1	scaffold509	20253	TT	CC	CC	INTERGENIC			
SNP_75237_A_75725	NW_004515962.1	scaffold509	75725	AA	GG	GG	URR	101511415	uncharacterized LOC101511415	
SNP_75238_A_77014	NW_004515962.1	scaffold509	77014	CC	TT	TT	INTERGENIC			
SNP_75239_A_78050	NW_004515962.1	scaffold509	78050	AA	TT	TT	INTERGENIC			
SNP_75240_A_78156	NW_004515962.1	scaffold509	78156	CC	TT	TT	INTERGENIC			
SNP_75241_A_78411	NW_004515962.1	scaffold509	78411	GG	AA	AA	INTERGENIC			
SNP_75242_A_78433	NW_004515962.1	scaffold509	78433	TT	CC	CC	INTERGENIC			
SNP_75244_A_122404	NW_004515962.1	scaffold509	122404	TT	CC	CC	INTERGENIC			
SNP_75245_A_128885	NW_004515962.1	scaffold509	128885	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75246_A_157646	NW_004515962.1	scaffold509	157646	AA	GG	GG	INTERGENIC			
SNP_75247_A_157967	NW_004515962.1	scaffold509	157967	AA	GG	GG	INTERGENIC			
SNP_75248_A_158083	NW_004515962.1	scaffold509	158083	TT	AA	AA	INTERGENIC			
SNP_75249_A_158088	NW_004515962.1	scaffold509	158088	GG	TT	TT	INTERGENIC			
SNP_75251_A_170444	NW_004515962.1	scaffold509	170444	GG	AA	AA	INTERGENIC			
SNP_75252_A_172651	NW_004515962.1	scaffold509	172651	CC	TT	TT	INTERGENIC			
SNP_75253_A_173700	NW_004515962.1	scaffold509	173700	AA	GG	GG	INTERGENIC			
SNP_75254_A_175515	NW_004515962.1	scaffold509	175515	TT	CC	CC	INTERGENIC			
SNP_75255_A_175525	NW_004515962.1	scaffold509	175525	AA	GG	GG	INTERGENIC			
SNP_75256_A_175575	NW_004515962.1	scaffold509	175575	CC	TT	TT	INTERGENIC			
SNP_75257_A_179734	NW_004515962.1	scaffold509	179734	TT	CC	CC	INTERGENIC			
SNP_75258_A_179886	NW_004515962.1	scaffold509	179886	CC	AA	AA	INTERGENIC			
SNP_75259_A_179924	NW_004515962.1	scaffold509	179924	CC	TT	TT	INTERGENIC			
SNP_75260_A_179945	NW_004515962.1	scaffold509	179945	TT	CC	CC	INTERGENIC			
SNP_75261_A_180007	NW_004515962.1	scaffold509	180007	AA	CC	CC	INTERGENIC			
SNP_75262_A_180085	NW_004515962.1	scaffold509	180085	CC	GG	GG	INTERGENIC			
SNP_75263_A_180332	NW_004515962.1	scaffold509	180332	GG	TT	TT	INTERGENIC			
SNP_75264_A_180347	NW_004515962.1	scaffold509	180347	GG	AA	AA	INTERGENIC			
SNP_75265_A_180604	NW_004515962.1	scaffold509	180604	AA	TT	TT	INTERGENIC			
SNP_75266_A_180711	NW_004515962.1	scaffold509	180711	TT	CC	CC	INTERGENIC			
SNP_75267_A_188509	NW_004515962.1	scaffold509	188509	TT	GG	GG	INTERGENIC			
SNP_75268_A_188731	NW_004515962.1	scaffold509	188731	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75269_A_189040	NW_004515962.1	scaffold509	189040	AA	GG	GG	INTERGENIC			
SNP_75270_A_196589	NW_004515962.1	scaffold509	196589	TT	CC	CC	INTERGENIC			
SNP_75271_A_196592	NW_004515962.1	scaffold509	196592	AA	TT	TT	INTERGENIC			
SNP_75272_A_196595	NW_004515962.1	scaffold509	196595	CC	AA	AA	INTERGENIC			
SNP_75273_A_216983	NW_004515962.1	scaffold509	216983	AA	GG	GG	INTERGENIC			
SNP_75274_A_218924	NW_004515962.1	scaffold509	218924	CC	TT	TT	INTERGENIC			
SNP_75275_A_218925	NW_004515962.1	scaffold509	218925	GG	TT	TT	INTERGENIC			
SNP_75276_A_218929	NW_004515962.1	scaffold509	218929	TT	GG	GG	INTERGENIC			
SNP_75277_A_218931	NW_004515962.1	scaffold509	218931	CC	AA	AA	INTERGENIC			
SNP_75278_A_225063	NW_004515962.1	scaffold509	225063	CC	TT	TT	INTERGENIC			
SNP_75279_A_225203	NW_004515962.1	scaffold509	225203	AA	TT	TT	INTERGENIC			
SNP_75280_A_225204	NW_004515962.1	scaffold509	225204	AA	GG	GG	INTERGENIC			
SNP_75281_A_225206	NW_004515962.1	scaffold509	225206	CC	GG	GG	INTERGENIC			
SNP_75282_A_225215	NW_004515962.1	scaffold509	225215	CC	TT	TT	INTERGENIC			
SNP_75283_A_225219	NW_004515962.1	scaffold509	225219	TT	CC	CC	INTERGENIC			
SNP_75284_A_238733	NW_004515962.1	scaffold509	238733	TT	AA	AA	INTERGENIC			
SNP_75285_A_266717	NW_004515962.1	scaffold509	266717	TT	CC	CC	INTRON	101512063	stress response protein nst1-like	
SNP_75286_A_266778	NW_004515962.1	scaffold509	266778	GG	TT	TT	INTRON	101512063	stress response protein nst1-like	
SNP_75288_A_273475	NW_004515962.1	scaffold509	273475	AA	GG	GG	INTRON	101512063	stress response protein nst1-like	
SNP_75289_A_273859	NW_004515962.1	scaffold509	273859	TT	CC	CC	INTRON	101512063	stress response protein nst1-like	
SNP_75290_A_290251	NW_004515962.1	scaffold509	290251	TT	CC	CC	INTERGENIC			
SNP_75291_A_293516	NW_004515962.1	scaffold509	293516	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75292_A_303634	NW_004515962.1	scaffold509	303634	AA	GG	GG	INTERGENIC			
SNP_75293_A_322214	NW_004515962.1	scaffold509	322214	GG	TT	TT	INTERGENIC			
SNP_75294_A_14403	NW_004515963.1	scaffold510	14403	GG	TT	TT	INTERGENIC			
SNP_75295_A_24282	NW_004515963.1	scaffold510	24282	GG	TT	TT	INTERGENIC			
SNP_75296_A_24706	NW_004515963.1	scaffold510	24706	AA	GG	GG	INTERGENIC			
SNP_75297_A_25091	NW_004515963.1	scaffold510	25091	TT	CC	CC	INTERGENIC			
SNP_75298_A_25149	NW_004515963.1	scaffold510	25149	CC	TT	TT	INTERGENIC			
SNP_75299_A_25590	NW_004515963.1	scaffold510	25590	GG	AA	AA	INTERGENIC			
SNP_75300_A_25623	NW_004515963.1	scaffold510	25623	AA	CC	CC	INTERGENIC			
SNP_75301_A_40371	NW_004515963.1	scaffold510	40371	AA	GG	GG	INTERGENIC			
SNP_75302_A_40379	NW_004515963.1	scaffold510	40379	GG	TT	TT	INTERGENIC			
SNP_75303_A_40946	NW_004515963.1	scaffold510	40946	AA	TT	TT	INTERGENIC			
SNP_75304_A_41077	NW_004515963.1	scaffold510	41077	CC	TT	TT	INTERGENIC			
SNP_75305_A_46994	NW_004515963.1	scaffold510	46994	GG	TT	TT	INTERGENIC			
SNP_75306_A_48141	NW_004515963.1	scaffold510	48141	AA	TT	TT	INTERGENIC			
SNP_75307_A_54982	NW_004515963.1	scaffold510	54982	TT	CC	CC	INTERGENIC			
SNP_75308_A_54996	NW_004515963.1	scaffold510	54996	CC	TT	TT	INTERGENIC			
SNP_75309_A_58998	NW_004515963.1	scaffold510	58998	TT	GG	GG	INTERGENIC			
SNP_75310_A_59163	NW_004515963.1	scaffold510	59163	TT	CC	CC	INTERGENIC			
SNP_75311_A_59192	NW_004515963.1	scaffold510	59192	CC	TT	TT	INTERGENIC			
SNP_75312_A_66749	NW_004515963.1	scaffold510	66749	CC	AA	AA	INTERGENIC			
SNP_75313_A_66783	NW_004515963.1	scaffold510	66783	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75314_A_66808	NW_004515963.1	scaffold510	66808	GG	CC	CC	INTERGENIC			
SNP_75315_A_79322	NW_004515963.1	scaffold510	79322	AA	GG	GG	INTERGENIC			
SNP_75316_A_80368	NW_004515963.1	scaffold510	80368	CC	TT	TT	INTERGENIC			
SNP_75317_A_80370	NW_004515963.1	scaffold510	80370	CC	TT	TT	INTERGENIC			
SNP_75318_A_80383	NW_004515963.1	scaffold510	80383	TT	GG	GG	INTERGENIC			
SNP_75319_A_80385	NW_004515963.1	scaffold510	80385	TT	GG	GG	INTERGENIC			
SNP_75320_A_80389	NW_004515963.1	scaffold510	80389	TT	GG	GG	INTERGENIC			
SNP_75321_A_80394	NW_004515963.1	scaffold510	80394	GG	TT	TT	INTERGENIC			
SNP_75322_A_80417	NW_004515963.1	scaffold510	80417	CC	TT	TT	INTERGENIC			
SNP_75323_A_80436	NW_004515963.1	scaffold510	80436	GG	TT	TT	INTERGENIC			
SNP_75324_A_80469	NW_004515963.1	scaffold510	80469	AA	GG	GG	INTERGENIC			
SNP_75325_A_80480	NW_004515963.1	scaffold510	80480	TT	GG	GG	INTERGENIC			
SNP_75326_A_80662	NW_004515963.1	scaffold510	80662	CC	TT	TT	INTERGENIC			
SNP_75327_A_81882	NW_004515963.1	scaffold510	81882	GG	TT	TT	INTERGENIC			
SNP_75328_A_81901	NW_004515963.1	scaffold510	81901	TT	CC	CC	INTERGENIC			
SNP_75329_A_81930	NW_004515963.1	scaffold510	81930	AA	TT	TT	INTERGENIC			
SNP_75330_A_82134	NW_004515963.1	scaffold510	82134	AA	TT	TT	INTERGENIC			
SNP_75331_A_85592	NW_004515963.1	scaffold510	85592	AA	CC	CC	INTERGENIC			
SNP_75333_A_85666	NW_004515963.1	scaffold510	85666	CC	GG	GG	INTERGENIC			
SNP_75334_A_85711	NW_004515963.1	scaffold510	85711	AA	GG	GG	INTERGENIC			
SNP_75335_A_85718	NW_004515963.1	scaffold510	85718	AA	TT	TT	INTERGENIC			
SNP_75336_A_85772	NW_004515963.1	scaffold510	85772	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75337_A_85789	NW_004515963.1	scaffold510	85789	AA	CC	CC	INTERGENIC			
SNP_75338_A_85831	NW_004515963.1	scaffold510	85831	CC	TT	TT	INTERGENIC			
SNP_75339_A_85852	NW_004515963.1	scaffold510	85852	TT	CC	CC	INTERGENIC			
SNP_75340_A_85867	NW_004515963.1	scaffold510	85867	CC	TT	TT	INTERGENIC			
SNP_75341_A_85936	NW_004515963.1	scaffold510	85936	TT	AA	AA	INTERGENIC			
SNP_75342_A_85937	NW_004515963.1	scaffold510	85937	AA	GG	GG	INTERGENIC			
SNP_75343_A_85958	NW_004515963.1	scaffold510	85958	TT	CC	CC	INTERGENIC			
SNP_75344_A_85967	NW_004515963.1	scaffold510	85967	GG	CC	CC	INTERGENIC			
SNP_75345_A_85981	NW_004515963.1	scaffold510	85981	CC	AA	AA	INTERGENIC			
SNP_75346_A_85987	NW_004515963.1	scaffold510	85987	CC	GG	GG	INTERGENIC			
SNP_75347_A_86002	NW_004515963.1	scaffold510	86002	TT	GG	GG	INTERGENIC			
SNP_75348_A_86027	NW_004515963.1	scaffold510	86027	CC	AA	AA	INTERGENIC			
SNP_75349_A_86035	NW_004515963.1	scaffold510	86035	CC	GG	GG	INTERGENIC			
SNP_75350_A_86036	NW_004515963.1	scaffold510	86036	TT	AA	AA	INTERGENIC			
SNP_75351_A_86059	NW_004515963.1	scaffold510	86059	AA	GG	GG	INTERGENIC			
SNP_75352_A_86062	NW_004515963.1	scaffold510	86062	TT	CC	CC	INTERGENIC			
SNP_75353_A_86107	NW_004515963.1	scaffold510	86107	TT	GG	GG	INTERGENIC			
SNP_75354_A_86113	NW_004515963.1	scaffold510	86113	AA	TT	TT	INTERGENIC			
SNP_75355_A_86127	NW_004515963.1	scaffold510	86127	GG	TT	TT	INTERGENIC			
SNP_75357_A_86203	NW_004515963.1	scaffold510	86203	CC	AA	AA	INTERGENIC			
SNP_75358_A_86237	NW_004515963.1	scaffold510	86237	GG	TT	TT	INTERGENIC			
SNP_75359_A_86327	NW_004515963.1	scaffold510	86327	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75360_A_86335	NW_004515963.1	scaffold510	86335	AA	TT	TT	INTERGENIC		
SNP_75361_A_86564	NW_004515963.1	scaffold510	86564	CC	TT	TT	INTERGENIC		
SNP_75362_A_86858	NW_004515963.1	scaffold510	86858	TT	CC	CC	INTERGENIC		
SNP_75363_A_90793	NW_004515963.1	scaffold510	90793	TT	GG	GG	INTERGENIC		
SNP_75364_A_92176	NW_004515963.1	scaffold510	92176	TT	AA	AA	INTERGENIC		
SNP_75365_A_3358	NW_004515964.1	scaffold511	3358	TT	CC	CC	INTERGENIC		
SNP_75366_A_3393	NW_004515964.1	scaffold511	3393	AA	TT	TT	INTERGENIC		
SNP_75367_A_3780	NW_004515964.1	scaffold511	3780	AA	CC	CC	INTERGENIC		
SNP_75368_A_43002	NW_004515964.1	scaffold511	43002	CC	TT	TT	INTERGENIC		
SNP_75369_A_43062	NW_004515964.1	scaffold511	43062	AA	CC	CC	INTERGENIC		
SNP_75370_A_70317	NW_004515964.1	scaffold511	70317	CC	TT	TT	INTERGENIC		
SNP_75371_A_80362	NW_004515964.1	scaffold511	80362	CC	AA	AA	INTRON	101512392	uncharacterized protein At4g15545-like
SNP_75372_A_97205	NW_004515964.1	scaffold511	97205	CC	TT	TT	INTERGENIC		
SNP_75373_A_97206	NW_004515964.1	scaffold511	97206	AA	GG	GG	INTERGENIC		
SNP_75374_A_97464	NW_004515964.1	scaffold511	97464	TT	CC	CC	INTERGENIC		
SNP_75375_A_97466	NW_004515964.1	scaffold511	97466	CC	TT	TT	INTERGENIC		
SNP_75376_A_97481	NW_004515964.1	scaffold511	97481	AA	GG	GG	INTERGENIC		
SNP_75377_A_97862	NW_004515964.1	scaffold511	97862	CC	AA	AA	INTERGENIC		
SNP_75378_A_98130	NW_004515964.1	scaffold511	98130	TT	GG	GG	INTERGENIC		
SNP_75381_A_119033	NW_004515964.1	scaffold511	119033	GG	AA	AA	INTERGENIC		
SNP_75382_A_123204	NW_004515964.1	scaffold511	123204	AA	GG	GG	INTERGENIC		
SNP_75383_A_148194	NW_004515964.1	scaffold511	148194	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75384_A_148217	NW_004515964.1	scaffold511	148217	AA	CC	CC	INTERGENIC		
SNP_75385_A_148233	NW_004515964.1	scaffold511	148233	CC	GG	GG	INTERGENIC		
SNP_75386_A_148246	NW_004515964.1	scaffold511	148246	CC	TT	TT	INTERGENIC		
SNP_75387_A_148278	NW_004515964.1	scaffold511	148278	TT	CC	CC	INTERGENIC		
SNP_75388_A_149578	NW_004515964.1	scaffold511	149578	TT	CC	CC	INTERGENIC		
SNP_75390_A_151836	NW_004515964.1	scaffold511	151836	CC	AA	AA	INTERGENIC		
SNP_75391_A_152199	NW_004515964.1	scaffold511	152199	CC	TT	TT	INTERGENIC		
SNP_75392_A_162697	NW_004515964.1	scaffold511	162697	CC	TT	TT	INTERGENIC		
SNP_75393_A_183557	NW_004515964.1	scaffold511	183557	AA	GG	GG	DRR	101514004	uncharacterized LOC101514004
SNP_75394_A_192867	NW_004515964.1	scaffold511	192867	TT	AA	AA	INTERGENIC		
SNP_75395_A_192912	NW_004515964.1	scaffold511	192912	AA	GG	GG	INTERGENIC		
SNP_75397_A_193141	NW_004515964.1	scaffold511	193141	AA	TT	TT	INTERGENIC		
SNP_75398_A_193179	NW_004515964.1	scaffold511	193179	TT	GG	GG	INTERGENIC		
SNP_75399_A_193242	NW_004515964.1	scaffold511	193242	CC	TT	TT	INTERGENIC		
SNP_75400_A_193286	NW_004515964.1	scaffold511	193286	GG	AA	AA	INTERGENIC		
SNP_75401_A_193308	NW_004515964.1	scaffold511	193308	TT	GG	GG	INTERGENIC		
SNP_75402_A_194369	NW_004515964.1	scaffold511	194369	CC	TT	TT	INTERGENIC		
SNP_75403_A_194402	NW_004515964.1	scaffold511	194402	TT	CC	CC	INTERGENIC		
SNP_75404_A_194423	NW_004515964.1	scaffold511	194423	TT	CC	CC	INTERGENIC		
SNP_75405_A_194443	NW_004515964.1	scaffold511	194443	AA	GG	GG	INTRON	101514341	Unknown function
SNP_75406_A_194475	NW_004515964.1	scaffold511	194475	TT	AA	AA	INTRON	101514341	Unknown function
SNP_75407_A_194479	NW_004515964.1	scaffold511	194479	TT	GG	GG	INTRON	101514341	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75408_A_194504	NW_004515964.1	scaffold511	194504	AA	CC	CC	INTRON	101514341	Unknown function
SNP_75410_A_194633	NW_004515964.1	scaffold511	194633	AA	TT	TT	INTRON	101514341	Unknown function
SNP_75411_A_194660	NW_004515964.1	scaffold511	194660	TT	CC	CC	INTRON	101514341	Unknown function
SNP_75412_A_194830	NW_004515964.1	scaffold511	194830	CC	TT	TT	INTRON	101514341	Unknown function
SNP_75413_A_194860	NW_004515964.1	scaffold511	194860	GG	AA	AA	INTRON	101514341	Unknown function
SNP_75414_A_224513	NW_004515964.1	scaffold511	224513	GG	TT	TT	INTERGENIC		
SNP_75415_A_224528	NW_004515964.1	scaffold511	224528	TT	CC	CC	INTERGENIC		
SNP_75416_A_224531	NW_004515964.1	scaffold511	224531	CC	GG	GG	INTERGENIC		
SNP_75417_A_224625	NW_004515964.1	scaffold511	224625	AA	GG	GG	INTERGENIC		
SNP_75418_A_224659	NW_004515964.1	scaffold511	224659	AA	GG	GG	INTERGENIC		
SNP_75419_A_224977	NW_004515964.1	scaffold511	224977	AA	GG	GG	INTERGENIC		
SNP_75420_A_226416	NW_004515964.1	scaffold511	226416	AA	TT	TT	INTERGENIC		
SNP_75421_A_226687	NW_004515964.1	scaffold511	226687	TT	GG	GG	INTERGENIC		
SNP_75422_A_235758	NW_004515964.1	scaffold511	235758	AA	GG	GG	INTERGENIC		
SNP_75423_A_235949	NW_004515964.1	scaffold511	235949	AA	TT	TT	INTERGENIC		
SNP_75424_A_238799	NW_004515964.1	scaffold511	238799	AA	GG	GG	INTERGENIC		
SNP_75425_A_238809	NW_004515964.1	scaffold511	238809	TT	AA	AA	INTERGENIC		
SNP_75426_A_238810	NW_004515964.1	scaffold511	238810	TT	AA	AA	INTERGENIC		
SNP_75427_A_238828	NW_004515964.1	scaffold511	238828	CC	TT	TT	INTERGENIC		
SNP_75428_A_687	NW_004515965.1	scaffold512	687	AA	GG	GG	INTERGENIC		
SNP_75429_A_718	NW_004515965.1	scaffold512	718	TT	CC	CC	INTERGENIC		
SNP_75430_A_732	NW_004515965.1	scaffold512	732	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75431_A_931	NW_004515965.1	scaffold512	931	AA	TT	TT	INTERGENIC			
SNP_75432_A_8212	NW_004515965.1	scaffold512	8212	TT	CC	CC	INTERGENIC			
SNP_75433_A_9368	NW_004515965.1	scaffold512	9368	TT	AA	AA	INTERGENIC			
SNP_75434_A_9452	NW_004515965.1	scaffold512	9452	TT	GG	GG	INTERGENIC			
SNP_75435_A_21824	NW_004515965.1	scaffold512	21824	GG	CC	CC	INTERGENIC			
SNP_75436_A_38943	NW_004515965.1	scaffold512	38943	CC	TT	TT	INTERGENIC			
SNP_75437_A_83283	NW_004515965.1	scaffold512	83283	TT	GG	GG	INTERGENIC			
SNP_75438_A_85227	NW_004515965.1	scaffold512	85227	AA	CC	CC	INTERGENIC			
SNP_75439_A_85240	NW_004515965.1	scaffold512	85240	CC	TT	TT	INTERGENIC			
SNP_75440_A_88803	NW_004515965.1	scaffold512	88803	CC	TT	TT	INTERGENIC			
SNP_75441_A_89110	NW_004515965.1	scaffold512	89110	TT	AA	AA	INTERGENIC			
SNP_75442_A_98599	NW_004515965.1	scaffold512	98599	AA	TT	TT	INTERGENIC			
SNP_75443_A_98770	NW_004515965.1	scaffold512	98770	AA	TT	TT	INTERGENIC			
SNP_75444_A_103490	NW_004515965.1	scaffold512	103490	GG	AA	AA	INTERGENIC			
SNP_75446_A_105773	NW_004515965.1	scaffold512	105773	TT	GG	GG	INTERGENIC			
SNP_75447_A_105811	NW_004515965.1	scaffold512	105811	TT	AA	AA	INTERGENIC			
SNP_75448_A_107657	NW_004515965.1	scaffold512	107657	CC	TT	TT	INTERGENIC			
SNP_75450_A_114504	NW_004515965.1	scaffold512	114504	AA	CC	CC	INTERGENIC			
SNP_75451_A_115677	NW_004515965.1	scaffold512	115677	AA	TT	TT	INTERGENIC			
SNP_75452_A_125966	NW_004515965.1	scaffold512	125966	AA	GG	GG	INTERGENIC			
SNP_75453_A_126020	NW_004515965.1	scaffold512	126020	GG	AA	AA	INTERGENIC			
SNP_75454_A_126032	NW_004515965.1	scaffold512	126032	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75455_A_126056	NW_004515965.1	scaffold512	126056	GG	AA	AA	INTERGENIC			
SNP_75456_A_126062	NW_004515965.1	scaffold512	126062	GG	AA	AA	INTERGENIC			
SNP_75457_A_126068	NW_004515965.1	scaffold512	126068	CC	TT	TT	INTERGENIC			
SNP_75458_A_126119	NW_004515965.1	scaffold512	126119	AA	CC	CC	INTERGENIC			
SNP_75459_A_126125	NW_004515965.1	scaffold512	126125	TT	CC	CC	INTERGENIC			
SNP_75460_A_126137	NW_004515965.1	scaffold512	126137	AA	CC	CC	INTERGENIC			
SNP_75461_A_126149	NW_004515965.1	scaffold512	126149	TT	CC	CC	INTERGENIC			
SNP_75462_A_126155	NW_004515965.1	scaffold512	126155	GG	TT	TT	INTERGENIC			
SNP_75463_A_126167	NW_004515965.1	scaffold512	126167	AA	TT	TT	INTERGENIC			
SNP_75464_A_126182	NW_004515965.1	scaffold512	126182	AA	TT	TT	INTERGENIC			
SNP_75465_A_126230	NW_004515965.1	scaffold512	126230	GG	AA	AA	INTERGENIC			
SNP_75466_A_126246	NW_004515965.1	scaffold512	126246	TT	CC	CC	INTERGENIC			
SNP_75467_A_126249	NW_004515965.1	scaffold512	126249	GG	AA	AA	INTERGENIC			
SNP_75468_A_126288	NW_004515965.1	scaffold512	126288	GG	AA	AA	INTERGENIC			
SNP_75469_A_126320	NW_004515965.1	scaffold512	126320	GG	CC	CC	INTERGENIC			
SNP_75470_A_126333	NW_004515965.1	scaffold512	126333	CC	TT	TT	INTERGENIC			
SNP_75471_A_126348	NW_004515965.1	scaffold512	126348	TT	CC	CC	INTERGENIC			
SNP_75472_A_126354	NW_004515965.1	scaffold512	126354	CC	TT	TT	INTERGENIC			
SNP_75474_A_126367	NW_004515965.1	scaffold512	126367	AA	TT	TT	INTERGENIC			
SNP_75475_A_126390	NW_004515965.1	scaffold512	126390	AA	GG	GG	INTERGENIC			
SNP_75476_A_126446	NW_004515965.1	scaffold512	126446	AA	TT	TT	INTERGENIC			
SNP_75477_A_126453	NW_004515965.1	scaffold512	126453	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75478_A_131831	NW_004515965.1	scaffold512	131831	AA	GG	GG	INTERGENIC			
SNP_75479_A_136290	NW_004515965.1	scaffold512	136290	AA	GG	GG	INTERGENIC			
SNP_75480_A_137960	NW_004515965.1	scaffold512	137960	AA	TT	TT	INTERGENIC			
SNP_75481_A_138167	NW_004515965.1	scaffold512	138167	AA	TT	TT	INTERGENIC			
SNP_75482_A_138199	NW_004515965.1	scaffold512	138199	GG	CC	CC	INTERGENIC			
SNP_75483_A_138399	NW_004515965.1	scaffold512	138399	TT	GG	GG	INTERGENIC			
SNP_75484_A_138418	NW_004515965.1	scaffold512	138418	CC	AA	AA	INTERGENIC			
SNP_75485_A_138428	NW_004515965.1	scaffold512	138428	AA	CC	CC	INTERGENIC			
SNP_75486_A_138430	NW_004515965.1	scaffold512	138430	GG	AA	AA	INTERGENIC			
SNP_75487_A_138432	NW_004515965.1	scaffold512	138432	AA	CC	CC	INTERGENIC			
SNP_75488_A_138438	NW_004515965.1	scaffold512	138438	AA	TT	TT	INTERGENIC			
SNP_75489_A_138441	NW_004515965.1	scaffold512	138441	AA	CC	CC	INTERGENIC			
SNP_75490_A_138444	NW_004515965.1	scaffold512	138444	CC	GG	GG	INTERGENIC			
SNP_75491_A_138498	NW_004515965.1	scaffold512	138498	AA	TT	TT	INTERGENIC			
SNP_75492_A_138511	NW_004515965.1	scaffold512	138511	CC	TT	TT	INTERGENIC			
SNP_75493_A_139628	NW_004515965.1	scaffold512	139628	GG	AA	AA	INTERGENIC			
SNP_75494_A_139642	NW_004515965.1	scaffold512	139642	CC	GG	GG	INTERGENIC			
SNP_75495_A_139703	NW_004515965.1	scaffold512	139703	GG	TT	TT	INTERGENIC			
SNP_75496_A_139709	NW_004515965.1	scaffold512	139709	AA	GG	GG	INTERGENIC			
SNP_75497_A_144889	NW_004515965.1	scaffold512	144889	CC	TT	TT	INTERGENIC			
SNP_75498_A_144900	NW_004515965.1	scaffold512	144900	TT	GG	GG	INTERGENIC			
SNP_75499_A_155565	NW_004515965.1	scaffold512	155565	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75500_A_161678	NW_004515965.1	scaffold512	161678	TT	CC	CC	INTERGENIC			
SNP_75501_A_162088	NW_004515965.1	scaffold512	162088	AA	GG	GG	INTERGENIC			
SNP_75502_A_162215	NW_004515965.1	scaffold512	162215	AA	TT	TT	INTERGENIC			
SNP_75503_A_162323	NW_004515965.1	scaffold512	162323	TT	AA	AA	INTERGENIC			
SNP_75504_A_162349	NW_004515965.1	scaffold512	162349	GG	TT	TT	INTERGENIC			
SNP_75505_A_162366	NW_004515965.1	scaffold512	162366	TT	AA	AA	INTERGENIC			
SNP_75506_A_162392	NW_004515965.1	scaffold512	162392	GG	TT	TT	INTERGENIC			
SNP_75507_A_163476	NW_004515965.1	scaffold512	163476	AA	GG	GG	INTERGENIC			
SNP_75508_A_163477	NW_004515965.1	scaffold512	163477	GG	TT	TT	INTERGENIC			
SNP_75509_A_166690	NW_004515965.1	scaffold512	166690	CC	AA	AA	INTERGENIC			
SNP_75510_A_180334	NW_004515965.1	scaffold512	180334	CC	TT	TT	INTERGENIC			
SNP_75511_A_180335	NW_004515965.1	scaffold512	180335	CC	AA	AA	INTERGENIC			
SNP_75512_A_180366	NW_004515965.1	scaffold512	180366	GG	TT	TT	INTERGENIC			
SNP_75513_A_180429	NW_004515965.1	scaffold512	180429	TT	CC	CC	INTERGENIC			
SNP_75514_A_180645	NW_004515965.1	scaffold512	180645	AA	GG	GG	INTERGENIC			
SNP_75515_A_202	NW_004515966.1	scaffold513	202	TT	CC	CC	INTERGENIC			
SNP_75516_A_297	NW_004515966.1	scaffold513	297	AA	GG	GG	INTERGENIC			
SNP_75517_A_299	NW_004515966.1	scaffold513	299	AA	CC	CC	INTERGENIC			
SNP_75518_A_300	NW_004515966.1	scaffold513	300	AA	TT	TT	INTERGENIC			
SNP_75519_A_584	NW_004515966.1	scaffold513	584	TT	CC	CC	INTERGENIC			
SNP_75520_A_644	NW_004515966.1	scaffold513	644	AA	GG	GG	INTERGENIC			
SNP_75521_A_7241	NW_004515966.1	scaffold513	7241	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75522_A_7296	NW_004515966.1	scaffold513	7296	GG	AA	AA	INTERGENIC			
SNP_75523_A_7752	NW_004515966.1	scaffold513	7752	AA	GG	GG	INTERGENIC			
SNP_75524_A_16908	NW_004515966.1	scaffold513	16908	AA	GG	GG	INTERGENIC			
SNP_75525_A_17096	NW_004515966.1	scaffold513	17096	CC	TT	TT	INTERGENIC			
SNP_75526_A_17381	NW_004515966.1	scaffold513	17381	AA	GG	GG	INTERGENIC			
SNP_75527_A_64	NW_004515967.1	scaffold515	64	AA	CC	CC	INTERGENIC			
SNP_75528_A_82	NW_004515967.1	scaffold515	82	TT	CC	CC	INTERGENIC			
SNP_75529_A_105	NW_004515967.1	scaffold515	105	TT	CC	CC	INTERGENIC			
SNP_75531_A_177	NW_004515967.1	scaffold515	177	AA	GG	GG	INTERGENIC			
SNP_75532_A_400	NW_004515967.1	scaffold515	400	CC	TT	TT	INTERGENIC			
SNP_75533_A_408	NW_004515967.1	scaffold515	408	TT	CC	CC	INTERGENIC			
SNP_75534_A_430	NW_004515967.1	scaffold515	430	AA	GG	GG	INTERGENIC			
SNP_75535_A_523	NW_004515967.1	scaffold515	523	CC	AA	AA	INTERGENIC			
SNP_75536_A_1081	NW_004515967.1	scaffold515	1081	AA	GG	GG	INTERGENIC			
SNP_75537_A_1108	NW_004515967.1	scaffold515	1108	GG	AA	AA	INTERGENIC			
SNP_75538_A_1132	NW_004515967.1	scaffold515	1132	AA	TT	TT	INTERGENIC			
SNP_75539_A_1179	NW_004515967.1	scaffold515	1179	TT	AA	AA	INTERGENIC			
SNP_75540_A_1187	NW_004515967.1	scaffold515	1187	CC	TT	TT	INTERGENIC			
SNP_75541_A_1226	NW_004515967.1	scaffold515	1226	AA	GG	GG	INTERGENIC			
SNP_75542_A_1373	NW_004515967.1	scaffold515	1373	GG	TT	TT	INTERGENIC			
SNP_75543_A_1453	NW_004515967.1	scaffold515	1453	GG	AA	AA	INTERGENIC			
SNP_75544_A_8625	NW_004515967.1	scaffold515	8625	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75545_A_8655	NW_004515967.1	scaffold515	8655	TT	GG	GG	INTERGENIC			
SNP_75546_A_8665	NW_004515967.1	scaffold515	8665	TT	GG	GG	INTERGENIC			
SNP_75547_A_8713	NW_004515967.1	scaffold515	8713	TT	GG	GG	INTERGENIC			
SNP_75548_A_8747	NW_004515967.1	scaffold515	8747	TT	CC	CC	INTERGENIC			
SNP_75549_A_8935	NW_004515967.1	scaffold515	8935	GG	CC	CC	INTERGENIC			
SNP_75550_A_8987	NW_004515967.1	scaffold515	8987	TT	GG	GG	INTERGENIC			
SNP_75551_A_9034	NW_004515967.1	scaffold515	9034	GG	TT	TT	INTERGENIC			
SNP_75552_A_9036	NW_004515967.1	scaffold515	9036	CC	AA	AA	INTERGENIC			
SNP_75553_A_9148	NW_004515967.1	scaffold515	9148	CC	AA	AA	INTERGENIC			
SNP_75554_A_9153	NW_004515967.1	scaffold515	9153	GG	CC	CC	INTERGENIC			
SNP_75555_A_9218	NW_004515967.1	scaffold515	9218	GG	AA	AA	INTERGENIC			
SNP_75556_A_9266	NW_004515967.1	scaffold515	9266	CC	TT	TT	INTERGENIC			
SNP_75557_A_9440	NW_004515967.1	scaffold515	9440	CC	TT	TT	INTERGENIC			
SNP_75558_A_9524	NW_004515967.1	scaffold515	9524	AA	GG	GG	INTERGENIC			
SNP_75559_A_9551	NW_004515967.1	scaffold515	9551	TT	CC	CC	INTERGENIC			
SNP_75560_A_9592	NW_004515967.1	scaffold515	9592	TT	GG	GG	INTERGENIC			
SNP_75561_A_9593	NW_004515967.1	scaffold515	9593	GG	AA	AA	INTERGENIC			
SNP_75562_A_9609	NW_004515967.1	scaffold515	9609	TT	CC	CC	INTERGENIC			
SNP_75563_A_9667	NW_004515967.1	scaffold515	9667	GG	CC	CC	INTERGENIC			
SNP_75564_A_9716	NW_004515967.1	scaffold515	9716	AA	CC	CC	INTERGENIC			
SNP_75565_A_9861	NW_004515967.1	scaffold515	9861	AA	GG	GG	INTERGENIC			
SNP_75566_A_9985	NW_004515967.1	scaffold515	9985	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75567_A_9998	NW_004515967.1	scaffold515	9998	CC	GG	GG	INTERGENIC			
SNP_75568_A_10015	NW_004515967.1	scaffold515	10015	TT	AA	AA	INTERGENIC			
SNP_75569_A_10099	NW_004515967.1	scaffold515	10099	TT	GG	GG	INTERGENIC			
SNP_75570_A_10114	NW_004515967.1	scaffold515	10114	AA	GG	GG	INTERGENIC			
SNP_75571_A_10264	NW_004515967.1	scaffold515	10264	CC	TT	TT	INTERGENIC			
SNP_75572_A_10479	NW_004515967.1	scaffold515	10479	TT	GG	GG	INTERGENIC			
SNP_75573_A_10535	NW_004515967.1	scaffold515	10535	GG	CC	CC	INTERGENIC			
SNP_75574_A_10646	NW_004515967.1	scaffold515	10646	AA	TT	TT	INTERGENIC			
SNP_75575_A_10677	NW_004515967.1	scaffold515	10677	AA	GG	GG	INTERGENIC			
SNP_75576_A_10678	NW_004515967.1	scaffold515	10678	AA	TT	TT	INTERGENIC			
SNP_75577_A_10723	NW_004515967.1	scaffold515	10723	GG	TT	TT	INTERGENIC			
SNP_75578_A_10791	NW_004515967.1	scaffold515	10791	TT	CC	CC	INTERGENIC			
SNP_75579_A_10812	NW_004515967.1	scaffold515	10812	GG	AA	AA	INTERGENIC			
SNP_75580_A_10990	NW_004515967.1	scaffold515	10990	TT	CC	CC	INTERGENIC			
SNP_75581_A_11016	NW_004515967.1	scaffold515	11016	CC	TT	TT	INTERGENIC			
SNP_75582_A_11018	NW_004515967.1	scaffold515	11018	AA	TT	TT	INTERGENIC			
SNP_75583_A_11069	NW_004515967.1	scaffold515	11069	TT	CC	CC	INTERGENIC			
SNP_75584_A_11070	NW_004515967.1	scaffold515	11070	CC	GG	GG	INTERGENIC			
SNP_75585_A_11980	NW_004515967.1	scaffold515	11980	GG	AA	AA	INTERGENIC			
SNP_75586_A_12032	NW_004515967.1	scaffold515	12032	GG	AA	AA	INTERGENIC			
SNP_75587_A_12206	NW_004515967.1	scaffold515	12206	TT	AA	AA	INTERGENIC			
SNP_75588_A_12314	NW_004515967.1	scaffold515	12314	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75589_A_12635	NW_004515967.1	scaffold515	12635	TT	CC	CC	INTERGENIC			
SNP_75590_A_12687	NW_004515967.1	scaffold515	12687	CC	GG	GG	INTERGENIC			
SNP_75591_A_12807	NW_004515967.1	scaffold515	12807	CC	AA	AA	INTERGENIC			
SNP_75592_A_12819	NW_004515967.1	scaffold515	12819	AA	GG	GG	INTERGENIC			
SNP_75593_A_12917	NW_004515967.1	scaffold515	12917	GG	TT	TT	INTERGENIC			
SNP_75594_A_13044	NW_004515967.1	scaffold515	13044	TT	CC	CC	INTERGENIC			
SNP_75595_A_15601	NW_004515967.1	scaffold515	15601	TT	GG	GG	INTERGENIC			
SNP_75596_A_15623	NW_004515967.1	scaffold515	15623	GG	TT	TT	INTERGENIC			
SNP_75597_A_15801	NW_004515967.1	scaffold515	15801	GG	AA	AA	INTERGENIC			
SNP_75598_A_16006	NW_004515967.1	scaffold515	16006	TT	CC	CC	INTERGENIC			
SNP_75599_A_16014	NW_004515967.1	scaffold515	16014	CC	TT	TT	INTERGENIC			
SNP_75600_A_16176	NW_004515967.1	scaffold515	16176	GG	TT	TT	INTERGENIC			
SNP_75602_A_19553	NW_004515967.1	scaffold515	19553	CC	TT	TT	INTERGENIC			
SNP_75603_A_24307	NW_004515967.1	scaffold515	24307	CC	TT	TT	INTERGENIC			
SNP_75604_A_24383	NW_004515967.1	scaffold515	24383	TT	AA	AA	INTERGENIC			
SNP_75605_A_26038	NW_004515967.1	scaffold515	26038	CC	AA	AA	INTERGENIC			
SNP_75606_A_26076	NW_004515967.1	scaffold515	26076	TT	AA	AA	INTERGENIC			
SNP_75607_A_26189	NW_004515967.1	scaffold515	26189	CC	TT	TT	INTERGENIC			
SNP_75608_A_26393	NW_004515967.1	scaffold515	26393	TT	CC	CC	INTERGENIC			
SNP_75609_A_26454	NW_004515967.1	scaffold515	26454	TT	GG	GG	INTERGENIC			
SNP_75610_A_26485	NW_004515967.1	scaffold515	26485	TT	CC	CC	INTERGENIC			
SNP_75611_A_27274	NW_004515967.1	scaffold515	27274	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75612_A_28305	NW_004515967.1	scaffold515	28305	TT	GG	GG	INTERGENIC			
SNP_75613_A_28390	NW_004515967.1	scaffold515	28390	AA	GG	GG	INTERGENIC			
SNP_75614_A_28423	NW_004515967.1	scaffold515	28423	AA	GG	GG	INTERGENIC			
SNP_75615_A_28463	NW_004515967.1	scaffold515	28463	GG	AA	AA	INTERGENIC			
SNP_75616_A_28678	NW_004515967.1	scaffold515	28678	TT	GG	GG	INTERGENIC			
SNP_75617_A_28713	NW_004515967.1	scaffold515	28713	GG	AA	AA	INTERGENIC			
SNP_75618_A_29043	NW_004515967.1	scaffold515	29043	AA	GG	GG	INTERGENIC			
SNP_75619_A_29374	NW_004515967.1	scaffold515	29374	GG	CC	CC	INTERGENIC			
SNP_75620_A_29495	NW_004515967.1	scaffold515	29495	TT	CC	CC	INTERGENIC			
SNP_75621_A_29729	NW_004515967.1	scaffold515	29729	TT	CC	CC	INTERGENIC			
SNP_75622_A_29736	NW_004515967.1	scaffold515	29736	CC	TT	TT	INTERGENIC			
SNP_75623_A_29790	NW_004515967.1	scaffold515	29790	TT	CC	CC	INTERGENIC			
SNP_75624_A_29969	NW_004515967.1	scaffold515	29969	AA	GG	GG	INTERGENIC			
SNP_75625_A_30544	NW_004515967.1	scaffold515	30544	CC	AA	AA	INTERGENIC			
SNP_75626_A_30578	NW_004515967.1	scaffold515	30578	GG	AA	AA	INTERGENIC			
SNP_75627_A_30580	NW_004515967.1	scaffold515	30580	AA	CC	CC	INTERGENIC			
SNP_75628_A_30587	NW_004515967.1	scaffold515	30587	GG	AA	AA	INTERGENIC			
SNP_75629_A_30655	NW_004515967.1	scaffold515	30655	GG	AA	AA	INTERGENIC			
SNP_75630_A_30684	NW_004515967.1	scaffold515	30684	TT	CC	CC	INTERGENIC			
SNP_75631_A_30697	NW_004515967.1	scaffold515	30697	GG	CC	CC	INTERGENIC			
SNP_75632_A_30708	NW_004515967.1	scaffold515	30708	GG	TT	TT	INTERGENIC			
SNP_75633_A_30715	NW_004515967.1	scaffold515	30715	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75634_A_30759	NW_004515967.1	scaffold515	30759	AA	GG	GG	INTERGENIC			
SNP_75635_A_30788	NW_004515967.1	scaffold515	30788	AA	TT	TT	INTERGENIC			
SNP_75636_A_30796	NW_004515967.1	scaffold515	30796	AA	CC	CC	INTERGENIC			
SNP_75637_A_30799	NW_004515967.1	scaffold515	30799	CC	GG	GG	INTERGENIC			
SNP_75638_A_30819	NW_004515967.1	scaffold515	30819	AA	TT	CC	INTERGENIC			
SNP_75639_A_30868	NW_004515967.1	scaffold515	30868	AA	GG	GG	INTERGENIC			
SNP_75640_A_30872	NW_004515967.1	scaffold515	30872	GG	TT	TT	INTERGENIC			
SNP_75641_A_30882	NW_004515967.1	scaffold515	30882	AA	GG	GG	INTERGENIC			
SNP_75642_A_30938	NW_004515967.1	scaffold515	30938	AA	GG	GG	INTERGENIC			
SNP_75643_A_30994	NW_004515967.1	scaffold515	30994	TT	CC	CC	INTERGENIC			
SNP_75644_A_31126	NW_004515967.1	scaffold515	31126	GG	AA	AA	INTERGENIC			
SNP_75645_A_31237	NW_004515967.1	scaffold515	31237	GG	TT	TT	INTERGENIC			
SNP_75646_A_31279	NW_004515967.1	scaffold515	31279	CC	TT	TT	INTERGENIC			
SNP_75647_A_31314	NW_004515967.1	scaffold515	31314	CC	TT	TT	INTERGENIC			
SNP_75648_A_31390	NW_004515967.1	scaffold515	31390	AA	GG	GG	INTERGENIC			
SNP_75649_A_31531	NW_004515967.1	scaffold515	31531	AA	CC	CC	INTERGENIC			
SNP_75650_A_31564	NW_004515967.1	scaffold515	31564	GG	CC	CC	INTERGENIC			
SNP_75651_A_31671	NW_004515967.1	scaffold515	31671	AA	TT	TT	INTERGENIC			
SNP_75652_A_31848	NW_004515967.1	scaffold515	31848	TT	CC	CC	INTERGENIC			
SNP_75653_A_31865	NW_004515967.1	scaffold515	31865	CC	GG	GG	INTERGENIC			
SNP_75654_A_31976	NW_004515967.1	scaffold515	31976	AA	GG	GG	INTERGENIC			
SNP_75655_A_32272	NW_004515967.1	scaffold515	32272	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75656_A_32483	NW_004515967.1	scaffold515	32483	TT	GG	GG	INTERGENIC			
SNP_75657_A_32488	NW_004515967.1	scaffold515	32488	TT	CC	CC	INTERGENIC			
SNP_75658_A_32632	NW_004515967.1	scaffold515	32632	TT	GG	GG	INTERGENIC			
SNP_75659_A_32694	NW_004515967.1	scaffold515	32694	TT	GG	GG	INTERGENIC			
SNP_75660_A_33093	NW_004515967.1	scaffold515	33093	AA	TT	TT	INTERGENIC			
SNP_75661_A_33147	NW_004515967.1	scaffold515	33147	TT	CC	CC	INTERGENIC			
SNP_75662_A_33155	NW_004515967.1	scaffold515	33155	AA	GG	GG	INTERGENIC			
SNP_75663_A_33186	NW_004515967.1	scaffold515	33186	TT	CC	CC	INTERGENIC			
SNP_75664_A_33216	NW_004515967.1	scaffold515	33216	TT	CC	CC	INTERGENIC			
SNP_75665_A_33244	NW_004515967.1	scaffold515	33244	AA	GG	GG	INTERGENIC			
SNP_75666_A_33320	NW_004515967.1	scaffold515	33320	GG	AA	AA	INTERGENIC			
SNP_75667_A_33391	NW_004515967.1	scaffold515	33391	TT	CC	CC	INTERGENIC			
SNP_75668_A_33397	NW_004515967.1	scaffold515	33397	AA	TT	TT	INTERGENIC			
SNP_75669_A_33483	NW_004515967.1	scaffold515	33483	GG	AA	AA	INTERGENIC			
SNP_75670_A_33953	NW_004515967.1	scaffold515	33953	TT	AA	AA	INTERGENIC			
SNP_75671_A_33968	NW_004515967.1	scaffold515	33968	TT	CC	CC	INTERGENIC			
SNP_75672_A_34131	NW_004515967.1	scaffold515	34131	CC	AA	AA	INTERGENIC			
SNP_75673_A_34193	NW_004515967.1	scaffold515	34193	CC	TT	TT	INTERGENIC			
SNP_75674_A_34300	NW_004515967.1	scaffold515	34300	GG	AA	AA	INTERGENIC			
SNP_75675_A_34319	NW_004515967.1	scaffold515	34319	TT	CC	CC	INTERGENIC			
SNP_75676_A_34368	NW_004515967.1	scaffold515	34368	TT	CC	CC	INTERGENIC			
SNP_75677_A_34501	NW_004515967.1	scaffold515	34501	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75678_A_34519	NW_004515967.1	scaffold515	34519	TT	CC	CC	INTERGENIC			
SNP_75679_A_34603	NW_004515967.1	scaffold515	34603	CC	GG	GG	INTERGENIC			
SNP_75680_A_34685	NW_004515967.1	scaffold515	34685	CC	AA	AA	INTERGENIC			
SNP_75681_A_34722	NW_004515967.1	scaffold515	34722	TT	AA	AA	INTERGENIC			
SNP_75682_A_36307	NW_004515967.1	scaffold515	36307	GG	AA	AA	INTERGENIC			
SNP_75683_A_36527	NW_004515967.1	scaffold515	36527	TT	GG	GG	INTERGENIC			
SNP_75684_A_36565	NW_004515967.1	scaffold515	36565	GG	TT	TT	INTERGENIC			
SNP_75685_A_36587	NW_004515967.1	scaffold515	36587	TT	CC	CC	INTERGENIC			
SNP_75686_A_36666	NW_004515967.1	scaffold515	36666	TT	CC	CC	INTERGENIC			
SNP_75687_A_36670	NW_004515967.1	scaffold515	36670	TT	AA	AA	INTERGENIC			
SNP_75688_A_36672	NW_004515967.1	scaffold515	36672	AA	TT	TT	INTERGENIC			
SNP_75689_A_38600	NW_004515967.1	scaffold515	38600	GG	TT	TT	INTERGENIC			
SNP_75690_A_38639	NW_004515967.1	scaffold515	38639	AA	CC	CC	INTERGENIC			
SNP_75691_A_38887	NW_004515967.1	scaffold515	38887	AA	GG	GG	INTERGENIC			
SNP_75692_A_38994	NW_004515967.1	scaffold515	38994	AA	TT	TT	INTERGENIC			
SNP_75693_A_39160	NW_004515967.1	scaffold515	39160	GG	AA	AA	INTERGENIC			
SNP_75694_A_39361	NW_004515967.1	scaffold515	39361	AA	TT	TT	INTERGENIC			
SNP_75695_A_39488	NW_004515967.1	scaffold515	39488	TT	AA	AA	INTERGENIC			
SNP_75696_A_39507	NW_004515967.1	scaffold515	39507	AA	CC	CC	INTERGENIC			
SNP_75697_A_42056	NW_004515967.1	scaffold515	42056	TT	AA	AA	INTERGENIC			
SNP_75698_A_42144	NW_004515967.1	scaffold515	42144	AA	TT	TT	INTERGENIC			
SNP_75699_A_42569	NW_004515967.1	scaffold515	42569	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75700_A_42749	NW_004515967.1	scaffold515	42749	AA	GG	GG	INTERGENIC			
SNP_75702_A_42843	NW_004515967.1	scaffold515	42843	AA	GG	GG	INTERGENIC			
SNP_75703_A_42851	NW_004515967.1	scaffold515	42851	TT	CC	CC	INTERGENIC			
SNP_75704_A_42885	NW_004515967.1	scaffold515	42885	TT	CC	CC	INTERGENIC			
SNP_75705_A_42968	NW_004515967.1	scaffold515	42968	TT	CC	CC	INTERGENIC			
SNP_75706_A_42992	NW_004515967.1	scaffold515	42992	CC	TT	TT	INTERGENIC			
SNP_75708_A_43058	NW_004515967.1	scaffold515	43058	GG	TT	TT	INTERGENIC			
SNP_75709_A_43118	NW_004515967.1	scaffold515	43118	CC	TT	TT	INTERGENIC			
SNP_75710_A_43131	NW_004515967.1	scaffold515	43131	CC	TT	TT	INTERGENIC			
SNP_75711_A_43196	NW_004515967.1	scaffold515	43196	GG	TT	TT	INTERGENIC			
SNP_75712_A_43271	NW_004515967.1	scaffold515	43271	TT	CC	CC	INTERGENIC			
SNP_75713_A_43506	NW_004515967.1	scaffold515	43506	GG	AA	AA	INTERGENIC			
SNP_75714_A_43581	NW_004515967.1	scaffold515	43581	TT	GG	GG	INTERGENIC			
SNP_75715_A_43594	NW_004515967.1	scaffold515	43594	TT	CC	CC	INTERGENIC			
SNP_75716_A_43636	NW_004515967.1	scaffold515	43636	CC	TT	TT	INTERGENIC			
SNP_75717_A_43762	NW_004515967.1	scaffold515	43762	CC	TT	TT	INTERGENIC			
SNP_75718_A_43769	NW_004515967.1	scaffold515	43769	TT	GG	GG	INTERGENIC			
SNP_75719_A_44632	NW_004515967.1	scaffold515	44632	GG	TT	TT	INTERGENIC			
SNP_75720_A_44640	NW_004515967.1	scaffold515	44640	AA	CC	CC	INTERGENIC			
SNP_75721_A_44644	NW_004515967.1	scaffold515	44644	TT	CC	CC	INTERGENIC			
SNP_75722_A_44692	NW_004515967.1	scaffold515	44692	GG	CC	CC	INTERGENIC			
SNP_75723_A_44751	NW_004515967.1	scaffold515	44751	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75724_A_44777	NW_004515967.1	scaffold515	44777	CC	TT	TT	INTERGENIC			
SNP_75725_A_44779	NW_004515967.1	scaffold515	44779	AA	GG	GG	INTERGENIC			
SNP_75726_A_44843	NW_004515967.1	scaffold515	44843	TT	CC	CC	INTERGENIC			
SNP_75727_A_44961	NW_004515967.1	scaffold515	44961	AA	CC	CC	INTERGENIC			
SNP_75728_A_45022	NW_004515967.1	scaffold515	45022	CC	TT	TT	INTERGENIC			
SNP_75729_A_45033	NW_004515967.1	scaffold515	45033	GG	TT	TT	INTERGENIC			
SNP_75730_A_45097	NW_004515967.1	scaffold515	45097	AA	TT	TT	INTERGENIC			
SNP_75731_A_45126	NW_004515967.1	scaffold515	45126	TT	CC	CC	INTERGENIC			
SNP_75732_A_45265	NW_004515967.1	scaffold515	45265	CC	GG	GG	INTERGENIC			
SNP_75733_A_45408	NW_004515967.1	scaffold515	45408	CC	TT	TT	INTERGENIC			
SNP_75734_A_45463	NW_004515967.1	scaffold515	45463	AA	GG	GG	INTERGENIC			
SNP_75735_A_45476	NW_004515967.1	scaffold515	45476	GG	AA	AA	INTERGENIC			
SNP_75736_A_45513	NW_004515967.1	scaffold515	45513	GG	AA	AA	INTERGENIC			
SNP_75737_A_45545	NW_004515967.1	scaffold515	45545	AA	TT	TT	INTERGENIC			
SNP_75738_A_45654	NW_004515967.1	scaffold515	45654	TT	CC	CC	INTERGENIC			
SNP_75739_A_46020	NW_004515967.1	scaffold515	46020	GG	CC	CC	INTERGENIC			
SNP_75740_A_46106	NW_004515967.1	scaffold515	46106	CC	AA	AA	INTERGENIC			
SNP_75741_A_46114	NW_004515967.1	scaffold515	46114	AA	GG	GG	INTERGENIC			
SNP_75742_A_46299	NW_004515967.1	scaffold515	46299	AA	CC	CC	INTERGENIC			
SNP_75743_A_46332	NW_004515967.1	scaffold515	46332	TT	GG	GG	INTERGENIC			
SNP_75744_A_46358	NW_004515967.1	scaffold515	46358	TT	CC	CC	INTERGENIC			
SNP_75745_A_46374	NW_004515967.1	scaffold515	46374	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75746_A_46398	NW_004515967.1	scaffold515	46398	TT	CC	CC	INTERGENIC			
SNP_75747_A_46421	NW_004515967.1	scaffold515	46421	CC	AA	AA	INTERGENIC			
SNP_75748_A_46452	NW_004515967.1	scaffold515	46452	CC	TT	TT	INTERGENIC			
SNP_75749_A_46496	NW_004515967.1	scaffold515	46496	AA	CC	CC	INTERGENIC			
SNP_75750_A_46861	NW_004515967.1	scaffold515	46861	CC	AA	AA	INTERGENIC			
SNP_75751_A_47021	NW_004515967.1	scaffold515	47021	CC	GG	GG	INTERGENIC			
SNP_75752_A_47326	NW_004515967.1	scaffold515	47326	TT	GG	GG	INTERGENIC			
SNP_75753_A_47356	NW_004515967.1	scaffold515	47356	AA	GG	GG	INTERGENIC			
SNP_75754_A_47430	NW_004515967.1	scaffold515	47430	GG	AA	AA	INTERGENIC			
SNP_75755_A_47434	NW_004515967.1	scaffold515	47434	CC	GG	GG	INTERGENIC			
SNP_75756_A_60210	NW_004515967.1	scaffold515	60210	CC	TT	TT	INTERGENIC			
SNP_75757_A_61285	NW_004515967.1	scaffold515	61285	GG	AA	AA	INTERGENIC			
SNP_75758_A_61521	NW_004515967.1	scaffold515	61521	GG	CC	CC	INTERGENIC			
SNP_75759_A_61571	NW_004515967.1	scaffold515	61571	CC	TT	TT	INTERGENIC			
SNP_75760_A_61578	NW_004515967.1	scaffold515	61578	TT	CC	CC	INTERGENIC			
SNP_75761_A_61585	NW_004515967.1	scaffold515	61585	AA	CC	CC	INTERGENIC			
SNP_75762_A_61624	NW_004515967.1	scaffold515	61624	TT	GG	GG	INTERGENIC			
SNP_75763_A_61835	NW_004515967.1	scaffold515	61835	GG	AA	AA	INTERGENIC			
SNP_75764_A_61917	NW_004515967.1	scaffold515	61917	CC	AA	AA	INTERGENIC			
SNP_75765_A_61959	NW_004515967.1	scaffold515	61959	GG	TT	TT	INTERGENIC			
SNP_75766_A_62034	NW_004515967.1	scaffold515	62034	AA	GG	GG	INTERGENIC			
SNP_75767_A_62055	NW_004515967.1	scaffold515	62055	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75768_A_62056	NW_004515967.1	scaffold515	62056	TT	CC	CC	INTERGENIC			
SNP_75769_A_62138	NW_004515967.1	scaffold515	62138	AA	TT	TT	INTERGENIC			
SNP_75770_A_62139	NW_004515967.1	scaffold515	62139	CC	TT	TT	INTERGENIC			
SNP_75771_A_62152	NW_004515967.1	scaffold515	62152	GG	AA	AA	INTERGENIC			
SNP_75772_A_62311	NW_004515967.1	scaffold515	62311	CC	GG	GG	INTERGENIC			
SNP_75773_A_62354	NW_004515967.1	scaffold515	62354	AA	TT	TT	INTERGENIC			
SNP_75774_A_62381	NW_004515967.1	scaffold515	62381	CC	GG	GG	INTERGENIC			
SNP_75775_A_62457	NW_004515967.1	scaffold515	62457	CC	TT	TT	INTERGENIC			
SNP_75776_A_72678	NW_004515967.1	scaffold515	72678	AA	CC	CC	INTERGENIC			
SNP_75777_A_72680	NW_004515967.1	scaffold515	72680	GG	AA	AA	INTERGENIC			
SNP_75778_A_72756	NW_004515967.1	scaffold515	72756	TT	CC	CC	INTERGENIC			
SNP_75779_A_72786	NW_004515967.1	scaffold515	72786	AA	CC	CC	INTERGENIC			
SNP_75780_A_72806	NW_004515967.1	scaffold515	72806	TT	CC	CC	INTERGENIC			
SNP_75781_A_72843	NW_004515967.1	scaffold515	72843	TT	GG	GG	INTERGENIC			
SNP_75782_A_73028	NW_004515967.1	scaffold515	73028	CC	TT	TT	INTERGENIC			
SNP_75783_A_74881	NW_004515967.1	scaffold515	74881	GG	AA	AA	INTERGENIC			
SNP_75784_A_82556	NW_004515967.1	scaffold515	82556	TT	CC	CC	INTERGENIC			
SNP_75785_A_89350	NW_004515967.1	scaffold515	89350	AA	GG	GG	INTERGENIC			
SNP_75786_A_90982	NW_004515967.1	scaffold515	90982	CC	AA	AA	INTERGENIC			
SNP_75787_A_100466	NW_004515967.1	scaffold515	100466	AA	GG	GG	INTERGENIC			
SNP_75788_A_108357	NW_004515967.1	scaffold515	108357	TT	CC	CC	INTERGENIC			
SNP_75789_A_132468	NW_004515967.1	scaffold515	132468	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75790_A_137280	NW_004515967.1	scaffold515	137280	GG	CC	CC	INTERGENIC			
SNP_75791_A_160768	NW_004515967.1	scaffold515	160768	GG	AA	AA	INTERGENIC			
SNP_75792_A_170604	NW_004515967.1	scaffold515	170604	AA	CC	CC	INTERGENIC			
SNP_75793_A_171526	NW_004515967.1	scaffold515	171526	AA	GG	GG	INTERGENIC			
SNP_75794_A_174920	NW_004515967.1	scaffold515	174920	GG	AA	AA	INTERGENIC			
SNP_75795_A_174972	NW_004515967.1	scaffold515	174972	TT	GG	GG	INTERGENIC			
SNP_75796_A_175278	NW_004515967.1	scaffold515	175278	GG	TT	TT	INTERGENIC			
SNP_75797_A_187504	NW_004515967.1	scaffold515	187504	CC	AA	AA	INTERGENIC			
SNP_75798_A_194615	NW_004515967.1	scaffold515	194615	CC	AA	AA	INTERGENIC			
SNP_75799_A_194623	NW_004515967.1	scaffold515	194623	CC	GG	GG	INTERGENIC			
SNP_75801_A_194689	NW_004515967.1	scaffold515	194689	AA	CC	CC	INTERGENIC			
SNP_75802_A_194934	NW_004515967.1	scaffold515	194934	TT	GG	GG	INTERGENIC			
SNP_75803_A_198071	NW_004515967.1	scaffold515	198071	TT	AA	AA	INTERGENIC			
SNP_75804_A_198085	NW_004515967.1	scaffold515	198085	AA	GG	GG	INTERGENIC			
SNP_75805_A_198405	NW_004515967.1	scaffold515	198405	AA	TT	TT	INTERGENIC			
SNP_75806_A_198409	NW_004515967.1	scaffold515	198409	TT	CC	CC	INTERGENIC			
SNP_75807_A_198437	NW_004515967.1	scaffold515	198437	AA	TT	TT	INTERGENIC			
SNP_75808_A_198459	NW_004515967.1	scaffold515	198459	GG	AA	AA	INTERGENIC			
SNP_75809_A_198476	NW_004515967.1	scaffold515	198476	TT	CC	CC	INTERGENIC			
SNP_75810_A_198504	NW_004515967.1	scaffold515	198504	CC	TT	TT	INTERGENIC			
SNP_75811_A_198988	NW_004515967.1	scaffold515	198988	TT	CC	CC	INTERGENIC			
SNP_75812_A_198993	NW_004515967.1	scaffold515	198993	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75813_A_199411	NW_004515967.1	scaffold515	199411	TT	AA	AA	INTERGENIC			
SNP_75814_A_207019	NW_004515967.1	scaffold515	207019	CC	TT	TT	INTERGENIC			
SNP_75815_A_208751	NW_004515967.1	scaffold515	208751	CC	TT	TT	INTERGENIC			
SNP_75817_A_216714	NW_004515967.1	scaffold515	216714	GG	CC	CC	INTERGENIC			
SNP_75818_A_216811	NW_004515967.1	scaffold515	216811	AA	GG	GG	INTERGENIC			
SNP_75819_A_217073	NW_004515967.1	scaffold515	217073	GG	AA	AA	INTERGENIC			
SNP_75820_A_233189	NW_004515967.1	scaffold515	233189	CC	TT	TT	INTERGENIC			
SNP_75821_A_233283	NW_004515967.1	scaffold515	233283	TT	CC	CC	INTERGENIC			
SNP_75822_A_234979	NW_004515967.1	scaffold515	234979	GG	AA	AA	INTERGENIC			
SNP_75823_A_235325	NW_004515967.1	scaffold515	235325	TT	AA	AA	INTERGENIC			
SNP_75824_A_235393	NW_004515967.1	scaffold515	235393	AA	TT	TT	INTERGENIC			
SNP_75826_A_235439	NW_004515967.1	scaffold515	235439	AA	GG	GG	INTERGENIC			
SNP_75827_A_235449	NW_004515967.1	scaffold515	235449	AA	CC	CC	INTERGENIC			
SNP_75828_A_235534	NW_004515967.1	scaffold515	235534	GG	AA	AA	INTERGENIC			
SNP_75829_A_242099	NW_004515967.1	scaffold515	242099	TT	CC	CC	INTERGENIC			
SNP_75831_A_242331	NW_004515967.1	scaffold515	242331	AA	GG	GG	INTERGENIC			
SNP_75832_A_242483	NW_004515967.1	scaffold515	242483	AA	CC	CC	INTERGENIC			
SNP_75833_A_266007	NW_004515967.1	scaffold515	266007	GG	AA	AA	INTERGENIC			
SNP_75834_A_266178	NW_004515967.1	scaffold515	266178	AA	TT	TT	INTERGENIC			
SNP_75836_A_266468	NW_004515967.1	scaffold515	266468	GG	AA	AA	INTERGENIC			
SNP_75837_A_272482	NW_004515967.1	scaffold515	272482	TT	CC	CC	INTERGENIC			
SNP_75838_A_276985	NW_004515967.1	scaffold515	276985	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75839_A_277054	NW_004515967.1	scaffold515	277054	AA	GG	GG	INTERGENIC			
SNP_75840_A_277323	NW_004515967.1	scaffold515	277323	TT	GG	GG	INTERGENIC			
SNP_75841_A_277374	NW_004515967.1	scaffold515	277374	AA	GG	GG	INTERGENIC			
SNP_75842_A_277378	NW_004515967.1	scaffold515	277378	AA	CC	CC	INTERGENIC			
SNP_75843_A_281074	NW_004515967.1	scaffold515	281074	CC	GG	GG	INTERGENIC			
SNP_75844_A_281094	NW_004515967.1	scaffold515	281094	CC	AA	AA	INTERGENIC			
SNP_75845_A_281490	NW_004515967.1	scaffold515	281490	CC	TT	TT	INTERGENIC			
SNP_75846_A_368	NW_004515968.1	scaffold520	368	CC	TT	TT	INTERGENIC			
SNP_75847_A_700	NW_004515968.1	scaffold520	700	CC	AA	AA	INTERGENIC			
SNP_75848_A_738	NW_004515968.1	scaffold520	738	AA	GG	GG	INTERGENIC			
SNP_75849_A_1022	NW_004515968.1	scaffold520	1022	TT	AA	AA	INTERGENIC			
SNP_75850_A_21554	NW_004515968.1	scaffold520	21554	CC	TT	TT	INTERGENIC			
SNP_75851_A_21600	NW_004515968.1	scaffold520	21600	CC	TT	TT	INTERGENIC			
SNP_75852_A_21607	NW_004515968.1	scaffold520	21607	AA	TT	TT	INTERGENIC			
SNP_75853_A_21619	NW_004515968.1	scaffold520	21619	AA	GG	GG	INTERGENIC			
SNP_75854_A_21621	NW_004515968.1	scaffold520	21621	TT	GG	GG	INTERGENIC			
SNP_75855_A_22039	NW_004515968.1	scaffold520	22039	CC	GG	GG	INTERGENIC			
SNP_75856_A_22087	NW_004515968.1	scaffold520	22087	CC	TT	TT	INTERGENIC			
SNP_75857_A_22194	NW_004515968.1	scaffold520	22194	AA	GG	GG	INTERGENIC			
SNP_75858_A_26319	NW_004515968.1	scaffold520	26319	AA	GG	GG	INTERGENIC			
SNP_75859_A_26320	NW_004515968.1	scaffold520	26320	AA	TT	TT	INTERGENIC			
SNP_75860_A_33939	NW_004515968.1	scaffold520	33939	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75861_A_33949	NW_004515968.1	scaffold520	33949	GG	AA	AA	INTERGENIC			
SNP_75862_A_37545	NW_004515968.1	scaffold520	37545	AA	TT	TT	INTERGENIC			
SNP_75863_A_60910	NW_004515968.1	scaffold520	60910	GG	TT	TT	INTERGENIC			
SNP_75864_A_71973	NW_004515968.1	scaffold520	71973	AA	TT	TT	INTERGENIC			
SNP_75865_A_77509	NW_004515968.1	scaffold520	77509	TT	CC	CC	INTERGENIC			
SNP_75866_A_77524	NW_004515968.1	scaffold520	77524	TT	GG	GG	INTERGENIC			
SNP_75867_A_78435	NW_004515968.1	scaffold520	78435	AA	TT	TT	INTERGENIC			
SNP_75868_A_87436	NW_004515968.1	scaffold520	87436	TT	AA	AA	INTERGENIC			
SNP_75869_A_105674	NW_004515968.1	scaffold520	105674	GG	AA	AA	INTERGENIC			
SNP_75870_A_109209	NW_004515968.1	scaffold520	109209	CC	GG	GG	INTERGENIC			
SNP_75871_A_109269	NW_004515968.1	scaffold520	109269	AA	CC	CC	INTERGENIC			
SNP_75872_A_120236	NW_004515968.1	scaffold520	120236	TT	CC	CC	INTERGENIC			
SNP_75873_A_120422	NW_004515968.1	scaffold520	120422	CC	TT	TT	INTERGENIC			
SNP_75874_A_120436	NW_004515968.1	scaffold520	120436	TT	CC	CC	INTERGENIC			
SNP_75875_A_120443	NW_004515968.1	scaffold520	120443	CC	GG	GG	INTERGENIC			
SNP_75876_A_120504	NW_004515968.1	scaffold520	120504	AA	TT	TT	INTERGENIC			
SNP_75877_A_120511	NW_004515968.1	scaffold520	120511	TT	CC	CC	INTERGENIC			
SNP_75878_A_120517	NW_004515968.1	scaffold520	120517	TT	AA	AA	INTERGENIC			
SNP_75879_A_120520	NW_004515968.1	scaffold520	120520	TT	CC	CC	INTERGENIC			
SNP_75880_A_120547	NW_004515968.1	scaffold520	120547	AA	GG	GG	INTERGENIC			
SNP_75881_A_120564	NW_004515968.1	scaffold520	120564	AA	TT	TT	INTERGENIC			
SNP_75882_A_120577	NW_004515968.1	scaffold520	120577	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_75884_A_129703	NW_004515968.1	scaffold520	129703	TT	AA	AA	INTERGENIC		
SNP_75885_A_142687	NW_004515968.1	scaffold520	142687	CC	TT	TT	INTERGENIC		
SNP_75886_A_142698	NW_004515968.1	scaffold520	142698	GG	AA	AA	INTERGENIC		
SNP_75887_A_142722	NW_004515968.1	scaffold520	142722	CC	AA	AA	INTERGENIC		
SNP_75888_A_142888	NW_004515968.1	scaffold520	142888	TT	CC	CC	INTERGENIC		
SNP_75889_A_142926	NW_004515968.1	scaffold520	142926	TT	CC	CC	INTERGENIC		
SNP_75890_A_142968	NW_004515968.1	scaffold520	142968	CC	TT	TT	INTERGENIC		
SNP_75891_A_142997	NW_004515968.1	scaffold520	142997	GG	AA	AA	INTERGENIC		
SNP_75892_A_143120	NW_004515968.1	scaffold520	143120	TT	CC	CC	INTERGENIC		
SNP_75894_A_143339	NW_004515968.1	scaffold520	143339	AA	GG	GG	INTERGENIC		
SNP_75895_A_143377	NW_004515968.1	scaffold520	143377	TT	CC	CC	INTERGENIC		
SNP_75896_A_143424	NW_004515968.1	scaffold520	143424	CC	GG	GG	INTERGENIC		
SNP_75897_A_160972	NW_004515968.1	scaffold520	160972	TT	GG	GG	INTRON	101515316	uncharacterized LOC101515316
SNP_75898_A_161119	NW_004515968.1	scaffold520	161119	AA	GG	GG	NON_SYNONYMOUS_CODING	101515316	uncharacterized LOC101515316
SNP_75899_A_161449	NW_004515968.1	scaffold520	161449	GG	TT	TT	URR	101515316	uncharacterized LOC101515316
SNP_75900_A_161523	NW_004515968.1	scaffold520	161523	CC	TT	TT	URR	101515316	uncharacterized LOC101515316
SNP_75901_A_161551	NW_004515968.1	scaffold520	161551	CC	TT	TT	URR	101515316	uncharacterized LOC101515316
SNP_75902_A_161722	NW_004515968.1	scaffold520	161722	TT	CC	CC	URR	101515316	uncharacterized LOC101515316
SNP_75903_A_165763	NW_004515968.1	scaffold520	165763	GG	TT	TT	INTERGENIC		
SNP_75904_A_167828	NW_004515968.1	scaffold520	167828	AA	GG	GG	INTERGENIC		
SNP_75905_A_167957	NW_004515968.1	scaffold520	167957	AA	TT	TT	INTERGENIC		
SNP_75906_A_168084	NW_004515968.1	scaffold520	168084	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75907_A_182237	NW_004515968.1	scaffold520	182237	GG	AA	AA	INTERGENIC			
SNP_75908_A_227738	NW_004515968.1	scaffold520	227738	GG	AA	AA	INTERGENIC			
SNP_75909_A_229860	NW_004515968.1	scaffold520	229860	AA	GG	GG	INTERGENIC			
SNP_75910_A_229870	NW_004515968.1	scaffold520	229870	AA	CC	CC	INTERGENIC			
SNP_75911_A_230799	NW_004515968.1	scaffold520	230799	AA	GG	GG	INTERGENIC			
SNP_75912_A_230800	NW_004515968.1	scaffold520	230800	CC	TT	TT	INTERGENIC			
SNP_75913_A_230820	NW_004515968.1	scaffold520	230820	AA	TT	TT	INTERGENIC			
SNP_75914_A_230828	NW_004515968.1	scaffold520	230828	GG	AA	AA	INTERGENIC			
SNP_75915_A_231856	NW_004515968.1	scaffold520	231856	GG	AA	AA	INTERGENIC			
SNP_75916_A_231930	NW_004515968.1	scaffold520	231930	CC	GG	GG	INTERGENIC			
SNP_75918_A_12632	NW_004515969.1	scaffold523	12632	CC	AA	AA	INTERGENIC			
SNP_75919_A_12844	NW_004515969.1	scaffold523	12844	GG	AA	AA	INTERGENIC			
SNP_75920_A_14235	NW_004515969.1	scaffold523	14235	AA	GG	GG	INTERGENIC			
SNP_75921_A_14290	NW_004515969.1	scaffold523	14290	CC	TT	TT	INTERGENIC			
SNP_75922_A_14300	NW_004515969.1	scaffold523	14300	CC	AA	AA	INTERGENIC			
SNP_75923_A_14539	NW_004515969.1	scaffold523	14539	TT	CC	CC	INTERGENIC			
SNP_75924_A_14560	NW_004515969.1	scaffold523	14560	AA	CC	CC	INTERGENIC			
SNP_75925_A_14604	NW_004515969.1	scaffold523	14604	TT	CC	CC	INTERGENIC			
SNP_75926_A_14606	NW_004515969.1	scaffold523	14606	AA	CC	CC	INTERGENIC			
SNP_75927_A_14753	NW_004515969.1	scaffold523	14753	GG	AA	AA	INTERGENIC			
SNP_75928_A_33153	NW_004515971.1	scaffold526	33153	GG	AA	AA	INTERGENIC			
SNP_75929_A_35637	NW_004515971.1	scaffold526	35637	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75930_A_45271	NW_004515971.1	scaffold526	45271	TT	CC	CC	INTERGENIC			
SNP_75931_A_45319	NW_004515971.1	scaffold526	45319	CC	TT	TT	INTERGENIC			
SNP_75932_A_46335	NW_004515971.1	scaffold526	46335	GG	CC	CC	INTERGENIC			
SNP_75933_A_58805	NW_004515971.1	scaffold526	58805	TT	CC	CC	INTERGENIC			
SNP_75934_A_58831	NW_004515971.1	scaffold526	58831	AA	TT	TT	INTERGENIC			
SNP_75935_A_58848	NW_004515971.1	scaffold526	58848	AA	GG	GG	INTERGENIC			
SNP_75936_A_58852	NW_004515971.1	scaffold526	58852	CC	GG	GG	INTERGENIC			
SNP_75937_A_58882	NW_004515971.1	scaffold526	58882	AA	GG	GG	INTERGENIC			
SNP_75938_A_58929	NW_004515971.1	scaffold526	58929	GG	AA	AA	INTERGENIC			
SNP_75939_A_58933	NW_004515971.1	scaffold526	58933	TT	CC	CC	INTERGENIC			
SNP_75940_A_58980	NW_004515971.1	scaffold526	58980	TT	AA	AA	INTERGENIC			
SNP_75941_A_58984	NW_004515971.1	scaffold526	58984	AA	GG	GG	INTERGENIC			
SNP_75942_A_59293	NW_004515971.1	scaffold526	59293	TT	CC	CC	INTERGENIC			
SNP_75943_A_59347	NW_004515971.1	scaffold526	59347	AA	CC	CC	INTERGENIC			
SNP_75944_A_59356	NW_004515971.1	scaffold526	59356	GG	AA	AA	INTERGENIC			
SNP_75945_A_69738	NW_004515971.1	scaffold526	69738	CC	AA	AA	INTERGENIC			
SNP_75946_A_70520	NW_004515971.1	scaffold526	70520	TT	AA	AA	INTERGENIC			
SNP_75947_A_71791	NW_004515971.1	scaffold526	71791	AA	TT	TT	INTERGENIC			
SNP_75949_A_76498	NW_004515971.1	scaffold526	76498	TT	CC	CC	INTERGENIC			
SNP_75950_A_79756	NW_004515971.1	scaffold526	79756	CC	TT	TT	INTERGENIC			
SNP_75951_A_84630	NW_004515971.1	scaffold526	84630	TT	AA	AA	INTERGENIC			
SNP_75952_A_90867	NW_004515971.1	scaffold526	90867	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75953_A_91115	NW_004515971.1	scaffold526	91115	GG	AA	AA	INTERGENIC			
SNP_75954_A_91154	NW_004515971.1	scaffold526	91154	AA	TT	TT	INTERGENIC			
SNP_75955_A_93003	NW_004515971.1	scaffold526	93003	AA	GG	GG	INTERGENIC			
SNP_75956_A_93008	NW_004515971.1	scaffold526	93008	CC	GG	GG	INTERGENIC			
SNP_75957_A_93011	NW_004515971.1	scaffold526	93011	AA	GG	GG	INTERGENIC			
SNP_75958_A_93302	NW_004515971.1	scaffold526	93302	AA	CC	CC	INTERGENIC			
SNP_75959_A_108022	NW_004515971.1	scaffold526	108022	AA	GG	GG	INTERGENIC			
SNP_75960_A_108456	NW_004515971.1	scaffold526	108456	TT	CC	CC	INTERGENIC			
SNP_75961_A_117995	NW_004515971.1	scaffold526	117995	GG	AA	AA	INTERGENIC			
SNP_75962_A_127737	NW_004515971.1	scaffold526	127737	AA	GG	GG	INTERGENIC			
SNP_75963_A_1267	NW_004515972.1	scaffold527	1267	AA	CC	CC	INTERGENIC			
SNP_75964_A_1744	NW_004515972.1	scaffold527	1744	TT	CC	CC	INTERGENIC			
SNP_75965_A_1850	NW_004515972.1	scaffold527	1850	CC	TT	TT	INTERGENIC			
SNP_75966_A_1984	NW_004515972.1	scaffold527	1984	CC	AA	AA	INTERGENIC			
SNP_75967_A_2041	NW_004515972.1	scaffold527	2041	GG	AA	AA	INTERGENIC			
SNP_75968_A_2092	NW_004515972.1	scaffold527	2092	GG	AA	AA	INTERGENIC			
SNP_75969_A_2104	NW_004515972.1	scaffold527	2104	TT	GG	GG	INTERGENIC			
SNP_75970_A_2110	NW_004515972.1	scaffold527	2110	GG	AA	AA	INTERGENIC			
SNP_75971_A_2145	NW_004515972.1	scaffold527	2145	AA	GG	GG	INTERGENIC			
SNP_75972_A_2520	NW_004515972.1	scaffold527	2520	TT	GG	GG	INTERGENIC			
SNP_75973_A_2549	NW_004515972.1	scaffold527	2549	TT	AA	AA	INTERGENIC			
SNP_75974_A_2554	NW_004515972.1	scaffold527	2554	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75975_A_2688	NW_004515972.1	scaffold527	2688	GG	AA	AA	INTERGENIC			
SNP_75976_A_2705	NW_004515972.1	scaffold527	2705	CC	TT	TT	INTERGENIC			
SNP_75977_A_2781	NW_004515972.1	scaffold527	2781	GG	TT	TT	INTERGENIC			
SNP_75978_A_2804	NW_004515972.1	scaffold527	2804	AA	CC	CC	INTERGENIC			
SNP_75979_A_2869	NW_004515972.1	scaffold527	2869	TT	CC	CC	INTERGENIC			
SNP_75980_A_2966	NW_004515972.1	scaffold527	2966	AA	CC	CC	INTERGENIC			
SNP_75981_A_3166	NW_004515972.1	scaffold527	3166	CC	AA	AA	INTERGENIC			
SNP_75982_A_3182	NW_004515972.1	scaffold527	3182	CC	TT	TT	INTERGENIC			
SNP_75984_A_3225	NW_004515972.1	scaffold527	3225	AA	GG	GG	INTERGENIC			
SNP_75985_A_3237	NW_004515972.1	scaffold527	3237	AA	GG	GG	INTERGENIC			
SNP_75986_A_3356	NW_004515972.1	scaffold527	3356	CC	TT	TT	INTERGENIC			
SNP_75987_A_3619	NW_004515972.1	scaffold527	3619	CC	TT	TT	INTERGENIC			
SNP_75988_A_3621	NW_004515972.1	scaffold527	3621	TT	CC	CC	INTERGENIC			
SNP_75989_A_3720	NW_004515972.1	scaffold527	3720	CC	TT	TT	INTERGENIC			
SNP_75990_A_3816	NW_004515972.1	scaffold527	3816	TT	CC	CC	INTERGENIC			
SNP_75991_A_3848	NW_004515972.1	scaffold527	3848	GG	AA	AA	INTERGENIC			
SNP_75992_A_3976	NW_004515972.1	scaffold527	3976	CC	TT	TT	INTERGENIC			
SNP_75993_A_4016	NW_004515972.1	scaffold527	4016	AA	CC	CC	INTERGENIC			
SNP_75994_A_4077	NW_004515972.1	scaffold527	4077	AA	TT	TT	INTERGENIC			
SNP_75995_A_4103	NW_004515972.1	scaffold527	4103	AA	CC	CC	INTERGENIC			
SNP_75996_A_4121	NW_004515972.1	scaffold527	4121	TT	CC	CC	INTERGENIC			
SNP_75997_A_4185	NW_004515972.1	scaffold527	4185	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_75998_A_4200	NW_004515972.1	scaffold527	4200	CC	TT	TT	INTERGENIC			
SNP_75999_A_4224	NW_004515972.1	scaffold527	4224	TT	GG	GG	INTERGENIC			
SNP_76000_A_4340	NW_004515972.1	scaffold527	4340	AA	CC	CC	INTERGENIC			
SNP_76001_A_4364	NW_004515972.1	scaffold527	4364	CC	TT	TT	INTERGENIC			
SNP_76002_A_4540	NW_004515972.1	scaffold527	4540	AA	TT	TT	INTERGENIC			
SNP_76003_A_4557	NW_004515972.1	scaffold527	4557	GG	CC	CC	INTERGENIC			
SNP_76004_A_4569	NW_004515972.1	scaffold527	4569	TT	CC	CC	INTERGENIC			
SNP_76005_A_4717	NW_004515972.1	scaffold527	4717	TT	GG	GG	INTERGENIC			
SNP_76006_A_4755	NW_004515972.1	scaffold527	4755	AA	GG	GG	INTERGENIC			
SNP_76007_A_4772	NW_004515972.1	scaffold527	4772	TT	AA	AA	INTERGENIC			
SNP_76009_A_4819	NW_004515972.1	scaffold527	4819	GG	AA	AA	INTERGENIC			
SNP_76010_A_4835	NW_004515972.1	scaffold527	4835	AA	GG	GG	INTERGENIC			
SNP_76011_A_4865	NW_004515972.1	scaffold527	4865	AA	TT	TT	INTERGENIC			
SNP_76012_A_4866	NW_004515972.1	scaffold527	4866	GG	TT	TT	INTERGENIC			
SNP_76013_A_4952	NW_004515972.1	scaffold527	4952	GG	TT	TT	INTERGENIC			
SNP_76014_A_5068	NW_004515972.1	scaffold527	5068	TT	AA	AA	INTERGENIC			
SNP_76016_A_67796	NW_004515972.1	scaffold527	67796	AA	GG	GG	INTERGENIC			
SNP_76017_A_82442	NW_004515972.1	scaffold527	82442	TT	CC	CC	INTERGENIC			
SNP_76019_A_119835	NW_004515972.1	scaffold527	119835	CC	TT	TT	INTERGENIC			
SNP_76020_A_120441	NW_004515972.1	scaffold527	120441	AA	GG	GG	INTERGENIC			
SNP_76021_A_120469	NW_004515972.1	scaffold527	120469	AA	GG	GG	INTERGENIC			
SNP_76022_A_148655	NW_004515972.1	scaffold527	148655	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76023_A_148656	NW_004515972.1	scaffold527	148656	AA	GG	GG	INTERGENIC		
SNP_76024_A_148703	NW_004515972.1	scaffold527	148703	AA	GG	GG	INTERGENIC		
SNP_76025_A_148737	NW_004515972.1	scaffold527	148737	TT	CC	CC	INTERGENIC		
SNP_76026_A_148757	NW_004515972.1	scaffold527	148757	GG	TT	TT	INTERGENIC		
SNP_76027_A_148758	NW_004515972.1	scaffold527	148758	AA	TT	TT	INTERGENIC		
SNP_76028_A_148778	NW_004515972.1	scaffold527	148778	CC	AA	AA	INTERGENIC		
SNP_76029_A_29022	NW_004515973.1	scaffold528	29022	CC	GG	GG	URR	101492408	Unknown function
SNP_76030_A_34513	NW_004515973.1	scaffold528	34513	CC	TT	TT	INTERGENIC		
SNP_76031_A_46755	NW_004515973.1	scaffold528	46755	TT	AA	AA	INTERGENIC		
SNP_76032_A_66234	NW_004515973.1	scaffold528	66234	AA	TT	TT	INTERGENIC		
SNP_76034_A_104292	NW_004515973.1	scaffold528	104292	GG	TT	TT	INTERGENIC		
SNP_76035_A_126566	NW_004515973.1	scaffold528	126566	AA	CC	CC	DRR	101493071	Unknown function
SNP_76036_A_126710	NW_004515973.1	scaffold528	126710	TT	CC	CC	DRR	101493071	Unknown function
SNP_76037_A_126728	NW_004515973.1	scaffold528	126728	TT	CC	CC	DRR	101493071	Unknown function
SNP_76038_A_126954	NW_004515973.1	scaffold528	126954	CC	TT	TT	DRR	101493071	Unknown function
SNP_76039_A_126956	NW_004515973.1	scaffold528	126956	AA	GG	GG	DRR	101493071	Unknown function
SNP_76040_A_147798	NW_004515973.1	scaffold528	147798	CC	AA	AA	INTERGENIC		
SNP_76041_A_160496	NW_004515973.1	scaffold528	160496	CC	AA	AA	INTERGENIC		
SNP_76043_A_213872	NW_004515973.1	scaffold528	213872	AA	CC	CC	INTERGENIC		
SNP_76044_A_215644	NW_004515973.1	scaffold528	215644	CC	TT	TT	INTERGENIC		
SNP_76046_A_215715	NW_004515973.1	scaffold528	215715	CC	AA	AA	INTERGENIC		
SNP_76048_A_241454	NW_004515973.1	scaffold528	241454	GG	AA	AA	DRR	101410592	transfer RNA glutamic acid (anticodon CUC)

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76049_A_286270	NW_004515973.1	scaffold528	286270	GG	AA	AA	INTERGENIC			
SNP_76050_A_287984	NW_004515973.1	scaffold528	287984	TT	GG	GG	INTERGENIC			
SNP_76051_A_289591	NW_004515973.1	scaffold528	289591	TT	CC	CC	INTERGENIC			
SNP_76052_A_293929	NW_004515973.1	scaffold528	293929	GG	AA	AA	INTERGENIC			
SNP_76053_A_300203	NW_004515973.1	scaffold528	300203	TT	CC	CC	INTERGENIC			
SNP_76054_A_304874	NW_004515973.1	scaffold528	304874	TT	AA	AA	INTERGENIC			
SNP_76056_A_319849	NW_004515973.1	scaffold528	319849	AA	GG	GG	INTERGENIC			
SNP_76057_A_329725	NW_004515973.1	scaffold528	329725	TT	GG	GG	INTERGENIC			
SNP_76058_A_106	NW_004515974.1	scaffold530	106	GG	AA	AA	INTERGENIC			
SNP_76059_A_111	NW_004515974.1	scaffold530	111	TT	GG	GG	INTERGENIC			
SNP_76060_A_112	NW_004515974.1	scaffold530	112	AA	GG	GG	INTERGENIC			
SNP_76061_A_159	NW_004515974.1	scaffold530	159	CC	GG	GG	INTERGENIC			
SNP_76062_A_185	NW_004515974.1	scaffold530	185	CC	AA	AA	INTERGENIC			
SNP_76063_A_330	NW_004515974.1	scaffold530	330	CC	TT	TT	INTERGENIC			
SNP_76065_A_558	NW_004515974.1	scaffold530	558	TT	CC	CC	INTERGENIC			
SNP_76066_A_609	NW_004515974.1	scaffold530	609	CC	AA	AA	INTERGENIC			
SNP_76067_A_798	NW_004515974.1	scaffold530	798	TT	CC	CC	INTERGENIC			
SNP_76069_A_4222	NW_004515974.1	scaffold530	4222	CC	GG	GG	INTERGENIC			
SNP_76070_A_4229	NW_004515974.1	scaffold530	4229	TT	AA	AA	INTERGENIC			
SNP_76071_A_4232	NW_004515974.1	scaffold530	4232	AA	CC	CC	INTERGENIC			
SNP_76072_A_4245	NW_004515974.1	scaffold530	4245	GG	AA	AA	INTERGENIC			
SNP_76073_A_4252	NW_004515974.1	scaffold530	4252	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76074_A_4269	NW_004515974.1	scaffold530	4269	GG	CC	CC	INTERGENIC		
SNP_76075_A_4282	NW_004515974.1	scaffold530	4282	GG	AA	AA	INTERGENIC		
SNP_76076_A_4297	NW_004515974.1	scaffold530	4297	CC	GG	GG	INTERGENIC		
SNP_76077_A_4310	NW_004515974.1	scaffold530	4310	TT	AA	AA	INTERGENIC		
SNP_76079_A_10684	NW_004515974.1	scaffold530	10684	GG	AA	AA	DRR	101494884	Unknown function
SNP_76080_A_10773	NW_004515974.1	scaffold530	10773	AA	GG	GG	DRR	101494884	Unknown function
SNP_76081_A_10942	NW_004515974.1	scaffold530	10942	TT	CC	CC	DRR	101494884	Unknown function
SNP_76082_A_11063	NW_004515974.1	scaffold530	11063	AA	CC	CC	DRR	101494884	Unknown function
SNP_76083_A_11337	NW_004515974.1	scaffold530	11337	TT	CC	CC	INTRON	101494884	Unknown function
SNP_76084_A_11421	NW_004515974.1	scaffold530	11421	GG	AA	AA	INTRON	101494884	Unknown function
SNP_76085_A_24851	NW_004515974.1	scaffold530	24851	CC	AA	AA	INTRON	101494884	Unknown function
SNP_76086_A_25188	NW_004515974.1	scaffold530	25188	CC	AA	AA	INTRON	101494884	Unknown function
SNP_76087_A_44525	NW_004515974.1	scaffold530	44525	TT	AA	AA	INTERGENIC		
SNP_76088_A_87054	NW_004515974.1	scaffold530	87054	TT	GG	GG	INTERGENIC		
SNP_76089_A_4781	NW_004515975.1	scaffold531	4781	TT	CC	CC	INTERGENIC		
SNP_76090_A_4802	NW_004515975.1	scaffold531	4802	TT	CC	CC	INTERGENIC		
SNP_76091_A_4817	NW_004515975.1	scaffold531	4817	AA	CC	CC	INTERGENIC		
SNP_76092_A_4845	NW_004515975.1	scaffold531	4845	AA	CC	CC	INTERGENIC		
SNP_76093_A_4866	NW_004515975.1	scaffold531	4866	TT	AA	AA	INTERGENIC		
SNP_76094_A_4877	NW_004515975.1	scaffold531	4877	GG	AA	AA	INTERGENIC		
SNP_76095_A_4889	NW_004515975.1	scaffold531	4889	AA	TT	TT	INTERGENIC		
SNP_76096_A_4890	NW_004515975.1	scaffold531	4890	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76097_A_5578	NW_004515975.1	scaffold531	5578	AA	CC	CC	INTERGENIC		
SNP_76098_A_7631	NW_004515975.1	scaffold531	7631	AA	GG	GG	INTERGENIC		
SNP_76099_A_7632	NW_004515975.1	scaffold531	7632	AA	CC	CC	INTERGENIC		
SNP_76100_A_11868	NW_004515975.1	scaffold531	11868	AA	TT	TT	INTRON	101496510	protein trichome birefringence-like 19
SNP_76102_A_11926	NW_004515975.1	scaffold531	11926	CC	GG	GG	INTRON	101496510	protein trichome birefringence-like 19
SNP_76103_A_12206	NW_004515975.1	scaffold531	12206	AA	GG	GG	INTRON	101496510	protein trichome birefringence-like 19
SNP_76104_A_12295	NW_004515975.1	scaffold531	12295	CC	TT	TT	INTRON	101496510	protein trichome birefringence-like 19
SNP_76105_A_12601	NW_004515975.1	scaffold531	12601	GG	AA	AA	INTRON	101496510	protein trichome birefringence-like 19
SNP_76106_A_13207	NW_004515975.1	scaffold531	13207	CC	GG	GG	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76107_A_13369	NW_004515975.1	scaffold531	13369	TT	AA	AA	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76108_A_13379	NW_004515975.1	scaffold531	13379	TT	CC	CC	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76109_A_13442	NW_004515975.1	scaffold531	13442	TT	CC	CC	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76110_A_13508	NW_004515975.1	scaffold531	13508	GG	AA	AA	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76111_A_13532	NW_004515975.1	scaffold531	13532	CC	AA	AA	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76112_A_13579	NW_004515975.1	scaffold531	13579	GG	AA	AA	SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76113_A_13660	NW_004515975.1	scaffold531	13660	TT	GG	GG	SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76114_A_13664	NW_004515975.1	scaffold531	13664	TT	CC	CC	NON_SYNONYMOUS_CODING	101496510	protein trichome birefringence-like 19
SNP_76115_A_56353	NW_004515975.1	scaffold531	56353	AA	GG	GG	INTERGENIC		
SNP_76116_A_60075	NW_004515975.1	scaffold531	60075	AA	TT	TT	INTERGENIC		
SNP_76118_A_92638	NW_004515975.1	scaffold531	92638	TT	CC	CC	URR	101497834	uncharacterized LOC101497834
SNP_76119_A_97269	NW_004515975.1	scaffold531	97269	AA	TT	TT	INTERGENIC		
SNP_76120_A_97323	NW_004515975.1	scaffold531	97323	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76121_A_114700	NW_004515975.1	scaffold531	114700	GG	AA	AA	URR	101499351	endo-1,3(4)-beta-glucanase 2-like
SNP_76122_A_114731	NW_004515975.1	scaffold531	114731	GG	AA	AA	URR	101499351	endo-1,3(4)-beta-glucanase 2-like
SNP_76123_A_160242	NW_004515975.1	scaffold531	160242	TT	AA	AA	INTERGENIC		
SNP_76124_A_163981	NW_004515975.1	scaffold531	163981	CC	TT	TT	INTERGENIC		
SNP_76125_A_206309	NW_004515975.1	scaffold531	206309	CC	TT	TT	INTERGENIC		
SNP_76126_A_206319	NW_004515975.1	scaffold531	206319	AA	TT	TT	INTERGENIC		
SNP_76127_A_206338	NW_004515975.1	scaffold531	206338	CC	TT	TT	INTERGENIC		
SNP_76128_A_206342	NW_004515975.1	scaffold531	206342	TT	AA	AA	INTERGENIC		
SNP_76129_A_206362	NW_004515975.1	scaffold531	206362	AA	TT	TT	INTERGENIC		
SNP_76130_A_206369	NW_004515975.1	scaffold531	206369	TT	AA	AA	INTERGENIC		
SNP_76131_A_206454	NW_004515975.1	scaffold531	206454	AA	TT	TT	INTERGENIC		
SNP_76132_A_206611	NW_004515975.1	scaffold531	206611	CC	TT	TT	INTERGENIC		
SNP_76133_A_1798	NW_004515976.1	scaffold532	1798	TT	GG	GG	INTERGENIC		
SNP_76134_A_1829	NW_004515976.1	scaffold532	1829	TT	CC	CC	INTERGENIC		
SNP_76135_A_8904	NW_004515977.1	scaffold533	8904	AA	TT	TT	INTERGENIC		
SNP_76136_A_8919	NW_004515977.1	scaffold533	8919	CC	GG	GG	INTERGENIC		
SNP_76137_A_8927	NW_004515977.1	scaffold533	8927	CC	TT	TT	INTERGENIC		
SNP_76138_A_8953	NW_004515977.1	scaffold533	8953	AA	CC	CC	INTERGENIC		
SNP_76139_A_18552	NW_004515977.1	scaffold533	18552	GG	TT	TT	INTERGENIC		
SNP_76140_A_18553	NW_004515977.1	scaffold533	18553	TT	GG	GG	INTERGENIC		
SNP_76141_A_19634	NW_004515977.1	scaffold533	19634	AA	CC	CC	INTERGENIC		
SNP_76142_A_24201	NW_004515977.1	scaffold533	24201	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76143_A_13341	NW_004515978.1	scaffold535	13341	GG	AA	AA	INTERGENIC			
SNP_76144_A_49823	NW_004515978.1	scaffold535	49823	AA	CC	CC	INTERGENIC			
SNP_76145_A_68639	NW_004515978.1	scaffold535	68639	AA	CC	CC	INTERGENIC			
SNP_76146_A_68938	NW_004515978.1	scaffold535	68938	AA	GG	GG	INTERGENIC			
SNP_76147_A_68976	NW_004515978.1	scaffold535	68976	TT	GG	GG	INTERGENIC			
SNP_76148_A_69069	NW_004515978.1	scaffold535	69069	CC	AA	AA	INTERGENIC			
SNP_76149_A_69245	NW_004515978.1	scaffold535	69245	AA	GG	GG	INTERGENIC			
SNP_76150_A_69249	NW_004515978.1	scaffold535	69249	TT	GG	GG	INTERGENIC			
SNP_76151_A_69264	NW_004515978.1	scaffold535	69264	GG	AA	AA	INTERGENIC			
SNP_76152_A_77819	NW_004515978.1	scaffold535	77819	CC	TT	TT	INTERGENIC			
SNP_76154_A_125735	NW_004515978.1	scaffold535	125735	GG	AA	AA	INTERGENIC			
SNP_76155_A_135694	NW_004515978.1	scaffold535	135694	CC	TT	TT	INTERGENIC			
SNP_76156_A_170453	NW_004515978.1	scaffold535	170453	AA	CC	CC	INTERGENIC			
SNP_76157_A_13085	NW_004515980.1	scaffold537	13085	AA	CC	CC	INTERGENIC			
SNP_76158_A_31527	NW_004515980.1	scaffold537	31527	AA	GG	GG	INTERGENIC			
SNP_76159_A_31885	NW_004515980.1	scaffold537	31885	TT	CC	CC	INTERGENIC			
SNP_76160_A_35731	NW_004515980.1	scaffold537	35731	CC	GG	GG	INTERGENIC			
SNP_76161_A_58790	NW_004515980.1	scaffold537	58790	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814	
SNP_76162_A_58914	NW_004515980.1	scaffold537	58914	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814	
SNP_76163_A_78641	NW_004515980.1	scaffold537	78641	AA	CC	CC	INTRON	101509814	uncharacterized LOC101509814	
SNP_76164_A_78860	NW_004515980.1	scaffold537	78860	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814	
SNP_76165_A_78877	NW_004515980.1	scaffold537	78877	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76166_A_78882	NW_004515980.1	scaffold537	78882	TT	AA	AA	INTRON	101509814	uncharacterized LOC101509814
SNP_76167_A_78904	NW_004515980.1	scaffold537	78904	AA	CC	CC	INTRON	101509814	uncharacterized LOC101509814
SNP_76168_A_78942	NW_004515980.1	scaffold537	78942	TT	CC	CC	INTRON	101509814	uncharacterized LOC101509814
SNP_76169_A_78972	NW_004515980.1	scaffold537	78972	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76170_A_78985	NW_004515980.1	scaffold537	78985	AA	CC	CC	INTRON	101509814	uncharacterized LOC101509814
SNP_76171_A_78986	NW_004515980.1	scaffold537	78986	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76172_A_78988	NW_004515980.1	scaffold537	78988	AA	CC	CC	INTRON	101509814	uncharacterized LOC101509814
SNP_76173_A_78996	NW_004515980.1	scaffold537	78996	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76174_A_79002	NW_004515980.1	scaffold537	79002	TT	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76175_A_79006	NW_004515980.1	scaffold537	79006	TT	CC	CC	INTRON	101509814	uncharacterized LOC101509814
SNP_76176_A_82318	NW_004515980.1	scaffold537	82318	AA	TT	TT	INTRON	101509814	uncharacterized LOC101509814
SNP_76177_A_82430	NW_004515980.1	scaffold537	82430	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76178_A_84656	NW_004515980.1	scaffold537	84656	TT	AA	AA	INTRON	101509814	uncharacterized LOC101509814
SNP_76179_A_85150	NW_004515980.1	scaffold537	85150	TT	AA	AA	INTRON	101509814	uncharacterized LOC101509814
SNP_76180_A_85230	NW_004515980.1	scaffold537	85230	TT	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76181_A_85258	NW_004515980.1	scaffold537	85258	CC	TT	TT	INTRON	101509814	uncharacterized LOC101509814
SNP_76182_A_85259	NW_004515980.1	scaffold537	85259	GG	AA	AA	INTRON	101509814	uncharacterized LOC101509814
SNP_76183_A_85308	NW_004515980.1	scaffold537	85308	TT	AA	AA	INTRON	101509814	uncharacterized LOC101509814
SNP_76184_A_85349	NW_004515980.1	scaffold537	85349	AA	GG	GG	INTRON	101509814	uncharacterized LOC101509814
SNP_76185_A_85692	NW_004515980.1	scaffold537	85692	AA	TT	TT	INTRON	101509814	uncharacterized LOC101509814
SNP_76186_A_212606	NW_004515980.1	scaffold537	212606	TT	AA	AA	URR	101507266	expansin-B3
SNP_76187_A_231007	NW_004515980.1	scaffold537	231007	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76188_A_242889	NW_004515980.1	scaffold537	242889	CC	TT	TT	INTERGENIC		
SNP_76189_A_270410	NW_004515980.1	scaffold537	270410	CC	TT	TT	INTERGENIC		
SNP_76190_A_270642	NW_004515980.1	scaffold537	270642	CC	TT	TT	INTERGENIC		
SNP_76191_A_270800	NW_004515980.1	scaffold537	270800	AA	GG	GG	INTERGENIC		
SNP_76192_A_270925	NW_004515980.1	scaffold537	270925	CC	AA	AA	INTERGENIC		
SNP_76193_A_271014	NW_004515980.1	scaffold537	271014	TT	GG	GG	INTERGENIC		
SNP_76194_A_271058	NW_004515980.1	scaffold537	271058	AA	GG	GG	INTERGENIC		
SNP_76195_A_271190	NW_004515980.1	scaffold537	271190	GG	TT	TT	INTERGENIC		
SNP_76196_A_271207	NW_004515980.1	scaffold537	271207	CC	TT	TT	INTERGENIC		
SNP_76197_A_19441	NW_004515983.1	scaffold543	19441	TT	CC	CC	DRR	101511004	ABC transporter A family member 7-like
SNP_76198_A_19445	NW_004515983.1	scaffold543	19445	CC	TT	TT	DRR	101511004	ABC transporter A family member 7-like
SNP_76199_A_20525	NW_004515983.1	scaffold543	20525	CC	TT	TT	INTRON	101511004	ABC transporter A family member 7-like
SNP_76200_A_20526	NW_004515983.1	scaffold543	20526	TT	GG	GG	INTRON	101511004	ABC transporter A family member 7-like
SNP_76201_A_20569	NW_004515983.1	scaffold543	20569	AA	TT	TT	INTRON	101511004	ABC transporter A family member 7-like
SNP_76202_A_20577	NW_004515983.1	scaffold543	20577	AA	CC	CC	INTRON	101511004	ABC transporter A family member 7-like
SNP_76203_A_20914	NW_004515983.1	scaffold543	20914	AA	TT	TT	INTRON	101511004	ABC transporter A family member 7-like
SNP_76204_A_24081	NW_004515983.1	scaffold543	24081	AA	GG	GG	URR	101515412	Unknown function
SNP_76205_A_27278	NW_004515983.1	scaffold543	27278	CC	TT	TT	URR	101510682	uncharacterized LOC101510682
SNP_76206_A_31226	NW_004515983.1	scaffold543	31226	AA	GG	GG	INTERGENIC		
SNP_76207_A_31246	NW_004515983.1	scaffold543	31246	TT	GG	GG	INTERGENIC		
SNP_76208_A_31255	NW_004515983.1	scaffold543	31255	AA	TT	TT	INTERGENIC		
SNP_76209_A_31277	NW_004515983.1	scaffold543	31277	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76210_A_31658	NW_004515983.1	scaffold543	31658	AA	CC	CC	INTERGENIC			
SNP_76211_A_38570	NW_004515983.1	scaffold543	38570	TT	CC	CC	INTERGENIC			
SNP_76212_A_68869	NW_004515983.1	scaffold543	68869	AA	CC	CC	INTERGENIC			
SNP_76213_A_68884	NW_004515983.1	scaffold543	68884	TT	CC	CC	INTERGENIC			
SNP_76214_A_68922	NW_004515983.1	scaffold543	68922	TT	GG	GG	INTERGENIC			
SNP_76216_A_69038	NW_004515983.1	scaffold543	69038	AA	GG	GG	INTERGENIC			
SNP_76218_A_100788	NW_004515983.1	scaffold543	100788	AA	GG	GG	INTERGENIC			
SNP_76219_A_100806	NW_004515983.1	scaffold543	100806	CC	TT	TT	INTERGENIC			
SNP_76221_A_148365	NW_004515983.1	scaffold543	148365	TT	CC	CC	INTERGENIC			
SNP_76222_A_155217	NW_004515983.1	scaffold543	155217	GG	TT	TT	INTERGENIC			
SNP_76223_A_160045	NW_004515983.1	scaffold543	160045	AA	GG	GG	INTERGENIC			
SNP_76224_A_160418	NW_004515983.1	scaffold543	160418	CC	TT	TT	INTERGENIC			
SNP_76225_A_187397	NW_004515983.1	scaffold543	187397	CC	TT	TT	INTERGENIC			
SNP_76226_A_224124	NW_004515983.1	scaffold543	224124	TT	CC	CC	INTERGENIC			
SNP_76227_A_224163	NW_004515983.1	scaffold543	224163	TT	AA	AA	INTERGENIC			
SNP_76228_A_224450	NW_004515983.1	scaffold543	224450	TT	CC	CC	INTERGENIC			
SNP_76229_A_224484	NW_004515983.1	scaffold543	224484	AA	GG	GG	INTERGENIC			
SNP_76230_A_224497	NW_004515983.1	scaffold543	224497	CC	TT	TT	INTERGENIC			
SNP_76232_A_224541	NW_004515983.1	scaffold543	224541	AA	GG	GG	INTERGENIC			
SNP_76233_A_225582	NW_004515983.1	scaffold543	225582	GG	TT	TT	INTERGENIC			
SNP_76234_A_225626	NW_004515983.1	scaffold543	225626	CC	GG	GG	INTERGENIC			
SNP_76235_A_226069	NW_004515983.1	scaffold543	226069	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76236_A_226076	NW_004515983.1	scaffold543	226076	AA	GG	GG	INTERGENIC			
SNP_76237_A_226088	NW_004515983.1	scaffold543	226088	AA	TT	TT	INTERGENIC			
SNP_76238_A_226091	NW_004515983.1	scaffold543	226091	CC	AA	AA	INTERGENIC			
SNP_76239_A_226101	NW_004515983.1	scaffold543	226101	AA	GG	GG	INTERGENIC			
SNP_76240_A_226115	NW_004515983.1	scaffold543	226115	AA	TT	TT	INTERGENIC			
SNP_76241_A_226130	NW_004515983.1	scaffold543	226130	TT	AA	AA	INTERGENIC			
SNP_76242_A_226152	NW_004515983.1	scaffold543	226152	TT	GG	GG	INTERGENIC			
SNP_76243_A_226178	NW_004515983.1	scaffold543	226178	GG	AA	AA	INTERGENIC			
SNP_76244_A_226205	NW_004515983.1	scaffold543	226205	CC	TT	TT	INTERGENIC			
SNP_76245_A_226295	NW_004515983.1	scaffold543	226295	AA	GG	GG	INTERGENIC			
SNP_76246_A_226447	NW_004515983.1	scaffold543	226447	TT	CC	CC	INTERGENIC			
SNP_76247_A_226579	NW_004515983.1	scaffold543	226579	TT	CC	CC	INTERGENIC			
SNP_76248_A_226604	NW_004515983.1	scaffold543	226604	GG	AA	AA	INTERGENIC			
SNP_76249_A_229455	NW_004515983.1	scaffold543	229455	GG	AA	AA	INTERGENIC			
SNP_76251_A_229617	NW_004515983.1	scaffold543	229617	AA	CC	CC	INTERGENIC			
SNP_76252_A_229661	NW_004515983.1	scaffold543	229661	GG	AA	AA	INTERGENIC			
SNP_76253_A_229662	NW_004515983.1	scaffold543	229662	AA	TT	TT	INTERGENIC			
SNP_76254_A_229664	NW_004515983.1	scaffold543	229664	TT	CC	CC	INTERGENIC			
SNP_76255_A_229811	NW_004515983.1	scaffold543	229811	AA	TT	TT	INTERGENIC			
SNP_76256_A_242893	NW_004515983.1	scaffold543	242893	TT	GG	GG	INTERGENIC			
SNP_76257_A_242960	NW_004515983.1	scaffold543	242960	GG	AA	AA	INTERGENIC			
SNP_76258_A_243070	NW_004515983.1	scaffold543	243070	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76259_A_243140	NW_004515983.1	scaffold543	243140	TT	CC	CC	INTERGENIC		
SNP_76260_A_243189	NW_004515983.1	scaffold543	243189	AA	GG	GG	INTERGENIC		
SNP_76261_A_243275	NW_004515983.1	scaffold543	243275	TT	CC	CC	INTERGENIC		
SNP_76262_A_243313	NW_004515983.1	scaffold543	243313	AA	GG	GG	INTERGENIC		
SNP_76263_A_243402	NW_004515983.1	scaffold543	243402	GG	AA	AA	INTERGENIC		
SNP_76264_A_243414	NW_004515983.1	scaffold543	243414	TT	CC	CC	INTERGENIC		
SNP_76265_A_244019	NW_004515983.1	scaffold543	244019	GG	AA	AA	INTERGENIC		
SNP_76266_A_244034	NW_004515983.1	scaffold543	244034	GG	AA	AA	INTERGENIC		
SNP_76267_A_244046	NW_004515983.1	scaffold543	244046	GG	CC	CC	INTERGENIC		
SNP_76268_A_244047	NW_004515983.1	scaffold543	244047	TT	CC	CC	INTERGENIC		
SNP_76269_A_281969	NW_004515983.1	scaffold543	281969	GG	AA	AA	INTRON	101514763	uncharacterized LOC101514763
SNP_76270_A_299476	NW_004515983.1	scaffold543	299476	AA	GG	GG	INTERGENIC		
SNP_76271_A_3683	NW_004515984.1	scaffold544	3683	AA	CC	CC	INTERGENIC		
SNP_76272_A_6761	NW_004515984.1	scaffold544	6761	AA	CC	CC	INTERGENIC		
SNP_76273_A_7148	NW_004515984.1	scaffold544	7148	AA	CC	CC	INTERGENIC		
SNP_76274_A_7171	NW_004515984.1	scaffold544	7171	GG	CC	CC	INTERGENIC		
SNP_76275_A_7197	NW_004515984.1	scaffold544	7197	AA	GG	GG	INTERGENIC		
SNP_76276_A_8213	NW_004515984.1	scaffold544	8213	TT	GG	GG	INTERGENIC		
SNP_76277_A_11334	NW_004515984.1	scaffold544	11334	TT	AA	AA	INTERGENIC		
SNP_76278_A_14312	NW_004515984.1	scaffold544	14312	GG	AA	AA	INTERGENIC		
SNP_76279_A_14325	NW_004515984.1	scaffold544	14325	TT	CC	CC	INTERGENIC		
SNP_76280_A_16442	NW_004515984.1	scaffold544	16442	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76281_A_16453	NW_004515984.1	scaffold544	16453	TT	CC	CC	INTERGENIC			
SNP_76282_A_18432	NW_004515984.1	scaffold544	18432	GG	AA	AA	INTERGENIC			
SNP_76283_A_18778	NW_004515984.1	scaffold544	18778	CC	TT	TT	INTERGENIC			
SNP_76284_A_19226	NW_004515984.1	scaffold544	19226	GG	AA	AA	INTERGENIC			
SNP_76285_A_21995	NW_004515984.1	scaffold544	21995	TT	CC	CC	INTERGENIC			
SNP_76286_A_22703	NW_004515984.1	scaffold544	22703	AA	TT	TT	INTERGENIC			
SNP_76287_A_34725	NW_004515984.1	scaffold544	34725	CC	AA	AA	INTERGENIC			
SNP_76290_A_46973	NW_004515984.1	scaffold544	46973	AA	CC	CC	INTERGENIC			
SNP_76291_A_47175	NW_004515984.1	scaffold544	47175	GG	CC	CC	INTERGENIC			
SNP_76292_A_48452	NW_004515984.1	scaffold544	48452	AA	CC	CC	INTERGENIC			
SNP_76293_A_48540	NW_004515984.1	scaffold544	48540	TT	CC	CC	INTERGENIC			
SNP_76294_A_50724	NW_004515984.1	scaffold544	50724	TT	AA	AA	INTERGENIC			
SNP_76295_A_50913	NW_004515984.1	scaffold544	50913	CC	GG	GG	INTERGENIC			
SNP_76296_A_51277	NW_004515984.1	scaffold544	51277	TT	GG	GG	INTERGENIC			
SNP_76297_A_51302	NW_004515984.1	scaffold544	51302	AA	GG	GG	INTERGENIC			
SNP_76298_A_51359	NW_004515984.1	scaffold544	51359	TT	GG	GG	INTERGENIC			
SNP_76299_A_51395	NW_004515984.1	scaffold544	51395	GG	CC	CC	INTERGENIC			
SNP_76300_A_51456	NW_004515984.1	scaffold544	51456	CC	TT	TT	INTERGENIC			
SNP_76301_A_51732	NW_004515984.1	scaffold544	51732	GG	AA	AA	INTERGENIC			
SNP_76302_A_51782	NW_004515984.1	scaffold544	51782	GG	AA	AA	INTERGENIC			
SNP_76303_A_51878	NW_004515984.1	scaffold544	51878	AA	TT	TT	INTERGENIC			
SNP_76304_A_51973	NW_004515984.1	scaffold544	51973	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76305_A_52482	NW_004515984.1	scaffold544	52482	GG	CC	CC	INTERGENIC			
SNP_76306_A_52750	NW_004515984.1	scaffold544	52750	TT	GG	GG	INTERGENIC			
SNP_76307_A_52872	NW_004515984.1	scaffold544	52872	TT	CC	CC	INTERGENIC			
SNP_76308_A_52913	NW_004515984.1	scaffold544	52913	TT	CC	CC	INTERGENIC			
SNP_76309_A_53016	NW_004515984.1	scaffold544	53016	AA	GG	GG	INTERGENIC			
SNP_76310_A_53141	NW_004515984.1	scaffold544	53141	TT	GG	GG	INTERGENIC			
SNP_76311_A_53972	NW_004515984.1	scaffold544	53972	TT	CC	CC	INTERGENIC			
SNP_76312_A_55066	NW_004515984.1	scaffold544	55066	AA	TT	TT	INTERGENIC			
SNP_76313_A_55067	NW_004515984.1	scaffold544	55067	AA	TT	TT	INTERGENIC			
SNP_76314_A_56072	NW_004515984.1	scaffold544	56072	GG	AA	AA	INTERGENIC			
SNP_76315_A_56745	NW_004515984.1	scaffold544	56745	AA	CC	CC	INTERGENIC			
SNP_76316_A_56763	NW_004515984.1	scaffold544	56763	TT	CC	CC	INTERGENIC			
SNP_76317_A_56783	NW_004515984.1	scaffold544	56783	GG	TT	TT	INTERGENIC			
SNP_76318_A_56827	NW_004515984.1	scaffold544	56827	GG	AA	AA	INTERGENIC			
SNP_76319_A_56868	NW_004515984.1	scaffold544	56868	TT	AA	AA	INTERGENIC			
SNP_76320_A_57046	NW_004515984.1	scaffold544	57046	TT	AA	AA	INTERGENIC			
SNP_76321_A_57187	NW_004515984.1	scaffold544	57187	AA	CC	CC	INTERGENIC			
SNP_76322_A_58444	NW_004515984.1	scaffold544	58444	TT	CC	CC	INTERGENIC			
SNP_76323_A_58647	NW_004515984.1	scaffold544	58647	AA	TT	TT	INTERGENIC			
SNP_76324_A_58769	NW_004515984.1	scaffold544	58769	TT	AA	AA	INTERGENIC			
SNP_76326_A_59836	NW_004515984.1	scaffold544	59836	CC	GG	GG	INTERGENIC			
SNP_76327_A_59955	NW_004515984.1	scaffold544	59955	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76328_A_60152	NW_004515984.1	scaffold544	60152	GG	AA	AA	INTERGENIC			
SNP_76329_A_60264	NW_004515984.1	scaffold544	60264	AA	GG	GG	INTERGENIC			
SNP_76330_A_60497	NW_004515984.1	scaffold544	60497	GG	AA	AA	INTERGENIC			
SNP_76331_A_60568	NW_004515984.1	scaffold544	60568	AA	GG	GG	INTERGENIC			
SNP_76332_A_60651	NW_004515984.1	scaffold544	60651	TT	AA	AA	INTERGENIC			
SNP_76333_A_60703	NW_004515984.1	scaffold544	60703	AA	GG	GG	INTERGENIC			
SNP_76334_A_60913	NW_004515984.1	scaffold544	60913	CC	GG	GG	INTERGENIC			
SNP_76335_A_61062	NW_004515984.1	scaffold544	61062	AA	GG	GG	INTERGENIC			
SNP_76336_A_61167	NW_004515984.1	scaffold544	61167	GG	TT	TT	INTERGENIC			
SNP_76338_A_61403	NW_004515984.1	scaffold544	61403	AA	GG	GG	INTERGENIC			
SNP_76339_A_61422	NW_004515984.1	scaffold544	61422	AA	TT	TT	INTERGENIC			
SNP_76340_A_61558	NW_004515984.1	scaffold544	61558	TT	GG	GG	INTERGENIC			
SNP_76341_A_61611	NW_004515984.1	scaffold544	61611	AA	GG	GG	INTERGENIC			
SNP_76342_A_62600	NW_004515984.1	scaffold544	62600	AA	TT	TT	INTERGENIC			
SNP_76343_A_63057	NW_004515984.1	scaffold544	63057	TT	AA	AA	INTERGENIC			
SNP_76344_A_63062	NW_004515984.1	scaffold544	63062	TT	GG	GG	INTERGENIC			
SNP_76345_A_63114	NW_004515984.1	scaffold544	63114	AA	GG	GG	INTERGENIC			
SNP_76346_A_63186	NW_004515984.1	scaffold544	63186	AA	CC	CC	INTERGENIC			
SNP_76347_A_63190	NW_004515984.1	scaffold544	63190	AA	GG	GG	INTERGENIC			
SNP_76348_A_63331	NW_004515984.1	scaffold544	63331	AA	GG	GG	INTERGENIC			
SNP_76350_A_63397	NW_004515984.1	scaffold544	63397	AA	GG	GG	INTERGENIC			
SNP_76351_A_66564	NW_004515984.1	scaffold544	66564	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76352_A_66609	NW_004515984.1	scaffold544	66609	TT	AA	AA	INTERGENIC			
SNP_76354_A_67016	NW_004515984.1	scaffold544	67016	TT	AA	AA	INTERGENIC			
SNP_76355_A_67020	NW_004515984.1	scaffold544	67020	AA	GG	GG	INTERGENIC			
SNP_76356_A_67556	NW_004515984.1	scaffold544	67556	GG	CC	CC	INTERGENIC			
SNP_76357_A_67681	NW_004515984.1	scaffold544	67681	TT	GG	GG	INTERGENIC			
SNP_76358_A_67746	NW_004515984.1	scaffold544	67746	CC	AA	AA	INTERGENIC			
SNP_76359_A_67844	NW_004515984.1	scaffold544	67844	TT	CC	CC	INTERGENIC			
SNP_76360_A_67994	NW_004515984.1	scaffold544	67994	CC	AA	AA	INTERGENIC			
SNP_76361_A_69139	NW_004515984.1	scaffold544	69139	CC	GG	GG	INTERGENIC			
SNP_76362_A_69653	NW_004515984.1	scaffold544	69653	TT	AA	AA	INTERGENIC			
SNP_76363_A_69765	NW_004515984.1	scaffold544	69765	CC	TT	TT	INTERGENIC			
SNP_76364_A_70337	NW_004515984.1	scaffold544	70337	TT	AA	AA	INTERGENIC			
SNP_76366_A_70446	NW_004515984.1	scaffold544	70446	TT	AA	AA	INTERGENIC			
SNP_76367_A_70561	NW_004515984.1	scaffold544	70561	TT	GG	GG	INTERGENIC			
SNP_76368_A_70568	NW_004515984.1	scaffold544	70568	CC	AA	AA	INTERGENIC			
SNP_76369_A_70597	NW_004515984.1	scaffold544	70597	GG	CC	CC	INTERGENIC			
SNP_76370_A_76575	NW_004515984.1	scaffold544	76575	AA	TT	TT	INTERGENIC			
SNP_76371_A_76629	NW_004515984.1	scaffold544	76629	TT	GG	GG	INTERGENIC			
SNP_76372_A_76648	NW_004515984.1	scaffold544	76648	TT	GG	GG	INTERGENIC			
SNP_76373_A_76701	NW_004515984.1	scaffold544	76701	TT	CC	CC	INTERGENIC			
SNP_76374_A_77345	NW_004515984.1	scaffold544	77345	TT	AA	AA	INTERGENIC			
SNP_76375_A_81671	NW_004515984.1	scaffold544	81671	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76376_A_81732	NW_004515984.1	scaffold544	81732	TT	AA	AA	INTERGENIC			
SNP_76377_A_81749	NW_004515984.1	scaffold544	81749	TT	AA	AA	INTERGENIC			
SNP_76378_A_82305	NW_004515984.1	scaffold544	82305	CC	AA	AA	INTERGENIC			
SNP_76380_A_82836	NW_004515984.1	scaffold544	82836	TT	CC	CC	INTERGENIC			
SNP_76381_A_84031	NW_004515984.1	scaffold544	84031	AA	GG	GG	INTERGENIC			
SNP_76382_A_84138	NW_004515984.1	scaffold544	84138	CC	TT	TT	INTERGENIC			
SNP_76383_A_84622	NW_004515984.1	scaffold544	84622	GG	AA	AA	INTERGENIC			
SNP_76384_A_84815	NW_004515984.1	scaffold544	84815	GG	AA	AA	INTERGENIC			
SNP_76385_A_85326	NW_004515984.1	scaffold544	85326	GG	AA	AA	INTERGENIC			
SNP_76386_A_85538	NW_004515984.1	scaffold544	85538	AA	CC	CC	INTERGENIC			
SNP_76387_A_86007	NW_004515984.1	scaffold544	86007	GG	CC	CC	INTERGENIC			
SNP_76388_A_86498	NW_004515984.1	scaffold544	86498	TT	GG	GG	INTERGENIC			
SNP_76389_A_86816	NW_004515984.1	scaffold544	86816	TT	CC	CC	INTERGENIC			
SNP_76390_A_87367	NW_004515984.1	scaffold544	87367	TT	CC	CC	INTERGENIC			
SNP_76391_A_88599	NW_004515984.1	scaffold544	88599	AA	GG	GG	INTERGENIC			
SNP_76392_A_91036	NW_004515984.1	scaffold544	91036	AA	GG	GG	INTERGENIC			
SNP_76393_A_91039	NW_004515984.1	scaffold544	91039	AA	CC	CC	INTERGENIC			
SNP_76394_A_91042	NW_004515984.1	scaffold544	91042	CC	TT	TT	INTERGENIC			
SNP_76395_A_91048	NW_004515984.1	scaffold544	91048	AA	GG	GG	INTERGENIC			
SNP_76396_A_96372	NW_004515984.1	scaffold544	96372	AA	TT	TT	INTERGENIC			
SNP_76397_A_96496	NW_004515984.1	scaffold544	96496	TT	GG	GG	INTERGENIC			
SNP_76398_A_96504	NW_004515984.1	scaffold544	96504	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76399_A_96507	NW_004515984.1	scaffold544	96507	TT	AA	AA	INTERGENIC			
SNP_76400_A_96568	NW_004515984.1	scaffold544	96568	TT	AA	AA	INTERGENIC			
SNP_76401_A_96570	NW_004515984.1	scaffold544	96570	CC	AA	AA	INTERGENIC			
SNP_76402_A_99885	NW_004515984.1	scaffold544	99885	TT	AA	AA	INTERGENIC			
SNP_76403_A_101153	NW_004515984.1	scaffold544	101153	CC	TT	TT	INTERGENIC			
SNP_76404_A_104921	NW_004515984.1	scaffold544	104921	AA	GG	GG	INTERGENIC			
SNP_76406_A_105687	NW_004515984.1	scaffold544	105687	GG	AA	AA	INTERGENIC			
SNP_76407_A_105804	NW_004515984.1	scaffold544	105804	AA	CC	CC	INTERGENIC			
SNP_76408_A_107005	NW_004515984.1	scaffold544	107005	AA	GG	GG	INTERGENIC			
SNP_76409_A_111076	NW_004515984.1	scaffold544	111076	CC	AA	AA	INTERGENIC			
SNP_76410_A_123360	NW_004515984.1	scaffold544	123360	GG	AA	AA	INTERGENIC			
SNP_76411_A_123479	NW_004515984.1	scaffold544	123479	TT	AA	AA	INTERGENIC			
SNP_76412_A_123502	NW_004515984.1	scaffold544	123502	AA	CC	CC	INTERGENIC			
SNP_76413_A_123510	NW_004515984.1	scaffold544	123510	GG	AA	AA	INTERGENIC			
SNP_76414_A_123519	NW_004515984.1	scaffold544	123519	AA	CC	CC	INTERGENIC			
SNP_76415_A_123991	NW_004515984.1	scaffold544	123991	CC	TT	TT	INTERGENIC			
SNP_76416_A_124217	NW_004515984.1	scaffold544	124217	AA	GG	GG	INTERGENIC			
SNP_76417_A_124218	NW_004515984.1	scaffold544	124218	AA	CC	CC	INTERGENIC			
SNP_76418_A_124231	NW_004515984.1	scaffold544	124231	AA	TT	TT	INTERGENIC			
SNP_76420_A_125394	NW_004515984.1	scaffold544	125394	CC	TT	TT	INTERGENIC			
SNP_76421_A_125589	NW_004515984.1	scaffold544	125589	AA	GG	GG	INTERGENIC			
SNP_76422_A_125591	NW_004515984.1	scaffold544	125591	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76423_A_125593	NW_004515984.1	scaffold544	125593	AA	GG	GG	INTERGENIC			
SNP_76424_A_125594	NW_004515984.1	scaffold544	125594	TT	GG	GG	INTERGENIC			
SNP_76425_A_125609	NW_004515984.1	scaffold544	125609	TT	AA	AA	INTERGENIC			
SNP_76426_A_125694	NW_004515984.1	scaffold544	125694	AA	GG	GG	INTERGENIC			
SNP_76427_A_125707	NW_004515984.1	scaffold544	125707	GG	TT	TT	INTERGENIC			
SNP_76428_A_125923	NW_004515984.1	scaffold544	125923	AA	GG	GG	INTERGENIC			
SNP_76429_A_125978	NW_004515984.1	scaffold544	125978	AA	GG	GG	INTERGENIC			
SNP_76430_A_126028	NW_004515984.1	scaffold544	126028	GG	AA	AA	INTERGENIC			
SNP_76431_A_126032	NW_004515984.1	scaffold544	126032	GG	TT	TT	INTERGENIC			
SNP_76432_A_126139	NW_004515984.1	scaffold544	126139	GG	AA	AA	INTERGENIC			
SNP_76433_A_126197	NW_004515984.1	scaffold544	126197	CC	TT	TT	INTERGENIC			
SNP_76434_A_126207	NW_004515984.1	scaffold544	126207	GG	CC	CC	INTERGENIC			
SNP_76435_A_126373	NW_004515984.1	scaffold544	126373	CC	GG	GG	INTERGENIC			
SNP_76436_A_128362	NW_004515984.1	scaffold544	128362	TT	AA	AA	INTERGENIC			
SNP_76437_A_130552	NW_004515984.1	scaffold544	130552	TT	AA	AA	INTERGENIC			
SNP_76438_A_130684	NW_004515984.1	scaffold544	130684	CC	TT	TT	INTERGENIC			
SNP_76439_A_131412	NW_004515984.1	scaffold544	131412	GG	AA	AA	INTERGENIC			
SNP_76440_A_132856	NW_004515984.1	scaffold544	132856	AA	CC	CC	INTERGENIC			
SNP_76441_A_132953	NW_004515984.1	scaffold544	132953	GG	CC	CC	INTERGENIC			
SNP_76442_A_134609	NW_004515984.1	scaffold544	134609	AA	CC	CC	INTERGENIC			
SNP_76445_A_146173	NW_004515984.1	scaffold544	146173	AA	GG	GG	INTERGENIC			
SNP_76447_A_167471	NW_004515984.1	scaffold544	167471	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76448_A_167853	NW_004515984.1	scaffold544	167853	GG	AA	AA	INTERGENIC			
SNP_76449_A_167855	NW_004515984.1	scaffold544	167855	CC	AA	AA	INTERGENIC			
SNP_76450_A_168192	NW_004515984.1	scaffold544	168192	AA	GG	GG	INTERGENIC			
SNP_76451_A_169856	NW_004515984.1	scaffold544	169856	CC	TT	TT	INTERGENIC			
SNP_76452_A_176787	NW_004515984.1	scaffold544	176787	CC	TT	TT	INTERGENIC			
SNP_76453_A_176879	NW_004515984.1	scaffold544	176879	GG	CC	CC	INTERGENIC			
SNP_76454_A_177055	NW_004515984.1	scaffold544	177055	AA	GG	GG	INTERGENIC			
SNP_76455_A_177090	NW_004515984.1	scaffold544	177090	AA	TT	TT	INTERGENIC			
SNP_76456_A_180869	NW_004515984.1	scaffold544	180869	TT	CC	CC	INTERGENIC			
SNP_76457_A_180900	NW_004515984.1	scaffold544	180900	TT	CC	CC	INTERGENIC			
SNP_76458_A_180926	NW_004515984.1	scaffold544	180926	TT	AA	AA	INTERGENIC			
SNP_76459_A_181184	NW_004515984.1	scaffold544	181184	CC	AA	AA	INTERGENIC			
SNP_76460_A_181190	NW_004515984.1	scaffold544	181190	CC	TT	TT	INTERGENIC			
SNP_76461_A_181200	NW_004515984.1	scaffold544	181200	CC	GG	GG	INTERGENIC			
SNP_76462_A_181201	NW_004515984.1	scaffold544	181201	CC	TT	TT	INTERGENIC			
SNP_76463_A_181226	NW_004515984.1	scaffold544	181226	GG	AA	AA	INTERGENIC			
SNP_76464_A_181230	NW_004515984.1	scaffold544	181230	CC	TT	TT	INTERGENIC			
SNP_76465_A_181260	NW_004515984.1	scaffold544	181260	CC	TT	TT	INTERGENIC			
SNP_76466_A_181318	NW_004515984.1	scaffold544	181318	TT	CC	CC	INTERGENIC			
SNP_76467_A_181945	NW_004515984.1	scaffold544	181945	AA	TT	TT	INTERGENIC			
SNP_76468_A_182054	NW_004515984.1	scaffold544	182054	GG	AA	AA	INTERGENIC			
SNP_76469_A_182089	NW_004515984.1	scaffold544	182089	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76470_A_190171	NW_004515984.1	scaffold544	190171	TT	CC	CC	INTERGENIC			
SNP_76471_A_193582	NW_004515984.1	scaffold544	193582	AA	GG	GG	INTERGENIC			
SNP_76472_A_193786	NW_004515984.1	scaffold544	193786	GG	TT	TT	INTERGENIC			
SNP_76473_A_194879	NW_004515984.1	scaffold544	194879	AA	TT	TT	INTERGENIC			
SNP_76474_A_195078	NW_004515984.1	scaffold544	195078	AA	GG	GG	INTERGENIC			
SNP_76475_A_195351	NW_004515984.1	scaffold544	195351	CC	GG	GG	INTERGENIC			
SNP_76476_A_196248	NW_004515984.1	scaffold544	196248	AA	CC	CC	INTERGENIC			
SNP_76477_A_206229	NW_004515984.1	scaffold544	206229	AA	CC	CC	INTERGENIC			
SNP_76478_A_208890	NW_004515984.1	scaffold544	208890	CC	TT	TT	INTERGENIC			
SNP_76479_A_211161	NW_004515984.1	scaffold544	211161	AA	TT	TT	INTERGENIC			
SNP_76480_A_211638	NW_004515984.1	scaffold544	211638	GG	AA	AA	INTERGENIC			
SNP_76481_A_211896	NW_004515984.1	scaffold544	211896	GG	CC	CC	INTERGENIC			
SNP_76482_A_212349	NW_004515984.1	scaffold544	212349	AA	TT	TT	INTERGENIC			
SNP_76483_A_214295	NW_004515984.1	scaffold544	214295	GG	AA	AA	INTERGENIC			
SNP_76484_A_214311	NW_004515984.1	scaffold544	214311	CC	TT	TT	INTERGENIC			
SNP_76485_A_214535	NW_004515984.1	scaffold544	214535	AA	CC	CC	INTERGENIC			
SNP_76486_A_218230	NW_004515984.1	scaffold544	218230	AA	TT	TT	INTERGENIC			
SNP_76487_A_228197	NW_004515984.1	scaffold544	228197	CC	TT	TT	INTERGENIC			
SNP_76488_A_228598	NW_004515984.1	scaffold544	228598	AA	GG	GG	INTERGENIC			
SNP_76489_A_232338	NW_004515984.1	scaffold544	232338	CC	GG	GG	INTERGENIC			
SNP_76490_A_233916	NW_004515984.1	scaffold544	233916	AA	CC	CC	INTERGENIC			
SNP_76491_A_234094	NW_004515984.1	scaffold544	234094	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76492_A_236076	NW_004515984.1	scaffold544	236076	AA	GG	GG	INTERGENIC			
SNP_76493_A_236419	NW_004515984.1	scaffold544	236419	GG	TT	TT	INTERGENIC			
SNP_76495_A_238091	NW_004515984.1	scaffold544	238091	TT	CC	CC	INTERGENIC			
SNP_76496_A_238477	NW_004515984.1	scaffold544	238477	CC	TT	TT	INTERGENIC			
SNP_76497_A_238909	NW_004515984.1	scaffold544	238909	AA	CC	CC	INTERGENIC			
SNP_76498_A_239373	NW_004515984.1	scaffold544	239373	CC	GG	GG	INTERGENIC			
SNP_76499_A_244178	NW_004515984.1	scaffold544	244178	GG	AA	AA	INTERGENIC			
SNP_76500_A_244412	NW_004515984.1	scaffold544	244412	TT	CC	CC	INTERGENIC			
SNP_76501_A_247025	NW_004515984.1	scaffold544	247025	CC	TT	TT	INTERGENIC			
SNP_76502_A_248219	NW_004515984.1	scaffold544	248219	CC	TT	TT	INTERGENIC			
SNP_76503_A_248484	NW_004515984.1	scaffold544	248484	TT	AA	AA	INTERGENIC			
SNP_76504_A_248542	NW_004515984.1	scaffold544	248542	GG	AA	AA	INTERGENIC			
SNP_76505_A_248555	NW_004515984.1	scaffold544	248555	TT	CC	CC	INTERGENIC			
SNP_76506_A_248741	NW_004515984.1	scaffold544	248741	GG	AA	AA	INTERGENIC			
SNP_76507_A_258837	NW_004515984.1	scaffold544	258837	AA	GG	GG	INTERGENIC			
SNP_76508_A_261847	NW_004515984.1	scaffold544	261847	CC	TT	TT	INTERGENIC			
SNP_76509_A_265141	NW_004515984.1	scaffold544	265141	TT	CC	CC	INTRON	101489171	Unknown function	
SNP_76510_A_265494	NW_004515984.1	scaffold544	265494	GG	AA	AA	URR	101489171	Unknown function	
SNP_76511_A_269320	NW_004515984.1	scaffold544	269320	AA	GG	GG	INTERGENIC			
SNP_76512_A_278139	NW_004515984.1	scaffold544	278139	GG	AA	AA	INTERGENIC			
SNP_76513_A_278349	NW_004515984.1	scaffold544	278349	TT	CC	CC	INTERGENIC			
SNP_76514_A_278630	NW_004515984.1	scaffold544	278630	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76515_A_286710	NW_004515984.1	scaffold544	286710	GG	TT	TT	INTERGENIC			
SNP_76516_A_286833	NW_004515984.1	scaffold544	286833	TT	CC	CC	INTERGENIC			
SNP_76517_A_287378	NW_004515984.1	scaffold544	287378	GG	TT	TT	INTERGENIC			
SNP_76518_A_287417	NW_004515984.1	scaffold544	287417	GG	CC	CC	INTERGENIC			
SNP_76519_A_287425	NW_004515984.1	scaffold544	287425	CC	TT	TT	INTERGENIC			
SNP_76520_A_287527	NW_004515984.1	scaffold544	287527	CC	AA	AA	INTERGENIC			
SNP_76521_A_313058	NW_004515984.1	scaffold544	313058	AA	TT	TT	INTERGENIC			
SNP_76522_A_315557	NW_004515984.1	scaffold544	315557	TT	GG	GG	INTERGENIC			
SNP_76523_A_315997	NW_004515984.1	scaffold544	315997	TT	CC	CC	INTERGENIC			
SNP_76524_A_316512	NW_004515984.1	scaffold544	316512	CC	AA	AA	INTERGENIC			
SNP_76525_A_318317	NW_004515984.1	scaffold544	318317	GG	AA	AA	INTERGENIC			
SNP_76526_A_318338	NW_004515984.1	scaffold544	318338	AA	CC	CC	INTERGENIC			
SNP_76527_A_318832	NW_004515984.1	scaffold544	318832	AA	CC	CC	INTERGENIC			
SNP_76528_A_322569	NW_004515984.1	scaffold544	322569	GG	CC	CC	INTERGENIC			
SNP_76529_A_327192	NW_004515984.1	scaffold544	327192	CC	TT	TT	INTERGENIC			
SNP_76530_A_327790	NW_004515984.1	scaffold544	327790	TT	CC	CC	INTERGENIC			
SNP_76531_A_329179	NW_004515984.1	scaffold544	329179	GG	TT	TT	INTERGENIC			
SNP_76532_A_330797	NW_004515984.1	scaffold544	330797	AA	GG	GG	INTERGENIC			
SNP_76533_A_333106	NW_004515984.1	scaffold544	333106	TT	GG	GG	INTERGENIC			
SNP_76534_A_338581	NW_004515984.1	scaffold544	338581	CC	GG	GG	INTERGENIC			
SNP_76536_A_11131	NW_004515985.1	scaffold545	11131	CC	AA	AA	INTERGENIC			
SNP_76537_A_11191	NW_004515985.1	scaffold545	11191	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76538_A_11444	NW_004515985.1	scaffold545	11444	GG	AA	AA	INTERGENIC		
SNP_76539_A_11453	NW_004515985.1	scaffold545	11453	TT	CC	CC	INTERGENIC		
SNP_76540_A_11462	NW_004515985.1	scaffold545	11462	AA	GG	GG	INTERGENIC		
SNP_76541_A_11485	NW_004515985.1	scaffold545	11485	AA	CC	CC	INTERGENIC		
SNP_76542_A_11549	NW_004515985.1	scaffold545	11549	TT	CC	CC	INTERGENIC		
SNP_76543_A_11552	NW_004515985.1	scaffold545	11552	CC	TT	TT	INTERGENIC		
SNP_76544_A_11568	NW_004515985.1	scaffold545	11568	AA	GG	GG	INTERGENIC		
SNP_76545_A_11732	NW_004515985.1	scaffold545	11732	TT	GG	GG	INTERGENIC		
SNP_76546_A_12395	NW_004515985.1	scaffold545	12395	AA	GG	GG	INTERGENIC		
SNP_76547_A_12944	NW_004515985.1	scaffold545	12944	TT	CC	CC	INTERGENIC		
SNP_76548_A_56244	NW_004515985.1	scaffold545	56244	AA	GG	GG	DRR	101493934	Werner Syndrome-like exonuclease
SNP_76549_A_56248	NW_004515985.1	scaffold545	56248	TT	CC	CC	DRR	101493934	Werner Syndrome-like exonuclease
SNP_76551_A_155804	NW_004515985.1	scaffold545	155804	TT	CC	CC	INTERGENIC		
SNP_76552_A_171753	NW_004515985.1	scaffold545	171753	GG	AA	AA	INTERGENIC		
SNP_76553_A_183747	NW_004515985.1	scaffold545	183747	GG	TT	TT	INTERGENIC		
SNP_76554_A_183768	NW_004515985.1	scaffold545	183768	TT	CC	CC	INTERGENIC		
SNP_76555_A_183948	NW_004515985.1	scaffold545	183948	CC	AA	AA	INTERGENIC		
SNP_76556_A_183954	NW_004515985.1	scaffold545	183954	CC	TT	TT	INTERGENIC		
SNP_76558_A_192272	NW_004515985.1	scaffold545	192272	AA	GG	GG	INTERGENIC		
SNP_76559_A_192709	NW_004515985.1	scaffold545	192709	AA	TT	TT	INTERGENIC		
SNP_76561_A_197496	NW_004515985.1	scaffold545	197496	AA	TT	TT	INTERGENIC		
SNP_76562_A_207866	NW_004515985.1	scaffold545	207866	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76563_A_256956	NW_004515985.1	scaffold545	256956	AA	CC	CC	SYNONYMOUS_CODING	101495529	alpha-amylase/subtilisin inhibitor-like
SNP_76564_A_279466	NW_004515985.1	scaffold545	279466	CC	TT	TT	INTERGENIC		
SNP_76565_A_279505	NW_004515985.1	scaffold545	279505	AA	GG	GG	INTERGENIC		
SNP_76566_A_279530	NW_004515985.1	scaffold545	279530	GG	AA	AA	INTERGENIC		
SNP_76567_A_279532	NW_004515985.1	scaffold545	279532	GG	AA	AA	INTERGENIC		
SNP_76568_A_279739	NW_004515985.1	scaffold545	279739	TT	CC	CC	INTERGENIC		
SNP_76569_A_279759	NW_004515985.1	scaffold545	279759	TT	CC	CC	INTERGENIC		
SNP_76570_A_279775	NW_004515985.1	scaffold545	279775	AA	GG	GG	INTERGENIC		
SNP_76571_A_281233	NW_004515985.1	scaffold545	281233	GG	AA	AA	INTERGENIC		
SNP_76572_A_281268	NW_004515985.1	scaffold545	281268	TT	CC	CC	INTERGENIC		
SNP_76573_A_4557	NW_004515986.1	scaffold546	4557	GG	CC	CC	INTERGENIC		
SNP_76574_A_4713	NW_004515986.1	scaffold546	4713	TT	GG	GG	INTERGENIC		
SNP_76575_A_9427	NW_004515986.1	scaffold546	9427	AA	GG	GG	INTERGENIC		
SNP_76576_A_14288	NW_004515986.1	scaffold546	14288	AA	GG	GG	INTERGENIC		
SNP_76577_A_16856	NW_004515986.1	scaffold546	16856	TT	GG	GG	INTERGENIC		
SNP_76578_A_40614	NW_004515986.1	scaffold546	40614	AA	TT	TT	INTERGENIC		
SNP_76579_A_40623	NW_004515986.1	scaffold546	40623	TT	AA	AA	INTERGENIC		
SNP_76580_A_54156	NW_004515986.1	scaffold546	54156	CC	TT	TT	INTERGENIC		
SNP_76581_A_55229	NW_004515986.1	scaffold546	55229	TT	GG	GG	INTERGENIC		
SNP_76582_A_55273	NW_004515986.1	scaffold546	55273	CC	GG	GG	INTERGENIC		
SNP_76583_A_55274	NW_004515986.1	scaffold546	55274	CC	TT	TT	INTERGENIC		
SNP_76584_A_55304	NW_004515986.1	scaffold546	55304	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76585_A_55305	NW_004515986.1	scaffold546	55305	TT	AA	AA	INTERGENIC			
SNP_76586_A_55337	NW_004515986.1	scaffold546	55337	CC	GG	GG	INTERGENIC			
SNP_76587_A_55511	NW_004515986.1	scaffold546	55511	CC	GG	GG	INTERGENIC			
SNP_76588_A_55544	NW_004515986.1	scaffold546	55544	AA	TT	TT	INTERGENIC			
SNP_76589_A_55548	NW_004515986.1	scaffold546	55548	AA	TT	TT	INTERGENIC			
SNP_76590_A_55690	NW_004515986.1	scaffold546	55690	GG	TT	TT	INTERGENIC			
SNP_76591_A_55708	NW_004515986.1	scaffold546	55708	AA	TT	TT	INTERGENIC			
SNP_76592_A_55709	NW_004515986.1	scaffold546	55709	AA	CC	CC	INTERGENIC			
SNP_76593_A_55713	NW_004515986.1	scaffold546	55713	GG	CC	CC	INTERGENIC			
SNP_76594_A_55811	NW_004515986.1	scaffold546	55811	GG	AA	AA	INTERGENIC			
SNP_76595_A_55963	NW_004515986.1	scaffold546	55963	AA	CC	CC	INTERGENIC			
SNP_76596_A_55995	NW_004515986.1	scaffold546	55995	TT	AA	AA	INTERGENIC			
SNP_76597_A_55998	NW_004515986.1	scaffold546	55998	GG	TT	TT	INTERGENIC			
SNP_76598_A_67231	NW_004515986.1	scaffold546	67231	GG	AA	AA	INTERGENIC			
SNP_76599_A_67687	NW_004515986.1	scaffold546	67687	TT	AA	AA	INTERGENIC			
SNP_76600_A_67865	NW_004515986.1	scaffold546	67865	AA	TT	TT	INTERGENIC			
SNP_76601_A_67893	NW_004515986.1	scaffold546	67893	GG	TT	TT	INTERGENIC			
SNP_76603_A_72689	NW_004515986.1	scaffold546	72689	CC	TT	TT	INTERGENIC			
SNP_76604_A_72822	NW_004515986.1	scaffold546	72822	TT	CC	CC	INTERGENIC			
SNP_76605_A_72887	NW_004515986.1	scaffold546	72887	GG	CC	CC	INTERGENIC			
SNP_76606_A_73043	NW_004515986.1	scaffold546	73043	GG	AA	AA	INTERGENIC			
SNP_76607_A_73066	NW_004515986.1	scaffold546	73066	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76608_A_73067	NW_004515986.1	scaffold546	73067	GG	AA	AA	INTERGENIC			
SNP_76609_A_73453	NW_004515986.1	scaffold546	73453	TT	CC	CC	INTERGENIC			
SNP_76610_A_82176	NW_004515986.1	scaffold546	82176	TT	CC	CC	INTERGENIC			
SNP_76611_A_83210	NW_004515986.1	scaffold546	83210	AA	GG	GG	INTERGENIC			
SNP_76612_A_83211	NW_004515986.1	scaffold546	83211	TT	GG	GG	INTERGENIC			
SNP_76613_A_84482	NW_004515986.1	scaffold546	84482	GG	AA	AA	INTERGENIC			
SNP_76614_A_84535	NW_004515986.1	scaffold546	84535	TT	GG	GG	INTERGENIC			
SNP_76615_A_84779	NW_004515986.1	scaffold546	84779	CC	TT	TT	INTERGENIC			
SNP_76616_A_85053	NW_004515986.1	scaffold546	85053	GG	AA	AA	INTERGENIC			
SNP_76617_A_85101	NW_004515986.1	scaffold546	85101	AA	GG	GG	INTERGENIC			
SNP_76618_A_85864	NW_004515986.1	scaffold546	85864	GG	AA	AA	INTERGENIC			
SNP_76619_A_86210	NW_004515986.1	scaffold546	86210	TT	GG	GG	INTERGENIC			
SNP_76620_A_86491	NW_004515986.1	scaffold546	86491	TT	CC	CC	INTERGENIC			
SNP_76621_A_86602	NW_004515986.1	scaffold546	86602	TT	CC	CC	INTERGENIC			
SNP_76622_A_86604	NW_004515986.1	scaffold546	86604	GG	AA	AA	INTERGENIC			
SNP_76623_A_86658	NW_004515986.1	scaffold546	86658	AA	CC	CC	INTERGENIC			
SNP_76624_A_86789	NW_004515986.1	scaffold546	86789	CC	TT	TT	INTERGENIC			
SNP_76625_A_86869	NW_004515986.1	scaffold546	86869	TT	CC	CC	INTERGENIC			
SNP_76626_A_86999	NW_004515986.1	scaffold546	86999	AA	CC	CC	INTERGENIC			
SNP_76627_A_87161	NW_004515986.1	scaffold546	87161	TT	CC	CC	INTERGENIC			
SNP_76628_A_87184	NW_004515986.1	scaffold546	87184	AA	GG	GG	INTERGENIC			
SNP_76629_A_87186	NW_004515986.1	scaffold546	87186	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76630_A_87385	NW_004515986.1	scaffold546	87385	TT	CC	CC	INTERGENIC			
SNP_76631_A_1779	NW_004515987.1	scaffold547	1779	AA	GG	GG	INTERGENIC			
SNP_76632_A_1804	NW_004515987.1	scaffold547	1804	AA	GG	GG	INTERGENIC			
SNP_76633_A_1815	NW_004515987.1	scaffold547	1815	TT	CC	CC	INTERGENIC			
SNP_76634_A_1870	NW_004515987.1	scaffold547	1870	TT	CC	CC	INTERGENIC			
SNP_76635_A_1924	NW_004515987.1	scaffold547	1924	TT	CC	CC	INTERGENIC			
SNP_76636_A_1946	NW_004515987.1	scaffold547	1946	CC	TT	TT	INTERGENIC			
SNP_76637_A_2013	NW_004515987.1	scaffold547	2013	TT	AA	AA	INTERGENIC			
SNP_76638_A_2045	NW_004515987.1	scaffold547	2045	GG	AA	AA	INTERGENIC			
SNP_76639_A_2061	NW_004515987.1	scaffold547	2061	TT	CC	CC	INTERGENIC			
SNP_76640_A_6587	NW_004515987.1	scaffold547	6587	TT	GG	GG	INTERGENIC			
SNP_76641_A_7583	NW_004515987.1	scaffold547	7583	CC	TT	TT	INTERGENIC			
SNP_76642_A_11427	NW_004515987.1	scaffold547	11427	GG	AA	AA	INTERGENIC			
SNP_76643_A_11452	NW_004515987.1	scaffold547	11452	AA	GG	GG	INTERGENIC			
SNP_76644_A_11528	NW_004515987.1	scaffold547	11528	AA	GG	GG	INTERGENIC			
SNP_76645_A_12477	NW_004515987.1	scaffold547	12477	AA	CC	CC	INTERGENIC			
SNP_76646_A_12505	NW_004515987.1	scaffold547	12505	CC	TT	TT	INTERGENIC			
SNP_76647_A_12534	NW_004515987.1	scaffold547	12534	AA	TT	TT	INTERGENIC			
SNP_76648_A_12620	NW_004515987.1	scaffold547	12620	TT	GG	GG	INTERGENIC			
SNP_76649_A_12622	NW_004515987.1	scaffold547	12622	AA	TT	TT	INTERGENIC			
SNP_76650_A_12732	NW_004515987.1	scaffold547	12732	GG	CC	CC	INTERGENIC			
SNP_76651_A_12815	NW_004515987.1	scaffold547	12815	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76652_A_12865	NW_004515987.1	scaffold547	12865	AA	GG	GG	INTERGENIC			
SNP_76653_A_12879	NW_004515987.1	scaffold547	12879	AA	TT	TT	INTERGENIC			
SNP_76654_A_13615	NW_004515987.1	scaffold547	13615	AA	CC	CC	INTERGENIC			
SNP_76655_A_13659	NW_004515987.1	scaffold547	13659	TT	CC	CC	INTERGENIC			
SNP_76656_A_13690	NW_004515987.1	scaffold547	13690	TT	GG	GG	INTERGENIC			
SNP_76657_A_13968	NW_004515987.1	scaffold547	13968	TT	AA	AA	INTERGENIC			
SNP_76658_A_14138	NW_004515987.1	scaffold547	14138	GG	TT	TT	INTERGENIC			
SNP_76659_A_21037	NW_004515987.1	scaffold547	21037	TT	CC	CC	INTERGENIC			
SNP_76660_A_27404	NW_004515987.1	scaffold547	27404	CC	AA	AA	INTERGENIC			
SNP_76661_A_28173	NW_004515987.1	scaffold547	28173	TT	AA	AA	INTERGENIC			
SNP_76662_A_32186	NW_004515987.1	scaffold547	32186	GG	AA	AA	INTERGENIC			
SNP_76663_A_46651	NW_004515987.1	scaffold547	46651	TT	GG	GG	INTERGENIC			
SNP_76664_A_46658	NW_004515987.1	scaffold547	46658	AA	CC	CC	INTERGENIC			
SNP_76665_A_48867	NW_004515987.1	scaffold547	48867	CC	AA	AA	INTERGENIC			
SNP_76666_A_70611	NW_004515987.1	scaffold547	70611	CC	TT	TT	INTERGENIC			
SNP_76667_A_74383	NW_004515987.1	scaffold547	74383	TT	CC	CC	INTERGENIC			
SNP_76668_A_74791	NW_004515987.1	scaffold547	74791	CC	TT	TT	INTERGENIC			
SNP_76669_A_74799	NW_004515987.1	scaffold547	74799	TT	CC	CC	INTERGENIC			
SNP_76670_A_78160	NW_004515987.1	scaffold547	78160	CC	AA	AA	INTERGENIC			
SNP_76671_A_78188	NW_004515987.1	scaffold547	78188	TT	CC	CC	INTERGENIC			
SNP_76672_A_82183	NW_004515987.1	scaffold547	82183	CC	TT	TT	INTERGENIC			
SNP_76673_A_82187	NW_004515987.1	scaffold547	82187	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76674_A_82237	NW_004515987.1	scaffold547	82237	AA	TT	TT	INTERGENIC			
SNP_76675_A_82239	NW_004515987.1	scaffold547	82239	GG	TT	TT	INTERGENIC			
SNP_76676_A_82500	NW_004515987.1	scaffold547	82500	GG	AA	AA	INTERGENIC			
SNP_76677_A_83682	NW_004515987.1	scaffold547	83682	CC	TT	TT	INTERGENIC			
SNP_76678_A_84203	NW_004515987.1	scaffold547	84203	GG	AA	AA	INTERGENIC			
SNP_76679_A_84317	NW_004515987.1	scaffold547	84317	AA	GG	GG	INTERGENIC			
SNP_76680_A_95835	NW_004515987.1	scaffold547	95835	TT	CC	CC	INTERGENIC			
SNP_76681_A_95927	NW_004515987.1	scaffold547	95927	AA	GG	GG	INTERGENIC			
SNP_76682_A_96532	NW_004515987.1	scaffold547	96532	CC	GG	GG	INTERGENIC			
SNP_76683_A_96537	NW_004515987.1	scaffold547	96537	TT	CC	CC	INTERGENIC			
SNP_76684_A_96766	NW_004515987.1	scaffold547	96766	TT	CC	CC	INTERGENIC			
SNP_76685_A_96815	NW_004515987.1	scaffold547	96815	CC	TT	TT	INTERGENIC			
SNP_76686_A_96918	NW_004515987.1	scaffold547	96918	TT	AA	AA	INTERGENIC			
SNP_76687_A_96930	NW_004515987.1	scaffold547	96930	TT	AA	AA	INTERGENIC			
SNP_76688_A_96947	NW_004515987.1	scaffold547	96947	GG	AA	AA	INTERGENIC			
SNP_76689_A_96972	NW_004515987.1	scaffold547	96972	CC	TT	TT	INTERGENIC			
SNP_76691_A_97047	NW_004515987.1	scaffold547	97047	AA	GG	GG	INTERGENIC			
SNP_76692_A_97058	NW_004515987.1	scaffold547	97058	AA	CC	CC	INTERGENIC			
SNP_76693_A_97082	NW_004515987.1	scaffold547	97082	GG	AA	AA	INTERGENIC			
SNP_76694_A_97162	NW_004515987.1	scaffold547	97162	AA	TT	TT	INTERGENIC			
SNP_76695_A_97306	NW_004515987.1	scaffold547	97306	GG	AA	AA	INTERGENIC			
SNP_76696_A_97688	NW_004515987.1	scaffold547	97688	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76697_A_97720	NW_004515987.1	scaffold547	97720	CC	TT	TT	INTERGENIC			
SNP_76698_A_104532	NW_004515987.1	scaffold547	104532	TT	CC	CC	INTERGENIC			
SNP_76699_A_114788	NW_004515987.1	scaffold547	114788	TT	AA	AA	INTERGENIC			
SNP_76700_A_114803	NW_004515987.1	scaffold547	114803	AA	CC	CC	INTERGENIC			
SNP_76701_A_114834	NW_004515987.1	scaffold547	114834	AA	GG	GG	INTERGENIC			
SNP_76702_A_115023	NW_004515987.1	scaffold547	115023	TT	AA	AA	INTERGENIC			
SNP_76703_A_115111	NW_004515987.1	scaffold547	115111	GG	AA	AA	INTERGENIC			
SNP_76704_A_122556	NW_004515987.1	scaffold547	122556	TT	CC	CC	INTERGENIC			
SNP_76705_A_122587	NW_004515987.1	scaffold547	122587	AA	GG	GG	INTERGENIC			
SNP_76706_A_124881	NW_004515987.1	scaffold547	124881	TT	CC	CC	INTERGENIC			
SNP_76707_A_128726	NW_004515987.1	scaffold547	128726	AA	TT	TT	INTERGENIC			
SNP_76708_A_135975	NW_004515987.1	scaffold547	135975	CC	TT	TT	INTERGENIC			
SNP_76709_A_138196	NW_004515987.1	scaffold547	138196	TT	CC	CC	INTERGENIC			
SNP_76710_A_139112	NW_004515987.1	scaffold547	139112	CC	AA	AA	INTERGENIC			
SNP_76711_A_147817	NW_004515987.1	scaffold547	147817	GG	TT	TT	INTERGENIC			
SNP_76712_A_153334	NW_004515987.1	scaffold547	153334	AA	GG	GG	INTERGENIC			
SNP_76713_A_155875	NW_004515987.1	scaffold547	155875	TT	GG	GG	INTERGENIC			
SNP_76714_A_155882	NW_004515987.1	scaffold547	155882	TT	GG	GG	INTERGENIC			
SNP_76716_A_155947	NW_004515987.1	scaffold547	155947	AA	TT	TT	INTERGENIC			
SNP_76718_A_164668	NW_004515987.1	scaffold547	164668	TT	CC	CC	INTERGENIC			
SNP_76719_A_164680	NW_004515987.1	scaffold547	164680	AA	CC	CC	INTERGENIC			
SNP_76720_A_164682	NW_004515987.1	scaffold547	164682	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76721_A_164704	NW_004515987.1	scaffold547	164704	GG	AA	AA	INTERGENIC			
SNP_76722_A_165329	NW_004515987.1	scaffold547	165329	CC	TT	TT	INTERGENIC			
SNP_76723_A_168254	NW_004515987.1	scaffold547	168254	TT	CC	CC	INTERGENIC			
SNP_76724_A_168300	NW_004515987.1	scaffold547	168300	CC	TT	TT	INTERGENIC			
SNP_76725_A_185609	NW_004515987.1	scaffold547	185609	TT	AA	AA	INTERGENIC			
SNP_76726_A_9114	NW_004515988.1	scaffold548	9114	AA	GG	GG	INTERGENIC			
SNP_76727_A_73288	NW_004515988.1	scaffold548	73288	CC	TT	TT	INTERGENIC			
SNP_76728_A_114796	NW_004515988.1	scaffold548	114796	GG	CC	CC	INTERGENIC			
SNP_76730_A_157621	NW_004515988.1	scaffold548	157621	AA	GG	GG	INTERGENIC			
SNP_76731_A_157646	NW_004515988.1	scaffold548	157646	CC	TT	TT	INTERGENIC			
SNP_76732_A_160152	NW_004515988.1	scaffold548	160152	AA	TT	TT	INTERGENIC			
SNP_76733_A_169463	NW_004515988.1	scaffold548	169463	AA	GG	GG	INTERGENIC			
SNP_76734_A_169878	NW_004515988.1	scaffold548	169878	AA	CC	CC	INTERGENIC			
SNP_76735_A_169945	NW_004515988.1	scaffold548	169945	TT	AA	AA	INTERGENIC			
SNP_76736_A_169952	NW_004515988.1	scaffold548	169952	AA	GG	GG	INTERGENIC			
SNP_76737_A_169953	NW_004515988.1	scaffold548	169953	TT	CC	CC	INTERGENIC			
SNP_76738_A_169986	NW_004515988.1	scaffold548	169986	TT	CC	CC	INTERGENIC			
SNP_76739_A_177559	NW_004515988.1	scaffold548	177559	TT	CC	CC	INTERGENIC			
SNP_76740_A_196404	NW_004515988.1	scaffold548	196404	TT	CC	CC	INTERGENIC			
SNP_76741_A_199365	NW_004515988.1	scaffold548	199365	GG	TT	TT	INTERGENIC			
SNP_76743_A_212614	NW_004515988.1	scaffold548	212614	GG	AA	AA	INTERGENIC			
SNP_76744_A_213008	NW_004515988.1	scaffold548	213008	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76745_A_233092	NW_004515988.1	scaffold548	233092	GG	AA	AA	INTERGENIC		
SNP_76747_A_245406	NW_004515988.1	scaffold548	245406	TT	CC	CC	INTERGENIC		
SNP_76748_A_245409	NW_004515988.1	scaffold548	245409	TT	GG	GG	INTERGENIC		
SNP_76749_A_245543	NW_004515988.1	scaffold548	245543	AA	GG	GG	INTERGENIC		
SNP_76750_A_274265	NW_004515988.1	scaffold548	274265	GG	AA	AA	INTERGENIC		
SNP_76751_A_274281	NW_004515988.1	scaffold548	274281	GG	CC	CC	INTERGENIC		
SNP_76752_A_315424	NW_004515988.1	scaffold548	315424	AA	GG	GG	INTERGENIC		
SNP_76753_A_322703	NW_004515988.1	scaffold548	322703	TT	CC	CC	INTERGENIC		
SNP_76754_A_329814	NW_004515988.1	scaffold548	329814	AA	GG	GG	INTERGENIC		
SNP_76755_A_342795	NW_004515988.1	scaffold548	342795	GG	AA	AA	INTERGENIC		
SNP_76756_A_342802	NW_004515988.1	scaffold548	342802	AA	GG	GG	INTERGENIC		
SNP_76757_A_342829	NW_004515988.1	scaffold548	342829	CC	TT	TT	INTERGENIC		
SNP_76758_A_342830	NW_004515988.1	scaffold548	342830	AA	GG	GG	INTERGENIC		
SNP_76759_A_384003	NW_004515988.1	scaffold548	384003	CC	TT	TT	INTERGENIC		
SNP_76760_A_384072	NW_004515988.1	scaffold548	384072	TT	CC	CC	INTERGENIC		
SNP_76761_A_434996	NW_004515988.1	scaffold548	434996	AA	GG	GG	INTRON	101501468	uncharacterized LOC101501468
SNP_76762_A_435018	NW_004515988.1	scaffold548	435018	TT	CC	CC	INTRON	101501468	uncharacterized LOC101501468
SNP_76763_A_435025	NW_004515988.1	scaffold548	435025	CC	AA	AA	INTRON	101501468	uncharacterized LOC101501468
SNP_76764_A_480522	NW_004515988.1	scaffold548	480522	TT	CC	CC	INTERGENIC		
SNP_76765_A_480808	NW_004515988.1	scaffold548	480808	CC	GG	GG	INTERGENIC		
SNP_76766_A_480817	NW_004515988.1	scaffold548	480817	TT	GG	GG	INTERGENIC		
SNP_76767_A_480880	NW_004515988.1	scaffold548	480880	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76768_A_480890	NW_004515988.1	scaffold548	480890	AA	GG	GG	INTERGENIC			
SNP_76769_A_480937	NW_004515988.1	scaffold548	480937	CC	TT	TT	INTERGENIC			
SNP_76770_A_480967	NW_004515988.1	scaffold548	480967	TT	GG	GG	INTERGENIC			
SNP_76771_A_481366	NW_004515988.1	scaffold548	481366	TT	CC	CC	INTERGENIC			
SNP_76772_A_490585	NW_004515988.1	scaffold548	490585	TT	CC	CC	INTERGENIC			
SNP_76773_A_490604	NW_004515988.1	scaffold548	490604	CC	TT	TT	INTERGENIC			
SNP_76774_A_490610	NW_004515988.1	scaffold548	490610	AA	GG	GG	INTERGENIC			
SNP_76775_A_490615	NW_004515988.1	scaffold548	490615	AA	TT	TT	INTERGENIC			
SNP_76776_A_491177	NW_004515988.1	scaffold548	491177	CC	TT	TT	INTERGENIC			
SNP_76777_A_491250	NW_004515988.1	scaffold548	491250	TT	CC	CC	INTERGENIC			
SNP_76778_A_491515	NW_004515988.1	scaffold548	491515	CC	TT	TT	INTERGENIC			
SNP_76780_A_553169	NW_004515988.1	scaffold548	553169	TT	GG	GG	INTERGENIC			
SNP_76782_A_593474	NW_004515988.1	scaffold548	593474	CC	TT	TT	INTERGENIC			
SNP_76783_A_593542	NW_004515988.1	scaffold548	593542	TT	CC	CC	INTERGENIC			
SNP_76784_A_612109	NW_004515988.1	scaffold548	612109	GG	AA	AA	INTERGENIC			
SNP_76785_A_612116	NW_004515988.1	scaffold548	612116	AA	TT	TT	INTERGENIC			
SNP_76786_A_612118	NW_004515988.1	scaffold548	612118	CC	TT	TT	INTERGENIC			
SNP_76787_A_612469	NW_004515988.1	scaffold548	612469	AA	TT	TT	INTERGENIC			
SNP_76788_A_612477	NW_004515988.1	scaffold548	612477	GG	TT	TT	INTERGENIC			
SNP_76790_A_612730	NW_004515988.1	scaffold548	612730	AA	GG	GG	INTERGENIC			
SNP_76791_A_612732	NW_004515988.1	scaffold548	612732	CC	TT	TT	INTERGENIC			
SNP_76792_A_612858	NW_004515988.1	scaffold548	612858	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76793_A_616385	NW_004515988.1	scaffold548	616385	AA	GG	GG	INTERGENIC			
SNP_76794_A_616410	NW_004515988.1	scaffold548	616410	TT	CC	CC	INTERGENIC			
SNP_76795_A_616454	NW_004515988.1	scaffold548	616454	AA	GG	GG	INTERGENIC			
SNP_76796_A_616814	NW_004515988.1	scaffold548	616814	AA	GG	GG	INTERGENIC			
SNP_76797_A_616848	NW_004515988.1	scaffold548	616848	TT	GG	GG	INTERGENIC			
SNP_76798_A_616891	NW_004515988.1	scaffold548	616891	AA	GG	GG	INTERGENIC			
SNP_76799_A_616936	NW_004515988.1	scaffold548	616936	GG	AA	AA	INTERGENIC			
SNP_76800_A_635749	NW_004515988.1	scaffold548	635749	TT	CC	CC	INTERGENIC			
SNP_76801_A_683415	NW_004515988.1	scaffold548	683415	TT	CC	CC	INTERGENIC			
SNP_76802_A_683794	NW_004515988.1	scaffold548	683794	TT	CC	CC	INTERGENIC			
SNP_76804_A_685590	NW_004515988.1	scaffold548	685590	AA	GG	GG	INTERGENIC			
SNP_76806_A_38331	NW_004515989.1	scaffold549	38331	CC	AA	AA	INTERGENIC			
SNP_76807_A_38459	NW_004515989.1	scaffold549	38459	GG	TT	TT	INTERGENIC			
SNP_76808_A_38503	NW_004515989.1	scaffold549	38503	TT	AA	AA	INTERGENIC			
SNP_76809_A_38505	NW_004515989.1	scaffold549	38505	AA	TT	TT	INTERGENIC			
SNP_76810_A_38522	NW_004515989.1	scaffold549	38522	CC	TT	TT	INTERGENIC			
SNP_76812_A_41636	NW_004515989.1	scaffold549	41636	CC	GG	GG	INTERGENIC			
SNP_76814_A_44649	NW_004515989.1	scaffold549	44649	AA	GG	GG	INTERGENIC			
SNP_76815_A_45179	NW_004515989.1	scaffold549	45179	AA	GG	GG	INTERGENIC			
SNP_76816_A_51491	NW_004515989.1	scaffold549	51491	CC	TT	TT	INTERGENIC			
SNP_76817_A_51503	NW_004515989.1	scaffold549	51503	TT	GG	GG	INTERGENIC			
SNP_76818_A_51509	NW_004515989.1	scaffold549	51509	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76819_A_51740	NW_004515989.1	scaffold549	51740	TT	CC	CC	INTERGENIC			
SNP_76820_A_51770	NW_004515989.1	scaffold549	51770	AA	GG	GG	INTERGENIC			
SNP_76821_A_57754	NW_004515989.1	scaffold549	57754	GG	CC	CC	INTERGENIC			
SNP_76822_A_58079	NW_004515989.1	scaffold549	58079	AA	GG	GG	INTERGENIC			
SNP_76823_A_58089	NW_004515989.1	scaffold549	58089	TT	AA	AA	INTERGENIC			
SNP_76825_A_61962	NW_004515989.1	scaffold549	61962	AA	TT	TT	INTERGENIC			
SNP_76826_A_62025	NW_004515989.1	scaffold549	62025	AA	GG	GG	INTERGENIC			
SNP_76827_A_62072	NW_004515989.1	scaffold549	62072	CC	TT	TT	INTERGENIC			
SNP_76828_A_2383	NW_004515991.1	scaffold553	2383	TT	CC	CC	INTERGENIC			
SNP_76831_A_2966	NW_004515991.1	scaffold553	2966	TT	GG	GG	INTERGENIC			
SNP_76832_A_3244	NW_004515991.1	scaffold553	3244	AA	CC	CC	INTERGENIC			
SNP_76833_A_3408	NW_004515991.1	scaffold553	3408	TT	GG	GG	INTERGENIC			
SNP_76834_A_3477	NW_004515991.1	scaffold553	3477	TT	AA	AA	INTERGENIC			
SNP_76835_A_3496	NW_004515991.1	scaffold553	3496	CC	AA	AA	INTERGENIC			
SNP_76836_A_3947	NW_004515991.1	scaffold553	3947	CC	AA	AA	INTERGENIC			
SNP_76837_A_4936	NW_004515991.1	scaffold553	4936	AA	CC	CC	INTERGENIC			
SNP_76838_A_4974	NW_004515991.1	scaffold553	4974	AA	CC	CC	INTERGENIC			
SNP_76839_A_5037	NW_004515991.1	scaffold553	5037	CC	AA	AA	INTERGENIC			
SNP_76840_A_5146	NW_004515991.1	scaffold553	5146	TT	CC	CC	INTERGENIC			
SNP_76841_A_5220	NW_004515991.1	scaffold553	5220	TT	GG	GG	INTERGENIC			
SNP_76842_A_5224	NW_004515991.1	scaffold553	5224	GG	AA	AA	INTERGENIC			
SNP_76843_A_24823	NW_004515991.1	scaffold553	24823	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76844_A_24846	NW_004515991.1	scaffold553	24846	AA	GG	GG	INTERGENIC			
SNP_76845_A_25109	NW_004515991.1	scaffold553	25109	TT	CC	CC	INTERGENIC			
SNP_76846_A_33524	NW_004515991.1	scaffold553	33524	AA	GG	GG	INTERGENIC			
SNP_76847_A_33527	NW_004515991.1	scaffold553	33527	GG	AA	AA	INTERGENIC			
SNP_76848_A_33534	NW_004515991.1	scaffold553	33534	AA	GG	GG	INTERGENIC			
SNP_76849_A_33537	NW_004515991.1	scaffold553	33537	TT	GG	GG	INTERGENIC			
SNP_76850_A_33542	NW_004515991.1	scaffold553	33542	TT	CC	CC	INTERGENIC			
SNP_76851_A_33575	NW_004515991.1	scaffold553	33575	GG	AA	AA	INTERGENIC			
SNP_76852_A_33596	NW_004515991.1	scaffold553	33596	CC	TT	TT	INTERGENIC			
SNP_76853_A_33617	NW_004515991.1	scaffold553	33617	GG	AA	AA	INTERGENIC			
SNP_76854_A_33618	NW_004515991.1	scaffold553	33618	CC	TT	TT	INTERGENIC			
SNP_76855_A_33659	NW_004515991.1	scaffold553	33659	AA	TT	TT	INTERGENIC			
SNP_76856_A_44020	NW_004515991.1	scaffold553	44020	CC	TT	TT	INTERGENIC			
SNP_76857_A_52622	NW_004515991.1	scaffold553	52622	AA	TT	TT	INTERGENIC			
SNP_76858_A_69797	NW_004515991.1	scaffold553	69797	CC	TT	TT	INTERGENIC			
SNP_76859_A_69798	NW_004515991.1	scaffold553	69798	AA	GG	GG	INTERGENIC			
SNP_76860_A_69824	NW_004515991.1	scaffold553	69824	GG	AA	AA	INTERGENIC			
SNP_76861_A_91760	NW_004515991.1	scaffold553	91760	GG	AA	AA	INTERGENIC			
SNP_76862_A_92367	NW_004515991.1	scaffold553	92367	GG	AA	AA	INTERGENIC			
SNP_76863_A_92469	NW_004515991.1	scaffold553	92469	TT	GG	GG	INTERGENIC			
SNP_76864_A_92506	NW_004515991.1	scaffold553	92506	GG	CC	CC	INTERGENIC			
SNP_76865_A_92548	NW_004515991.1	scaffold553	92548	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76866_A_92598	NW_004515991.1	scaffold553	92598	AA	GG	GG	INTERGENIC			
SNP_76867_A_92610	NW_004515991.1	scaffold553	92610	CC	TT	TT	INTERGENIC			
SNP_76868_A_92856	NW_004515991.1	scaffold553	92856	AA	GG	GG	INTERGENIC			
SNP_76869_A_92867	NW_004515991.1	scaffold553	92867	TT	CC	CC	INTERGENIC			
SNP_76870_A_93006	NW_004515991.1	scaffold553	93006	GG	TT	TT	INTERGENIC			
SNP_76871_A_126872	NW_004515991.1	scaffold553	126872	TT	AA	AA	INTERGENIC			
SNP_76872_A_164129	NW_004515991.1	scaffold553	164129	CC	TT	TT	INTERGENIC			
SNP_76873_A_198147	NW_004515991.1	scaffold553	198147	AA	GG	GG	INTERGENIC			
SNP_76874_A_201072	NW_004515991.1	scaffold553	201072	AA	GG	GG	INTERGENIC			
SNP_76875_A_201089	NW_004515991.1	scaffold553	201089	TT	CC	CC	INTERGENIC			
SNP_76876_A_325492	NW_004515991.1	scaffold553	325492	TT	CC	CC	INTRON	101503376	structural maintenance of chromosomes protein 6A-like	
SNP_76878_A_325602	NW_004515991.1	scaffold553	325602	CC	GG	GG	INTRON	101503376	structural maintenance of chromosomes protein 6A-like	
SNP_76879_A_386557	NW_004515991.1	scaffold553	386557	TT	CC	CC	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76880_A_386558	NW_004515991.1	scaffold553	386558	CC	AA	AA	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76881_A_388873	NW_004515991.1	scaffold553	388873	TT	CC	CC	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76882_A_388877	NW_004515991.1	scaffold553	388877	AA	GG	GG	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76883_A_403340	NW_004515991.1	scaffold553	403340	TT	AA	AA	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76884_A_403346	NW_004515991.1	scaffold553	403346	TT	GG	GG	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76885_A_403389	NW_004515991.1	scaffold553	403389	AA	CC	CC	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76886_A_403416	NW_004515991.1	scaffold553	403416	GG	AA	AA	INTRON	101511854	zinc finger protein ZAT4-like	
SNP_76887_A_437916	NW_004515991.1	scaffold553	437916	CC	TT	TT	INTERGENIC			
SNP_76888_A_464305	NW_004515991.1	scaffold553	464305	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76889_A_475948	NW_004515991.1	scaffold553	475948	TT	CC	CC	INTERGENIC			
SNP_76890_A_475975	NW_004515991.1	scaffold553	475975	CC	TT	TT	INTERGENIC			
SNP_76891_A_476193	NW_004515991.1	scaffold553	476193	AA	GG	GG	INTERGENIC			
SNP_76892_A_476239	NW_004515991.1	scaffold553	476239	TT	CC	CC	INTERGENIC			
SNP_76893_A_476352	NW_004515991.1	scaffold553	476352	AA	CC	CC	INTERGENIC			
SNP_76894_A_476385	NW_004515991.1	scaffold553	476385	AA	TT	TT	INTERGENIC			
SNP_76895_A_476386	NW_004515991.1	scaffold553	476386	AA	CC	CC	INTERGENIC			
SNP_76896_A_476553	NW_004515991.1	scaffold553	476553	AA	GG	GG	INTERGENIC			
SNP_76897_A_476704	NW_004515991.1	scaffold553	476704	TT	CC	CC	INTERGENIC			
SNP_76898_A_476889	NW_004515991.1	scaffold553	476889	AA	GG	GG	INTERGENIC			
SNP_76899_A_480177	NW_004515991.1	scaffold553	480177	GG	AA	AA	INTERGENIC			
SNP_76900_A_480236	NW_004515991.1	scaffold553	480236	AA	GG	GG	INTERGENIC			
SNP_76901_A_480270	NW_004515991.1	scaffold553	480270	AA	GG	GG	INTERGENIC			
SNP_76902_A_515452	NW_004515991.1	scaffold553	515452	AA	GG	GG	INTERGENIC			
SNP_76903_A_527036	NW_004515991.1	scaffold553	527036	TT	CC	CC	INTERGENIC			
SNP_76904_A_583102	NW_004515991.1	scaffold553	583102	TT	CC	CC	INTERGENIC			
SNP_76905_A_583173	NW_004515991.1	scaffold553	583173	AA	GG	GG	INTERGENIC			
SNP_76906_A_583454	NW_004515991.1	scaffold553	583454	TT	GG	GG	INTERGENIC			
SNP_76908_A_583476	NW_004515991.1	scaffold553	583476	AA	CC	CC	INTERGENIC			
SNP_76909_A_592157	NW_004515991.1	scaffold553	592157	GG	AA	AA	INTERGENIC			
SNP_76910_A_692983	NW_004515991.1	scaffold553	692983	AA	TT	TT	INTERGENIC			
SNP_76911_A_723238	NW_004515991.1	scaffold553	723238	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76912_A_75525	NW_004515991.1	scaffold553	75525	AA	GG	GG	INTERGENIC		
SNP_76913_A_766770	NW_004515991.1	scaffold553	766770	AA	GG	GG	INTERGENIC		
SNP_76914_A_766771	NW_004515991.1	scaffold553	766771	GG	CC	CC	INTERGENIC		
SNP_76915_A_766984	NW_004515991.1	scaffold553	766984	TT	CC	CC	INTERGENIC		
SNP_76916_A_766985	NW_004515991.1	scaffold553	766985	CC	TT	TT	INTERGENIC		
SNP_76917_A_766986	NW_004515991.1	scaffold553	766986	CC	TT	TT	INTERGENIC		
SNP_76918_A_779157	NW_004515991.1	scaffold553	779157	AA	GG	GG	INTRON	101508958	agamous-like MADS-box protein AGL12
SNP_76919_A_790908	NW_004515991.1	scaffold553	790908	GG	AA	AA	INTERGENIC		
SNP_76920_A_801916	NW_004515991.1	scaffold553	801916	GG	AA	AA	INTERGENIC		
SNP_76921_A_812439	NW_004515991.1	scaffold553	812439	AA	TT	TT	INTERGENIC		
SNP_76922_A_823502	NW_004515991.1	scaffold553	823502	CC	TT	TT	INTERGENIC		
SNP_76923_A_839443	NW_004515991.1	scaffold553	839443	AA	CC	CC	INTERGENIC		
SNP_76924_A_839460	NW_004515991.1	scaffold553	839460	TT	CC	CC	INTERGENIC		
SNP_76925_A_841264	NW_004515991.1	scaffold553	841264	TT	CC	CC	INTERGENIC		
SNP_76926_A_842101	NW_004515991.1	scaffold553	842101	AA	GG	GG	INTERGENIC		
SNP_76927_A_842146	NW_004515991.1	scaffold553	842146	CC	AA	AA	INTERGENIC		
SNP_76928_A_842152	NW_004515991.1	scaffold553	842152	TT	CC	CC	INTERGENIC		
SNP_76929_A_842197	NW_004515991.1	scaffold553	842197	TT	CC	CC	INTERGENIC		
SNP_76930_A_842215	NW_004515991.1	scaffold553	842215	GG	CC	CC	INTERGENIC		
SNP_76931_A_843188	NW_004515991.1	scaffold553	843188	GG	AA	AA	INTERGENIC		
SNP_76933_A_871861	NW_004515991.1	scaffold553	871861	AA	CC	CC	INTERGENIC		
SNP_76934_A_915219	NW_004515991.1	scaffold553	915219	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76935_A_947333	NW_004515991.1	scaffold553	947333	CC	TT	TT	INTERGENIC			
SNP_76936_A_824	NW_004515992.1	scaffold556	824	TT	AA	AA	INTERGENIC			
SNP_76937_A_863	NW_004515992.1	scaffold556	863	TT	AA	AA	INTERGENIC			
SNP_76938_A_885	NW_004515992.1	scaffold556	885	TT	CC	CC	INTERGENIC			
SNP_76939_A_905	NW_004515992.1	scaffold556	905	AA	CC	CC	INTERGENIC			
SNP_76940_A_948	NW_004515992.1	scaffold556	948	AA	TT	TT	INTERGENIC			
SNP_76941_A_960	NW_004515992.1	scaffold556	960	TT	GG	GG	INTERGENIC			
SNP_76942_A_1059	NW_004515992.1	scaffold556	1059	TT	AA	AA	INTERGENIC			
SNP_76943_A_1105	NW_004515992.1	scaffold556	1105	CC	GG	GG	INTERGENIC			
SNP_76944_A_1109	NW_004515992.1	scaffold556	1109	GG	TT	TT	INTERGENIC			
SNP_76945_A_1120	NW_004515992.1	scaffold556	1120	TT	GG	GG	INTERGENIC			
SNP_76946_A_1123	NW_004515992.1	scaffold556	1123	AA	GG	GG	INTERGENIC			
SNP_76947_A_1129	NW_004515992.1	scaffold556	1129	TT	GG	GG	INTERGENIC			
SNP_76948_A_1182	NW_004515992.1	scaffold556	1182	AA	TT	TT	INTERGENIC			
SNP_76949_A_1199	NW_004515992.1	scaffold556	1199	GG	AA	AA	INTERGENIC			
SNP_76950_A_1290	NW_004515992.1	scaffold556	1290	AA	GG	GG	INTERGENIC			
SNP_76951_A_1666	NW_004515992.1	scaffold556	1666	GG	TT	TT	INTERGENIC			
SNP_76952_A_1784	NW_004515992.1	scaffold556	1784	AA	GG	GG	INTERGENIC			
SNP_76954_A_1810	NW_004515992.1	scaffold556	1810	TT	CC	CC	INTERGENIC			
SNP_76955_A_1821	NW_004515992.1	scaffold556	1821	CC	GG	GG	INTERGENIC			
SNP_76956_A_1951	NW_004515992.1	scaffold556	1951	TT	AA	AA	INTERGENIC			
SNP_76957_A_2614	NW_004515992.1	scaffold556	2614	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_76958_A_2901	NW_004515992.1	scaffold556	2901	AA	TT	TT	INTERGENIC		
SNP_76959_A_2931	NW_004515992.1	scaffold556	2931	AA	TT	TT	INTERGENIC		
SNP_76960_A_2934	NW_004515992.1	scaffold556	2934	TT	GG	GG	INTERGENIC		
SNP_76961_A_2946	NW_004515992.1	scaffold556	2946	TT	AA	AA	INTERGENIC		
SNP_76962_A_3010	NW_004515992.1	scaffold556	3010	TT	CC	CC	INTERGENIC		
SNP_76963_A_3041	NW_004515992.1	scaffold556	3041	CC	TT	TT	INTERGENIC		
SNP_76964_A_3153	NW_004515992.1	scaffold556	3153	TT	CC	CC	INTERGENIC		
SNP_76965_A_3171	NW_004515992.1	scaffold556	3171	TT	GG	GG	INTERGENIC		
SNP_76966_A_3292	NW_004515992.1	scaffold556	3292	GG	CC	CC	INTERGENIC		
SNP_76967_A_3368	NW_004515992.1	scaffold556	3368	AA	TT	TT	INTERGENIC		
SNP_76968_A_3369	NW_004515992.1	scaffold556	3369	TT	GG	GG	INTERGENIC		
SNP_76969_A_3689	NW_004515992.1	scaffold556	3689	AA	TT	TT	INTERGENIC		
SNP_76970_A_5217	NW_004515993.1	scaffold557	5217	AA	CC	CC	INTERGENIC		
SNP_76971_A_5261	NW_004515993.1	scaffold557	5261	CC	TT	TT	INTERGENIC		
SNP_76972_A_1929	NW_004515994.1	scaffold558	1929	TT	CC	CC	INTERGENIC		
SNP_76973_A_28639	NW_004515995.1	scaffold559	28639	AA	GG	GG	INTERGENIC		
SNP_76974_A_35249	NW_004515995.1	scaffold559	35249	CC	TT	TT	INTERGENIC		
SNP_76975_A_35294	NW_004515995.1	scaffold559	35294	CC	TT	TT	INTERGENIC		
SNP_76976_A_42670	NW_004515995.1	scaffold559	42670	TT	AA	AA	INTERGENIC		
SNP_76977_A_51767	NW_004515995.1	scaffold559	51767	TT	GG	GG	INTRON	101513140	pleiotropic drug resistance protein 1-like
SNP_76978_A_61714	NW_004515995.1	scaffold559	61714	GG	CC	CC	INTERGENIC		
SNP_76979_A_61748	NW_004515995.1	scaffold559	61748	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_76980_A_61992	NW_004515995.1	scaffold559	61992	AA	TT	TT	INTERGENIC			
SNP_76981_A_62011	NW_004515995.1	scaffold559	62011	CC	TT	TT	INTERGENIC			
SNP_76982_A_62534	NW_004515995.1	scaffold559	62534	TT	AA	AA	INTERGENIC			
SNP_76983_A_62672	NW_004515995.1	scaffold559	62672	TT	CC	CC	INTERGENIC			
SNP_76984_A_62680	NW_004515995.1	scaffold559	62680	GG	AA	AA	INTERGENIC			
SNP_76985_A_62694	NW_004515995.1	scaffold559	62694	TT	AA	AA	INTERGENIC			
SNP_76986_A_62701	NW_004515995.1	scaffold559	62701	CC	TT	TT	INTERGENIC			
SNP_76987_A_62751	NW_004515995.1	scaffold559	62751	AA	TT	TT	INTERGENIC			
SNP_76988_A_62758	NW_004515995.1	scaffold559	62758	GG	TT	TT	INTERGENIC			
SNP_76989_A_62794	NW_004515995.1	scaffold559	62794	TT	AA	AA	INTERGENIC			
SNP_76990_A_62813	NW_004515995.1	scaffold559	62813	GG	CC	CC	INTERGENIC			
SNP_76991_A_62831	NW_004515995.1	scaffold559	62831	GG	AA	AA	INTERGENIC			
SNP_76992_A_62848	NW_004515995.1	scaffold559	62848	GG	AA	AA	INTERGENIC			
SNP_76993_A_62854	NW_004515995.1	scaffold559	62854	TT	CC	CC	INTERGENIC			
SNP_76994_A_62899	NW_004515995.1	scaffold559	62899	TT	AA	AA	INTERGENIC			
SNP_76995_A_62916	NW_004515995.1	scaffold559	62916	GG	TT	TT	INTERGENIC			
SNP_76996_A_62928	NW_004515995.1	scaffold559	62928	CC	TT	TT	INTERGENIC			
SNP_76997_A_62932	NW_004515995.1	scaffold559	62932	GG	TT	TT	INTERGENIC			
SNP_76998_A_62938	NW_004515995.1	scaffold559	62938	GG	TT	TT	INTERGENIC			
SNP_76999_A_62999	NW_004515995.1	scaffold559	62999	AA	GG	GG	INTERGENIC			
SNP_77000_A_63013	NW_004515995.1	scaffold559	63013	GG	TT	TT	INTERGENIC			
SNP_77001_A_63017	NW_004515995.1	scaffold559	63017	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77002_A_63032	NW_004515995.1	scaffold559	63032	TT	CC	CC	INTERGENIC			
SNP_77003_A_75088	NW_004515995.1	scaffold559	75088	AA	CC	CC	INTERGENIC			
SNP_77004_A_75131	NW_004515995.1	scaffold559	75131	AA	TT	TT	INTERGENIC			
SNP_77005_A_92847	NW_004515995.1	scaffold559	92847	AA	CC	CC	INTERGENIC			
SNP_77006_A_92848	NW_004515995.1	scaffold559	92848	GG	TT	TT	INTERGENIC			
SNP_77007_A_92887	NW_004515995.1	scaffold559	92887	TT	AA	AA	INTERGENIC			
SNP_77008_A_4649	NW_004515996.1	scaffold560	4649	AA	GG	GG	INTERGENIC			
SNP_77009_A_16255	NW_004515996.1	scaffold560	16255	CC	TT	TT	INTERGENIC			
SNP_77010_A_16560	NW_004515996.1	scaffold560	16560	CC	TT	TT	INTERGENIC			
SNP_77011_A_16582	NW_004515996.1	scaffold560	16582	GG	TT	TT	INTERGENIC			
SNP_77012_A_16589	NW_004515996.1	scaffold560	16589	TT	CC	CC	INTERGENIC			
SNP_77013_A_20504	NW_004515996.1	scaffold560	20504	GG	AA	AA	INTERGENIC			
SNP_77014_A_28821	NW_004515996.1	scaffold560	28821	CC	AA	AA	INTERGENIC			
SNP_77016_A_33848	NW_004515996.1	scaffold560	33848	TT	CC	CC	INTERGENIC			
SNP_77017_A_69131	NW_004515996.1	scaffold560	69131	GG	AA	AA	INTERGENIC			
SNP_77018_A_117523	NW_004515996.1	scaffold560	117523	TT	CC	CC	INTERGENIC			
SNP_77019_A_117529	NW_004515996.1	scaffold560	117529	CC	TT	TT	INTERGENIC			
SNP_77020_A_117532	NW_004515996.1	scaffold560	117532	CC	TT	TT	INTERGENIC			
SNP_77021_A_117535	NW_004515996.1	scaffold560	117535	GG	AA	AA	INTERGENIC			
SNP_77022_A_117593	NW_004515996.1	scaffold560	117593	TT	CC	CC	INTERGENIC			
SNP_77023_A_117596	NW_004515996.1	scaffold560	117596	GG	AA	AA	INTERGENIC			
SNP_77024_A_117598	NW_004515996.1	scaffold560	117598	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77025_A_117601	NW_004515996.1	scaffold560	117601	TT	GG	GG	INTERGENIC		
SNP_77026_A_117613	NW_004515996.1	scaffold560	117613	TT	CC	CC	INTERGENIC		
SNP_77027_A_117628	NW_004515996.1	scaffold560	117628	AA	GG	GG	INTERGENIC		
SNP_77028_A_129767	NW_004515996.1	scaffold560	129767	TT	AA	AA	INTERGENIC		
SNP_77029_A_132126	NW_004515996.1	scaffold560	132126	AA	TT	TT	INTERGENIC		
SNP_77031_A_160479	NW_004515996.1	scaffold560	160479	AA	TT	TT	INTERGENIC		
SNP_77032_A_160510	NW_004515996.1	scaffold560	160510	TT	CC	CC	INTERGENIC		
SNP_77033_A_160637	NW_004515996.1	scaffold560	160637	CC	TT	TT	INTERGENIC		
SNP_77034_A_160692	NW_004515996.1	scaffold560	160692	TT	AA	AA	INTERGENIC		
SNP_77036_A_160895	NW_004515996.1	scaffold560	160895	TT	CC	CC	INTERGENIC		
SNP_77037_A_10452	NW_004515997.1	scaffold561	10452	TT	GG	GG	INTERGENIC		
SNP_77038_A_10464	NW_004515997.1	scaffold561	10464	GG	AA	AA	INTERGENIC		
SNP_77039_A_22246	NW_004515997.1	scaffold561	22246	GG	AA	AA	INTERGENIC		
SNP_77040_A_25045	NW_004515997.1	scaffold561	25045	CC	AA	AA	DRR	101514005	uncharacterized LOC101514005
SNP_77041_A_25167	NW_004515997.1	scaffold561	25167	TT	CC	CC	DRR	101514005	uncharacterized LOC101514005
SNP_77042_A_25168	NW_004515997.1	scaffold561	25168	CC	TT	TT	DRR	101514005	uncharacterized LOC101514005
SNP_77043_A_25380	NW_004515997.1	scaffold561	25380	AA	CC	CC	DRR	101514005	uncharacterized LOC101514005
SNP_77045_A_28735	NW_004515997.1	scaffold561	28735	AA	TT	TT	URR	101514005	uncharacterized LOC101514005
SNP_77046_A_28894	NW_004515997.1	scaffold561	28894	AA	GG	GG	URR	101514005	uncharacterized LOC101514005
SNP_77047_A_28962	NW_004515997.1	scaffold561	28962	TT	GG	GG	URR	101514005	uncharacterized LOC101514005
SNP_77048_A_31365	NW_004515997.1	scaffold561	31365	TT	AA	AA	INTERGENIC		
SNP_77049_A_31648	NW_004515997.1	scaffold561	31648	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77050_A_31653	NW_004515997.1	scaffold561	31653	AA	CC	CC	INTERGENIC		
SNP_77051_A_31802	NW_004515997.1	scaffold561	31802	AA	GG	GG	INTERGENIC		
SNP_77052_A_33329	NW_004515997.1	scaffold561	33329	CC	AA	AA	DRR	101513775	myosin tail region-interacting protein MT11-like
SNP_77053_A_39425	NW_004515997.1	scaffold561	39425	CC	TT	TT	DRR	101514552	uncharacterized LOC101514552
SNP_77054_A_39519	NW_004515997.1	scaffold561	39519	CC	TT	TT	DRR	101514552	uncharacterized LOC101514552
SNP_77055_A_39759	NW_004515997.1	scaffold561	39759	AA	GG	GG	URR	101489603	Unknown function
SNP_77056_A_39764	NW_004515997.1	scaffold561	39764	AA	GG	GG	URR	101489603	Unknown function
SNP_77057_A_84205	NW_004515997.1	scaffold561	84205	GG	TT	TT	INTERGENIC		
SNP_77058_A_84566	NW_004515997.1	scaffold561	84566	GG	TT	TT	INTERGENIC		
SNP_77059_A_90774	NW_004515997.1	scaffold561	90774	TT	CC	CC	INTRON	101490577	steroid 5-alpha-reductase DET2
SNP_77060_A_176940	NW_004515997.1	scaffold561	176940	TT	CC	CC	INTERGENIC		
SNP_77061_A_183380	NW_004515997.1	scaffold561	183380	TT	AA	AA	INTERGENIC		
SNP_77063_A_78983	NW_004515998.1	scaffold562	78983	CC	TT	TT	INTERGENIC		
SNP_77064_A_79946	NW_004515998.1	scaffold562	79946	TT	CC	CC	INTERGENIC		
SNP_77065_A_82871	NW_004515998.1	scaffold562	82871	AA	TT	TT	INTERGENIC		
SNP_77066_A_125295	NW_004515998.1	scaffold562	125295	AA	TT	TT	INTERGENIC		
SNP_77067_A_148388	NW_004515998.1	scaffold562	148388	CC	TT	TT	INTERGENIC		
SNP_77068_A_158478	NW_004515998.1	scaffold562	158478	AA	GG	GG	DRR	101492632	non-specific lipid-transfer protein 1-like
SNP_77069_A_174132	NW_004515998.1	scaffold562	174132	CC	GG	GG	INTERGENIC		
SNP_77070_A_197475	NW_004515998.1	scaffold562	197475	TT	CC	CC	INTERGENIC		
SNP_77071_A_214321	NW_004515998.1	scaffold562	214321	TT	CC	CC	INTERGENIC		
SNP_77072_A_214323	NW_004515998.1	scaffold562	214323	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77073_A_214330	NW_004515998.1	scaffold562	214330	CC	AA	AA	INTERGENIC			
SNP_77074_A_214404	NW_004515998.1	scaffold562	214404	GG	CC	CC	INTERGENIC			
SNP_77075_A_214429	NW_004515998.1	scaffold562	214429	AA	GG	GG	INTERGENIC			
SNP_77076_A_219407	NW_004515998.1	scaffold562	219407	TT	CC	CC	INTERGENIC			
SNP_77077_A_219459	NW_004515998.1	scaffold562	219459	TT	CC	CC	INTERGENIC			
SNP_77078_A_219483	NW_004515998.1	scaffold562	219483	TT	CC	CC	INTERGENIC			
SNP_77079_A_219802	NW_004515998.1	scaffold562	219802	GG	TT	TT	INTERGENIC			
SNP_77080_A_221452	NW_004515998.1	scaffold562	221452	TT	CC	CC	INTERGENIC			
SNP_77081_A_221482	NW_004515998.1	scaffold562	221482	CC	TT	TT	INTERGENIC			
SNP_77082_A_221777	NW_004515998.1	scaffold562	221777	AA	GG	GG	INTERGENIC			
SNP_77083_A_240790	NW_004515998.1	scaffold562	240790	GG	AA	AA	INTERGENIC			
SNP_77084_A_254083	NW_004515998.1	scaffold562	254083	CC	AA	AA	INTERGENIC			
SNP_77085_A_256797	NW_004515998.1	scaffold562	256797	CC	TT	TT	INTERGENIC			
SNP_77086_A_256813	NW_004515998.1	scaffold562	256813	TT	CC	CC	INTERGENIC			
SNP_77087_A_256878	NW_004515998.1	scaffold562	256878	TT	CC	CC	INTERGENIC			
SNP_77088_A_256881	NW_004515998.1	scaffold562	256881	CC	TT	TT	INTERGENIC			
SNP_77089_A_256902	NW_004515998.1	scaffold562	256902	TT	AA	AA	INTERGENIC			
SNP_77090_A_256912	NW_004515998.1	scaffold562	256912	TT	CC	CC	INTERGENIC			
SNP_77091_A_257031	NW_004515998.1	scaffold562	257031	GG	TT	TT	INTERGENIC			
SNP_77092_A_257085	NW_004515998.1	scaffold562	257085	CC	TT	TT	INTERGENIC			
SNP_77093_A_257105	NW_004515998.1	scaffold562	257105	GG	AA	AA	INTERGENIC			
SNP_77094_A_257244	NW_004515998.1	scaffold562	257244	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77095_A_257288	NW_004515998.1	scaffold562	257288	GG	CC	CC	INTERGENIC			
SNP_77096_A_257318	NW_004515998.1	scaffold562	257318	CC	GG	GG	INTERGENIC			
SNP_77097_A_257340	NW_004515998.1	scaffold562	257340	GG	AA	AA	INTERGENIC			
SNP_77098_A_257367	NW_004515998.1	scaffold562	257367	CC	AA	AA	INTERGENIC			
SNP_77099_A_291577	NW_004515998.1	scaffold562	291577	AA	GG	GG	URR	101495530	delta-1-pyrroline-5-carboxylate synthase-like	
SNP_77100_A_294446	NW_004515998.1	scaffold562	294446	TT	CC	CC	INTERGENIC			
SNP_77101_A_294845	NW_004515998.1	scaffold562	294845	AA	TT	TT	INTERGENIC			
SNP_77102_A_294940	NW_004515998.1	scaffold562	294940	CC	TT	TT	INTERGENIC			
SNP_77103_A_335933	NW_004515998.1	scaffold562	335933	GG	AA	AA	INTERGENIC			
SNP_77104_A_8991	NW_004515999.1	scaffold563	8991	CC	AA	AA	INTERGENIC			
SNP_77105_A_9086	NW_004515999.1	scaffold563	9086	AA	GG	GG	INTERGENIC			
SNP_77106_A_9111	NW_004515999.1	scaffold563	9111	AA	GG	GG	INTERGENIC			
SNP_77107_A_18515	NW_004515999.1	scaffold563	18515	GG	AA	AA	INTERGENIC			
SNP_77108_A_18821	NW_004515999.1	scaffold563	18821	CC	TT	TT	INTERGENIC			
SNP_77109_A_22750	NW_004515999.1	scaffold563	22750	AA	CC	CC	INTERGENIC			
SNP_77110_A_22789	NW_004515999.1	scaffold563	22789	TT	CC	CC	INTERGENIC			
SNP_77111_A_22842	NW_004515999.1	scaffold563	22842	CC	TT	TT	INTERGENIC			
SNP_77112_A_22870	NW_004515999.1	scaffold563	22870	TT	AA	AA	INTERGENIC			
SNP_77113_A_23031	NW_004515999.1	scaffold563	23031	AA	TT	TT	INTERGENIC			
SNP_77114_A_23054	NW_004515999.1	scaffold563	23054	AA	GG	GG	INTERGENIC			
SNP_77115_A_23059	NW_004515999.1	scaffold563	23059	TT	CC	CC	INTERGENIC			
SNP_77116_A_23150	NW_004515999.1	scaffold563	23150	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77117_A_23171	NW_004515999.1	scaffold563	23171	CC	AA	AA	INTERGENIC			
SNP_77118_A_23554	NW_004515999.1	scaffold563	23554	GG	AA	AA	INTERGENIC			
SNP_77119_A_2239	NW_004516000.1	scaffold564	2239	TT	CC	CC	INTERGENIC			
SNP_77120_A_2620	NW_004516000.1	scaffold564	2620	AA	TT	TT	INTERGENIC			
SNP_77122_A_3207	NW_004516000.1	scaffold564	3207	GG	AA	AA	INTERGENIC			
SNP_77123_A_3267	NW_004516000.1	scaffold564	3267	GG	AA	AA	INTERGENIC			
SNP_77124_A_3279	NW_004516000.1	scaffold564	3279	TT	CC	CC	INTERGENIC			
SNP_77125_A_3332	NW_004516000.1	scaffold564	3332	TT	CC	CC	INTERGENIC			
SNP_77126_A_3347	NW_004516000.1	scaffold564	3347	AA	GG	GG	INTERGENIC			
SNP_77127_A_3390	NW_004516000.1	scaffold564	3390	AA	GG	GG	INTERGENIC			
SNP_77128_A_3449	NW_004516000.1	scaffold564	3449	TT	GG	GG	INTERGENIC			
SNP_77129_A_3468	NW_004516000.1	scaffold564	3468	TT	CC	CC	INTERGENIC			
SNP_77130_A_3469	NW_004516000.1	scaffold564	3469	CC	TT	TT	INTERGENIC			
SNP_77131_A_3541	NW_004516000.1	scaffold564	3541	CC	GG	GG	INTERGENIC			
SNP_77132_A_3658	NW_004516000.1	scaffold564	3658	AA	GG	GG	INTERGENIC			
SNP_77133_A_3722	NW_004516000.1	scaffold564	3722	AA	GG	GG	INTERGENIC			
SNP_77134_A_3770	NW_004516000.1	scaffold564	3770	CC	TT	TT	INTERGENIC			
SNP_77135_A_3943	NW_004516000.1	scaffold564	3943	GG	CC	CC	INTERGENIC			
SNP_77136_A_3991	NW_004516000.1	scaffold564	3991	AA	CC	CC	INTERGENIC			
SNP_77137_A_4137	NW_004516000.1	scaffold564	4137	TT	CC	CC	INTERGENIC			
SNP_77138_A_4188	NW_004516000.1	scaffold564	4188	GG	CC	CC	INTERGENIC			
SNP_77139_A_4193	NW_004516000.1	scaffold564	4193	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77140_A_4820	NW_004516000.1	scaffold564	4820	GG	AA	AA	INTERGENIC			
SNP_77141_A_4873	NW_004516000.1	scaffold564	4873	AA	GG	GG	INTERGENIC			
SNP_77142_A_4940	NW_004516000.1	scaffold564	4940	AA	TT	TT	INTERGENIC			
SNP_77143_A_5069	NW_004516000.1	scaffold564	5069	AA	CC	CC	INTERGENIC			
SNP_77144_A_5084	NW_004516000.1	scaffold564	5084	CC	TT	TT	INTERGENIC			
SNP_77145_A_5104	NW_004516000.1	scaffold564	5104	TT	AA	AA	INTERGENIC			
SNP_77146_A_5105	NW_004516000.1	scaffold564	5105	TT	AA	AA	INTERGENIC			
SNP_77147_A_5108	NW_004516000.1	scaffold564	5108	TT	CC	CC	INTERGENIC			
SNP_77148_A_5127	NW_004516000.1	scaffold564	5127	TT	AA	AA	INTERGENIC			
SNP_77149_A_5186	NW_004516000.1	scaffold564	5186	CC	TT	TT	INTERGENIC			
SNP_77151_A_5299	NW_004516000.1	scaffold564	5299	AA	TT	TT	INTERGENIC			
SNP_77152_A_5314	NW_004516000.1	scaffold564	5314	AA	CC	CC	INTERGENIC			
SNP_77153_A_5401	NW_004516000.1	scaffold564	5401	GG	TT	TT	INTERGENIC			
SNP_77154_A_5451	NW_004516000.1	scaffold564	5451	TT	CC	CC	INTERGENIC			
SNP_77155_A_5539	NW_004516000.1	scaffold564	5539	GG	AA	AA	INTERGENIC			
SNP_77156_A_5758	NW_004516000.1	scaffold564	5758	AA	GG	GG	INTERGENIC			
SNP_77157_A_5850	NW_004516000.1	scaffold564	5850	TT	CC	CC	INTERGENIC			
SNP_77158_A_7199	NW_004516000.1	scaffold564	7199	AA	TT	TT	INTERGENIC			
SNP_77159_A_7237	NW_004516000.1	scaffold564	7237	AA	GG	GG	INTERGENIC			
SNP_77160_A_7275	NW_004516000.1	scaffold564	7275	TT	CC	CC	INTERGENIC			
SNP_77161_A_7367	NW_004516000.1	scaffold564	7367	GG	AA	AA	INTERGENIC			
SNP_77162_A_7384	NW_004516000.1	scaffold564	7384	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77163_A_7402	NW_004516000.1	scaffold564	7402	TT	CC	CC	INTERGENIC			
SNP_77164_A_7447	NW_004516000.1	scaffold564	7447	AA	GG	GG	INTERGENIC			
SNP_77165_A_7562	NW_004516000.1	scaffold564	7562	CC	TT	TT	INTERGENIC			
SNP_77166_A_8223	NW_004516000.1	scaffold564	8223	TT	CC	CC	INTERGENIC			
SNP_77167_A_8228	NW_004516000.1	scaffold564	8228	GG	AA	AA	INTERGENIC			
SNP_77168_A_8270	NW_004516000.1	scaffold564	8270	AA	GG	GG	INTERGENIC			
SNP_77170_A_8416	NW_004516000.1	scaffold564	8416	CC	AA	AA	INTERGENIC			
SNP_77171_A_8417	NW_004516000.1	scaffold564	8417	AA	CC	CC	INTERGENIC			
SNP_77172_A_8541	NW_004516000.1	scaffold564	8541	AA	TT	TT	INTERGENIC			
SNP_77173_A_8545	NW_004516000.1	scaffold564	8545	AA	CC	CC	INTERGENIC			
SNP_77174_A_8568	NW_004516000.1	scaffold564	8568	TT	CC	CC	INTERGENIC			
SNP_77175_A_9057	NW_004516000.1	scaffold564	9057	CC	TT	TT	INTERGENIC			
SNP_77176_A_10285	NW_004516000.1	scaffold564	10285	AA	GG	GG	INTERGENIC			
SNP_77177_A_10339	NW_004516000.1	scaffold564	10339	TT	CC	CC	INTERGENIC			
SNP_77178_A_10341	NW_004516000.1	scaffold564	10341	GG	AA	AA	INTERGENIC			
SNP_77179_A_10391	NW_004516000.1	scaffold564	10391	TT	GG	GG	INTERGENIC			
SNP_77180_A_10437	NW_004516000.1	scaffold564	10437	TT	CC	CC	INTERGENIC			
SNP_77181_A_10516	NW_004516000.1	scaffold564	10516	AA	GG	GG	INTERGENIC			
SNP_77182_A_10519	NW_004516000.1	scaffold564	10519	GG	TT	TT	INTERGENIC			
SNP_77183_A_10546	NW_004516000.1	scaffold564	10546	GG	AA	AA	INTERGENIC			
SNP_77184_A_10819	NW_004516000.1	scaffold564	10819	GG	AA	AA	INTERGENIC			
SNP_77185_A_10885	NW_004516000.1	scaffold564	10885	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77186_A_11067	NW_004516000.1	scaffold564	11067	GG	CC	CC	INTERGENIC			
SNP_77187_A_11095	NW_004516000.1	scaffold564	11095	AA	CC	CC	INTERGENIC			
SNP_77188_A_11161	NW_004516000.1	scaffold564	11161	CC	TT	TT	INTERGENIC			
SNP_77189_A_11342	NW_004516000.1	scaffold564	11342	GG	AA	AA	INTERGENIC			
SNP_77190_A_11347	NW_004516000.1	scaffold564	11347	GG	TT	TT	INTERGENIC			
SNP_77191_A_11730	NW_004516000.1	scaffold564	11730	GG	CC	CC	INTERGENIC			
SNP_77192_A_12317	NW_004516000.1	scaffold564	12317	CC	TT	TT	INTERGENIC			
SNP_77193_A_12770	NW_004516000.1	scaffold564	12770	TT	GG	GG	INTERGENIC			
SNP_77194_A_12831	NW_004516000.1	scaffold564	12831	AA	CC	CC	INTERGENIC			
SNP_77195_A_12928	NW_004516000.1	scaffold564	12928	AA	GG	GG	INTERGENIC			
SNP_77196_A_13521	NW_004516000.1	scaffold564	13521	TT	CC	CC	INTERGENIC			
SNP_77197_A_13580	NW_004516000.1	scaffold564	13580	AA	GG	GG	INTERGENIC			
SNP_77199_A_13934	NW_004516000.1	scaffold564	13934	TT	AA	AA	INTERGENIC			
SNP_77200_A_14553	NW_004516000.1	scaffold564	14553	TT	AA	AA	INTERGENIC			
SNP_77201_A_14575	NW_004516000.1	scaffold564	14575	TT	GG	GG	INTERGENIC			
SNP_77203_A_15186	NW_004516000.1	scaffold564	15186	CC	GG	GG	INTERGENIC			
SNP_77205_A_15264	NW_004516000.1	scaffold564	15264	TT	CC	CC	INTERGENIC			
SNP_77206_A_15450	NW_004516000.1	scaffold564	15450	AA	TT	TT	INTERGENIC			
SNP_77207_A_23687	NW_004516000.1	scaffold564	23687	AA	GG	GG	INTERGENIC			
SNP_77208_A_24131	NW_004516000.1	scaffold564	24131	CC	TT	TT	INTERGENIC			
SNP_77209_A_24167	NW_004516000.1	scaffold564	24167	TT	CC	CC	INTERGENIC			
SNP_77210_A_24297	NW_004516000.1	scaffold564	24297	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77211_A_25890	NW_004516000.1	scaffold564	25890	GG	AA	AA	INTERGENIC			
SNP_77212_A_25896	NW_004516000.1	scaffold564	25896	TT	GG	GG	INTERGENIC			
SNP_77215_A_26166	NW_004516000.1	scaffold564	26166	GG	AA	AA	INTERGENIC			
SNP_77216_A_26212	NW_004516000.1	scaffold564	26212	GG	AA	AA	INTERGENIC			
SNP_77217_A_26247	NW_004516000.1	scaffold564	26247	TT	AA	AA	INTERGENIC			
SNP_77218_A_26249	NW_004516000.1	scaffold564	26249	AA	TT	TT	INTERGENIC			
SNP_77219_A_26444	NW_004516000.1	scaffold564	26444	AA	TT	TT	INTERGENIC			
SNP_77220_A_26457	NW_004516000.1	scaffold564	26457	GG	TT	TT	INTERGENIC			
SNP_77221_A_26504	NW_004516000.1	scaffold564	26504	CC	TT	TT	INTERGENIC			
SNP_77222_A_26518	NW_004516000.1	scaffold564	26518	TT	AA	AA	INTERGENIC			
SNP_77223_A_30076	NW_004516000.1	scaffold564	30076	GG	AA	AA	INTERGENIC			
SNP_77224_A_30151	NW_004516000.1	scaffold564	30151	TT	CC	CC	INTERGENIC			
SNP_77225_A_3775	NW_004516002.1	scaffold568	3775	CC	GG	GG	INTERGENIC			
SNP_77226_A_4022	NW_004516002.1	scaffold568	4022	CC	TT	TT	INTERGENIC			
SNP_77227_A_4046	NW_004516002.1	scaffold568	4046	AA	GG	GG	INTERGENIC			
SNP_77228_A_4170	NW_004516002.1	scaffold568	4170	TT	CC	CC	INTERGENIC			
SNP_77229_A_4463	NW_004516002.1	scaffold568	4463	TT	AA	AA	INTERGENIC			
SNP_77230_A_4671	NW_004516002.1	scaffold568	4671	CC	GG	GG	INTERGENIC			
SNP_77232_A_6664	NW_004516002.1	scaffold568	6664	AA	GG	GG	INTERGENIC			
SNP_77233_A_6665	NW_004516002.1	scaffold568	6665	TT	AA	AA	INTERGENIC			
SNP_77234_A_6873	NW_004516002.1	scaffold568	6873	GG	CC	CC	INTERGENIC			
SNP_77235_A_7135	NW_004516002.1	scaffold568	7135	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77236_A_9591	NW_004516002.1	scaffold568	9591	CC	AA	AA	INTERGENIC			
SNP_77237_A_9631	NW_004516002.1	scaffold568	9631	GG	AA	AA	INTERGENIC			
SNP_77238_A_17602	NW_004516002.1	scaffold568	17602	GG	CC	CC	INTERGENIC			
SNP_77239_A_17607	NW_004516002.1	scaffold568	17607	CC	AA	AA	INTERGENIC			
SNP_77240_A_18292	NW_004516002.1	scaffold568	18292	AA	TT	TT	INTERGENIC			
SNP_77241_A_19486	NW_004516002.1	scaffold568	19486	CC	GG	GG	INTERGENIC			
SNP_77242_A_19797	NW_004516002.1	scaffold568	19797	AA	TT	TT	INTERGENIC			
SNP_77243_A_28773	NW_004516002.1	scaffold568	28773	AA	GG	GG	INTERGENIC			
SNP_77244_A_31896	NW_004516002.1	scaffold568	31896	CC	TT	TT	INTERGENIC			
SNP_77245_A_31924	NW_004516002.1	scaffold568	31924	AA	GG	GG	INTERGENIC			
SNP_77246_A_31985	NW_004516002.1	scaffold568	31985	CC	GG	GG	INTERGENIC			
SNP_77247_A_32216	NW_004516002.1	scaffold568	32216	GG	CC	CC	INTERGENIC			
SNP_77248_A_32237	NW_004516002.1	scaffold568	32237	GG	AA	AA	INTERGENIC			
SNP_77249_A_32371	NW_004516002.1	scaffold568	32371	TT	CC	CC	INTERGENIC			
SNP_77250_A_32406	NW_004516002.1	scaffold568	32406	GG	TT	TT	INTERGENIC			
SNP_77251_A_32407	NW_004516002.1	scaffold568	32407	TT	AA	AA	INTERGENIC			
SNP_77252_A_32658	NW_004516002.1	scaffold568	32658	TT	AA	AA	INTERGENIC			
SNP_77253_A_32680	NW_004516002.1	scaffold568	32680	TT	CC	CC	INTERGENIC			
SNP_77254_A_34505	NW_004516002.1	scaffold568	34505	CC	GG	GG	INTERGENIC			
SNP_77255_A_34506	NW_004516002.1	scaffold568	34506	AA	GG	GG	INTERGENIC			
SNP_77256_A_34730	NW_004516002.1	scaffold568	34730	AA	GG	GG	INTERGENIC			
SNP_77257_A_34740	NW_004516002.1	scaffold568	34740	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77258_A_34875	NW_004516002.1	scaffold568	34875	AA	GG	GG	INTERGENIC			
SNP_77259_A_34881	NW_004516002.1	scaffold568	34881	AA	CC	CC	INTERGENIC			
SNP_77260_A_36198	NW_004516002.1	scaffold568	36198	AA	TT	TT	INTERGENIC			
SNP_77261_A_36266	NW_004516002.1	scaffold568	36266	TT	GG	GG	INTERGENIC			
SNP_77262_A_36289	NW_004516002.1	scaffold568	36289	CC	GG	GG	INTERGENIC			
SNP_77263_A_36520	NW_004516002.1	scaffold568	36520	AA	TT	TT	INTERGENIC			
SNP_77264_A_36583	NW_004516002.1	scaffold568	36583	GG	AA	AA	INTERGENIC			
SNP_77265_A_36997	NW_004516002.1	scaffold568	36997	TT	CC	CC	INTERGENIC			
SNP_77266_A_37295	NW_004516002.1	scaffold568	37295	TT	CC	CC	INTERGENIC			
SNP_77267_A_37313	NW_004516002.1	scaffold568	37313	AA	TT	TT	INTERGENIC			
SNP_77268_A_37328	NW_004516002.1	scaffold568	37328	TT	CC	CC	INTERGENIC			
SNP_77269_A_37357	NW_004516002.1	scaffold568	37357	GG	CC	CC	INTERGENIC			
SNP_77270_A_37852	NW_004516002.1	scaffold568	37852	GG	CC	CC	INTERGENIC			
SNP_77271_A_38028	NW_004516002.1	scaffold568	38028	TT	AA	AA	INTERGENIC			
SNP_77272_A_844	NW_004516004.1	scaffold571	844	TT	AA	AA	INTERGENIC			
SNP_77273_A_958	NW_004516004.1	scaffold571	958	AA	GG	GG	INTERGENIC			
SNP_77274_A_11988	NW_004516004.1	scaffold571	11988	AA	CC	CC	INTERGENIC			
SNP_77275_A_12038	NW_004516004.1	scaffold571	12038	AA	GG	GG	INTERGENIC			
SNP_77276_A_12085	NW_004516004.1	scaffold571	12085	TT	CC	CC	INTERGENIC			
SNP_77277_A_12096	NW_004516004.1	scaffold571	12096	CC	AA	AA	INTERGENIC			
SNP_77278_A_12201	NW_004516004.1	scaffold571	12201	CC	TT	TT	INTERGENIC			
SNP_77279_A_12235	NW_004516004.1	scaffold571	12235	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77280_A_12431	NW_004516004.1	scaffold571	12431	CC	TT	TT	INTERGENIC		
SNP_77281_A_18072	NW_004516004.1	scaffold571	18072	AA	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77282_A_18095	NW_004516004.1	scaffold571	18095	GG	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77283_A_18118	NW_004516004.1	scaffold571	18118	GG	AA	AA	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77285_A_18182	NW_004516004.1	scaffold571	18182	CC	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77286_A_18302	NW_004516004.1	scaffold571	18302	CC	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77287_A_18371	NW_004516004.1	scaffold571	18371	AA	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77288_A_18518	NW_004516004.1	scaffold571	18518	AA	TT	TT	URR	101496511	probable serine/threonine-protein kinase DDB_G0267514
SNP_77289_A_26933	NW_004516004.1	scaffold571	26933	AA	GG	GG	INTERGENIC		
SNP_77290_A_31157	NW_004516004.1	scaffold571	31157	CC	TT	TT	INTERGENIC		
SNP_77291_A_31167	NW_004516004.1	scaffold571	31167	TT	AA	AA	INTERGENIC		
SNP_77292_A_31199	NW_004516004.1	scaffold571	31199	GG	TT	TT	INTERGENIC		
SNP_77293_A_31450	NW_004516004.1	scaffold571	31450	GG	CC	CC	INTERGENIC		
SNP_77294_A_31457	NW_004516004.1	scaffold571	31457	TT	CC	CC	INTERGENIC		
SNP_77295_A_31477	NW_004516004.1	scaffold571	31477	TT	CC	CC	INTERGENIC		
SNP_77296_A_31487	NW_004516004.1	scaffold571	31487	TT	AA	AA	INTERGENIC		
SNP_77297_A_31500	NW_004516004.1	scaffold571	31500	GG	AA	AA	INTERGENIC		
SNP_77298_A_31531	NW_004516004.1	scaffold571	31531	TT	GG	GG	INTERGENIC		
SNP_77299_A_32335	NW_004516004.1	scaffold571	32335	TT	CC	CC	INTERGENIC		
SNP_77300_A_33628	NW_004516004.1	scaffold571	33628	AA	CC	CC	DRR	101496844	Unknown function
SNP_77301_A_37916	NW_004516004.1	scaffold571	37916	CC	TT	TT	INTERGENIC		
SNP_77302_A_40323	NW_004516004.1	scaffold571	40323	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77303_A_40583	NW_004516004.1	scaffold571	40583	GG	AA	AA	INTERGENIC			
SNP_77304_A_40624	NW_004516004.1	scaffold571	40624	TT	GG	GG	INTERGENIC			
SNP_77305_A_40626	NW_004516004.1	scaffold571	40626	GG	CC	CC	INTERGENIC			
SNP_77306_A_40778	NW_004516004.1	scaffold571	40778	TT	CC	CC	INTERGENIC			
SNP_77307_A_40780	NW_004516004.1	scaffold571	40780	AA	GG	GG	INTERGENIC			
SNP_77308_A_40786	NW_004516004.1	scaffold571	40786	GG	AA	AA	INTERGENIC			
SNP_77309_A_40825	NW_004516004.1	scaffold571	40825	GG	TT	TT	INTERGENIC			
SNP_77310_A_40922	NW_004516004.1	scaffold571	40922	AA	GG	GG	INTERGENIC			
SNP_77311_A_41058	NW_004516004.1	scaffold571	41058	TT	AA	AA	INTERGENIC			
SNP_77312_A_41171	NW_004516004.1	scaffold571	41171	CC	TT	TT	INTERGENIC			
SNP_77313_A_41226	NW_004516004.1	scaffold571	41226	GG	AA	AA	INTERGENIC			
SNP_77315_A_41244	NW_004516004.1	scaffold571	41244	GG	TT	TT	INTERGENIC			
SNP_77316_A_47642	NW_004516004.1	scaffold571	47642	CC	AA	AA	INTERGENIC			
SNP_77317_A_47887	NW_004516004.1	scaffold571	47887	AA	TT	TT	INTERGENIC			
SNP_77318_A_53858	NW_004516004.1	scaffold571	53858	GG	TT	TT	INTERGENIC			
SNP_77320_A_54226	NW_004516004.1	scaffold571	54226	AA	TT	TT	INTERGENIC			
SNP_77321_A_61566	NW_004516004.1	scaffold571	61566	CC	TT	TT	INTERGENIC			
SNP_77322_A_61567	NW_004516004.1	scaffold571	61567	AA	GG	GG	INTERGENIC			
SNP_77323_A_61634	NW_004516004.1	scaffold571	61634	TT	CC	CC	INTERGENIC			
SNP_77324_A_62782	NW_004516004.1	scaffold571	62782	CC	TT	TT	INTERGENIC			
SNP_77325_A_62950	NW_004516004.1	scaffold571	62950	TT	GG	GG	INTERGENIC			
SNP_77326_A_69120	NW_004516004.1	scaffold571	69120	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77327_A_104314	NW_004516004.1	scaffold571	104314	TT	GG	GG	INTERGENIC			
SNP_77328_A_104322	NW_004516004.1	scaffold571	104322	TT	CC	CC	INTERGENIC			
SNP_77329_A_104392	NW_004516004.1	scaffold571	104392	AA	GG	GG	INTERGENIC			
SNP_77330_A_107012	NW_004516004.1	scaffold571	107012	CC	AA	AA	INTERGENIC			
SNP_77331_A_1091	NW_004516005.1	scaffold572	1091	AA	TT	TT	INTERGENIC			
SNP_77332_A_695	NW_004516006.1	scaffold573	695	AA	GG	GG	INTERGENIC			
SNP_77333_A_32327	NW_004516007.1	scaffold574	32327	GG	TT	TT	INTERGENIC			
SNP_77334_A_33376	NW_004516007.1	scaffold574	33376	TT	CC	CC	INTERGENIC			
SNP_77335_A_42262	NW_004516007.1	scaffold574	42262	GG	AA	AA	INTERGENIC			
SNP_77336_A_42679	NW_004516007.1	scaffold574	42679	CC	TT	TT	INTERGENIC			
SNP_77337_A_43886	NW_004516007.1	scaffold574	43886	TT	AA	AA	INTERGENIC			
SNP_77339_A_80195	NW_004516007.1	scaffold574	80195	AA	GG	GG	INTERGENIC			
SNP_77340_A_93740	NW_004516007.1	scaffold574	93740	GG	TT	TT	INTERGENIC			
SNP_77341_A_93823	NW_004516007.1	scaffold574	93823	AA	TT	TT	INTERGENIC			
SNP_77342_A_94506	NW_004516007.1	scaffold574	94506	AA	GG	GG	INTERGENIC			
SNP_77343_A_94518	NW_004516007.1	scaffold574	94518	AA	GG	GG	INTERGENIC			
SNP_77344_A_94519	NW_004516007.1	scaffold574	94519	CC	TT	TT	INTERGENIC			
SNP_77345_A_94530	NW_004516007.1	scaffold574	94530	GG	TT	TT	INTERGENIC			
SNP_77346_A_94532	NW_004516007.1	scaffold574	94532	TT	AA	AA	INTERGENIC			
SNP_77347_A_47286	NW_004516008.1	scaffold575	47286	TT	CC	CC	INTERGENIC			
SNP_77348_A_47707	NW_004516008.1	scaffold575	47707	AA	GG	GG	INTERGENIC			
SNP_77349_A_65002	NW_004516008.1	scaffold575	65002	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77350_A_65101	NW_004516008.1	scaffold575	65101	GG	TT	TT	INTERGENIC			
SNP_77352_A_65182	NW_004516008.1	scaffold575	65182	TT	GG	GG	INTERGENIC			
SNP_77353_A_65237	NW_004516008.1	scaffold575	65237	TT	GG	GG	INTERGENIC			
SNP_77354_A_65246	NW_004516008.1	scaffold575	65246	TT	CC	CC	INTERGENIC			
SNP_77355_A_65375	NW_004516008.1	scaffold575	65375	AA	GG	GG	INTERGENIC			
SNP_77356_A_65442	NW_004516008.1	scaffold575	65442	GG	AA	AA	INTERGENIC			
SNP_77357_A_65466	NW_004516008.1	scaffold575	65466	TT	GG	GG	INTERGENIC			
SNP_77358_A_65563	NW_004516008.1	scaffold575	65563	GG	AA	AA	INTERGENIC			
SNP_77359_A_65696	NW_004516008.1	scaffold575	65696	CC	AA	AA	INTERGENIC			
SNP_77360_A_65784	NW_004516008.1	scaffold575	65784	CC	TT	TT	INTERGENIC			
SNP_77361_A_65842	NW_004516008.1	scaffold575	65842	AA	CC	CC	INTERGENIC			
SNP_77362_A_65847	NW_004516008.1	scaffold575	65847	TT	GG	GG	INTERGENIC			
SNP_77363_A_65882	NW_004516008.1	scaffold575	65882	TT	CC	CC	INTERGENIC			
SNP_77364_A_65973	NW_004516008.1	scaffold575	65973	CC	AA	AA	INTERGENIC			
SNP_77365_A_65992	NW_004516008.1	scaffold575	65992	AA	CC	CC	INTERGENIC			
SNP_77366_A_66388	NW_004516008.1	scaffold575	66388	CC	TT	TT	INTERGENIC			
SNP_77367_A_66415	NW_004516008.1	scaffold575	66415	AA	CC	CC	INTERGENIC			
SNP_77368_A_66450	NW_004516008.1	scaffold575	66450	AA	CC	CC	INTERGENIC			
SNP_77369_A_66494	NW_004516008.1	scaffold575	66494	CC	TT	TT	INTERGENIC			
SNP_77370_A_66529	NW_004516008.1	scaffold575	66529	TT	GG	GG	INTERGENIC			
SNP_77371_A_66624	NW_004516008.1	scaffold575	66624	AA	GG	GG	INTERGENIC			
SNP_77372_A_66626	NW_004516008.1	scaffold575	66626	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77373_A_66644	NW_004516008.1	scaffold575	66644	CC	TT	TT	INTERGENIC			
SNP_77374_A_66685	NW_004516008.1	scaffold575	66685	GG	AA	AA	INTERGENIC			
SNP_77375_A_66697	NW_004516008.1	scaffold575	66697	TT	CC	CC	INTERGENIC			
SNP_77376_A_66729	NW_004516008.1	scaffold575	66729	AA	GG	GG	INTERGENIC			
SNP_77377_A_66764	NW_004516008.1	scaffold575	66764	TT	CC	CC	INTERGENIC			
SNP_77378_A_66775	NW_004516008.1	scaffold575	66775	AA	GG	GG	INTERGENIC			
SNP_77380_A_66864	NW_004516008.1	scaffold575	66864	GG	AA	AA	INTERGENIC			
SNP_77382_A_67047	NW_004516008.1	scaffold575	67047	TT	GG	GG	INTERGENIC			
SNP_77383_A_67296	NW_004516008.1	scaffold575	67296	GG	TT	TT	INTERGENIC			
SNP_77384_A_67333	NW_004516008.1	scaffold575	67333	GG	TT	TT	INTERGENIC			
SNP_77385_A_67363	NW_004516008.1	scaffold575	67363	AA	GG	GG	INTERGENIC			
SNP_77386_A_67375	NW_004516008.1	scaffold575	67375	AA	GG	GG	INTERGENIC			
SNP_77387_A_67636	NW_004516008.1	scaffold575	67636	TT	GG	GG	INTERGENIC			
SNP_77388_A_67637	NW_004516008.1	scaffold575	67637	GG	AA	AA	INTERGENIC			
SNP_77389_A_67724	NW_004516008.1	scaffold575	67724	CC	TT	TT	INTERGENIC			
SNP_77390_A_67751	NW_004516008.1	scaffold575	67751	TT	AA	AA	INTERGENIC			
SNP_77391_A_67766	NW_004516008.1	scaffold575	67766	AA	GG	GG	INTERGENIC			
SNP_77392_A_67790	NW_004516008.1	scaffold575	67790	AA	GG	GG	INTERGENIC			
SNP_77394_A_67889	NW_004516008.1	scaffold575	67889	TT	GG	CC	INTERGENIC			
SNP_77395_A_67932	NW_004516008.1	scaffold575	67932	TT	CC	CC	INTERGENIC			
SNP_77396_A_67973	NW_004516008.1	scaffold575	67973	AA	GG	GG	INTERGENIC			
SNP_77397_A_68015	NW_004516008.1	scaffold575	68015	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77398_A_68048	NW_004516008.1	scaffold575	68048	CC	AA	AA	INTERGENIC			
SNP_77399_A_68062	NW_004516008.1	scaffold575	68062	AA	GG	GG	INTERGENIC			
SNP_77400_A_68063	NW_004516008.1	scaffold575	68063	AA	GG	GG	INTERGENIC			
SNP_77401_A_68088	NW_004516008.1	scaffold575	68088	TT	AA	AA	INTERGENIC			
SNP_77402_A_68105	NW_004516008.1	scaffold575	68105	AA	TT	TT	INTERGENIC			
SNP_77403_A_69569	NW_004516008.1	scaffold575	69569	CC	TT	TT	INTERGENIC			
SNP_77404_A_69584	NW_004516008.1	scaffold575	69584	AA	CC	CC	INTERGENIC			
SNP_77405_A_71470	NW_004516008.1	scaffold575	71470	CC	TT	TT	INTERGENIC			
SNP_77406_A_71592	NW_004516008.1	scaffold575	71592	CC	TT	TT	INTERGENIC			
SNP_77407_A_71665	NW_004516008.1	scaffold575	71665	GG	AA	AA	INTERGENIC			
SNP_77408_A_73662	NW_004516008.1	scaffold575	73662	CC	TT	TT	INTERGENIC			
SNP_77409_A_73677	NW_004516008.1	scaffold575	73677	CC	AA	AA	INTERGENIC			
SNP_77410_A_73992	NW_004516008.1	scaffold575	73992	TT	CC	CC	INTERGENIC			
SNP_77411_A_82372	NW_004516008.1	scaffold575	82372	GG	AA	AA	INTERGENIC			
SNP_77412_A_82540	NW_004516008.1	scaffold575	82540	GG	AA	AA	INTERGENIC			
SNP_77414_A_82643	NW_004516008.1	scaffold575	82643	AA	GG	GG	INTERGENIC			
SNP_77415_A_82655	NW_004516008.1	scaffold575	82655	CC	TT	TT	INTERGENIC			
SNP_77416_A_82667	NW_004516008.1	scaffold575	82667	AA	GG	GG	INTERGENIC			
SNP_77417_A_82772	NW_004516008.1	scaffold575	82772	AA	GG	GG	INTERGENIC			
SNP_77418_A_82776	NW_004516008.1	scaffold575	82776	CC	GG	GG	INTERGENIC			
SNP_77419_A_82882	NW_004516008.1	scaffold575	82882	TT	GG	GG	INTERGENIC			
SNP_77420_A_82973	NW_004516008.1	scaffold575	82973	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77421_A_83080	NW_004516008.1	scaffold575	83080	AA	GG	GG	INTERGENIC		
SNP_77422_A_83081	NW_004516008.1	scaffold575	83081	AA	GG	GG	INTERGENIC		
SNP_77423_A_84943	NW_004516008.1	scaffold575	84943	GG	AA	AA	DRR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_77424_A_89711	NW_004516008.1	scaffold575	89711	GG	TT	TT	INTERGENIC		
SNP_77425_A_89883	NW_004516008.1	scaffold575	89883	TT	GG	GG	INTERGENIC		
SNP_77426_A_89903	NW_004516008.1	scaffold575	89903	TT	AA	AA	INTERGENIC		
SNP_77428_A_89974	NW_004516008.1	scaffold575	89974	CC	TT	TT	INTERGENIC		
SNP_77429_A_90084	NW_004516008.1	scaffold575	90084	GG	AA	AA	INTERGENIC		
SNP_77430_A_90115	NW_004516008.1	scaffold575	90115	TT	GG	GG	INTERGENIC		
SNP_77431_A_90151	NW_004516008.1	scaffold575	90151	TT	CC	CC	INTERGENIC		
SNP_77433_A_90491	NW_004516008.1	scaffold575	90491	TT	CC	CC	INTERGENIC		
SNP_77434_A_90926	NW_004516008.1	scaffold575	90926	GG	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77435_A_90959	NW_004516008.1	scaffold575	90959	TT	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77437_A_91159	NW_004516008.1	scaffold575	91159	GG	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77438_A_91197	NW_004516008.1	scaffold575	91197	GG	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77439_A_91247	NW_004516008.1	scaffold575	91247	TT	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77440_A_91253	NW_004516008.1	scaffold575	91253	CC	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77441_A_92155	NW_004516008.1	scaffold575	92155	AA	GG	GG	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77442_A_92157	NW_004516008.1	scaffold575	92157	AA	GG	GG	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77443_A_92163	NW_004516008.1	scaffold575	92163	TT	GG	GG	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77444_A_92184	NW_004516008.1	scaffold575	92184	GG	CC	CC	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77445_A_92187	NW_004516008.1	scaffold575	92187	CC	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77446_A_92202	NW_004516008.1	scaffold575	92202	TT	CC	CC	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77447_A_92211	NW_004516008.1	scaffold575	92211	GG	AA	AA	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77448_A_92748	NW_004516008.1	scaffold575	92748	TT	GG	GG	URR	101498828	ABC transporter B family member 26, chloroplastic-like
SNP_77449_A_92798	NW_004516008.1	scaffold575	92798	AA	TT	TT	INTERGENIC		
SNP_77450_A_92804	NW_004516008.1	scaffold575	92804	TT	CC	CC	INTERGENIC		
SNP_77451_A_92840	NW_004516008.1	scaffold575	92840	TT	CC	CC	INTERGENIC		
SNP_77452_A_92864	NW_004516008.1	scaffold575	92864	TT	GG	GG	INTERGENIC		
SNP_77453_A_92999	NW_004516008.1	scaffold575	92999	TT	CC	CC	INTERGENIC		
SNP_77454_A_93030	NW_004516008.1	scaffold575	93030	AA	GG	GG	INTERGENIC		
SNP_77455_A_96353	NW_004516008.1	scaffold575	96353	CC	TT	TT	INTERGENIC		
SNP_77456_A_96361	NW_004516008.1	scaffold575	96361	CC	TT	TT	INTERGENIC		
SNP_77457_A_96366	NW_004516008.1	scaffold575	96366	GG	AA	AA	INTERGENIC		
SNP_77458_A_96400	NW_004516008.1	scaffold575	96400	GG	AA	AA	INTERGENIC		
SNP_77459_A_96430	NW_004516008.1	scaffold575	96430	CC	AA	AA	INTERGENIC		
SNP_77460_A_96561	NW_004516008.1	scaffold575	96561	AA	CC	CC	INTERGENIC		
SNP_77461_A_98447	NW_004516008.1	scaffold575	98447	GG	AA	AA	INTERGENIC		
SNP_77462_A_98481	NW_004516008.1	scaffold575	98481	AA	GG	GG	INTERGENIC		
SNP_77463_A_98491	NW_004516008.1	scaffold575	98491	GG	AA	AA	INTERGENIC		
SNP_77464_A_98557	NW_004516008.1	scaffold575	98557	CC	TT	TT	INTERGENIC		
SNP_77465_A_98560	NW_004516008.1	scaffold575	98560	GG	TT	TT	INTERGENIC		
SNP_77466_A_98598	NW_004516008.1	scaffold575	98598	TT	GG	GG	INTERGENIC		
SNP_77467_A_98610	NW_004516008.1	scaffold575	98610	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77468_A_98734	NW_004516008.1	scaffold575	98734	GG	AA	AA	INTERGENIC			
SNP_77469_A_98754	NW_004516008.1	scaffold575	98754	AA	GG	GG	INTERGENIC			
SNP_77471_A_98888	NW_004516008.1	scaffold575	98888	AA	TT	TT	INTERGENIC			
SNP_77472_A_98901	NW_004516008.1	scaffold575	98901	AA	GG	GG	INTERGENIC			
SNP_77473_A_98910	NW_004516008.1	scaffold575	98910	TT	GG	GG	INTERGENIC			
SNP_77474_A_99040	NW_004516008.1	scaffold575	99040	AA	GG	GG	INTERGENIC			
SNP_77475_A_99070	NW_004516008.1	scaffold575	99070	TT	CC	CC	INTERGENIC			
SNP_77476_A_99119	NW_004516008.1	scaffold575	99119	TT	AA	AA	INTERGENIC			
SNP_77477_A_99120	NW_004516008.1	scaffold575	99120	TT	GG	GG	INTERGENIC			
SNP_77478_A_99124	NW_004516008.1	scaffold575	99124	AA	CC	CC	INTERGENIC			
SNP_77479_A_99129	NW_004516008.1	scaffold575	99129	TT	CC	CC	INTERGENIC			
SNP_77480_A_99133	NW_004516008.1	scaffold575	99133	CC	TT	TT	INTERGENIC			
SNP_77481_A_99155	NW_004516008.1	scaffold575	99155	TT	CC	CC	INTERGENIC			
SNP_77482_A_99173	NW_004516008.1	scaffold575	99173	TT	CC	CC	INTERGENIC			
SNP_77484_A_99205	NW_004516008.1	scaffold575	99205	AA	GG	GG	INTERGENIC			
SNP_77485_A_99320	NW_004516008.1	scaffold575	99320	AA	GG	GG	INTERGENIC			
SNP_77486_A_99375	NW_004516008.1	scaffold575	99375	AA	GG	GG	INTERGENIC			
SNP_77487_A_99381	NW_004516008.1	scaffold575	99381	CC	TT	TT	INTERGENIC			
SNP_77488_A_99481	NW_004516008.1	scaffold575	99481	GG	TT	TT	INTERGENIC			
SNP_77489_A_99668	NW_004516008.1	scaffold575	99668	TT	CC	CC	INTERGENIC			
SNP_77490_A_99728	NW_004516008.1	scaffold575	99728	AA	GG	GG	INTERGENIC			
SNP_77491_A_99762	NW_004516008.1	scaffold575	99762	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77492_A_99766	NW_004516008.1	scaffold575	99766	TT	CC	CC	INTERGENIC			
SNP_77493_A_99809	NW_004516008.1	scaffold575	99809	AA	GG	GG	INTERGENIC			
SNP_77494_A_99810	NW_004516008.1	scaffold575	99810	AA	GG	GG	INTERGENIC			
SNP_77495_A_99825	NW_004516008.1	scaffold575	99825	AA	GG	GG	INTERGENIC			
SNP_77496_A_99867	NW_004516008.1	scaffold575	99867	GG	AA	AA	INTERGENIC			
SNP_77497_A_99882	NW_004516008.1	scaffold575	99882	AA	CC	CC	INTERGENIC			
SNP_77498_A_99924	NW_004516008.1	scaffold575	99924	TT	GG	GG	INTERGENIC			
SNP_77499_A_99925	NW_004516008.1	scaffold575	99925	AA	CC	CC	INTERGENIC			
SNP_77500_A_99955	NW_004516008.1	scaffold575	99955	CC	TT	TT	INTERGENIC			
SNP_77501_A_99959	NW_004516008.1	scaffold575	99959	AA	GG	GG	INTERGENIC			
SNP_77502_A_99980	NW_004516008.1	scaffold575	99980	TT	AA	AA	INTERGENIC			
SNP_77503_A_100001	NW_004516008.1	scaffold575	100001	AA	CC	CC	INTERGENIC			
SNP_77504_A_100023	NW_004516008.1	scaffold575	100023	AA	GG	GG	INTERGENIC			
SNP_77505_A_100064	NW_004516008.1	scaffold575	100064	CC	TT	TT	INTERGENIC			
SNP_77506_A_100070	NW_004516008.1	scaffold575	100070	CC	GG	GG	INTERGENIC			
SNP_77507_A_100097	NW_004516008.1	scaffold575	100097	TT	CC	CC	INTERGENIC			
SNP_77508_A_100175	NW_004516008.1	scaffold575	100175	AA	GG	GG	INTERGENIC			
SNP_77509_A_100191	NW_004516008.1	scaffold575	100191	AA	CC	CC	INTERGENIC			
SNP_77510_A_100197	NW_004516008.1	scaffold575	100197	TT	CC	CC	INTERGENIC			
SNP_77511_A_100200	NW_004516008.1	scaffold575	100200	AA	GG	GG	INTERGENIC			
SNP_77512_A_100227	NW_004516008.1	scaffold575	100227	CC	AA	AA	INTERGENIC			
SNP_77513_A_100278	NW_004516008.1	scaffold575	100278	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77514_A_100297	NW_004516008.1	scaffold575	100297	AA	CC	CC	INTERGENIC			
SNP_77515_A_100353	NW_004516008.1	scaffold575	100353	TT	GG	GG	INTERGENIC			
SNP_77516_A_100391	NW_004516008.1	scaffold575	100391	AA	CC	CC	INTERGENIC			
SNP_77517_A_100481	NW_004516008.1	scaffold575	100481	TT	CC	CC	INTERGENIC			
SNP_77518_A_100551	NW_004516008.1	scaffold575	100551	TT	CC	CC	INTERGENIC			
SNP_77519_A_100576	NW_004516008.1	scaffold575	100576	GG	AA	AA	INTERGENIC			
SNP_77520_A_100603	NW_004516008.1	scaffold575	100603	AA	GG	GG	INTERGENIC			
SNP_77521_A_100611	NW_004516008.1	scaffold575	100611	TT	GG	GG	INTERGENIC			
SNP_77522_A_100619	NW_004516008.1	scaffold575	100619	TT	GG	GG	INTERGENIC			
SNP_77523_A_100632	NW_004516008.1	scaffold575	100632	AA	GG	GG	INTERGENIC			
SNP_77524_A_100639	NW_004516008.1	scaffold575	100639	AA	GG	GG	INTERGENIC			
SNP_77525_A_100648	NW_004516008.1	scaffold575	100648	AA	GG	GG	INTERGENIC			
SNP_77526_A_100709	NW_004516008.1	scaffold575	100709	CC	AA	AA	INTERGENIC			
SNP_77527_A_100983	NW_004516008.1	scaffold575	100983	AA	GG	GG	INTERGENIC			
SNP_77528_A_101000	NW_004516008.1	scaffold575	101000	AA	CC	CC	INTERGENIC			
SNP_77529_A_101011	NW_004516008.1	scaffold575	101011	AA	GG	GG	INTERGENIC			
SNP_77530_A_101032	NW_004516008.1	scaffold575	101032	TT	CC	CC	INTERGENIC			
SNP_77531_A_101056	NW_004516008.1	scaffold575	101056	TT	AA	AA	INTERGENIC			
SNP_77532_A_101129	NW_004516008.1	scaffold575	101129	AA	CC	CC	INTERGENIC			
SNP_77533_A_101132	NW_004516008.1	scaffold575	101132	GG	CC	CC	INTERGENIC			
SNP_77534_A_101175	NW_004516008.1	scaffold575	101175	AA	GG	GG	INTERGENIC			
SNP_77535_A_101180	NW_004516008.1	scaffold575	101180	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77536_A_101188	NW_004516008.1	scaffold575	101188	AA	GG	GG	INTERGENIC			
SNP_77537_A_101340	NW_004516008.1	scaffold575	101340	TT	CC	CC	INTERGENIC			
SNP_77538_A_101439	NW_004516008.1	scaffold575	101439	AA	GG	GG	INTERGENIC			
SNP_77539_A_101443	NW_004516008.1	scaffold575	101443	CC	TT	TT	INTERGENIC			
SNP_77540_A_101492	NW_004516008.1	scaffold575	101492	AA	CC	CC	INTERGENIC			
SNP_77541_A_101530	NW_004516008.1	scaffold575	101530	AA	CC	CC	INTERGENIC			
SNP_77542_A_101539	NW_004516008.1	scaffold575	101539	TT	CC	CC	INTERGENIC			
SNP_77543_A_101540	NW_004516008.1	scaffold575	101540	TT	GG	GG	INTERGENIC			
SNP_77544_A_101544	NW_004516008.1	scaffold575	101544	AA	GG	GG	INTERGENIC			
SNP_77545_A_101546	NW_004516008.1	scaffold575	101546	AA	GG	GG	INTERGENIC			
SNP_77546_A_101565	NW_004516008.1	scaffold575	101565	TT	AA	AA	INTERGENIC			
SNP_77547_A_101586	NW_004516008.1	scaffold575	101586	AA	GG	GG	INTERGENIC			
SNP_77548_A_101595	NW_004516008.1	scaffold575	101595	GG	CC	CC	INTERGENIC			
SNP_77549_A_101598	NW_004516008.1	scaffold575	101598	TT	CC	CC	INTERGENIC			
SNP_77550_A_101640	NW_004516008.1	scaffold575	101640	AA	GG	GG	INTERGENIC			
SNP_77551_A_101643	NW_004516008.1	scaffold575	101643	TT	GG	GG	INTERGENIC			
SNP_77552_A_101654	NW_004516008.1	scaffold575	101654	AA	GG	GG	INTERGENIC			
SNP_77553_A_101711	NW_004516008.1	scaffold575	101711	AA	CC	CC	INTERGENIC			
SNP_77554_A_101718	NW_004516008.1	scaffold575	101718	TT	CC	CC	INTERGENIC			
SNP_77555_A_101737	NW_004516008.1	scaffold575	101737	TT	GG	GG	INTERGENIC			
SNP_77556_A_101744	NW_004516008.1	scaffold575	101744	AA	GG	GG	INTERGENIC			
SNP_77557_A_101755	NW_004516008.1	scaffold575	101755	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77558_A_101760	NW_004516008.1	scaffold575	101760	TT	CC	CC	INTERGENIC			
SNP_77559_A_101836	NW_004516008.1	scaffold575	101836	TT	CC	CC	INTERGENIC			
SNP_77560_A_101851	NW_004516008.1	scaffold575	101851	AA	GG	GG	INTERGENIC			
SNP_77561_A_101899	NW_004516008.1	scaffold575	101899	AA	GG	GG	INTERGENIC			
SNP_77562_A_102097	NW_004516008.1	scaffold575	102097	TT	CC	CC	INTERGENIC			
SNP_77563_A_102108	NW_004516008.1	scaffold575	102108	TT	GG	GG	INTERGENIC			
SNP_77564_A_102122	NW_004516008.1	scaffold575	102122	GG	AA	AA	INTERGENIC			
SNP_77565_A_102155	NW_004516008.1	scaffold575	102155	GG	CC	CC	INTERGENIC			
SNP_77566_A_102204	NW_004516008.1	scaffold575	102204	TT	GG	GG	INTERGENIC			
SNP_77567_A_102213	NW_004516008.1	scaffold575	102213	AA	GG	GG	INTERGENIC			
SNP_77568_A_102904	NW_004516008.1	scaffold575	102904	AA	GG	GG	INTERGENIC			
SNP_77569_A_102908	NW_004516008.1	scaffold575	102908	TT	CC	CC	INTERGENIC			
SNP_77570_A_102922	NW_004516008.1	scaffold575	102922	AA	GG	GG	INTERGENIC			
SNP_77571_A_103116	NW_004516008.1	scaffold575	103116	AA	CC	CC	INTERGENIC			
SNP_77572_A_103125	NW_004516008.1	scaffold575	103125	CC	TT	TT	INTERGENIC			
SNP_77573_A_103144	NW_004516008.1	scaffold575	103144	AA	TT	TT	INTERGENIC			
SNP_77574_A_103153	NW_004516008.1	scaffold575	103153	AA	GG	GG	INTERGENIC			
SNP_77575_A_103194	NW_004516008.1	scaffold575	103194	TT	CC	CC	INTERGENIC			
SNP_77576_A_103196	NW_004516008.1	scaffold575	103196	AA	TT	TT	INTERGENIC			
SNP_77577_A_103197	NW_004516008.1	scaffold575	103197	TT	CC	CC	INTERGENIC			
SNP_77578_A_103227	NW_004516008.1	scaffold575	103227	AA	GG	GG	INTERGENIC			
SNP_77580_A_103301	NW_004516008.1	scaffold575	103301	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77581_A_103428	NW_004516008.1	scaffold575	103428	AA	CC	CC	INTERGENIC		
SNP_77582_A_103456	NW_004516008.1	scaffold575	103456	TT	CC	CC	INTERGENIC		
SNP_77583_A_103457	NW_004516008.1	scaffold575	103457	AA	GG	GG	INTERGENIC		
SNP_77584_A_103565	NW_004516008.1	scaffold575	103565	AA	GG	GG	INTERGENIC		
SNP_77585_A_103567	NW_004516008.1	scaffold575	103567	CC	TT	TT	INTERGENIC		
SNP_77586_A_103629	NW_004516008.1	scaffold575	103629	TT	CC	CC	INTERGENIC		
SNP_77588_A_103696	NW_004516008.1	scaffold575	103696	TT	CC	CC	INTERGENIC		
SNP_77589_A_103706	NW_004516008.1	scaffold575	103706	GG	TT	TT	INTERGENIC		
SNP_77590_A_103708	NW_004516008.1	scaffold575	103708	AA	CC	CC	INTERGENIC		
SNP_77591_A_103711	NW_004516008.1	scaffold575	103711	TT	CC	CC	INTERGENIC		
SNP_77592_A_103750	NW_004516008.1	scaffold575	103750	AA	GG	GG	INTERGENIC		
SNP_77593_A_103799	NW_004516008.1	scaffold575	103799	TT	GG	GG	INTERGENIC		
SNP_77595_A_103825	NW_004516008.1	scaffold575	103825	TT	GG	GG	INTERGENIC		
SNP_77596_A_104015	NW_004516008.1	scaffold575	104015	AA	GG	GG	INTERGENIC		
SNP_77597_A_104035	NW_004516008.1	scaffold575	104035	TT	CC	CC	INTERGENIC		
SNP_77598_A_104076	NW_004516008.1	scaffold575	104076	TT	CC	CC	INTERGENIC		
SNP_77599_A_104170	NW_004516008.1	scaffold575	104170	TT	CC	CC	INTERGENIC		
SNP_77600_A_104196	NW_004516008.1	scaffold575	104196	TT	CC	CC	DRR	101499147	Unknown function
SNP_77601_A_104337	NW_004516008.1	scaffold575	104337	AA	CC	CC	DRR	101499147	Unknown function
SNP_77602_A_104355	NW_004516008.1	scaffold575	104355	TT	GG	GG	DRR	101499147	Unknown function
SNP_77603_A_104372	NW_004516008.1	scaffold575	104372	TT	CC	CC	DRR	101499147	Unknown function
SNP_77604_A_104384	NW_004516008.1	scaffold575	104384	AA	GG	GG	DRR	101499147	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77605_A_104398	NW_004516008.1	scaffold575	104398	CC	TT	TT	DRR	101499147	Unknown function
SNP_77606_A_104417	NW_004516008.1	scaffold575	104417	AA	GG	GG	DRR	101499147	Unknown function
SNP_77607_A_104437	NW_004516008.1	scaffold575	104437	AA	CC	CC	DRR	101499147	Unknown function
SNP_77608_A_104441	NW_004516008.1	scaffold575	104441	AA	GG	GG	DRR	101499147	Unknown function
SNP_77609_A_104456	NW_004516008.1	scaffold575	104456	AA	CC	CC	DRR	101499147	Unknown function
SNP_77610_A_106305	NW_004516008.1	scaffold575	106305	TT	CC	CC	URR	101499147	Unknown function
SNP_77611_A_106335	NW_004516008.1	scaffold575	106335	AA	GG	GG	URR	101499147	Unknown function
SNP_77612_A_107143	NW_004516008.1	scaffold575	107143	AA	CC	CC	URR	101499147	Unknown function
SNP_77613_A_109689	NW_004516008.1	scaffold575	109689	GG	TT	TT	INTERGENIC		
SNP_77614_A_109787	NW_004516008.1	scaffold575	109787	CC	TT	TT	INTERGENIC		
SNP_77615_A_109890	NW_004516008.1	scaffold575	109890	TT	AA	AA	INTERGENIC		
SNP_77616_A_109941	NW_004516008.1	scaffold575	109941	TT	CC	CC	INTERGENIC		
SNP_77617_A_109949	NW_004516008.1	scaffold575	109949	TT	GG	GG	INTERGENIC		
SNP_77618_A_109969	NW_004516008.1	scaffold575	109969	AA	TT	TT	INTERGENIC		
SNP_77619_A_109987	NW_004516008.1	scaffold575	109987	CC	TT	TT	INTERGENIC		
SNP_77620_A_110006	NW_004516008.1	scaffold575	110006	CC	AA	AA	INTERGENIC		
SNP_77621_A_110068	NW_004516008.1	scaffold575	110068	AA	CC	CC	INTERGENIC		
SNP_77622_A_110156	NW_004516008.1	scaffold575	110156	TT	CC	CC	INTERGENIC		
SNP_77623_A_110229	NW_004516008.1	scaffold575	110229	CC	TT	TT	INTERGENIC		
SNP_77624_A_110239	NW_004516008.1	scaffold575	110239	TT	CC	CC	INTERGENIC		
SNP_77625_A_110242	NW_004516008.1	scaffold575	110242	TT	CC	CC	INTERGENIC		
SNP_77626_A_110280	NW_004516008.1	scaffold575	110280	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77627_A_110308	NW_004516008.1	scaffold575	110308	AA	CC	CC	INTERGENIC			
SNP_77628_A_110362	NW_004516008.1	scaffold575	110362	AA	GG	GG	INTERGENIC			
SNP_77629_A_110442	NW_004516008.1	scaffold575	110442	AA	CC	CC	INTERGENIC			
SNP_77630_A_110466	NW_004516008.1	scaffold575	110466	AA	CC	CC	INTERGENIC			
SNP_77631_A_110481	NW_004516008.1	scaffold575	110481	AA	GG	GG	INTERGENIC			
SNP_77632_A_110505	NW_004516008.1	scaffold575	110505	TT	GG	GG	INTERGENIC			
SNP_77634_A_110519	NW_004516008.1	scaffold575	110519	TT	CC	CC	INTERGENIC			
SNP_77635_A_110521	NW_004516008.1	scaffold575	110521	TT	AA	AA	INTERGENIC			
SNP_77636_A_110581	NW_004516008.1	scaffold575	110581	AA	CC	CC	INTERGENIC			
SNP_77637_A_110605	NW_004516008.1	scaffold575	110605	AA	CC	CC	INTERGENIC			
SNP_77638_A_110620	NW_004516008.1	scaffold575	110620	AA	GG	GG	INTERGENIC			
SNP_77639_A_110644	NW_004516008.1	scaffold575	110644	TT	GG	GG	INTERGENIC			
SNP_77640_A_110660	NW_004516008.1	scaffold575	110660	TT	CC	CC	INTERGENIC			
SNP_77641_A_110663	NW_004516008.1	scaffold575	110663	TT	CC	CC	INTERGENIC			
SNP_77642_A_110753	NW_004516008.1	scaffold575	110753	AA	GG	GG	INTERGENIC			
SNP_77643_A_110759	NW_004516008.1	scaffold575	110759	TT	CC	CC	INTERGENIC			
SNP_77644_A_110765	NW_004516008.1	scaffold575	110765	TT	CC	CC	INTERGENIC			
SNP_77645_A_110772	NW_004516008.1	scaffold575	110772	TT	GG	GG	INTERGENIC			
SNP_77646_A_110830	NW_004516008.1	scaffold575	110830	TT	AA	AA	INTERGENIC			
SNP_77647_A_110886	NW_004516008.1	scaffold575	110886	TT	CC	CC	INTERGENIC			
SNP_77648_A_110910	NW_004516008.1	scaffold575	110910	TT	CC	CC	INTERGENIC			
SNP_77649_A_110920	NW_004516008.1	scaffold575	110920	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77650_A_110949	NW_004516008.1	scaffold575	110949	CC	TT	TT	INTERGENIC			
SNP_77651_A_111000	NW_004516008.1	scaffold575	111000	TT	CC	CC	INTERGENIC			
SNP_77652_A_111030	NW_004516008.1	scaffold575	111030	TT	CC	CC	INTERGENIC			
SNP_77653_A_111035	NW_004516008.1	scaffold575	111035	TT	CC	CC	INTERGENIC			
SNP_77654_A_111056	NW_004516008.1	scaffold575	111056	AA	GG	GG	INTERGENIC			
SNP_77655_A_111135	NW_004516008.1	scaffold575	111135	AA	GG	GG	INTERGENIC			
SNP_77656_A_111178	NW_004516008.1	scaffold575	111178	CC	AA	AA	INTERGENIC			
SNP_77657_A_111188	NW_004516008.1	scaffold575	111188	TT	CC	CC	INTERGENIC			
SNP_77658_A_111193	NW_004516008.1	scaffold575	111193	AA	GG	GG	INTERGENIC			
SNP_77659_A_111203	NW_004516008.1	scaffold575	111203	AA	GG	GG	INTERGENIC			
SNP_77660_A_111205	NW_004516008.1	scaffold575	111205	AA	GG	GG	INTERGENIC			
SNP_77661_A_111235	NW_004516008.1	scaffold575	111235	GG	TT	TT	INTERGENIC			
SNP_77662_A_111239	NW_004516008.1	scaffold575	111239	TT	CC	CC	INTERGENIC			
SNP_77663_A_111240	NW_004516008.1	scaffold575	111240	TT	CC	CC	INTERGENIC			
SNP_77664_A_111295	NW_004516008.1	scaffold575	111295	TT	CC	CC	INTERGENIC			
SNP_77665_A_111313	NW_004516008.1	scaffold575	111313	GG	CC	CC	INTERGENIC			
SNP_77666_A_111338	NW_004516008.1	scaffold575	111338	AA	CC	CC	INTERGENIC			
SNP_77667_A_111354	NW_004516008.1	scaffold575	111354	GG	AA	AA	INTERGENIC			
SNP_77668_A_111356	NW_004516008.1	scaffold575	111356	TT	GG	GG	INTERGENIC			
SNP_77669_A_111381	NW_004516008.1	scaffold575	111381	GG	AA	AA	INTERGENIC			
SNP_77670_A_111396	NW_004516008.1	scaffold575	111396	AA	GG	GG	INTERGENIC			
SNP_77671_A_111408	NW_004516008.1	scaffold575	111408	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77672_A_111507	NW_004516008.1	scaffold575	111507	TT	AA	AA	INTERGENIC			
SNP_77673_A_111513	NW_004516008.1	scaffold575	111513	AA	CC	CC	INTERGENIC			
SNP_77674_A_111527	NW_004516008.1	scaffold575	111527	GG	CC	CC	INTERGENIC			
SNP_77675_A_111556	NW_004516008.1	scaffold575	111556	CC	TT	TT	INTERGENIC			
SNP_77676_A_111586	NW_004516008.1	scaffold575	111586	AA	GG	GG	INTERGENIC			
SNP_77678_A_111698	NW_004516008.1	scaffold575	111698	AA	GG	GG	INTERGENIC			
SNP_77679_A_111725	NW_004516008.1	scaffold575	111725	TT	CC	CC	INTERGENIC			
SNP_77680_A_111743	NW_004516008.1	scaffold575	111743	AA	CC	CC	INTERGENIC			
SNP_77681_A_111796	NW_004516008.1	scaffold575	111796	TT	AA	AA	INTERGENIC			
SNP_77682_A_111831	NW_004516008.1	scaffold575	111831	TT	CC	CC	INTERGENIC			
SNP_77683_A_111856	NW_004516008.1	scaffold575	111856	TT	GG	GG	INTERGENIC			
SNP_77684_A_111861	NW_004516008.1	scaffold575	111861	AA	GG	GG	INTERGENIC			
SNP_77685_A_111875	NW_004516008.1	scaffold575	111875	AA	GG	GG	INTERGENIC			
SNP_77686_A_111907	NW_004516008.1	scaffold575	111907	AA	GG	GG	INTERGENIC			
SNP_77687_A_111923	NW_004516008.1	scaffold575	111923	CC	GG	GG	INTERGENIC			
SNP_77688_A_111945	NW_004516008.1	scaffold575	111945	AA	GG	GG	INTERGENIC			
SNP_77689_A_111950	NW_004516008.1	scaffold575	111950	TT	CC	CC	INTERGENIC			
SNP_77690_A_111999	NW_004516008.1	scaffold575	111999	TT	CC	CC	INTERGENIC			
SNP_77691_A_112004	NW_004516008.1	scaffold575	112004	AA	CC	CC	INTERGENIC			
SNP_77692_A_112060	NW_004516008.1	scaffold575	112060	TT	CC	CC	INTERGENIC			
SNP_77693_A_112145	NW_004516008.1	scaffold575	112145	AA	CC	CC	INTERGENIC			
SNP_77694_A_112166	NW_004516008.1	scaffold575	112166	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77695_A_112172	NW_004516008.1	scaffold575	112172	TT	GG	GG	INTERGENIC			
SNP_77696_A_112198	NW_004516008.1	scaffold575	112198	AA	GG	GG	INTERGENIC			
SNP_77697_A_112212	NW_004516008.1	scaffold575	112212	TT	GG	GG	INTERGENIC			
SNP_77698_A_112326	NW_004516008.1	scaffold575	112326	CC	TT	TT	INTERGENIC			
SNP_77699_A_112328	NW_004516008.1	scaffold575	112328	TT	GG	GG	INTERGENIC			
SNP_77700_A_112341	NW_004516008.1	scaffold575	112341	TT	CC	CC	INTERGENIC			
SNP_77701_A_112365	NW_004516008.1	scaffold575	112365	CC	TT	TT	INTERGENIC			
SNP_77702_A_112383	NW_004516008.1	scaffold575	112383	AA	GG	GG	INTERGENIC			
SNP_77703_A_112400	NW_004516008.1	scaffold575	112400	CC	AA	AA	INTERGENIC			
SNP_77704_A_112424	NW_004516008.1	scaffold575	112424	AA	GG	GG	INTERGENIC			
SNP_77705_A_112451	NW_004516008.1	scaffold575	112451	GG	AA	AA	INTERGENIC			
SNP_77706_A_112523	NW_004516008.1	scaffold575	112523	TT	CC	CC	INTERGENIC			
SNP_77707_A_112535	NW_004516008.1	scaffold575	112535	TT	CC	CC	INTERGENIC			
SNP_77708_A_112557	NW_004516008.1	scaffold575	112557	AA	CC	CC	INTERGENIC			
SNP_77709_A_112589	NW_004516008.1	scaffold575	112589	TT	CC	CC	INTERGENIC			
SNP_77710_A_112618	NW_004516008.1	scaffold575	112618	CC	TT	TT	INTERGENIC			
SNP_77711_A_112629	NW_004516008.1	scaffold575	112629	TT	CC	CC	INTERGENIC			
SNP_77712_A_112725	NW_004516008.1	scaffold575	112725	CC	AA	AA	INTERGENIC			
SNP_77713_A_112751	NW_004516008.1	scaffold575	112751	TT	AA	AA	INTERGENIC			
SNP_77714_A_112848	NW_004516008.1	scaffold575	112848	CC	GG	GG	INTERGENIC			
SNP_77715_A_112865	NW_004516008.1	scaffold575	112865	TT	CC	CC	INTERGENIC			
SNP_77716_A_112869	NW_004516008.1	scaffold575	112869	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77717_A_113131	NW_004516008.1	scaffold575	113131	GG	AA	AA	INTERGENIC			
SNP_77718_A_113132	NW_004516008.1	scaffold575	113132	CC	TT	TT	INTERGENIC			
SNP_77719_A_113134	NW_004516008.1	scaffold575	113134	AA	GG	GG	INTERGENIC			
SNP_77720_A_113141	NW_004516008.1	scaffold575	113141	GG	AA	AA	INTERGENIC			
SNP_77721_A_113147	NW_004516008.1	scaffold575	113147	AA	GG	GG	INTERGENIC			
SNP_77722_A_113215	NW_004516008.1	scaffold575	113215	AA	GG	GG	INTERGENIC			
SNP_77726_A_113944	NW_004516008.1	scaffold575	113944	AA	GG	GG	INTERGENIC			
SNP_77727_A_113961	NW_004516008.1	scaffold575	113961	TT	GG	GG	INTERGENIC			
SNP_77728_A_113971	NW_004516008.1	scaffold575	113971	TT	GG	GG	INTERGENIC			
SNP_77729_A_113977	NW_004516008.1	scaffold575	113977	GG	CC	CC	INTERGENIC			
SNP_77730_A_114004	NW_004516008.1	scaffold575	114004	TT	GG	GG	INTERGENIC			
SNP_77731_A_114022	NW_004516008.1	scaffold575	114022	AA	GG	GG	INTERGENIC			
SNP_77732_A_114148	NW_004516008.1	scaffold575	114148	AA	GG	GG	INTERGENIC			
SNP_77733_A_114200	NW_004516008.1	scaffold575	114200	TT	CC	CC	INTERGENIC			
SNP_77734_A_114231	NW_004516008.1	scaffold575	114231	TT	CC	CC	INTERGENIC			
SNP_77735_A_114275	NW_004516008.1	scaffold575	114275	TT	CC	CC	INTERGENIC			
SNP_77736_A_114285	NW_004516008.1	scaffold575	114285	GG	TT	TT	INTERGENIC			
SNP_77737_A_114314	NW_004516008.1	scaffold575	114314	TT	GG	GG	INTERGENIC			
SNP_77738_A_114341	NW_004516008.1	scaffold575	114341	AA	GG	GG	INTERGENIC			
SNP_77739_A_114356	NW_004516008.1	scaffold575	114356	AA	CC	CC	INTERGENIC			
SNP_77740_A_114403	NW_004516008.1	scaffold575	114403	TT	CC	CC	INTERGENIC			
SNP_77741_A_114419	NW_004516008.1	scaffold575	114419	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77742_A_114425	NW_004516008.1	scaffold575	114425	AA	GG	GG	INTERGENIC		
SNP_77743_A_114751	NW_004516008.1	scaffold575	114751	AA	CC	CC	INTERGENIC		
SNP_77744_A_114798	NW_004516008.1	scaffold575	114798	TT	CC	CC	INTERGENIC		
SNP_77745_A_114814	NW_004516008.1	scaffold575	114814	AA	GG	GG	INTERGENIC		
SNP_77746_A_114820	NW_004516008.1	scaffold575	114820	AA	GG	GG	INTERGENIC		
SNP_77747_A_114882	NW_004516008.1	scaffold575	114882	CC	TT	TT	INTERGENIC		
SNP_77748_A_114919	NW_004516008.1	scaffold575	114919	AA	GG	GG	DRR	101499468	Unknown function
SNP_77749_A_114937	NW_004516008.1	scaffold575	114937	TT	CC	CC	DRR	101499468	Unknown function
SNP_77750_A_115113	NW_004516008.1	scaffold575	115113	AA	CC	CC	DRR	101499468	Unknown function
SNP_77751_A_115117	NW_004516008.1	scaffold575	115117	AA	GG	GG	DRR	101499468	Unknown function
SNP_77752_A_115163	NW_004516008.1	scaffold575	115163	TT	AA	AA	DRR	101499468	Unknown function
SNP_77753_A_115171	NW_004516008.1	scaffold575	115171	AA	GG	GG	DRR	101499468	Unknown function
SNP_77754_A_115239	NW_004516008.1	scaffold575	115239	AA	GG	GG	DRR	101499468	Unknown function
SNP_77755_A_115250	NW_004516008.1	scaffold575	115250	AA	GG	GG	DRR	101499468	Unknown function
SNP_77756_A_115255	NW_004516008.1	scaffold575	115255	TT	CC	CC	DRR	101499468	Unknown function
SNP_77757_A_115269	NW_004516008.1	scaffold575	115269	TT	CC	CC	DRR	101499468	Unknown function
SNP_77758_A_115273	NW_004516008.1	scaffold575	115273	AA	GG	GG	DRR	101499468	Unknown function
SNP_77759_A_115298	NW_004516008.1	scaffold575	115298	TT	GG	GG	DRR	101499468	Unknown function
SNP_77760_A_115608	NW_004516008.1	scaffold575	115608	AA	GG	GG	DRR	101499468	Unknown function
SNP_77761_A_115675	NW_004516008.1	scaffold575	115675	AA	GG	GG	DRR	101499468	Unknown function
SNP_77762_A_115693	NW_004516008.1	scaffold575	115693	TT	GG	GG	DRR	101499468	Unknown function
SNP_77763_A_115727	NW_004516008.1	scaffold575	115727	TT	AA	AA	DRR	101499468	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77764_A_115766	NW_004516008.1	scaffold575	115766	TT	GG	GG	DRR	101499468	Unknown function
SNP_77765_A_115770	NW_004516008.1	scaffold575	115770	TT	CC	CC	DRR	101499468	Unknown function
SNP_77766_A_115787	NW_004516008.1	scaffold575	115787	GG	TT	TT	DRR	101499468	Unknown function
SNP_77767_A_115836	NW_004516008.1	scaffold575	115836	TT	CC	CC	DRR	101499468	Unknown function
SNP_77768_A_115844	NW_004516008.1	scaffold575	115844	TT	GG	GG	DRR	101499468	Unknown function
SNP_77769_A_115868	NW_004516008.1	scaffold575	115868	CC	TT	TT	DRR	101499468	Unknown function
SNP_77770_A_115874	NW_004516008.1	scaffold575	115874	TT	CC	CC	DRR	101499468	Unknown function
SNP_77771_A_115940	NW_004516008.1	scaffold575	115940	TT	CC	CC	INTERGENIC		
SNP_77772_A_115990	NW_004516008.1	scaffold575	115990	AA	TT	TT	INTERGENIC		
SNP_77773_A_116019	NW_004516008.1	scaffold575	116019	AA	CC	CC	INTERGENIC		
SNP_77774_A_116070	NW_004516008.1	scaffold575	116070	AA	GG	GG	INTERGENIC		
SNP_77775_A_116086	NW_004516008.1	scaffold575	116086	AA	CC	CC	INTERGENIC		
SNP_77776_A_116139	NW_004516008.1	scaffold575	116139	CC	TT	TT	INTERGENIC		
SNP_77777_A_116157	NW_004516008.1	scaffold575	116157	AA	GG	GG	INTERGENIC		
SNP_77778_A_116228	NW_004516008.1	scaffold575	116228	TT	GG	GG	INTERGENIC		
SNP_77779_A_116236	NW_004516008.1	scaffold575	116236	AA	TT	TT	INTERGENIC		
SNP_77780_A_116260	NW_004516008.1	scaffold575	116260	CC	GG	GG	INTERGENIC		
SNP_77781_A_116320	NW_004516008.1	scaffold575	116320	TT	GG	GG	INTERGENIC		
SNP_77782_A_116364	NW_004516008.1	scaffold575	116364	TT	CC	CC	INTERGENIC		
SNP_77783_A_116365	NW_004516008.1	scaffold575	116365	AA	GG	GG	INTERGENIC		
SNP_77784_A_116381	NW_004516008.1	scaffold575	116381	AA	GG	GG	INTERGENIC		
SNP_77785_A_116391	NW_004516008.1	scaffold575	116391	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77786_A_116432	NW_004516008.1	scaffold575	116432	TT	AA	AA	INTERGENIC		
SNP_77787_A_116451	NW_004516008.1	scaffold575	116451	AA	GG	GG	INTERGENIC		
SNP_77788_A_116466	NW_004516008.1	scaffold575	116466	AA	CC	CC	INTERGENIC		
SNP_77789_A_116467	NW_004516008.1	scaffold575	116467	CC	AA	AA	INTERGENIC		
SNP_77790_A_116499	NW_004516008.1	scaffold575	116499	CC	AA	AA	INTERGENIC		
SNP_77791_A_116500	NW_004516008.1	scaffold575	116500	TT	GG	GG	INTERGENIC		
SNP_77792_A_116502	NW_004516008.1	scaffold575	116502	CC	TT	TT	INTERGENIC		
SNP_77793_A_116508	NW_004516008.1	scaffold575	116508	TT	CC	CC	INTERGENIC		
SNP_77794_A_116509	NW_004516008.1	scaffold575	116509	TT	CC	CC	INTERGENIC		
SNP_77795_A_116846	NW_004516008.1	scaffold575	116846	TT	CC	CC	INTERGENIC		
SNP_77796_A_116864	NW_004516008.1	scaffold575	116864	TT	CC	CC	INTERGENIC		
SNP_77797_A_116879	NW_004516008.1	scaffold575	116879	CC	TT	TT	INTERGENIC		
SNP_77798_A_116880	NW_004516008.1	scaffold575	116880	AA	GG	GG	INTERGENIC		
SNP_77799_A_116925	NW_004516008.1	scaffold575	116925	AA	GG	GG	INTERGENIC		
SNP_77800_A_116957	NW_004516008.1	scaffold575	116957	AA	CC	CC	INTERGENIC		
SNP_77801_A_116972	NW_004516008.1	scaffold575	116972	AA	TT	TT	INTERGENIC		
SNP_77802_A_116978	NW_004516008.1	scaffold575	116978	TT	CC	CC	INTERGENIC		
SNP_77803_A_116989	NW_004516008.1	scaffold575	116989	TT	GG	GG	URR	101499468	Unknown function
SNP_77804_A_117063	NW_004516008.1	scaffold575	117063	AA	GG	GG	URR	101499468	Unknown function
SNP_77805_A_117080	NW_004516008.1	scaffold575	117080	TT	CC	CC	URR	101499468	Unknown function
SNP_77806_A_117098	NW_004516008.1	scaffold575	117098	CC	TT	TT	URR	101499468	Unknown function
SNP_77807_A_117144	NW_004516008.1	scaffold575	117144	AA	GG	GG	URR	101499468	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77808_A_117167	NW_004516008.1	scaffold575	117167	TT	CC	CC	URR	101499468	Unknown function
SNP_77809_A_117186	NW_004516008.1	scaffold575	117186	AA	GG	GG	URR	101499468	Unknown function
SNP_77810_A_117187	NW_004516008.1	scaffold575	117187	AA	TT	TT	URR	101499468	Unknown function
SNP_77811_A_117213	NW_004516008.1	scaffold575	117213	AA	GG	GG	URR	101499468	Unknown function
SNP_77812_A_117221	NW_004516008.1	scaffold575	117221	AA	GG	GG	URR	101499468	Unknown function
SNP_77813_A_117249	NW_004516008.1	scaffold575	117249	CC	TT	TT	URR	101499468	Unknown function
SNP_77814_A_117282	NW_004516008.1	scaffold575	117282	AA	CC	CC	URR	101499468	Unknown function
SNP_77815_A_117305	NW_004516008.1	scaffold575	117305	GG	AA	AA	URR	101499468	Unknown function
SNP_77816_A_117333	NW_004516008.1	scaffold575	117333	AA	GG	GG	URR	101499468	Unknown function
SNP_77817_A_117338	NW_004516008.1	scaffold575	117338	TT	CC	CC	URR	101499468	Unknown function
SNP_77818_A_117357	NW_004516008.1	scaffold575	117357	CC	TT	TT	URR	101499468	Unknown function
SNP_77819_A_117379	NW_004516008.1	scaffold575	117379	TT	AA	AA	URR	101499468	Unknown function
SNP_77820_A_117386	NW_004516008.1	scaffold575	117386	AA	GG	GG	URR	101499468	Unknown function
SNP_77821_A_117399	NW_004516008.1	scaffold575	117399	AA	GG	GG	URR	101499468	Unknown function
SNP_77822_A_117424	NW_004516008.1	scaffold575	117424	AA	TT	TT	URR	101499468	Unknown function
SNP_77823_A_117437	NW_004516008.1	scaffold575	117437	TT	CC	CC	URR	101499468	Unknown function
SNP_77824_A_117466	NW_004516008.1	scaffold575	117466	TT	GG	GG	URR	101499468	Unknown function
SNP_77825_A_117475	NW_004516008.1	scaffold575	117475	TT	GG	GG	URR	101499468	Unknown function
SNP_77826_A_117532	NW_004516008.1	scaffold575	117532	AA	GG	GG	URR	101499468	Unknown function
SNP_77827_A_117603	NW_004516008.1	scaffold575	117603	GG	AA	AA	URR	101499468	Unknown function
SNP_77828_A_117616	NW_004516008.1	scaffold575	117616	AA	GG	GG	URR	101499468	Unknown function
SNP_77829_A_117628	NW_004516008.1	scaffold575	117628	TT	GG	GG	URR	101499468	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77830_A_117692	NW_004516008.1	scaffold575	117692	AA	CC	CC	URR	101499468	Unknown function
SNP_77831_A_117701	NW_004516008.1	scaffold575	117701	TT	CC	CC	URR	101499468	Unknown function
SNP_77832_A_117720	NW_004516008.1	scaffold575	117720	AA	CC	CC	URR	101499468	Unknown function
SNP_77833_A_117732	NW_004516008.1	scaffold575	117732	TT	GG	GG	URR	101499468	Unknown function
SNP_77834_A_117752	NW_004516008.1	scaffold575	117752	TT	CC	CC	URR	101499468	Unknown function
SNP_77835_A_117763	NW_004516008.1	scaffold575	117763	TT	CC	CC	URR	101499468	Unknown function
SNP_77836_A_117775	NW_004516008.1	scaffold575	117775	AA	TT	TT	URR	101499468	Unknown function
SNP_77837_A_117834	NW_004516008.1	scaffold575	117834	TT	CC	CC	URR	101499468	Unknown function
SNP_77838_A_117865	NW_004516008.1	scaffold575	117865	TT	GG	GG	URR	101499468	Unknown function
SNP_77839_A_117900	NW_004516008.1	scaffold575	117900	AA	GG	GG	URR	101499468	Unknown function
SNP_77840_A_117911	NW_004516008.1	scaffold575	117911	AA	GG	GG	URR	101499468	Unknown function
SNP_77841_A_117964	NW_004516008.1	scaffold575	117964	AA	CC	CC	URR	101499468	Unknown function
SNP_77842_A_117999	NW_004516008.1	scaffold575	117999	AA	CC	CC	URR	101499468	Unknown function
SNP_77843_A_118014	NW_004516008.1	scaffold575	118014	AA	GG	GG	URR	101499468	Unknown function
SNP_77844_A_118141	NW_004516008.1	scaffold575	118141	AA	GG	GG	URR	101499468	Unknown function
SNP_77845_A_118153	NW_004516008.1	scaffold575	118153	TT	CC	CC	URR	101499468	Unknown function
SNP_77846_A_118180	NW_004516008.1	scaffold575	118180	AA	GG	GG	URR	101499468	Unknown function
SNP_77847_A_118188	NW_004516008.1	scaffold575	118188	AA	GG	GG	URR	101499468	Unknown function
SNP_77848_A_118338	NW_004516008.1	scaffold575	118338	TT	CC	CC	URR	101499468	Unknown function
SNP_77849_A_118525	NW_004516008.1	scaffold575	118525	AA	GG	GG	URR	101499468	Unknown function
SNP_77850_A_119951	NW_004516008.1	scaffold575	119951	AA	GG	GG	DRR	101499770	Unknown function
SNP_77851_A_120111	NW_004516008.1	scaffold575	120111	AA	GG	GG	DRR	101499770	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77852_A_120139	NW_004516008.1	scaffold575	120139	TT	CC	CC	DRR	101499770	Unknown function
SNP_77853_A_120184	NW_004516008.1	scaffold575	120184	AA	GG	GG	DRR	101499770	Unknown function
SNP_77854_A_120187	NW_004516008.1	scaffold575	120187	TT	GG	GG	DRR	101499770	Unknown function
SNP_77855_A_120201	NW_004516008.1	scaffold575	120201	AA	CC	CC	DRR	101499770	Unknown function
SNP_77856_A_120203	NW_004516008.1	scaffold575	120203	TT	CC	CC	DRR	101499770	Unknown function
SNP_77857_A_120270	NW_004516008.1	scaffold575	120270	AA	CC	CC	NON_SYNONYMOUS_CODING	101499770	Unknown function
SNP_77858_A_120501	NW_004516008.1	scaffold575	120501	TT	CC	CC	NON_SYNONYMOUS_CODING	101499770	Unknown function
SNP_77859_A_121595	NW_004516008.1	scaffold575	121595	GG	AA	AA	URR	101499770	Unknown function
SNP_77860_A_121613	NW_004516008.1	scaffold575	121613	TT	CC	CC	URR	101499770	Unknown function
SNP_77861_A_121624	NW_004516008.1	scaffold575	121624	GG	AA	AA	URR	101499770	Unknown function
SNP_77862_A_121689	NW_004516008.1	scaffold575	121689	CC	AA	AA	URR	101499770	Unknown function
SNP_77863_A_121717	NW_004516008.1	scaffold575	121717	CC	TT	TT	URR	101499770	Unknown function
SNP_77864_A_121728	NW_004516008.1	scaffold575	121728	AA	GG	GG	URR	101499770	Unknown function
SNP_77865_A_121741	NW_004516008.1	scaffold575	121741	GG	AA	AA	URR	101499770	Unknown function
SNP_77866_A_121867	NW_004516008.1	scaffold575	121867	GG	TT	TT	URR	101499770	Unknown function
SNP_77867_A_121874	NW_004516008.1	scaffold575	121874	TT	CC	CC	URR	101499770	Unknown function
SNP_77868_A_121879	NW_004516008.1	scaffold575	121879	CC	TT	TT	URR	101499770	Unknown function
SNP_77869_A_121910	NW_004516008.1	scaffold575	121910	CC	AA	AA	URR	101499770	Unknown function
SNP_77870_A_121914	NW_004516008.1	scaffold575	121914	TT	CC	CC	URR	101499770	Unknown function
SNP_77871_A_121963	NW_004516008.1	scaffold575	121963	TT	AA	AA	URR	101499770	Unknown function
SNP_77872_A_122019	NW_004516008.1	scaffold575	122019	AA	GG	GG	URR	101499770	Unknown function
SNP_77873_A_122056	NW_004516008.1	scaffold575	122056	AA	CC	CC	URR	101499770	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_77874_A_122059	NW_004516008.1	scaffold575	122059	TT	CC	CC	URR	101499770	Unknown function
SNP_77875_A_122061	NW_004516008.1	scaffold575	122061	TT	CC	CC	URR	101499770	Unknown function
SNP_77876_A_122067	NW_004516008.1	scaffold575	122067	TT	GG	GG	URR	101499770	Unknown function
SNP_77877_A_122081	NW_004516008.1	scaffold575	122081	GG	CC	CC	URR	101499770	Unknown function
SNP_77878_A_122102	NW_004516008.1	scaffold575	122102	AA	GG	GG	URR	101499770	Unknown function
SNP_77879_A_122121	NW_004516008.1	scaffold575	122121	TT	CC	CC	URR	101499770	Unknown function
SNP_77880_A_122179	NW_004516008.1	scaffold575	122179	TT	GG	GG	URR	101499770	Unknown function
SNP_77881_A_122366	NW_004516008.1	scaffold575	122366	AA	GG	GG	URR	101499770	Unknown function
SNP_77882_A_122368	NW_004516008.1	scaffold575	122368	TT	CC	CC	URR	101499770	Unknown function
SNP_77883_A_122409	NW_004516008.1	scaffold575	122409	TT	CC	CC	URR	101499770	Unknown function
SNP_77884_A_122473	NW_004516008.1	scaffold575	122473	GG	CC	CC	URR	101499770	Unknown function
SNP_77885_A_122480	NW_004516008.1	scaffold575	122480	TT	CC	CC	URR	101499770	Unknown function
SNP_77886_A_122487	NW_004516008.1	scaffold575	122487	AA	GG	GG	URR	101499770	Unknown function
SNP_77887_A_122518	NW_004516008.1	scaffold575	122518	AA	CC	CC	URR	101499770	Unknown function
SNP_77888_A_122574	NW_004516008.1	scaffold575	122574	TT	GG	GG	URR	101499770	Unknown function
SNP_77889_A_124053	NW_004516008.1	scaffold575	124053	CC	AA	AA	INTERGENIC		
SNP_77890_A_125217	NW_004516008.1	scaffold575	125217	TT	AA	AA	INTERGENIC		
SNP_77891_A_125245	NW_004516008.1	scaffold575	125245	TT	CC	CC	INTERGENIC		
SNP_77892_A_125299	NW_004516008.1	scaffold575	125299	AA	GG	GG	INTERGENIC		
SNP_77893_A_125301	NW_004516008.1	scaffold575	125301	GG	TT	TT	INTERGENIC		
SNP_77894_A_125327	NW_004516008.1	scaffold575	125327	AA	GG	GG	INTERGENIC		
SNP_77895_A_125368	NW_004516008.1	scaffold575	125368	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77896_A_125384	NW_004516008.1	scaffold575	125384	TT	CC	CC	INTERGENIC			
SNP_77897_A_125400	NW_004516008.1	scaffold575	125400	TT	CC	CC	INTERGENIC			
SNP_77898_A_125413	NW_004516008.1	scaffold575	125413	AA	GG	GG	INTERGENIC			
SNP_77899_A_125448	NW_004516008.1	scaffold575	125448	AA	GG	GG	INTERGENIC			
SNP_77900_A_125449	NW_004516008.1	scaffold575	125449	TT	GG	GG	INTERGENIC			
SNP_77901_A_125466	NW_004516008.1	scaffold575	125466	AA	TT	TT	INTERGENIC			
SNP_77902_A_125492	NW_004516008.1	scaffold575	125492	TT	CC	CC	INTERGENIC			
SNP_77903_A_125518	NW_004516008.1	scaffold575	125518	TT	CC	CC	INTERGENIC			
SNP_77904_A_125519	NW_004516008.1	scaffold575	125519	TT	CC	CC	INTERGENIC			
SNP_77905_A_125531	NW_004516008.1	scaffold575	125531	AA	GG	GG	INTERGENIC			
SNP_77906_A_125543	NW_004516008.1	scaffold575	125543	GG	CC	CC	INTERGENIC			
SNP_77907_A_125553	NW_004516008.1	scaffold575	125553	TT	CC	CC	INTERGENIC			
SNP_77908_A_125561	NW_004516008.1	scaffold575	125561	AA	GG	GG	INTERGENIC			
SNP_77909_A_125582	NW_004516008.1	scaffold575	125582	AA	GG	GG	INTERGENIC			
SNP_77910_A_125599	NW_004516008.1	scaffold575	125599	TT	CC	CC	INTERGENIC			
SNP_77911_A_125604	NW_004516008.1	scaffold575	125604	AA	GG	GG	INTERGENIC			
SNP_77912_A_125612	NW_004516008.1	scaffold575	125612	TT	GG	GG	INTERGENIC			
SNP_77913_A_125654	NW_004516008.1	scaffold575	125654	TT	CC	CC	INTERGENIC			
SNP_77914_A_125684	NW_004516008.1	scaffold575	125684	TT	CC	CC	INTERGENIC			
SNP_77915_A_125742	NW_004516008.1	scaffold575	125742	TT	CC	CC	INTERGENIC			
SNP_77916_A_125748	NW_004516008.1	scaffold575	125748	CC	TT	TT	INTERGENIC			
SNP_77917_A_125760	NW_004516008.1	scaffold575	125760	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77918_A_125762	NW_004516008.1	scaffold575	125762	AA	GG	GG	INTERGENIC			
SNP_77919_A_125802	NW_004516008.1	scaffold575	125802	CC	TT	TT	INTERGENIC			
SNP_77920_A_125841	NW_004516008.1	scaffold575	125841	TT	CC	CC	INTERGENIC			
SNP_77921_A_125866	NW_004516008.1	scaffold575	125866	TT	GG	GG	INTERGENIC			
SNP_77922_A_125876	NW_004516008.1	scaffold575	125876	TT	CC	CC	INTERGENIC			
SNP_77923_A_125905	NW_004516008.1	scaffold575	125905	AA	GG	GG	INTERGENIC			
SNP_77925_A_125914	NW_004516008.1	scaffold575	125914	AA	GG	GG	INTERGENIC			
SNP_77926_A_125985	NW_004516008.1	scaffold575	125985	AA	GG	GG	INTERGENIC			
SNP_77928_A_126000	NW_004516008.1	scaffold575	126000	AA	GG	GG	INTERGENIC			
SNP_77929_A_126042	NW_004516008.1	scaffold575	126042	AA	CC	CC	INTERGENIC			
SNP_77930_A_126053	NW_004516008.1	scaffold575	126053	GG	TT	TT	INTERGENIC			
SNP_77931_A_126058	NW_004516008.1	scaffold575	126058	CC	TT	TT	INTERGENIC			
SNP_77932_A_126118	NW_004516008.1	scaffold575	126118	TT	CC	CC	INTERGENIC			
SNP_77933_A_126155	NW_004516008.1	scaffold575	126155	TT	CC	CC	INTERGENIC			
SNP_77934_A_126164	NW_004516008.1	scaffold575	126164	CC	GG	GG	INTERGENIC			
SNP_77935_A_126175	NW_004516008.1	scaffold575	126175	GG	AA	AA	INTERGENIC			
SNP_77936_A_126255	NW_004516008.1	scaffold575	126255	TT	CC	CC	INTERGENIC			
SNP_77937_A_126258	NW_004516008.1	scaffold575	126258	AA	TT	TT	INTERGENIC			
SNP_77938_A_126260	NW_004516008.1	scaffold575	126260	TT	GG	GG	INTERGENIC			
SNP_77939_A_126345	NW_004516008.1	scaffold575	126345	TT	CC	CC	INTERGENIC			
SNP_77940_A_126379	NW_004516008.1	scaffold575	126379	TT	CC	CC	INTERGENIC			
SNP_77941_A_126393	NW_004516008.1	scaffold575	126393	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77942_A_126407	NW_004516008.1	scaffold575	126407	TT	CC	CC	INTERGENIC			
SNP_77943_A_126409	NW_004516008.1	scaffold575	126409	GG	AA	AA	INTERGENIC			
SNP_77944_A_126517	NW_004516008.1	scaffold575	126517	TT	CC	CC	INTERGENIC			
SNP_77945_A_126518	NW_004516008.1	scaffold575	126518	TT	CC	CC	INTERGENIC			
SNP_77946_A_126549	NW_004516008.1	scaffold575	126549	AA	CC	CC	INTERGENIC			
SNP_77947_A_126582	NW_004516008.1	scaffold575	126582	AA	GG	GG	INTERGENIC			
SNP_77948_A_126604	NW_004516008.1	scaffold575	126604	GG	TT	TT	INTERGENIC			
SNP_77949_A_126609	NW_004516008.1	scaffold575	126609	TT	CC	CC	INTERGENIC			
SNP_77950_A_126651	NW_004516008.1	scaffold575	126651	TT	GG	GG	INTERGENIC			
SNP_77951_A_126718	NW_004516008.1	scaffold575	126718	TT	AA	AA	INTERGENIC			
SNP_77952_A_126759	NW_004516008.1	scaffold575	126759	GG	AA	AA	INTERGENIC			
SNP_77953_A_126803	NW_004516008.1	scaffold575	126803	AA	GG	GG	INTERGENIC			
SNP_77954_A_126809	NW_004516008.1	scaffold575	126809	AA	GG	GG	INTERGENIC			
SNP_77955_A_126816	NW_004516008.1	scaffold575	126816	AA	CC	CC	INTERGENIC			
SNP_77956_A_126819	NW_004516008.1	scaffold575	126819	AA	GG	GG	INTERGENIC			
SNP_77957_A_126846	NW_004516008.1	scaffold575	126846	AA	GG	GG	INTERGENIC			
SNP_77958_A_126860	NW_004516008.1	scaffold575	126860	TT	CC	CC	INTERGENIC			
SNP_77959_A_126875	NW_004516008.1	scaffold575	126875	TT	CC	CC	INTERGENIC			
SNP_77960_A_126882	NW_004516008.1	scaffold575	126882	TT	GG	GG	INTERGENIC			
SNP_77961_A_126886	NW_004516008.1	scaffold575	126886	AA	GG	GG	INTERGENIC			
SNP_77962_A_126937	NW_004516008.1	scaffold575	126937	AA	CC	CC	INTERGENIC			
SNP_77963_A_127005	NW_004516008.1	scaffold575	127005	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77964_A_127027	NW_004516008.1	scaffold575	127027	TT	CC	CC	INTERGENIC			
SNP_77965_A_127030	NW_004516008.1	scaffold575	127030	AA	GG	GG	INTERGENIC			
SNP_77966_A_127031	NW_004516008.1	scaffold575	127031	AA	CC	CC	INTERGENIC			
SNP_77967_A_127077	NW_004516008.1	scaffold575	127077	AA	GG	GG	INTERGENIC			
SNP_77968_A_127135	NW_004516008.1	scaffold575	127135	TT	AA	AA	INTERGENIC			
SNP_77969_A_127291	NW_004516008.1	scaffold575	127291	AA	GG	GG	INTERGENIC			
SNP_77970_A_131225	NW_004516008.1	scaffold575	131225	AA	GG	GG	INTERGENIC			
SNP_77971_A_8143	NW_004516009.1	scaffold577	8143	TT	CC	CC	INTERGENIC			
SNP_77972_A_8154	NW_004516009.1	scaffold577	8154	AA	GG	GG	INTERGENIC			
SNP_77973_A_8565	NW_004516009.1	scaffold577	8565	GG	AA	AA	INTERGENIC			
SNP_77974_A_16818	NW_004516009.1	scaffold577	16818	AA	GG	GG	INTERGENIC			
SNP_77975_A_26690	NW_004516009.1	scaffold577	26690	GG	CC	CC	INTERGENIC			
SNP_77976_A_26858	NW_004516009.1	scaffold577	26858	CC	AA	AA	INTERGENIC			
SNP_77977_A_35253	NW_004516009.1	scaffold577	35253	TT	CC	CC	INTERGENIC			
SNP_77978_A_35307	NW_004516009.1	scaffold577	35307	AA	CC	CC	INTERGENIC			
SNP_77979_A_35342	NW_004516009.1	scaffold577	35342	TT	AA	AA	INTERGENIC			
SNP_77980_A_41037	NW_004516009.1	scaffold577	41037	AA	TT	TT	INTERGENIC			
SNP_77981_A_41147	NW_004516009.1	scaffold577	41147	CC	TT	TT	INTERGENIC			
SNP_77982_A_41529	NW_004516009.1	scaffold577	41529	CC	TT	TT	INTERGENIC			
SNP_77983_A_41531	NW_004516009.1	scaffold577	41531	AA	GG	GG	INTERGENIC			
SNP_77984_A_41532	NW_004516009.1	scaffold577	41532	GG	TT	TT	INTERGENIC			
SNP_77985_A_41533	NW_004516009.1	scaffold577	41533	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_77986_A_41549	NW_004516009.1	scaffold577	41549	TT	GG	GG	INTERGENIC			
SNP_77987_A_41559	NW_004516009.1	scaffold577	41559	TT	CC	CC	INTERGENIC			
SNP_77988_A_41660	NW_004516009.1	scaffold577	41660	CC	AA	AA	INTERGENIC			
SNP_77989_A_41901	NW_004516009.1	scaffold577	41901	AA	GG	GG	INTERGENIC			
SNP_77990_A_42220	NW_004516009.1	scaffold577	42220	GG	AA	AA	INTERGENIC			
SNP_77991_A_42253	NW_004516009.1	scaffold577	42253	GG	AA	AA	INTERGENIC			
SNP_77992_A_42270	NW_004516009.1	scaffold577	42270	TT	GG	GG	INTERGENIC			
SNP_77993_A_42366	NW_004516009.1	scaffold577	42366	TT	CC	CC	INTERGENIC			
SNP_77994_A_42415	NW_004516009.1	scaffold577	42415	GG	CC	CC	INTERGENIC			
SNP_77995_A_42596	NW_004516009.1	scaffold577	42596	AA	GG	GG	INTERGENIC			
SNP_77996_A_47365	NW_004516009.1	scaffold577	47365	CC	GG	GG	INTERGENIC			
SNP_77997_A_55294	NW_004516009.1	scaffold577	55294	AA	GG	GG	INTERGENIC			
SNP_77998_A_55646	NW_004516009.1	scaffold577	55646	CC	AA	AA	INTERGENIC			
SNP_77999_A_56043	NW_004516009.1	scaffold577	56043	AA	TT	TT	INTERGENIC			
SNP_78000_A_56089	NW_004516009.1	scaffold577	56089	CC	AA	AA	INTERGENIC			
SNP_78001_A_64752	NW_004516009.1	scaffold577	64752	TT	GG	GG	INTERGENIC			
SNP_78002_A_64924	NW_004516009.1	scaffold577	64924	CC	GG	GG	INTERGENIC			
SNP_78003_A_64957	NW_004516009.1	scaffold577	64957	CC	GG	GG	INTERGENIC			
SNP_78004_A_65037	NW_004516009.1	scaffold577	65037	AA	GG	GG	INTERGENIC			
SNP_78005_A_65134	NW_004516009.1	scaffold577	65134	GG	CC	CC	INTERGENIC			
SNP_78006_A_65199	NW_004516009.1	scaffold577	65199	GG	AA	AA	INTERGENIC			
SNP_78007_A_66005	NW_004516009.1	scaffold577	66005	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78008_A_69695	NW_004516009.1	scaffold577	69695	CC	AA	AA	INTERGENIC			
SNP_78009_A_69949	NW_004516009.1	scaffold577	69949	TT	CC	CC	INTERGENIC			
SNP_78010_A_69974	NW_004516009.1	scaffold577	69974	CC	TT	TT	INTERGENIC			
SNP_78011_A_70004	NW_004516009.1	scaffold577	70004	AA	CC	CC	INTERGENIC			
SNP_78012_A_70745	NW_004516009.1	scaffold577	70745	CC	AA	AA	INTERGENIC			
SNP_78013_A_70769	NW_004516009.1	scaffold577	70769	AA	GG	GG	INTERGENIC			
SNP_78014_A_74646	NW_004516009.1	scaffold577	74646	AA	CC	CC	INTERGENIC			
SNP_78015_A_74665	NW_004516009.1	scaffold577	74665	GG	AA	AA	INTERGENIC			
SNP_78016_A_81697	NW_004516009.1	scaffold577	81697	CC	TT	TT	INTERGENIC			
SNP_78017_A_84337	NW_004516009.1	scaffold577	84337	AA	TT	TT	INTERGENIC			
SNP_78018_A_106212	NW_004516009.1	scaffold577	106212	TT	CC	CC	INTERGENIC			
SNP_78019_A_106273	NW_004516009.1	scaffold577	106273	CC	TT	TT	INTERGENIC			
SNP_78020_A_106801	NW_004516009.1	scaffold577	106801	CC	TT	TT	INTERGENIC			
SNP_78021_A_111520	NW_004516009.1	scaffold577	111520	AA	TT	TT	INTERGENIC			
SNP_78022_A_111830	NW_004516009.1	scaffold577	111830	TT	CC	CC	INTERGENIC			
SNP_78023_A_111883	NW_004516009.1	scaffold577	111883	GG	AA	AA	INTERGENIC			
SNP_78024_A_111894	NW_004516009.1	scaffold577	111894	AA	GG	GG	INTERGENIC			
SNP_78025_A_121452	NW_004516009.1	scaffold577	121452	CC	AA	AA	INTERGENIC			
SNP_78026_A_121615	NW_004516009.1	scaffold577	121615	AA	GG	GG	INTERGENIC			
SNP_78027_A_121858	NW_004516009.1	scaffold577	121858	GG	AA	AA	INTERGENIC			
SNP_78028_A_2392	NW_004516010.1	scaffold578	2392	TT	CC	CC	INTERGENIC			
SNP_78029_A_2461	NW_004516010.1	scaffold578	2461	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78030_A_2569	NW_004516010.1	scaffold578	2569	TT	CC	CC	INTERGENIC			
SNP_78031_A_2737	NW_004516010.1	scaffold578	2737	TT	CC	CC	INTERGENIC			
SNP_78032_A_3852	NW_004516010.1	scaffold578	3852	CC	AA	AA	INTERGENIC			
SNP_78033_A_4286	NW_004516010.1	scaffold578	4286	CC	AA	AA	INTERGENIC			
SNP_78034_A_7959	NW_004516010.1	scaffold578	7959	AA	GG	GG	INTERGENIC			
SNP_78035_A_8073	NW_004516010.1	scaffold578	8073	TT	GG	GG	INTERGENIC			
SNP_78036_A_11329	NW_004516010.1	scaffold578	11329	GG	TT	TT	INTERGENIC			
SNP_78037_A_11396	NW_004516010.1	scaffold578	11396	TT	CC	CC	INTERGENIC			
SNP_78038_A_11607	NW_004516010.1	scaffold578	11607	GG	AA	AA	INTERGENIC			
SNP_78040_A_11716	NW_004516010.1	scaffold578	11716	GG	CC	CC	INTERGENIC			
SNP_78041_A_11747	NW_004516010.1	scaffold578	11747	TT	AA	AA	INTERGENIC			
SNP_78042_A_11775	NW_004516010.1	scaffold578	11775	TT	GG	GG	INTERGENIC			
SNP_78043_A_11782	NW_004516010.1	scaffold578	11782	CC	TT	TT	INTERGENIC			
SNP_78044_A_19761	NW_004516010.1	scaffold578	19761	GG	AA	AA	INTERGENIC			
SNP_78045_A_19768	NW_004516010.1	scaffold578	19768	GG	CC	CC	INTERGENIC			
SNP_78046_A_19783	NW_004516010.1	scaffold578	19783	AA	TT	TT	INTERGENIC			
SNP_78047_A_19922	NW_004516010.1	scaffold578	19922	CC	GG	GG	INTERGENIC			
SNP_78048_A_19926	NW_004516010.1	scaffold578	19926	AA	GG	GG	INTERGENIC			
SNP_78049_A_19932	NW_004516010.1	scaffold578	19932	AA	CC	CC	INTERGENIC			
SNP_78050_A_19967	NW_004516010.1	scaffold578	19967	CC	TT	TT	INTERGENIC			
SNP_78051_A_19971	NW_004516010.1	scaffold578	19971	GG	AA	AA	INTERGENIC			
SNP_78052_A_20015	NW_004516010.1	scaffold578	20015	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78053_A_20038	NW_004516010.1	scaffold578	20038	GG	AA	AA	INTERGENIC			
SNP_78054_A_20039	NW_004516010.1	scaffold578	20039	AA	GG	GG	INTERGENIC			
SNP_78055_A_20112	NW_004516010.1	scaffold578	20112	GG	AA	AA	INTERGENIC			
SNP_78056_A_20170	NW_004516010.1	scaffold578	20170	GG	AA	AA	INTERGENIC			
SNP_78057_A_20208	NW_004516010.1	scaffold578	20208	GG	AA	AA	INTERGENIC			
SNP_78058_A_20225	NW_004516010.1	scaffold578	20225	GG	AA	AA	INTERGENIC			
SNP_78059_A_20263	NW_004516010.1	scaffold578	20263	TT	GG	GG	INTERGENIC			
SNP_78060_A_20267	NW_004516010.1	scaffold578	20267	TT	CC	CC	INTERGENIC			
SNP_78061_A_20524	NW_004516010.1	scaffold578	20524	GG	TT	TT	INTERGENIC			
SNP_78062_A_20598	NW_004516010.1	scaffold578	20598	CC	AA	AA	INTERGENIC			
SNP_78063_A_20754	NW_004516010.1	scaffold578	20754	AA	TT	TT	INTERGENIC			
SNP_78064_A_20945	NW_004516010.1	scaffold578	20945	AA	GG	GG	INTERGENIC			
SNP_78065_A_20967	NW_004516010.1	scaffold578	20967	CC	GG	GG	INTERGENIC			
SNP_78066_A_26670	NW_004516010.1	scaffold578	26670	TT	CC	CC	INTERGENIC			
SNP_78067_A_33455	NW_004516010.1	scaffold578	33455	CC	TT	TT	INTERGENIC			
SNP_78068_A_33482	NW_004516010.1	scaffold578	33482	TT	CC	CC	INTERGENIC			
SNP_78069_A_33501	NW_004516010.1	scaffold578	33501	AA	GG	GG	INTERGENIC			
SNP_78070_A_37144	NW_004516010.1	scaffold578	37144	AA	GG	GG	INTERGENIC			
SNP_78071_A_37331	NW_004516010.1	scaffold578	37331	AA	CC	CC	INTERGENIC			
SNP_78072_A_37332	NW_004516010.1	scaffold578	37332	AA	CC	CC	INTERGENIC			
SNP_78073_A_37455	NW_004516010.1	scaffold578	37455	CC	TT	TT	INTERGENIC			
SNP_78074_A_37495	NW_004516010.1	scaffold578	37495	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78075_A_37809	NW_004516010.1	scaffold578	37809	TT	GG	GG	INTERGENIC			
SNP_78076_A_37816	NW_004516010.1	scaffold578	37816	AA	TT	TT	INTERGENIC			
SNP_78077_A_37887	NW_004516010.1	scaffold578	37887	CC	GG	GG	INTERGENIC			
SNP_78080_A_53696	NW_004516010.1	scaffold578	53696	TT	CC	CC	INTERGENIC			
SNP_78081_A_63652	NW_004516010.1	scaffold578	63652	GG	AA	AA	INTERGENIC			
SNP_78082_A_63670	NW_004516010.1	scaffold578	63670	TT	GG	GG	INTERGENIC			
SNP_78083_A_63919	NW_004516010.1	scaffold578	63919	AA	GG	GG	INTERGENIC			
SNP_78084_A_63922	NW_004516010.1	scaffold578	63922	CC	AA	AA	INTERGENIC			
SNP_78085_A_1057	NW_004516012.1	scaffold582	1057	AA	TT	TT	INTERGENIC			
SNP_78086_A_1150	NW_004516012.1	scaffold582	1150	AA	CC	CC	INTERGENIC			
SNP_78087_A_1177	NW_004516012.1	scaffold582	1177	TT	CC	CC	INTERGENIC			
SNP_78088_A_1196	NW_004516012.1	scaffold582	1196	GG	AA	AA	INTERGENIC			
SNP_78089_A_12593	NW_004516012.1	scaffold582	12593	TT	GG	GG	INTERGENIC			
SNP_78090_A_13337	NW_004516012.1	scaffold582	13337	AA	GG	GG	INTERGENIC			
SNP_78091_A_13517	NW_004516012.1	scaffold582	13517	TT	CC	CC	INTERGENIC			
SNP_78092_A_13526	NW_004516012.1	scaffold582	13526	AA	GG	GG	INTERGENIC			
SNP_78093_A_13535	NW_004516012.1	scaffold582	13535	TT	CC	CC	INTERGENIC			
SNP_78094_A_13556	NW_004516012.1	scaffold582	13556	GG	AA	AA	INTERGENIC			
SNP_78095_A_16327	NW_004516012.1	scaffold582	16327	TT	CC	CC	INTERGENIC			
SNP_78096_A_16347	NW_004516012.1	scaffold582	16347	AA	CC	CC	INTERGENIC			
SNP_78097_A_24078	NW_004516012.1	scaffold582	24078	TT	GG	GG	INTERGENIC			
SNP_78098_A_24185	NW_004516012.1	scaffold582	24185	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78099_A_24201	NW_004516012.1	scaffold582	24201	AA	GG	GG	INTERGENIC			
SNP_78100_A_24937	NW_004516012.1	scaffold582	24937	AA	TT	TT	INTERGENIC			
SNP_78101_A_24965	NW_004516012.1	scaffold582	24965	GG	CC	CC	INTERGENIC			
SNP_78102_A_25068	NW_004516012.1	scaffold582	25068	CC	TT	TT	INTERGENIC			
SNP_78103_A_25209	NW_004516012.1	scaffold582	25209	CC	TT	TT	INTERGENIC			
SNP_78104_A_25212	NW_004516012.1	scaffold582	25212	AA	TT	TT	INTERGENIC			
SNP_78105_A_29954	NW_004516012.1	scaffold582	29954	AA	GG	GG	INTERGENIC			
SNP_78106_A_30387	NW_004516012.1	scaffold582	30387	CC	GG	GG	INTERGENIC			
SNP_78107_A_30448	NW_004516012.1	scaffold582	30448	AA	CC	CC	INTERGENIC			
SNP_78108_A_30515	NW_004516012.1	scaffold582	30515	CC	GG	GG	INTERGENIC			
SNP_78109_A_30568	NW_004516012.1	scaffold582	30568	CC	TT	TT	INTERGENIC			
SNP_78110_A_30690	NW_004516012.1	scaffold582	30690	AA	TT	TT	INTERGENIC			
SNP_78111_A_377	NW_004516013.1	scaffold583	377	AA	GG	GG	INTERGENIC			
SNP_78112_A_378	NW_004516013.1	scaffold583	378	AA	TT	TT	INTERGENIC			
SNP_78113_A_472	NW_004516013.1	scaffold583	472	AA	CC	CC	INTERGENIC			
SNP_78114_A_478	NW_004516013.1	scaffold583	478	CC	TT	TT	INTERGENIC			
SNP_78115_A_639	NW_004516013.1	scaffold583	639	AA	GG	GG	INTERGENIC			
SNP_78116_A_3956	NW_004516013.1	scaffold583	3956	TT	AA	AA	INTERGENIC			
SNP_78117_A_4097	NW_004516013.1	scaffold583	4097	AA	GG	GG	INTERGENIC			
SNP_78119_A_4168	NW_004516013.1	scaffold583	4168	AA	CC	CC	INTERGENIC			
SNP_78120_A_4187	NW_004516013.1	scaffold583	4187	GG	AA	AA	INTERGENIC			
SNP_78121_A_4326	NW_004516013.1	scaffold583	4326	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78122_A_4330	NW_004516013.1	scaffold583	4330	TT	CC	CC	INTERGENIC			
SNP_78123_A_4342	NW_004516013.1	scaffold583	4342	GG	TT	TT	INTERGENIC			
SNP_78124_A_4348	NW_004516013.1	scaffold583	4348	TT	CC	CC	INTERGENIC			
SNP_78125_A_4369	NW_004516013.1	scaffold583	4369	TT	GG	GG	INTERGENIC			
SNP_78126_A_4400	NW_004516013.1	scaffold583	4400	TT	CC	CC	INTERGENIC			
SNP_78127_A_4458	NW_004516013.1	scaffold583	4458	AA	TT	TT	INTERGENIC			
SNP_78128_A_11110	NW_004516013.1	scaffold583	11110	CC	GG	GG	INTERGENIC			
SNP_78129_A_11263	NW_004516013.1	scaffold583	11263	TT	CC	CC	INTERGENIC			
SNP_78130_A_11289	NW_004516013.1	scaffold583	11289	GG	AA	AA	INTERGENIC			
SNP_78131_A_11300	NW_004516013.1	scaffold583	11300	TT	CC	CC	INTERGENIC			
SNP_78132_A_11302	NW_004516013.1	scaffold583	11302	AA	GG	GG	INTERGENIC			
SNP_78133_A_11382	NW_004516013.1	scaffold583	11382	AA	GG	GG	INTERGENIC			
SNP_78134_A_11390	NW_004516013.1	scaffold583	11390	CC	TT	TT	INTERGENIC			
SNP_78135_A_11410	NW_004516013.1	scaffold583	11410	GG	AA	AA	INTERGENIC			
SNP_78136_A_11447	NW_004516013.1	scaffold583	11447	CC	TT	TT	INTERGENIC			
SNP_78137_A_11465	NW_004516013.1	scaffold583	11465	CC	TT	TT	INTERGENIC			
SNP_78138_A_11612	NW_004516013.1	scaffold583	11612	TT	CC	CC	INTERGENIC			
SNP_78139_A_11955	NW_004516013.1	scaffold583	11955	AA	TT	TT	INTERGENIC			
SNP_78140_A_17355	NW_004516013.1	scaffold583	17355	TT	CC	CC	INTERGENIC			
SNP_78141_A_22786	NW_004516013.1	scaffold583	22786	AA	TT	TT	INTERGENIC			
SNP_78142_A_26301	NW_004516013.1	scaffold583	26301	GG	TT	TT	INTERGENIC			
SNP_78143_A_45978	NW_004516013.1	scaffold583	45978	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78144_A_45993	NW_004516013.1	scaffold583	45993	AA	GG	GG	INTERGENIC			
SNP_78145_A_45994	NW_004516013.1	scaffold583	45994	GG	AA	AA	INTERGENIC			
SNP_78146_A_46068	NW_004516013.1	scaffold583	46068	TT	CC	CC	INTERGENIC			
SNP_78147_A_46086	NW_004516013.1	scaffold583	46086	CC	TT	TT	INTERGENIC			
SNP_78148_A_46093	NW_004516013.1	scaffold583	46093	GG	CC	CC	INTERGENIC			
SNP_78149_A_46121	NW_004516013.1	scaffold583	46121	AA	TT	TT	INTERGENIC			
SNP_78150_A_46328	NW_004516013.1	scaffold583	46328	TT	AA	AA	INTERGENIC			
SNP_78151_A_46360	NW_004516013.1	scaffold583	46360	AA	TT	TT	INTERGENIC			
SNP_78152_A_46405	NW_004516013.1	scaffold583	46405	TT	AA	AA	INTERGENIC			
SNP_78153_A_46457	NW_004516013.1	scaffold583	46457	TT	AA	AA	INTERGENIC			
SNP_78154_A_47871	NW_004516013.1	scaffold583	47871	TT	GG	GG	INTERGENIC			
SNP_78155_A_47886	NW_004516013.1	scaffold583	47886	GG	TT	TT	INTERGENIC			
SNP_78156_A_47902	NW_004516013.1	scaffold583	47902	TT	GG	GG	INTERGENIC			
SNP_78157_A_47928	NW_004516013.1	scaffold583	47928	CC	TT	TT	INTERGENIC			
SNP_78158_A_72339	NW_004516013.1	scaffold583	72339	CC	TT	TT	INTERGENIC			
SNP_78159_A_80974	NW_004516013.1	scaffold583	80974	GG	AA	AA	INTERGENIC			
SNP_78160_A_89623	NW_004516013.1	scaffold583	89623	CC	TT	TT	INTERGENIC			
SNP_78161_A_89711	NW_004516013.1	scaffold583	89711	GG	TT	TT	INTERGENIC			
SNP_78162_A_105765	NW_004516013.1	scaffold583	105765	GG	AA	AA	INTERGENIC			
SNP_78163_A_106183	NW_004516013.1	scaffold583	106183	AA	GG	GG	INTERGENIC			
SNP_78164_A_106192	NW_004516013.1	scaffold583	106192	TT	AA	AA	INTERGENIC			
SNP_78165_A_106347	NW_004516013.1	scaffold583	106347	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78167_A_136418	NW_004516013.1	scaffold583	136418	AA	GG	GG	INTERGENIC			
SNP_78168_A_136470	NW_004516013.1	scaffold583	136470	TT	AA	AA	INTERGENIC			
SNP_78169_A_136761	NW_004516013.1	scaffold583	136761	TT	GG	GG	INTERGENIC			
SNP_78170_A_136769	NW_004516013.1	scaffold583	136769	GG	AA	AA	INTERGENIC			
SNP_78171_A_136787	NW_004516013.1	scaffold583	136787	GG	AA	AA	INTERGENIC			
SNP_78172_A_136853	NW_004516013.1	scaffold583	136853	AA	GG	GG	INTERGENIC			
SNP_78173_A_146856	NW_004516013.1	scaffold583	146856	TT	AA	AA	INTERGENIC			
SNP_78174_A_146878	NW_004516013.1	scaffold583	146878	TT	CC	CC	INTERGENIC			
SNP_78175_A_147245	NW_004516013.1	scaffold583	147245	CC	TT	TT	INTERGENIC			
SNP_78176_A_147509	NW_004516013.1	scaffold583	147509	GG	TT	TT	INTERGENIC			
SNP_78177_A_147552	NW_004516013.1	scaffold583	147552	AA	TT	TT	INTERGENIC			
SNP_78178_A_147858	NW_004516013.1	scaffold583	147858	CC	TT	TT	INTERGENIC			
SNP_78180_A_168848	NW_004516013.1	scaffold583	168848	AA	TT	TT	INTERGENIC			
SNP_78181_A_168854	NW_004516013.1	scaffold583	168854	CC	GG	GG	INTERGENIC			
SNP_78182_A_168884	NW_004516013.1	scaffold583	168884	CC	GG	GG	INTERGENIC			
SNP_78183_A_168955	NW_004516013.1	scaffold583	168955	AA	GG	GG	INTERGENIC			
SNP_78184_A_168961	NW_004516013.1	scaffold583	168961	TT	AA	AA	INTERGENIC			
SNP_78185_A_169779	NW_004516013.1	scaffold583	169779	AA	GG	GG	INTERGENIC			
SNP_78186_A_169825	NW_004516013.1	scaffold583	169825	TT	CC	CC	INTERGENIC			
SNP_78187_A_170016	NW_004516013.1	scaffold583	170016	AA	GG	GG	INTERGENIC			
SNP_78188_A_170031	NW_004516013.1	scaffold583	170031	AA	TT	TT	INTERGENIC			
SNP_78189_A_518	NW_004516014.1	scaffold584	518	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78190_A_972	NW_004516014.1	scaffold584	972	AA	CC	CC	INTERGENIC			
SNP_78191_A_2975	NW_004516014.1	scaffold584	2975	AA	GG	GG	INTERGENIC			
SNP_78192_A_7875	NW_004516014.1	scaffold584	7875	AA	GG	GG	INTERGENIC			
SNP_78193_A_11792	NW_004516014.1	scaffold584	11792	AA	GG	GG	INTERGENIC			
SNP_78194_A_11993	NW_004516014.1	scaffold584	11993	TT	CC	CC	INTERGENIC			
SNP_78195_A_12014	NW_004516014.1	scaffold584	12014	CC	AA	AA	INTERGENIC			
SNP_78196_A_12030	NW_004516014.1	scaffold584	12030	GG	CC	CC	INTERGENIC			
SNP_78197_A_12046	NW_004516014.1	scaffold584	12046	TT	AA	AA	INTERGENIC			
SNP_78198_A_12047	NW_004516014.1	scaffold584	12047	AA	GG	GG	INTERGENIC			
SNP_78199_A_12048	NW_004516014.1	scaffold584	12048	AA	GG	GG	INTERGENIC			
SNP_78200_A_12102	NW_004516014.1	scaffold584	12102	GG	TT	TT	INTERGENIC			
SNP_78201_A_12193	NW_004516014.1	scaffold584	12193	AA	GG	GG	INTERGENIC			
SNP_78202_A_12257	NW_004516014.1	scaffold584	12257	CC	AA	AA	INTERGENIC			
SNP_78203_A_12261	NW_004516014.1	scaffold584	12261	AA	CC	CC	INTERGENIC			
SNP_78204_A_12285	NW_004516014.1	scaffold584	12285	AA	GG	GG	INTERGENIC			
SNP_78205_A_12289	NW_004516014.1	scaffold584	12289	CC	AA	AA	INTERGENIC			
SNP_78206_A_82330	NW_004516014.1	scaffold584	82330	AA	CC	CC	INTERGENIC			
SNP_78207_A_119767	NW_004516014.1	scaffold584	119767	AA	TT	TT	INTERGENIC			
SNP_78208_A_120430	NW_004516014.1	scaffold584	120430	TT	CC	CC	INTERGENIC			
SNP_78209_A_120469	NW_004516014.1	scaffold584	120469	CC	AA	AA	INTERGENIC			
SNP_78210_A_129139	NW_004516014.1	scaffold584	129139	GG	TT	TT	INTERGENIC			
SNP_78211_A_129166	NW_004516014.1	scaffold584	129166	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78212_A_136328	NW_004516014.1	scaffold584	136328	AA	GG	GG	INTERGENIC			
SNP_78213_A_136401	NW_004516014.1	scaffold584	136401	TT	CC	CC	INTERGENIC			
SNP_78214_A_144347	NW_004516014.1	scaffold584	144347	CC	AA	AA	INTERGENIC			
SNP_78215_A_144354	NW_004516014.1	scaffold584	144354	TT	CC	CC	INTERGENIC			
SNP_78216_A_144374	NW_004516014.1	scaffold584	144374	TT	AA	AA	INTERGENIC			
SNP_78217_A_144515	NW_004516014.1	scaffold584	144515	AA	TT	TT	INTERGENIC			
SNP_78218_A_144881	NW_004516014.1	scaffold584	144881	CC	TT	TT	INTERGENIC			
SNP_78219_A_222793	NW_004516014.1	scaffold584	222793	AA	GG	GG	INTERGENIC			
SNP_78220_A_223883	NW_004516014.1	scaffold584	223883	TT	GG	GG	INTERGENIC			
SNP_78221_A_223904	NW_004516014.1	scaffold584	223904	TT	CC	CC	INTERGENIC			
SNP_78222_A_223913	NW_004516014.1	scaffold584	223913	TT	AA	AA	INTERGENIC			
SNP_78223_A_223915	NW_004516014.1	scaffold584	223915	AA	GG	GG	INTERGENIC			
SNP_78224_A_223936	NW_004516014.1	scaffold584	223936	CC	TT	TT	INTERGENIC			
SNP_78225_A_224305	NW_004516014.1	scaffold584	224305	TT	CC	CC	INTERGENIC			
SNP_78227_A_247661	NW_004516014.1	scaffold584	247661	AA	TT	TT	INTERGENIC			
SNP_78228_A_249436	NW_004516014.1	scaffold584	249436	TT	AA	AA	INTERGENIC			
SNP_78229_A_272803	NW_004516014.1	scaffold584	272803	GG	TT	TT	INTERGENIC			
SNP_78230_A_272857	NW_004516014.1	scaffold584	272857	TT	GG	GG	INTERGENIC			
SNP_78231_A_276681	NW_004516014.1	scaffold584	276681	TT	AA	AA	INTERGENIC			
SNP_78232_A_296349	NW_004516014.1	scaffold584	296349	TT	AA	AA	INTERGENIC			
SNP_78233_A_296446	NW_004516014.1	scaffold584	296446	AA	TT	TT	INTERGENIC			
SNP_78234_A_320762	NW_004516014.1	scaffold584	320762	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78235_A_332636	NW_004516014.1	scaffold584	332636	CC	TT	TT	INTERGENIC			
SNP_78236_A_332703	NW_004516014.1	scaffold584	332703	TT	GG	GG	INTERGENIC			
SNP_78237_A_335770	NW_004516014.1	scaffold584	335770	CC	GG	GG	INTERGENIC			
SNP_78238_A_6940	NW_004516016.1	scaffold586	6940	AA	GG	GG	INTERGENIC			
SNP_78239_A_6941	NW_004516016.1	scaffold586	6941	GG	TT	TT	INTERGENIC			
SNP_78240_A_7144	NW_004516016.1	scaffold586	7144	CC	TT	TT	INTERGENIC			
SNP_78241_A_7259	NW_004516016.1	scaffold586	7259	GG	TT	TT	INTERGENIC			
SNP_78242_A_7327	NW_004516016.1	scaffold586	7327	CC	GG	GG	INTERGENIC			
SNP_78243_A_7356	NW_004516016.1	scaffold586	7356	AA	TT	TT	INTERGENIC			
SNP_78244_A_7693	NW_004516016.1	scaffold586	7693	CC	GG	GG	INTERGENIC			
SNP_78245_A_7700	NW_004516016.1	scaffold586	7700	GG	CC	CC	INTERGENIC			
SNP_78246_A_7707	NW_004516016.1	scaffold586	7707	TT	CC	CC	INTERGENIC			
SNP_78247_A_7709	NW_004516016.1	scaffold586	7709	AA	CC	CC	INTERGENIC			
SNP_78248_A_7749	NW_004516016.1	scaffold586	7749	AA	GG	GG	INTERGENIC			
SNP_78249_A_20696	NW_004516016.1	scaffold586	20696	AA	GG	GG	INTERGENIC			
SNP_78250_A_21653	NW_004516016.1	scaffold586	21653	CC	GG	GG	INTERGENIC			
SNP_78251_A_21757	NW_004516016.1	scaffold586	21757	CC	TT	TT	INTERGENIC			
SNP_78252_A_21892	NW_004516016.1	scaffold586	21892	GG	AA	AA	INTERGENIC			
SNP_78253_A_21904	NW_004516016.1	scaffold586	21904	CC	TT	TT	INTERGENIC			
SNP_78254_A_21909	NW_004516016.1	scaffold586	21909	GG	AA	AA	INTERGENIC			
SNP_78255_A_21967	NW_004516016.1	scaffold586	21967	GG	AA	AA	INTERGENIC			
SNP_78256_A_21976	NW_004516016.1	scaffold586	21976	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78257_A_21981	NW_004516016.1	scaffold586	21981	TT	AA	AA	INTERGENIC			
SNP_78258_A_22320	NW_004516016.1	scaffold586	22320	TT	CC	CC	INTERGENIC			
SNP_78259_A_22324	NW_004516016.1	scaffold586	22324	TT	CC	CC	INTERGENIC			
SNP_78260_A_22796	NW_004516016.1	scaffold586	22796	CC	TT	TT	INTERGENIC			
SNP_78261_A_22802	NW_004516016.1	scaffold586	22802	CC	AA	AA	INTERGENIC			
SNP_78262_A_22848	NW_004516016.1	scaffold586	22848	GG	AA	AA	INTERGENIC			
SNP_78263_A_22922	NW_004516016.1	scaffold586	22922	TT	GG	GG	INTERGENIC			
SNP_78264_A_23007	NW_004516016.1	scaffold586	23007	CC	TT	TT	INTERGENIC			
SNP_78265_A_23468	NW_004516016.1	scaffold586	23468	CC	GG	GG	INTERGENIC			
SNP_78266_A_815	NW_004516017.1	scaffold587	815	GG	AA	AA	INTERGENIC			
SNP_78267_A_979	NW_004516017.1	scaffold587	979	AA	GG	GG	INTERGENIC			
SNP_78268_A_4192	NW_004516017.1	scaffold587	4192	CC	TT	TT	INTERGENIC			
SNP_78269_A_4222	NW_004516017.1	scaffold587	4222	AA	TT	TT	INTERGENIC			
SNP_78270_A_4454	NW_004516017.1	scaffold587	4454	AA	GG	GG	INTERGENIC			
SNP_78271_A_4573	NW_004516017.1	scaffold587	4573	TT	CC	CC	INTERGENIC			
SNP_78272_A_4576	NW_004516017.1	scaffold587	4576	TT	AA	AA	INTERGENIC			
SNP_78273_A_4850	NW_004516017.1	scaffold587	4850	TT	CC	CC	INTERGENIC			
SNP_78274_A_5049	NW_004516017.1	scaffold587	5049	AA	GG	GG	INTERGENIC			
SNP_78275_A_5119	NW_004516017.1	scaffold587	5119	AA	GG	GG	INTERGENIC			
SNP_78276_A_5226	NW_004516017.1	scaffold587	5226	AA	GG	GG	INTERGENIC			
SNP_78277_A_5262	NW_004516017.1	scaffold587	5262	CC	AA	AA	INTERGENIC			
SNP_78278_A_5304	NW_004516017.1	scaffold587	5304	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78279_A_6825	NW_004516017.1	scaffold587	6825	CC	GG	GG	INTERGENIC			
SNP_78280_A_7630	NW_004516017.1	scaffold587	7630	AA	TT	TT	INTERGENIC			
SNP_78281_A_7983	NW_004516017.1	scaffold587	7983	GG	AA	AA	INTERGENIC			
SNP_78282_A_8069	NW_004516017.1	scaffold587	8069	TT	AA	AA	INTERGENIC			
SNP_78283_A_8111	NW_004516017.1	scaffold587	8111	AA	TT	TT	INTERGENIC			
SNP_78284_A_8173	NW_004516017.1	scaffold587	8173	CC	AA	AA	INTERGENIC			
SNP_78285_A_9032	NW_004516017.1	scaffold587	9032	AA	TT	TT	INTERGENIC			
SNP_78286_A_9034	NW_004516017.1	scaffold587	9034	AA	CC	CC	INTERGENIC			
SNP_78287_A_9077	NW_004516017.1	scaffold587	9077	AA	GG	GG	INTERGENIC			
SNP_78288_A_9078	NW_004516017.1	scaffold587	9078	GG	TT	TT	INTERGENIC			
SNP_78289_A_9126	NW_004516017.1	scaffold587	9126	GG	AA	AA	INTERGENIC			
SNP_78290_A_9137	NW_004516017.1	scaffold587	9137	GG	TT	TT	INTERGENIC			
SNP_78291_A_9332	NW_004516017.1	scaffold587	9332	AA	TT	TT	INTERGENIC			
SNP_78292_A_9749	NW_004516017.1	scaffold587	9749	TT	AA	AA	INTERGENIC			
SNP_78293_A_10103	NW_004516017.1	scaffold587	10103	GG	AA	AA	INTERGENIC			
SNP_78294_A_10106	NW_004516017.1	scaffold587	10106	CC	AA	AA	INTERGENIC			
SNP_78295_A_10213	NW_004516017.1	scaffold587	10213	AA	GG	GG	INTERGENIC			
SNP_78296_A_10266	NW_004516017.1	scaffold587	10266	TT	CC	CC	INTERGENIC			
SNP_78297_A_10286	NW_004516017.1	scaffold587	10286	GG	AA	AA	INTERGENIC			
SNP_78298_A_10330	NW_004516017.1	scaffold587	10330	AA	CC	CC	INTERGENIC			
SNP_78299_A_10652	NW_004516017.1	scaffold587	10652	AA	CC	CC	INTERGENIC			
SNP_78300_A_10677	NW_004516017.1	scaffold587	10677	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78301_A_10998	NW_004516017.1	scaffold587	10998	TT	CC	CC	INTERGENIC			
SNP_78302_A_13173	NW_004516017.1	scaffold587	13173	GG	TT	TT	INTERGENIC			
SNP_78303_A_13487	NW_004516017.1	scaffold587	13487	AA	GG	GG	INTERGENIC			
SNP_78304_A_13539	NW_004516017.1	scaffold587	13539	TT	GG	GG	INTERGENIC			
SNP_78305_A_13949	NW_004516017.1	scaffold587	13949	TT	AA	AA	INTERGENIC			
SNP_78306_A_15050	NW_004516017.1	scaffold587	15050	TT	AA	AA	INTERGENIC			
SNP_78307_A_15223	NW_004516017.1	scaffold587	15223	AA	CC	CC	INTERGENIC			
SNP_78308_A_15224	NW_004516017.1	scaffold587	15224	AA	TT	TT	INTERGENIC			
SNP_78309_A_15431	NW_004516017.1	scaffold587	15431	AA	CC	CC	INTERGENIC			
SNP_78310_A_15996	NW_004516017.1	scaffold587	15996	GG	AA	AA	INTERGENIC			
SNP_78311_A_16027	NW_004516017.1	scaffold587	16027	CC	GG	GG	INTERGENIC			
SNP_78312_A_16091	NW_004516017.1	scaffold587	16091	GG	AA	AA	INTERGENIC			
SNP_78313_A_16096	NW_004516017.1	scaffold587	16096	TT	CC	CC	INTERGENIC			
SNP_78314_A_16143	NW_004516017.1	scaffold587	16143	TT	GG	GG	INTERGENIC			
SNP_78315_A_16218	NW_004516017.1	scaffold587	16218	TT	CC	CC	INTERGENIC			
SNP_78316_A_16290	NW_004516017.1	scaffold587	16290	CC	AA	AA	INTERGENIC			
SNP_78317_A_16362	NW_004516017.1	scaffold587	16362	AA	CC	CC	INTERGENIC			
SNP_78318_A_16495	NW_004516017.1	scaffold587	16495	CC	GG	GG	INTERGENIC			
SNP_78319_A_16525	NW_004516017.1	scaffold587	16525	AA	CC	CC	INTERGENIC			
SNP_78320_A_16662	NW_004516017.1	scaffold587	16662	TT	CC	CC	INTERGENIC			
SNP_78321_A_16754	NW_004516017.1	scaffold587	16754	TT	AA	AA	INTERGENIC			
SNP_78322_A_16766	NW_004516017.1	scaffold587	16766	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78323_A_16792	NW_004516017.1	scaffold587	16792	TT	CC	CC	INTERGENIC			
SNP_78324_A_17131	NW_004516017.1	scaffold587	17131	TT	CC	CC	INTERGENIC			
SNP_78325_A_17150	NW_004516017.1	scaffold587	17150	CC	TT	TT	INTERGENIC			
SNP_78326_A_17334	NW_004516017.1	scaffold587	17334	GG	TT	TT	INTERGENIC			
SNP_78327_A_17462	NW_004516017.1	scaffold587	17462	CC	TT	TT	INTERGENIC			
SNP_78328_A_17515	NW_004516017.1	scaffold587	17515	GG	AA	AA	INTERGENIC			
SNP_78329_A_17537	NW_004516017.1	scaffold587	17537	TT	GG	GG	INTERGENIC			
SNP_78330_A_17570	NW_004516017.1	scaffold587	17570	AA	CC	CC	INTERGENIC			
SNP_78331_A_17591	NW_004516017.1	scaffold587	17591	CC	TT	TT	INTERGENIC			
SNP_78332_A_17603	NW_004516017.1	scaffold587	17603	CC	TT	TT	INTERGENIC			
SNP_78333_A_17625	NW_004516017.1	scaffold587	17625	AA	GG	GG	INTERGENIC			
SNP_78334_A_17965	NW_004516017.1	scaffold587	17965	CC	GG	GG	INTERGENIC			
SNP_78335_A_18045	NW_004516017.1	scaffold587	18045	GG	TT	TT	INTERGENIC			
SNP_78336_A_18046	NW_004516017.1	scaffold587	18046	AA	GG	GG	INTERGENIC			
SNP_78338_A_19432	NW_004516017.1	scaffold587	19432	CC	AA	AA	INTERGENIC			
SNP_78339_A_19638	NW_004516017.1	scaffold587	19638	AA	CC	CC	INTERGENIC			
SNP_78340_A_19755	NW_004516017.1	scaffold587	19755	CC	TT	TT	INTERGENIC			
SNP_78341_A_19757	NW_004516017.1	scaffold587	19757	AA	GG	GG	INTERGENIC			
SNP_78342_A_19841	NW_004516017.1	scaffold587	19841	AA	GG	GG	INTERGENIC			
SNP_78343_A_19854	NW_004516017.1	scaffold587	19854	GG	AA	AA	INTERGENIC			
SNP_78344_A_19930	NW_004516017.1	scaffold587	19930	TT	GG	GG	INTERGENIC			
SNP_78345_A_22406	NW_004516017.1	scaffold587	22406	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78346_A_22408	NW_004516017.1	scaffold587	22408	AA	GG	GG	INTERGENIC			
SNP_78347_A_22430	NW_004516017.1	scaffold587	22430	GG	TT	TT	INTERGENIC			
SNP_78348_A_22442	NW_004516017.1	scaffold587	22442	GG	AA	AA	INTERGENIC			
SNP_78349_A_22486	NW_004516017.1	scaffold587	22486	CC	TT	TT	INTERGENIC			
SNP_78350_A_22508	NW_004516017.1	scaffold587	22508	AA	TT	TT	INTERGENIC			
SNP_78351_A_22519	NW_004516017.1	scaffold587	22519	GG	TT	TT	INTERGENIC			
SNP_78352_A_22611	NW_004516017.1	scaffold587	22611	AA	GG	GG	INTERGENIC			
SNP_78353_A_22699	NW_004516017.1	scaffold587	22699	TT	GG	GG	INTERGENIC			
SNP_78354_A_22718	NW_004516017.1	scaffold587	22718	TT	GG	GG	INTERGENIC			
SNP_78355_A_22726	NW_004516017.1	scaffold587	22726	AA	GG	GG	INTERGENIC			
SNP_78356_A_22820	NW_004516017.1	scaffold587	22820	GG	AA	AA	INTERGENIC			
SNP_78357_A_22821	NW_004516017.1	scaffold587	22821	GG	AA	AA	INTERGENIC			
SNP_78358_A_22837	NW_004516017.1	scaffold587	22837	CC	TT	TT	INTERGENIC			
SNP_78359_A_22846	NW_004516017.1	scaffold587	22846	AA	TT	TT	INTERGENIC			
SNP_78360_A_22934	NW_004516017.1	scaffold587	22934	GG	AA	AA	INTERGENIC			
SNP_78362_A_27767	NW_004516017.1	scaffold587	27767	AA	GG	GG	INTERGENIC			
SNP_78363_A_28052	NW_004516017.1	scaffold587	28052	AA	CC	CC	INTERGENIC			
SNP_78364_A_28385	NW_004516017.1	scaffold587	28385	AA	GG	GG	INTERGENIC			
SNP_78365_A_29465	NW_004516017.1	scaffold587	29465	AA	GG	GG	INTERGENIC			
SNP_78366_A_29489	NW_004516017.1	scaffold587	29489	AA	GG	GG	INTERGENIC			
SNP_78367_A_29823	NW_004516017.1	scaffold587	29823	TT	CC	CC	INTERGENIC			
SNP_78368_A_29857	NW_004516017.1	scaffold587	29857	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78369_A_30994	NW_004516017.1	scaffold587	30994	CC	GG	GG	INTERGENIC			
SNP_78370_A_31024	NW_004516017.1	scaffold587	31024	AA	GG	GG	INTERGENIC			
SNP_78371_A_31073	NW_004516017.1	scaffold587	31073	CC	TT	TT	INTERGENIC			
SNP_78372_A_31128	NW_004516017.1	scaffold587	31128	AA	TT	TT	INTERGENIC			
SNP_78373_A_31130	NW_004516017.1	scaffold587	31130	AA	CC	CC	INTERGENIC			
SNP_78374_A_31149	NW_004516017.1	scaffold587	31149	AA	GG	GG	INTERGENIC			
SNP_78375_A_31637	NW_004516017.1	scaffold587	31637	AA	TT	TT	INTERGENIC			
SNP_78376_A_31828	NW_004516017.1	scaffold587	31828	AA	TT	TT	INTERGENIC			
SNP_78377_A_31885	NW_004516017.1	scaffold587	31885	CC	TT	TT	INTERGENIC			
SNP_78378_A_31894	NW_004516017.1	scaffold587	31894	CC	GG	GG	INTERGENIC			
SNP_78379_A_31972	NW_004516017.1	scaffold587	31972	TT	GG	GG	INTERGENIC			
SNP_78380_A_32018	NW_004516017.1	scaffold587	32018	TT	CC	CC	INTERGENIC			
SNP_78381_A_35309	NW_004516017.1	scaffold587	35309	CC	GG	GG	INTERGENIC			
SNP_78382_A_35401	NW_004516017.1	scaffold587	35401	TT	GG	GG	INTERGENIC			
SNP_78383_A_35403	NW_004516017.1	scaffold587	35403	TT	GG	GG	INTERGENIC			
SNP_78384_A_36549	NW_004516017.1	scaffold587	36549	TT	CC	CC	INTERGENIC			
SNP_78385_A_36854	NW_004516017.1	scaffold587	36854	GG	AA	AA	INTERGENIC			
SNP_78386_A_36904	NW_004516017.1	scaffold587	36904	AA	GG	GG	INTERGENIC			
SNP_78387_A_37157	NW_004516017.1	scaffold587	37157	GG	AA	AA	INTERGENIC			
SNP_78388_A_38683	NW_004516017.1	scaffold587	38683	AA	GG	GG	INTERGENIC			
SNP_78389_A_38703	NW_004516017.1	scaffold587	38703	TT	GG	GG	INTERGENIC			
SNP_78390_A_38744	NW_004516017.1	scaffold587	38744	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78391_A_38894	NW_004516017.1	scaffold587	38894	AA	GG	GG	INTERGENIC			
SNP_78392_A_38935	NW_004516017.1	scaffold587	38935	AA	GG	GG	INTERGENIC			
SNP_78393_A_38987	NW_004516017.1	scaffold587	38987	GG	AA	AA	INTERGENIC			
SNP_78394_A_38990	NW_004516017.1	scaffold587	38990	GG	CC	CC	INTERGENIC			
SNP_78395_A_39028	NW_004516017.1	scaffold587	39028	AA	GG	GG	INTERGENIC			
SNP_78396_A_39056	NW_004516017.1	scaffold587	39056	GG	CC	CC	INTERGENIC			
SNP_78397_A_40532	NW_004516017.1	scaffold587	40532	CC	GG	GG	INTERGENIC			
SNP_78398_A_40553	NW_004516017.1	scaffold587	40553	AA	GG	GG	INTERGENIC			
SNP_78399_A_40712	NW_004516017.1	scaffold587	40712	AA	CC	CC	INTERGENIC			
SNP_78400_A_40772	NW_004516017.1	scaffold587	40772	GG	AA	AA	INTERGENIC			
SNP_78401_A_40813	NW_004516017.1	scaffold587	40813	TT	CC	CC	INTERGENIC			
SNP_78402_A_40836	NW_004516017.1	scaffold587	40836	AA	GG	GG	INTERGENIC			
SNP_78403_A_40990	NW_004516017.1	scaffold587	40990	GG	TT	TT	INTERGENIC			
SNP_78404_A_41073	NW_004516017.1	scaffold587	41073	AA	GG	GG	INTERGENIC			
SNP_78405_A_41177	NW_004516017.1	scaffold587	41177	AA	GG	GG	INTERGENIC			
SNP_78406_A_41214	NW_004516017.1	scaffold587	41214	CC	TT	TT	INTERGENIC			
SNP_78407_A_41215	NW_004516017.1	scaffold587	41215	GG	AA	AA	INTERGENIC			
SNP_78408_A_43021	NW_004516017.1	scaffold587	43021	CC	TT	TT	INTERGENIC			
SNP_78409_A_45288	NW_004516017.1	scaffold587	45288	TT	AA	AA	INTERGENIC			
SNP_78410_A_45303	NW_004516017.1	scaffold587	45303	AA	GG	GG	INTERGENIC			
SNP_78411_A_45357	NW_004516017.1	scaffold587	45357	TT	AA	AA	INTERGENIC			
SNP_78412_A_45359	NW_004516017.1	scaffold587	45359	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78413_A_45362	NW_004516017.1	scaffold587	45362	GG	CC	CC	INTERGENIC			
SNP_78414_A_45406	NW_004516017.1	scaffold587	45406	TT	AA	AA	INTERGENIC			
SNP_78415_A_45657	NW_004516017.1	scaffold587	45657	CC	TT	TT	INTERGENIC			
SNP_78416_A_45663	NW_004516017.1	scaffold587	45663	GG	TT	TT	INTERGENIC			
SNP_78417_A_47166	NW_004516017.1	scaffold587	47166	CC	TT	TT	INTERGENIC			
SNP_78418_A_47168	NW_004516017.1	scaffold587	47168	CC	TT	TT	INTERGENIC			
SNP_78419_A_47277	NW_004516017.1	scaffold587	47277	AA	GG	GG	INTERGENIC			
SNP_78420_A_47295	NW_004516017.1	scaffold587	47295	CC	AA	AA	INTERGENIC			
SNP_78421_A_47306	NW_004516017.1	scaffold587	47306	TT	CC	CC	INTERGENIC			
SNP_78422_A_47321	NW_004516017.1	scaffold587	47321	TT	CC	CC	INTERGENIC			
SNP_78423_A_47325	NW_004516017.1	scaffold587	47325	TT	GG	GG	INTERGENIC			
SNP_78424_A_47339	NW_004516017.1	scaffold587	47339	AA	CC	CC	INTERGENIC			
SNP_78425_A_47340	NW_004516017.1	scaffold587	47340	TT	CC	CC	INTERGENIC			
SNP_78426_A_47526	NW_004516017.1	scaffold587	47526	AA	CC	CC	INTERGENIC			
SNP_78427_A_47569	NW_004516017.1	scaffold587	47569	AA	GG	GG	INTERGENIC			
SNP_78428_A_47666	NW_004516017.1	scaffold587	47666	TT	AA	AA	INTERGENIC			
SNP_78429_A_48604	NW_004516017.1	scaffold587	48604	GG	CC	CC	INTERGENIC			
SNP_78430_A_48693	NW_004516017.1	scaffold587	48693	TT	CC	CC	INTERGENIC			
SNP_78431_A_48852	NW_004516017.1	scaffold587	48852	AA	GG	GG	INTERGENIC			
SNP_78432_A_48865	NW_004516017.1	scaffold587	48865	AA	TT	TT	INTERGENIC			
SNP_78433_A_48943	NW_004516017.1	scaffold587	48943	GG	CC	CC	INTERGENIC			
SNP_78434_A_49341	NW_004516017.1	scaffold587	49341	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78435_A_49368	NW_004516017.1	scaffold587	49368	AA	GG	GG	INTERGENIC			
SNP_78436_A_49564	NW_004516017.1	scaffold587	49564	GG	AA	AA	INTERGENIC			
SNP_78437_A_49576	NW_004516017.1	scaffold587	49576	TT	CC	CC	INTERGENIC			
SNP_78438_A_50507	NW_004516017.1	scaffold587	50507	TT	GG	GG	INTERGENIC			
SNP_78439_A_50512	NW_004516017.1	scaffold587	50512	GG	AA	AA	INTERGENIC			
SNP_78440_A_50590	NW_004516017.1	scaffold587	50590	GG	AA	AA	INTERGENIC			
SNP_78441_A_50673	NW_004516017.1	scaffold587	50673	AA	GG	GG	INTERGENIC			
SNP_78442_A_50710	NW_004516017.1	scaffold587	50710	AA	GG	GG	INTERGENIC			
SNP_78443_A_50760	NW_004516017.1	scaffold587	50760	AA	GG	GG	INTERGENIC			
SNP_78444_A_50763	NW_004516017.1	scaffold587	50763	GG	AA	AA	INTERGENIC			
SNP_78445_A_50771	NW_004516017.1	scaffold587	50771	GG	AA	AA	INTERGENIC			
SNP_78447_A_50929	NW_004516017.1	scaffold587	50929	TT	GG	GG	INTERGENIC			
SNP_78448_A_50966	NW_004516017.1	scaffold587	50966	CC	TT	TT	INTERGENIC			
SNP_78449_A_50984	NW_004516017.1	scaffold587	50984	AA	GG	GG	INTERGENIC			
SNP_78451_A_51095	NW_004516017.1	scaffold587	51095	AA	GG	GG	INTERGENIC			
SNP_78452_A_51181	NW_004516017.1	scaffold587	51181	TT	CC	CC	INTERGENIC			
SNP_78453_A_51213	NW_004516017.1	scaffold587	51213	GG	AA	AA	INTERGENIC			
SNP_78454_A_51258	NW_004516017.1	scaffold587	51258	AA	GG	GG	INTERGENIC			
SNP_78455_A_52638	NW_004516017.1	scaffold587	52638	GG	AA	AA	INTERGENIC			
SNP_78456_A_52660	NW_004516017.1	scaffold587	52660	AA	GG	GG	INTERGENIC			
SNP_78457_A_52749	NW_004516017.1	scaffold587	52749	CC	AA	AA	INTERGENIC			
SNP_78458_A_52826	NW_004516017.1	scaffold587	52826	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78459_A_52871	NW_004516017.1	scaffold587	52871	CC	TT	TT	INTERGENIC			
SNP_78460_A_53010	NW_004516017.1	scaffold587	53010	TT	CC	CC	INTERGENIC			
SNP_78462_A_53152	NW_004516017.1	scaffold587	53152	CC	TT	TT	INTERGENIC			
SNP_78463_A_53548	NW_004516017.1	scaffold587	53548	AA	GG	GG	INTERGENIC			
SNP_78464_A_53581	NW_004516017.1	scaffold587	53581	AA	GG	GG	INTERGENIC			
SNP_78465_A_53585	NW_004516017.1	scaffold587	53585	CC	TT	TT	INTERGENIC			
SNP_78466_A_53587	NW_004516017.1	scaffold587	53587	AA	GG	GG	INTERGENIC			
SNP_78467_A_53589	NW_004516017.1	scaffold587	53589	AA	CC	CC	INTERGENIC			
SNP_78468_A_53624	NW_004516017.1	scaffold587	53624	AA	CC	CC	INTERGENIC			
SNP_78469_A_53664	NW_004516017.1	scaffold587	53664	CC	TT	TT	INTERGENIC			
SNP_78470_A_53669	NW_004516017.1	scaffold587	53669	AA	GG	GG	INTERGENIC			
SNP_78471_A_53697	NW_004516017.1	scaffold587	53697	CC	AA	AA	INTERGENIC			
SNP_78472_A_53705	NW_004516017.1	scaffold587	53705	GG	AA	AA	INTERGENIC			
SNP_78473_A_53925	NW_004516017.1	scaffold587	53925	AA	CC	CC	INTERGENIC			
SNP_78474_A_53968	NW_004516017.1	scaffold587	53968	AA	GG	GG	INTERGENIC			
SNP_78475_A_54005	NW_004516017.1	scaffold587	54005	TT	GG	GG	INTERGENIC			
SNP_78476_A_54330	NW_004516017.1	scaffold587	54330	CC	TT	TT	INTERGENIC			
SNP_78477_A_54331	NW_004516017.1	scaffold587	54331	TT	CC	CC	INTERGENIC			
SNP_78478_A_54359	NW_004516017.1	scaffold587	54359	AA	GG	GG	INTERGENIC			
SNP_78479_A_54376	NW_004516017.1	scaffold587	54376	TT	AA	AA	INTERGENIC			
SNP_78480_A_54594	NW_004516017.1	scaffold587	54594	AA	GG	GG	INTERGENIC			
SNP_78481_A_54635	NW_004516017.1	scaffold587	54635	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78482_A_54685	NW_004516017.1	scaffold587	54685	TT	CC	CC	INTERGENIC			
SNP_78484_A_54955	NW_004516017.1	scaffold587	54955	AA	TT	TT	INTERGENIC			
SNP_78485_A_55015	NW_004516017.1	scaffold587	55015	GG	AA	AA	INTERGENIC			
SNP_78486_A_55223	NW_004516017.1	scaffold587	55223	GG	TT	TT	INTERGENIC			
SNP_78487_A_55260	NW_004516017.1	scaffold587	55260	GG	AA	AA	INTERGENIC			
SNP_78488_A_55435	NW_004516017.1	scaffold587	55435	GG	TT	TT	INTERGENIC			
SNP_78489_A_55525	NW_004516017.1	scaffold587	55525	CC	GG	GG	INTERGENIC			
SNP_78491_A_55613	NW_004516017.1	scaffold587	55613	AA	GG	GG	INTERGENIC			
SNP_78492_A_55645	NW_004516017.1	scaffold587	55645	TT	GG	GG	INTERGENIC			
SNP_78493_A_55671	NW_004516017.1	scaffold587	55671	CC	TT	TT	INTERGENIC			
SNP_78494_A_55747	NW_004516017.1	scaffold587	55747	CC	TT	TT	INTERGENIC			
SNP_78495_A_55963	NW_004516017.1	scaffold587	55963	AA	GG	GG	INTERGENIC			
SNP_78496_A_56042	NW_004516017.1	scaffold587	56042	GG	AA	AA	INTERGENIC			
SNP_78498_A_61439	NW_004516017.1	scaffold587	61439	AA	TT	TT	INTERGENIC			
SNP_78499_A_70337	NW_004516017.1	scaffold587	70337	GG	CC	CC	INTERGENIC			
SNP_78501_A_70658	NW_004516017.1	scaffold587	70658	CC	GG	GG	INTERGENIC			
SNP_78502_A_70681	NW_004516017.1	scaffold587	70681	CC	GG	GG	INTERGENIC			
SNP_78503_A_70978	NW_004516017.1	scaffold587	70978	AA	GG	GG	INTERGENIC			
SNP_78504_A_71203	NW_004516017.1	scaffold587	71203	TT	CC	CC	INTERGENIC			
SNP_78505_A_7769	NW_004516018.1	scaffold588	7769	AA	GG	GG	INTERGENIC			
SNP_78506_A_7778	NW_004516018.1	scaffold588	7778	CC	GG	GG	INTERGENIC			
SNP_78507_A_13809	NW_004516018.1	scaffold588	13809	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78508_A_13927	NW_004516018.1	scaffold588	13927	CC	GG	GG	INTERGENIC			
SNP_78509_A_14337	NW_004516018.1	scaffold588	14337	AA	GG	GG	INTERGENIC			
SNP_78510_A_14381	NW_004516018.1	scaffold588	14381	CC	GG	GG	INTERGENIC			
SNP_78511_A_14415	NW_004516018.1	scaffold588	14415	CC	TT	TT	INTERGENIC			
SNP_78512_A_14436	NW_004516018.1	scaffold588	14436	CC	GG	GG	INTERGENIC			
SNP_78513_A_14474	NW_004516018.1	scaffold588	14474	TT	CC	CC	INTERGENIC			
SNP_78514_A_14482	NW_004516018.1	scaffold588	14482	TT	GG	GG	INTERGENIC			
SNP_78515_A_14983	NW_004516018.1	scaffold588	14983	GG	AA	AA	INTERGENIC			
SNP_78516_A_29526	NW_004516019.1	scaffold589	29526	AA	CC	CC	INTERGENIC			
SNP_78517_A_33318	NW_004516019.1	scaffold589	33318	AA	GG	GG	INTERGENIC			
SNP_78518_A_49302	NW_004516019.1	scaffold589	49302	AA	TT	TT	INTERGENIC			
SNP_78519_A_49414	NW_004516019.1	scaffold589	49414	AA	TT	TT	INTERGENIC			
SNP_78520_A_49439	NW_004516019.1	scaffold589	49439	TT	CC	CC	INTERGENIC			
SNP_78521_A_49516	NW_004516019.1	scaffold589	49516	AA	GG	GG	INTERGENIC			
SNP_78522_A_51327	NW_004516019.1	scaffold589	51327	TT	AA	AA	INTERGENIC			
SNP_78524_A_65197	NW_004516019.1	scaffold589	65197	CC	TT	TT	INTERGENIC			
SNP_78525_A_65221	NW_004516019.1	scaffold589	65221	AA	TT	TT	INTERGENIC			
SNP_78526_A_65440	NW_004516019.1	scaffold589	65440	CC	TT	TT	INTERGENIC			
SNP_78527_A_80202	NW_004516019.1	scaffold589	80202	TT	CC	CC	INTERGENIC			
SNP_78528_A_80222	NW_004516019.1	scaffold589	80222	AA	GG	GG	INTERGENIC			
SNP_78529_A_80228	NW_004516019.1	scaffold589	80228	AA	GG	GG	INTERGENIC			
SNP_78530_A_80251	NW_004516019.1	scaffold589	80251	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78531_A_80279	NW_004516019.1	scaffold589	80279	AA	CC	CC	INTERGENIC			
SNP_78532_A_82063	NW_004516019.1	scaffold589	82063	TT	CC	CC	INTERGENIC			
SNP_78533_A_82671	NW_004516019.1	scaffold589	82671	TT	CC	CC	INTERGENIC			
SNP_78534_A_82684	NW_004516019.1	scaffold589	82684	TT	CC	CC	INTERGENIC			
SNP_78535_A_83283	NW_004516019.1	scaffold589	83283	AA	GG	GG	INTERGENIC			
SNP_78536_A_83467	NW_004516019.1	scaffold589	83467	GG	AA	AA	INTERGENIC			
SNP_78537_A_83474	NW_004516019.1	scaffold589	83474	TT	CC	CC	INTERGENIC			
SNP_78539_A_83500	NW_004516019.1	scaffold589	83500	AA	GG	GG	INTERGENIC			
SNP_78540_A_83554	NW_004516019.1	scaffold589	83554	TT	CC	CC	INTERGENIC			
SNP_78541_A_83599	NW_004516019.1	scaffold589	83599	CC	TT	TT	INTERGENIC			
SNP_78542_A_83640	NW_004516019.1	scaffold589	83640	AA	CC	CC	INTERGENIC			
SNP_78543_A_83656	NW_004516019.1	scaffold589	83656	AA	TT	TT	INTERGENIC			
SNP_78544_A_83665	NW_004516019.1	scaffold589	83665	TT	AA	AA	INTERGENIC			
SNP_78545_A_100673	NW_004516019.1	scaffold589	100673	TT	AA	AA	INTERGENIC			
SNP_78546_A_100827	NW_004516019.1	scaffold589	100827	GG	TT	TT	INTERGENIC			
SNP_78547_A_100831	NW_004516019.1	scaffold589	100831	CC	TT	TT	INTERGENIC			
SNP_78548_A_127981	NW_004516019.1	scaffold589	127981	AA	TT	TT	INTERGENIC			
SNP_78549_A_128139	NW_004516019.1	scaffold589	128139	CC	AA	AA	INTERGENIC			
SNP_78550_A_138690	NW_004516019.1	scaffold589	138690	CC	TT	TT	INTERGENIC			
SNP_78551_A_142875	NW_004516019.1	scaffold589	142875	AA	GG	GG	INTERGENIC			
SNP_78553_A_180626	NW_004516019.1	scaffold589	180626	CC	TT	TT	INTERGENIC			
SNP_78554_A_208939	NW_004516019.1	scaffold589	208939	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78555_A_208971	NW_004516019.1	scaffold589	208971	TT	CC	CC	INTERGENIC			
SNP_78556_A_209355	NW_004516019.1	scaffold589	209355	TT	GG	GG	INTERGENIC			
SNP_78557_A_231445	NW_004516019.1	scaffold589	231445	CC	TT	TT	INTERGENIC			
SNP_78558_A_238888	NW_004516019.1	scaffold589	238888	CC	TT	TT	INTERGENIC			
SNP_78559_A_245152	NW_004516019.1	scaffold589	245152	CC	TT	TT	INTERGENIC			
SNP_78560_A_245214	NW_004516019.1	scaffold589	245214	CC	TT	TT	INTERGENIC			
SNP_78561_A_245223	NW_004516019.1	scaffold589	245223	TT	AA	AA	INTERGENIC			
SNP_78562_A_245278	NW_004516019.1	scaffold589	245278	CC	AA	AA	INTERGENIC			
SNP_78563_A_245382	NW_004516019.1	scaffold589	245382	CC	TT	TT	INTERGENIC			
SNP_78564_A_245390	NW_004516019.1	scaffold589	245390	AA	GG	GG	INTERGENIC			
SNP_78565_A_245429	NW_004516019.1	scaffold589	245429	AA	GG	GG	INTERGENIC			
SNP_78566_A_245457	NW_004516019.1	scaffold589	245457	TT	CC	CC	INTERGENIC			
SNP_78567_A_245494	NW_004516019.1	scaffold589	245494	GG	AA	AA	INTERGENIC			
SNP_78568_A_245544	NW_004516019.1	scaffold589	245544	AA	GG	GG	INTERGENIC			
SNP_78569_A_245587	NW_004516019.1	scaffold589	245587	AA	GG	GG	INTERGENIC			
SNP_78570_A_245594	NW_004516019.1	scaffold589	245594	AA	GG	GG	INTERGENIC			
SNP_78571_A_271967	NW_004516019.1	scaffold589	271967	AA	GG	GG	INTERGENIC			
SNP_78572_A_292758	NW_004516019.1	scaffold589	292758	GG	TT	TT	INTERGENIC			
SNP_78573_A_292841	NW_004516019.1	scaffold589	292841	GG	AA	AA	INTERGENIC			
SNP_78574_A_304889	NW_004516019.1	scaffold589	304889	TT	GG	GG	INTERGENIC			
SNP_78575_A_304901	NW_004516019.1	scaffold589	304901	TT	CC	CC	INTERGENIC			
SNP_78576_A_309088	NW_004516019.1	scaffold589	309088	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78578_A_322923	NW_004516019.1	scaffold589	322923	CC	GG	GG	INTERGENIC		
SNP_78579_A_323153	NW_004516019.1	scaffold589	323153	AA	GG	GG	INTERGENIC		
SNP_78580_A_323323	NW_004516019.1	scaffold589	323323	GG	AA	AA	INTERGENIC		
SNP_78581_A_323440	NW_004516019.1	scaffold589	323440	TT	CC	CC	INTERGENIC		
SNP_78582_A_323527	NW_004516019.1	scaffold589	323527	TT	AA	AA	INTERGENIC		
SNP_78583_A_323537	NW_004516019.1	scaffold589	323537	CC	GG	GG	INTERGENIC		
SNP_78587_A_3600	NW_004516020.1	scaffold590	3600	AA	CC	CC	INTRON	101505517	aquaporin NIP6-1-like
SNP_78588_A_3643	NW_004516020.1	scaffold590	3643	TT	CC	CC	INTRON	101505517	aquaporin NIP6-1-like
SNP_78589_A_3646	NW_004516020.1	scaffold590	3646	TT	AA	AA	INTRON	101505517	aquaporin NIP6-1-like
SNP_78590_A_3723	NW_004516020.1	scaffold590	3723	GG	AA	AA	INTRON	101505517	aquaporin NIP6-1-like
SNP_78591_A_3737	NW_004516020.1	scaffold590	3737	GG	AA	AA	INTRON	101505517	aquaporin NIP6-1-like
SNP_78592_A_3771	NW_004516020.1	scaffold590	3771	GG	AA	AA	INTRON	101505517	aquaporin NIP6-1-like
SNP_78593_A_3784	NW_004516020.1	scaffold590	3784	GG	TT	TT	INTRON	101505517	aquaporin NIP6-1-like
SNP_78594_A_3786	NW_004516020.1	scaffold590	3786	CC	AA	AA	INTRON	101505517	aquaporin NIP6-1-like
SNP_78595_A_5321	NW_004516020.1	scaffold590	5321	TT	CC	CC	INTRON	101505517	aquaporin NIP6-1-like
SNP_78596_A_14109	NW_004516020.1	scaffold590	14109	AA	CC	CC	INTERGENIC		
SNP_78597_A_16816	NW_004516020.1	scaffold590	16816	AA	CC	CC	URR	101503377	Golgi SNAP receptor complex member 1-1-like
SNP_78598_A_16887	NW_004516020.1	scaffold590	16887	CC	AA	AA	URR	101503377	Golgi SNAP receptor complex member 1-1-like
SNP_78599_A_19016	NW_004516020.1	scaffold590	19016	TT	CC	CC	DRR	101505850	aquaporin NIP6-1-like
SNP_78600_A_19173	NW_004516020.1	scaffold590	19173	TT	CC	CC	DRR	101505850	aquaporin NIP6-1-like
SNP_78602_A_19347	NW_004516020.1	scaffold590	19347	TT	GG	GG	INTERGENIC		
SNP_78603_A_19399	NW_004516020.1	scaffold590	19399	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78604_A_19440	NW_004516020.1	scaffold590	19440	TT	CC	CC	INTERGENIC		
SNP_78605_A_19443	NW_004516020.1	scaffold590	19443	AA	CC	CC	INTERGENIC		
SNP_78607_A_19480	NW_004516020.1	scaffold590	19480	AA	TT	TT	INTERGENIC		
SNP_78608_A_19552	NW_004516020.1	scaffold590	19552	AA	GG	GG	INTERGENIC		
SNP_78609_A_19619	NW_004516020.1	scaffold590	19619	AA	CC	CC	INTERGENIC		
SNP_78610_A_47021	NW_004516020.1	scaffold590	47021	TT	CC	CC	INTERGENIC		
SNP_78612_A_103211	NW_004516020.1	scaffold590	103211	CC	TT	TT	INTERGENIC		
SNP_78613_A_106353	NW_004516020.1	scaffold590	106353	GG	AA	AA	INTERGENIC		
SNP_78614_A_114957	NW_004516020.1	scaffold590	114957	AA	CC	CC	INTERGENIC		
SNP_78615_A_115913	NW_004516020.1	scaffold590	115913	TT	CC	CC	DRR	101506172	uncharacterized LOC101506172
SNP_78616_A_115960	NW_004516020.1	scaffold590	115960	TT	CC	CC	DRR	101506172	uncharacterized LOC101506172
SNP_78617_A_115961	NW_004516020.1	scaffold590	115961	GG	AA	AA	DRR	101506172	uncharacterized LOC101506172
SNP_78618_A_116247	NW_004516020.1	scaffold590	116247	TT	CC	CC	DRR	101506172	uncharacterized LOC101506172
SNP_78619_A_146201	NW_004516020.1	scaffold590	146201	AA	GG	GG	INTERGENIC		
SNP_78620_A_146205	NW_004516020.1	scaffold590	146205	GG	AA	AA	INTERGENIC		
SNP_78621_A_146207	NW_004516020.1	scaffold590	146207	GG	AA	AA	INTERGENIC		
SNP_78622_A_146208	NW_004516020.1	scaffold590	146208	TT	CC	CC	INTERGENIC		
SNP_78623_A_146211	NW_004516020.1	scaffold590	146211	CC	TT	TT	INTERGENIC		
SNP_78624_A_175763	NW_004516020.1	scaffold590	175763	TT	CC	CC	INTERGENIC		
SNP_78625_A_203324	NW_004516020.1	scaffold590	203324	AA	TT	TT	INTERGENIC		
SNP_78626_A_220754	NW_004516020.1	scaffold590	220754	TT	CC	CC	INTERGENIC		
SNP_78627_A_220760	NW_004516020.1	scaffold590	220760	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78628_A_220809	NW_004516020.1	scaffold590	220809	AA	GG	GG	INTERGENIC			
SNP_78629_A_221001	NW_004516020.1	scaffold590	221001	CC	TT	TT	INTERGENIC			
SNP_78630_A_221007	NW_004516020.1	scaffold590	221007	AA	GG	GG	INTERGENIC			
SNP_78631_A_221011	NW_004516020.1	scaffold590	221011	TT	CC	CC	INTERGENIC			
SNP_78632_A_222058	NW_004516020.1	scaffold590	222058	TT	CC	CC	INTERGENIC			
SNP_78633_A_222064	NW_004516020.1	scaffold590	222064	GG	AA	AA	INTERGENIC			
SNP_78634_A_222220	NW_004516020.1	scaffold590	222220	TT	CC	CC	INTERGENIC			
SNP_78635_A_222265	NW_004516020.1	scaffold590	222265	CC	TT	TT	INTERGENIC			
SNP_78636_A_222418	NW_004516020.1	scaffold590	222418	CC	TT	TT	INTERGENIC			
SNP_78637_A_222421	NW_004516020.1	scaffold590	222421	TT	CC	CC	INTERGENIC			
SNP_78638_A_222439	NW_004516020.1	scaffold590	222439	AA	TT	TT	INTERGENIC			
SNP_78639_A_222451	NW_004516020.1	scaffold590	222451	AA	TT	TT	INTERGENIC			
SNP_78640_A_222457	NW_004516020.1	scaffold590	222457	AA	GG	GG	INTERGENIC			
SNP_78641_A_222474	NW_004516020.1	scaffold590	222474	CC	TT	TT	INTERGENIC			
SNP_78642_A_222514	NW_004516020.1	scaffold590	222514	CC	TT	TT	INTERGENIC			
SNP_78643_A_222516	NW_004516020.1	scaffold590	222516	AA	TT	TT	INTERGENIC			
SNP_78644_A_222532	NW_004516020.1	scaffold590	222532	TT	AA	AA	INTERGENIC			
SNP_78645_A_222567	NW_004516020.1	scaffold590	222567	AA	TT	TT	INTERGENIC			
SNP_78646_A_222681	NW_004516020.1	scaffold590	222681	TT	GG	GG	INTERGENIC			
SNP_78647_A_231455	NW_004516020.1	scaffold590	231455	GG	AA	AA	INTERGENIC			
SNP_78648_A_235489	NW_004516020.1	scaffold590	235489	GG	AA	AA	INTERGENIC			
SNP_78649_A_235575	NW_004516020.1	scaffold590	235575	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78650_A_266484	NW_004516020.1	scaffold590	266484	CC	TT	TT	INTERGENIC			
SNP_78651_A_266512	NW_004516020.1	scaffold590	266512	AA	TT	TT	INTERGENIC			
SNP_78652_A_295295	NW_004516020.1	scaffold590	295295	GG	TT	TT	INTERGENIC			
SNP_78653_A_8148	NW_004516022.1	scaffold592	8148	TT	CC	CC	INTERGENIC			
SNP_78654_A_8174	NW_004516022.1	scaffold592	8174	AA	GG	GG	INTERGENIC			
SNP_78655_A_8245	NW_004516022.1	scaffold592	8245	CC	GG	GG	INTERGENIC			
SNP_78656_A_8425	NW_004516022.1	scaffold592	8425	GG	AA	AA	INTERGENIC			
SNP_78657_A_8548	NW_004516022.1	scaffold592	8548	CC	GG	GG	INTERGENIC			
SNP_78658_A_8575	NW_004516022.1	scaffold592	8575	TT	CC	CC	INTERGENIC			
SNP_78659_A_8578	NW_004516022.1	scaffold592	8578	TT	CC	CC	INTERGENIC			
SNP_78660_A_8707	NW_004516022.1	scaffold592	8707	AA	TT	TT	INTERGENIC			
SNP_78661_A_8816	NW_004516022.1	scaffold592	8816	CC	TT	TT	INTERGENIC			
SNP_78662_A_8891	NW_004516022.1	scaffold592	8891	CC	TT	TT	INTERGENIC			
SNP_78663_A_8964	NW_004516022.1	scaffold592	8964	GG	TT	TT	INTERGENIC			
SNP_78664_A_10312	NW_004516022.1	scaffold592	10312	AA	TT	TT	INTERGENIC			
SNP_78665_A_10383	NW_004516022.1	scaffold592	10383	AA	CC	CC	INTERGENIC			
SNP_78666_A_10384	NW_004516022.1	scaffold592	10384	CC	AA	AA	INTERGENIC			
SNP_78667_A_10683	NW_004516022.1	scaffold592	10683	TT	GG	GG	INTERGENIC			
SNP_78668_A_16012	NW_004516022.1	scaffold592	16012	CC	GG	GG	INTERGENIC			
SNP_78670_A_16940	NW_004516022.1	scaffold592	16940	CC	TT	TT	INTERGENIC			
SNP_78671_A_16964	NW_004516022.1	scaffold592	16964	GG	TT	TT	INTERGENIC			
SNP_78672_A_17939	NW_004516022.1	scaffold592	17939	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78673_A_18212	NW_004516022.1	scaffold592	18212	GG	AA	AA	INTERGENIC			
SNP_78675_A_20295	NW_004516022.1	scaffold592	20295	CC	AA	AA	INTERGENIC			
SNP_78676_A_20768	NW_004516022.1	scaffold592	20768	GG	AA	AA	INTERGENIC			
SNP_78677_A_20780	NW_004516022.1	scaffold592	20780	AA	TT	TT	INTERGENIC			
SNP_78678_A_20790	NW_004516022.1	scaffold592	20790	TT	CC	CC	INTERGENIC			
SNP_78679_A_20795	NW_004516022.1	scaffold592	20795	TT	AA	AA	INTERGENIC			
SNP_78680_A_20796	NW_004516022.1	scaffold592	20796	GG	CC	CC	INTERGENIC			
SNP_78682_A_21636	NW_004516022.1	scaffold592	21636	GG	CC	CC	INTERGENIC			
SNP_78683_A_21698	NW_004516022.1	scaffold592	21698	GG	AA	AA	INTERGENIC			
SNP_78684_A_21705	NW_004516022.1	scaffold592	21705	TT	GG	GG	INTERGENIC			
SNP_78685_A_22788	NW_004516022.1	scaffold592	22788	TT	AA	AA	INTERGENIC			
SNP_78686_A_23086	NW_004516022.1	scaffold592	23086	CC	TT	TT	INTERGENIC			
SNP_78687_A_23091	NW_004516022.1	scaffold592	23091	GG	TT	TT	INTERGENIC			
SNP_78688_A_38443	NW_004516022.1	scaffold592	38443	AA	GG	GG	INTERGENIC			
SNP_78689_A_42427	NW_004516022.1	scaffold592	42427	CC	TT	TT	INTERGENIC			
SNP_78691_A_10609	NW_004516023.1	scaffold593	10609	CC	TT	TT	INTERGENIC			
SNP_78692_A_10638	NW_004516023.1	scaffold593	10638	CC	TT	TT	INTERGENIC			
SNP_78693_A_10641	NW_004516023.1	scaffold593	10641	GG	AA	AA	INTERGENIC			
SNP_78694_A_20041	NW_004516023.1	scaffold593	20041	GG	AA	AA	INTERGENIC			
SNP_78695_A_26961	NW_004516023.1	scaffold593	26961	CC	TT	TT	INTERGENIC			
SNP_78696_A_31677	NW_004516023.1	scaffold593	31677	GG	AA	AA	INTERGENIC			
SNP_78697_A_45027	NW_004516023.1	scaffold593	45027	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78698_A_49932	NW_004516023.1	scaffold593	49932	CC	AA	AA	INTERGENIC			
SNP_78699_A_60203	NW_004516023.1	scaffold593	60203	GG	AA	AA	INTERGENIC			
SNP_78701_A_134749	NW_004516023.1	scaffold593	134749	AA	GG	GG	INTERGENIC			
SNP_78703_A_182163	NW_004516023.1	scaffold593	182163	TT	CC	CC	INTERGENIC			
SNP_78704_A_186391	NW_004516023.1	scaffold593	186391	GG	AA	AA	INTERGENIC			
SNP_78705_A_187944	NW_004516023.1	scaffold593	187944	TT	CC	CC	INTERGENIC			
SNP_78707_A_192585	NW_004516023.1	scaffold593	192585	AA	GG	GG	INTERGENIC			
SNP_78708_A_194935	NW_004516023.1	scaffold593	194935	AA	GG	GG	INTERGENIC			
SNP_78709_A_194946	NW_004516023.1	scaffold593	194946	CC	TT	TT	INTERGENIC			
SNP_78710_A_195246	NW_004516023.1	scaffold593	195246	GG	AA	AA	INTERGENIC			
SNP_78711_A_195257	NW_004516023.1	scaffold593	195257	GG	AA	AA	INTERGENIC			
SNP_78712_A_195258	NW_004516023.1	scaffold593	195258	CC	TT	TT	INTERGENIC			
SNP_78713_A_208876	NW_004516023.1	scaffold593	208876	TT	GG	GG	INTERGENIC			
SNP_78714_A_208927	NW_004516023.1	scaffold593	208927	TT	CC	CC	INTERGENIC			
SNP_78715_A_208960	NW_004516023.1	scaffold593	208960	CC	TT	TT	INTERGENIC			
SNP_78716_A_208980	NW_004516023.1	scaffold593	208980	GG	CC	CC	INTERGENIC			
SNP_78717_A_209018	NW_004516023.1	scaffold593	209018	AA	TT	TT	INTERGENIC			
SNP_78718_A_209024	NW_004516023.1	scaffold593	209024	TT	CC	CC	INTERGENIC			
SNP_78719_A_209043	NW_004516023.1	scaffold593	209043	TT	CC	CC	INTERGENIC			
SNP_78720_A_209056	NW_004516023.1	scaffold593	209056	CC	AA	AA	INTERGENIC			
SNP_78721_A_209065	NW_004516023.1	scaffold593	209065	CC	AA	AA	INTERGENIC			
SNP_78722_A_209071	NW_004516023.1	scaffold593	209071	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78723_A_209093	NW_004516023.1	scaffold593	209093	GG	AA	AA	INTERGENIC		
SNP_78724_A_209096	NW_004516023.1	scaffold593	209096	AA	GG	GG	INTERGENIC		
SNP_78725_A_209100	NW_004516023.1	scaffold593	209100	TT	CC	CC	INTERGENIC		
SNP_78726_A_209102	NW_004516023.1	scaffold593	209102	GG	AA	AA	INTERGENIC		
SNP_78727_A_209121	NW_004516023.1	scaffold593	209121	CC	AA	AA	INTERGENIC		
SNP_78728_A_209211	NW_004516023.1	scaffold593	209211	CC	TT	TT	INTERGENIC		
SNP_78729_A_209326	NW_004516023.1	scaffold593	209326	AA	TT	TT	INTERGENIC		
SNP_78730_A_209366	NW_004516023.1	scaffold593	209366	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78731_A_209368	NW_004516023.1	scaffold593	209368	AA	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78732_A_209463	NW_004516023.1	scaffold593	209463	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78734_A_209483	NW_004516023.1	scaffold593	209483	CC	TT	TT	DRR	101508436	probable polygalacturonase At3g15720
SNP_78735_A_209509	NW_004516023.1	scaffold593	209509	CC	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78736_A_209513	NW_004516023.1	scaffold593	209513	TT	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78737_A_209551	NW_004516023.1	scaffold593	209551	AA	TT	TT	DRR	101508436	probable polygalacturonase At3g15720
SNP_78738_A_209608	NW_004516023.1	scaffold593	209608	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78739_A_209633	NW_004516023.1	scaffold593	209633	CC	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78740_A_209661	NW_004516023.1	scaffold593	209661	TT	CC	CC	DRR	101508436	probable polygalacturonase At3g15720
SNP_78742_A_209718	NW_004516023.1	scaffold593	209718	TT	CC	CC	DRR	101508436	probable polygalacturonase At3g15720
SNP_78743_A_209735	NW_004516023.1	scaffold593	209735	AA	CC	CC	DRR	101508436	probable polygalacturonase At3g15720
SNP_78744_A_209927	NW_004516023.1	scaffold593	209927	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78745_A_209934	NW_004516023.1	scaffold593	209934	AA	TT	TT	DRR	101508436	probable polygalacturonase At3g15720
SNP_78746_A_209936	NW_004516023.1	scaffold593	209936	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78747_A_209974	NW_004516023.1	scaffold593	209974	GG	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78748_A_210112	NW_004516023.1	scaffold593	210112	AA	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78749_A_210127	NW_004516023.1	scaffold593	210127	CC	TT	TT	DRR	101508436	probable polygalacturonase At3g15720
SNP_78750_A_210149	NW_004516023.1	scaffold593	210149	AA	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78751_A_210156	NW_004516023.1	scaffold593	210156	CC	TT	TT	DRR	101508436	probable polygalacturonase At3g15720
SNP_78752_A_210192	NW_004516023.1	scaffold593	210192	TT	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78753_A_210203	NW_004516023.1	scaffold593	210203	CC	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78754_A_210217	NW_004516023.1	scaffold593	210217	CC	AA	AA	DRR	101508436	probable polygalacturonase At3g15720
SNP_78755_A_210235	NW_004516023.1	scaffold593	210235	AA	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78756_A_210290	NW_004516023.1	scaffold593	210290	GG	CC	CC	DRR	101508436	probable polygalacturonase At3g15720
SNP_78757_A_210315	NW_004516023.1	scaffold593	210315	GG	CC	CC	DRR	101508436	probable polygalacturonase At3g15720
SNP_78758_A_210347	NW_004516023.1	scaffold593	210347	AA	GG	GG	DRR	101508436	probable polygalacturonase At3g15720
SNP_78759_A_210642	NW_004516023.1	scaffold593	210642	AA	CC	CC	INTRON	101508436	probable polygalacturonase At3g15720
SNP_78760_A_211606	NW_004516023.1	scaffold593	211606	TT	AA	AA	URR	101508436	probable polygalacturonase At3g15720
SNP_78761_A_211609	NW_004516023.1	scaffold593	211609	CC	TT	TT	URR	101508436	probable polygalacturonase At3g15720
SNP_78763_A_64	NW_004516027.1	scaffold597	64	AA	GG	GG	INTERGENIC		
SNP_78764_A_6921	NW_004516028.1	scaffold598	6921	TT	AA	AA	INTERGENIC		
SNP_78765_A_7384	NW_004516028.1	scaffold598	7384	GG	TT	TT	INTERGENIC		
SNP_78766_A_21761	NW_004516028.1	scaffold598	21761	CC	TT	TT	INTERGENIC		
SNP_78767_A_21895	NW_004516028.1	scaffold598	21895	AA	TT	TT	INTERGENIC		
SNP_78768_A_21968	NW_004516028.1	scaffold598	21968	GG	TT	TT	INTERGENIC		
SNP_78769_A_21991	NW_004516028.1	scaffold598	21991	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78770_A_21993	NW_004516028.1	scaffold598	21993	TT	AA	AA	INTERGENIC			
SNP_78771_A_22032	NW_004516028.1	scaffold598	22032	CC	TT	TT	INTERGENIC			
SNP_78772_A_22039	NW_004516028.1	scaffold598	22039	AA	CC	CC	INTERGENIC			
SNP_78773_A_22041	NW_004516028.1	scaffold598	22041	CC	AA	AA	INTERGENIC			
SNP_78774_A_22045	NW_004516028.1	scaffold598	22045	AA	TT	TT	INTERGENIC			
SNP_78775_A_22129	NW_004516028.1	scaffold598	22129	GG	TT	TT	INTERGENIC			
SNP_78776_A_29943	NW_004516028.1	scaffold598	29943	GG	AA	AA	INTERGENIC			
SNP_78777_A_37042	NW_004516028.1	scaffold598	37042	AA	GG	GG	INTERGENIC			
SNP_78778_A_38202	NW_004516028.1	scaffold598	38202	GG	AA	AA	INTERGENIC			
SNP_78779_A_46374	NW_004516028.1	scaffold598	46374	AA	GG	GG	INTERGENIC			
SNP_78780_A_74060	NW_004516028.1	scaffold598	74060	AA	TT	TT	INTERGENIC			
SNP_78781_A_84135	NW_004516028.1	scaffold598	84135	TT	AA	AA	INTERGENIC			
SNP_78782_A_93357	NW_004516028.1	scaffold598	93357	GG	CC	CC	INTERGENIC			
SNP_78783_A_125584	NW_004516028.1	scaffold598	125584	TT	CC	CC	INTERGENIC			
SNP_78784_A_126025	NW_004516028.1	scaffold598	126025	CC	TT	TT	INTERGENIC			
SNP_78785_A_126078	NW_004516028.1	scaffold598	126078	TT	CC	CC	INTERGENIC			
SNP_78786_A_126090	NW_004516028.1	scaffold598	126090	AA	TT	TT	INTERGENIC			
SNP_78787_A_126091	NW_004516028.1	scaffold598	126091	TT	AA	AA	INTERGENIC			
SNP_78788_A_126104	NW_004516028.1	scaffold598	126104	CC	AA	AA	INTERGENIC			
SNP_78791_A_131902	NW_004516028.1	scaffold598	131902	GG	CC	CC	DRR	101509590	triacylglycerol lipase SDP1	
SNP_78792_A_155929	NW_004516028.1	scaffold598	155929	GG	AA	AA	INTERGENIC			
SNP_78793_A_158574	NW_004516028.1	scaffold598	158574	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78795_A_183575	NW_004516028.1	scaffold598	183575	GG	AA	AA	INTERGENIC		
SNP_78796_A_188999	NW_004516028.1	scaffold598	188999	AA	GG	GG	INTERGENIC		
SNP_78797_A_223649	NW_004516028.1	scaffold598	223649	TT	CC	CC	INTERGENIC		
SNP_78798_A_231232	NW_004516028.1	scaffold598	231232	CC	TT	TT	INTERGENIC		
SNP_78799_A_231246	NW_004516028.1	scaffold598	231246	AA	TT	TT	INTERGENIC		
SNP_78800_A_231288	NW_004516028.1	scaffold598	231288	TT	CC	CC	INTERGENIC		
SNP_78801_A_231380	NW_004516028.1	scaffold598	231380	AA	GG	GG	INTERGENIC		
SNP_78802_A_231454	NW_004516028.1	scaffold598	231454	AA	CC	CC	INTERGENIC		
SNP_78803_A_231473	NW_004516028.1	scaffold598	231473	TT	AA	AA	INTERGENIC		
SNP_78804_A_232505	NW_004516028.1	scaffold598	232505	AA	TT	TT	INTERGENIC		
SNP_78806_A_236900	NW_004516028.1	scaffold598	236900	AA	GG	GG	INTERGENIC		
SNP_78807_A_245326	NW_004516028.1	scaffold598	245326	AA	TT	TT	INTERGENIC		
SNP_78808_A_245415	NW_004516028.1	scaffold598	245415	TT	CC	CC	INTERGENIC		
SNP_78809_A_271340	NW_004516028.1	scaffold598	271340	GG	AA	AA	INTERGENIC		
SNP_78810_A_302579	NW_004516028.1	scaffold598	302579	AA	TT	TT	URR	101510237	probable F-box protein At5g04010
SNP_78811_A_303396	NW_004516028.1	scaffold598	303396	TT	CC	CC	INTERGENIC		
SNP_78812_A_304295	NW_004516028.1	scaffold598	304295	GG	CC	CC	INTERGENIC		
SNP_78814_A_315335	NW_004516028.1	scaffold598	315335	GG	CC	CC	URR	101510571	RNA-binding protein 12-like
SNP_78815_A_315355	NW_004516028.1	scaffold598	315355	AA	TT	TT	URR	101510571	RNA-binding protein 12-like
SNP_78816_A_315375	NW_004516028.1	scaffold598	315375	TT	GG	GG	URR	101510571	RNA-binding protein 12-like
SNP_78817_A_316004	NW_004516028.1	scaffold598	316004	CC	AA	AA	DRR	101514879	uncharacterized LOC101514879
SNP_78819_A_353169	NW_004516028.1	scaffold598	353169	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78820_A_356272	NW_004516028.1	scaffold598	356272	AA	CC	CC	INTERGENIC		
SNP_78821_A_364195	NW_004516028.1	scaffold598	364195	CC	TT	TT	INTERGENIC		
SNP_78822_A_368138	NW_004516028.1	scaffold598	368138	AA	GG	GG	DRR	101488279	uncharacterized LOC101488279
SNP_78823_A_368297	NW_004516028.1	scaffold598	368297	CC	AA	AA	DRR	101488279	uncharacterized LOC101488279
SNP_78824_A_368309	NW_004516028.1	scaffold598	368309	GG	AA	AA	DRR	101488279	uncharacterized LOC101488279
SNP_78825_A_368317	NW_004516028.1	scaffold598	368317	AA	CC	CC	DRR	101488279	uncharacterized LOC101488279
SNP_78827_A_392724	NW_004516028.1	scaffold598	392724	CC	AA	AA	INTERGENIC		
SNP_78828_A_401706	NW_004516028.1	scaffold598	401706	GG	AA	AA	INTERGENIC		
SNP_78829_A_402617	NW_004516028.1	scaffold598	402617	TT	CC	CC	INTERGENIC		
SNP_78830_A_402638	NW_004516028.1	scaffold598	402638	TT	CC	CC	INTERGENIC		
SNP_78831_A_405457	NW_004516028.1	scaffold598	405457	GG	CC	CC	INTERGENIC		
SNP_78832_A_434225	NW_004516028.1	scaffold598	434225	GG	AA	AA	INTERGENIC		
SNP_78833_A_445378	NW_004516028.1	scaffold598	445378	TT	CC	CC	INTERGENIC		
SNP_78834_A_446309	NW_004516028.1	scaffold598	446309	CC	TT	TT	INTERGENIC		
SNP_78835_A_449415	NW_004516028.1	scaffold598	449415	AA	TT	TT	INTERGENIC		
SNP_78836_A_455163	NW_004516028.1	scaffold598	455163	AA	TT	TT	INTERGENIC		
SNP_78837_A_455166	NW_004516028.1	scaffold598	455166	TT	AA	AA	INTERGENIC		
SNP_78838_A_455172	NW_004516028.1	scaffold598	455172	AA	GG	GG	INTERGENIC		
SNP_78839_A_455307	NW_004516028.1	scaffold598	455307	TT	AA	AA	INTERGENIC		
SNP_78840_A_455427	NW_004516028.1	scaffold598	455427	AA	TT	TT	INTERGENIC		
SNP_78841_A_455433	NW_004516028.1	scaffold598	455433	TT	CC	CC	INTERGENIC		
SNP_78842_A_455445	NW_004516028.1	scaffold598	455445	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78843_A_455457	NW_004516028.1	scaffold598	455457	CC	TT	TT	INTERGENIC			
SNP_78844_A_455460	NW_004516028.1	scaffold598	455460	AA	CC	CC	INTERGENIC			
SNP_78845_A_455511	NW_004516028.1	scaffold598	455511	AA	GG	GG	INTERGENIC			
SNP_78846_A_456712	NW_004516028.1	scaffold598	456712	CC	TT	TT	INTERGENIC			
SNP_78847_A_458027	NW_004516028.1	scaffold598	458027	GG	AA	AA	INTERGENIC			
SNP_78848_A_459198	NW_004516028.1	scaffold598	459198	GG	AA	AA	INTERGENIC			
SNP_78849_A_472624	NW_004516028.1	scaffold598	472624	GG	TT	TT	INTERGENIC			
SNP_78850_A_476107	NW_004516028.1	scaffold598	476107	AA	TT	TT	INTERGENIC			
SNP_78852_A_478492	NW_004516028.1	scaffold598	478492	TT	CC	CC	INTERGENIC			
SNP_78853_A_484270	NW_004516028.1	scaffold598	484270	AA	GG	GG	INTERGENIC			
SNP_78854_A_535715	NW_004516028.1	scaffold598	535715	TT	CC	CC	INTERGENIC			
SNP_78855_A_549212	NW_004516028.1	scaffold598	549212	TT	CC	CC	INTERGENIC			
SNP_78856_A_553177	NW_004516028.1	scaffold598	553177	CC	TT	TT	INTERGENIC			
SNP_78857_A_561325	NW_004516028.1	scaffold598	561325	TT	AA	AA	INTERGENIC			
SNP_78859_A_563965	NW_004516028.1	scaffold598	563965	TT	CC	CC	INTERGENIC			
SNP_78860_A_565308	NW_004516028.1	scaffold598	565308	CC	TT	TT	INTERGENIC			
SNP_78861_A_565340	NW_004516028.1	scaffold598	565340	GG	AA	AA	INTERGENIC			
SNP_78862_A_568491	NW_004516028.1	scaffold598	568491	TT	CC	CC	INTERGENIC			
SNP_78864_A_5441	NW_004516029.1	scaffold599	5441	CC	TT	TT	INTERGENIC			
SNP_78865_A_6790	NW_004516029.1	scaffold599	6790	AA	TT	TT	INTERGENIC			
SNP_78866_A_6874	NW_004516029.1	scaffold599	6874	AA	TT	TT	INTERGENIC			
SNP_78867_A_6876	NW_004516029.1	scaffold599	6876	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78868_A_7248	NW_004516029.1	scaffold599	7248	GG	TT	TT	INTERGENIC			
SNP_78869_A_7260	NW_004516029.1	scaffold599	7260	GG	AA	AA	INTERGENIC			
SNP_78870_A_7281	NW_004516029.1	scaffold599	7281	AA	TT	TT	INTERGENIC			
SNP_78871_A_7971	NW_004516029.1	scaffold599	7971	CC	GG	GG	INTERGENIC			
SNP_78872_A_9658	NW_004516029.1	scaffold599	9658	TT	CC	CC	INTERGENIC			
SNP_78873_A_9749	NW_004516029.1	scaffold599	9749	CC	AA	AA	INTERGENIC			
SNP_78874_A_9980	NW_004516029.1	scaffold599	9980	CC	AA	AA	INTERGENIC			
SNP_78875_A_9983	NW_004516029.1	scaffold599	9983	CC	TT	TT	INTERGENIC			
SNP_78876_A_10084	NW_004516029.1	scaffold599	10084	TT	AA	AA	INTERGENIC			
SNP_78877_A_10097	NW_004516029.1	scaffold599	10097	GG	AA	AA	INTERGENIC			
SNP_78878_A_10167	NW_004516029.1	scaffold599	10167	CC	GG	GG	INTERGENIC			
SNP_78879_A_10170	NW_004516029.1	scaffold599	10170	GG	CC	CC	INTERGENIC			
SNP_78880_A_10251	NW_004516029.1	scaffold599	10251	CC	TT	TT	INTERGENIC			
SNP_78881_A_10262	NW_004516029.1	scaffold599	10262	TT	AA	AA	INTERGENIC			
SNP_78882_A_10731	NW_004516029.1	scaffold599	10731	GG	AA	AA	INTERGENIC			
SNP_78883_A_11125	NW_004516029.1	scaffold599	11125	GG	AA	AA	INTERGENIC			
SNP_78884_A_12968	NW_004516029.1	scaffold599	12968	CC	TT	TT	INTERGENIC			
SNP_78885_A_22365	NW_004516029.1	scaffold599	22365	TT	CC	CC	INTERGENIC			
SNP_78886_A_23825	NW_004516029.1	scaffold599	23825	GG	AA	AA	INTERGENIC			
SNP_78887_A_24656	NW_004516029.1	scaffold599	24656	CC	AA	AA	INTERGENIC			
SNP_78888_A_26776	NW_004516029.1	scaffold599	26776	AA	CC	CC	INTERGENIC			
SNP_78889_A_29021	NW_004516029.1	scaffold599	29021	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78890_A_29267	NW_004516029.1	scaffold599	29267	CC	AA	AA	INTERGENIC			
SNP_78891_A_39283	NW_004516029.1	scaffold599	39283	AA	GG	GG	INTERGENIC			
SNP_78892_A_39395	NW_004516029.1	scaffold599	39395	AA	TT	TT	INTERGENIC			
SNP_78893_A_39423	NW_004516029.1	scaffold599	39423	AA	TT	TT	INTERGENIC			
SNP_78894_A_39424	NW_004516029.1	scaffold599	39424	TT	GG	GG	INTERGENIC			
SNP_78895_A_39441	NW_004516029.1	scaffold599	39441	AA	GG	GG	INTERGENIC			
SNP_78896_A_40452	NW_004516029.1	scaffold599	40452	AA	GG	GG	INTERGENIC			
SNP_78897_A_48042	NW_004516029.1	scaffold599	48042	GG	CC	CC	INTERGENIC			
SNP_78898_A_51081	NW_004516029.1	scaffold599	51081	TT	CC	CC	INTERGENIC			
SNP_78899_A_51090	NW_004516029.1	scaffold599	51090	GG	AA	AA	INTERGENIC			
SNP_78900_A_54441	NW_004516029.1	scaffold599	54441	TT	CC	CC	INTERGENIC			
SNP_78902_A_5951	NW_004516029.1	scaffold599	5951	TT	CC	CC	INTERGENIC			
SNP_78903_A_56239	NW_004516029.1	scaffold599	56239	CC	AA	AA	INTERGENIC			
SNP_78904_A_56457	NW_004516029.1	scaffold599	56457	AA	GG	GG	INTERGENIC			
SNP_78905_A_57011	NW_004516029.1	scaffold599	57011	GG	AA	AA	INTERGENIC			
SNP_78906_A_57016	NW_004516029.1	scaffold599	57016	TT	CC	CC	INTERGENIC			
SNP_78907_A_57025	NW_004516029.1	scaffold599	57025	AA	GG	GG	INTERGENIC			
SNP_78908_A_57027	NW_004516029.1	scaffold599	57027	TT	CC	CC	INTERGENIC			
SNP_78909_A_57069	NW_004516029.1	scaffold599	57069	AA	GG	GG	INTERGENIC			
SNP_78910_A_57072	NW_004516029.1	scaffold599	57072	CC	GG	GG	INTERGENIC			
SNP_78911_A_57155	NW_004516029.1	scaffold599	57155	CC	GG	GG	INTERGENIC			
SNP_78913_A_57422	NW_004516029.1	scaffold599	57422	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78914_A_57584	NW_004516029.1	scaffold599	57584	CC	GG	GG	INTERGENIC		
SNP_78915_A_58380	NW_004516029.1	scaffold599	58380	GG	TT	TT	INTERGENIC		
SNP_78916_A_58576	NW_004516029.1	scaffold599	58576	GG	AA	AA	INTERGENIC		
SNP_78918_A_58902	NW_004516029.1	scaffold599	58902	TT	GG	GG	INTERGENIC		
SNP_78919_A_59085	NW_004516029.1	scaffold599	59085	TT	AA	AA	INTERGENIC		
SNP_78920_A_59544	NW_004516029.1	scaffold599	59544	CC	GG	GG	INTERGENIC		
SNP_78921_A_76243	NW_004516029.1	scaffold599	76243	GG	AA	AA	INTERGENIC		
SNP_78922_A_76553	NW_004516029.1	scaffold599	76553	CC	AA	AA	INTERGENIC		
SNP_78923_A_76783	NW_004516029.1	scaffold599	76783	AA	CC	CC	INTERGENIC		
SNP_78924_A_85889	NW_004516029.1	scaffold599	85889	TT	GG	GG	INTERGENIC		
SNP_78926_A_93010	NW_004516029.1	scaffold599	93010	GG	AA	AA	INTERGENIC		
SNP_78928_A_94367	NW_004516029.1	scaffold599	94367	AA	TT	TT	INTERGENIC		
SNP_78929_A_97103	NW_004516029.1	scaffold599	97103	CC	TT	TT	INTERGENIC		
SNP_78930_A_98867	NW_004516029.1	scaffold599	98867	CC	TT	TT	INTERGENIC		
SNP_78931_A_98905	NW_004516029.1	scaffold599	98905	GG	AA	AA	INTERGENIC		
SNP_78932_A_103023	NW_004516029.1	scaffold599	103023	AA	GG	GG	INTRON	101491432	uncharacterized LOC101491432
SNP_78933_A_103271	NW_004516029.1	scaffold599	103271	TT	CC	CC	INTRON	101491432	uncharacterized LOC101491432
SNP_78934_A_103885	NW_004516029.1	scaffold599	103885	CC	TT	TT	NON_SYNONYMOUS_CODING	101491432	uncharacterized LOC101491432
SNP_78935_A_104003	NW_004516029.1	scaffold599	104003	CC	AA	AA	NON_SYNONYMOUS_CODING	101491432	uncharacterized LOC101491432
SNP_78936_A_109985	NW_004516029.1	scaffold599	109985	GG	AA	AA	INTERGENIC		
SNP_78937_A_113200	NW_004516029.1	scaffold599	113200	AA	GG	GG	INTERGENIC		
SNP_78939_A_120579	NW_004516029.1	scaffold599	120579	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78941_A_132152	NW_004516029.1	scaffold599	132152	AA	TT	TT	DRR		101489926	probable acetyltransferase NATA1-like
SNP_78942_A_132154	NW_004516029.1	scaffold599	132154	TT	GG	GG	DRR		101489926	probable acetyltransferase NATA1-like
SNP_78943_A_153175	NW_004516029.1	scaffold599	153175	AA	GG	GG	INTERGENIC			
SNP_78944_A_153212	NW_004516029.1	scaffold599	153212	TT	CC	CC	INTERGENIC			
SNP_78945_A_160269	NW_004516029.1	scaffold599	160269	TT	CC	CC	INTERGENIC			
SNP_78946_A_169637	NW_004516029.1	scaffold599	169637	GG	AA	AA	INTERGENIC			
SNP_78947_A_172384	NW_004516029.1	scaffold599	172384	TT	CC	CC	INTERGENIC			
SNP_78948_A_183021	NW_004516029.1	scaffold599	183021	GG	AA	AA	INTERGENIC			
SNP_78949_A_183024	NW_004516029.1	scaffold599	183024	GG	CC	CC	INTERGENIC			
SNP_78951_A_188113	NW_004516029.1	scaffold599	188113	AA	GG	GG	INTERGENIC			
SNP_78952_A_189765	NW_004516029.1	scaffold599	189765	GG	AA	AA	INTERGENIC			
SNP_78953_A_195344	NW_004516029.1	scaffold599	195344	TT	CC	CC	INTERGENIC			
SNP_78954_A_196382	NW_004516029.1	scaffold599	196382	CC	TT	TT	INTERGENIC			
SNP_78955_A_203057	NW_004516029.1	scaffold599	203057	AA	TT	TT	INTERGENIC			
SNP_78956_A_203062	NW_004516029.1	scaffold599	203062	TT	AA	AA	INTERGENIC			
SNP_78957_A_203063	NW_004516029.1	scaffold599	203063	CC	TT	TT	INTERGENIC			
SNP_78958_A_205142	NW_004516029.1	scaffold599	205142	GG	AA	AA	INTERGENIC			
SNP_78959_A_208871	NW_004516029.1	scaffold599	208871	GG	AA	AA	INTERGENIC			
SNP_78960_A_212029	NW_004516029.1	scaffold599	212029	GG	AA	AA	INTERGENIC			
SNP_78961_A_240964	NW_004516029.1	scaffold599	240964	GG	TT	TT	INTERGENIC			
SNP_78962_A_242472	NW_004516029.1	scaffold599	242472	CC	TT	TT	DRR		101491745	Unknown function
SNP_78963_A_242834	NW_004516029.1	scaffold599	242834	AA	GG	GG	DRR		101491745	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_78964_A_242955	NW_004516029.1	scaffold599	242955	AA	TT	TT	DRR	101491745	Unknown function
SNP_78965_A_247046	NW_004516029.1	scaffold599	247046	TT	CC	CC	INTERGENIC		
SNP_78966_A_249557	NW_004516029.1	scaffold599	249557	TT	AA	AA	INTERGENIC		
SNP_78967_A_255862	NW_004516029.1	scaffold599	255862	AA	TT	TT	DRR	101490467	uncharacterized LOC101490467
SNP_78968_A_265656	NW_004516029.1	scaffold599	265656	AA	CC	CC	INTERGENIC		
SNP_78969_A_279334	NW_004516029.1	scaffold599	279334	AA	CC	CC	INTERGENIC		
SNP_78970_A_281690	NW_004516029.1	scaffold599	281690	GG	AA	AA	INTERGENIC		
SNP_78972_A_284600	NW_004516029.1	scaffold599	284600	AA	TT	TT	INTERGENIC		
SNP_78973_A_284637	NW_004516029.1	scaffold599	284637	CC	TT	TT	INTERGENIC		
SNP_78975_A_284709	NW_004516029.1	scaffold599	284709	CC	TT	TT	INTERGENIC		
SNP_78976_A_284956	NW_004516029.1	scaffold599	284956	AA	GG	GG	INTERGENIC		
SNP_78977_A_285955	NW_004516029.1	scaffold599	285955	TT	GG	GG	INTERGENIC		
SNP_78978_A_286324	NW_004516029.1	scaffold599	286324	GG	CC	CC	DRR	101490792	TPD1 protein homolog 1-like
SNP_78980_A_286894	NW_004516029.1	scaffold599	286894	AA	GG	GG	DRR	101490792	TPD1 protein homolog 1-like
SNP_78981_A_286982	NW_004516029.1	scaffold599	286982	CC	AA	AA	DRR	101490792	TPD1 protein homolog 1-like
SNP_78982_A_287177	NW_004516029.1	scaffold599	287177	CC	AA	AA	DRR	101490792	TPD1 protein homolog 1-like
SNP_78984_A_288938	NW_004516029.1	scaffold599	288938	TT	CC	CC	URR	101490792	TPD1 protein homolog 1-like
SNP_78985_A_291347	NW_004516029.1	scaffold599	291347	GG	AA	AA	INTERGENIC		
SNP_78987_A_291775	NW_004516029.1	scaffold599	291775	AA	GG	GG	INTERGENIC		
SNP_78988_A_292547	NW_004516029.1	scaffold599	292547	AA	GG	GG	INTERGENIC		
SNP_78989_A_292976	NW_004516029.1	scaffold599	292976	AA	GG	GG	INTERGENIC		
SNP_78990_A_293519	NW_004516029.1	scaffold599	293519	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_78991_A_293976	NW_004516029.1	scaffold599	293976	TT	AA	AA	INTERGENIC			
SNP_78992_A_294511	NW_004516029.1	scaffold599	294511	TT	CC	CC	INTERGENIC			
SNP_78993_A_294826	NW_004516029.1	scaffold599	294826	CC	TT	TT	INTERGENIC			
SNP_78994_A_295464	NW_004516029.1	scaffold599	295464	TT	CC	CC	INTERGENIC			
SNP_78995_A_296753	NW_004516029.1	scaffold599	296753	GG	AA	AA	INTERGENIC			
SNP_78996_A_296785	NW_004516029.1	scaffold599	296785	AA	GG	GG	INTERGENIC			
SNP_78997_A_296851	NW_004516029.1	scaffold599	296851	CC	TT	TT	INTERGENIC			
SNP_78998_A_297509	NW_004516029.1	scaffold599	297509	AA	CC	CC	INTERGENIC			
SNP_78999_A_299195	NW_004516029.1	scaffold599	299195	TT	CC	CC	INTERGENIC			
SNP_79000_A_299395	NW_004516029.1	scaffold599	299395	AA	GG	GG	INTERGENIC			
SNP_79001_A_300980	NW_004516029.1	scaffold599	300980	CC	TT	TT	INTERGENIC			
SNP_79002_A_302211	NW_004516029.1	scaffold599	302211	TT	CC	CC	INTERGENIC			
SNP_79003_A_302989	NW_004516029.1	scaffold599	302989	GG	TT	TT	INTERGENIC			
SNP_79004_A_303328	NW_004516029.1	scaffold599	303328	TT	CC	CC	INTERGENIC			
SNP_79005_A_305581	NW_004516029.1	scaffold599	305581	GG	AA	AA	INTERGENIC			
SNP_79006_A_306296	NW_004516029.1	scaffold599	306296	AA	GG	GG	INTERGENIC			
SNP_79007_A_306304	NW_004516029.1	scaffold599	306304	GG	TT	TT	INTERGENIC			
SNP_79008_A_306387	NW_004516029.1	scaffold599	306387	AA	TT	TT	INTERGENIC			
SNP_79009_A_306533	NW_004516029.1	scaffold599	306533	CC	TT	TT	INTERGENIC			
SNP_79010_A_306761	NW_004516029.1	scaffold599	306761	CC	TT	TT	INTERGENIC			
SNP_79011_A_306774	NW_004516029.1	scaffold599	306774	TT	GG	GG	INTERGENIC			
SNP_79015_A_308421	NW_004516029.1	scaffold599	308421	GG	TT	TT	DRR	101492741	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79016_A_308834	NW_004516029.1	scaffold599	308834	AA	TT	TT	DRR	101492741	Unknown function
SNP_79017_A_310940	NW_004516029.1	scaffold599	310940	GG	AA	AA	URR	101492741	Unknown function
SNP_79018_A_311421	NW_004516029.1	scaffold599	311421	AA	TT	TT	INTERGENIC		
SNP_79020_A_314472	NW_004516029.1	scaffold599	314472	TT	CC	CC	INTERGENIC		
SNP_79021_A_315058	NW_004516029.1	scaffold599	315058	TT	AA	AA	INTERGENIC		
SNP_79022_A_315699	NW_004516029.1	scaffold599	315699	TT	GG	GG	INTERGENIC		
SNP_79023_A_315792	NW_004516029.1	scaffold599	315792	AA	GG	GG	INTERGENIC		
SNP_79024_A_315815	NW_004516029.1	scaffold599	315815	AA	GG	GG	INTERGENIC		
SNP_79025_A_316144	NW_004516029.1	scaffold599	316144	AA	CC	CC	INTERGENIC		
SNP_79026_A_316717	NW_004516029.1	scaffold599	316717	AA	GG	GG	INTERGENIC		
SNP_79027_A_316791	NW_004516029.1	scaffold599	316791	CC	TT	TT	INTERGENIC		
SNP_79028_A_317261	NW_004516029.1	scaffold599	317261	GG	AA	AA	INTERGENIC		
SNP_79029_A_317444	NW_004516029.1	scaffold599	317444	AA	TT	TT	INTERGENIC		
SNP_79030_A_318533	NW_004516029.1	scaffold599	318533	CC	TT	TT	INTERGENIC		
SNP_79031_A_320166	NW_004516029.1	scaffold599	320166	AA	CC	CC	INTERGENIC		
SNP_79032_A_320224	NW_004516029.1	scaffold599	320224	CC	AA	AA	INTERGENIC		
SNP_79033_A_320413	NW_004516029.1	scaffold599	320413	TT	CC	CC	INTERGENIC		
SNP_79034_A_320834	NW_004516029.1	scaffold599	320834	TT	AA	AA	INTERGENIC		
SNP_79036_A_321909	NW_004516029.1	scaffold599	321909	AA	GG	GG	INTERGENIC		
SNP_79038_A_323209	NW_004516029.1	scaffold599	323209	GG	AA	AA	DRR	101493072	Unknown function
SNP_79040_A_324397	NW_004516029.1	scaffold599	324397	GG	AA	AA	URR	101493072	Unknown function
SNP_79041_A_324549	NW_004516029.1	scaffold599	324549	GG	TT	TT	URR	101493072	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79042_A_327319	NW_004516029.1	scaffold599	327319	CC	TT	TT	INTERGENIC		
SNP_79043_A_327605	NW_004516029.1	scaffold599	327605	TT	CC	CC	INTERGENIC		
SNP_79044_A_329046	NW_004516029.1	scaffold599	329046	GG	AA	AA	INTERGENIC		
SNP_79045_A_329145	NW_004516029.1	scaffold599	329145	TT	CC	CC	INTERGENIC		
SNP_79046_A_329222	NW_004516029.1	scaffold599	329222	AA	TT	TT	INTERGENIC		
SNP_79048_A_329444	NW_004516029.1	scaffold599	329444	CC	AA	AA	INTERGENIC		
SNP_79049_A_330142	NW_004516029.1	scaffold599	330142	CC	TT	TT	INTERGENIC		
SNP_79051_A_330489	NW_004516029.1	scaffold599	330489	AA	TT	TT	INTERGENIC		
SNP_79052_A_330602	NW_004516029.1	scaffold599	330602	TT	CC	CC	INTERGENIC		
SNP_79053_A_331001	NW_004516029.1	scaffold599	331001	GG	AA	AA	INTERGENIC		
SNP_79054_A_331507	NW_004516029.1	scaffold599	331507	TT	GG	GG	INTERGENIC		
SNP_79055_A_331711	NW_004516029.1	scaffold599	331711	GG	AA	AA	INTERGENIC		
SNP_79056_A_333481	NW_004516029.1	scaffold599	333481	CC	TT	TT	DRR	101493397	uncharacterized LOC101493397
SNP_79057_A_333522	NW_004516029.1	scaffold599	333522	CC	TT	TT	DRR	101493397	uncharacterized LOC101493397
SNP_79058_A_335120	NW_004516029.1	scaffold599	335120	AA	GG	GG	INTRON	101493397	uncharacterized LOC101493397
SNP_79059_A_335187	NW_004516029.1	scaffold599	335187	TT	GG	GG	INTRON	101493397	uncharacterized LOC101493397
SNP_79061_A_337164	NW_004516029.1	scaffold599	337164	CC	AA	AA	INTRON	101493397	uncharacterized LOC101493397
SNP_79062_A_337307	NW_004516029.1	scaffold599	337307	TT	CC	CC	INTRON	101493397	uncharacterized LOC101493397
SNP_79063_A_338098	NW_004516029.1	scaffold599	338098	GG	AA	AA	INTRON	101493397	uncharacterized LOC101493397
SNP_79065_A_338964	NW_004516029.1	scaffold599	338964	AA	TT	TT	INTRON	101493397	uncharacterized LOC101493397
SNP_79066_A_339234	NW_004516029.1	scaffold599	339234	TT	AA	AA	INTRON	101493397	uncharacterized LOC101493397
SNP_79068_A_350983	NW_004516029.1	scaffold599	350983	CC	TT	TT	INTRON	101493397	uncharacterized LOC101493397

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79069_A_351567	NW_004516029.1	scaffold599	351567	GG	AA	AA	INTRON	101493397	uncharacterized LOC101493397
SNP_79070_A_352302	NW_004516029.1	scaffold599	352302	AA	CC	CC	INTRON	101493397	uncharacterized LOC101493397
SNP_79071_A_352801	NW_004516029.1	scaffold599	352801	CC	TT	TT	NON_SYNONYMOUS_CODING	101493397	uncharacterized LOC101493397
SNP_79073_A_353375	NW_004516029.1	scaffold599	353375	CC	TT	TT	URR	101493397	uncharacterized LOC101493397
SNP_79074_A_354269	NW_004516029.1	scaffold599	354269	TT	AA	AA	URR	101493397	uncharacterized LOC101493397
SNP_79075_A_355547	NW_004516029.1	scaffold599	355547	CC	GG	GG	INTERGENIC		
SNP_79076_A_355853	NW_004516029.1	scaffold599	355853	AA	GG	GG	INTERGENIC		
SNP_79077_A_356119	NW_004516029.1	scaffold599	356119	GG	AA	AA	INTERGENIC		
SNP_79078_A_356963	NW_004516029.1	scaffold599	356963	GG	CC	CC	INTERGENIC		
SNP_79079_A_357475	NW_004516029.1	scaffold599	357475	GG	AA	AA	INTERGENIC		
SNP_79080_A_358458	NW_004516029.1	scaffold599	358458	AA	TT	TT	INTERGENIC		
SNP_79081_A_358497	NW_004516029.1	scaffold599	358497	AA	TT	TT	INTERGENIC		
SNP_79082_A_358637	NW_004516029.1	scaffold599	358637	TT	CC	CC	INTERGENIC		
SNP_79083_A_358713	NW_004516029.1	scaffold599	358713	AA	TT	TT	INTERGENIC		
SNP_79085_A_359630	NW_004516029.1	scaffold599	359630	TT	AA	AA	DRR	101493721	uncharacterized LOC101493721
SNP_79086_A_359746	NW_004516029.1	scaffold599	359746	GG	TT	TT	DRR	101493721	uncharacterized LOC101493721
SNP_79087_A_360478	NW_004516029.1	scaffold599	360478	TT	GG	GG	URR	101493721	uncharacterized LOC101493721
SNP_79088_A_361301	NW_004516029.1	scaffold599	361301	CC	TT	TT	URR	101493721	uncharacterized LOC101493721
SNP_79090_A_363515	NW_004516029.1	scaffold599	363515	TT	CC	CC	INTERGENIC		
SNP_79091_A_365964	NW_004516029.1	scaffold599	365964	AA	TT	TT	INTERGENIC		
SNP_79093_A_367760	NW_004516029.1	scaffold599	367760	TT	CC	CC	INTERGENIC		
SNP_79094_A_368147	NW_004516029.1	scaffold599	368147	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79095_A_368888	NW_004516029.1	scaffold599	368888	GG	CC	CC	INTERGENIC			
SNP_79096_A_369108	NW_004516029.1	scaffold599	369108	GG	AA	AA	INTERGENIC			
SNP_79097_A_369158	NW_004516029.1	scaffold599	369158	CC	TT	TT	INTERGENIC			
SNP_79098_A_369198	NW_004516029.1	scaffold599	369198	GG	AA	AA	INTERGENIC			
SNP_79099_A_369270	NW_004516029.1	scaffold599	369270	AA	TT	TT	INTERGENIC			
SNP_79100_A_369371	NW_004516029.1	scaffold599	369371	TT	CC	CC	INTERGENIC			
SNP_79101_A_369439	NW_004516029.1	scaffold599	369439	TT	CC	CC	INTERGENIC			
SNP_79102_A_369440	NW_004516029.1	scaffold599	369440	GG	AA	AA	INTERGENIC			
SNP_79103_A_369469	NW_004516029.1	scaffold599	369469	GG	AA	AA	INTERGENIC			
SNP_79104_A_369513	NW_004516029.1	scaffold599	369513	CC	TT	TT	INTERGENIC			
SNP_79105_A_369557	NW_004516029.1	scaffold599	369557	CC	AA	AA	INTERGENIC			
SNP_79106_A_369565	NW_004516029.1	scaffold599	369565	CC	TT	TT	INTERGENIC			
SNP_79108_A_369611	NW_004516029.1	scaffold599	369611	CC	TT	TT	INTERGENIC			
SNP_79109_A_369763	NW_004516029.1	scaffold599	369763	AA	GG	GG	INTERGENIC			
SNP_79110_A_369809	NW_004516029.1	scaffold599	369809	TT	CC	CC	INTERGENIC			
SNP_79111_A_369959	NW_004516029.1	scaffold599	369959	GG	TT	TT	INTERGENIC			
SNP_79113_A_372305	NW_004516029.1	scaffold599	372305	AA	TT	TT	INTERGENIC			
SNP_79114_A_373318	NW_004516029.1	scaffold599	373318	AA	GG	GG	INTERGENIC			
SNP_79115_A_373573	NW_004516029.1	scaffold599	373573	TT	AA	AA	INTERGENIC			
SNP_79117_A_374269	NW_004516029.1	scaffold599	374269	TT	CC	CC	INTERGENIC			
SNP_79118_A_375401	NW_004516029.1	scaffold599	375401	CC	TT	TT	INTERGENIC			
SNP_79119_A_375501	NW_004516029.1	scaffold599	375501	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79120_A_375740	NW_004516029.1	scaffold599	375740	CC	TT	TT	INTERGENIC		
SNP_79121_A_385265	NW_004516029.1	scaffold599	385265	TT	AA	AA	INTRON	101494042	uncharacterized LOC101494042
SNP_79123_A_385378	NW_004516029.1	scaffold599	385378	GG	CC	CC	NON_SYNONYMOUS_CODING	101494042	uncharacterized LOC101494042
SNP_79124_A_385392	NW_004516029.1	scaffold599	385392	GG	AA	AA	NON_SYNONYMOUS_CODING	101494042	uncharacterized LOC101494042
SNP_79125_A_385413	NW_004516029.1	scaffold599	385413	CC	TT	TT	NON_SYNONYMOUS_CODING	101494042	uncharacterized LOC101494042
SNP_79126_A_386616	NW_004516029.1	scaffold599	386616	TT	GG	GG	URR	101494042	uncharacterized LOC101494042
SNP_79127_A_386801	NW_004516029.1	scaffold599	386801	TT	CC	CC	URR	101494042	uncharacterized LOC101494042
SNP_79128_A_387537	NW_004516029.1	scaffold599	387537	TT	AA	AA	URR	101494042	uncharacterized LOC101494042
SNP_79129_A_387627	NW_004516029.1	scaffold599	387627	TT	GG	GG	URR	101494042	uncharacterized LOC101494042
SNP_79130_A_387677	NW_004516029.1	scaffold599	387677	GG	AA	AA	URR	101494042	uncharacterized LOC101494042
SNP_79131_A_387765	NW_004516029.1	scaffold599	387765	AA	GG	GG	INTERGENIC		
SNP_79132_A_387769	NW_004516029.1	scaffold599	387769	TT	AA	AA	INTERGENIC		
SNP_79133_A_387855	NW_004516029.1	scaffold599	387855	GG	TT	TT	INTERGENIC		
SNP_79134_A_389558	NW_004516029.1	scaffold599	389558	TT	CC	CC	INTERGENIC		
SNP_79135_A_390843	NW_004516029.1	scaffold599	390843	TT	CC	CC	INTERGENIC		
SNP_79136_A_391315	NW_004516029.1	scaffold599	391315	GG	AA	AA	INTERGENIC		
SNP_79138_A_391899	NW_004516029.1	scaffold599	391899	GG	TT	TT	INTERGENIC		
SNP_79139_A_392773	NW_004516029.1	scaffold599	392773	AA	TT	TT	DRR	101494354	uncharacterized LOC101494354
SNP_79140_A_393849	NW_004516029.1	scaffold599	393849	TT	CC	CC	URR	101494354	uncharacterized LOC101494354
SNP_79141_A_394426	NW_004516029.1	scaffold599	394426	CC	TT	TT	URR	101494354	uncharacterized LOC101494354
SNP_79142_A_394637	NW_004516029.1	scaffold599	394637	AA	CC	CC	URR	101494354	uncharacterized LOC101494354
SNP_79143_A_394704	NW_004516029.1	scaffold599	394704	TT	GG	GG	URR	101494354	uncharacterized LOC101494354

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79144_A_395121	NW_004516029.1	scaffold599	395121	TT	CC	CC	URR	101494354	uncharacterized LOC101494354
SNP_79145_A_396581	NW_004516029.1	scaffold599	396581	GG	AA	AA	INTERGENIC		
SNP_79146_A_396664	NW_004516029.1	scaffold599	396664	AA	TT	TT	INTERGENIC		
SNP_79147_A_398416	NW_004516029.1	scaffold599	398416	TT	CC	CC	INTERGENIC		
SNP_79148_A_398919	NW_004516029.1	scaffold599	398919	AA	GG	GG	INTERGENIC		
SNP_79149_A_401886	NW_004516029.1	scaffold599	401886	GG	AA	AA	INTERGENIC		
SNP_79150_A_401890	NW_004516029.1	scaffold599	401890	TT	GG	GG	INTERGENIC		
SNP_79151_A_402042	NW_004516029.1	scaffold599	402042	AA	GG	GG	INTERGENIC		
SNP_79152_A_402481	NW_004516029.1	scaffold599	402481	TT	GG	GG	INTERGENIC		
SNP_79153_A_402756	NW_004516029.1	scaffold599	402756	CC	TT	TT	INTERGENIC		
SNP_79154_A_403129	NW_004516029.1	scaffold599	403129	TT	GG	GG	INTERGENIC		
SNP_79155_A_403260	NW_004516029.1	scaffold599	403260	GG	TT	TT	INTERGENIC		
SNP_79156_A_403447	NW_004516029.1	scaffold599	403447	AA	TT	TT	INTERGENIC		
SNP_79158_A_404158	NW_004516029.1	scaffold599	404158	CC	AA	AA	INTERGENIC		
SNP_79159_A_404253	NW_004516029.1	scaffold599	404253	AA	CC	CC	INTERGENIC		
SNP_79161_A_405310	NW_004516029.1	scaffold599	405310	AA	GG	GG	INTERGENIC		
SNP_79162_A_406095	NW_004516029.1	scaffold599	406095	CC	TT	TT	INTERGENIC		
SNP_79164_A_406789	NW_004516029.1	scaffold599	406789	CC	TT	TT	INTERGENIC		
SNP_79165_A_407602	NW_004516029.1	scaffold599	407602	CC	TT	TT	INTERGENIC		
SNP_79166_A_407684	NW_004516029.1	scaffold599	407684	AA	GG	GG	INTERGENIC		
SNP_79167_A_409570	NW_004516029.1	scaffold599	409570	TT	GG	GG	INTERGENIC		
SNP_79168_A_409572	NW_004516029.1	scaffold599	409572	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79170_A_410095	NW_004516029.1	scaffold599	410095	CC	AA	AA	INTERGENIC		
SNP_79171_A_410238	NW_004516029.1	scaffold599	410238	AA	CC	CC	INTERGENIC		
SNP_79172_A_412300	NW_004516029.1	scaffold599	412300	GG	AA	AA	INTERGENIC		
SNP_79173_A_29524	NW_004516030.1	scaffold601	29524	AA	CC	CC	INTERGENIC		
SNP_79174_A_38557	NW_004516030.1	scaffold601	38557	TT	CC	CC	URR	101494983	protein GLUTAMINE DUMPER 5-like
SNP_79176_A_52366	NW_004516030.1	scaffold601	52366	TT	GG	GG	URR	101495309	Unknown function
SNP_79177_A_52378	NW_004516030.1	scaffold601	52378	TT	CC	CC	URR	101495309	Unknown function
SNP_79178_A_52415	NW_004516030.1	scaffold601	52415	TT	GG	GG	URR	101495309	Unknown function
SNP_79179_A_52433	NW_004516030.1	scaffold601	52433	GG	CC	CC	URR	101495309	Unknown function
SNP_79180_A_52763	NW_004516030.1	scaffold601	52763	AA	GG	GG	URR	101495309	Unknown function
SNP_79181_A_93730	NW_004516030.1	scaffold601	93730	TT	AA	AA	INTRON	101496296	uncharacterized LOC101496296
SNP_79182_A_100719	NW_004516030.1	scaffold601	100719	TT	GG	GG	INTERGENIC		
SNP_79183_A_110275	NW_004516030.1	scaffold601	110275	TT	CC	CC	INTERGENIC		
SNP_79184_A_110300	NW_004516030.1	scaffold601	110300	AA	GG	GG	INTERGENIC		
SNP_79185_A_110312	NW_004516030.1	scaffold601	110312	TT	CC	CC	INTERGENIC		
SNP_79186_A_110318	NW_004516030.1	scaffold601	110318	AA	GG	GG	INTERGENIC		
SNP_79187_A_110706	NW_004516030.1	scaffold601	110706	GG	AA	AA	INTERGENIC		
SNP_79188_A_125673	NW_004516030.1	scaffold601	125673	CC	TT	TT	INTERGENIC		
SNP_79189_A_147231	NW_004516030.1	scaffold601	147231	TT	CC	CC	INTERGENIC		
SNP_79190_A_147296	NW_004516030.1	scaffold601	147296	AA	GG	GG	INTERGENIC		
SNP_79191_A_1268	NW_004516031.1	scaffold602	1268	AA	GG	GG	INTERGENIC		
SNP_79192_A_3233	NW_004516032.1	scaffold604	3233	CC	TT	TT	URR	101496625	uncharacterized LOC101496625

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79193_A_7835	NW_004516032.1	scaffold604	7835	GG	AA	AA	URR	101496944	Unknown function
SNP_79194_A_8150	NW_004516032.1	scaffold604	8150	AA	TT	TT	INTERGENIC		
SNP_79195_A_8167	NW_004516032.1	scaffold604	8167	CC	AA	AA	INTERGENIC		
SNP_79196_A_8190	NW_004516032.1	scaffold604	8190	AA	GG	GG	INTERGENIC		
SNP_79197_A_8490	NW_004516032.1	scaffold604	8490	GG	AA	AA	INTERGENIC		
SNP_79198_A_9040	NW_004516032.1	scaffold604	9040	CC	AA	AA	INTERGENIC		
SNP_79199_A_9237	NW_004516032.1	scaffold604	9237	TT	CC	CC	INTERGENIC		
SNP_79200_A_9290	NW_004516032.1	scaffold604	9290	AA	GG	GG	INTERGENIC		
SNP_79201_A_9698	NW_004516032.1	scaffold604	9698	GG	AA	AA	INTERGENIC		
SNP_79204_A_14647	NW_004516032.1	scaffold604	14647	AA	GG	GG	INTERGENIC		
SNP_79205_A_15113	NW_004516032.1	scaffold604	15113	AA	GG	GG	INTERGENIC		
SNP_79206_A_15186	NW_004516032.1	scaffold604	15186	AA	TT	TT	INTERGENIC		
SNP_79207_A_15857	NW_004516032.1	scaffold604	15857	CC	TT	TT	INTERGENIC		
SNP_79208_A_15863	NW_004516032.1	scaffold604	15863	GG	TT	TT	INTERGENIC		
SNP_79209_A_15866	NW_004516032.1	scaffold604	15866	AA	TT	TT	INTERGENIC		
SNP_79210_A_16641	NW_004516032.1	scaffold604	16641	AA	CC	CC	INTERGENIC		
SNP_79211_A_16830	NW_004516032.1	scaffold604	16830	TT	CC	CC	INTERGENIC		
SNP_79212_A_16910	NW_004516032.1	scaffold604	16910	TT	CC	CC	INTERGENIC		
SNP_79214_A_19179	NW_004516032.1	scaffold604	19179	AA	GG	GG	INTERGENIC		
SNP_79215_A_19581	NW_004516032.1	scaffold604	19581	TT	CC	CC	INTERGENIC		
SNP_79216_A_19620	NW_004516032.1	scaffold604	19620	AA	GG	GG	INTERGENIC		
SNP_79217_A_22650	NW_004516032.1	scaffold604	22650	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79218_A_29319	NW_004516032.1	scaffold604	29319	CC	AA	AA	INTERGENIC		
SNP_79219_A_38290	NW_004516032.1	scaffold604	38290	AA	TT	TT	INTERGENIC		
SNP_79221_A_62123	NW_004516032.1	scaffold604	62123	CC	TT	TT	INTERGENIC		
SNP_79222_A_64256	NW_004516032.1	scaffold604	64256	CC	GG	GG	INTERGENIC		
SNP_79223_A_64306	NW_004516032.1	scaffold604	64306	CC	AA	AA	INTERGENIC		
SNP_79225_A_72039	NW_004516032.1	scaffold604	72039	GG	AA	AA	NON_SYNONYMOUS_CODING	101497274	Unknown function
SNP_79226_A_80173	NW_004516032.1	scaffold604	80173	CC	TT	TT	INTERGENIC		
SNP_79227_A_5761	NW_004516033.1	scaffold605	5761	AA	GG	GG	DRR	101497599	receptor-like protein kinase FERONIA
SNP_79228_A_19031	NW_004516033.1	scaffold605	19031	TT	CC	CC	NON_SYNONYMOUS_CODING	101497599	receptor-like protein kinase FERONIA
SNP_79229_A_19056	NW_004516033.1	scaffold605	19056	CC	TT	TT	SYNONYMOUS_CODING	101497599	receptor-like protein kinase FERONIA
SNP_79230_A_19460	NW_004516033.1	scaffold605	19460	GG	AA	AA	URR	101497599	receptor-like protein kinase FERONIA
SNP_79231_A_19574	NW_004516033.1	scaffold605	19574	GG	AA	AA	URR	101497599	receptor-like protein kinase FERONIA
SNP_79232_A_24781	NW_004516033.1	scaffold605	24781	TT	CC	CC	INTERGENIC		
SNP_79233_A_29010	NW_004516033.1	scaffold605	29010	AA	GG	GG	INTERGENIC		
SNP_79234_A_71320	NW_004516033.1	scaffold605	71320	TT	AA	AA	INTERGENIC		
SNP_79235_A_71324	NW_004516033.1	scaffold605	71324	CC	AA	AA	INTERGENIC		
SNP_79236_A_72421	NW_004516033.1	scaffold605	72421	AA	GG	GG	INTERGENIC		
SNP_79237_A_81897	NW_004516033.1	scaffold605	81897	CC	AA	AA	INTERGENIC		
SNP_79238_A_6428	NW_004516036.1	scaffold611	6428	TT	CC	CC	INTERGENIC		
SNP_79239_A_6738	NW_004516036.1	scaffold611	6738	TT	AA	AA	INTERGENIC		
SNP_79240_A_6763	NW_004516036.1	scaffold611	6763	GG	AA	AA	INTERGENIC		
SNP_79241_A_2119	NW_004516037.1	scaffold612	2119	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79242_A_2121	NW_004516037.1	scaffold612	2121	CC	GG	GG	INTERGENIC			
SNP_79243_A_2130	NW_004516037.1	scaffold612	2130	TT	AA	AA	INTERGENIC			
SNP_79244_A_2979	NW_004516037.1	scaffold612	2979	CC	AA	AA	INTERGENIC			
SNP_79245_A_3022	NW_004516037.1	scaffold612	3022	TT	AA	AA	INTERGENIC			
SNP_79246_A_3040	NW_004516037.1	scaffold612	3040	CC	TT	TT	INTERGENIC			
SNP_79248_A_3120	NW_004516037.1	scaffold612	3120	CC	GG	GG	INTERGENIC			
SNP_79249_A_3429	NW_004516037.1	scaffold612	3429	AA	TT	TT	INTERGENIC			
SNP_79250_A_3512	NW_004516037.1	scaffold612	3512	TT	GG	GG	INTERGENIC			
SNP_79251_A_17439	NW_004516037.1	scaffold612	17439	AA	TT	TT	INTERGENIC			
SNP_79252_A_17756	NW_004516037.1	scaffold612	17756	AA	GG	GG	INTERGENIC			
SNP_79253_A_17944	NW_004516037.1	scaffold612	17944	GG	TT	TT	INTERGENIC			
SNP_79254_A_17952	NW_004516037.1	scaffold612	17952	TT	AA	AA	INTERGENIC			
SNP_79255_A_22047	NW_004516037.1	scaffold612	22047	CC	TT	TT	INTERGENIC			
SNP_79256_A_22674	NW_004516037.1	scaffold612	22674	GG	CC	CC	INTERGENIC			
SNP_79257_A_22779	NW_004516037.1	scaffold612	22779	TT	GG	GG	INTERGENIC			
SNP_79258_A_22786	NW_004516037.1	scaffold612	22786	GG	TT	TT	INTERGENIC			
SNP_79259_A_22970	NW_004516037.1	scaffold612	22970	AA	CC	CC	INTERGENIC			
SNP_79260_A_23159	NW_004516037.1	scaffold612	23159	CC	GG	GG	INTERGENIC			
SNP_79261_A_24822	NW_004516037.1	scaffold612	24822	CC	TT	TT	INTERGENIC			
SNP_79262_A_25277	NW_004516037.1	scaffold612	25277	GG	AA	AA	INTERGENIC			
SNP_79263_A_25591	NW_004516037.1	scaffold612	25591	GG	AA	AA	INTERGENIC			
SNP_79264_A_25749	NW_004516037.1	scaffold612	25749	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79265_A_26703	NW_004516037.1	scaffold612	26703	TT	CC	CC	INTERGENIC			
SNP_79266_A_26704	NW_004516037.1	scaffold612	26704	GG	AA	AA	INTERGENIC			
SNP_79267_A_28238	NW_004516037.1	scaffold612	28238	AA	GG	GG	INTERGENIC			
SNP_79268_A_28455	NW_004516037.1	scaffold612	28455	GG	AA	AA	INTERGENIC			
SNP_79269_A_28543	NW_004516037.1	scaffold612	28543	CC	TT	TT	INTERGENIC			
SNP_79271_A_28609	NW_004516037.1	scaffold612	28609	TT	CC	CC	INTERGENIC			
SNP_79272_A_28678	NW_004516037.1	scaffold612	28678	AA	CC	CC	INTERGENIC			
SNP_79273_A_28742	NW_004516037.1	scaffold612	28742	AA	GG	GG	INTERGENIC			
SNP_79274_A_28852	NW_004516037.1	scaffold612	28852	AA	GG	GG	INTERGENIC			
SNP_79275_A_28927	NW_004516037.1	scaffold612	28927	AA	CC	CC	INTERGENIC			
SNP_79276_A_29090	NW_004516037.1	scaffold612	29090	GG	AA	AA	INTERGENIC			
SNP_79277_A_29390	NW_004516037.1	scaffold612	29390	AA	GG	GG	INTERGENIC			
SNP_79278_A_29412	NW_004516037.1	scaffold612	29412	CC	GG	GG	INTERGENIC			
SNP_79279_A_30254	NW_004516037.1	scaffold612	30254	TT	CC	CC	INTERGENIC			
SNP_79281_A_38732	NW_004516037.1	scaffold612	38732	CC	TT	TT	INTERGENIC			
SNP_79282_A_38960	NW_004516037.1	scaffold612	38960	GG	CC	CC	INTERGENIC			
SNP_79283_A_38973	NW_004516037.1	scaffold612	38973	AA	TT	TT	INTERGENIC			
SNP_79284_A_44714	NW_004516037.1	scaffold612	44714	AA	TT	TT	INTERGENIC			
SNP_79285_A_13517	NW_004516038.1	scaffold613	13517	CC	AA	AA	INTERGENIC			
SNP_79286_A_13843	NW_004516038.1	scaffold613	13843	AA	CC	CC	INTERGENIC			
SNP_79287_A_13848	NW_004516038.1	scaffold613	13848	GG	TT	TT	INTERGENIC			
SNP_79288_A_13889	NW_004516038.1	scaffold613	13889	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79289_A_13899	NW_004516038.1	scaffold613	13899	TT	CC	CC	INTERGENIC			
SNP_79290_A_24694	NW_004516038.1	scaffold613	24694	GG	AA	AA	INTERGENIC			
SNP_79291_A_78545	NW_004516038.1	scaffold613	78545	GG	AA	AA	INTERGENIC			
SNP_79292_A_78600	NW_004516038.1	scaffold613	78600	AA	TT	TT	INTERGENIC			
SNP_79294_A_79484	NW_004516038.1	scaffold613	79484	GG	AA	AA	INTERGENIC			
SNP_79295_A_79801	NW_004516038.1	scaffold613	79801	TT	CC	CC	INTERGENIC			
SNP_79296_A_1031	NW_004516041.1	scaffold617	1031	TT	AA	AA	INTERGENIC			
SNP_79297_A_1092	NW_004516041.1	scaffold617	1092	TT	GG	GG	INTERGENIC			
SNP_79298_A_1261	NW_004516041.1	scaffold617	1261	AA	GG	GG	INTERGENIC			
SNP_79299_A_1498	NW_004516041.1	scaffold617	1498	CC	TT	TT	INTERGENIC			
SNP_79300_A_1975	NW_004516041.1	scaffold617	1975	CC	AA	AA	INTERGENIC			
SNP_79301_A_1991	NW_004516041.1	scaffold617	1991	TT	GG	GG	INTERGENIC			
SNP_79302_A_8565	NW_004516041.1	scaffold617	8565	CC	TT	TT	INTERGENIC			
SNP_79303_A_8680	NW_004516041.1	scaffold617	8680	AA	TT	TT	INTERGENIC			
SNP_79304_A_8702	NW_004516041.1	scaffold617	8702	TT	CC	CC	INTERGENIC			
SNP_79305_A_8775	NW_004516041.1	scaffold617	8775	TT	AA	AA	INTERGENIC			
SNP_79306_A_8847	NW_004516041.1	scaffold617	8847	GG	AA	AA	INTERGENIC			
SNP_79307_A_8859	NW_004516041.1	scaffold617	8859	TT	GG	GG	INTERGENIC			
SNP_79308_A_8869	NW_004516041.1	scaffold617	8869	CC	AA	AA	INTERGENIC			
SNP_79309_A_8876	NW_004516041.1	scaffold617	8876	AA	CC	CC	INTERGENIC			
SNP_79310_A_8901	NW_004516041.1	scaffold617	8901	CC	AA	TT	INTERGENIC			
SNP_79311_A_8984	NW_004516041.1	scaffold617	8984	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79312_A_9010	NW_004516041.1	scaffold617	9010	AA	CC	CC	INTERGENIC			
SNP_79313_A_9042	NW_004516041.1	scaffold617	9042	GG	AA	AA	INTERGENIC			
SNP_79314_A_9054	NW_004516041.1	scaffold617	9054	TT	AA	AA	INTERGENIC			
SNP_79315_A_9181	NW_004516041.1	scaffold617	9181	GG	CC	CC	INTERGENIC			
SNP_79316_A_1173	NW_004516042.1	scaffold618	1173	AA	TT	TT	INTERGENIC			
SNP_79317_A_1292	NW_004516042.1	scaffold618	1292	GG	AA	AA	INTERGENIC			
SNP_79319_A_13249	NW_004516042.1	scaffold618	13249	CC	AA	AA	INTERGENIC			
SNP_79320_A_13613	NW_004516042.1	scaffold618	13613	GG	CC	CC	INTERGENIC			
SNP_79321_A_14219	NW_004516042.1	scaffold618	14219	GG	AA	AA	INTERGENIC			
SNP_79322_A_14227	NW_004516042.1	scaffold618	14227	GG	AA	AA	INTERGENIC			
SNP_79324_A_55176	NW_004516042.1	scaffold618	55176	AA	CC	CC	INTERGENIC			
SNP_79325_A_55232	NW_004516042.1	scaffold618	55232	AA	GG	GG	INTERGENIC			
SNP_79326_A_55237	NW_004516042.1	scaffold618	55237	AA	GG	GG	INTERGENIC			
SNP_79327_A_58937	NW_004516042.1	scaffold618	58937	AA	TT	TT	INTERGENIC			
SNP_79328_A_58954	NW_004516042.1	scaffold618	58954	TT	CC	CC	INTERGENIC			
SNP_79329_A_58973	NW_004516042.1	scaffold618	58973	TT	CC	CC	INTERGENIC			
SNP_79330_A_59084	NW_004516042.1	scaffold618	59084	GG	AA	AA	INTERGENIC			
SNP_79331_A_59130	NW_004516042.1	scaffold618	59130	CC	AA	AA	INTERGENIC			
SNP_79332_A_59434	NW_004516042.1	scaffold618	59434	AA	TT	TT	INTERGENIC			
SNP_79333_A_59435	NW_004516042.1	scaffold618	59435	CC	GG	GG	INTERGENIC			
SNP_79334_A_59502	NW_004516042.1	scaffold618	59502	TT	CC	CC	INTERGENIC			
SNP_79335_A_59506	NW_004516042.1	scaffold618	59506	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79336_A_59559	NW_004516042.1	scaffold618	59559	AA	GG	GG	INTERGENIC			
SNP_79337_A_60608	NW_004516042.1	scaffold618	60608	TT	CC	CC	INTERGENIC			
SNP_79338_A_86264	NW_004516042.1	scaffold618	86264	TT	CC	CC	INTERGENIC			
SNP_79339_A_147066	NW_004516042.1	scaffold618	147066	TT	GG	GG	INTERGENIC			
SNP_79340_A_147069	NW_004516042.1	scaffold618	147069	GG	AA	AA	INTERGENIC			
SNP_79341_A_147454	NW_004516042.1	scaffold618	147454	AA	GG	GG	INTERGENIC			
SNP_79342_A_147474	NW_004516042.1	scaffold618	147474	GG	AA	AA	INTERGENIC			
SNP_79343_A_147489	NW_004516042.1	scaffold618	147489	AA	GG	GG	INTERGENIC			
SNP_79344_A_147492	NW_004516042.1	scaffold618	147492	AA	TT	TT	INTERGENIC			
SNP_79345_A_147535	NW_004516042.1	scaffold618	147535	TT	GG	GG	INTERGENIC			
SNP_79347_A_216313	NW_004516042.1	scaffold618	216313	TT	CC	CC	INTERGENIC			
SNP_79348_A_216482	NW_004516042.1	scaffold618	216482	GG	TT	TT	INTERGENIC			
SNP_79349_A_216624	NW_004516042.1	scaffold618	216624	GG	TT	TT	INTERGENIC			
SNP_79350_A_216646	NW_004516042.1	scaffold618	216646	AA	GG	GG	INTERGENIC			
SNP_79351_A_218321	NW_004516042.1	scaffold618	218321	GG	AA	AA	INTERGENIC			
SNP_79352_A_46871	NW_004516043.1	scaffold619	46871	AA	CC	CC	INTERGENIC			
SNP_79353_A_47128	NW_004516043.1	scaffold619	47128	GG	CC	CC	INTERGENIC			
SNP_79354_A_47140	NW_004516043.1	scaffold619	47140	AA	CC	CC	INTERGENIC			
SNP_79355_A_88	NW_004516044.1	scaffold620	88	AA	TT	TT	INTERGENIC			
SNP_79356_A_2499	NW_004516045.1	scaffold622	2499	AA	GG	GG	INTERGENIC			
SNP_79357_A_7544	NW_004516045.1	scaffold622	7544	AA	GG	GG	INTERGENIC			
SNP_79358_A_7739	NW_004516045.1	scaffold622	7739	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79359_A_8150	NW_004516045.1	scaffold622	8150	CC	TT	TT	INTERGENIC			
SNP_79360_A_8163	NW_004516045.1	scaffold622	8163	GG	TT	TT	INTERGENIC			
SNP_79361_A_8165	NW_004516045.1	scaffold622	8165	AA	TT	TT	INTERGENIC			
SNP_79362_A_8572	NW_004516045.1	scaffold622	8572	TT	AA	AA	INTERGENIC			
SNP_79363_A_8597	NW_004516045.1	scaffold622	8597	TT	GG	GG	INTERGENIC			
SNP_79364_A_8636	NW_004516045.1	scaffold622	8636	CC	AA	AA	INTERGENIC			
SNP_79365_A_9806	NW_004516045.1	scaffold622	9806	TT	GG	GG	INTERGENIC			
SNP_79366_A_9826	NW_004516045.1	scaffold622	9826	AA	GG	GG	INTERGENIC			
SNP_79368_A_10481	NW_004516045.1	scaffold622	10481	GG	CC	CC	INTERGENIC			
SNP_79369_A_10496	NW_004516045.1	scaffold622	10496	CC	TT	TT	INTERGENIC			
SNP_79370_A_10552	NW_004516045.1	scaffold622	10552	CC	GG	GG	INTERGENIC			
SNP_79371_A_10763	NW_004516045.1	scaffold622	10763	CC	AA	AA	INTERGENIC			
SNP_79372_A_10835	NW_004516045.1	scaffold622	10835	TT	AA	AA	INTERGENIC			
SNP_79374_A_20974	NW_004516045.1	scaffold622	20974	TT	CC	CC	INTERGENIC			
SNP_79375_A_20984	NW_004516045.1	scaffold622	20984	AA	GG	GG	INTERGENIC			
SNP_79376_A_23185	NW_004516045.1	scaffold622	23185	AA	GG	GG	INTERGENIC			
SNP_79377_A_23478	NW_004516045.1	scaffold622	23478	AA	CC	CC	INTERGENIC			
SNP_79378_A_24165	NW_004516045.1	scaffold622	24165	GG	AA	AA	INTERGENIC			
SNP_79379_A_24317	NW_004516045.1	scaffold622	24317	GG	TT	TT	INTERGENIC			
SNP_79380_A_24598	NW_004516045.1	scaffold622	24598	AA	GG	GG	INTERGENIC			
SNP_79381_A_24639	NW_004516045.1	scaffold622	24639	GG	CC	CC	INTERGENIC			
SNP_79382_A_24737	NW_004516045.1	scaffold622	24737	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79383_A_24745	NW_004516045.1	scaffold622	24745	AA	CC	CC	INTERGENIC			
SNP_79384_A_24827	NW_004516045.1	scaffold622	24827	GG	TT	TT	INTERGENIC			
SNP_79385_A_24928	NW_004516045.1	scaffold622	24928	AA	TT	TT	INTERGENIC			
SNP_79386_A_24930	NW_004516045.1	scaffold622	24930	AA	GG	GG	INTERGENIC			
SNP_79387_A_25331	NW_004516045.1	scaffold622	25331	TT	AA	AA	INTERGENIC			
SNP_79388_A_25698	NW_004516045.1	scaffold622	25698	GG	TT	TT	INTERGENIC			
SNP_79389_A_26069	NW_004516045.1	scaffold622	26069	AA	GG	GG	INTERGENIC			
SNP_79390_A_26375	NW_004516045.1	scaffold622	26375	TT	AA	AA	INTERGENIC			
SNP_79391_A_26605	NW_004516045.1	scaffold622	26605	CC	AA	AA	INTERGENIC			
SNP_79392_A_26613	NW_004516045.1	scaffold622	26613	CC	TT	TT	INTERGENIC			
SNP_79394_A_30918	NW_004516045.1	scaffold622	30918	TT	CC	CC	INTERGENIC			
SNP_79395_A_31042	NW_004516045.1	scaffold622	31042	TT	GG	GG	INTERGENIC			
SNP_79396_A_31199	NW_004516045.1	scaffold622	31199	GG	CC	CC	INTERGENIC			
SNP_79397_A_31288	NW_004516045.1	scaffold622	31288	CC	AA	AA	INTERGENIC			
SNP_79398_A_31309	NW_004516045.1	scaffold622	31309	TT	GG	GG	INTERGENIC			
SNP_79399_A_31322	NW_004516045.1	scaffold622	31322	TT	AA	AA	INTERGENIC			
SNP_79400_A_35293	NW_004516045.1	scaffold622	35293	GG	CC	CC	INTERGENIC			
SNP_79401_A_35296	NW_004516045.1	scaffold622	35296	TT	CC	CC	INTERGENIC			
SNP_79402_A_35325	NW_004516045.1	scaffold622	35325	TT	AA	AA	INTERGENIC			
SNP_79403_A_35823	NW_004516045.1	scaffold622	35823	TT	CC	CC	INTERGENIC			
SNP_79404_A_35894	NW_004516045.1	scaffold622	35894	AA	CC	CC	INTERGENIC			
SNP_79405_A_35984	NW_004516045.1	scaffold622	35984	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79406_A_36082	NW_004516045.1	scaffold622	36082	CC	GG	GG	INTERGENIC			
SNP_79407_A_36091	NW_004516045.1	scaffold622	36091	AA	TT	TT	INTERGENIC			
SNP_79408_A_36138	NW_004516045.1	scaffold622	36138	GG	TT	TT	INTERGENIC			
SNP_79409_A_36278	NW_004516045.1	scaffold622	36278	GG	CC	CC	INTERGENIC			
SNP_79410_A_36621	NW_004516045.1	scaffold622	36621	GG	AA	AA	INTERGENIC			
SNP_79412_A_38962	NW_004516045.1	scaffold622	38962	AA	GG	GG	INTERGENIC			
SNP_79413_A_41363	NW_004516045.1	scaffold622	41363	GG	AA	AA	INTERGENIC			
SNP_79414_A_41460	NW_004516045.1	scaffold622	41460	AA	GG	GG	INTERGENIC			
SNP_79416_A_44506	NW_004516045.1	scaffold622	44506	TT	AA	AA	INTERGENIC			
SNP_79417_A_45308	NW_004516045.1	scaffold622	45308	TT	CC	CC	INTERGENIC			
SNP_79418_A_45948	NW_004516045.1	scaffold622	45948	TT	AA	AA	INTERGENIC			
SNP_79421_A_48012	NW_004516045.1	scaffold622	48012	TT	AA	AA	INTERGENIC			
SNP_79422_A_48048	NW_004516045.1	scaffold622	48048	CC	GG	GG	INTERGENIC			
SNP_79423_A_48306	NW_004516045.1	scaffold622	48306	TT	AA	AA	INTERGENIC			
SNP_79424_A_48851	NW_004516045.1	scaffold622	48851	TT	AA	AA	INTERGENIC			
SNP_79425_A_48910	NW_004516045.1	scaffold622	48910	CC	AA	AA	INTERGENIC			
SNP_79426_A_48925	NW_004516045.1	scaffold622	48925	CC	AA	AA	INTERGENIC			
SNP_79427_A_56408	NW_004516045.1	scaffold622	56408	AA	TT	TT	INTERGENIC			
SNP_79428_A_56577	NW_004516045.1	scaffold622	56577	AA	CC	CC	INTERGENIC			
SNP_79429_A_56846	NW_004516045.1	scaffold622	56846	CC	TT	TT	INTERGENIC			
SNP_79430_A_56869	NW_004516045.1	scaffold622	56869	CC	GG	GG	INTERGENIC			
SNP_79431_A_57087	NW_004516045.1	scaffold622	57087	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79432_A_57101	NW_004516045.1	scaffold622	57101	CC	GG	GG	INTERGENIC			
SNP_79433_A_59774	NW_004516045.1	scaffold622	59774	TT	AA	AA	INTERGENIC			
SNP_79434_A_59813	NW_004516045.1	scaffold622	59813	CC	AA	AA	INTERGENIC			
SNP_79435_A_61628	NW_004516045.1	scaffold622	61628	TT	CC	CC	INTERGENIC			
SNP_79436_A_61629	NW_004516045.1	scaffold622	61629	GG	TT	TT	INTERGENIC			
SNP_79437_A_61637	NW_004516045.1	scaffold622	61637	CC	TT	TT	INTERGENIC			
SNP_79438_A_61698	NW_004516045.1	scaffold622	61698	CC	TT	TT	INTERGENIC			
SNP_79440_A_63863	NW_004516045.1	scaffold622	63863	AA	GG	GG	INTERGENIC			
SNP_79441_A_63889	NW_004516045.1	scaffold622	63889	GG	AA	AA	INTERGENIC			
SNP_79442_A_64090	NW_004516045.1	scaffold622	64090	AA	GG	GG	INTERGENIC			
SNP_79443_A_64352	NW_004516045.1	scaffold622	64352	GG	CC	CC	INTERGENIC			
SNP_79444_A_64439	NW_004516045.1	scaffold622	64439	GG	CC	CC	INTERGENIC			
SNP_79445_A_66379	NW_004516045.1	scaffold622	66379	CC	AA	AA	INTERGENIC			
SNP_79446_A_67898	NW_004516045.1	scaffold622	67898	CC	TT	TT	INTERGENIC			
SNP_79447_A_68551	NW_004516045.1	scaffold622	68551	TT	AA	AA	INTERGENIC			
SNP_79448_A_68627	NW_004516045.1	scaffold622	68627	TT	CC	CC	INTERGENIC			
SNP_79449_A_68912	NW_004516045.1	scaffold622	68912	AA	TT	TT	INTERGENIC			
SNP_79450_A_69329	NW_004516045.1	scaffold622	69329	GG	CC	CC	INTERGENIC			
SNP_79451_A_71732	NW_004516045.1	scaffold622	71732	AA	GG	GG	INTERGENIC			
SNP_79452_A_72180	NW_004516045.1	scaffold622	72180	AA	CC	CC	INTERGENIC			
SNP_79453_A_72181	NW_004516045.1	scaffold622	72181	CC	TT	TT	INTERGENIC			
SNP_79454_A_72306	NW_004516045.1	scaffold622	72306	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79455_A_73322	NW_004516045.1	scaffold622	73322	CC	AA	AA	INTERGENIC			
SNP_79456_A_73350	NW_004516045.1	scaffold622	73350	AA	GG	GG	INTERGENIC			
SNP_79457_A_73721	NW_004516045.1	scaffold622	73721	CC	GG	GG	INTERGENIC			
SNP_79458_A_75769	NW_004516045.1	scaffold622	75769	GG	AA	AA	INTERGENIC			
SNP_79459_A_75996	NW_004516045.1	scaffold622	75996	TT	AA	AA	INTERGENIC			
SNP_79460_A_76030	NW_004516045.1	scaffold622	76030	CC	TT	TT	INTERGENIC			
SNP_79461_A_81839	NW_004516045.1	scaffold622	81839	TT	AA	AA	INTERGENIC			
SNP_79462_A_82014	NW_004516045.1	scaffold622	82014	CC	GG	GG	INTERGENIC			
SNP_79463_A_83659	NW_004516045.1	scaffold622	83659	CC	TT	TT	INTERGENIC			
SNP_79464_A_84185	NW_004516045.1	scaffold622	84185	AA	TT	TT	INTERGENIC			
SNP_79465_A_84260	NW_004516045.1	scaffold622	84260	TT	GG	GG	INTERGENIC			
SNP_79466_A_84647	NW_004516045.1	scaffold622	84647	TT	AA	AA	INTERGENIC			
SNP_79467_A_84689	NW_004516045.1	scaffold622	84689	TT	CC	CC	INTERGENIC			
SNP_79468_A_86287	NW_004516045.1	scaffold622	86287	AA	GG	GG	INTERGENIC			
SNP_79469_A_87311	NW_004516045.1	scaffold622	87311	AA	TT	TT	INTERGENIC			
SNP_79470_A_88873	NW_004516045.1	scaffold622	88873	TT	AA	AA	INTERGENIC			
SNP_79471_A_89090	NW_004516045.1	scaffold622	89090	TT	GG	GG	INTERGENIC			
SNP_79472_A_89658	NW_004516045.1	scaffold622	89658	AA	TT	TT	INTERGENIC			
SNP_79473_A_10415	NW_004516047.1	scaffold624	10415	AA	CC	CC	INTERGENIC			
SNP_79474_A_58238	NW_004516047.1	scaffold624	58238	TT	CC	CC	INTERGENIC			
SNP_79475_A_66983	NW_004516047.1	scaffold624	66983	AA	GG	GG	INTERGENIC			
SNP_79476_A_68386	NW_004516047.1	scaffold624	68386	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79477_A_68481	NW_004516047.1	scaffold624	68481	TT	CC	CC	INTERGENIC		
SNP_79478_A_69913	NW_004516047.1	scaffold624	69913	GG	TT	TT	DRR	101500940	uncharacterized LOC101500940
SNP_79479_A_70232	NW_004516047.1	scaffold624	70232	AA	CC	CC	DRR	101500940	uncharacterized LOC101500940
SNP_79480_A_112337	NW_004516047.1	scaffold624	112337	GG	AA	AA	INTERGENIC		
SNP_79481_A_112419	NW_004516047.1	scaffold624	112419	GG	AA	AA	INTERGENIC		
SNP_79482_A_112523	NW_004516047.1	scaffold624	112523	AA	GG	GG	INTERGENIC		
SNP_79483_A_112596	NW_004516047.1	scaffold624	112596	CC	TT	TT	INTERGENIC		
SNP_79484_A_124625	NW_004516047.1	scaffold624	124625	TT	AA	AA	INTRON	id203662	Unknown function
SNP_79485_A_136886	NW_004516047.1	scaffold624	136886	GG	CC	CC	INTERGENIC		
SNP_79486_A_136887	NW_004516047.1	scaffold624	136887	AA	CC	CC	INTERGENIC		
SNP_79487_A_136904	NW_004516047.1	scaffold624	136904	CC	TT	TT	INTERGENIC		
SNP_79488_A_149069	NW_004516047.1	scaffold624	149069	CC	TT	TT	INTERGENIC		
SNP_79489_A_171955	NW_004516047.1	scaffold624	171955	CC	GG	GG	INTERGENIC		
SNP_79490_A_171966	NW_004516047.1	scaffold624	171966	AA	GG	GG	INTERGENIC		
SNP_79491_A_171969	NW_004516047.1	scaffold624	171969	GG	AA	AA	INTERGENIC		
SNP_79492_A_171988	NW_004516047.1	scaffold624	171988	TT	GG	GG	INTERGENIC		
SNP_79493_A_171996	NW_004516047.1	scaffold624	171996	CC	AA	AA	INTERGENIC		
SNP_79494_A_187688	NW_004516047.1	scaffold624	187688	GG	AA	AA	INTERGENIC		
SNP_79495_A_187702	NW_004516047.1	scaffold624	187702	TT	CC	CC	INTERGENIC		
SNP_79496_A_188070	NW_004516047.1	scaffold624	188070	GG	AA	AA	INTERGENIC		
SNP_79497_A_188162	NW_004516047.1	scaffold624	188162	GG	AA	AA	INTERGENIC		
SNP_79498_A_188201	NW_004516047.1	scaffold624	188201	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79499_A_188267	NW_004516047.1	scaffold624	188267	CC	TT	TT	INTERGENIC		
SNP_79500_A_188285	NW_004516047.1	scaffold624	188285	TT	CC	CC	INTERGENIC		
SNP_79501_A_240657	NW_004516047.1	scaffold624	240657	CC	TT	TT	INTRON	101502632	DNA replication ATP-dependent helicase/nuclease DNA2
SNP_79502_A_254971	NW_004516047.1	scaffold624	254971	GG	AA	AA	URR	101502632	DNA replication ATP-dependent helicase/nuclease DNA2
SNP_79503_A_255402	NW_004516047.1	scaffold624	255402	AA	GG	GG	URR	101502632	DNA replication ATP-dependent helicase/nuclease DNA2
SNP_79504_A_255452	NW_004516047.1	scaffold624	255452	AA	GG	GG	URR	101502632	DNA replication ATP-dependent helicase/nuclease DNA2
SNP_79505_A_255835	NW_004516047.1	scaffold624	255835	CC	AA	AA	URR	101502632	DNA replication ATP-dependent helicase/nuclease DNA2
SNP_79506_A_256625	NW_004516047.1	scaffold624	256625	GG	AA	AA	NON_SYNONYMOUS_CODING	101502951	Unknown function
SNP_79507_A_265764	NW_004516047.1	scaffold624	265764	TT	GG	GG	INTRON	101502951	Unknown function
SNP_79508_A_307920	NW_004516047.1	scaffold624	307920	AA	CC	CC	INTERGENIC		
SNP_79509_A_310390	NW_004516047.1	scaffold624	310390	AA	TT	TT	INTERGENIC		
SNP_79510_A_5455	NW_004516049.1	scaffold626	5455	TT	AA	AA	INTERGENIC		
SNP_79511_A_5489	NW_004516049.1	scaffold626	5489	AA	TT	TT	INTERGENIC		
SNP_79512_A_6009	NW_004516049.1	scaffold626	6009	AA	GG	GG	INTERGENIC		
SNP_79513_A_6165	NW_004516049.1	scaffold626	6165	AA	GG	GG	INTERGENIC		
SNP_79514_A_6481	NW_004516049.1	scaffold626	6481	TT	CC	CC	INTERGENIC		
SNP_79515_A_6543	NW_004516049.1	scaffold626	6543	AA	GG	GG	INTERGENIC		
SNP_79516_A_18188	NW_004516049.1	scaffold626	18188	TT	CC	CC	INTERGENIC		
SNP_79517_A_18222	NW_004516049.1	scaffold626	18222	GG	AA	AA	INTERGENIC		
SNP_79518_A_18237	NW_004516049.1	scaffold626	18237	TT	AA	AA	INTERGENIC		
SNP_79519_A_18602	NW_004516049.1	scaffold626	18602	TT	CC	CC	INTERGENIC		
SNP_79520_A_23815	NW_004516049.1	scaffold626	23815	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79521_A_23952	NW_004516049.1	scaffold626	23952	AA	CC	CC	INTERGENIC			
SNP_79522_A_27884	NW_004516049.1	scaffold626	27884	TT	GG	GG	INTERGENIC			
SNP_79523_A_48653	NW_004516049.1	scaffold626	48653	GG	TT	TT	INTERGENIC			
SNP_79524_A_55846	NW_004516049.1	scaffold626	55846	GG	AA	AA	INTERGENIC			
SNP_79525_A_55852	NW_004516049.1	scaffold626	55852	AA	GG	GG	INTERGENIC			
SNP_79527_A_70263	NW_004516049.1	scaffold626	70263	TT	GG	GG	INTERGENIC			
SNP_79528_A_82117	NW_004516049.1	scaffold626	82117	GG	TT	TT	INTERGENIC			
SNP_79529_A_85568	NW_004516049.1	scaffold626	85568	CC	GG	GG	INTERGENIC			
SNP_79530_A_91525	NW_004516049.1	scaffold626	91525	TT	AA	AA	INTERGENIC			
SNP_79531_A_94448	NW_004516049.1	scaffold626	94448	TT	GG	GG	INTERGENIC			
SNP_79533_A_99336	NW_004516049.1	scaffold626	99336	CC	GG	GG	INTERGENIC			
SNP_79534_A_105853	NW_004516049.1	scaffold626	105853	GG	AA	AA	INTERGENIC			
SNP_79535_A_117847	NW_004516049.1	scaffold626	117847	AA	CC	CC	INTERGENIC			
SNP_79536_A_117858	NW_004516049.1	scaffold626	117858	TT	GG	GG	INTERGENIC			
SNP_79537_A_118127	NW_004516049.1	scaffold626	118127	GG	AA	AA	INTERGENIC			
SNP_79538_A_119154	NW_004516049.1	scaffold626	119154	CC	TT	TT	INTERGENIC			
SNP_79539_A_135674	NW_004516049.1	scaffold626	135674	AA	TT	TT	INTERGENIC			
SNP_79540_A_135675	NW_004516049.1	scaffold626	135675	TT	GG	GG	INTERGENIC			
SNP_79541_A_135677	NW_004516049.1	scaffold626	135677	GG	AA	AA	INTERGENIC			
SNP_79542_A_135717	NW_004516049.1	scaffold626	135717	GG	AA	AA	INTERGENIC			
SNP_79543_A_136024	NW_004516049.1	scaffold626	136024	GG	AA	AA	INTERGENIC			
SNP_79544_A_136854	NW_004516049.1	scaffold626	136854	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79545_A_172204	NW_004516049.1	scaffold626	172204	AA	GG	GG	INTERGENIC			
SNP_79546_A_172623	NW_004516049.1	scaffold626	172623	GG	AA	AA	INTERGENIC			
SNP_79547_A_172713	NW_004516049.1	scaffold626	172713	CC	TT	TT	INTERGENIC			
SNP_79549_A_172789	NW_004516049.1	scaffold626	172789	AA	GG	GG	INTERGENIC			
SNP_79550_A_173228	NW_004516049.1	scaffold626	173228	AA	CC	CC	INTERGENIC			
SNP_79551_A_174140	NW_004516049.1	scaffold626	174140	GG	TT	TT	INTERGENIC			
SNP_79552_A_194131	NW_004516049.1	scaffold626	194131	GG	TT	TT	INTERGENIC			
SNP_79553_A_202285	NW_004516049.1	scaffold626	202285	TT	CC	CC	INTERGENIC			
SNP_79554_A_202449	NW_004516049.1	scaffold626	202449	GG	AA	AA	INTERGENIC			
SNP_79555_A_205568	NW_004516049.1	scaffold626	205568	CC	TT	TT	INTERGENIC			
SNP_79556_A_205711	NW_004516049.1	scaffold626	205711	AA	GG	GG	INTERGENIC			
SNP_79557_A_205715	NW_004516049.1	scaffold626	205715	AA	TT	TT	INTERGENIC			
SNP_79558_A_208774	NW_004516049.1	scaffold626	208774	TT	AA	AA	INTERGENIC			
SNP_79559_A_209302	NW_004516049.1	scaffold626	209302	TT	CC	CC	INTERGENIC			
SNP_79560_A_209418	NW_004516049.1	scaffold626	209418	CC	AA	AA	INTERGENIC			
SNP_79561_A_209560	NW_004516049.1	scaffold626	209560	CC	TT	TT	INTERGENIC			
SNP_79562_A_209618	NW_004516049.1	scaffold626	209618	GG	AA	AA	INTERGENIC			
SNP_79563_A_209828	NW_004516049.1	scaffold626	209828	GG	TT	TT	DRR	101503926	uncharacterized LOC101503926	
SNP_79564_A_210182	NW_004516049.1	scaffold626	210182	AA	GG	GG	DRR	101503926	uncharacterized LOC101503926	
SNP_79565_A_210183	NW_004516049.1	scaffold626	210183	TT	AA	AA	DRR	101503926	uncharacterized LOC101503926	
SNP_79566_A_210254	NW_004516049.1	scaffold626	210254	AA	CC	CC	DRR	101503926	uncharacterized LOC101503926	
SNP_79567_A_210509	NW_004516049.1	scaffold626	210509	CC	TT	TT	DRR	101503926	uncharacterized LOC101503926	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_79568_A_210759	NW_004516049.1	scaffold626	210759	CC	TT	TT	NON_SYNONYMOUS_CODING	101503926	uncharacterized LOC101503926
SNP_79569_A_212943	NW_004516049.1	scaffold626	212943	GG	CC	CC	URR	101503926	uncharacterized LOC101503926
SNP_79570_A_213029	NW_004516049.1	scaffold626	213029	AA	GG	GG	URR	101503926	uncharacterized LOC101503926
SNP_79571_A_213230	NW_004516049.1	scaffold626	213230	AA	CC	CC	INTERGENIC		
SNP_79572_A_213316	NW_004516049.1	scaffold626	213316	AA	CC	CC	INTERGENIC		
SNP_79573_A_214921	NW_004516049.1	scaffold626	214921	CC	TT	TT	INTERGENIC		
SNP_79574_A_218715	NW_004516049.1	scaffold626	218715	TT	CC	CC	INTERGENIC		
SNP_79575_A_218871	NW_004516049.1	scaffold626	218871	TT	CC	CC	INTERGENIC		
SNP_79577_A_219303	NW_004516049.1	scaffold626	219303	TT	GG	GG	INTERGENIC		
SNP_79578_A_219444	NW_004516049.1	scaffold626	219444	TT	AA	AA	INTERGENIC		
SNP_79579_A_219481	NW_004516049.1	scaffold626	219481	AA	GG	GG	INTERGENIC		
SNP_79580_A_219544	NW_004516049.1	scaffold626	219544	TT	AA	AA	INTERGENIC		
SNP_79581_A_219547	NW_004516049.1	scaffold626	219547	AA	TT	TT	INTERGENIC		
SNP_79582_A_219578	NW_004516049.1	scaffold626	219578	TT	CC	CC	INTERGENIC		
SNP_79583_A_219791	NW_004516049.1	scaffold626	219791	AA	GG	GG	INTERGENIC		
SNP_79584_A_220110	NW_004516049.1	scaffold626	220110	TT	CC	CC	INTERGENIC		
SNP_79585_A_220181	NW_004516049.1	scaffold626	220181	TT	CC	CC	INTERGENIC		
SNP_79586_A_220250	NW_004516049.1	scaffold626	220250	GG	TT	TT	INTERGENIC		
SNP_79587_A_220467	NW_004516049.1	scaffold626	220467	CC	TT	TT	INTERGENIC		
SNP_79588_A_220789	NW_004516049.1	scaffold626	220789	TT	CC	CC	INTERGENIC		
SNP_79589_A_222190	NW_004516049.1	scaffold626	222190	GG	AA	AA	INTERGENIC		
SNP_79590_A_222214	NW_004516049.1	scaffold626	222214	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79591_A_224450	NW_004516049.1	scaffold626	224450	CC	TT	TT	INTERGENIC			
SNP_79592_A_224469	NW_004516049.1	scaffold626	224469	GG	TT	TT	INTERGENIC			
SNP_79593_A_224482	NW_004516049.1	scaffold626	224482	TT	GG	GG	INTERGENIC			
SNP_79594_A_224627	NW_004516049.1	scaffold626	224627	TT	CC	CC	INTERGENIC			
SNP_79595_A_224630	NW_004516049.1	scaffold626	224630	AA	CC	CC	INTERGENIC			
SNP_79596_A_224662	NW_004516049.1	scaffold626	224662	TT	AA	AA	INTERGENIC			
SNP_79597_A_224670	NW_004516049.1	scaffold626	224670	CC	TT	TT	INTERGENIC			
SNP_79598_A_224768	NW_004516049.1	scaffold626	224768	AA	TT	TT	INTERGENIC			
SNP_79599_A_224794	NW_004516049.1	scaffold626	224794	GG	AA	AA	INTERGENIC			
SNP_79600_A_224803	NW_004516049.1	scaffold626	224803	AA	GG	GG	INTERGENIC			
SNP_79601_A_224944	NW_004516049.1	scaffold626	224944	TT	CC	CC	INTERGENIC			
SNP_79602_A_224957	NW_004516049.1	scaffold626	224957	AA	GG	GG	INTERGENIC			
SNP_79604_A_225211	NW_004516049.1	scaffold626	225211	GG	AA	AA	INTERGENIC			
SNP_79605_A_225250	NW_004516049.1	scaffold626	225250	CC	TT	TT	INTERGENIC			
SNP_79606_A_225356	NW_004516049.1	scaffold626	225356	AA	GG	GG	INTERGENIC			
SNP_79607_A_225532	NW_004516049.1	scaffold626	225532	CC	TT	TT	INTERGENIC			
SNP_79608_A_225604	NW_004516049.1	scaffold626	225604	CC	AA	AA	INTERGENIC			
SNP_79609_A_225696	NW_004516049.1	scaffold626	225696	AA	GG	GG	INTERGENIC			
SNP_79610_A_227538	NW_004516049.1	scaffold626	227538	AA	CC	CC	INTERGENIC			
SNP_79611_A_227607	NW_004516049.1	scaffold626	227607	GG	AA	AA	INTERGENIC			
SNP_79612_A_227875	NW_004516049.1	scaffold626	227875	GG	CC	CC	INTERGENIC			
SNP_79613_A_227909	NW_004516049.1	scaffold626	227909	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79614_A_227921	NW_004516049.1	scaffold626	227921	GG	AA	AA	INTERGENIC			
SNP_79615_A_227964	NW_004516049.1	scaffold626	227964	AA	TT	TT	INTERGENIC			
SNP_79616_A_228029	NW_004516049.1	scaffold626	228029	CC	AA	AA	INTERGENIC			
SNP_79617_A_228046	NW_004516049.1	scaffold626	228046	TT	CC	CC	INTERGENIC			
SNP_79618_A_228096	NW_004516049.1	scaffold626	228096	TT	AA	AA	INTERGENIC			
SNP_79619_A_228112	NW_004516049.1	scaffold626	228112	TT	CC	CC	INTERGENIC			
SNP_79620_A_228535	NW_004516049.1	scaffold626	228535	TT	GG	GG	INTERGENIC			
SNP_79621_A_228614	NW_004516049.1	scaffold626	228614	GG	AA	AA	INTERGENIC			
SNP_79622_A_228746	NW_004516049.1	scaffold626	228746	CC	AA	AA	INTERGENIC			
SNP_79623_A_228749	NW_004516049.1	scaffold626	228749	TT	AA	AA	INTERGENIC			
SNP_79624_A_228972	NW_004516049.1	scaffold626	228972	GG	AA	AA	INTERGENIC			
SNP_79625_A_229059	NW_004516049.1	scaffold626	229059	CC	AA	AA	INTERGENIC			
SNP_79626_A_229268	NW_004516049.1	scaffold626	229268	CC	TT	TT	INTERGENIC			
SNP_79627_A_229381	NW_004516049.1	scaffold626	229381	GG	AA	AA	INTERGENIC			
SNP_79630_A_231836	NW_004516049.1	scaffold626	231836	GG	CC	CC	NON_SYNONYMOUS_CODING	101504244		uncharacterized LOC101504244
SNP_79631_A_233303	NW_004516049.1	scaffold626	233303	CC	TT	TT	SYNONYMOUS_CODING	101504244		uncharacterized LOC101504244
SNP_79632_A_235372	NW_004516049.1	scaffold626	235372	CC	AA	AA	URR	101504244		uncharacterized LOC101504244
SNP_79633_A_235647	NW_004516049.1	scaffold626	235647	TT	CC	CC	INTERGENIC			
SNP_79634_A_235895	NW_004516049.1	scaffold626	235895	TT	CC	CC	INTERGENIC			
SNP_79635_A_236055	NW_004516049.1	scaffold626	236055	TT	AA	AA	INTERGENIC			
SNP_79637_A_236232	NW_004516049.1	scaffold626	236232	CC	GG	GG	INTERGENIC			
SNP_79638_A_236233	NW_004516049.1	scaffold626	236233	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79639_A_236236	NW_004516049.1	scaffold626	236236	TT	AA	AA	INTERGENIC			
SNP_79640_A_236240	NW_004516049.1	scaffold626	236240	CC	GG	GG	INTERGENIC			
SNP_79641_A_236243	NW_004516049.1	scaffold626	236243	AA	CC	CC	INTERGENIC			
SNP_79642_A_236437	NW_004516049.1	scaffold626	236437	CC	TT	TT	INTERGENIC			
SNP_79643_A_236458	NW_004516049.1	scaffold626	236458	GG	AA	AA	INTERGENIC			
SNP_79644_A_236623	NW_004516049.1	scaffold626	236623	CC	TT	TT	INTERGENIC			
SNP_79645_A_236711	NW_004516049.1	scaffold626	236711	TT	GG	GG	INTERGENIC			
SNP_79646_A_236763	NW_004516049.1	scaffold626	236763	TT	CC	CC	INTERGENIC			
SNP_79648_A_236956	NW_004516049.1	scaffold626	236956	CC	GG	GG	INTERGENIC			
SNP_79649_A_236994	NW_004516049.1	scaffold626	236994	TT	GG	GG	INTERGENIC			
SNP_79650_A_237099	NW_004516049.1	scaffold626	237099	TT	AA	AA	INTERGENIC			
SNP_79651_A_237112	NW_004516049.1	scaffold626	237112	GG	CC	CC	INTERGENIC			
SNP_79652_A_237145	NW_004516049.1	scaffold626	237145	CC	GG	GG	INTERGENIC			
SNP_79653_A_237290	NW_004516049.1	scaffold626	237290	TT	CC	CC	INTERGENIC			
SNP_79654_A_237397	NW_004516049.1	scaffold626	237397	GG	AA	AA	INTERGENIC			
SNP_79655_A_237490	NW_004516049.1	scaffold626	237490	AA	GG	GG	INTERGENIC			
SNP_79656_A_237632	NW_004516049.1	scaffold626	237632	CC	TT	TT	INTERGENIC			
SNP_79657_A_237875	NW_004516049.1	scaffold626	237875	TT	GG	GG	INTERGENIC			
SNP_79658_A_237882	NW_004516049.1	scaffold626	237882	TT	AA	AA	INTERGENIC			
SNP_79659_A_237962	NW_004516049.1	scaffold626	237962	AA	GG	GG	INTERGENIC			
SNP_79660_A_238225	NW_004516049.1	scaffold626	238225	CC	TT	TT	INTERGENIC			
SNP_79661_A_238287	NW_004516049.1	scaffold626	238287	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79662_A_238331	NW_004516049.1	scaffold626	238331	TT	CC	CC	INTERGENIC			
SNP_79664_A_240442	NW_004516049.1	scaffold626	240442	AA	GG	GG	INTERGENIC			
SNP_79665_A_240458	NW_004516049.1	scaffold626	240458	CC	TT	TT	INTERGENIC			
SNP_79666_A_240883	NW_004516049.1	scaffold626	240883	GG	TT	TT	INTERGENIC			
SNP_79667_A_240912	NW_004516049.1	scaffold626	240912	TT	CC	CC	INTERGENIC			
SNP_79668_A_240914	NW_004516049.1	scaffold626	240914	TT	AA	AA	INTERGENIC			
SNP_79669_A_240989	NW_004516049.1	scaffold626	240989	TT	AA	AA	INTERGENIC			
SNP_79670_A_241252	NW_004516049.1	scaffold626	241252	TT	GG	GG	INTERGENIC			
SNP_79671_A_241881	NW_004516049.1	scaffold626	241881	TT	GG	GG	INTERGENIC			
SNP_79672_A_242072	NW_004516049.1	scaffold626	242072	AA	CC	CC	INTERGENIC			
SNP_79674_A_254286	NW_004516049.1	scaffold626	254286	AA	TT	TT	INTERGENIC			
SNP_79675_A_254549	NW_004516049.1	scaffold626	254549	TT	CC	CC	INTERGENIC			
SNP_79676_A_254710	NW_004516049.1	scaffold626	254710	CC	AA	AA	INTERGENIC			
SNP_79677_A_255213	NW_004516049.1	scaffold626	255213	AA	GG	GG	INTERGENIC			
SNP_79678_A_255268	NW_004516049.1	scaffold626	255268	AA	TT	TT	INTERGENIC			
SNP_79679_A_256281	NW_004516049.1	scaffold626	256281	TT	CC	CC	INTERGENIC			
SNP_79680_A_257215	NW_004516049.1	scaffold626	257215	CC	GG	GG	INTERGENIC			
SNP_79681_A_257397	NW_004516049.1	scaffold626	257397	AA	TT	TT	INTERGENIC			
SNP_79682_A_257428	NW_004516049.1	scaffold626	257428	CC	TT	TT	INTERGENIC			
SNP_79683_A_257787	NW_004516049.1	scaffold626	257787	GG	CC	CC	INTERGENIC			
SNP_79684_A_257791	NW_004516049.1	scaffold626	257791	CC	TT	TT	INTERGENIC			
SNP_79685_A_257876	NW_004516049.1	scaffold626	257876	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79686_A_257908	NW_004516049.1	scaffold626	257908	TT	CC	CC	INTERGENIC			
SNP_79687_A_257928	NW_004516049.1	scaffold626	257928	GG	AA	AA	INTERGENIC			
SNP_79688_A_257943	NW_004516049.1	scaffold626	257943	CC	TT	TT	INTERGENIC			
SNP_79689_A_258030	NW_004516049.1	scaffold626	258030	GG	CC	CC	INTERGENIC			
SNP_79690_A_258032	NW_004516049.1	scaffold626	258032	TT	GG	GG	INTERGENIC			
SNP_79691_A_258080	NW_004516049.1	scaffold626	258080	CC	TT	TT	INTERGENIC			
SNP_79693_A_258136	NW_004516049.1	scaffold626	258136	AA	TT	TT	INTERGENIC			
SNP_79694_A_258223	NW_004516049.1	scaffold626	258223	GG	TT	TT	INTERGENIC			
SNP_79695_A_258376	NW_004516049.1	scaffold626	258376	AA	GG	GG	INTERGENIC			
SNP_79696_A_259187	NW_004516049.1	scaffold626	259187	CC	AA	AA	INTERGENIC			
SNP_79697_A_259342	NW_004516049.1	scaffold626	259342	AA	TT	TT	INTERGENIC			
SNP_79698_A_259754	NW_004516049.1	scaffold626	259754	TT	GG	GG	INTERGENIC			
SNP_79699_A_260310	NW_004516049.1	scaffold626	260310	AA	TT	TT	INTERGENIC			
SNP_79700_A_260437	NW_004516049.1	scaffold626	260437	GG	CC	CC	INTERGENIC			
SNP_79701_A_260651	NW_004516049.1	scaffold626	260651	TT	CC	CC	INTERGENIC			
SNP_79702_A_260744	NW_004516049.1	scaffold626	260744	AA	GG	GG	INTERGENIC			
SNP_79703_A_260947	NW_004516049.1	scaffold626	260947	CC	TT	TT	INTERGENIC			
SNP_79704_A_260974	NW_004516049.1	scaffold626	260974	GG	AA	AA	INTERGENIC			
SNP_79705_A_261054	NW_004516049.1	scaffold626	261054	TT	AA	AA	INTERGENIC			
SNP_79706_A_261093	NW_004516049.1	scaffold626	261093	CC	TT	TT	INTERGENIC			
SNP_79708_A_268265	NW_004516049.1	scaffold626	268265	GG	TT	TT	INTERGENIC			
SNP_79709_A_268477	NW_004516049.1	scaffold626	268477	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79710_A_270224	NW_004516049.1	scaffold626	270224	TT	AA	AA	INTERGENIC			
SNP_79711_A_270302	NW_004516049.1	scaffold626	270302	GG	TT	TT	INTERGENIC			
SNP_79712_A_270420	NW_004516049.1	scaffold626	270420	CC	AA	AA	INTERGENIC			
SNP_79713_A_270450	NW_004516049.1	scaffold626	270450	GG	AA	AA	INTERGENIC			
SNP_79714_A_270475	NW_004516049.1	scaffold626	270475	GG	CC	CC	INTERGENIC			
SNP_79715_A_270530	NW_004516049.1	scaffold626	270530	CC	TT	TT	INTERGENIC			
SNP_79716_A_270544	NW_004516049.1	scaffold626	270544	GG	AA	AA	INTERGENIC			
SNP_79717_A_270568	NW_004516049.1	scaffold626	270568	AA	GG	GG	INTERGENIC			
SNP_79718_A_270613	NW_004516049.1	scaffold626	270613	TT	AA	AA	INTERGENIC			
SNP_79719_A_270614	NW_004516049.1	scaffold626	270614	AA	TT	TT	INTERGENIC			
SNP_79720_A_270760	NW_004516049.1	scaffold626	270760	TT	GG	GG	INTERGENIC			
SNP_79721_A_270972	NW_004516049.1	scaffold626	270972	TT	GG	GG	INTERGENIC			
SNP_79722_A_271736	NW_004516049.1	scaffold626	271736	CC	GG	GG	INTERGENIC			
SNP_79723_A_272096	NW_004516049.1	scaffold626	272096	TT	CC	CC	INTERGENIC			
SNP_79724_A_272144	NW_004516049.1	scaffold626	272144	GG	CC	CC	INTERGENIC			
SNP_79725_A_274146	NW_004516049.1	scaffold626	274146	TT	CC	CC	INTERGENIC			
SNP_79726_A_274173	NW_004516049.1	scaffold626	274173	AA	GG	GG	INTERGENIC			
SNP_79727_A_274268	NW_004516049.1	scaffold626	274268	TT	GG	GG	INTERGENIC			
SNP_79728_A_274282	NW_004516049.1	scaffold626	274282	TT	CC	CC	INTERGENIC			
SNP_79729_A_274936	NW_004516049.1	scaffold626	274936	AA	GG	GG	INTERGENIC			
SNP_79730_A_275088	NW_004516049.1	scaffold626	275088	TT	CC	CC	INTERGENIC			
SNP_79731_A_275132	NW_004516049.1	scaffold626	275132	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79732_A_275139	NW_004516049.1	scaffold626	275139	TT	AA	AA	INTERGENIC			
SNP_79733_A_275234	NW_004516049.1	scaffold626	275234	TT	AA	AA	INTERGENIC			
SNP_79734_A_275393	NW_004516049.1	scaffold626	275393	GG	AA	AA	INTERGENIC			
SNP_79735_A_275484	NW_004516049.1	scaffold626	275484	GG	AA	AA	INTERGENIC			
SNP_79736_A_275494	NW_004516049.1	scaffold626	275494	TT	GG	GG	INTERGENIC			
SNP_79737_A_275521	NW_004516049.1	scaffold626	275521	AA	GG	GG	INTERGENIC			
SNP_79738_A_275719	NW_004516049.1	scaffold626	275719	AA	GG	GG	INTERGENIC			
SNP_79739_A_275745	NW_004516049.1	scaffold626	275745	AA	GG	GG	INTERGENIC			
SNP_79740_A_276028	NW_004516049.1	scaffold626	276028	AA	TT	TT	INTERGENIC			
SNP_79741_A_280877	NW_004516049.1	scaffold626	280877	GG	AA	AA	INTERGENIC			
SNP_79742_A_280915	NW_004516049.1	scaffold626	280915	TT	AA	AA	INTERGENIC			
SNP_79743_A_281026	NW_004516049.1	scaffold626	281026	GG	AA	AA	INTERGENIC			
SNP_79744_A_281247	NW_004516049.1	scaffold626	281247	AA	GG	GG	INTERGENIC			
SNP_79745_A_281429	NW_004516049.1	scaffold626	281429	GG	AA	AA	INTERGENIC			
SNP_79746_A_281570	NW_004516049.1	scaffold626	281570	AA	TT	TT	INTERGENIC			
SNP_79747_A_281623	NW_004516049.1	scaffold626	281623	TT	AA	AA	INTERGENIC			
SNP_79748_A_281636	NW_004516049.1	scaffold626	281636	AA	GG	GG	INTERGENIC			
SNP_79749_A_281761	NW_004516049.1	scaffold626	281761	AA	TT	TT	INTERGENIC			
SNP_79750_A_281898	NW_004516049.1	scaffold626	281898	CC	GG	GG	INTERGENIC			
SNP_79751_A_281914	NW_004516049.1	scaffold626	281914	AA	GG	GG	INTERGENIC			
SNP_79752_A_282452	NW_004516049.1	scaffold626	282452	TT	GG	GG	INTERGENIC			
SNP_79753_A_282476	NW_004516049.1	scaffold626	282476	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79754_A_283121	NW_004516049.1	scaffold626	283121	AA	TT	TT	INTERGENIC			
SNP_79755_A_285446	NW_004516049.1	scaffold626	285446	GG	CC	CC	INTERGENIC			
SNP_79756_A_291610	NW_004516049.1	scaffold626	291610	CC	TT	TT	INTERGENIC			
SNP_79757_A_296059	NW_004516049.1	scaffold626	296059	CC	TT	TT	INTERGENIC			
SNP_79758_A_296083	NW_004516049.1	scaffold626	296083	CC	TT	TT	INTERGENIC			
SNP_79759_A_296095	NW_004516049.1	scaffold626	296095	CC	TT	TT	INTERGENIC			
SNP_79760_A_296160	NW_004516049.1	scaffold626	296160	TT	GG	GG	INTERGENIC			
SNP_79761_A_296310	NW_004516049.1	scaffold626	296310	TT	AA	AA	INTERGENIC			
SNP_79762_A_296396	NW_004516049.1	scaffold626	296396	TT	CC	CC	INTERGENIC			
SNP_79763_A_296401	NW_004516049.1	scaffold626	296401	GG	AA	AA	INTERGENIC			
SNP_79764_A_296405	NW_004516049.1	scaffold626	296405	GG	AA	AA	INTERGENIC			
SNP_79765_A_299455	NW_004516049.1	scaffold626	299455	TT	CC	CC	INTERGENIC			
SNP_79766_A_302569	NW_004516049.1	scaffold626	302569	CC	TT	TT	INTERGENIC			
SNP_79767_A_331462	NW_004516049.1	scaffold626	331462	TT	AA	AA	INTERGENIC			
SNP_79769_A_340581	NW_004516049.1	scaffold626	340581	CC	TT	TT	INTERGENIC			
SNP_79770_A_347589	NW_004516049.1	scaffold626	347589	CC	TT	TT	INTERGENIC			
SNP_79771_A_351725	NW_004516049.1	scaffold626	351725	TT	CC	CC	INTERGENIC			
SNP_79772_A_351764	NW_004516049.1	scaffold626	351764	GG	AA	AA	INTERGENIC			
SNP_79773_A_351781	NW_004516049.1	scaffold626	351781	GG	AA	AA	INTERGENIC			
SNP_79774_A_351808	NW_004516049.1	scaffold626	351808	CC	AA	AA	INTERGENIC			
SNP_79775_A_352112	NW_004516049.1	scaffold626	352112	CC	TT	TT	INTERGENIC			
SNP_79776_A_357394	NW_004516049.1	scaffold626	357394	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79777_A_357406	NW_004516049.1	scaffold626	357406	AA	TT	TT	INTERGENIC			
SNP_79778_A_368053	NW_004516049.1	scaffold626	368053	GG	TT	TT	INTERGENIC			
SNP_79779_A_371186	NW_004516049.1	scaffold626	371186	AA	GG	GG	INTERGENIC			
SNP_79780_A_371611	NW_004516049.1	scaffold626	371611	GG	TT	TT	INTERGENIC			
SNP_79782_A_376745	NW_004516049.1	scaffold626	376745	GG	TT	TT	INTERGENIC			
SNP_79783_A_376749	NW_004516049.1	scaffold626	376749	AA	TT	TT	INTERGENIC			
SNP_79784_A_376825	NW_004516049.1	scaffold626	376825	TT	AA	AA	INTERGENIC			
SNP_79785_A_385976	NW_004516049.1	scaffold626	385976	CC	GG	GG	INTERGENIC			
SNP_79786_A_386051	NW_004516049.1	scaffold626	386051	AA	CC	CC	INTERGENIC			
SNP_79787_A_386058	NW_004516049.1	scaffold626	386058	TT	CC	CC	INTERGENIC			
SNP_79788_A_386096	NW_004516049.1	scaffold626	386096	TT	CC	CC	INTERGENIC			
SNP_79789_A_386307	NW_004516049.1	scaffold626	386307	TT	CC	CC	INTERGENIC			
SNP_79790_A_386312	NW_004516049.1	scaffold626	386312	TT	AA	AA	INTERGENIC			
SNP_79791_A_386374	NW_004516049.1	scaffold626	386374	AA	GG	GG	INTERGENIC			
SNP_79792_A_387876	NW_004516049.1	scaffold626	387876	GG	AA	AA	INTERGENIC			
SNP_79794_A_387925	NW_004516049.1	scaffold626	387925	TT	AA	AA	INTERGENIC			
SNP_79795_A_388151	NW_004516049.1	scaffold626	388151	TT	AA	AA	INTERGENIC			
SNP_79796_A_388211	NW_004516049.1	scaffold626	388211	CC	GG	GG	INTERGENIC			
SNP_79797_A_388212	NW_004516049.1	scaffold626	388212	AA	GG	GG	INTERGENIC			
SNP_79798_A_388253	NW_004516049.1	scaffold626	388253	AA	TT	TT	INTERGENIC			
SNP_79799_A_388256	NW_004516049.1	scaffold626	388256	AA	TT	TT	INTERGENIC			
SNP_79800_A_388453	NW_004516049.1	scaffold626	388453	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79801_A_388458	NW_004516049.1	scaffold626	388458	GG	AA	AA	INTERGENIC			
SNP_79802_A_400492	NW_004516049.1	scaffold626	400492	CC	TT	TT	INTERGENIC			
SNP_79803_A_420631	NW_004516049.1	scaffold626	420631	CC	GG	GG	INTERGENIC			
SNP_79804_A_420636	NW_004516049.1	scaffold626	420636	CC	TT	TT	INTERGENIC			
SNP_79805_A_420740	NW_004516049.1	scaffold626	420740	AA	GG	GG	INTERGENIC			
SNP_79806_A_424212	NW_004516049.1	scaffold626	424212	AA	GG	GG	INTERGENIC			
SNP_79807_A_424519	NW_004516049.1	scaffold626	424519	TT	CC	CC	INTERGENIC			
SNP_79808_A_424547	NW_004516049.1	scaffold626	424547	AA	GG	GG	INTERGENIC			
SNP_79809_A_434228	NW_004516049.1	scaffold626	434228	AA	CC	CC	INTERGENIC			
SNP_79810_A_435781	NW_004516049.1	scaffold626	435781	AA	CC	CC	INTERGENIC			
SNP_79811_A_435805	NW_004516049.1	scaffold626	435805	AA	GG	GG	INTERGENIC			
SNP_79812_A_449934	NW_004516049.1	scaffold626	449934	AA	CC	CC	INTERGENIC			
SNP_79813_A_451642	NW_004516049.1	scaffold626	451642	CC	TT	TT	INTERGENIC			
SNP_79814_A_451660	NW_004516049.1	scaffold626	451660	CC	GG	GG	INTERGENIC			
SNP_79815_A_451724	NW_004516049.1	scaffold626	451724	GG	CC	CC	INTERGENIC			
SNP_79816_A_451807	NW_004516049.1	scaffold626	451807	GG	AA	AA	INTERGENIC			
SNP_79817_A_451929	NW_004516049.1	scaffold626	451929	AA	TT	TT	INTERGENIC			
SNP_79818_A_451936	NW_004516049.1	scaffold626	451936	GG	TT	TT	INTERGENIC			
SNP_79819_A_452078	NW_004516049.1	scaffold626	452078	CC	GG	GG	INTERGENIC			
SNP_79820_A_452145	NW_004516049.1	scaffold626	452145	TT	CC	CC	INTERGENIC			
SNP_79821_A_452379	NW_004516049.1	scaffold626	452379	TT	AA	AA	INTERGENIC			
SNP_79822_A_452390	NW_004516049.1	scaffold626	452390	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79823_A_452401	NW_004516049.1	scaffold626	452401	TT	GG	GG	INTERGENIC			
SNP_79825_A_452853	NW_004516049.1	scaffold626	452853	GG	AA	AA	INTERGENIC			
SNP_79826_A_453066	NW_004516049.1	scaffold626	453066	AA	GG	GG	INTERGENIC			
SNP_79827_A_453456	NW_004516049.1	scaffold626	453456	CC	TT	TT	INTERGENIC			
SNP_79828_A_453615	NW_004516049.1	scaffold626	453615	CC	TT	TT	INTERGENIC			
SNP_79829_A_453658	NW_004516049.1	scaffold626	453658	CC	TT	TT	INTERGENIC			
SNP_79830_A_453711	NW_004516049.1	scaffold626	453711	GG	AA	AA	INTERGENIC			
SNP_79831_A_453753	NW_004516049.1	scaffold626	453753	CC	TT	TT	INTERGENIC			
SNP_79832_A_453761	NW_004516049.1	scaffold626	453761	GG	AA	AA	INTERGENIC			
SNP_79833_A_453811	NW_004516049.1	scaffold626	453811	TT	CC	CC	INTERGENIC			
SNP_79834_A_453854	NW_004516049.1	scaffold626	453854	GG	TT	TT	INTERGENIC			
SNP_79835_A_453936	NW_004516049.1	scaffold626	453936	AA	TT	TT	INTERGENIC			
SNP_79836_A_453997	NW_004516049.1	scaffold626	453997	CC	GG	GG	INTERGENIC			
SNP_79837_A_454100	NW_004516049.1	scaffold626	454100	GG	CC	CC	INTERGENIC			
SNP_79838_A_454113	NW_004516049.1	scaffold626	454113	CC	TT	TT	INTERGENIC			
SNP_79839_A_454170	NW_004516049.1	scaffold626	454170	AA	GG	GG	INTERGENIC			
SNP_79840_A_454224	NW_004516049.1	scaffold626	454224	AA	GG	GG	INTERGENIC			
SNP_79841_A_454264	NW_004516049.1	scaffold626	454264	AA	TT	TT	INTERGENIC			
SNP_79842_A_454430	NW_004516049.1	scaffold626	454430	AA	TT	TT	INTERGENIC			
SNP_79843_A_460544	NW_004516049.1	scaffold626	460544	TT	AA	AA	INTERGENIC			
SNP_79844_A_460620	NW_004516049.1	scaffold626	460620	GG	CC	CC	INTERGENIC			
SNP_79845_A_460657	NW_004516049.1	scaffold626	460657	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79846_A_460715	NW_004516049.1	scaffold626	460715	CC	TT	TT	INTERGENIC			
SNP_79847_A_460717	NW_004516049.1	scaffold626	460717	GG	CC	CC	INTERGENIC			
SNP_79848_A_461051	NW_004516049.1	scaffold626	461051	TT	AA	AA	INTERGENIC			
SNP_79849_A_461107	NW_004516049.1	scaffold626	461107	GG	TT	TT	INTERGENIC			
SNP_79850_A_461120	NW_004516049.1	scaffold626	461120	CC	GG	GG	INTERGENIC			
SNP_79851_A_461629	NW_004516049.1	scaffold626	461629	TT	CC	CC	INTERGENIC			
SNP_79852_A_461763	NW_004516049.1	scaffold626	461763	AA	CC	CC	INTERGENIC			
SNP_79853_A_462036	NW_004516049.1	scaffold626	462036	TT	CC	CC	INTERGENIC			
SNP_79854_A_463270	NW_004516049.1	scaffold626	463270	TT	AA	AA	INTERGENIC			
SNP_79855_A_463272	NW_004516049.1	scaffold626	463272	TT	AA	AA	INTERGENIC			
SNP_79856_A_463306	NW_004516049.1	scaffold626	463306	TT	GG	GG	INTERGENIC			
SNP_79857_A_463450	NW_004516049.1	scaffold626	463450	GG	TT	TT	INTERGENIC			
SNP_79858_A_463459	NW_004516049.1	scaffold626	463459	GG	AA	AA	INTERGENIC			
SNP_79859_A_463581	NW_004516049.1	scaffold626	463581	GG	TT	TT	INTERGENIC			
SNP_79860_A_463656	NW_004516049.1	scaffold626	463656	AA	CC	CC	INTERGENIC			
SNP_79861_A_463724	NW_004516049.1	scaffold626	463724	TT	AA	AA	INTERGENIC			
SNP_79862_A_463757	NW_004516049.1	scaffold626	463757	CC	TT	TT	INTERGENIC			
SNP_79863_A_463829	NW_004516049.1	scaffold626	463829	GG	AA	AA	INTERGENIC			
SNP_79864_A_463845	NW_004516049.1	scaffold626	463845	AA	GG	GG	INTERGENIC			
SNP_79865_A_463930	NW_004516049.1	scaffold626	463930	AA	GG	GG	INTERGENIC			
SNP_79866_A_464081	NW_004516049.1	scaffold626	464081	TT	CC	CC	INTERGENIC			
SNP_79867_A_464088	NW_004516049.1	scaffold626	464088	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79868_A_464195	NW_004516049.1	scaffold626	464195	GG	AA	AA	INTERGENIC			
SNP_79869_A_464307	NW_004516049.1	scaffold626	464307	GG	TT	TT	INTERGENIC			
SNP_79870_A_464499	NW_004516049.1	scaffold626	464499	AA	CC	CC	INTERGENIC			
SNP_79871_A_464595	NW_004516049.1	scaffold626	464595	GG	CC	CC	INTERGENIC			
SNP_79873_A_464698	NW_004516049.1	scaffold626	464698	CC	TT	TT	INTERGENIC			
SNP_79874_A_465011	NW_004516049.1	scaffold626	465011	TT	GG	GG	INTERGENIC			
SNP_79875_A_465303	NW_004516049.1	scaffold626	465303	TT	CC	CC	INTERGENIC			
SNP_79876_A_465312	NW_004516049.1	scaffold626	465312	CC	TT	TT	INTERGENIC			
SNP_79878_A_467499	NW_004516049.1	scaffold626	467499	AA	GG	GG	INTERGENIC			
SNP_79879_A_475333	NW_004516049.1	scaffold626	475333	TT	CC	CC	INTERGENIC			
SNP_79880_A_475473	NW_004516049.1	scaffold626	475473	AA	GG	GG	INTERGENIC			
SNP_79881_A_475517	NW_004516049.1	scaffold626	475517	CC	TT	TT	INTERGENIC			
SNP_79882_A_475973	NW_004516049.1	scaffold626	475973	AA	CC	CC	INTERGENIC			
SNP_79883_A_475988	NW_004516049.1	scaffold626	475988	AA	GG	GG	INTERGENIC			
SNP_79884_A_475991	NW_004516049.1	scaffold626	475991	GG	AA	AA	INTERGENIC			
SNP_79885_A_476016	NW_004516049.1	scaffold626	476016	CC	TT	TT	INTERGENIC			
SNP_79886_A_476018	NW_004516049.1	scaffold626	476018	CC	TT	TT	INTERGENIC			
SNP_79887_A_476020	NW_004516049.1	scaffold626	476020	GG	TT	TT	INTERGENIC			
SNP_79888_A_476413	NW_004516049.1	scaffold626	476413	TT	CC	CC	INTERGENIC			
SNP_79889_A_477279	NW_004516049.1	scaffold626	477279	TT	AA	AA	INTERGENIC			
SNP_79890_A_477437	NW_004516049.1	scaffold626	477437	CC	TT	TT	INTERGENIC			
SNP_79891_A_477617	NW_004516049.1	scaffold626	477617	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79892_A_477987	NW_004516049.1	scaffold626	477987	TT	GG	GG	INTERGENIC			
SNP_79893_A_478906	NW_004516049.1	scaffold626	478906	TT	GG	GG	INTERGENIC			
SNP_79894_A_479546	NW_004516049.1	scaffold626	479546	AA	GG	GG	INTERGENIC			
SNP_79895_A_479915	NW_004516049.1	scaffold626	479915	AA	GG	GG	INTERGENIC			
SNP_79896_A_479947	NW_004516049.1	scaffold626	479947	TT	CC	CC	INTERGENIC			
SNP_79897_A_480045	NW_004516049.1	scaffold626	480045	AA	GG	GG	INTERGENIC			
SNP_79898_A_480075	NW_004516049.1	scaffold626	480075	CC	AA	AA	INTERGENIC			
SNP_79899_A_480120	NW_004516049.1	scaffold626	480120	CC	TT	TT	INTERGENIC			
SNP_79900_A_480279	NW_004516049.1	scaffold626	480279	GG	AA	AA	INTERGENIC			
SNP_79901_A_480397	NW_004516049.1	scaffold626	480397	CC	TT	TT	INTERGENIC			
SNP_79902_A_480618	NW_004516049.1	scaffold626	480618	AA	TT	TT	INTERGENIC			
SNP_79903_A_480760	NW_004516049.1	scaffold626	480760	TT	CC	CC	INTERGENIC			
SNP_79904_A_480783	NW_004516049.1	scaffold626	480783	AA	GG	GG	INTERGENIC			
SNP_79905_A_480881	NW_004516049.1	scaffold626	480881	CC	TT	TT	INTERGENIC			
SNP_79906_A_480953	NW_004516049.1	scaffold626	480953	CC	GG	GG	INTERGENIC			
SNP_79907_A_480967	NW_004516049.1	scaffold626	480967	TT	CC	CC	INTERGENIC			
SNP_79908_A_483102	NW_004516049.1	scaffold626	483102	AA	TT	TT	INTERGENIC			
SNP_79909_A_483314	NW_004516049.1	scaffold626	483314	GG	AA	AA	INTERGENIC			
SNP_79910_A_483322	NW_004516049.1	scaffold626	483322	CC	TT	TT	INTERGENIC			
SNP_79911_A_483365	NW_004516049.1	scaffold626	483365	TT	AA	AA	INTERGENIC			
SNP_79912_A_483431	NW_004516049.1	scaffold626	483431	AA	CC	CC	INTERGENIC			
SNP_79913_A_483525	NW_004516049.1	scaffold626	483525	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79914_A_483580	NW_004516049.1	scaffold626	483580	AA	CC	CC	INTERGENIC			
SNP_79915_A_483689	NW_004516049.1	scaffold626	483689	TT	GG	GG	INTERGENIC			
SNP_79916_A_483829	NW_004516049.1	scaffold626	483829	CC	AA	AA	INTERGENIC			
SNP_79917_A_483942	NW_004516049.1	scaffold626	483942	AA	GG	GG	INTERGENIC			
SNP_79918_A_483957	NW_004516049.1	scaffold626	483957	GG	AA	AA	INTERGENIC			
SNP_79919_A_484010	NW_004516049.1	scaffold626	484010	CC	TT	TT	INTERGENIC			
SNP_79920_A_484032	NW_004516049.1	scaffold626	484032	AA	GG	GG	INTERGENIC			
SNP_79921_A_484233	NW_004516049.1	scaffold626	484233	GG	AA	AA	INTERGENIC			
SNP_79922_A_484305	NW_004516049.1	scaffold626	484305	GG	AA	AA	INTERGENIC			
SNP_79923_A_484431	NW_004516049.1	scaffold626	484431	AA	GG	GG	INTERGENIC			
SNP_79924_A_484743	NW_004516049.1	scaffold626	484743	TT	GG	GG	INTERGENIC			
SNP_79925_A_484839	NW_004516049.1	scaffold626	484839	TT	AA	AA	INTERGENIC			
SNP_79926_A_484851	NW_004516049.1	scaffold626	484851	CC	AA	AA	INTERGENIC			
SNP_79927_A_484915	NW_004516049.1	scaffold626	484915	CC	TT	TT	INTERGENIC			
SNP_79928_A_484923	NW_004516049.1	scaffold626	484923	CC	AA	AA	INTERGENIC			
SNP_79929_A_484945	NW_004516049.1	scaffold626	484945	GG	TT	TT	INTERGENIC			
SNP_79930_A_484951	NW_004516049.1	scaffold626	484951	GG	TT	TT	INTERGENIC			
SNP_79931_A_485063	NW_004516049.1	scaffold626	485063	CC	AA	AA	INTERGENIC			
SNP_79932_A_485183	NW_004516049.1	scaffold626	485183	GG	TT	TT	INTERGENIC			
SNP_79933_A_485256	NW_004516049.1	scaffold626	485256	CC	TT	TT	INTERGENIC			
SNP_79934_A_485496	NW_004516049.1	scaffold626	485496	GG	TT	TT	INTERGENIC			
SNP_79935_A_486056	NW_004516049.1	scaffold626	486056	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79937_A_487625	NW_004516049.1	scaffold626	487625	CC	AA	AA	INTERGENIC			
SNP_79938_A_487804	NW_004516049.1	scaffold626	487804	TT	CC	CC	INTERGENIC			
SNP_79939_A_488496	NW_004516049.1	scaffold626	488496	TT	CC	CC	INTERGENIC			
SNP_79940_A_488507	NW_004516049.1	scaffold626	488507	AA	TT	TT	INTERGENIC			
SNP_79941_A_488893	NW_004516049.1	scaffold626	488893	AA	TT	TT	INTERGENIC			
SNP_79942_A_490135	NW_004516049.1	scaffold626	490135	TT	AA	AA	INTERGENIC			
SNP_79943_A_503109	NW_004516049.1	scaffold626	503109	TT	GG	GG	INTERGENIC			
SNP_79944_A_504533	NW_004516049.1	scaffold626	504533	GG	AA	AA	INTERGENIC			
SNP_79946_A_504936	NW_004516049.1	scaffold626	504936	AA	GG	GG	INTERGENIC			
SNP_79947_A_505160	NW_004516049.1	scaffold626	505160	AA	TT	TT	INTERGENIC			
SNP_79948_A_505273	NW_004516049.1	scaffold626	505273	GG	CC	CC	INTERGENIC			
SNP_79949_A_505334	NW_004516049.1	scaffold626	505334	AA	GG	GG	INTERGENIC			
SNP_79950_A_505404	NW_004516049.1	scaffold626	505404	GG	TT	TT	INTERGENIC			
SNP_79951_A_505694	NW_004516049.1	scaffold626	505694	CC	TT	TT	INTERGENIC			
SNP_79952_A_506358	NW_004516049.1	scaffold626	506358	GG	TT	TT	INTERGENIC			
SNP_79953_A_507326	NW_004516049.1	scaffold626	507326	AA	TT	TT	INTERGENIC			
SNP_79954_A_507403	NW_004516049.1	scaffold626	507403	TT	CC	CC	INTERGENIC			
SNP_79955_A_507468	NW_004516049.1	scaffold626	507468	CC	TT	TT	INTERGENIC			
SNP_79956_A_509850	NW_004516049.1	scaffold626	509850	TT	GG	GG	INTERGENIC			
SNP_79957_A_509952	NW_004516049.1	scaffold626	509952	GG	AA	AA	INTERGENIC			
SNP_79958_A_510117	NW_004516049.1	scaffold626	510117	GG	AA	AA	INTERGENIC			
SNP_79959_A_510164	NW_004516049.1	scaffold626	510164	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79960_A_510280	NW_004516049.1	scaffold626	510280	TT	CC	CC	INTERGENIC			
SNP_79961_A_510476	NW_004516049.1	scaffold626	510476	GG	AA	AA	INTERGENIC			
SNP_79963_A_512674	NW_004516049.1	scaffold626	512674	CC	TT	TT	INTERGENIC			
SNP_79965_A_515605	NW_004516049.1	scaffold626	515605	AA	CC	CC	INTERGENIC			
SNP_79966_A_515662	NW_004516049.1	scaffold626	515662	TT	CC	CC	INTERGENIC			
SNP_79967_A_515666	NW_004516049.1	scaffold626	515666	AA	GG	GG	INTERGENIC			
SNP_79968_A_516219	NW_004516049.1	scaffold626	516219	GG	TT	TT	INTERGENIC			
SNP_79969_A_517125	NW_004516049.1	scaffold626	517125	GG	AA	AA	INTERGENIC			
SNP_79970_A_517291	NW_004516049.1	scaffold626	517291	AA	GG	GG	INTERGENIC			
SNP_79971_A_517406	NW_004516049.1	scaffold626	517406	GG	AA	AA	INTERGENIC			
SNP_79972_A_519189	NW_004516049.1	scaffold626	519189	CC	AA	AA	INTERGENIC			
SNP_79973_A_519221	NW_004516049.1	scaffold626	519221	AA	CC	CC	INTERGENIC			
SNP_79974_A_519227	NW_004516049.1	scaffold626	519227	CC	GG	GG	INTERGENIC			
SNP_79975_A_519347	NW_004516049.1	scaffold626	519347	GG	TT	TT	INTERGENIC			
SNP_79976_A_519351	NW_004516049.1	scaffold626	519351	CC	GG	GG	INTERGENIC			
SNP_79977_A_519409	NW_004516049.1	scaffold626	519409	GG	TT	TT	INTERGENIC			
SNP_79978_A_519428	NW_004516049.1	scaffold626	519428	TT	CC	CC	INTERGENIC			
SNP_79979_A_519529	NW_004516049.1	scaffold626	519529	CC	GG	GG	INTERGENIC			
SNP_79980_A_519541	NW_004516049.1	scaffold626	519541	AA	CC	CC	INTERGENIC			
SNP_79981_A_519574	NW_004516049.1	scaffold626	519574	AA	CC	CC	INTERGENIC			
SNP_79982_A_519603	NW_004516049.1	scaffold626	519603	TT	AA	AA	INTERGENIC			
SNP_79983_A_520284	NW_004516049.1	scaffold626	520284	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_79984_A_520321	NW_004516049.1	scaffold626	520321	TT	AA	AA	INTERGENIC			
SNP_79986_A_520696	NW_004516049.1	scaffold626	520696	TT	CC	CC	INTERGENIC			
SNP_79987_A_521180	NW_004516049.1	scaffold626	521180	GG	AA	AA	INTERGENIC			
SNP_79988_A_521632	NW_004516049.1	scaffold626	521632	GG	TT	TT	INTERGENIC			
SNP_79989_A_521923	NW_004516049.1	scaffold626	521923	GG	AA	AA	INTERGENIC			
SNP_79990_A_521935	NW_004516049.1	scaffold626	521935	GG	AA	AA	INTERGENIC			
SNP_79991_A_522349	NW_004516049.1	scaffold626	522349	GG	TT	TT	INTERGENIC			
SNP_79993_A_522445	NW_004516049.1	scaffold626	522445	GG	AA	AA	INTERGENIC			
SNP_79994_A_522797	NW_004516049.1	scaffold626	522797	AA	GG	GG	INTERGENIC			
SNP_79995_A_522798	NW_004516049.1	scaffold626	522798	GG	AA	AA	INTERGENIC			
SNP_79996_A_522832	NW_004516049.1	scaffold626	522832	AA	TT	TT	INTERGENIC			
SNP_79997_A_522834	NW_004516049.1	scaffold626	522834	GG	CC	CC	INTERGENIC			
SNP_79998_A_522970	NW_004516049.1	scaffold626	522970	TT	GG	GG	INTERGENIC			
SNP_79999_A_522994	NW_004516049.1	scaffold626	522994	TT	CC	CC	INTERGENIC			
SNP_80000_A_523098	NW_004516049.1	scaffold626	523098	TT	AA	AA	INTERGENIC			
SNP_80001_A_524134	NW_004516049.1	scaffold626	524134	TT	GG	GG	INTERGENIC			
SNP_80002_A_524202	NW_004516049.1	scaffold626	524202	CC	TT	TT	INTERGENIC			
SNP_80003_A_524231	NW_004516049.1	scaffold626	524231	TT	CC	CC	INTERGENIC			
SNP_80004_A_524239	NW_004516049.1	scaffold626	524239	AA	TT	TT	INTERGENIC			
SNP_80005_A_524287	NW_004516049.1	scaffold626	524287	AA	GG	GG	INTERGENIC			
SNP_80006_A_524312	NW_004516049.1	scaffold626	524312	CC	TT	TT	INTERGENIC			
SNP_80007_A_524347	NW_004516049.1	scaffold626	524347	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80008_A_524364	NW_004516049.1	scaffold626	524364	TT	CC	CC	INTERGENIC			
SNP_80009_A_524495	NW_004516049.1	scaffold626	524495	TT	CC	CC	INTERGENIC			
SNP_80010_A_524512	NW_004516049.1	scaffold626	524512	GG	AA	AA	INTERGENIC			
SNP_80011_A_524559	NW_004516049.1	scaffold626	524559	GG	TT	TT	INTERGENIC			
SNP_80013_A_525668	NW_004516049.1	scaffold626	525668	AA	TT	TT	INTERGENIC			
SNP_80014_A_525673	NW_004516049.1	scaffold626	525673	CC	TT	TT	INTERGENIC			
SNP_80015_A_525691	NW_004516049.1	scaffold626	525691	GG	AA	AA	INTERGENIC			
SNP_80016_A_525736	NW_004516049.1	scaffold626	525736	GG	TT	TT	INTERGENIC			
SNP_80017_A_525765	NW_004516049.1	scaffold626	525765	TT	CC	CC	INTERGENIC			
SNP_80018_A_525891	NW_004516049.1	scaffold626	525891	TT	GG	GG	INTERGENIC			
SNP_80019_A_525951	NW_004516049.1	scaffold626	525951	CC	AA	AA	INTERGENIC			
SNP_80020_A_525952	NW_004516049.1	scaffold626	525952	GG	TT	TT	INTERGENIC			
SNP_80021_A_525999	NW_004516049.1	scaffold626	525999	TT	GG	GG	INTERGENIC			
SNP_80022_A_526239	NW_004516049.1	scaffold626	526239	TT	GG	GG	INTERGENIC			
SNP_80023_A_526836	NW_004516049.1	scaffold626	526836	TT	CC	CC	INTERGENIC			
SNP_80024_A_526862	NW_004516049.1	scaffold626	526862	TT	AA	AA	INTERGENIC			
SNP_80025_A_526867	NW_004516049.1	scaffold626	526867	GG	AA	AA	INTERGENIC			
SNP_80026_A_526925	NW_004516049.1	scaffold626	526925	AA	TT	TT	INTERGENIC			
SNP_80027_A_526952	NW_004516049.1	scaffold626	526952	AA	TT	TT	INTERGENIC			
SNP_80028_A_527079	NW_004516049.1	scaffold626	527079	AA	GG	GG	INTERGENIC			
SNP_80029_A_527228	NW_004516049.1	scaffold626	527228	TT	GG	GG	INTERGENIC			
SNP_80030_A_527231	NW_004516049.1	scaffold626	527231	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80031_A_527236	NW_004516049.1	scaffold626	527236	AA	CC	CC	INTERGENIC			
SNP_80032_A_527238	NW_004516049.1	scaffold626	527238	AA	GG	GG	INTERGENIC			
SNP_80033_A_527320	NW_004516049.1	scaffold626	527320	AA	CC	CC	INTERGENIC			
SNP_80034_A_527363	NW_004516049.1	scaffold626	527363	CC	TT	TT	INTERGENIC			
SNP_80035_A_527365	NW_004516049.1	scaffold626	527365	TT	CC	CC	INTERGENIC			
SNP_80036_A_529956	NW_004516049.1	scaffold626	529956	TT	GG	GG	INTERGENIC			
SNP_80037_A_530127	NW_004516049.1	scaffold626	530127	AA	GG	GG	INTERGENIC			
SNP_80038_A_531150	NW_004516049.1	scaffold626	531150	AA	GG	GG	INTERGENIC			
SNP_80039_A_531195	NW_004516049.1	scaffold626	531195	CC	TT	TT	INTERGENIC			
SNP_80040_A_531200	NW_004516049.1	scaffold626	531200	CC	AA	AA	INTERGENIC			
SNP_80041_A_531319	NW_004516049.1	scaffold626	531319	CC	AA	AA	INTERGENIC			
SNP_80042_A_531329	NW_004516049.1	scaffold626	531329	AA	GG	GG	INTERGENIC			
SNP_80043_A_531421	NW_004516049.1	scaffold626	531421	CC	TT	TT	INTERGENIC			
SNP_80044_A_531422	NW_004516049.1	scaffold626	531422	AA	GG	GG	INTERGENIC			
SNP_80045_A_532666	NW_004516049.1	scaffold626	532666	CC	TT	TT	INTERGENIC			
SNP_80046_A_533551	NW_004516049.1	scaffold626	533551	TT	AA	AA	INTERGENIC			
SNP_80047_A_533605	NW_004516049.1	scaffold626	533605	CC	GG	GG	INTERGENIC			
SNP_80048_A_542978	NW_004516049.1	scaffold626	542978	CC	TT	TT	INTERGENIC			
SNP_80049_A_542980	NW_004516049.1	scaffold626	542980	GG	CC	CC	INTERGENIC			
SNP_80050_A_543266	NW_004516049.1	scaffold626	543266	CC	GG	GG	INTERGENIC			
SNP_80051_A_544565	NW_004516049.1	scaffold626	544565	CC	GG	GG	INTERGENIC			
SNP_80052_A_545930	NW_004516049.1	scaffold626	545930	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80053_A_545995	NW_004516049.1	scaffold626	545995	AA	GG	GG	INTERGENIC			
SNP_80054_A_546207	NW_004516049.1	scaffold626	546207	AA	TT	TT	INTERGENIC			
SNP_80055_A_546576	NW_004516049.1	scaffold626	546576	CC	AA	AA	INTERGENIC			
SNP_80056_A_549736	NW_004516049.1	scaffold626	549736	AA	GG	GG	INTERGENIC			
SNP_80057_A_549855	NW_004516049.1	scaffold626	549855	CC	TT	TT	INTERGENIC			
SNP_80058_A_549996	NW_004516049.1	scaffold626	549996	AA	GG	GG	INTERGENIC			
SNP_80059_A_550000	NW_004516049.1	scaffold626	550000	AA	GG	GG	INTERGENIC			
SNP_80060_A_550076	NW_004516049.1	scaffold626	550076	AA	GG	GG	INTERGENIC			
SNP_80061_A_550209	NW_004516049.1	scaffold626	550209	TT	GG	GG	INTERGENIC			
SNP_80062_A_550217	NW_004516049.1	scaffold626	550217	CC	TT	TT	INTERGENIC			
SNP_80063_A_550269	NW_004516049.1	scaffold626	550269	GG	TT	TT	INTERGENIC			
SNP_80064_A_550338	NW_004516049.1	scaffold626	550338	TT	GG	GG	INTERGENIC			
SNP_80065_A_551601	NW_004516049.1	scaffold626	551601	TT	CC	CC	INTERGENIC			
SNP_80066_A_551912	NW_004516049.1	scaffold626	551912	TT	CC	CC	INTERGENIC			
SNP_80067_A_551983	NW_004516049.1	scaffold626	551983	TT	CC	CC	INTERGENIC			
SNP_80068_A_552001	NW_004516049.1	scaffold626	552001	AA	CC	CC	INTERGENIC			
SNP_80069_A_552029	NW_004516049.1	scaffold626	552029	TT	CC	CC	INTERGENIC			
SNP_80070_A_552064	NW_004516049.1	scaffold626	552064	AA	GG	GG	INTERGENIC			
SNP_80071_A_552209	NW_004516049.1	scaffold626	552209	GG	CC	CC	INTERGENIC			
SNP_80072_A_552275	NW_004516049.1	scaffold626	552275	TT	CC	CC	INTERGENIC			
SNP_80073_A_552316	NW_004516049.1	scaffold626	552316	GG	TT	TT	INTERGENIC			
SNP_80074_A_552361	NW_004516049.1	scaffold626	552361	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80075_A_552537	NW_004516049.1	scaffold626	552537	CC	GG	GG	INTERGENIC			
SNP_80076_A_552547	NW_004516049.1	scaffold626	552547	GG	CC	CC	INTERGENIC			
SNP_80077_A_552572	NW_004516049.1	scaffold626	552572	AA	CC	CC	INTERGENIC			
SNP_80078_A_552578	NW_004516049.1	scaffold626	552578	TT	GG	GG	INTERGENIC			
SNP_80079_A_553158	NW_004516049.1	scaffold626	553158	GG	CC	CC	INTERGENIC			
SNP_80081_A_553311	NW_004516049.1	scaffold626	553311	TT	CC	CC	INTERGENIC			
SNP_80082_A_553673	NW_004516049.1	scaffold626	553673	AA	GG	GG	INTERGENIC			
SNP_80083_A_554561	NW_004516049.1	scaffold626	554561	CC	TT	TT	INTERGENIC			
SNP_80084_A_554661	NW_004516049.1	scaffold626	554661	GG	AA	AA	INTERGENIC			
SNP_80086_A_554748	NW_004516049.1	scaffold626	554748	TT	CC	CC	INTERGENIC			
SNP_80087_A_554867	NW_004516049.1	scaffold626	554867	CC	TT	TT	INTERGENIC			
SNP_80088_A_555043	NW_004516049.1	scaffold626	555043	GG	AA	AA	INTERGENIC			
SNP_80089_A_555108	NW_004516049.1	scaffold626	555108	TT	GG	GG	INTERGENIC			
SNP_80090_A_556521	NW_004516049.1	scaffold626	556521	AA	GG	GG	INTERGENIC			
SNP_80091_A_558827	NW_004516049.1	scaffold626	558827	GG	AA	AA	INTERGENIC			
SNP_80092_A_558920	NW_004516049.1	scaffold626	558920	TT	AA	AA	INTERGENIC			
SNP_80093_A_559159	NW_004516049.1	scaffold626	559159	TT	AA	AA	INTERGENIC			
SNP_80094_A_559167	NW_004516049.1	scaffold626	559167	TT	CC	CC	INTERGENIC			
SNP_80095_A_559222	NW_004516049.1	scaffold626	559222	TT	GG	GG	INTERGENIC			
SNP_80096_A_559315	NW_004516049.1	scaffold626	559315	TT	GG	GG	INTERGENIC			
SNP_80097_A_559566	NW_004516049.1	scaffold626	559566	CC	TT	TT	INTERGENIC			
SNP_80098_A_561295	NW_004516049.1	scaffold626	561295	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80099_A_561348	NW_004516049.1	scaffold626	561348	TT	AA	AA	INTERGENIC			
SNP_80100_A_561371	NW_004516049.1	scaffold626	561371	AA	GG	GG	INTERGENIC			
SNP_80101_A_561382	NW_004516049.1	scaffold626	561382	AA	TT	TT	INTERGENIC			
SNP_80102_A_561474	NW_004516049.1	scaffold626	561474	GG	CC	CC	INTERGENIC			
SNP_80103_A_561537	NW_004516049.1	scaffold626	561537	CC	TT	TT	INTERGENIC			
SNP_80104_A_561584	NW_004516049.1	scaffold626	561584	TT	CC	CC	INTERGENIC			
SNP_80105_A_561747	NW_004516049.1	scaffold626	561747	GG	TT	TT	INTERGENIC			
SNP_80106_A_561794	NW_004516049.1	scaffold626	561794	CC	TT	TT	INTERGENIC			
SNP_80107_A_561847	NW_004516049.1	scaffold626	561847	TT	CC	CC	INTERGENIC			
SNP_80108_A_561868	NW_004516049.1	scaffold626	561868	GG	AA	AA	INTERGENIC			
SNP_80109_A_561906	NW_004516049.1	scaffold626	561906	TT	CC	CC	INTERGENIC			
SNP_80110_A_561934	NW_004516049.1	scaffold626	561934	CC	GG	GG	INTERGENIC			
SNP_80111_A_562035	NW_004516049.1	scaffold626	562035	TT	GG	GG	INTERGENIC			
SNP_80112_A_562159	NW_004516049.1	scaffold626	562159	AA	GG	GG	INTERGENIC			
SNP_80113_A_568646	NW_004516049.1	scaffold626	568646	AA	GG	GG	INTERGENIC			
SNP_80114_A_571653	NW_004516049.1	scaffold626	571653	TT	CC	CC	INTERGENIC			
SNP_80115_A_571980	NW_004516049.1	scaffold626	571980	AA	GG	GG	INTERGENIC			
SNP_80116_A_572307	NW_004516049.1	scaffold626	572307	TT	GG	GG	INTERGENIC			
SNP_80117_A_572498	NW_004516049.1	scaffold626	572498	CC	AA	AA	INTERGENIC			
SNP_80118_A_573058	NW_004516049.1	scaffold626	573058	TT	CC	CC	INTERGENIC			
SNP_80119_A_573348	NW_004516049.1	scaffold626	573348	GG	CC	CC	INTERGENIC			
SNP_80120_A_573357	NW_004516049.1	scaffold626	573357	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80121_A_575002	NW_004516049.1	scaffold626	575002	GG	TT	TT	INTERGENIC			
SNP_80122_A_576218	NW_004516049.1	scaffold626	576218	TT	GG	GG	INTERGENIC			
SNP_80123_A_576441	NW_004516049.1	scaffold626	576441	GG	AA	AA	INTERGENIC			
SNP_80124_A_576538	NW_004516049.1	scaffold626	576538	CC	GG	GG	INTERGENIC			
SNP_80125_A_580385	NW_004516049.1	scaffold626	580385	GG	AA	AA	INTERGENIC			
SNP_80126_A_580410	NW_004516049.1	scaffold626	580410	AA	GG	GG	INTERGENIC			
SNP_80127_A_580995	NW_004516049.1	scaffold626	580995	CC	TT	TT	INTERGENIC			
SNP_80128_A_581811	NW_004516049.1	scaffold626	581811	CC	TT	TT	INTERGENIC			
SNP_80129_A_581835	NW_004516049.1	scaffold626	581835	GG	AA	AA	INTERGENIC			
SNP_80130_A_589019	NW_004516049.1	scaffold626	589019	TT	CC	CC	INTERGENIC			
SNP_80131_A_589763	NW_004516049.1	scaffold626	589763	TT	AA	AA	INTERGENIC			
SNP_80132_A_590089	NW_004516049.1	scaffold626	590089	TT	AA	AA	INTERGENIC			
SNP_80133_A_590445	NW_004516049.1	scaffold626	590445	CC	TT	TT	INTERGENIC			
SNP_80134_A_590448	NW_004516049.1	scaffold626	590448	AA	GG	GG	INTERGENIC			
SNP_80135_A_590917	NW_004516049.1	scaffold626	590917	TT	CC	CC	INTERGENIC			
SNP_80136_A_593306	NW_004516049.1	scaffold626	593306	TT	AA	AA	INTERGENIC			
SNP_80137_A_593541	NW_004516049.1	scaffold626	593541	CC	TT	TT	INTERGENIC			
SNP_80138_A_605816	NW_004516049.1	scaffold626	605816	AA	GG	GG	INTERGENIC			
SNP_80139_A_610475	NW_004516049.1	scaffold626	610475	TT	GG	GG	INTERGENIC			
SNP_80140_A_627409	NW_004516049.1	scaffold626	627409	GG	AA	AA	INTERGENIC			
SNP_80141_A_630895	NW_004516049.1	scaffold626	630895	AA	TT	TT	INTERGENIC			
SNP_80142_A_631288	NW_004516049.1	scaffold626	631288	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80143_A_631365	NW_004516049.1	scaffold626	631365	AA	TT	TT	INTERGENIC		
SNP_80145_A_634522	NW_004516049.1	scaffold626	634522	AA	CC	CC	INTERGENIC		
SNP_80146_A_634523	NW_004516049.1	scaffold626	634523	AA	CC	CC	INTERGENIC		
SNP_80148_A_3133	NW_004516050.1	scaffold627	3133	TT	AA	AA	INTERGENIC		
SNP_80149_A_43478	NW_004516050.1	scaffold627	43478	AA	GG	GG	INTERGENIC		
SNP_80150_A_43481	NW_004516050.1	scaffold627	43481	AA	GG	GG	INTERGENIC		
SNP_80151_A_45807	NW_004516050.1	scaffold627	45807	TT	CC	CC	INTRON	101504894	uncharacterized LOC101504894
SNP_80152_A_45812	NW_004516050.1	scaffold627	45812	GG	TT	TT	INTRON	101504894	uncharacterized LOC101504894
SNP_80153_A_60833	NW_004516050.1	scaffold627	60833	TT	CC	CC	INTERGENIC		
SNP_80154_A_60960	NW_004516050.1	scaffold627	60960	CC	AA	AA	INTERGENIC		
SNP_80155_A_60962	NW_004516050.1	scaffold627	60962	AA	CC	CC	INTERGENIC		
SNP_80156_A_61020	NW_004516050.1	scaffold627	61020	GG	AA	AA	INTERGENIC		
SNP_80157_A_61050	NW_004516050.1	scaffold627	61050	TT	CC	CC	INTERGENIC		
SNP_80158_A_61074	NW_004516050.1	scaffold627	61074	TT	CC	CC	INTERGENIC		
SNP_80159_A_61263	NW_004516050.1	scaffold627	61263	AA	GG	GG	INTERGENIC		
SNP_80160_A_64560	NW_004516050.1	scaffold627	64560	GG	AA	AA	INTERGENIC		
SNP_80161_A_66277	NW_004516050.1	scaffold627	66277	GG	TT	TT	INTERGENIC		
SNP_80162_A_66356	NW_004516050.1	scaffold627	66356	AA	GG	GG	INTERGENIC		
SNP_80163_A_92678	NW_004516050.1	scaffold627	92678	AA	GG	GG	INTERGENIC		
SNP_80164_A_92726	NW_004516050.1	scaffold627	92726	TT	AA	AA	INTERGENIC		
SNP_80165_A_92729	NW_004516050.1	scaffold627	92729	CC	AA	AA	INTERGENIC		
SNP_80166_A_5121	NW_004516051.1	scaffold629	5121	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80168_A_12648	NW_004516051.1	scaffold629	12648	TT	AA	AA	INTERGENIC			
SNP_80169_A_12657	NW_004516051.1	scaffold629	12657	TT	GG	GG	INTERGENIC			
SNP_80170_A_14576	NW_004516051.1	scaffold629	14576	TT	CC	CC	INTERGENIC			
SNP_80171_A_14944	NW_004516051.1	scaffold629	14944	AA	TT	TT	INTERGENIC			
SNP_80172_A_15007	NW_004516051.1	scaffold629	15007	TT	AA	AA	INTERGENIC			
SNP_80173_A_15303	NW_004516051.1	scaffold629	15303	TT	CC	CC	INTERGENIC			
SNP_80174_A_39727	NW_004516051.1	scaffold629	39727	TT	CC	CC	INTERGENIC			
SNP_80175_A_39997	NW_004516051.1	scaffold629	39997	AA	CC	CC	INTERGENIC			
SNP_80176_A_56764	NW_004516051.1	scaffold629	56764	TT	CC	CC	INTERGENIC			
SNP_80177_A_56914	NW_004516051.1	scaffold629	56914	AA	GG	GG	INTERGENIC			
SNP_80178_A_58340	NW_004516051.1	scaffold629	58340	TT	CC	CC	INTERGENIC			
SNP_80179_A_58373	NW_004516051.1	scaffold629	58373	AA	GG	GG	INTERGENIC			
SNP_80180_A_58376	NW_004516051.1	scaffold629	58376	AA	GG	GG	INTERGENIC			
SNP_80181_A_58394	NW_004516051.1	scaffold629	58394	AA	CC	CC	INTERGENIC			
SNP_80182_A_86071	NW_004516051.1	scaffold629	86071	AA	GG	GG	INTERGENIC			
SNP_80183_A_86079	NW_004516051.1	scaffold629	86079	TT	AA	AA	INTERGENIC			
SNP_80184_A_86091	NW_004516051.1	scaffold629	86091	TT	AA	AA	INTERGENIC			
SNP_80185_A_1024	NW_004516052.1	scaffold631	1024	CC	GG	GG	INTERGENIC			
SNP_80186_A_1378	NW_004516052.1	scaffold631	1378	CC	TT	TT	INTERGENIC			
SNP_80187_A_11969	NW_004516052.1	scaffold631	11969	CC	TT	TT	INTERGENIC			
SNP_80188_A_11986	NW_004516052.1	scaffold631	11986	AA	TT	TT	INTERGENIC			
SNP_80189_A_22416	NW_004516052.1	scaffold631	22416	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80190_A_22518	NW_004516052.1	scaffold631	22518	GG	TT	TT	INTERGENIC			
SNP_80191_A_22729	NW_004516052.1	scaffold631	22729	TT	GG	GG	INTERGENIC			
SNP_80192_A_22767	NW_004516052.1	scaffold631	22767	TT	CC	CC	INTERGENIC			
SNP_80193_A_47320	NW_004516052.1	scaffold631	47320	GG	AA	AA	INTERGENIC			
SNP_80194_A_52968	NW_004516052.1	scaffold631	52968	TT	CC	CC	INTERGENIC			
SNP_80195_A_53770	NW_004516052.1	scaffold631	53770	CC	AA	AA	INTERGENIC			
SNP_80196_A_58607	NW_004516052.1	scaffold631	58607	GG	CC	CC	INTERGENIC			
SNP_80197_A_67613	NW_004516052.1	scaffold631	67613	TT	AA	AA	INTERGENIC			
SNP_80198_A_67771	NW_004516052.1	scaffold631	67771	TT	CC	CC	INTERGENIC			
SNP_80199_A_67777	NW_004516052.1	scaffold631	67777	TT	AA	AA	INTERGENIC			
SNP_80200_A_67849	NW_004516052.1	scaffold631	67849	AA	TT	TT	INTERGENIC			
SNP_80201_A_67914	NW_004516052.1	scaffold631	67914	CC	TT	TT	INTERGENIC			
SNP_80202_A_67992	NW_004516052.1	scaffold631	67992	GG	TT	TT	INTERGENIC			
SNP_80203_A_68188	NW_004516052.1	scaffold631	68188	AA	TT	TT	INTERGENIC			
SNP_80204_A_68191	NW_004516052.1	scaffold631	68191	GG	TT	TT	INTERGENIC			
SNP_80205_A_68193	NW_004516052.1	scaffold631	68193	TT	CC	CC	INTERGENIC			
SNP_80206_A_68404	NW_004516052.1	scaffold631	68404	AA	TT	TT	INTERGENIC			
SNP_80207_A_68606	NW_004516052.1	scaffold631	68606	CC	TT	TT	INTERGENIC			
SNP_80208_A_68641	NW_004516052.1	scaffold631	68641	GG	AA	AA	INTERGENIC			
SNP_80209_A_68725	NW_004516052.1	scaffold631	68725	CC	TT	TT	INTERGENIC			
SNP_80210_A_69218	NW_004516052.1	scaffold631	69218	AA	TT	TT	INTERGENIC			
SNP_80211_A_69333	NW_004516052.1	scaffold631	69333	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80212_A_70574	NW_004516052.1	scaffold631	70574	TT	CC	CC	INTERGENIC			
SNP_80213_A_70886	NW_004516052.1	scaffold631	70886	GG	AA	AA	INTERGENIC			
SNP_80214_A_74265	NW_004516052.1	scaffold631	74265	TT	CC	CC	INTERGENIC			
SNP_80215_A_74473	NW_004516052.1	scaffold631	74473	GG	TT	TT	INTERGENIC			
SNP_80216_A_74479	NW_004516052.1	scaffold631	74479	TT	GG	GG	INTERGENIC			
SNP_80217_A_74719	NW_004516052.1	scaffold631	74719	AA	TT	TT	INTERGENIC			
SNP_80218_A_75022	NW_004516052.1	scaffold631	75022	AA	TT	TT	INTERGENIC			
SNP_80219_A_75261	NW_004516052.1	scaffold631	75261	GG	AA	AA	INTERGENIC			
SNP_80220_A_75381	NW_004516052.1	scaffold631	75381	AA	CC	CC	INTERGENIC			
SNP_80221_A_423	NW_004516053.1	scaffold632	423	GG	CC	CC	INTERGENIC			
SNP_80222_A_426	NW_004516053.1	scaffold632	426	CC	AA	AA	INTERGENIC			
SNP_80223_A_435	NW_004516053.1	scaffold632	435	AA	TT	TT	INTERGENIC			
SNP_80224_A_449	NW_004516053.1	scaffold632	449	GG	AA	AA	INTERGENIC			
SNP_80225_A_453	NW_004516053.1	scaffold632	453	AA	GG	GG	INTERGENIC			
SNP_80226_A_543	NW_004516053.1	scaffold632	543	TT	CC	CC	INTERGENIC			
SNP_80227_A_546	NW_004516053.1	scaffold632	546	GG	TT	TT	INTERGENIC			
SNP_80228_A_2830	NW_004516053.1	scaffold632	2830	TT	GG	GG	INTERGENIC			
SNP_80229_A_10131	NW_004516053.1	scaffold632	10131	AA	GG	GG	INTERGENIC			
SNP_80230_A_10140	NW_004516053.1	scaffold632	10140	GG	TT	TT	INTERGENIC			
SNP_80231_A_10411	NW_004516053.1	scaffold632	10411	CC	AA	AA	INTERGENIC			
SNP_80232_A_17819	NW_004516053.1	scaffold632	17819	AA	TT	TT	INTERGENIC			
SNP_80233_A_17837	NW_004516053.1	scaffold632	17837	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80234_A_17855	NW_004516053.1	scaffold632	17855	TT	AA	AA	INTERGENIC			
SNP_80235_A_17859	NW_004516053.1	scaffold632	17859	TT	CC	CC	INTERGENIC			
SNP_80236_A_17861	NW_004516053.1	scaffold632	17861	TT	CC	CC	INTERGENIC			
SNP_80237_A_18149	NW_004516053.1	scaffold632	18149	AA	GG	GG	INTERGENIC			
SNP_80238_A_371	NW_004516054.1	scaffold633	371	GG	AA	AA	INTERGENIC			
SNP_80239_A_448	NW_004516054.1	scaffold633	448	AA	GG	GG	INTERGENIC			
SNP_80240_A_711	NW_004516054.1	scaffold633	711	AA	TT	TT	INTERGENIC			
SNP_80241_A_9621	NW_004516057.1	scaffold637	9621	CC	TT	TT	INTERGENIC			
SNP_80242_A_9716	NW_004516057.1	scaffold637	9716	AA	CC	CC	INTERGENIC			
SNP_80243_A_9727	NW_004516057.1	scaffold637	9727	AA	GG	GG	INTERGENIC			
SNP_80244_A_9757	NW_004516057.1	scaffold637	9757	AA	GG	GG	INTERGENIC			
SNP_80245_A_22972	NW_004516057.1	scaffold637	22972	GG	TT	TT	INTERGENIC			
SNP_80246_A_29307	NW_004516057.1	scaffold637	29307	AA	GG	GG	INTERGENIC			
SNP_80247_A_65591	NW_004516057.1	scaffold637	65591	TT	AA	AA	INTERGENIC			
SNP_80249_A_123990	NW_004516057.1	scaffold637	123990	GG	AA	AA	INTERGENIC			
SNP_80250_A_124007	NW_004516057.1	scaffold637	124007	TT	GG	GG	INTERGENIC			
SNP_80251_A_124038	NW_004516057.1	scaffold637	124038	CC	AA	AA	INTERGENIC			
SNP_80252_A_124041	NW_004516057.1	scaffold637	124041	GG	AA	AA	INTERGENIC			
SNP_80253_A_124221	NW_004516057.1	scaffold637	124221	AA	CC	CC	INTERGENIC			
SNP_80254_A_124701	NW_004516057.1	scaffold637	124701	TT	AA	AA	INTERGENIC			
SNP_80255_A_128176	NW_004516057.1	scaffold637	128176	CC	TT	TT	INTERGENIC			
SNP_80256_A_162644	NW_004516057.1	scaffold637	162644	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80257_A_163116	NW_004516057.1	scaffold637	163116	TT	CC	CC	INTERGENIC			
SNP_80258_A_163129	NW_004516057.1	scaffold637	163129	CC	TT	TT	INTERGENIC			
SNP_80259_A_169935	NW_004516057.1	scaffold637	169935	AA	GG	GG	INTERGENIC			
SNP_80260_A_191857	NW_004516057.1	scaffold637	191857	TT	CC	CC	INTERGENIC			
SNP_80261_A_3597	NW_004516058.1	scaffold639	3597	AA	GG	GG	INTERGENIC			
SNP_80262_A_4040	NW_004516058.1	scaffold639	4040	GG	AA	AA	INTERGENIC			
SNP_80263_A_6694	NW_004516058.1	scaffold639	6694	AA	CC	CC	INTERGENIC			
SNP_80264_A_6832	NW_004516058.1	scaffold639	6832	CC	TT	TT	INTERGENIC			
SNP_80265_A_7013	NW_004516058.1	scaffold639	7013	GG	AA	AA	INTERGENIC			
SNP_80266_A_7138	NW_004516058.1	scaffold639	7138	GG	CC	CC	INTERGENIC			
SNP_80267_A_8677	NW_004516058.1	scaffold639	8677	TT	CC	CC	INTERGENIC			
SNP_80268_A_9001	NW_004516058.1	scaffold639	9001	CC	TT	TT	INTERGENIC			
SNP_80269_A_9083	NW_004516058.1	scaffold639	9083	CC	AA	AA	INTERGENIC			
SNP_80270_A_9203	NW_004516058.1	scaffold639	9203	TT	AA	AA	INTERGENIC			
SNP_80272_A_11928	NW_004516058.1	scaffold639	11928	GG	TT	TT	INTERGENIC			
SNP_80273_A_11930	NW_004516058.1	scaffold639	11930	AA	CC	CC	INTERGENIC			
SNP_80274_A_13390	NW_004516058.1	scaffold639	13390	AA	CC	CC	INTERGENIC			
SNP_80275_A_18614	NW_004516058.1	scaffold639	18614	TT	AA	AA	INTERGENIC			
SNP_80276_A_18694	NW_004516058.1	scaffold639	18694	TT	CC	CC	INTERGENIC			
SNP_80277_A_18698	NW_004516058.1	scaffold639	18698	TT	GG	GG	INTERGENIC			
SNP_80278_A_18908	NW_004516058.1	scaffold639	18908	AA	CC	CC	INTERGENIC			
SNP_80279_A_18910	NW_004516058.1	scaffold639	18910	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80280_A_18911	NW_004516058.1	scaffold639	18911	TT	GG	GG	INTERGENIC			
SNP_80281_A_19066	NW_004516058.1	scaffold639	19066	TT	CC	CC	INTERGENIC			
SNP_80283_A_26129	NW_004516058.1	scaffold639	26129	TT	GG	GG	INTERGENIC			
SNP_80284_A_30067	NW_004516058.1	scaffold639	30067	CC	TT	TT	INTERGENIC			
SNP_80285_A_33159	NW_004516058.1	scaffold639	33159	AA	TT	TT	INTERGENIC			
SNP_80286_A_33195	NW_004516058.1	scaffold639	33195	TT	GG	GG	INTERGENIC			
SNP_80287_A_34244	NW_004516058.1	scaffold639	34244	AA	TT	TT	INTERGENIC			
SNP_80288_A_34264	NW_004516058.1	scaffold639	34264	TT	CC	CC	INTERGENIC			
SNP_80289_A_35482	NW_004516058.1	scaffold639	35482	CC	TT	TT	INTERGENIC			
SNP_80290_A_45749	NW_004516058.1	scaffold639	45749	GG	AA	AA	INTERGENIC			
SNP_80291_A_49038	NW_004516058.1	scaffold639	49038	CC	TT	TT	INTERGENIC			
SNP_80292_A_69808	NW_004516058.1	scaffold639	69808	GG	AA	AA	INTERGENIC			
SNP_80293_A_69817	NW_004516058.1	scaffold639	69817	AA	GG	GG	INTERGENIC			
SNP_80294_A_69833	NW_004516058.1	scaffold639	69833	GG	AA	AA	INTERGENIC			
SNP_80295_A_70458	NW_004516058.1	scaffold639	70458	AA	TT	TT	INTERGENIC			
SNP_80296_A_71970	NW_004516058.1	scaffold639	71970	GG	AA	AA	INTERGENIC			
SNP_80297_A_73487	NW_004516058.1	scaffold639	73487	AA	CC	CC	INTERGENIC			
SNP_80298_A_92121	NW_004516058.1	scaffold639	92121	GG	AA	AA	INTERGENIC			
SNP_80299_A_92143	NW_004516058.1	scaffold639	92143	TT	CC	CC	INTERGENIC			
SNP_80300_A_92453	NW_004516058.1	scaffold639	92453	TT	CC	CC	INTERGENIC			
SNP_80301_A_92473	NW_004516058.1	scaffold639	92473	AA	CC	CC	INTERGENIC			
SNP_80302_A_99982	NW_004516058.1	scaffold639	99982	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80303_A_102581	NW_004516058.1	scaffold639	102581	GG	AA	AA	INTERGENIC			
SNP_80304_A_102604	NW_004516058.1	scaffold639	102604	TT	CC	CC	INTERGENIC			
SNP_80305_A_102613	NW_004516058.1	scaffold639	102613	GG	AA	AA	INTERGENIC			
SNP_80306_A_102631	NW_004516058.1	scaffold639	102631	TT	AA	AA	INTERGENIC			
SNP_80307_A_102651	NW_004516058.1	scaffold639	102651	GG	TT	TT	INTERGENIC			
SNP_80308_A_102672	NW_004516058.1	scaffold639	102672	AA	CC	CC	INTERGENIC			
SNP_80309_A_102675	NW_004516058.1	scaffold639	102675	AA	GG	GG	INTERGENIC			
SNP_80310_A_102685	NW_004516058.1	scaffold639	102685	GG	AA	AA	INTERGENIC			
SNP_80312_A_104990	NW_004516058.1	scaffold639	104990	GG	CC	CC	INTERGENIC			
SNP_80313_A_113576	NW_004516058.1	scaffold639	113576	AA	GG	GG	INTERGENIC			
SNP_80314_A_113773	NW_004516058.1	scaffold639	113773	GG	AA	AA	INTERGENIC			
SNP_80315_A_113937	NW_004516058.1	scaffold639	113937	GG	AA	AA	INTERGENIC			
SNP_80316_A_113949	NW_004516058.1	scaffold639	113949	CC	TT	TT	INTERGENIC			
SNP_80317_A_114341	NW_004516058.1	scaffold639	114341	AA	CC	CC	INTERGENIC			
SNP_80318_A_114346	NW_004516058.1	scaffold639	114346	GG	TT	TT	INTERGENIC			
SNP_80319_A_114430	NW_004516058.1	scaffold639	114430	GG	TT	TT	INTERGENIC			
SNP_80320_A_114506	NW_004516058.1	scaffold639	114506	GG	AA	AA	INTERGENIC			
SNP_80321_A_114518	NW_004516058.1	scaffold639	114518	AA	TT	TT	INTERGENIC			
SNP_80322_A_119953	NW_004516058.1	scaffold639	119953	CC	TT	TT	INTERGENIC			
SNP_80323_A_119961	NW_004516058.1	scaffold639	119961	GG	AA	AA	INTERGENIC			
SNP_80324_A_119967	NW_004516058.1	scaffold639	119967	AA	GG	GG	INTERGENIC			
SNP_80325_A_120038	NW_004516058.1	scaffold639	120038	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80326_A_120191	NW_004516058.1	scaffold639	120191	AA	GG	GG	INTERGENIC			
SNP_80327_A_163169	NW_004516058.1	scaffold639	163169	GG	TT	TT	INTERGENIC			
SNP_80328_A_172448	NW_004516058.1	scaffold639	172448	CC	AA	AA	INTERGENIC			
SNP_80329_A_172790	NW_004516058.1	scaffold639	172790	AA	CC	CC	INTERGENIC			
SNP_80330_A_172871	NW_004516058.1	scaffold639	172871	GG	TT	TT	INTERGENIC			
SNP_80331_A_172940	NW_004516058.1	scaffold639	172940	CC	TT	TT	INTERGENIC			
SNP_80332_A_172944	NW_004516058.1	scaffold639	172944	TT	CC	CC	INTERGENIC			
SNP_80334_A_172958	NW_004516058.1	scaffold639	172958	GG	AA	AA	INTERGENIC			
SNP_80335_A_173112	NW_004516058.1	scaffold639	173112	GG	AA	AA	INTERGENIC			
SNP_80336_A_173306	NW_004516058.1	scaffold639	173306	AA	TT	TT	INTERGENIC			
SNP_80337_A_173341	NW_004516058.1	scaffold639	173341	TT	CC	CC	INTERGENIC			
SNP_80338_A_173389	NW_004516058.1	scaffold639	173389	CC	TT	TT	INTERGENIC			
SNP_80339_A_182220	NW_004516058.1	scaffold639	182220	AA	TT	TT	INTERGENIC			
SNP_80340_A_183114	NW_004516058.1	scaffold639	183114	CC	AA	AA	INTERGENIC			
SNP_80341_A_183320	NW_004516058.1	scaffold639	183320	AA	GG	GG	INTERGENIC			
SNP_80342_A_183335	NW_004516058.1	scaffold639	183335	TT	CC	CC	INTERGENIC			
SNP_80343_A_184318	NW_004516058.1	scaffold639	184318	TT	GG	GG	INTERGENIC			
SNP_80344_A_3364	NW_004516059.1	scaffold641	3364	GG	TT	TT	INTERGENIC			
SNP_80345_A_8153	NW_004516059.1	scaffold641	8153	AA	GG	GG	INTERGENIC			
SNP_80346_A_8171	NW_004516059.1	scaffold641	8171	AA	TT	TT	INTERGENIC			
SNP_80347_A_9413	NW_004516059.1	scaffold641	9413	AA	TT	TT	INTERGENIC			
SNP_80348_A_3186	NW_004516060.1	scaffold642	3186	GG	CC	CC	DRR	101490144	uncharacterized LOC101490144	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80349_A_35582	NW_004516060.1	scaffold642	35582	CC	AA	AA	INTERGENIC		
SNP_80351_A_62496	NW_004516060.1	scaffold642	62496	CC	AA	AA	INTERGENIC		
SNP_80352_A_62804	NW_004516060.1	scaffold642	62804	GG	CC	CC	INTERGENIC		
SNP_80355_A_86953	NW_004516060.1	scaffold642	86953	GG	TT	TT	DRR	101490468	uncharacterized LOC101490468
SNP_80356_A_147894	NW_004516060.1	scaffold642	147894	AA	GG	GG	URR	101509816	Unknown function
SNP_80357_A_154140	NW_004516060.1	scaffold642	154140	AA	CC	CC	INTERGENIC		
SNP_80358_A_154158	NW_004516060.1	scaffold642	154158	TT	CC	CC	INTERGENIC		
SNP_80359_A_169795	NW_004516060.1	scaffold642	169795	GG	AA	AA	INTERGENIC		
SNP_80361_A_178970	NW_004516060.1	scaffold642	178970	GG	TT	TT	DRR	101491118	uncharacterized LOC101491118
SNP_80362_A_178971	NW_004516060.1	scaffold642	178971	CC	TT	TT	DRR	101491118	uncharacterized LOC101491118
SNP_80363_A_179018	NW_004516060.1	scaffold642	179018	AA	GG	GG	DRR	101491118	uncharacterized LOC101491118
SNP_80364_A_179278	NW_004516060.1	scaffold642	179278	CC	GG	GG	DRR	101491118	uncharacterized LOC101491118
SNP_80365_A_179309	NW_004516060.1	scaffold642	179309	GG	AA	AA	DRR	101491118	uncharacterized LOC101491118
SNP_80366_A_179314	NW_004516060.1	scaffold642	179314	AA	TT	TT	DRR	101491118	uncharacterized LOC101491118
SNP_80367_A_181964	NW_004516060.1	scaffold642	181964	TT	GG	GG	SYNONYMOUS_CODING	101491118	uncharacterized LOC101491118
SNP_80368_A_187244	NW_004516060.1	scaffold642	187244	GG	TT	TT	INTRON	101491118	uncharacterized LOC101491118
SNP_80369_A_195398	NW_004516060.1	scaffold642	195398	TT	GG	GG	URR	101491118	uncharacterized LOC101491118
SNP_80370_A_205242	NW_004516060.1	scaffold642	205242	GG	TT	TT	INTERGENIC		
SNP_80371_A_205307	NW_004516060.1	scaffold642	205307	AA	TT	TT	INTERGENIC		
SNP_80372_A_222711	NW_004516060.1	scaffold642	222711	TT	CC	CC	INTERGENIC		
SNP_80373_A_283887	NW_004516060.1	scaffold642	283887	GG	AA	AA	INTERGENIC		
SNP_80375_A_327102	NW_004516060.1	scaffold642	327102	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80376_A_331500	NW_004516060.1	scaffold642	331500	CC	AA	AA	INTERGENIC			
SNP_80377_A_334143	NW_004516060.1	scaffold642	334143	CC	AA	AA	INTERGENIC			
SNP_80378_A_334160	NW_004516060.1	scaffold642	334160	TT	AA	AA	INTERGENIC			
SNP_80379_A_334166	NW_004516060.1	scaffold642	334166	TT	AA	AA	INTERGENIC			
SNP_80380_A_334208	NW_004516060.1	scaffold642	334208	GG	AA	AA	INTERGENIC			
SNP_80381_A_334500	NW_004516060.1	scaffold642	334500	AA	GG	GG	INTERGENIC			
SNP_80382_A_334606	NW_004516060.1	scaffold642	334606	GG	AA	AA	INTERGENIC			
SNP_80383_A_337459	NW_004516060.1	scaffold642	337459	AA	GG	GG	INTERGENIC			
SNP_80384_A_337907	NW_004516060.1	scaffold642	337907	GG	TT	TT	INTERGENIC			
SNP_80385_A_338478	NW_004516060.1	scaffold642	338478	AA	GG	GG	INTERGENIC			
SNP_80386_A_352133	NW_004516060.1	scaffold642	352133	CC	GG	GG	INTERGENIC			
SNP_80387_A_363253	NW_004516060.1	scaffold642	363253	TT	CC	CC	INTERGENIC			
SNP_80388_A_363279	NW_004516060.1	scaffold642	363279	AA	GG	GG	INTERGENIC			
SNP_80389_A_363310	NW_004516060.1	scaffold642	363310	CC	AA	AA	INTERGENIC			
SNP_80390_A_363312	NW_004516060.1	scaffold642	363312	AA	GG	GG	INTERGENIC			
SNP_80391_A_372682	NW_004516060.1	scaffold642	372682	CC	AA	AA	INTERGENIC			
SNP_80392_A_378557	NW_004516060.1	scaffold642	378557	AA	TT	TT	INTRON	101512620	uncharacterized LOC101512620	
SNP_80393_A_402795	NW_004516060.1	scaffold642	402795	CC	TT	TT	INTERGENIC			
SNP_80395_A_432642	NW_004516060.1	scaffold642	432642	AA	GG	GG	DRR	101513254	GDSL esterase/lipase At5g45910-like	
SNP_80396_A_432722	NW_004516060.1	scaffold642	432722	CC	TT	TT	NON_SYNONYMOUS_CODING	101513254	GDSL esterase/lipase At5g45910-like	
SNP_80397_A_432916	NW_004516060.1	scaffold642	432916	CC	TT	TT	STOP_GAINED	101513254	GDSL esterase/lipase At5g45910-like	
SNP_80398_A_436165	NW_004516060.1	scaffold642	436165	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80400_A_502809	NW_004516060.1	scaffold642	502809	AA	TT	TT	INTERGENIC			
SNP_80401_A_507832	NW_004516060.1	scaffold642	507832	AA	TT	TT	INTERGENIC			
SNP_80402_A_533725	NW_004516060.1	scaffold642	533725	AA	GG	GG	INTERGENIC			
SNP_80403_A_640693	NW_004516060.1	scaffold642	640693	GG	AA	AA	INTERGENIC			
SNP_80404_A_640715	NW_004516060.1	scaffold642	640715	CC	TT	TT	INTERGENIC			
SNP_80405_A_640917	NW_004516060.1	scaffold642	640917	AA	GG	GG	INTERGENIC			
SNP_80406_A_645870	NW_004516060.1	scaffold642	645870	TT	GG	GG	INTERGENIC			
SNP_80407_A_677924	NW_004516060.1	scaffold642	677924	TT	CC	CC	INTERGENIC			
SNP_80408_A_686183	NW_004516060.1	scaffold642	686183	GG	AA	AA	INTERGENIC			
SNP_80409_A_695586	NW_004516060.1	scaffold642	695586	CC	TT	TT	URR	101494663	Unknown function	
SNP_80410_A_703391	NW_004516060.1	scaffold642	703391	CC	TT	TT	INTERGENIC			
SNP_80411_A_31174	NW_004516061.1	scaffold643	31174	GG	AA	AA	INTERGENIC			
SNP_80412_A_47598	NW_004516061.1	scaffold643	47598	GG	AA	AA	INTERGENIC			
SNP_80413_A_56524	NW_004516061.1	scaffold643	56524	GG	AA	AA	INTERGENIC			
SNP_80414_A_61616	NW_004516061.1	scaffold643	61616	CC	TT	TT	INTERGENIC			
SNP_80415_A_69101	NW_004516061.1	scaffold643	69101	TT	CC	CC	INTERGENIC			
SNP_80416_A_71169	NW_004516061.1	scaffold643	71169	GG	AA	AA	INTERGENIC			
SNP_80417_A_71182	NW_004516061.1	scaffold643	71182	CC	TT	TT	INTERGENIC			
SNP_80418_A_71258	NW_004516061.1	scaffold643	71258	GG	AA	AA	INTERGENIC			
SNP_80419_A_71269	NW_004516061.1	scaffold643	71269	TT	CC	CC	INTERGENIC			
SNP_80420_A_71308	NW_004516061.1	scaffold643	71308	TT	CC	CC	INTERGENIC			
SNP_80421_A_71315	NW_004516061.1	scaffold643	71315	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80422_A_71349	NW_004516061.1	scaffold643	71349	AA	GG	GG	INTERGENIC			
SNP_80423_A_71374	NW_004516061.1	scaffold643	71374	GG	AA	AA	INTERGENIC			
SNP_80424_A_71572	NW_004516061.1	scaffold643	71572	CC	TT	TT	INTERGENIC			
SNP_80425_A_71621	NW_004516061.1	scaffold643	71621	AA	CC	CC	INTERGENIC			
SNP_80426_A_71635	NW_004516061.1	scaffold643	71635	GG	AA	AA	INTERGENIC			
SNP_80427_A_71671	NW_004516061.1	scaffold643	71671	TT	CC	CC	INTERGENIC			
SNP_80428_A_23942	NW_004516062.1	scaffold645	23942	TT	GG	GG	INTERGENIC			
SNP_80429_A_23943	NW_004516062.1	scaffold645	23943	GG	TT	TT	INTERGENIC			
SNP_80430_A_23966	NW_004516062.1	scaffold645	23966	GG	TT	TT	INTERGENIC			
SNP_80431_A_71892	NW_004516062.1	scaffold645	71892	AA	GG	GG	INTERGENIC			
SNP_80432_A_71961	NW_004516062.1	scaffold645	71961	AA	TT	TT	INTERGENIC			
SNP_80433_A_71968	NW_004516062.1	scaffold645	71968	CC	TT	TT	INTERGENIC			
SNP_80434_A_72033	NW_004516062.1	scaffold645	72033	AA	GG	GG	INTERGENIC			
SNP_80435_A_72129	NW_004516062.1	scaffold645	72129	TT	AA	AA	INTERGENIC			
SNP_80436_A_72138	NW_004516062.1	scaffold645	72138	GG	AA	AA	INTERGENIC			
SNP_80437_A_72210	NW_004516062.1	scaffold645	72210	TT	GG	GG	INTERGENIC			
SNP_80438_A_73193	NW_004516062.1	scaffold645	73193	GG	AA	AA	INTERGENIC			
SNP_80439_A_73247	NW_004516062.1	scaffold645	73247	AA	CC	CC	INTERGENIC			
SNP_80440_A_73285	NW_004516062.1	scaffold645	73285	AA	GG	GG	INTERGENIC			
SNP_80441_A_73501	NW_004516062.1	scaffold645	73501	TT	CC	CC	INTERGENIC			
SNP_80442_A_73505	NW_004516062.1	scaffold645	73505	AA	GG	GG	INTERGENIC			
SNP_80443_A_73590	NW_004516062.1	scaffold645	73590	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80444_A_73698	NW_004516062.1	scaffold645	73698	AA	GG	GG	INTERGENIC			
SNP_80445_A_73726	NW_004516062.1	scaffold645	73726	GG	AA	AA	INTERGENIC			
SNP_80446_A_73731	NW_004516062.1	scaffold645	73731	CC	AA	AA	INTERGENIC			
SNP_80447_A_73739	NW_004516062.1	scaffold645	73739	GG	TT	TT	INTERGENIC			
SNP_80448_A_73864	NW_004516062.1	scaffold645	73864	AA	CC	CC	INTERGENIC			
SNP_80451_A_74046	NW_004516062.1	scaffold645	74046	GG	AA	AA	INTERGENIC			
SNP_80452_A_93810	NW_004516062.1	scaffold645	93810	AA	CC	CC	INTERGENIC			
SNP_80454_A_93977	NW_004516062.1	scaffold645	93977	TT	CC	CC	INTERGENIC			
SNP_80455_A_93998	NW_004516062.1	scaffold645	93998	TT	CC	CC	INTERGENIC			
SNP_80456_A_94012	NW_004516062.1	scaffold645	94012	AA	TT	TT	INTERGENIC			
SNP_80457_A_94360	NW_004516062.1	scaffold645	94360	GG	TT	TT	INTERGENIC			
SNP_80458_A_98532	NW_004516062.1	scaffold645	98532	AA	GG	GG	INTERGENIC			
SNP_80459_A_98835	NW_004516062.1	scaffold645	98835	TT	CC	CC	INTERGENIC			
SNP_80460_A_98862	NW_004516062.1	scaffold645	98862	TT	GG	GG	INTERGENIC			
SNP_80461_A_98863	NW_004516062.1	scaffold645	98863	AA	TT	TT	INTERGENIC			
SNP_80462_A_167307	NW_004516062.1	scaffold645	167307	TT	GG	GG	INTERGENIC			
SNP_80463_A_179620	NW_004516062.1	scaffold645	179620	GG	AA	AA	INTERGENIC			
SNP_80464_A_192667	NW_004516062.1	scaffold645	192667	AA	GG	GG	INTERGENIC			
SNP_80465_A_192780	NW_004516062.1	scaffold645	192780	GG	TT	TT	INTERGENIC			
SNP_80466_A_192798	NW_004516062.1	scaffold645	192798	GG	CC	CC	INTERGENIC			
SNP_80467_A_192815	NW_004516062.1	scaffold645	192815	CC	TT	TT	INTERGENIC			
SNP_80468_A_192825	NW_004516062.1	scaffold645	192825	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80469_A_200674	NW_004516062.1	scaffold645	200674	CC	TT	TT	INTERGENIC			
SNP_80470_A_225897	NW_004516062.1	scaffold645	225897	AA	TT	TT	INTERGENIC			
SNP_80471_A_225902	NW_004516062.1	scaffold645	225902	AA	GG	GG	INTERGENIC			
SNP_80473_A_279931	NW_004516062.1	scaffold645	279931	AA	TT	TT	INTERGENIC			
SNP_80474_A_279935	NW_004516062.1	scaffold645	279935	CC	TT	TT	INTERGENIC			
SNP_80475_A_280515	NW_004516062.1	scaffold645	280515	AA	TT	TT	INTERGENIC			
SNP_80476_A_285583	NW_004516062.1	scaffold645	285583	CC	AA	AA	INTERGENIC			
SNP_80477_A_285625	NW_004516062.1	scaffold645	285625	AA	GG	GG	INTERGENIC			
SNP_80478_A_286415	NW_004516062.1	scaffold645	286415	AA	GG	GG	INTERGENIC			
SNP_80479_A_286980	NW_004516062.1	scaffold645	286980	TT	CC	CC	INTERGENIC			
SNP_80480_A_287061	NW_004516062.1	scaffold645	287061	TT	GG	GG	INTERGENIC			
SNP_80481_A_287067	NW_004516062.1	scaffold645	287067	AA	GG	GG	INTERGENIC			
SNP_80482_A_287103	NW_004516062.1	scaffold645	287103	TT	AA	AA	INTERGENIC			
SNP_80483_A_287294	NW_004516062.1	scaffold645	287294	AA	TT	TT	INTERGENIC			
SNP_80484_A_287312	NW_004516062.1	scaffold645	287312	AA	CC	CC	INTERGENIC			
SNP_80485_A_287317	NW_004516062.1	scaffold645	287317	GG	CC	CC	INTERGENIC			
SNP_80486_A_287380	NW_004516062.1	scaffold645	287380	AA	CC	CC	INTERGENIC			
SNP_80487_A_287464	NW_004516062.1	scaffold645	287464	CC	AA	AA	INTERGENIC			
SNP_80488_A_287465	NW_004516062.1	scaffold645	287465	AA	TT	TT	INTERGENIC			
SNP_80489_A_287603	NW_004516062.1	scaffold645	287603	TT	AA	AA	INTERGENIC			
SNP_80490_A_287651	NW_004516062.1	scaffold645	287651	CC	TT	TT	INTERGENIC			
SNP_80491_A_287698	NW_004516062.1	scaffold645	287698	CC	TT	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80492_A_288303	NW_004516062.1	scaffold645	288303	GG	TT	TT	INTERGENIC			
SNP_80493_A_289421	NW_004516062.1	scaffold645	289421	GG	CC	CC	INTERGENIC			
SNP_80494_A_289515	NW_004516062.1	scaffold645	289515	GG	AA	AA	INTERGENIC			
SNP_80495_A_289958	NW_004516062.1	scaffold645	289958	TT	AA	AA	INTERGENIC			
SNP_80496_A_290062	NW_004516062.1	scaffold645	290062	AA	GG	GG	INTERGENIC			
SNP_80497_A_299449	NW_004516062.1	scaffold645	299449	CC	TT	TT	INTERGENIC			
SNP_80498_A_301221	NW_004516062.1	scaffold645	301221	AA	GG	GG	INTERGENIC			
SNP_80499_A_302641	NW_004516062.1	scaffold645	302641	TT	CC	CC	INTERGENIC			
SNP_80500_A_634	NW_004516064.1	scaffold647	634	TT	CC	CC	INTERGENIC			
SNP_80501_A_723	NW_004516064.1	scaffold647	723	GG	CC	CC	INTERGENIC			
SNP_80502_A_752	NW_004516064.1	scaffold647	752	CC	TT	TT	INTERGENIC			
SNP_80503_A_984	NW_004516064.1	scaffold647	984	TT	GG	GG	INTERGENIC			
SNP_80504_A_1032	NW_004516064.1	scaffold647	1032	CC	GG	GG	INTERGENIC			
SNP_80505_A_1047	NW_004516064.1	scaffold647	1047	TT	CC	CC	INTERGENIC			
SNP_80506_A_7367	NW_004516064.1	scaffold647	7367	TT	AA	AA	INTERGENIC			
SNP_80507_A_7403	NW_004516064.1	scaffold647	7403	AA	CC	CC	INTERGENIC			
SNP_80508_A_7466	NW_004516064.1	scaffold647	7466	TT	CC	CC	INTERGENIC			
SNP_80509_A_7574	NW_004516064.1	scaffold647	7574	AA	GG	GG	INTERGENIC			
SNP_80510_A_7637	NW_004516064.1	scaffold647	7637	AA	GG	GG	INTERGENIC			
SNP_80511_A_7674	NW_004516064.1	scaffold647	7674	GG	AA	AA	INTERGENIC			
SNP_80512_A_7677	NW_004516064.1	scaffold647	7677	TT	CC	CC	INTERGENIC			
SNP_80513_A_15626	NW_004516064.1	scaffold647	15626	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80514_A_15918	NW_004516064.1	scaffold647	15918	GG	AA	AA	INTERGENIC			
SNP_80515_A_16372	NW_004516064.1	scaffold647	16372	GG	TT	TT	INTERGENIC			
SNP_80516_A_20859	NW_004516064.1	scaffold647	20859	AA	GG	GG	INTERGENIC			
SNP_80517_A_21420	NW_004516064.1	scaffold647	21420	AA	GG	GG	INTERGENIC			
SNP_80518_A_21456	NW_004516064.1	scaffold647	21456	GG	AA	AA	INTERGENIC			
SNP_80519_A_29848	NW_004516064.1	scaffold647	29848	GG	CC	CC	INTERGENIC			
SNP_80520_A_29985	NW_004516064.1	scaffold647	29985	AA	CC	CC	INTERGENIC			
SNP_80521_A_29986	NW_004516064.1	scaffold647	29986	TT	AA	AA	INTERGENIC			
SNP_80522_A_29987	NW_004516064.1	scaffold647	29987	AA	GG	GG	INTERGENIC			
SNP_80523_A_30125	NW_004516064.1	scaffold647	30125	GG	TT	TT	INTERGENIC			
SNP_80524_A_30151	NW_004516064.1	scaffold647	30151	TT	CC	CC	INTERGENIC			
SNP_80525_A_40439	NW_004516064.1	scaffold647	40439	GG	CC	CC	INTERGENIC			
SNP_80526_A_40442	NW_004516064.1	scaffold647	40442	GG	AA	AA	INTERGENIC			
SNP_80527_A_40763	NW_004516064.1	scaffold647	40763	AA	GG	GG	INTERGENIC			
SNP_80528_A_46921	NW_004516064.1	scaffold647	46921	CC	TT	TT	INTERGENIC			
SNP_80529_A_47232	NW_004516064.1	scaffold647	47232	GG	AA	AA	INTERGENIC			
SNP_80530_A_47268	NW_004516064.1	scaffold647	47268	AA	TT	TT	INTERGENIC			
SNP_80531_A_49945	NW_004516064.1	scaffold647	49945	TT	CC	CC	INTERGENIC			
SNP_80532_A_67924	NW_004516064.1	scaffold647	67924	GG	AA	AA	INTERGENIC			
SNP_80533_A_68006	NW_004516064.1	scaffold647	68006	CC	TT	TT	INTERGENIC			
SNP_80534_A_71274	NW_004516064.1	scaffold647	71274	TT	CC	CC	INTERGENIC			
SNP_80535_A_71691	NW_004516064.1	scaffold647	71691	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80536_A_71764	NW_004516064.1	scaffold647	71764	AA	CC	CC	INTERGENIC			
SNP_80537_A_71827	NW_004516064.1	scaffold647	71827	TT	GG	GG	INTERGENIC			
SNP_80538_A_71870	NW_004516064.1	scaffold647	71870	GG	TT	TT	INTERGENIC			
SNP_80539_A_72976	NW_004516064.1	scaffold647	72976	TT	GG	GG	INTERGENIC			
SNP_80540_A_72977	NW_004516064.1	scaffold647	72977	GG	AA	AA	INTERGENIC			
SNP_80541_A_73794	NW_004516064.1	scaffold647	73794	TT	AA	AA	INTERGENIC			
SNP_80542_A_86815	NW_004516064.1	scaffold647	86815	TT	CC	CC	INTERGENIC			
SNP_80543_A_100353	NW_004516064.1	scaffold647	100353	GG	AA	AA	INTERGENIC			
SNP_80544_A_132964	NW_004516064.1	scaffold647	132964	CC	TT	TT	INTERGENIC			
SNP_80545_A_162341	NW_004516064.1	scaffold647	162341	AA	GG	GG	INTERGENIC			
SNP_80546_A_162391	NW_004516064.1	scaffold647	162391	AA	GG	GG	INTERGENIC			
SNP_80547_A_169186	NW_004516064.1	scaffold647	169186	TT	AA	AA	INTERGENIC			
SNP_80548_A_189861	NW_004516064.1	scaffold647	189861	TT	CC	CC	INTERGENIC			
SNP_80549_A_192943	NW_004516064.1	scaffold647	192943	CC	GG	GG	INTERGENIC			
SNP_80550_A_192947	NW_004516064.1	scaffold647	192947	CC	TT	TT	INTERGENIC			
SNP_80551_A_193238	NW_004516064.1	scaffold647	193238	TT	AA	AA	INTERGENIC			
SNP_80552_A_193239	NW_004516064.1	scaffold647	193239	GG	AA	AA	INTERGENIC			
SNP_80553_A_200337	NW_004516064.1	scaffold647	200337	GG	TT	TT	INTERGENIC			
SNP_80555_A_200862	NW_004516064.1	scaffold647	200862	AA	GG	GG	INTERGENIC			
SNP_80556_A_201328	NW_004516064.1	scaffold647	201328	GG	AA	AA	INTERGENIC			
SNP_80557_A_201519	NW_004516064.1	scaffold647	201519	AA	TT	TT	INTERGENIC			
SNP_80558_A_201749	NW_004516064.1	scaffold647	201749	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80560_A_201781	NW_004516064.1	scaffold647	201781	AA	GG	GG	INTERGENIC			
SNP_80561_A_201786	NW_004516064.1	scaffold647	201786	GG	AA	AA	INTERGENIC			
SNP_80562_A_201789	NW_004516064.1	scaffold647	201789	CC	TT	TT	INTERGENIC			
SNP_80563_A_201798	NW_004516064.1	scaffold647	201798	GG	AA	AA	INTERGENIC			
SNP_80564_A_201850	NW_004516064.1	scaffold647	201850	TT	GG	GG	INTERGENIC			
SNP_80565_A_212415	NW_004516064.1	scaffold647	212415	TT	CC	CC	INTERGENIC			
SNP_80566_A_212569	NW_004516064.1	scaffold647	212569	TT	CC	CC	INTERGENIC			
SNP_80567_A_212627	NW_004516064.1	scaffold647	212627	TT	GG	GG	INTERGENIC			
SNP_80568_A_212699	NW_004516064.1	scaffold647	212699	AA	GG	GG	INTERGENIC			
SNP_80569_A_212735	NW_004516064.1	scaffold647	212735	TT	CC	CC	INTERGENIC			
SNP_80570_A_212800	NW_004516064.1	scaffold647	212800	CC	TT	TT	INTERGENIC			
SNP_80571_A_464	NW_004516065.1	scaffold648	464	GG	AA	AA	INTERGENIC			
SNP_80572_A_526	NW_004516065.1	scaffold648	526	GG	TT	TT	INTERGENIC			
SNP_80573_A_730	NW_004516065.1	scaffold648	730	AA	CC	CC	INTERGENIC			
SNP_80574_A_904	NW_004516065.1	scaffold648	904	CC	TT	TT	INTERGENIC			
SNP_80575_A_1319	NW_004516065.1	scaffold648	1319	GG	AA	AA	INTERGENIC			
SNP_80576_A_1337	NW_004516065.1	scaffold648	1337	TT	AA	AA	INTERGENIC			
SNP_80577_A_1563	NW_004516065.1	scaffold648	1563	CC	AA	AA	INTERGENIC			
SNP_80578_A_1843	NW_004516065.1	scaffold648	1843	AA	TT	TT	INTERGENIC			
SNP_80579_A_4257	NW_004516065.1	scaffold648	4257	TT	GG	GG	INTERGENIC			
SNP_80580_A_4294	NW_004516065.1	scaffold648	4294	AA	GG	GG	INTERGENIC			
SNP_80581_A_33555	NW_004516065.1	scaffold648	33555	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80582_A_2230	NW_004516067.1	scaffold651	2230	TT	CC	CC	INTERGENIC			
SNP_80583_A_2529	NW_004516067.1	scaffold651	2529	TT	GG	GG	INTERGENIC			
SNP_80584_A_4919	NW_004516067.1	scaffold651	4919	TT	AA	AA	INTERGENIC			
SNP_80585_A_4994	NW_004516067.1	scaffold651	4994	GG	TT	TT	INTERGENIC			
SNP_80587_A_5000	NW_004516067.1	scaffold651	5000	GG	AA	AA	INTERGENIC			
SNP_80588_A_7595	NW_004516067.1	scaffold651	7595	AA	CC	CC	INTERGENIC			
SNP_80589_A_7721	NW_004516067.1	scaffold651	7721	GG	TT	TT	INTERGENIC			
SNP_80590_A_7780	NW_004516067.1	scaffold651	7780	TT	AA	AA	INTERGENIC			
SNP_80591_A_7843	NW_004516067.1	scaffold651	7843	TT	AA	AA	INTERGENIC			
SNP_80592_A_7917	NW_004516067.1	scaffold651	7917	TT	GG	GG	INTERGENIC			
SNP_80593_A_38999	NW_004516067.1	scaffold651	38999	GG	TT	TT	INTERGENIC			
SNP_80594_A_42283	NW_004516067.1	scaffold651	42283	GG	AA	AA	INTERGENIC			
SNP_80595_A_58910	NW_004516067.1	scaffold651	58910	GG	CC	CC	INTERGENIC			
SNP_80596_A_58942	NW_004516067.1	scaffold651	58942	AA	GG	GG	INTERGENIC			
SNP_80597_A_58958	NW_004516067.1	scaffold651	58958	TT	CC	CC	INTERGENIC			
SNP_80598_A_58969	NW_004516067.1	scaffold651	58969	AA	TT	TT	INTERGENIC			
SNP_80600_A_200800	NW_004516069.1	scaffold653	200800	AA	GG	GG	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	
SNP_80601_A_200803	NW_004516069.1	scaffold653	200803	CC	AA	AA	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	
SNP_80602_A_200811	NW_004516069.1	scaffold653	200811	CC	TT	TT	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	
SNP_80603_A_200821	NW_004516069.1	scaffold653	200821	GG	AA	AA	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	
SNP_80604_A_200837	NW_004516069.1	scaffold653	200837	AA	GG	GG	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	
SNP_80605_A_200859	NW_004516069.1	scaffold653	200859	CC	TT	TT	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80606_A_200882	NW_004516069.1	scaffold653	200882	AA	GG	GG	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like
SNP_80607_A_201064	NW_004516069.1	scaffold653	201064	CC	TT	TT	URR	101506392	histidinol-phosphate aminotransferase, chloroplastic-like
SNP_80608_A_908	NW_004516070.1	scaffold654	908	AA	GG	GG	INTERGENIC		
SNP_80609_A_977	NW_004516070.1	scaffold654	977	AA	TT	TT	INTERGENIC		
SNP_80610_A_1393	NW_004516070.1	scaffold654	1393	TT	CC	CC	INTERGENIC		
SNP_80612_A_1399	NW_004516070.1	scaffold654	1399	CC	TT	TT	INTERGENIC		
SNP_80613_A_8675	NW_004516070.1	scaffold654	8675	GG	TT	TT	INTERGENIC		
SNP_80614_A_48177	NW_004516070.1	scaffold654	48177	CC	GG	GG	INTERGENIC		
SNP_80616_A_26611	NW_004516075.1	scaffold661	26611	GG	AA	AA	DRR	101509498	uncharacterized LOC101509498
SNP_80617_A_85102	NW_004516075.1	scaffold661	85102	TT	GG	GG	INTERGENIC		
SNP_80618_A_85111	NW_004516075.1	scaffold661	85111	CC	TT	TT	INTERGENIC		
SNP_80619_A_105994	NW_004516075.1	scaffold661	105994	GG	AA	AA	INTERGENIC		
SNP_80620_A_133164	NW_004516075.1	scaffold661	133164	AA	GG	GG	INTERGENIC		
SNP_80621_A_135277	NW_004516075.1	scaffold661	135277	AA	GG	GG	INTERGENIC		
SNP_80622_A_135295	NW_004516075.1	scaffold661	135295	CC	TT	TT	INTERGENIC		
SNP_80623_A_135317	NW_004516075.1	scaffold661	135317	TT	CC	CC	INTERGENIC		
SNP_80624_A_157574	NW_004516075.1	scaffold661	157574	TT	GG	GG	INTERGENIC		
SNP_80625_A_157666	NW_004516075.1	scaffold661	157666	TT	CC	CC	INTERGENIC		
SNP_80626_A_175748	NW_004516075.1	scaffold661	175748	GG	AA	AA	INTERGENIC		
SNP_80627_A_175752	NW_004516075.1	scaffold661	175752	CC	TT	TT	INTERGENIC		
SNP_80628_A_176159	NW_004516075.1	scaffold661	176159	TT	CC	CC	INTERGENIC		
SNP_80629_A_176198	NW_004516075.1	scaffold661	176198	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80630_A_176213	NW_004516075.1	scaffold661	176213	AA	GG	GG	INTERGENIC			
SNP_80631_A_177243	NW_004516075.1	scaffold661	177243	AA	CC	CC	INTERGENIC			
SNP_80632_A_177248	NW_004516075.1	scaffold661	177248	GG	AA	AA	INTERGENIC			
SNP_80633_A_177850	NW_004516075.1	scaffold661	177850	AA	CC	CC	INTERGENIC			
SNP_80634_A_177854	NW_004516075.1	scaffold661	177854	CC	TT	TT	INTERGENIC			
SNP_80636_A_195553	NW_004516075.1	scaffold661	195553	TT	GG	GG	INTERGENIC			
SNP_80637_A_195606	NW_004516075.1	scaffold661	195606	AA	GG	GG	INTERGENIC			
SNP_80638_A_250207	NW_004516075.1	scaffold661	250207	TT	GG	GG	INTERGENIC			
SNP_80640_A_272172	NW_004516075.1	scaffold661	272172	CC	TT	TT	INTERGENIC			
SNP_80641_A_272173	NW_004516075.1	scaffold661	272173	CC	TT	TT	INTERGENIC			
SNP_80642_A_272443	NW_004516075.1	scaffold661	272443	TT	CC	CC	INTERGENIC			
SNP_80643_A_272642	NW_004516075.1	scaffold661	272642	GG	AA	AA	INTERGENIC			
SNP_80644_A_277025	NW_004516075.1	scaffold661	277025	TT	CC	CC	INTERGENIC			
SNP_80645_A_277381	NW_004516075.1	scaffold661	277381	GG	AA	AA	INTERGENIC			
SNP_80646_A_277384	NW_004516075.1	scaffold661	277384	GG	CC	CC	INTERGENIC			
SNP_80647_A_277465	NW_004516075.1	scaffold661	277465	TT	CC	CC	INTERGENIC			
SNP_80648_A_277489	NW_004516075.1	scaffold661	277489	AA	GG	GG	INTERGENIC			
SNP_80649_A_305791	NW_004516075.1	scaffold661	305791	CC	AA	AA	INTERGENIC			
SNP_80650_A_326902	NW_004516075.1	scaffold661	326902	TT	CC	CC	INTERGENIC			
SNP_80651_A_327232	NW_004516075.1	scaffold661	327232	AA	GG	GG	INTERGENIC			
SNP_80652_A_327304	NW_004516075.1	scaffold661	327304	TT	CC	CC	INTERGENIC			
SNP_80653_A_327335	NW_004516075.1	scaffold661	327335	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80654_A_340391	NW_004516075.1	scaffold661	340391	CC	TT	TT	INTERGENIC			
SNP_80655_A_340394	NW_004516075.1	scaffold661	340394	TT	AA	AA	INTERGENIC			
SNP_80656_A_340519	NW_004516075.1	scaffold661	340519	AA	GG	GG	INTERGENIC			
SNP_80657_A_340644	NW_004516075.1	scaffold661	340644	AA	GG	GG	INTERGENIC			
SNP_80658_A_340852	NW_004516075.1	scaffold661	340852	AA	TT	TT	INTERGENIC			
SNP_80659_A_429484	NW_004516075.1	scaffold661	429484	AA	CC	CC	INTERGENIC			
SNP_80660_A_429506	NW_004516075.1	scaffold661	429506	TT	GG	GG	INTERGENIC			
SNP_80661_A_430237	NW_004516075.1	scaffold661	430237	TT	CC	CC	INTERGENIC			
SNP_80662_A_445458	NW_004516075.1	scaffold661	445458	CC	TT	TT	INTERGENIC			
SNP_80663_A_445924	NW_004516075.1	scaffold661	445924	GG	AA	AA	INTERGENIC			
SNP_80664_A_474435	NW_004516075.1	scaffold661	474435	AA	CC	CC	INTERGENIC			
SNP_80665_A_474486	NW_004516075.1	scaffold661	474486	GG	CC	CC	INTERGENIC			
SNP_80667_A_476869	NW_004516075.1	scaffold661	476869	AA	GG	GG	INTERGENIC			
SNP_80668_A_480531	NW_004516075.1	scaffold661	480531	AA	GG	GG	INTERGENIC			
SNP_80669_A_480809	NW_004516075.1	scaffold661	480809	AA	CC	CC	INTERGENIC			
SNP_80670_A_481907	NW_004516075.1	scaffold661	481907	AA	TT	TT	INTERGENIC			
SNP_80671_A_481908	NW_004516075.1	scaffold661	481908	TT	GG	GG	INTERGENIC			
SNP_80672_A_482203	NW_004516075.1	scaffold661	482203	TT	CC	CC	INTERGENIC			
SNP_80673_A_482213	NW_004516075.1	scaffold661	482213	CC	TT	TT	INTERGENIC			
SNP_80674_A_482255	NW_004516075.1	scaffold661	482255	TT	CC	CC	INTERGENIC			
SNP_80675_A_482439	NW_004516075.1	scaffold661	482439	GG	AA	AA	INTERGENIC			
SNP_80676_A_482444	NW_004516075.1	scaffold661	482444	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80678_A_597627	NW_004516075.1	scaffold661	597627	TT	CC	CC	INTERGENIC		
SNP_80679_A_632368	NW_004516075.1	scaffold661	632368	TT	CC	CC	URR	101508959	uncharacterized LOC101508959
SNP_80680_A_632373	NW_004516075.1	scaffold661	632373	TT	CC	CC	URR	101508959	uncharacterized LOC101508959
SNP_80681_A_671780	NW_004516075.1	scaffold661	671780	CC	TT	TT	INTERGENIC		
SNP_80682_A_671783	NW_004516075.1	scaffold661	671783	AA	GG	GG	INTERGENIC		
SNP_80683_A_671798	NW_004516075.1	scaffold661	671798	TT	CC	CC	INTERGENIC		
SNP_80684_A_671801	NW_004516075.1	scaffold661	671801	AA	GG	GG	INTERGENIC		
SNP_80685_A_671837	NW_004516075.1	scaffold661	671837	CC	GG	GG	INTERGENIC		
SNP_80686_A_671869	NW_004516075.1	scaffold661	671869	AA	GG	GG	INTERGENIC		
SNP_80687_A_671871	NW_004516075.1	scaffold661	671871	CC	TT	TT	INTERGENIC		
SNP_80688_A_672147	NW_004516075.1	scaffold661	672147	GG	AA	AA	INTERGENIC		
SNP_80689_A_687476	NW_004516075.1	scaffold661	687476	AA	CC	CC	INTERGENIC		
SNP_80690_A_707856	NW_004516075.1	scaffold661	707856	AA	GG	GG	DRR	101514006	Unknown function
SNP_80691_A_725026	NW_004516075.1	scaffold661	725026	TT	GG	GG	INTERGENIC		
SNP_80692_A_725078	NW_004516075.1	scaffold661	725078	AA	TT	TT	INTERGENIC		
SNP_80693_A_726471	NW_004516075.1	scaffold661	726471	GG	AA	AA	INTERGENIC		
SNP_80694_A_727191	NW_004516075.1	scaffold661	727191	GG	TT	TT	INTERGENIC		
SNP_80695_A_727225	NW_004516075.1	scaffold661	727225	CC	GG	GG	INTERGENIC		
SNP_80696_A_727245	NW_004516075.1	scaffold661	727245	TT	CC	CC	INTERGENIC		
SNP_80697_A_727526	NW_004516075.1	scaffold661	727526	GG	CC	CC	INTERGENIC		
SNP_80698_A_754304	NW_004516075.1	scaffold661	754304	CC	AA	AA	INTERGENIC		
SNP_80699_A_16699	NW_004516076.1	scaffold662	16699	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80700_A_16702	NW_004516076.1	scaffold662	16702	TT	CC	CC	INTERGENIC		
SNP_80701_A_16788	NW_004516076.1	scaffold662	16788	TT	CC	CC	INTERGENIC		
SNP_80702_A_18628	NW_004516076.1	scaffold662	18628	GG	AA	AA	SYNONYMOUS_CODING	101514992	uncharacterized LOC101514992
SNP_80703_A_26678	NW_004516076.1	scaffold662	26678	TT	CC	CC	INTERGENIC		
SNP_80704_A_98556	NW_004516076.1	scaffold662	98556	AA	TT	TT	INTERGENIC		
SNP_80705_A_98940	NW_004516076.1	scaffold662	98940	GG	AA	AA	INTERGENIC		
SNP_80706_A_108135	NW_004516076.1	scaffold662	108135	CC	TT	TT	INTERGENIC		
SNP_80707_A_110616	NW_004516076.1	scaffold662	110616	CC	TT	TT	INTERGENIC		
SNP_80708_A_22897	NW_004516077.1	scaffold663	22897	CC	AA	AA	URR	101488725	rRNA-processing protein FCF1 homolog
SNP_80709_A_23178	NW_004516077.1	scaffold663	23178	AA	GG	GG	URR	101488725	rRNA-processing protein FCF1 homolog
SNP_80710_A_23212	NW_004516077.1	scaffold663	23212	AA	GG	GG	URR	101488725	rRNA-processing protein FCF1 homolog
SNP_80711_A_23573	NW_004516077.1	scaffold663	23573	AA	GG	GG	URR	101488725	rRNA-processing protein FCF1 homolog
SNP_80712_A_48126	NW_004516077.1	scaffold663	48126	CC	TT	TT	INTERGENIC		
SNP_80713_A_48896	NW_004516077.1	scaffold663	48896	GG	TT	TT	INTERGENIC		
SNP_80714_A_55318	NW_004516077.1	scaffold663	55318	CC	AA	AA	INTERGENIC		
SNP_80715_A_63517	NW_004516077.1	scaffold663	63517	CC	GG	GG	INTERGENIC		
SNP_80716_A_63658	NW_004516077.1	scaffold663	63658	CC	TT	TT	INTERGENIC		
SNP_80717_A_63855	NW_004516077.1	scaffold663	63855	AA	GG	GG	INTERGENIC		
SNP_80718_A_63901	NW_004516077.1	scaffold663	63901	GG	TT	TT	INTERGENIC		
SNP_80719_A_86192	NW_004516077.1	scaffold663	86192	TT	CC	CC	INTERGENIC		
SNP_80720_A_108293	NW_004516077.1	scaffold663	108293	TT	CC	CC	INTERGENIC		
SNP_80721_A_108294	NW_004516077.1	scaffold663	108294	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80722_A_109036	NW_004516077.1	scaffold663	109036	GG	AA	AA	INTERGENIC			
SNP_80723_A_109081	NW_004516077.1	scaffold663	109081	TT	AA	AA	INTERGENIC			
SNP_80724_A_109083	NW_004516077.1	scaffold663	109083	GG	TT	TT	INTERGENIC			
SNP_80725_A_109089	NW_004516077.1	scaffold663	109089	CC	GG	GG	INTERGENIC			
SNP_80726_A_109096	NW_004516077.1	scaffold663	109096	AA	TT	TT	INTERGENIC			
SNP_80727_A_109098	NW_004516077.1	scaffold663	109098	TT	GG	GG	INTERGENIC			
SNP_80728_A_109114	NW_004516077.1	scaffold663	109114	GG	AA	AA	INTERGENIC			
SNP_80729_A_109129	NW_004516077.1	scaffold663	109129	TT	GG	GG	INTERGENIC			
SNP_80730_A_109174	NW_004516077.1	scaffold663	109174	AA	CC	CC	INTERGENIC			
SNP_80731_A_109192	NW_004516077.1	scaffold663	109192	TT	CC	CC	INTERGENIC			
SNP_80732_A_109198	NW_004516077.1	scaffold663	109198	CC	TT	TT	INTERGENIC			
SNP_80733_A_109207	NW_004516077.1	scaffold663	109207	GG	AA	AA	INTERGENIC			
SNP_80734_A_109247	NW_004516077.1	scaffold663	109247	TT	AA	AA	INTERGENIC			
SNP_80735_A_109271	NW_004516077.1	scaffold663	109271	GG	AA	AA	INTERGENIC			
SNP_80736_A_109283	NW_004516077.1	scaffold663	109283	GG	AA	AA	INTERGENIC			
SNP_80737_A_166937	NW_004516077.1	scaffold663	166937	AA	TT	TT	INTERGENIC			
SNP_80738_A_167137	NW_004516077.1	scaffold663	167137	AA	GG	GG	INTERGENIC			
SNP_80739_A_442	NW_004516079.1	scaffold665	442	AA	GG	GG	INTERGENIC			
SNP_80740_A_3448	NW_004516079.1	scaffold665	3448	TT	CC	CC	INTERGENIC			
SNP_80741_A_16187	NW_004516079.1	scaffold665	16187	GG	AA	AA	INTERGENIC			
SNP_80742_A_16435	NW_004516079.1	scaffold665	16435	TT	CC	CC	INTERGENIC			
SNP_80743_A_16750	NW_004516079.1	scaffold665	16750	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80744_A_17547	NW_004516079.1	scaffold665	17547	CC	GG	GG	INTERGENIC			
SNP_80745_A_17603	NW_004516079.1	scaffold665	17603	GG	AA	AA	INTERGENIC			
SNP_80746_A_85	NW_004516080.1	scaffold666	85	TT	CC	CC	INTERGENIC			
SNP_80747_A_11276	NW_004516080.1	scaffold666	11276	GG	CC	CC	INTERGENIC			
SNP_80748_A_2369	NW_004516081.1	scaffold667	2369	AA	TT	TT	INTERGENIC			
SNP_80749_A_2534	NW_004516081.1	scaffold667	2534	AA	TT	TT	INTERGENIC			
SNP_80750_A_2567	NW_004516081.1	scaffold667	2567	GG	CC	CC	INTERGENIC			
SNP_80751_A_2767	NW_004516081.1	scaffold667	2767	CC	TT	TT	INTERGENIC			
SNP_80752_A_2834	NW_004516081.1	scaffold667	2834	TT	GG	GG	INTERGENIC			
SNP_80753_A_2871	NW_004516081.1	scaffold667	2871	CC	TT	TT	INTERGENIC			
SNP_80754_A_527	NW_004516082.1	scaffold668	527	GG	CC	CC	INTERGENIC			
SNP_80755_A_1462	NW_004516083.1	scaffold669	1462	AA	GG	GG	INTERGENIC			
SNP_80756_A_6488	NW_004516084.1	scaffold670	6488	AA	CC	CC	INTERGENIC			
SNP_80757_A_17522	NW_004516084.1	scaffold670	17522	GG	AA	AA	INTERGENIC			
SNP_80758_A_17772	NW_004516084.1	scaffold670	17772	TT	CC	CC	INTERGENIC			
SNP_80759_A_17797	NW_004516084.1	scaffold670	17797	CC	AA	AA	INTERGENIC			
SNP_80760_A_46673	NW_004516084.1	scaffold670	46673	CC	TT	TT	INTERGENIC			
SNP_80762_A_68793	NW_004516084.1	scaffold670	68793	GG	AA	AA	INTERGENIC			
SNP_80763_A_72186	NW_004516084.1	scaffold670	72186	TT	CC	CC	INTERGENIC			
SNP_80764_A_78505	NW_004516084.1	scaffold670	78505	CC	GG	GG	INTERGENIC			
SNP_80765_A_78528	NW_004516084.1	scaffold670	78528	TT	CC	CC	INTERGENIC			
SNP_80766_A_104026	NW_004516084.1	scaffold670	104026	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80767_A_104132	NW_004516084.1	scaffold670	104132	AA	TT	TT	INTERGENIC			
SNP_80768_A_104222	NW_004516084.1	scaffold670	104222	TT	CC	CC	INTERGENIC			
SNP_80769_A_108729	NW_004516084.1	scaffold670	108729	TT	CC	CC	INTERGENIC			
SNP_80770_A_116278	NW_004516084.1	scaffold670	116278	CC	TT	TT	INTERGENIC			
SNP_80771_A_127887	NW_004516084.1	scaffold670	127887	TT	AA	AA	INTERGENIC			
SNP_80772_A_127907	NW_004516084.1	scaffold670	127907	AA	GG	GG	INTERGENIC			
SNP_80773_A_128919	NW_004516084.1	scaffold670	128919	AA	GG	GG	INTERGENIC			
SNP_80775_A_129502	NW_004516084.1	scaffold670	129502	TT	AA	AA	INTERGENIC			
SNP_80776_A_129577	NW_004516084.1	scaffold670	129577	AA	GG	GG	INTERGENIC			
SNP_80777_A_129616	NW_004516084.1	scaffold670	129616	AA	TT	TT	INTERGENIC			
SNP_80778_A_129899	NW_004516084.1	scaffold670	129899	AA	GG	GG	INTERGENIC			
SNP_80779_A_131022	NW_004516084.1	scaffold670	131022	GG	TT	TT	INTERGENIC			
SNP_80780_A_133611	NW_004516084.1	scaffold670	133611	AA	CC	CC	INTERGENIC			
SNP_80781_A_154042	NW_004516084.1	scaffold670	154042	GG	CC	CC	INTERGENIC			
SNP_80782_A_154094	NW_004516084.1	scaffold670	154094	AA	CC	CC	INTERGENIC			
SNP_80783_A_156628	NW_004516084.1	scaffold670	156628	GG	TT	TT	INTERGENIC			
SNP_80784_A_156646	NW_004516084.1	scaffold670	156646	CC	AA	AA	INTERGENIC			
SNP_80785_A_156651	NW_004516084.1	scaffold670	156651	CC	GG	GG	INTERGENIC			
SNP_80786_A_156658	NW_004516084.1	scaffold670	156658	TT	CC	CC	INTERGENIC			
SNP_80787_A_156664	NW_004516084.1	scaffold670	156664	TT	CC	CC	INTERGENIC			
SNP_80788_A_163212	NW_004516084.1	scaffold670	163212	TT	CC	CC	INTERGENIC			
SNP_80789_A_163229	NW_004516084.1	scaffold670	163229	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80790_A_163423	NW_004516084.1	scaffold670	163423	CC	TT	TT	INTERGENIC			
SNP_80791_A_163727	NW_004516084.1	scaffold670	163727	TT	AA	AA	INTERGENIC			
SNP_80792_A_163773	NW_004516084.1	scaffold670	163773	GG	AA	AA	INTERGENIC			
SNP_80793_A_163793	NW_004516084.1	scaffold670	163793	AA	GG	GG	INTERGENIC			
SNP_80795_A_164686	NW_004516084.1	scaffold670	164686	TT	CC	CC	INTERGENIC			
SNP_80797_A_186373	NW_004516084.1	scaffold670	186373	CC	TT	TT	INTERGENIC			
SNP_80799_A_187103	NW_004516084.1	scaffold670	187103	TT	CC	CC	INTERGENIC			
SNP_80800_A_194947	NW_004516084.1	scaffold670	194947	AA	GG	GG	INTERGENIC			
SNP_80801_A_194953	NW_004516084.1	scaffold670	194953	AA	GG	GG	INTERGENIC			
SNP_80802_A_194954	NW_004516084.1	scaffold670	194954	AA	GG	GG	INTERGENIC			
SNP_80803_A_194997	NW_004516084.1	scaffold670	194997	TT	GG	GG	INTERGENIC			
SNP_80804_A_195270	NW_004516084.1	scaffold670	195270	AA	GG	GG	INTERGENIC			
SNP_80805_A_197738	NW_004516084.1	scaffold670	197738	GG	AA	AA	INTERGENIC			
SNP_80807_A_197842	NW_004516084.1	scaffold670	197842	TT	AA	AA	INTERGENIC			
SNP_80809_A_198151	NW_004516084.1	scaffold670	198151	TT	CC	CC	INTERGENIC			
SNP_80810_A_201204	NW_004516084.1	scaffold670	201204	TT	CC	CC	INTERGENIC			
SNP_80811_A_201295	NW_004516084.1	scaffold670	201295	TT	CC	CC	INTERGENIC			
SNP_80812_A_202373	NW_004516084.1	scaffold670	202373	TT	AA	AA	INTERGENIC			
SNP_80813_A_202390	NW_004516084.1	scaffold670	202390	AA	TT	TT	INTERGENIC			
SNP_80814_A_202395	NW_004516084.1	scaffold670	202395	CC	AA	TT	INTERGENIC			
SNP_80815_A_202401	NW_004516084.1	scaffold670	202401	AA	CC	CC	INTERGENIC			
SNP_80816_A_205080	NW_004516084.1	scaffold670	205080	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80819_A_227956	NW_004516084.1	scaffold670	227956	GG	AA	AA	INTERGENIC			
SNP_80820_A_227981	NW_004516084.1	scaffold670	227981	TT	AA	AA	INTERGENIC			
SNP_80821_A_230694	NW_004516084.1	scaffold670	230694	TT	GG	GG	INTERGENIC			
SNP_80822_A_232391	NW_004516084.1	scaffold670	232391	AA	CC	CC	INTERGENIC			
SNP_80823_A_232599	NW_004516084.1	scaffold670	232599	TT	CC	CC	INTERGENIC			
SNP_80824_A_232795	NW_004516084.1	scaffold670	232795	AA	GG	GG	INTERGENIC			
SNP_80825_A_263386	NW_004516084.1	scaffold670	263386	TT	CC	CC	INTERGENIC			
SNP_80826_A_264026	NW_004516084.1	scaffold670	264026	GG	AA	AA	INTERGENIC			
SNP_80827_A_264052	NW_004516084.1	scaffold670	264052	TT	AA	AA	INTERGENIC			
SNP_80829_A_93340	NW_004516085.1	scaffold672	93340	GG	AA	AA	INTERGENIC			
SNP_80830_A_93882	NW_004516085.1	scaffold672	93882	CC	GG	GG	INTERGENIC			
SNP_80831_A_95207	NW_004516085.1	scaffold672	95207	GG	TT	TT	INTERGENIC			
SNP_80832_A_95295	NW_004516085.1	scaffold672	95295	GG	AA	AA	INTERGENIC			
SNP_80833_A_95315	NW_004516085.1	scaffold672	95315	TT	CC	CC	INTERGENIC			
SNP_80834_A_101807	NW_004516085.1	scaffold672	101807	TT	CC	CC	INTERGENIC			
SNP_80835_A_101942	NW_004516085.1	scaffold672	101942	AA	CC	CC	INTERGENIC			
SNP_80836_A_102137	NW_004516085.1	scaffold672	102137	TT	CC	CC	INTERGENIC			
SNP_80837_A_102446	NW_004516085.1	scaffold672	102446	TT	CC	CC	INTERGENIC			
SNP_80838_A_102736	NW_004516085.1	scaffold672	102736	CC	TT	TT	INTERGENIC			
SNP_80839_A_102739	NW_004516085.1	scaffold672	102739	GG	AA	AA	INTERGENIC			
SNP_80840_A_104213	NW_004516085.1	scaffold672	104213	AA	CC	CC	INTERGENIC			
SNP_80841_A_111030	NW_004516085.1	scaffold672	111030	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80842_A_111405	NW_004516085.1	scaffold672	111405	AA	GG	GG	INTERGENIC			
SNP_80843_A_111429	NW_004516085.1	scaffold672	111429	CC	TT	TT	INTERGENIC			
SNP_80844_A_154022	NW_004516085.1	scaffold672	154022	CC	AA	AA	INTERGENIC			
SNP_80845_A_161674	NW_004516085.1	scaffold672	161674	TT	GG	GG	INTERGENIC			
SNP_80846_A_167959	NW_004516085.1	scaffold672	167959	TT	AA	AA	INTERGENIC			
SNP_80847_A_182981	NW_004516085.1	scaffold672	182981	AA	GG	GG	INTERGENIC			
SNP_80848_A_191941	NW_004516085.1	scaffold672	191941	CC	TT	TT	INTERGENIC			
SNP_80849_A_192085	NW_004516085.1	scaffold672	192085	AA	GG	GG	INTERGENIC			
SNP_80850_A_193580	NW_004516085.1	scaffold672	193580	AA	GG	GG	INTERGENIC			
SNP_80852_A_215815	NW_004516085.1	scaffold672	215815	AA	GG	GG	INTERGENIC			
SNP_80853_A_217281	NW_004516085.1	scaffold672	217281	TT	AA	AA	INTERGENIC			
SNP_80854_A_231863	NW_004516085.1	scaffold672	231863	CC	AA	AA	INTERGENIC			
SNP_80855_A_4734	NW_004516086.1	scaffold673	4734	AA	TT	TT	INTERGENIC			
SNP_80856_A_17303	NW_004516086.1	scaffold673	17303	TT	CC	CC	INTERGENIC			
SNP_80857_A_17686	NW_004516086.1	scaffold673	17686	AA	TT	TT	INTERGENIC			
SNP_80858_A_1972	NW_004516087.1	scaffold674	1972	TT	CC	CC	INTERGENIC			
SNP_80859_A_1994	NW_004516087.1	scaffold674	1994	CC	AA	AA	INTERGENIC			
SNP_80860_A_7988	NW_004516087.1	scaffold674	7988	TT	CC	CC	INTERGENIC			
SNP_80861_A_13122	NW_004516087.1	scaffold674	13122	AA	GG	GG	INTERGENIC			
SNP_80862_A_18545	NW_004516087.1	scaffold674	18545	TT	CC	CC	INTERGENIC			
SNP_80864_A_18553	NW_004516087.1	scaffold674	18553	TT	CC	CC	INTERGENIC			
SNP_80865_A_18557	NW_004516087.1	scaffold674	18557	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80866_A_18569	NW_004516087.1	scaffold674	18569	TT	GG	GG	INTERGENIC			
SNP_80867_A_18602	NW_004516087.1	scaffold674	18602	GG	AA	AA	INTERGENIC			
SNP_80868_A_18603	NW_004516087.1	scaffold674	18603	GG	AA	AA	INTERGENIC			
SNP_80869_A_18611	NW_004516087.1	scaffold674	18611	CC	TT	TT	INTERGENIC			
SNP_80870_A_18614	NW_004516087.1	scaffold674	18614	AA	TT	TT	INTERGENIC			
SNP_80871_A_18626	NW_004516087.1	scaffold674	18626	AA	GG	GG	INTERGENIC			
SNP_80872_A_18631	NW_004516087.1	scaffold674	18631	AA	GG	GG	INTERGENIC			
SNP_80873_A_18645	NW_004516087.1	scaffold674	18645	AA	GG	GG	INTERGENIC			
SNP_80874_A_18654	NW_004516087.1	scaffold674	18654	TT	CC	CC	INTERGENIC			
SNP_80875_A_18659	NW_004516087.1	scaffold674	18659	AA	GG	GG	INTERGENIC			
SNP_80876_A_18686	NW_004516087.1	scaffold674	18686	AA	GG	GG	INTERGENIC			
SNP_80877_A_18695	NW_004516087.1	scaffold674	18695	AA	GG	GG	INTERGENIC			
SNP_80878_A_18703	NW_004516087.1	scaffold674	18703	TT	CC	CC	INTERGENIC			
SNP_80879_A_18707	NW_004516087.1	scaffold674	18707	TT	CC	CC	INTERGENIC			
SNP_80880_A_22778	NW_004516087.1	scaffold674	22778	TT	AA	AA	INTERGENIC			
SNP_80881_A_32231	NW_004516087.1	scaffold674	32231	GG	AA	AA	INTERGENIC			
SNP_80882_A_32418	NW_004516087.1	scaffold674	32418	TT	CC	CC	INTERGENIC			
SNP_80883_A_32454	NW_004516087.1	scaffold674	32454	AA	GG	GG	INTERGENIC			
SNP_80884_A_42769	NW_004516087.1	scaffold674	42769	AA	GG	GG	INTERGENIC			
SNP_80885_A_44355	NW_004516087.1	scaffold674	44355	TT	CC	CC	SYNONYMOUS_CODING	id204305	Unknown function	
SNP_80886_A_45029	NW_004516087.1	scaffold674	45029	AA	GG	GG	INTRON	id204305	Unknown function	
SNP_80887_A_47652	NW_004516087.1	scaffold674	47652	TT	CC	CC	URR	101491329	uncharacterized LOC101491329	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80888_A_63686	NW_004516087.1	scaffold674	63686	TT	AA	AA	INTERGENIC		
SNP_80889_A_63687	NW_004516087.1	scaffold674	63687	GG	TT	TT	INTERGENIC		
SNP_80890_A_71977	NW_004516087.1	scaffold674	71977	AA	CC	CC	DRR	101496742	zinc finger MYM-type protein 1-like
SNP_80891_A_76927	NW_004516087.1	scaffold674	76927	AA	CC	CC	INTERGENIC		
SNP_80893_A_87139	NW_004516087.1	scaffold674	87139	TT	CC	CC	INTERGENIC		
SNP_80894_A_87145	NW_004516087.1	scaffold674	87145	TT	CC	CC	INTERGENIC		
SNP_80895_A_87170	NW_004516087.1	scaffold674	87170	AA	GG	GG	INTERGENIC		
SNP_80896_A_87173	NW_004516087.1	scaffold674	87173	TT	CC	CC	INTERGENIC		
SNP_80897_A_87416	NW_004516087.1	scaffold674	87416	GG	AA	AA	INTERGENIC		
SNP_80898_A_87449	NW_004516087.1	scaffold674	87449	CC	TT	TT	INTERGENIC		
SNP_80899_A_95620	NW_004516087.1	scaffold674	95620	TT	CC	CC	DRR	101491538	uncharacterized LOC101491538
SNP_80900_A_96780	NW_004516087.1	scaffold674	96780	GG	TT	TT	STOP_GAINED	id204311	Unknown function
SNP_80901_A_96825	NW_004516087.1	scaffold674	96825	GG	AA	AA	INTRON	id204311	Unknown function
SNP_80902_A_96829	NW_004516087.1	scaffold674	96829	AA	GG	GG	INTRON	id204311	Unknown function
SNP_80903_A_100575	NW_004516087.1	scaffold674	100575	AA	GG	GG	INTRON	101497049	uncharacterized LOC101497049
SNP_80904_A_107176	NW_004516087.1	scaffold674	107176	GG	AA	AA	INTERGENIC		
SNP_80905_A_124269	NW_004516087.1	scaffold674	124269	AA	GG	GG	INTERGENIC		
SNP_80906_A_131026	NW_004516087.1	scaffold674	131026	AA	GG	GG	INTRON	101492069	uncharacterized LOC101492069
SNP_80908_A_131835	NW_004516087.1	scaffold674	131835	AA	GG	GG	INTRON	101492069	uncharacterized LOC101492069
SNP_80909_A_132944	NW_004516087.1	scaffold674	132944	GG	AA	AA	INTRON	101492069	uncharacterized LOC101492069
SNP_80910_A_139386	NW_004516087.1	scaffold674	139386	CC	TT	TT	URR	101492069	uncharacterized LOC101492069
SNP_80911_A_140953	NW_004516087.1	scaffold674	140953	TT	AA	AA	DRR	101497384	uncharacterized LOC101497384

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80912_A_150775	NW_004516087.1	scaffold674	150775	TT	AA	AA	INTERGENIC		
SNP_80913_A_150776	NW_004516087.1	scaffold674	150776	TT	AA	AA	INTERGENIC		
SNP_80914_A_178151	NW_004516087.1	scaffold674	178151	GG	CC	CC	URR	101498038	uncharacterized LOC101498038
SNP_80915_A_179704	NW_004516087.1	scaffold674	179704	TT	CC	CC	INTERGENIC		
SNP_80916_A_181270	NW_004516087.1	scaffold674	181270	TT	AA	AA	INTERGENIC		
SNP_80917_A_181558	NW_004516087.1	scaffold674	181558	GG	AA	AA	INTERGENIC		
SNP_80918_A_181561	NW_004516087.1	scaffold674	181561	GG	AA	AA	INTERGENIC		
SNP_80920_A_181754	NW_004516087.1	scaffold674	181754	TT	CC	CC	INTERGENIC		
SNP_80921_A_181837	NW_004516087.1	scaffold674	181837	CC	GG	GG	INTERGENIC		
SNP_80922_A_187044	NW_004516087.1	scaffold674	187044	AA	GG	GG	INTERGENIC		
SNP_80923_A_187117	NW_004516087.1	scaffold674	187117	TT	GG	GG	INTERGENIC		
SNP_80924_A_195965	NW_004516087.1	scaffold674	195965	AA	GG	GG	INTERGENIC		
SNP_80925_A_198702	NW_004516087.1	scaffold674	198702	TT	GG	GG	INTERGENIC		
SNP_80926_A_201989	NW_004516087.1	scaffold674	201989	AA	GG	GG	INTERGENIC		
SNP_80927_A_215021	NW_004516087.1	scaffold674	215021	AA	GG	GG	INTERGENIC		
SNP_80928_A_219128	NW_004516087.1	scaffold674	219128	GG	AA	AA	INTERGENIC		
SNP_80929_A_219972	NW_004516087.1	scaffold674	219972	GG	AA	AA	INTERGENIC		
SNP_80930_A_221205	NW_004516087.1	scaffold674	221205	TT	CC	CC	INTERGENIC		
SNP_80931_A_224776	NW_004516087.1	scaffold674	224776	AA	GG	GG	INTERGENIC		
SNP_80933_A_229584	NW_004516087.1	scaffold674	229584	AA	TT	TT	INTERGENIC		
SNP_80934_A_231530	NW_004516087.1	scaffold674	231530	GG	AA	AA	INTERGENIC		
SNP_80936_A_237964	NW_004516087.1	scaffold674	237964	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80937_A_243105	NW_004516087.1	scaffold674	243105	CC	AA	AA	INTERGENIC		
SNP_80938_A_243672	NW_004516087.1	scaffold674	243672	TT	CC	CC	INTERGENIC		
SNP_80939_A_247673	NW_004516087.1	scaffold674	247673	GG	CC	CC	INTERGENIC		
SNP_80941_A_250220	NW_004516087.1	scaffold674	250220	AA	GG	GG	INTERGENIC		
SNP_80942_A_257299	NW_004516087.1	scaffold674	257299	TT	AA	AA	INTERGENIC		
SNP_80943_A_260965	NW_004516087.1	scaffold674	260965	GG	AA	AA	INTERGENIC		
SNP_80945_A_264848	NW_004516087.1	scaffold674	264848	GG	TT	TT	INTRON	101493074	vacuolar amino acid transporter 1-like
SNP_80946_A_270266	NW_004516087.1	scaffold674	270266	CC	AA	AA	INTRON	101493074	vacuolar amino acid transporter 1-like
SNP_80947_A_280782	NW_004516087.1	scaffold674	280782	CC	TT	TT	INTERGENIC		
SNP_80948_A_291060	NW_004516087.1	scaffold674	291060	CC	TT	TT	INTERGENIC		
SNP_80949_A_291218	NW_004516087.1	scaffold674	291218	TT	AA	AA	INTERGENIC		
SNP_80950_A_293317	NW_004516087.1	scaffold674	293317	AA	GG	GG	INTERGENIC		
SNP_80951_A_310164	NW_004516087.1	scaffold674	310164	TT	AA	AA	INTERGENIC		
SNP_80952_A_312408	NW_004516087.1	scaffold674	312408	TT	CC	CC	DRR	101493400	thioredoxin-like 3-2, chloroplastic
SNP_80954_A_316532	NW_004516087.1	scaffold674	316532	CC	TT	TT	INTRON	101493400	thioredoxin-like 3-2, chloroplastic
SNP_80955_A_319654	NW_004516087.1	scaffold674	319654	CC	TT	TT	INTRON	101493400	thioredoxin-like 3-2, chloroplastic
SNP_80956_A_339680	NW_004516087.1	scaffold674	339680	CC	TT	TT	INTERGENIC		
SNP_80958_A_363679	NW_004516087.1	scaffold674	363679	GG	CC	CC	INTERGENIC		
SNP_80959_A_369743	NW_004516087.1	scaffold674	369743	CC	TT	TT	INTERGENIC		
SNP_80960_A_369797	NW_004516087.1	scaffold674	369797	TT	CC	CC	INTERGENIC		
SNP_80961_A_372015	NW_004516087.1	scaffold674	372015	AA	GG	GG	INTERGENIC		
SNP_80962_A_373198	NW_004516087.1	scaffold674	373198	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_80963_A_377802	NW_004516087.1	scaffold674	377802	TT	CC	CC	INTERGENIC			
SNP_80964_A_378816	NW_004516087.1	scaffold674	378816	CC	AA	AA	INTERGENIC			
SNP_80965_A_392142	NW_004516087.1	scaffold674	392142	CC	TT	TT	INTERGENIC			
SNP_80968_A_396773	NW_004516087.1	scaffold674	396773	AA	GG	GG	INTERGENIC			
SNP_80970_A_400863	NW_004516087.1	scaffold674	400863	TT	CC	CC	INTERGENIC			
SNP_80971_A_400881	NW_004516087.1	scaffold674	400881	AA	GG	GG	INTERGENIC			
SNP_80972_A_400882	NW_004516087.1	scaffold674	400882	TT	CC	CC	INTERGENIC			
SNP_80973_A_401149	NW_004516087.1	scaffold674	401149	TT	CC	CC	INTERGENIC			
SNP_80974_A_401155	NW_004516087.1	scaffold674	401155	CC	TT	TT	INTERGENIC			
SNP_80975_A_401161	NW_004516087.1	scaffold674	401161	AA	TT	TT	INTERGENIC			
SNP_80976_A_401328	NW_004516087.1	scaffold674	401328	CC	AA	AA	INTERGENIC			
SNP_80977_A_401330	NW_004516087.1	scaffold674	401330	AA	CC	CC	INTERGENIC			
SNP_80978_A_401338	NW_004516087.1	scaffold674	401338	TT	GG	GG	INTERGENIC			
SNP_80979_A_401343	NW_004516087.1	scaffold674	401343	CC	AA	AA	INTERGENIC			
SNP_80980_A_401414	NW_004516087.1	scaffold674	401414	GG	TT	TT	INTERGENIC			
SNP_80981_A_401430	NW_004516087.1	scaffold674	401430	AA	GG	GG	INTERGENIC			
SNP_80983_A_401523	NW_004516087.1	scaffold674	401523	GG	TT	TT	INTERGENIC			
SNP_80985_A_405016	NW_004516087.1	scaffold674	405016	CC	AA	AA	INTERGENIC			
SNP_80986_A_405064	NW_004516087.1	scaffold674	405064	AA	TT	TT	INTERGENIC			
SNP_80987_A_405077	NW_004516087.1	scaffold674	405077	AA	GG	GG	INTERGENIC			
SNP_80988_A_410882	NW_004516087.1	scaffold674	410882	AA	TT	TT	INTERGENIC			
SNP_80989_A_416132	NW_004516087.1	scaffold674	416132	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_80990_A_426112	NW_004516087.1	scaffold674	426112	GG	AA	AA	INTERGENIC		
SNP_80991_A_426127	NW_004516087.1	scaffold674	426127	AA	TT	TT	INTERGENIC		
SNP_80992_A_426701	NW_004516087.1	scaffold674	426701	AA	GG	GG	INTERGENIC		
SNP_80993_A_430466	NW_004516087.1	scaffold674	430466	TT	GG	GG	INTERGENIC		
SNP_80994_A_431269	NW_004516087.1	scaffold674	431269	GG	TT	TT	INTERGENIC		
SNP_80995_A_431925	NW_004516087.1	scaffold674	431925	CC	TT	TT	INTERGENIC		
SNP_81000_A_446890	NW_004516087.1	scaffold674	446890	CC	GG	GG	INTERGENIC		
SNP_81001_A_459548	NW_004516087.1	scaffold674	459548	TT	CC	CC	INTRON	101499352	topless-related protein 4-like
SNP_81002_A_467056	NW_004516087.1	scaffold674	467056	TT	CC	CC	INTERGENIC		
SNP_81004_A_468811	NW_004516087.1	scaffold674	468811	GG	AA	AA	INTERGENIC		
SNP_81006_A_477977	NW_004516087.1	scaffold674	477977	TT	GG	GG	INTERGENIC		
SNP_81007_A_480184	NW_004516087.1	scaffold674	480184	CC	TT	TT	INTERGENIC		
SNP_81008_A_500787	NW_004516087.1	scaffold674	500787	TT	CC	CC	INTRON	101494768	probable sodium/metabolite cotransporter BASS4, chloroplastic
SNP_81009_A_500799	NW_004516087.1	scaffold674	500799	AA	TT	TT	INTRON	101494768	probable sodium/metabolite cotransporter BASS4, chloroplastic
SNP_81010_A_501688	NW_004516087.1	scaffold674	501688	GG	CC	CC	INTRON	101494768	probable sodium/metabolite cotransporter BASS4, chloroplastic
SNP_81011_A_502968	NW_004516087.1	scaffold674	502968	TT	CC	CC	INTRON	101494768	probable sodium/metabolite cotransporter BASS4, chloroplastic
SNP_81013_A_533405	NW_004516087.1	scaffold674	533405	GG	CC	CC	INTERGENIC		
SNP_81014_A_538749	NW_004516087.1	scaffold674	538749	GG	AA	AA	INTERGENIC		
SNP_81015_A_542702	NW_004516087.1	scaffold674	542702	AA	CC	CC	INTERGENIC		
SNP_81016_A_546615	NW_004516087.1	scaffold674	546615	AA	GG	GG	INTERGENIC		
SNP_81017_A_551525	NW_004516087.1	scaffold674	551525	GG	AA	AA	INTERGENIC		
SNP_81018_A_554910	NW_004516087.1	scaffold674	554910	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81020_A_587463	NW_004516087.1	scaffold674	587463	AA	TT	TT	INTERGENIC		
SNP_81021_A_591685	NW_004516087.1	scaffold674	591685	CC	TT	TT	INTERGENIC		
SNP_81022_A_594433	NW_004516087.1	scaffold674	594433	TT	CC	CC	DRR	101500318	uncharacterized LOC101500318
SNP_81023_A_604516	NW_004516087.1	scaffold674	604516	AA	GG	GG	DRR	101495099	bZIP transcription factor 60
SNP_81025_A_617727	NW_004516087.1	scaffold674	617727	CC	TT	TT	INTERGENIC		
SNP_81026_A_621435	NW_004516087.1	scaffold674	621435	TT	AA	AA	INTERGENIC		
SNP_81027_A_622221	NW_004516087.1	scaffold674	622221	TT	GG	GG	INTERGENIC		
SNP_81028_A_624934	NW_004516087.1	scaffold674	624934	GG	AA	AA	INTERGENIC		
SNP_81029_A_628195	NW_004516087.1	scaffold674	628195	TT	AA	AA	INTERGENIC		
SNP_81030_A_640600	NW_004516087.1	scaffold674	640600	CC	TT	TT	URR	101495429	condensin complex subunit 1
SNP_81031_A_645156	NW_004516087.1	scaffold674	645156	CC	TT	TT	INTERGENIC		
SNP_81032_A_649289	NW_004516087.1	scaffold674	649289	AA	GG	GG	INTERGENIC		
SNP_81033_A_651571	NW_004516087.1	scaffold674	651571	TT	GG	GG	INTERGENIC		
SNP_81034_A_657580	NW_004516087.1	scaffold674	657580	AA	GG	GG	INTERGENIC		
SNP_81035_A_657869	NW_004516087.1	scaffold674	657869	TT	GG	GG	INTERGENIC		
SNP_81036_A_659212	NW_004516087.1	scaffold674	659212	AA	GG	GG	INTERGENIC		
SNP_81037_A_664574	NW_004516087.1	scaffold674	664574	AA	GG	GG	INTERGENIC		
SNP_81038_A_665772	NW_004516087.1	scaffold674	665772	CC	TT	TT	INTERGENIC		
SNP_81039_A_668184	NW_004516087.1	scaffold674	668184	TT	CC	CC	INTERGENIC		
SNP_81040_A_672865	NW_004516087.1	scaffold674	672865	CC	AA	AA	INTERGENIC		
SNP_81041_A_690327	NW_004516087.1	scaffold674	690327	CC	TT	TT	INTERGENIC		
SNP_81042_A_703028	NW_004516087.1	scaffold674	703028	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81043_A_703029	NW_004516087.1	scaffold674	703029	CC	TT	TT	INTERGENIC		
SNP_81044_A_703062	NW_004516087.1	scaffold674	703062	GG	CC	CC	INTERGENIC		
SNP_81045_A_704835	NW_004516087.1	scaffold674	704835	TT	CC	CC	INTERGENIC		
SNP_81048_A_712080	NW_004516087.1	scaffold674	712080	AA	TT	TT	INTERGENIC		
SNP_81049_A_724175	NW_004516087.1	scaffold674	724175	CC	AA	AA	INTERGENIC		
SNP_81050_A_734179	NW_004516087.1	scaffold674	734179	AA	GG	GG	INTERGENIC		
SNP_81051_A_734878	NW_004516087.1	scaffold674	734878	GG	AA	AA	INTERGENIC		
SNP_81052_A_745843	NW_004516087.1	scaffold674	745843	CC	TT	TT	INTERGENIC		
SNP_81053_A_758291	NW_004516087.1	scaffold674	758291	AA	GG	GG	INTERGENIC		
SNP_81054_A_758461	NW_004516087.1	scaffold674	758461	GG	AA	AA	INTERGENIC		
SNP_81055_A_763195	NW_004516087.1	scaffold674	763195	AA	TT	TT	INTERGENIC		
SNP_81056_A_763196	NW_004516087.1	scaffold674	763196	AA	CC	CC	INTERGENIC		
SNP_81057_A_763753	NW_004516087.1	scaffold674	763753	TT	CC	CC	INTERGENIC		
SNP_81059_A_783802	NW_004516087.1	scaffold674	783802	TT	CC	CC	INTERGENIC		
SNP_81060_A_788777	NW_004516087.1	scaffold674	788777	GG	AA	AA	INTERGENIC		
SNP_81061_A_793392	NW_004516087.1	scaffold674	793392	TT	AA	AA	INTERGENIC		
SNP_81062_A_802308	NW_004516087.1	scaffold674	802308	CC	AA	AA	INTERGENIC		
SNP_81063_A_823333	NW_004516087.1	scaffold674	823333	CC	TT	TT	INTRON	101495762	cystathionine beta-lyase, chloroplast
SNP_81064_A_827159	NW_004516087.1	scaffold674	827159	AA	GG	GG	INTRON	101495762	cystathionine beta-lyase, chloroplast
SNP_81065_A_829548	NW_004516087.1	scaffold674	829548	CC	AA	AA	INTRON	101495762	cystathionine beta-lyase, chloroplast
SNP_81066_A_829590	NW_004516087.1	scaffold674	829590	AA	GG	GG	INTRON	101495762	cystathionine beta-lyase, chloroplast
SNP_81067_A_829682	NW_004516087.1	scaffold674	829682	TT	GG	GG	INTRON	101495762	cystathionine beta-lyase, chloroplast

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81068_A_829909	NW_004516087.1	scaffold674	829909	TT	CC	CC	INTRON	101495762	cystathionine beta-lyase, chloroplatic
SNP_81069_A_829918	NW_004516087.1	scaffold674	829918	CC	TT	TT	INTRON	101495762	cystathionine beta-lyase, chloroplatic
SNP_81070_A_829971	NW_004516087.1	scaffold674	829971	AA	GG	GG	INTRON	101495762	cystathionine beta-lyase, chloroplatic
SNP_81071_A_830023	NW_004516087.1	scaffold674	830023	TT	CC	CC	INTRON	101495762	cystathionine beta-lyase, chloroplatic
SNP_81072_A_830025	NW_004516087.1	scaffold674	830025	CC	AA	AA	INTRON	101495762	cystathionine beta-lyase, chloroplatic
SNP_81074_A_842070	NW_004516087.1	scaffold674	842070	CC	TT	TT	INTERGENIC		
SNP_81075_A_842370	NW_004516087.1	scaffold674	842370	CC	TT	TT	INTERGENIC		
SNP_81076_A_842845	NW_004516087.1	scaffold674	842845	CC	GG	GG	INTERGENIC		
SNP_81077_A_842934	NW_004516087.1	scaffold674	842934	TT	GG	GG	INTERGENIC		
SNP_81078_A_843199	NW_004516087.1	scaffold674	843199	TT	GG	GG	INTERGENIC		
SNP_81079_A_843201	NW_004516087.1	scaffold674	843201	TT	CC	CC	INTERGENIC		
SNP_81080_A_843280	NW_004516087.1	scaffold674	843280	TT	CC	CC	INTERGENIC		
SNP_81081_A_843281	NW_004516087.1	scaffold674	843281	AA	TT	TT	INTERGENIC		
SNP_81083_A_843851	NW_004516087.1	scaffold674	843851	CC	TT	TT	INTERGENIC		
SNP_81084_A_843892	NW_004516087.1	scaffold674	843892	CC	TT	TT	INTERGENIC		
SNP_81085_A_851867	NW_004516087.1	scaffold674	851867	GG	AA	AA	INTERGENIC		
SNP_81086_A_856002	NW_004516087.1	scaffold674	856002	GG	AA	AA	INTERGENIC		
SNP_81088_A_869828	NW_004516087.1	scaffold674	869828	CC	AA	AA	INTERGENIC		
SNP_81089_A_870990	NW_004516087.1	scaffold674	870990	CC	AA	AA	INTERGENIC		
SNP_81090_A_887726	NW_004516087.1	scaffold674	887726	TT	CC	CC	INTERGENIC		
SNP_81091_A_888054	NW_004516087.1	scaffold674	888054	AA	TT	TT	INTERGENIC		
SNP_81092_A_890243	NW_004516087.1	scaffold674	890243	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81093_A_890244	NW_004516087.1	scaffold674	890244	TT	AA	AA	INTERGENIC			
SNP_81094_A_890613	NW_004516087.1	scaffold674	890613	CC	TT	TT	INTERGENIC			
SNP_81095_A_890650	NW_004516087.1	scaffold674	890650	TT	CC	CC	INTERGENIC			
SNP_81096_A_890824	NW_004516087.1	scaffold674	890824	GG	AA	AA	INTERGENIC			
SNP_81097_A_891327	NW_004516087.1	scaffold674	891327	AA	GG	GG	INTERGENIC			
SNP_81098_A_891400	NW_004516087.1	scaffold674	891400	CC	TT	TT	INTERGENIC			
SNP_81099_A_891415	NW_004516087.1	scaffold674	891415	AA	TT	TT	INTERGENIC			
SNP_81100_A_891483	NW_004516087.1	scaffold674	891483	AA	TT	TT	INTERGENIC			
SNP_81101_A_891585	NW_004516087.1	scaffold674	891585	AA	TT	TT	INTERGENIC			
SNP_81102_A_897769	NW_004516087.1	scaffold674	897769	TT	AA	AA	INTERGENIC			
SNP_81103_A_898231	NW_004516087.1	scaffold674	898231	GG	CC	CC	INTERGENIC			
SNP_81104_A_898331	NW_004516087.1	scaffold674	898331	CC	TT	TT	INTERGENIC			
SNP_81105_A_898578	NW_004516087.1	scaffold674	898578	CC	TT	TT	INTERGENIC			
SNP_81106_A_301	NW_004516088.1	scaffold675	301	TT	CC	CC	INTERGENIC			
SNP_81107_A_526	NW_004516088.1	scaffold675	526	GG	TT	TT	INTERGENIC			
SNP_81108_A_15215	NW_004516088.1	scaffold675	15215	TT	CC	CC	INTERGENIC			
SNP_81109_A_15365	NW_004516088.1	scaffold675	15365	CC	TT	TT	INTERGENIC			
SNP_81110_A_15366	NW_004516088.1	scaffold675	15366	AA	GG	GG	INTERGENIC			
SNP_81111_A_15451	NW_004516088.1	scaffold675	15451	GG	TT	TT	INTERGENIC			
SNP_81112_A_15708	NW_004516088.1	scaffold675	15708	TT	CC	CC	INTERGENIC			
SNP_81113_A_15717	NW_004516088.1	scaffold675	15717	TT	AA	AA	INTERGENIC			
SNP_81114_A_15722	NW_004516088.1	scaffold675	15722	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81115_A_20284	NW_004516088.1	scaffold675	20284	AA	GG	GG	INTERGENIC			
SNP_81116_A_20342	NW_004516088.1	scaffold675	20342	TT	GG	GG	INTERGENIC			
SNP_81117_A_20343	NW_004516088.1	scaffold675	20343	AA	GG	GG	INTERGENIC			
SNP_81118_A_60650	NW_004516088.1	scaffold675	60650	AA	CC	CC	INTERGENIC			
SNP_81120_A_60940	NW_004516088.1	scaffold675	60940	CC	TT	TT	INTERGENIC			
SNP_81121_A_60951	NW_004516088.1	scaffold675	60951	TT	CC	CC	INTERGENIC			
SNP_81122_A_75369	NW_004516088.1	scaffold675	75369	AA	GG	GG	INTERGENIC			
SNP_81123_A_81615	NW_004516088.1	scaffold675	81615	CC	TT	TT	INTERGENIC			
SNP_81126_A_82138	NW_004516088.1	scaffold675	82138	CC	TT	TT	INTERGENIC			
SNP_81128_A_89675	NW_004516088.1	scaffold675	89675	TT	GG	GG	INTERGENIC			
SNP_81129_A_89697	NW_004516088.1	scaffold675	89697	TT	GG	GG	INTERGENIC			
SNP_81130_A_90075	NW_004516088.1	scaffold675	90075	CC	TT	TT	INTERGENIC			
SNP_81131_A_126133	NW_004516088.1	scaffold675	126133	CC	TT	TT	INTERGENIC			
SNP_81132_A_148180	NW_004516088.1	scaffold675	148180	CC	TT	TT	INTERGENIC			
SNP_81133_A_14121	NW_004516089.1	scaffold676	14121	TT	CC	CC	INTERGENIC			
SNP_81134_A_14252	NW_004516089.1	scaffold676	14252	CC	TT	TT	INTERGENIC			
SNP_81135_A_14401	NW_004516089.1	scaffold676	14401	AA	GG	GG	INTERGENIC			
SNP_81136_A_14505	NW_004516089.1	scaffold676	14505	GG	AA	AA	INTERGENIC			
SNP_81137_A_14525	NW_004516089.1	scaffold676	14525	AA	GG	GG	INTERGENIC			
SNP_81138_A_19218	NW_004516089.1	scaffold676	19218	CC	TT	TT	INTERGENIC			
SNP_81139_A_19428	NW_004516089.1	scaffold676	19428	GG	AA	AA	INTERGENIC			
SNP_81140_A_20142	NW_004516089.1	scaffold676	20142	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81141_A_20153	NW_004516089.1	scaffold676	20153	CC	TT	TT	INTERGENIC			
SNP_81142_A_20175	NW_004516089.1	scaffold676	20175	TT	AA	AA	INTERGENIC			
SNP_81143_A_27043	NW_004516089.1	scaffold676	27043	AA	GG	GG	INTERGENIC			
SNP_81144_A_27053	NW_004516089.1	scaffold676	27053	CC	AA	AA	INTERGENIC			
SNP_81145_A_50115	NW_004516089.1	scaffold676	50115	GG	TT	TT	INTERGENIC			
SNP_81146_A_50143	NW_004516089.1	scaffold676	50143	AA	CC	GG	INTERGENIC			
SNP_81147_A_50159	NW_004516089.1	scaffold676	50159	GG	CC	CC	INTERGENIC			
SNP_81148_A_50430	NW_004516089.1	scaffold676	50430	AA	CC	CC	INTERGENIC			
SNP_81149_A_50434	NW_004516089.1	scaffold676	50434	TT	CC	CC	INTERGENIC			
SNP_81150_A_50457	NW_004516089.1	scaffold676	50457	CC	GG	GG	INTERGENIC			
SNP_81151_A_50579	NW_004516089.1	scaffold676	50579	TT	CC	CC	INTERGENIC			
SNP_81152_A_50601	NW_004516089.1	scaffold676	50601	TT	GG	GG	INTERGENIC			
SNP_81153_A_50621	NW_004516089.1	scaffold676	50621	GG	CC	CC	INTERGENIC			
SNP_81154_A_50752	NW_004516089.1	scaffold676	50752	CC	GG	GG	INTERGENIC			
SNP_81155_A_51045	NW_004516089.1	scaffold676	51045	AA	GG	GG	INTERGENIC			
SNP_81156_A_52763	NW_004516089.1	scaffold676	52763	TT	AA	AA	INTERGENIC			
SNP_81157_A_52772	NW_004516089.1	scaffold676	52772	AA	CC	CC	INTERGENIC			
SNP_81158_A_53102	NW_004516089.1	scaffold676	53102	GG	AA	AA	INTERGENIC			
SNP_81159_A_53105	NW_004516089.1	scaffold676	53105	CC	TT	TT	INTERGENIC			
SNP_81160_A_54821	NW_004516089.1	scaffold676	54821	AA	GG	GG	INTERGENIC			
SNP_81161_A_55404	NW_004516089.1	scaffold676	55404	CC	AA	AA	INTERGENIC			
SNP_81162_A_55408	NW_004516089.1	scaffold676	55408	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81163_A_55774	NW_004516089.1	scaffold676	55774	TT	GG	GG	INTERGENIC			
SNP_81164_A_56144	NW_004516089.1	scaffold676	56144	CC	TT	TT	INTERGENIC			
SNP_81165_A_56173	NW_004516089.1	scaffold676	56173	GG	TT	TT	INTERGENIC			
SNP_81166_A_56315	NW_004516089.1	scaffold676	56315	GG	AA	AA	INTERGENIC			
SNP_81167_A_56323	NW_004516089.1	scaffold676	56323	AA	GG	GG	INTERGENIC			
SNP_81168_A_56448	NW_004516089.1	scaffold676	56448	GG	CC	CC	INTERGENIC			
SNP_81169_A_56554	NW_004516089.1	scaffold676	56554	TT	AA	AA	INTERGENIC			
SNP_81170_A_56637	NW_004516089.1	scaffold676	56637	TT	GG	GG	INTERGENIC			
SNP_81171_A_56696	NW_004516089.1	scaffold676	56696	GG	AA	AA	INTERGENIC			
SNP_81172_A_56702	NW_004516089.1	scaffold676	56702	TT	CC	CC	INTERGENIC			
SNP_81173_A_56754	NW_004516089.1	scaffold676	56754	AA	GG	GG	INTERGENIC			
SNP_81174_A_56857	NW_004516089.1	scaffold676	56857	AA	TT	TT	INTERGENIC			
SNP_81175_A_64160	NW_004516089.1	scaffold676	64160	TT	CC	CC	INTERGENIC			
SNP_81176_A_64254	NW_004516089.1	scaffold676	64254	CC	TT	TT	INTERGENIC			
SNP_81177_A_64258	NW_004516089.1	scaffold676	64258	AA	GG	GG	INTERGENIC			
SNP_81178_A_64302	NW_004516089.1	scaffold676	64302	GG	AA	AA	INTERGENIC			
SNP_81179_A_67170	NW_004516089.1	scaffold676	67170	AA	GG	GG	INTERGENIC			
SNP_81180_A_67206	NW_004516089.1	scaffold676	67206	CC	AA	AA	INTERGENIC			
SNP_81181_A_67213	NW_004516089.1	scaffold676	67213	GG	AA	AA	INTERGENIC			
SNP_81182_A_68638	NW_004516089.1	scaffold676	68638	AA	TT	TT	INTERGENIC			
SNP_81183_A_68745	NW_004516089.1	scaffold676	68745	CC	TT	TT	INTERGENIC			
SNP_81184_A_68760	NW_004516089.1	scaffold676	68760	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81185_A_68802	NW_004516089.1	scaffold676	68802	AA	GG	GG	INTERGENIC			
SNP_81186_A_69211	NW_004516089.1	scaffold676	69211	GG	AA	AA	INTERGENIC			
SNP_81187_A_69679	NW_004516089.1	scaffold676	69679	AA	GG	GG	INTERGENIC			
SNP_81188_A_69936	NW_004516089.1	scaffold676	69936	CC	TT	TT	INTERGENIC			
SNP_81189_A_71273	NW_004516089.1	scaffold676	71273	AA	GG	GG	INTERGENIC			
SNP_81190_A_72626	NW_004516089.1	scaffold676	72626	CC	TT	TT	INTERGENIC			
SNP_81191_A_72781	NW_004516089.1	scaffold676	72781	AA	TT	TT	INTERGENIC			
SNP_81192_A_72801	NW_004516089.1	scaffold676	72801	GG	AA	AA	INTERGENIC			
SNP_81193_A_73187	NW_004516089.1	scaffold676	73187	CC	TT	TT	INTERGENIC			
SNP_81194_A_73695	NW_004516089.1	scaffold676	73695	GG	AA	AA	INTERGENIC			
SNP_81195_A_73763	NW_004516089.1	scaffold676	73763	TT	CC	CC	INTERGENIC			
SNP_81196_A_73830	NW_004516089.1	scaffold676	73830	GG	AA	AA	INTERGENIC			
SNP_81197_A_73926	NW_004516089.1	scaffold676	73926	TT	CC	CC	INTERGENIC			
SNP_81198_A_74148	NW_004516089.1	scaffold676	74148	TT	AA	AA	INTERGENIC			
SNP_81199_A_74241	NW_004516089.1	scaffold676	74241	GG	AA	AA	INTERGENIC			
SNP_81200_A_74337	NW_004516089.1	scaffold676	74337	GG	TT	TT	INTERGENIC			
SNP_81201_A_74550	NW_004516089.1	scaffold676	74550	AA	GG	GG	INTERGENIC			
SNP_81202_A_74568	NW_004516089.1	scaffold676	74568	GG	AA	AA	INTERGENIC			
SNP_81203_A_74591	NW_004516089.1	scaffold676	74591	CC	AA	AA	INTERGENIC			
SNP_81204_A_74826	NW_004516089.1	scaffold676	74826	AA	GG	GG	INTERGENIC			
SNP_81205_A_77614	NW_004516089.1	scaffold676	77614	GG	CC	CC	INTERGENIC			
SNP_81206_A_77642	NW_004516089.1	scaffold676	77642	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81207_A_77733	NW_004516089.1	scaffold676	77733	CC	AA	AA	INTERGENIC			
SNP_81208_A_77776	NW_004516089.1	scaffold676	77776	CC	GG	GG	INTERGENIC			
SNP_81209_A_78006	NW_004516089.1	scaffold676	78006	CC	AA	AA	INTERGENIC			
SNP_81210_A_78015	NW_004516089.1	scaffold676	78015	TT	CC	CC	INTERGENIC			
SNP_81211_A_78061	NW_004516089.1	scaffold676	78061	GG	AA	AA	INTERGENIC			
SNP_81212_A_78078	NW_004516089.1	scaffold676	78078	AA	GG	GG	INTERGENIC			
SNP_81213_A_79622	NW_004516089.1	scaffold676	79622	AA	GG	GG	INTERGENIC			
SNP_81214_A_83992	NW_004516089.1	scaffold676	83992	AA	GG	GG	INTERGENIC			
SNP_81215_A_84058	NW_004516089.1	scaffold676	84058	CC	TT	TT	INTERGENIC			
SNP_81217_A_84091	NW_004516089.1	scaffold676	84091	GG	CC	CC	INTERGENIC			
SNP_81218_A_84140	NW_004516089.1	scaffold676	84140	TT	CC	CC	INTERGENIC			
SNP_81219_A_84311	NW_004516089.1	scaffold676	84311	GG	AA	AA	INTERGENIC			
SNP_81220_A_84313	NW_004516089.1	scaffold676	84313	CC	AA	AA	INTERGENIC			
SNP_81221_A_84373	NW_004516089.1	scaffold676	84373	AA	GG	GG	INTERGENIC			
SNP_81222_A_84427	NW_004516089.1	scaffold676	84427	GG	CC	CC	INTERGENIC			
SNP_81223_A_84428	NW_004516089.1	scaffold676	84428	TT	AA	AA	INTERGENIC			
SNP_81224_A_84495	NW_004516089.1	scaffold676	84495	GG	AA	AA	INTERGENIC			
SNP_81226_A_84582	NW_004516089.1	scaffold676	84582	AA	CC	CC	INTERGENIC			
SNP_81227_A_85299	NW_004516089.1	scaffold676	85299	CC	AA	AA	INTERGENIC			
SNP_81228_A_85310	NW_004516089.1	scaffold676	85310	TT	CC	CC	INTERGENIC			
SNP_81229_A_85319	NW_004516089.1	scaffold676	85319	GG	AA	AA	INTERGENIC			
SNP_81230_A_85380	NW_004516089.1	scaffold676	85380	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81231_A_85407	NW_004516089.1	scaffold676	85407	CC	TT	TT	INTERGENIC			
SNP_81232_A_85470	NW_004516089.1	scaffold676	85470	TT	GG	GG	INTERGENIC			
SNP_81233_A_85506	NW_004516089.1	scaffold676	85506	GG	AA	AA	INTERGENIC			
SNP_81234_A_85527	NW_004516089.1	scaffold676	85527	CC	TT	TT	INTERGENIC			
SNP_81235_A_85594	NW_004516089.1	scaffold676	85594	AA	TT	TT	INTERGENIC			
SNP_81236_A_85641	NW_004516089.1	scaffold676	85641	TT	CC	CC	INTERGENIC			
SNP_81237_A_85646	NW_004516089.1	scaffold676	85646	AA	TT	TT	INTERGENIC			
SNP_81238_A_86880	NW_004516089.1	scaffold676	86880	AA	GG	GG	INTERGENIC			
SNP_81239_A_86971	NW_004516089.1	scaffold676	86971	AA	CC	CC	INTERGENIC			
SNP_81240_A_87390	NW_004516089.1	scaffold676	87390	AA	GG	GG	INTERGENIC			
SNP_81241_A_89389	NW_004516089.1	scaffold676	89389	GG	AA	AA	INTERGENIC			
SNP_81242_A_89615	NW_004516089.1	scaffold676	89615	AA	CC	CC	INTERGENIC			
SNP_81243_A_90124	NW_004516089.1	scaffold676	90124	GG	AA	AA	INTERGENIC			
SNP_81244_A_90195	NW_004516089.1	scaffold676	90195	AA	TT	TT	INTERGENIC			
SNP_81245_A_90196	NW_004516089.1	scaffold676	90196	TT	AA	AA	INTERGENIC			
SNP_81246_A_90214	NW_004516089.1	scaffold676	90214	AA	GG	GG	INTERGENIC			
SNP_81247_A_90832	NW_004516089.1	scaffold676	90832	AA	TT	TT	INTERGENIC			
SNP_81248_A_91499	NW_004516089.1	scaffold676	91499	AA	TT	TT	INTERGENIC			
SNP_81249_A_91788	NW_004516089.1	scaffold676	91788	AA	TT	TT	INTERGENIC			
SNP_81250_A_93151	NW_004516089.1	scaffold676	93151	AA	TT	TT	INTERGENIC			
SNP_81251_A_93154	NW_004516089.1	scaffold676	93154	CC	TT	TT	INTERGENIC			
SNP_81252_A_93160	NW_004516089.1	scaffold676	93160	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81253_A_93619	NW_004516089.1	scaffold676	93619	AA	GG	GG	INTERGENIC			
SNP_81254_A_93785	NW_004516089.1	scaffold676	93785	AA	GG	GG	INTERGENIC			
SNP_81255_A_93795	NW_004516089.1	scaffold676	93795	CC	TT	TT	INTERGENIC			
SNP_81256_A_93812	NW_004516089.1	scaffold676	93812	GG	TT	TT	INTERGENIC			
SNP_81257_A_94066	NW_004516089.1	scaffold676	94066	AA	GG	GG	INTERGENIC			
SNP_81258_A_94067	NW_004516089.1	scaffold676	94067	AA	TT	TT	INTERGENIC			
SNP_81259_A_101053	NW_004516089.1	scaffold676	101053	TT	CC	CC	INTERGENIC			
SNP_81260_A_101212	NW_004516089.1	scaffold676	101212	CC	TT	TT	INTERGENIC			
SNP_81261_A_101249	NW_004516089.1	scaffold676	101249	TT	CC	CC	INTERGENIC			
SNP_81262_A_101282	NW_004516089.1	scaffold676	101282	TT	CC	CC	INTERGENIC			
SNP_81263_A_101485	NW_004516089.1	scaffold676	101485	GG	AA	AA	INTERGENIC			
SNP_81264_A_101530	NW_004516089.1	scaffold676	101530	TT	CC	CC	INTERGENIC			
SNP_81265_A_101549	NW_004516089.1	scaffold676	101549	CC	AA	AA	INTERGENIC			
SNP_81266_A_101599	NW_004516089.1	scaffold676	101599	CC	TT	TT	INTERGENIC			
SNP_81267_A_101601	NW_004516089.1	scaffold676	101601	AA	GG	GG	INTERGENIC			
SNP_81268_A_101607	NW_004516089.1	scaffold676	101607	CC	GG	GG	INTERGENIC			
SNP_81269_A_102370	NW_004516089.1	scaffold676	102370	TT	GG	GG	INTERGENIC			
SNP_81270_A_102470	NW_004516089.1	scaffold676	102470	TT	CC	CC	INTERGENIC			
SNP_81271_A_102483	NW_004516089.1	scaffold676	102483	GG	AA	AA	INTERGENIC			
SNP_81273_A_104264	NW_004516089.1	scaffold676	104264	GG	CC	CC	INTERGENIC			
SNP_81274_A_104286	NW_004516089.1	scaffold676	104286	TT	CC	CC	INTERGENIC			
SNP_81275_A_104291	NW_004516089.1	scaffold676	104291	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81276_A_104293	NW_004516089.1	scaffold676	104293	TT	AA	AA	INTERGENIC			
SNP_81278_A_105336	NW_004516089.1	scaffold676	105336	TT	CC	CC	INTERGENIC			
SNP_81279_A_105370	NW_004516089.1	scaffold676	105370	TT	CC	CC	INTERGENIC			
SNP_81280_A_105376	NW_004516089.1	scaffold676	105376	TT	CC	CC	INTERGENIC			
SNP_81281_A_105403	NW_004516089.1	scaffold676	105403	TT	GG	GG	INTERGENIC			
SNP_81282_A_109201	NW_004516089.1	scaffold676	109201	CC	GG	GG	INTERGENIC			
SNP_81283_A_110322	NW_004516089.1	scaffold676	110322	CC	AA	AA	INTERGENIC			
SNP_81284_A_110581	NW_004516089.1	scaffold676	110581	AA	GG	GG	INTERGENIC			
SNP_81285_A_110607	NW_004516089.1	scaffold676	110607	GG	TT	TT	INTERGENIC			
SNP_81286_A_112662	NW_004516089.1	scaffold676	112662	TT	CC	CC	INTERGENIC			
SNP_81287_A_112703	NW_004516089.1	scaffold676	112703	CC	AA	AA	INTERGENIC			
SNP_81288_A_113042	NW_004516089.1	scaffold676	113042	AA	CC	CC	INTERGENIC			
SNP_81289_A_113043	NW_004516089.1	scaffold676	113043	TT	CC	CC	INTERGENIC			
SNP_81290_A_119921	NW_004516089.1	scaffold676	119921	TT	GG	GG	INTERGENIC			
SNP_81291_A_121261	NW_004516089.1	scaffold676	121261	AA	TT	TT	INTERGENIC			
SNP_81292_A_134645	NW_004516089.1	scaffold676	134645	GG	TT	TT	INTERGENIC			
SNP_81293_A_136176	NW_004516089.1	scaffold676	136176	AA	GG	GG	INTERGENIC			
SNP_81294_A_137008	NW_004516089.1	scaffold676	137008	AA	GG	GG	INTERGENIC			
SNP_81295_A_137048	NW_004516089.1	scaffold676	137048	AA	TT	TT	INTERGENIC			
SNP_81296_A_137119	NW_004516089.1	scaffold676	137119	TT	CC	CC	INTERGENIC			
SNP_81297_A_137324	NW_004516089.1	scaffold676	137324	AA	GG	GG	INTERGENIC			
SNP_81298_A_137329	NW_004516089.1	scaffold676	137329	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81299_A_137330	NW_004516089.1	scaffold676	137330	CC	AA	AA	INTERGENIC			
SNP_81300_A_137416	NW_004516089.1	scaffold676	137416	AA	GG	GG	INTERGENIC			
SNP_81301_A_137440	NW_004516089.1	scaffold676	137440	AA	TT	TT	INTERGENIC			
SNP_81302_A_138668	NW_004516089.1	scaffold676	138668	CC	GG	GG	INTERGENIC			
SNP_81303_A_149226	NW_004516089.1	scaffold676	149226	TT	GG	GG	INTERGENIC			
SNP_81304_A_149236	NW_004516089.1	scaffold676	149236	CC	AA	AA	INTERGENIC			
SNP_81305_A_149267	NW_004516089.1	scaffold676	149267	AA	TT	TT	INTERGENIC			
SNP_81306_A_149367	NW_004516089.1	scaffold676	149367	GG	AA	AA	INTERGENIC			
SNP_81307_A_149434	NW_004516089.1	scaffold676	149434	AA	GG	GG	INTERGENIC			
SNP_81309_A_151856	NW_004516089.1	scaffold676	151856	AA	GG	GG	INTERGENIC			
SNP_81310_A_151885	NW_004516089.1	scaffold676	151885	CC	AA	AA	INTERGENIC			
SNP_81311_A_151948	NW_004516089.1	scaffold676	151948	GG	AA	AA	INTERGENIC			
SNP_81312_A_152014	NW_004516089.1	scaffold676	152014	TT	AA	AA	INTERGENIC			
SNP_81313_A_152074	NW_004516089.1	scaffold676	152074	TT	CC	CC	INTERGENIC			
SNP_81314_A_157969	NW_004516089.1	scaffold676	157969	AA	CC	CC	INTERGENIC			
SNP_81315_A_158137	NW_004516089.1	scaffold676	158137	TT	AA	AA	INTERGENIC			
SNP_81316_A_158435	NW_004516089.1	scaffold676	158435	GG	CC	CC	INTERGENIC			
SNP_81317_A_158689	NW_004516089.1	scaffold676	158689	TT	CC	CC	INTERGENIC			
SNP_81318_A_161921	NW_004516089.1	scaffold676	161921	CC	TT	TT	INTERGENIC			
SNP_81319_A_161942	NW_004516089.1	scaffold676	161942	TT	CC	CC	INTERGENIC			
SNP_81320_A_161954	NW_004516089.1	scaffold676	161954	TT	AA	AA	INTERGENIC			
SNP_81321_A_2151	NW_004516090.1	scaffold677	2151	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81322_A_1284	NW_004516091.1	scaffold678	1284	GG	AA	AA	INTERGENIC			
SNP_81323_A_8682	NW_004516091.1	scaffold678	8682	GG	CC	CC	INTERGENIC			
SNP_81324_A_12414	NW_004516091.1	scaffold678	12414	TT	AA	AA	INTERGENIC			
SNP_81325_A_12424	NW_004516091.1	scaffold678	12424	GG	AA	AA	INTERGENIC			
SNP_81326_A_12451	NW_004516091.1	scaffold678	12451	AA	TT	TT	INTERGENIC			
SNP_81327_A_12476	NW_004516091.1	scaffold678	12476	TT	AA	AA	INTERGENIC			
SNP_81328_A_12738	NW_004516091.1	scaffold678	12738	AA	CC	CC	INTERGENIC			
SNP_81329_A_12768	NW_004516091.1	scaffold678	12768	AA	CC	CC	INTERGENIC			
SNP_81331_A_12842	NW_004516091.1	scaffold678	12842	TT	CC	CC	INTERGENIC			
SNP_81333_A_15238	NW_004516091.1	scaffold678	15238	CC	TT	TT	INTERGENIC			
SNP_81334_A_21920	NW_004516091.1	scaffold678	21920	AA	TT	TT	INTERGENIC			
SNP_81335_A_25927	NW_004516091.1	scaffold678	25927	TT	GG	GG	INTERGENIC			
SNP_81336_A_28765	NW_004516091.1	scaffold678	28765	AA	GG	GG	INTERGENIC			
SNP_81337_A_39277	NW_004516091.1	scaffold678	39277	AA	GG	GG	INTERGENIC			
SNP_81338_A_39285	NW_004516091.1	scaffold678	39285	CC	TT	TT	INTERGENIC			
SNP_81339_A_39297	NW_004516091.1	scaffold678	39297	AA	TT	TT	INTERGENIC			
SNP_81340_A_39415	NW_004516091.1	scaffold678	39415	GG	AA	AA	INTERGENIC			
SNP_81341_A_39507	NW_004516091.1	scaffold678	39507	AA	GG	GG	INTERGENIC			
SNP_81342_A_39552	NW_004516091.1	scaffold678	39552	GG	AA	AA	INTERGENIC			
SNP_81343_A_39565	NW_004516091.1	scaffold678	39565	CC	TT	TT	INTERGENIC			
SNP_81344_A_39571	NW_004516091.1	scaffold678	39571	GG	AA	AA	INTERGENIC			
SNP_81345_A_39572	NW_004516091.1	scaffold678	39572	CC	GG	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81346_A_39595	NW_004516091.1	scaffold678	39595	CC	AA	AA	INTERGENIC			
SNP_81347_A_39612	NW_004516091.1	scaffold678	39612	CC	AA	AA	INTERGENIC			
SNP_81348_A_39627	NW_004516091.1	scaffold678	39627	TT	GG	GG	INTERGENIC			
SNP_81349_A_39632	NW_004516091.1	scaffold678	39632	AA	TT	TT	INTERGENIC			
SNP_81350_A_39643	NW_004516091.1	scaffold678	39643	GG	TT	TT	INTERGENIC			
SNP_81351_A_39719	NW_004516091.1	scaffold678	39719	CC	AA	AA	INTERGENIC			
SNP_81352_A_39729	NW_004516091.1	scaffold678	39729	AA	GG	GG	INTERGENIC			
SNP_81354_A_39843	NW_004516091.1	scaffold678	39843	GG	AA	AA	INTERGENIC			
SNP_81355_A_39860	NW_004516091.1	scaffold678	39860	CC	TT	TT	INTERGENIC			
SNP_81357_A_40897	NW_004516091.1	scaffold678	40897	TT	CC	CC	INTERGENIC			
SNP_81358_A_40993	NW_004516091.1	scaffold678	40993	TT	CC	CC	INTERGENIC			
SNP_81360_A_41024	NW_004516091.1	scaffold678	41024	AA	CC	CC	INTERGENIC			
SNP_81361_A_41059	NW_004516091.1	scaffold678	41059	AA	TT	TT	INTERGENIC			
SNP_81363_A_41124	NW_004516091.1	scaffold678	41124	AA	TT	TT	INTERGENIC			
SNP_81364_A_41129	NW_004516091.1	scaffold678	41129	AA	GG	GG	INTERGENIC			
SNP_81365_A_41215	NW_004516091.1	scaffold678	41215	GG	CC	CC	INTERGENIC			
SNP_81366_A_41269	NW_004516091.1	scaffold678	41269	AA	TT	TT	INTERGENIC			
SNP_81367_A_41323	NW_004516091.1	scaffold678	41323	GG	AA	AA	INTERGENIC			
SNP_81368_A_42352	NW_004516091.1	scaffold678	42352	GG	AA	AA	INTERGENIC			
SNP_81369_A_42356	NW_004516091.1	scaffold678	42356	TT	AA	AA	INTERGENIC			
SNP_81370_A_42370	NW_004516091.1	scaffold678	42370	CC	AA	AA	INTERGENIC			
SNP_81372_A_42476	NW_004516091.1	scaffold678	42476	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81373_A_42533	NW_004516091.1	scaffold678	42533	TT	CC	CC	INTERGENIC		
SNP_81374_A_42704	NW_004516091.1	scaffold678	42704	TT	AA	AA	INTERGENIC		
SNP_81375_A_49378	NW_004516091.1	scaffold678	49378	CC	TT	TT	INTERGENIC		
SNP_81376_A_69701	NW_004516091.1	scaffold678	69701	CC	AA	AA	INTERGENIC		
SNP_81378_A_76790	NW_004516091.1	scaffold678	76790	AA	GG	GG	INTERGENIC		
SNP_81379_A_85509	NW_004516091.1	scaffold678	85509	AA	GG	GG	INTERGENIC		
SNP_81380_A_93793	NW_004516091.1	scaffold678	93793	GG	AA	AA	INTERGENIC		
SNP_81381_A_108274	NW_004516091.1	scaffold678	108274	AA	GG	GG	INTERGENIC		
SNP_81382_A_111192	NW_004516091.1	scaffold678	111192	GG	TT	TT	INTERGENIC		
SNP_81383_A_112617	NW_004516091.1	scaffold678	112617	TT	AA	AA	INTERGENIC		
SNP_81384_A_112904	NW_004516091.1	scaffold678	112904	AA	GG	GG	INTERGENIC		
SNP_81385_A_113486	NW_004516091.1	scaffold678	113486	GG	AA	AA	INTERGENIC		
SNP_81386_A_118119	NW_004516091.1	scaffold678	118119	CC	TT	TT	URR	101503488	uncharacterized LOC101503488
SNP_81387_A_119849	NW_004516091.1	scaffold678	119849	GG	AA	AA	INTERGENIC		
SNP_81388_A_120535	NW_004516091.1	scaffold678	120535	CC	TT	TT	INTERGENIC		
SNP_81389_A_120536	NW_004516091.1	scaffold678	120536	AA	GG	GG	INTERGENIC		
SNP_81390_A_120541	NW_004516091.1	scaffold678	120541	TT	CC	CC	INTERGENIC		
SNP_81391_A_127572	NW_004516091.1	scaffold678	127572	AA	GG	GG	INTERGENIC		
SNP_81392_A_127573	NW_004516091.1	scaffold678	127573	GG	AA	AA	INTERGENIC		
SNP_81393_A_127588	NW_004516091.1	scaffold678	127588	GG	AA	AA	INTERGENIC		
SNP_81394_A_127622	NW_004516091.1	scaffold678	127622	AA	GG	GG	INTERGENIC		
SNP_81395_A_4523	NW_004516093.1	scaffold681	4523	AA	GG	GG	INTRON	101504142	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81396_A_11748	NW_004516093.1	scaffold681	11748	TT	CC	CC	INTERGENIC			
SNP_81397_A_12141	NW_004516093.1	scaffold681	12141	TT	CC	CC	INTERGENIC			
SNP_81398_A_48207	NW_004516093.1	scaffold681	48207	TT	GG	GG	INTERGENIC			
SNP_81399_A_50098	NW_004516093.1	scaffold681	50098	TT	CC	CC	INTERGENIC			
SNP_81400_A_51604	NW_004516093.1	scaffold681	51604	AA	GG	GG	INTERGENIC			
SNP_81401_A_9405	NW_004516094.1	scaffold682	9405	AA	CC	CC	INTERGENIC			
SNP_81402_A_9781	NW_004516094.1	scaffold682	9781	TT	GG	GG	INTERGENIC			
SNP_81403_A_11167	NW_004516094.1	scaffold682	11167	TT	AA	AA	INTERGENIC			
SNP_81404_A_11205	NW_004516094.1	scaffold682	11205	CC	AA	AA	INTERGENIC			
SNP_81405_A_18614	NW_004516094.1	scaffold682	18614	CC	TT	TT	INTERGENIC			
SNP_81406_A_23654	NW_004516094.1	scaffold682	23654	CC	TT	TT	INTERGENIC			
SNP_81407_A_24268	NW_004516094.1	scaffold682	24268	CC	TT	TT	INTERGENIC			
SNP_81408_A_77940	NW_004516094.1	scaffold682	77940	TT	CC	CC	INTERGENIC			
SNP_81409_A_77945	NW_004516094.1	scaffold682	77945	TT	GG	GG	INTERGENIC			
SNP_81410_A_78414	NW_004516094.1	scaffold682	78414	CC	TT	TT	INTERGENIC			
SNP_81411_A_78632	NW_004516094.1	scaffold682	78632	GG	AA	AA	INTERGENIC			
SNP_81412_A_78682	NW_004516094.1	scaffold682	78682	TT	AA	AA	INTERGENIC			
SNP_81413_A_82838	NW_004516094.1	scaffold682	82838	TT	GG	GG	INTERGENIC			
SNP_81414_A_82855	NW_004516094.1	scaffold682	82855	AA	GG	GG	INTERGENIC			
SNP_81415_A_134678	NW_004516094.1	scaffold682	134678	GG	AA	AA	INTERGENIC			
SNP_81416_A_182726	NW_004516094.1	scaffold682	182726	TT	AA	AA	NON_SYNONYMOUS_CODING	101508844		Unknown function
SNP_81417_A_182729	NW_004516094.1	scaffold682	182729	TT	GG	GG	NON_SYNONYMOUS_CODING	101508844		Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81419_A_208669	NW_004516094.1	scaffold682	208669	CC	AA	AA	INTERGENIC			
SNP_81420_A_208974	NW_004516094.1	scaffold682	208974	GG	AA	AA	INTERGENIC			
SNP_81421_A_220216	NW_004516094.1	scaffold682	220216	CC	AA	AA	INTERGENIC			
SNP_81422_A_220250	NW_004516094.1	scaffold682	220250	TT	CC	CC	INTERGENIC			
SNP_81423_A_220265	NW_004516094.1	scaffold682	220265	TT	GG	GG	INTERGENIC			
SNP_81424_A_220270	NW_004516094.1	scaffold682	220270	AA	GG	GG	INTERGENIC			
SNP_81425_A_220447	NW_004516094.1	scaffold682	220447	AA	GG	GG	INTERGENIC			
SNP_81426_A_223500	NW_004516094.1	scaffold682	223500	TT	AA	AA	INTERGENIC			
SNP_81427_A_225030	NW_004516094.1	scaffold682	225030	CC	AA	AA	INTERGENIC			
SNP_81428_A_225036	NW_004516094.1	scaffold682	225036	GG	TT	TT	INTERGENIC			
SNP_81429_A_225150	NW_004516094.1	scaffold682	225150	TT	CC	CC	INTERGENIC			
SNP_81430_A_225669	NW_004516094.1	scaffold682	225669	TT	AA	AA	INTERGENIC			
SNP_81431_A_232219	NW_004516094.1	scaffold682	232219	GG	TT	TT	INTERGENIC			
SNP_81432_A_232501	NW_004516094.1	scaffold682	232501	TT	CC	CC	INTERGENIC			
SNP_81433_A_232512	NW_004516094.1	scaffold682	232512	CC	AA	AA	INTERGENIC			
SNP_81434_A_239113	NW_004516094.1	scaffold682	239113	GG	CC	CC	INTERGENIC			
SNP_81435_A_239256	NW_004516094.1	scaffold682	239256	TT	CC	CC	INTERGENIC			
SNP_81437_A_239342	NW_004516094.1	scaffold682	239342	TT	CC	CC	INTERGENIC			
SNP_81438_A_239547	NW_004516094.1	scaffold682	239547	CC	TT	TT	INTERGENIC			
SNP_81439_A_239601	NW_004516094.1	scaffold682	239601	GG	AA	AA	INTERGENIC			
SNP_81440_A_240641	NW_004516094.1	scaffold682	240641	CC	GG	GG	INTERGENIC			
SNP_81441_A_240843	NW_004516094.1	scaffold682	240843	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81442_A_240901	NW_004516094.1	scaffold682	240901	AA	GG	GG	INTERGENIC			
SNP_81443_A_240932	NW_004516094.1	scaffold682	240932	AA	GG	GG	INTERGENIC			
SNP_81444_A_240943	NW_004516094.1	scaffold682	240943	GG	AA	AA	INTERGENIC			
SNP_81445_A_240952	NW_004516094.1	scaffold682	240952	TT	CC	CC	INTERGENIC			
SNP_81446_A_240953	NW_004516094.1	scaffold682	240953	AA	CC	CC	INTERGENIC			
SNP_81447_A_240973	NW_004516094.1	scaffold682	240973	TT	AA	AA	INTERGENIC			
SNP_81448_A_240987	NW_004516094.1	scaffold682	240987	TT	GG	GG	INTERGENIC			
SNP_81449_A_240997	NW_004516094.1	scaffold682	240997	CC	AA	AA	INTERGENIC			
SNP_81450_A_241038	NW_004516094.1	scaffold682	241038	CC	TT	TT	INTERGENIC			
SNP_81451_A_241058	NW_004516094.1	scaffold682	241058	GG	AA	AA	INTERGENIC			
SNP_81452_A_241085	NW_004516094.1	scaffold682	241085	AA	TT	TT	INTERGENIC			
SNP_81453_A_241117	NW_004516094.1	scaffold682	241117	TT	GG	GG	INTERGENIC			
SNP_81454_A_252676	NW_004516094.1	scaffold682	252676	TT	GG	GG	INTERGENIC			
SNP_81456_A_272380	NW_004516094.1	scaffold682	272380	AA	GG	GG	INTERGENIC			
SNP_81458_A_347951	NW_004516094.1	scaffold682	347951	TT	CC	CC	INTERGENIC			
SNP_81459_A_347962	NW_004516094.1	scaffold682	347962	AA	GG	GG	INTERGENIC			
SNP_81460_A_365422	NW_004516094.1	scaffold682	365422	GG	AA	AA	INTERGENIC			
SNP_81461_A_369549	NW_004516094.1	scaffold682	369549	GG	AA	AA	INTERGENIC			
SNP_81462_A_369799	NW_004516094.1	scaffold682	369799	AA	TT	TT	INTERGENIC			
SNP_81463_A_373682	NW_004516094.1	scaffold682	373682	GG	TT	TT	INTERGENIC			
SNP_81464_A_374913	NW_004516094.1	scaffold682	374913	TT	CC	CC	INTERGENIC			
SNP_81465_A_374974	NW_004516094.1	scaffold682	374974	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81466_A_375045	NW_004516094.1	scaffold682	375045	GG	AA	AA	INTERGENIC			
SNP_81467_A_375089	NW_004516094.1	scaffold682	375089	AA	GG	GG	INTERGENIC			
SNP_81469_A_375206	NW_004516094.1	scaffold682	375206	GG	AA	AA	INTERGENIC			
SNP_81470_A_432869	NW_004516094.1	scaffold682	432869	TT	CC	CC	INTERGENIC			
SNP_81471_A_444102	NW_004516094.1	scaffold682	444102	CC	TT	TT	INTERGENIC			
SNP_81472_A_463012	NW_004516094.1	scaffold682	463012	AA	TT	TT	INTERGENIC			
SNP_81473_A_463057	NW_004516094.1	scaffold682	463057	TT	CC	CC	INTERGENIC			
SNP_81474_A_463135	NW_004516094.1	scaffold682	463135	TT	CC	CC	INTERGENIC			
SNP_81475_A_463168	NW_004516094.1	scaffold682	463168	AA	GG	GG	INTERGENIC			
SNP_81476_A_463180	NW_004516094.1	scaffold682	463180	TT	CC	CC	INTERGENIC			
SNP_81477_A_463189	NW_004516094.1	scaffold682	463189	TT	CC	CC	INTERGENIC			
SNP_81478_A_463216	NW_004516094.1	scaffold682	463216	TT	CC	CC	INTERGENIC			
SNP_81479_A_463249	NW_004516094.1	scaffold682	463249	TT	CC	CC	INTERGENIC			
SNP_81480_A_463261	NW_004516094.1	scaffold682	463261	TT	AA	AA	INTERGENIC			
SNP_81481_A_463264	NW_004516094.1	scaffold682	463264	GG	AA	AA	INTERGENIC			
SNP_81482_A_463273	NW_004516094.1	scaffold682	463273	CC	TT	TT	INTERGENIC			
SNP_81483_A_463297	NW_004516094.1	scaffold682	463297	AA	GG	GG	INTERGENIC			
SNP_81484_A_466973	NW_004516094.1	scaffold682	466973	TT	CC	CC	INTERGENIC			
SNP_81485_A_468067	NW_004516094.1	scaffold682	468067	AA	TT	TT	INTERGENIC			
SNP_81486_A_468082	NW_004516094.1	scaffold682	468082	CC	TT	TT	INTERGENIC			
SNP_81487_A_498473	NW_004516094.1	scaffold682	498473	TT	CC	CC	INTERGENIC			
SNP_81488_A_498546	NW_004516094.1	scaffold682	498546	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81489_A_506149	NW_004516094.1	scaffold682	506149	CC	GG	GG	INTERGENIC		
SNP_81490_A_506158	NW_004516094.1	scaffold682	506158	CC	AA	AA	INTERGENIC		
SNP_81492_A_510343	NW_004516094.1	scaffold682	510343	TT	CC	CC	INTERGENIC		
SNP_81493_A_518826	NW_004516094.1	scaffold682	518826	GG	TT	TT	INTERGENIC		
SNP_81494_A_524563	NW_004516094.1	scaffold682	524563	AA	GG	GG	INTERGENIC		
SNP_81495_A_524576	NW_004516094.1	scaffold682	524576	GG	AA	AA	INTERGENIC		
SNP_81496_A_524611	NW_004516094.1	scaffold682	524611	TT	CC	CC	INTERGENIC		
SNP_81497_A_525737	NW_004516094.1	scaffold682	525737	AA	GG	GG	INTERGENIC		
SNP_81498_A_525770	NW_004516094.1	scaffold682	525770	AA	CC	CC	INTERGENIC		
SNP_81499_A_525831	NW_004516094.1	scaffold682	525831	GG	AA	AA	INTERGENIC		
SNP_81500_A_526564	NW_004516094.1	scaffold682	526564	AA	CC	CC	INTERGENIC		
SNP_81501_A_526903	NW_004516094.1	scaffold682	526903	TT	GG	GG	INTERGENIC		
SNP_81502_A_526935	NW_004516094.1	scaffold682	526935	GG	AA	AA	INTERGENIC		
SNP_81503_A_526976	NW_004516094.1	scaffold682	526976	AA	GG	GG	INTERGENIC		
SNP_81504_A_526998	NW_004516094.1	scaffold682	526998	AA	GG	GG	INTERGENIC		
SNP_81505_A_527001	NW_004516094.1	scaffold682	527001	TT	AA	AA	INTERGENIC		
SNP_81506_A_527028	NW_004516094.1	scaffold682	527028	CC	TT	TT	INTERGENIC		
SNP_81507_A_527030	NW_004516094.1	scaffold682	527030	GG	TT	TT	INTERGENIC		
SNP_81508_A_527037	NW_004516094.1	scaffold682	527037	AA	GG	GG	INTERGENIC		
SNP_81509_A_536213	NW_004516094.1	scaffold682	536213	TT	CC	CC	INTERGENIC		
SNP_81510_A_539823	NW_004516094.1	scaffold682	539823	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81511_A_539838	NW_004516094.1	scaffold682	539838	AA	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81512_A_539839	NW_004516094.1	scaffold682	539839	GG	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81513_A_539849	NW_004516094.1	scaffold682	539849	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81515_A_539945	NW_004516094.1	scaffold682	539945	GG	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81516_A_539961	NW_004516094.1	scaffold682	539961	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81517_A_539983	NW_004516094.1	scaffold682	539983	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81518_A_540071	NW_004516094.1	scaffold682	540071	CC	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81519_A_540093	NW_004516094.1	scaffold682	540093	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81520_A_540126	NW_004516094.1	scaffold682	540126	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81521_A_540141	NW_004516094.1	scaffold682	540141	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81522_A_540168	NW_004516094.1	scaffold682	540168	CC	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81523_A_540210	NW_004516094.1	scaffold682	540210	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81524_A_540221	NW_004516094.1	scaffold682	540221	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81525_A_540319	NW_004516094.1	scaffold682	540319	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81526_A_540388	NW_004516094.1	scaffold682	540388	CC	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81528_A_540476	NW_004516094.1	scaffold682	540476	TT	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81529_A_540483	NW_004516094.1	scaffold682	540483	TT	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81530_A_540491	NW_004516094.1	scaffold682	540491	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81531_A_540569	NW_004516094.1	scaffold682	540569	GG	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81532_A_540587	NW_004516094.1	scaffold682	540587	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81533_A_540634	NW_004516094.1	scaffold682	540634	TT	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81535_A_540841	NW_004516094.1	scaffold682	540841	TT	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81537_A_540851	NW_004516094.1	scaffold682	540851	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81538_A_540864	NW_004516094.1	scaffold682	540864	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81539_A_540897	NW_004516094.1	scaffold682	540897	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81540_A_540920	NW_004516094.1	scaffold682	540920	TT	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81541_A_540930	NW_004516094.1	scaffold682	540930	CC	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81542_A_541079	NW_004516094.1	scaffold682	541079	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81543_A_541106	NW_004516094.1	scaffold682	541106	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81544_A_541112	NW_004516094.1	scaffold682	541112	AA	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81545_A_541114	NW_004516094.1	scaffold682	541114	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81546_A_541153	NW_004516094.1	scaffold682	541153	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81547_A_541187	NW_004516094.1	scaffold682	541187	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81548_A_541213	NW_004516094.1	scaffold682	541213	CC	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81549_A_541270	NW_004516094.1	scaffold682	541270	TT	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81550_A_541362	NW_004516094.1	scaffold682	541362	GG	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81551_A_541439	NW_004516094.1	scaffold682	541439	AA	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81552_A_541441	NW_004516094.1	scaffold682	541441	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81553_A_541473	NW_004516094.1	scaffold682	541473	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81554_A_541499	NW_004516094.1	scaffold682	541499	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81555_A_541505	NW_004516094.1	scaffold682	541505	TT	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81556_A_541532	NW_004516094.1	scaffold682	541532	CC	TT	TT	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81557_A_541556	NW_004516094.1	scaffold682	541556	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81558_A_541591	NW_004516094.1	scaffold682	541591	TT	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81559_A_541624	NW_004516094.1	scaffold682	541624	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81560_A_541629	NW_004516094.1	scaffold682	541629	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81561_A_541678	NW_004516094.1	scaffold682	541678	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81562_A_541684	NW_004516094.1	scaffold682	541684	GG	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81563_A_541696	NW_004516094.1	scaffold682	541696	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81564_A_541712	NW_004516094.1	scaffold682	541712	GG	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81565_A_541730	NW_004516094.1	scaffold682	541730	AA	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81566_A_541750	NW_004516094.1	scaffold682	541750	AA	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81567_A_541752	NW_004516094.1	scaffold682	541752	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81568_A_541787	NW_004516094.1	scaffold682	541787	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81569_A_541840	NW_004516094.1	scaffold682	541840	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81570_A_541912	NW_004516094.1	scaffold682	541912	CC	GG	GG	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81571_A_541994	NW_004516094.1	scaffold682	541994	TT	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81572_A_542027	NW_004516094.1	scaffold682	542027	TT	CC	CC	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81573_A_542039	NW_004516094.1	scaffold682	542039	GG	AA	AA	INTRON	101507269	vacuolar protein sorting-associated protein 13A-like
SNP_81575_A_712	NW_004516095.1	scaffold683	712	GG	CC	CC	INTERGENIC		
SNP_81576_A_5883	NW_004516095.1	scaffold683	5883	TT	CC	CC	INTERGENIC		
SNP_81577_A_15737	NW_004516095.1	scaffold683	15737	TT	CC	CC	INTERGENIC		
SNP_81578_A_15758	NW_004516095.1	scaffold683	15758	CC	AA	AA	INTERGENIC		
SNP_81579_A_15985	NW_004516095.1	scaffold683	15985	AA	TT	TT	INTERGENIC		
SNP_81580_A_20404	NW_004516095.1	scaffold683	20404	TT	CC	CC	INTERGENIC		
SNP_81581_A_20409	NW_004516095.1	scaffold683	20409	AA	CC	CC	INTERGENIC		
SNP_81582_A_20479	NW_004516095.1	scaffold683	20479	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81583_A_20501	NW_004516095.1	scaffold683	20501	TT	CC	CC	INTERGENIC			
SNP_81584_A_20505	NW_004516095.1	scaffold683	20505	TT	GG	GG	INTERGENIC			
SNP_81585_A_20536	NW_004516095.1	scaffold683	20536	TT	GG	GG	INTERGENIC			
SNP_81586_A_20543	NW_004516095.1	scaffold683	20543	CC	GG	GG	INTERGENIC			
SNP_81587_A_20566	NW_004516095.1	scaffold683	20566	TT	CC	CC	INTERGENIC			
SNP_81588_A_20585	NW_004516095.1	scaffold683	20585	GG	AA	AA	INTERGENIC			
SNP_81589_A_20651	NW_004516095.1	scaffold683	20651	GG	TT	TT	INTERGENIC			
SNP_81590_A_20673	NW_004516095.1	scaffold683	20673	TT	AA	AA	INTERGENIC			
SNP_81592_A_20705	NW_004516095.1	scaffold683	20705	CC	GG	GG	INTERGENIC			
SNP_81593_A_20739	NW_004516095.1	scaffold683	20739	AA	TT	TT	INTERGENIC			
SNP_81594_A_20781	NW_004516095.1	scaffold683	20781	AA	GG	GG	INTERGENIC			
SNP_81595_A_20812	NW_004516095.1	scaffold683	20812	TT	GG	GG	INTERGENIC			
SNP_81596_A_20817	NW_004516095.1	scaffold683	20817	TT	CC	CC	INTERGENIC			
SNP_81597_A_20943	NW_004516095.1	scaffold683	20943	GG	TT	TT	INTERGENIC			
SNP_81598_A_20958	NW_004516095.1	scaffold683	20958	CC	TT	TT	INTERGENIC			
SNP_81599_A_21010	NW_004516095.1	scaffold683	21010	TT	CC	CC	INTERGENIC			
SNP_81600_A_25188	NW_004516095.1	scaffold683	25188	GG	TT	TT	INTERGENIC			
SNP_81601_A_25350	NW_004516095.1	scaffold683	25350	AA	TT	TT	INTERGENIC			
SNP_81603_A_25467	NW_004516095.1	scaffold683	25467	CC	TT	TT	INTERGENIC			
SNP_81604_A_25514	NW_004516095.1	scaffold683	25514	TT	CC	CC	INTERGENIC			
SNP_81605_A_25523	NW_004516095.1	scaffold683	25523	TT	AA	AA	INTERGENIC			
SNP_81606_A_25556	NW_004516095.1	scaffold683	25556	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81607_A_25558	NW_004516095.1	scaffold683	25558	AA	GG	GG	INTERGENIC			
SNP_81608_A_25559	NW_004516095.1	scaffold683	25559	GG	AA	AA	INTERGENIC			
SNP_81609_A_25882	NW_004516095.1	scaffold683	25882	AA	GG	GG	INTERGENIC			
SNP_81610_A_26178	NW_004516095.1	scaffold683	26178	AA	TT	TT	INTERGENIC			
SNP_81611_A_26194	NW_004516095.1	scaffold683	26194	TT	GG	GG	INTERGENIC			
SNP_81612_A_26217	NW_004516095.1	scaffold683	26217	AA	CC	CC	INTERGENIC			
SNP_81613_A_26238	NW_004516095.1	scaffold683	26238	AA	TT	TT	INTERGENIC			
SNP_81614_A_26247	NW_004516095.1	scaffold683	26247	TT	AA	AA	INTERGENIC			
SNP_81615_A_3403	NW_004516096.1	scaffold684	3403	TT	CC	CC	INTERGENIC			
SNP_81616_A_3409	NW_004516096.1	scaffold684	3409	AA	GG	GG	INTERGENIC			
SNP_81617_A_3443	NW_004516096.1	scaffold684	3443	AA	GG	GG	INTERGENIC			
SNP_81618_A_4704	NW_004516096.1	scaffold684	4704	AA	GG	GG	INTERGENIC			
SNP_81619_A_4880	NW_004516096.1	scaffold684	4880	TT	AA	AA	INTERGENIC			
SNP_81620_A_5158	NW_004516096.1	scaffold684	5158	TT	CC	CC	INTERGENIC			
SNP_81621_A_6954	NW_004516096.1	scaffold684	6954	GG	AA	AA	INTERGENIC			
SNP_81622_A_19225	NW_004516096.1	scaffold684	19225	AA	GG	GG	INTERGENIC			
SNP_81623_A_44241	NW_004516096.1	scaffold684	44241	TT	CC	CC	INTERGENIC			
SNP_81624_A_48352	NW_004516096.1	scaffold684	48352	CC	GG	GG	INTERGENIC			
SNP_81625_A_48386	NW_004516096.1	scaffold684	48386	TT	GG	GG	INTERGENIC			
SNP_81626_A_48643	NW_004516096.1	scaffold684	48643	GG	AA	AA	INTERGENIC			
SNP_81627_A_48665	NW_004516096.1	scaffold684	48665	CC	AA	AA	INTERGENIC			
SNP_81628_A_48666	NW_004516096.1	scaffold684	48666	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81629_A_72115	NW_004516096.1	scaffold684	72115	CC	TT	TT	INTERGENIC			
SNP_81630_A_94438	NW_004516096.1	scaffold684	94438	TT	CC	CC	INTERGENIC			
SNP_81631_A_81	NW_004516098.1	scaffold686	81	GG	AA	AA	INTERGENIC			
SNP_81632_A_171	NW_004516098.1	scaffold686	171	GG	AA	AA	INTERGENIC			
SNP_81633_A_458	NW_004516098.1	scaffold686	458	GG	AA	AA	INTERGENIC			
SNP_81634_A_618	NW_004516098.1	scaffold686	618	TT	AA	AA	INTERGENIC			
SNP_81635_A_740	NW_004516098.1	scaffold686	740	TT	AA	AA	INTERGENIC			
SNP_81636_A_751	NW_004516098.1	scaffold686	751	CC	TT	TT	INTERGENIC			
SNP_81637_A_769	NW_004516098.1	scaffold686	769	AA	CC	CC	INTERGENIC			
SNP_81638_A_772	NW_004516098.1	scaffold686	772	AA	TT	TT	INTERGENIC			
SNP_81639_A_783	NW_004516098.1	scaffold686	783	AA	GG	GG	INTERGENIC			
SNP_81640_A_789	NW_004516098.1	scaffold686	789	CC	TT	TT	INTERGENIC			
SNP_81641_A_25746	NW_004516098.1	scaffold686	25746	CC	GG	GG	INTERGENIC			
SNP_81642_A_60020	NW_004516098.1	scaffold686	60020	TT	CC	CC	INTERGENIC			
SNP_81643_A_60025	NW_004516098.1	scaffold686	60025	CC	TT	TT	INTERGENIC			
SNP_81644_A_60345	NW_004516098.1	scaffold686	60345	AA	TT	TT	INTERGENIC			
SNP_81645_A_74289	NW_004516098.1	scaffold686	74289	TT	CC	CC	INTERGENIC			
SNP_81646_A_79547	NW_004516098.1	scaffold686	79547	TT	GG	GG	INTERGENIC			
SNP_81647_A_85596	NW_004516098.1	scaffold686	85596	AA	CC	CC	INTERGENIC			
SNP_81648_A_90729	NW_004516098.1	scaffold686	90729	GG	TT	TT	INTERGENIC			
SNP_81649_A_90755	NW_004516098.1	scaffold686	90755	AA	GG	GG	INTERGENIC			
SNP_81650_A_90831	NW_004516098.1	scaffold686	90831	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81651_A_91078	NW_004516098.1	scaffold686	91078	TT	AA	AA	INTERGENIC			
SNP_81652_A_91092	NW_004516098.1	scaffold686	91092	TT	CC	CC	INTERGENIC			
SNP_81653_A_91129	NW_004516098.1	scaffold686	91129	CC	TT	TT	INTERGENIC			
SNP_81654_A_91211	NW_004516098.1	scaffold686	91211	AA	TT	TT	INTERGENIC			
SNP_81655_A_97553	NW_004516098.1	scaffold686	97553	GG	AA	AA	INTERGENIC			
SNP_81656_A_98291	NW_004516098.1	scaffold686	98291	AA	CC	CC	INTERGENIC			
SNP_81657_A_108158	NW_004516098.1	scaffold686	108158	CC	GG	GG	INTERGENIC			
SNP_81658_A_108353	NW_004516098.1	scaffold686	108353	CC	TT	TT	INTERGENIC			
SNP_81659_A_108784	NW_004516098.1	scaffold686	108784	GG	AA	AA	INTERGENIC			
SNP_81660_A_108924	NW_004516098.1	scaffold686	108924	AA	TT	TT	INTERGENIC			
SNP_81662_A_111876	NW_004516098.1	scaffold686	111876	CC	TT	TT	INTERGENIC			
SNP_81663_A_111924	NW_004516098.1	scaffold686	111924	GG	AA	AA	INTERGENIC			
SNP_81664_A_111936	NW_004516098.1	scaffold686	111936	GG	AA	AA	INTERGENIC			
SNP_81665_A_112355	NW_004516098.1	scaffold686	112355	CC	AA	AA	INTERGENIC			
SNP_81666_A_112398	NW_004516098.1	scaffold686	112398	AA	GG	GG	INTERGENIC			
SNP_81668_A_138491	NW_004516098.1	scaffold686	138491	GG	AA	AA	INTERGENIC			
SNP_81671_A_177848	NW_004516098.1	scaffold686	177848	CC	TT	TT	INTERGENIC			
SNP_81672_A_177896	NW_004516098.1	scaffold686	177896	AA	GG	GG	INTERGENIC			
SNP_81673_A_180087	NW_004516098.1	scaffold686	180087	AA	CC	CC	INTERGENIC			
SNP_81674_A_181199	NW_004516098.1	scaffold686	181199	TT	CC	CC	INTERGENIC			
SNP_81675_A_182141	NW_004516098.1	scaffold686	182141	CC	TT	TT	INTERGENIC			
SNP_81678_A_183542	NW_004516098.1	scaffold686	183542	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81679_A_183720	NW_004516098.1	scaffold686	183720	GG	TT	TT	INTERGENIC			
SNP_81681_A_186124	NW_004516098.1	scaffold686	186124	GG	CC	CC	INTERGENIC			
SNP_81682_A_186196	NW_004516098.1	scaffold686	186196	GG	AA	AA	INTERGENIC			
SNP_81683_A_186280	NW_004516098.1	scaffold686	186280	TT	GG	GG	INTERGENIC			
SNP_81684_A_186482	NW_004516098.1	scaffold686	186482	GG	TT	TT	INTERGENIC			
SNP_81685_A_216016	NW_004516098.1	scaffold686	216016	AA	GG	GG	INTERGENIC			
SNP_81686_A_216040	NW_004516098.1	scaffold686	216040	CC	TT	TT	INTERGENIC			
SNP_81687_A_216049	NW_004516098.1	scaffold686	216049	TT	CC	CC	INTERGENIC			
SNP_81688_A_216054	NW_004516098.1	scaffold686	216054	GG	AA	AA	INTERGENIC			
SNP_81689_A_216094	NW_004516098.1	scaffold686	216094	CC	TT	TT	INTERGENIC			
SNP_81690_A_216099	NW_004516098.1	scaffold686	216099	TT	CC	CC	INTERGENIC			
SNP_81691_A_216105	NW_004516098.1	scaffold686	216105	TT	CC	CC	INTERGENIC			
SNP_81692_A_216106	NW_004516098.1	scaffold686	216106	GG	AA	AA	INTERGENIC			
SNP_81694_A_216121	NW_004516098.1	scaffold686	216121	AA	GG	GG	INTERGENIC			
SNP_81695_A_216139	NW_004516098.1	scaffold686	216139	GG	AA	AA	INTERGENIC			
SNP_81696_A_216177	NW_004516098.1	scaffold686	216177	AA	GG	GG	INTERGENIC			
SNP_81697_A_216180	NW_004516098.1	scaffold686	216180	AA	TT	TT	INTERGENIC			
SNP_81698_A_216202	NW_004516098.1	scaffold686	216202	TT	AA	AA	INTERGENIC			
SNP_81699_A_216231	NW_004516098.1	scaffold686	216231	AA	GG	GG	INTERGENIC			
SNP_81701_A_216244	NW_004516098.1	scaffold686	216244	CC	TT	TT	INTERGENIC			
SNP_81702_A_216271	NW_004516098.1	scaffold686	216271	CC	TT	TT	INTERGENIC			
SNP_81703_A_216273	NW_004516098.1	scaffold686	216273	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81704_A_216275	NW_004516098.1	scaffold686	216275	CC	AA	AA	INTERGENIC			
SNP_81705_A_220971	NW_004516098.1	scaffold686	220971	GG	AA	AA	INTERGENIC			
SNP_81706_A_223469	NW_004516098.1	scaffold686	223469	AA	TT	TT	INTERGENIC			
SNP_81707_A_223750	NW_004516098.1	scaffold686	223750	TT	GG	GG	INTERGENIC			
SNP_81708_A_223753	NW_004516098.1	scaffold686	223753	AA	GG	GG	INTERGENIC			
SNP_81709_A_223773	NW_004516098.1	scaffold686	223773	CC	TT	TT	INTERGENIC			
SNP_81710_A_223790	NW_004516098.1	scaffold686	223790	GG	TT	TT	INTERGENIC			
SNP_81711_A_223801	NW_004516098.1	scaffold686	223801	CC	TT	TT	INTERGENIC			
SNP_81712_A_229622	NW_004516098.1	scaffold686	229622	CC	TT	TT	INTERGENIC			
SNP_81713_A_229628	NW_004516098.1	scaffold686	229628	AA	GG	GG	INTERGENIC			
SNP_81714_A_229652	NW_004516098.1	scaffold686	229652	TT	CC	CC	INTERGENIC			
SNP_81715_A_249798	NW_004516098.1	scaffold686	249798	GG	AA	AA	INTERGENIC			
SNP_81717_A_2434	NW_004516099.1	scaffold688	2434	GG	TT	TT	INTERGENIC			
SNP_81718_A_2646	NW_004516099.1	scaffold688	2646	AA	TT	TT	INTERGENIC			
SNP_81719_A_2678	NW_004516099.1	scaffold688	2678	AA	TT	TT	INTERGENIC			
SNP_81720_A_2732	NW_004516099.1	scaffold688	2732	AA	GG	GG	INTERGENIC			
SNP_81721_A_2967	NW_004516099.1	scaffold688	2967	GG	AA	AA	INTERGENIC			
SNP_81722_A_3001	NW_004516099.1	scaffold688	3001	TT	AA	AA	INTERGENIC			
SNP_81723_A_3058	NW_004516099.1	scaffold688	3058	CC	GG	GG	INTERGENIC			
SNP_81724_A_1670	NW_004516101.1	scaffold690	1670	TT	CC	CC	INTERGENIC			
SNP_81725_A_50539	NW_004516102.1	scaffold692	50539	CC	TT	TT	INTERGENIC			
SNP_81726_A_50639	NW_004516102.1	scaffold692	50639	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81727_A_50821	NW_004516102.1	scaffold692	50821	AA	CC	CC	INTERGENIC			
SNP_81728_A_50839	NW_004516102.1	scaffold692	50839	AA	TT	TT	INTERGENIC			
SNP_81730_A_68902	NW_004516102.1	scaffold692	68902	GG	AA	AA	INTERGENIC			
SNP_81731_A_83698	NW_004516102.1	scaffold692	83698	CC	TT	TT	INTERGENIC			
SNP_81732_A_83956	NW_004516102.1	scaffold692	83956	GG	TT	TT	INTERGENIC			
SNP_81733_A_1752	NW_004516103.1	scaffold693	1752	TT	CC	CC	INTERGENIC			
SNP_81734_A_97	NW_004516104.1	scaffold694	97	GG	TT	TT	INTERGENIC			
SNP_81735_A_270	NW_004516104.1	scaffold694	270	GG	AA	AA	INTERGENIC			
SNP_81736_A_305	NW_004516104.1	scaffold694	305	AA	TT	TT	INTERGENIC			
SNP_81737_A_307	NW_004516104.1	scaffold694	307	TT	CC	CC	INTERGENIC			
SNP_81738_A_312	NW_004516104.1	scaffold694	312	CC	TT	TT	INTERGENIC			
SNP_81739_A_338	NW_004516104.1	scaffold694	338	GG	AA	AA	INTERGENIC			
SNP_81740_A_401	NW_004516104.1	scaffold694	401	GG	AA	AA	INTERGENIC			
SNP_81741_A_420	NW_004516104.1	scaffold694	420	TT	CC	CC	INTERGENIC			
SNP_81742_A_438	NW_004516104.1	scaffold694	438	GG	CC	CC	INTERGENIC			
SNP_81743_A_454	NW_004516104.1	scaffold694	454	TT	CC	CC	INTERGENIC			
SNP_81744_A_501	NW_004516104.1	scaffold694	501	TT	GG	GG	INTERGENIC			
SNP_81745_A_505	NW_004516104.1	scaffold694	505	AA	GG	GG	INTERGENIC			
SNP_81746_A_2038	NW_004516104.1	scaffold694	2038	TT	CC	CC	INTERGENIC			
SNP_81747_A_2086	NW_004516104.1	scaffold694	2086	CC	TT	TT	INTERGENIC			
SNP_81748_A_4674	NW_004516104.1	scaffold694	4674	TT	CC	CC	INTERGENIC			
SNP_81749_A_4682	NW_004516104.1	scaffold694	4682	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81750_A_4865	NW_004516104.1	scaffold694	4865	AA	GG	GG	INTERGENIC			
SNP_81751_A_7147	NW_004516104.1	scaffold694	7147	CC	TT	TT	INTERGENIC			
SNP_81752_A_7182	NW_004516104.1	scaffold694	7182	CC	GG	GG	INTERGENIC			
SNP_81753_A_7233	NW_004516104.1	scaffold694	7233	TT	CC	CC	INTERGENIC			
SNP_81754_A_7280	NW_004516104.1	scaffold694	7280	AA	CC	CC	INTERGENIC			
SNP_81755_A_7282	NW_004516104.1	scaffold694	7282	CC	AA	AA	INTERGENIC			
SNP_81756_A_7296	NW_004516104.1	scaffold694	7296	GG	AA	AA	INTERGENIC			
SNP_81757_A_7371	NW_004516104.1	scaffold694	7371	TT	AA	AA	INTERGENIC			
SNP_81758_A_7392	NW_004516104.1	scaffold694	7392	AA	TT	TT	INTERGENIC			
SNP_81759_A_7397	NW_004516104.1	scaffold694	7397	GG	AA	AA	INTERGENIC			
SNP_81760_A_7415	NW_004516104.1	scaffold694	7415	CC	TT	TT	INTERGENIC			
SNP_81761_A_7451	NW_004516104.1	scaffold694	7451	GG	AA	AA	INTERGENIC			
SNP_81762_A_7459	NW_004516104.1	scaffold694	7459	GG	AA	AA	INTERGENIC			
SNP_81763_A_7470	NW_004516104.1	scaffold694	7470	TT	CC	CC	INTERGENIC			
SNP_81764_A_7477	NW_004516104.1	scaffold694	7477	TT	CC	CC	INTERGENIC			
SNP_81765_A_7478	NW_004516104.1	scaffold694	7478	CC	TT	TT	INTERGENIC			
SNP_81766_A_7550	NW_004516104.1	scaffold694	7550	AA	CC	CC	INTERGENIC			
SNP_81767_A_7582	NW_004516104.1	scaffold694	7582	AA	GG	GG	INTERGENIC			
SNP_81768_A_7660	NW_004516104.1	scaffold694	7660	TT	CC	CC	INTERGENIC			
SNP_81769_A_7684	NW_004516104.1	scaffold694	7684	AA	GG	GG	INTERGENIC			
SNP_81770_A_7698	NW_004516104.1	scaffold694	7698	TT	CC	CC	INTERGENIC			
SNP_81771_A_7714	NW_004516104.1	scaffold694	7714	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81772_A_7727	NW_004516104.1	scaffold694	7727	CC	TT	TT	INTERGENIC			
SNP_81773_A_7761	NW_004516104.1	scaffold694	7761	GG	CC	CC	INTERGENIC			
SNP_81774_A_7842	NW_004516104.1	scaffold694	7842	GG	TT	TT	INTERGENIC			
SNP_81775_A_7846	NW_004516104.1	scaffold694	7846	GG	AA	AA	INTERGENIC			
SNP_81776_A_8074	NW_004516104.1	scaffold694	8074	GG	AA	AA	INTERGENIC			
SNP_81777_A_8588	NW_004516104.1	scaffold694	8588	AA	TT	TT	INTERGENIC			
SNP_81778_A_9002	NW_004516104.1	scaffold694	9002	GG	AA	AA	INTERGENIC			
SNP_81779_A_9010	NW_004516104.1	scaffold694	9010	TT	CC	CC	INTERGENIC			
SNP_81780_A_9038	NW_004516104.1	scaffold694	9038	GG	AA	AA	INTERGENIC			
SNP_81781_A_9054	NW_004516104.1	scaffold694	9054	AA	TT	TT	INTERGENIC			
SNP_81782_A_9120	NW_004516104.1	scaffold694	9120	AA	GG	GG	INTERGENIC			
SNP_81783_A_9123	NW_004516104.1	scaffold694	9123	GG	TT	TT	INTERGENIC			
SNP_81784_A_9136	NW_004516104.1	scaffold694	9136	AA	GG	GG	INTERGENIC			
SNP_81785_A_9196	NW_004516104.1	scaffold694	9196	CC	TT	TT	INTERGENIC			
SNP_81786_A_9269	NW_004516104.1	scaffold694	9269	GG	TT	TT	INTERGENIC			
SNP_81787_A_9468	NW_004516104.1	scaffold694	9468	CC	TT	TT	INTERGENIC			
SNP_81788_A_9596	NW_004516104.1	scaffold694	9596	TT	AA	AA	INTERGENIC			
SNP_81789_A_9645	NW_004516104.1	scaffold694	9645	TT	CC	CC	INTERGENIC			
SNP_81790_A_64	NW_004516105.1	scaffold695	64	TT	CC	CC	INTERGENIC			
SNP_81791_A_80	NW_004516105.1	scaffold695	80	GG	AA	AA	INTERGENIC			
SNP_81792_A_82	NW_004516105.1	scaffold695	82	CC	TT	TT	INTERGENIC			
SNP_81793_A_84	NW_004516105.1	scaffold695	84	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81794_A_98	NW_004516105.1	scaffold695	98	GG	AA	AA	INTERGENIC			
SNP_81795_A_102	NW_004516105.1	scaffold695	102	GG	CC	CC	INTERGENIC			
SNP_81796_A_372	NW_004516105.1	scaffold695	372	GG	CC	CC	INTERGENIC			
SNP_81797_A_423	NW_004516105.1	scaffold695	423	TT	GG	GG	INTERGENIC			
SNP_81798_A_853	NW_004516105.1	scaffold695	853	AA	CC	CC	INTERGENIC			
SNP_81799_A_854	NW_004516105.1	scaffold695	854	TT	GG	GG	INTERGENIC			
SNP_81800_A_1201	NW_004516105.1	scaffold695	1201	TT	CC	CC	INTERGENIC			
SNP_81801_A_2076	NW_004516106.1	scaffold696	2076	TT	CC	CC	INTERGENIC			
SNP_81802_A_4597	NW_004516106.1	scaffold696	4597	AA	GG	GG	INTERGENIC			
SNP_81803_A_4611	NW_004516106.1	scaffold696	4611	CC	GG	GG	INTERGENIC			
SNP_81804_A_6295	NW_004516106.1	scaffold696	6295	CC	TT	TT	INTERGENIC			
SNP_81805_A_12342	NW_004516106.1	scaffold696	12342	AA	GG	GG	INTERGENIC			
SNP_81806_A_12705	NW_004516106.1	scaffold696	12705	CC	TT	TT	INTERGENIC			
SNP_81807_A_12802	NW_004516106.1	scaffold696	12802	GG	AA	AA	INTERGENIC			
SNP_81808_A_12836	NW_004516106.1	scaffold696	12836	TT	AA	AA	INTERGENIC			
SNP_81809_A_12845	NW_004516106.1	scaffold696	12845	AA	GG	GG	INTERGENIC			
SNP_81810_A_12875	NW_004516106.1	scaffold696	12875	TT	CC	CC	INTERGENIC			
SNP_81811_A_12888	NW_004516106.1	scaffold696	12888	TT	CC	CC	INTERGENIC			
SNP_81812_A_12919	NW_004516106.1	scaffold696	12919	TT	CC	CC	INTERGENIC			
SNP_81813_A_12982	NW_004516106.1	scaffold696	12982	AA	GG	GG	INTERGENIC			
SNP_81814_A_13080	NW_004516106.1	scaffold696	13080	CC	AA	AA	INTERGENIC			
SNP_81815_A_13395	NW_004516106.1	scaffold696	13395	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81816_A_13423	NW_004516106.1	scaffold696	13423	TT	CC	CC	INTERGENIC			
SNP_81817_A_13498	NW_004516106.1	scaffold696	13498	TT	CC	CC	INTERGENIC			
SNP_81818_A_13557	NW_004516106.1	scaffold696	13557	TT	CC	CC	INTERGENIC			
SNP_81819_A_13995	NW_004516106.1	scaffold696	13995	AA	CC	CC	INTERGENIC			
SNP_81820_A_14044	NW_004516106.1	scaffold696	14044	CC	TT	TT	INTERGENIC			
SNP_81821_A_14054	NW_004516106.1	scaffold696	14054	AA	CC	CC	INTERGENIC			
SNP_81822_A_23404	NW_004516106.1	scaffold696	23404	TT	CC	CC	INTERGENIC			
SNP_81823_A_25932	NW_004516106.1	scaffold696	25932	TT	AA	AA	INTERGENIC			
SNP_81824_A_25969	NW_004516106.1	scaffold696	25969	GG	CC	CC	INTERGENIC			
SNP_81825_A_25983	NW_004516106.1	scaffold696	25983	AA	TT	TT	INTERGENIC			
SNP_81826_A_27898	NW_004516106.1	scaffold696	27898	GG	TT	TT	INTERGENIC			
SNP_81827_A_27900	NW_004516106.1	scaffold696	27900	AA	GG	GG	INTERGENIC			
SNP_81828_A_27901	NW_004516106.1	scaffold696	27901	GG	TT	TT	INTERGENIC			
SNP_81829_A_28092	NW_004516106.1	scaffold696	28092	AA	TT	TT	INTERGENIC			
SNP_81830_A_28588	NW_004516106.1	scaffold696	28588	CC	AA	AA	INTERGENIC			
SNP_81831_A_29020	NW_004516106.1	scaffold696	29020	TT	CC	CC	INTERGENIC			
SNP_81832_A_29128	NW_004516106.1	scaffold696	29128	GG	AA	AA	INTERGENIC			
SNP_81833_A_29172	NW_004516106.1	scaffold696	29172	AA	GG	GG	INTERGENIC			
SNP_81834_A_29179	NW_004516106.1	scaffold696	29179	GG	AA	AA	INTERGENIC			
SNP_81835_A_29180	NW_004516106.1	scaffold696	29180	GG	AA	AA	INTERGENIC			
SNP_81836_A_29186	NW_004516106.1	scaffold696	29186	GG	AA	AA	INTERGENIC			
SNP_81837_A_33009	NW_004516106.1	scaffold696	33009	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81838_A_33055	NW_004516106.1	scaffold696	33055	AA	GG	GG	INTERGENIC			
SNP_81839_A_33096	NW_004516106.1	scaffold696	33096	AA	GG	GG	INTERGENIC			
SNP_81840_A_33463	NW_004516106.1	scaffold696	33463	GG	AA	AA	INTERGENIC			
SNP_81841_A_33604	NW_004516106.1	scaffold696	33604	TT	CC	CC	INTERGENIC			
SNP_81843_A_39892	NW_004516106.1	scaffold696	39892	GG	CC	CC	INTERGENIC			
SNP_81845_A_43243	NW_004516106.1	scaffold696	43243	AA	TT	TT	INTERGENIC			
SNP_81846_A_43310	NW_004516106.1	scaffold696	43310	TT	CC	CC	INTERGENIC			
SNP_81847_A_43325	NW_004516106.1	scaffold696	43325	CC	TT	TT	INTERGENIC			
SNP_81848_A_43355	NW_004516106.1	scaffold696	43355	CC	TT	TT	INTERGENIC			
SNP_81849_A_43439	NW_004516106.1	scaffold696	43439	GG	TT	TT	INTERGENIC			
SNP_81850_A_43491	NW_004516106.1	scaffold696	43491	AA	GG	GG	INTERGENIC			
SNP_81851_A_43506	NW_004516106.1	scaffold696	43506	AA	GG	GG	INTERGENIC			
SNP_81852_A_43546	NW_004516106.1	scaffold696	43546	TT	CC	CC	INTERGENIC			
SNP_81853_A_51729	NW_004516106.1	scaffold696	51729	AA	CC	CC	DRR	101513674	probable terpene synthase 2	
SNP_81854_A_52232	NW_004516106.1	scaffold696	52232	TT	CC	CC	INTRON	101513674	probable terpene synthase 2	
SNP_81855_A_52306	NW_004516106.1	scaffold696	52306	GG	AA	AA	INTRON	101513674	probable terpene synthase 2	
SNP_81857_A_52353	NW_004516106.1	scaffold696	52353	GG	AA	AA	INTRON	101513674	probable terpene synthase 2	
SNP_81858_A_52376	NW_004516106.1	scaffold696	52376	CC	TT	TT	INTRON	101513674	probable terpene synthase 2	
SNP_81860_A_53971	NW_004516106.1	scaffold696	53971	CC	TT	TT	SYNONYMOUS_CODING	101513674	probable terpene synthase 2	
SNP_81861_A_179385	NW_004516106.1	scaffold696	179385	AA	CC	CC	INTERGENIC			
SNP_81862_A_179605	NW_004516106.1	scaffold696	179605	TT	CC	CC	INTERGENIC			
SNP_81863_A_1173	NW_004516108.1	scaffold702	1173	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81864_A_1259	NW_004516108.1	scaffold702	1259	TT	CC	CC	INTERGENIC		
SNP_81865_A_7119	NW_004516108.1	scaffold702	7119	GG	AA	AA	INTERGENIC		
SNP_81866_A_9144	NW_004516108.1	scaffold702	9144	TT	CC	CC	INTERGENIC		
SNP_81867_A_9371	NW_004516108.1	scaffold702	9371	TT	CC	CC	INTERGENIC		
SNP_81868_A_9467	NW_004516108.1	scaffold702	9467	AA	GG	GG	INTERGENIC		
SNP_81869_A_13954	NW_004516108.1	scaffold702	13954	CC	TT	TT	INTERGENIC		
SNP_81870_A_19284	NW_004516108.1	scaffold702	19284	TT	CC	CC	INTERGENIC		
SNP_81871_A_19287	NW_004516108.1	scaffold702	19287	AA	GG	GG	INTERGENIC		
SNP_81872_A_19295	NW_004516108.1	scaffold702	19295	CC	TT	TT	INTERGENIC		
SNP_81873_A_19300	NW_004516108.1	scaffold702	19300	TT	CC	CC	INTERGENIC		
SNP_81874_A_19589	NW_004516108.1	scaffold702	19589	GG	AA	AA	INTERGENIC		
SNP_81875_A_25112	NW_004516108.1	scaffold702	25112	AA	GG	GG	INTRON	101514993	uncharacterized LOC101514993
SNP_81876_A_36601	NW_004516108.1	scaffold702	36601	TT	GG	GG	INTERGENIC		
SNP_81877_A_37257	NW_004516108.1	scaffold702	37257	GG	AA	AA	INTERGENIC		
SNP_81878_A_41139	NW_004516108.1	scaffold702	41139	AA	GG	GG	INTERGENIC		
SNP_81879_A_49863	NW_004516108.1	scaffold702	49863	GG	AA	AA	INTERGENIC		
SNP_81881_A_52987	NW_004516108.1	scaffold702	52987	AA	GG	GG	INTERGENIC		
SNP_81882_A_52991	NW_004516108.1	scaffold702	52991	AA	GG	GG	INTERGENIC		
SNP_81883_A_53003	NW_004516108.1	scaffold702	53003	AA	GG	GG	INTERGENIC		
SNP_81885_A_61400	NW_004516108.1	scaffold702	61400	CC	TT	TT	INTERGENIC		
SNP_81886_A_65824	NW_004516108.1	scaffold702	65824	TT	GG	GG	INTERGENIC		
SNP_81887_A_69265	NW_004516108.1	scaffold702	69265	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81888_A_72338	NW_004516108.1	scaffold702	72338	CC	TT	TT	INTERGENIC		
SNP_81889_A_73196	NW_004516108.1	scaffold702	73196	CC	TT	TT	INTERGENIC		
SNP_81890_A_75700	NW_004516108.1	scaffold702	75700	GG	AA	AA	INTERGENIC		
SNP_81891_A_80772	NW_004516108.1	scaffold702	80772	CC	TT	TT	INTERGENIC		
SNP_81893_A_99706	NW_004516108.1	scaffold702	99706	TT	CC	CC	INTERGENIC		
SNP_81894_A_99778	NW_004516108.1	scaffold702	99778	AA	GG	GG	INTERGENIC		
SNP_81895_A_105285	NW_004516108.1	scaffold702	105285	CC	TT	TT	INTERGENIC		
SNP_81896_A_106338	NW_004516108.1	scaffold702	106338	TT	GG	GG	INTERGENIC		
SNP_81898_A_114803	NW_004516108.1	scaffold702	114803	TT	CC	CC	INTRON	101488957	uncharacterized LOC101488957
SNP_81899_A_122018	NW_004516108.1	scaffold702	122018	AA	GG	GG	INTERGENIC		
SNP_81900_A_124789	NW_004516108.1	scaffold702	124789	AA	CC	CC	INTERGENIC		
SNP_81901_A_126806	NW_004516108.1	scaffold702	126806	GG	AA	AA	INTERGENIC		
SNP_81902_A_150260	NW_004516108.1	scaffold702	150260	TT	AA	AA	INTERGENIC		
SNP_81903_A_150468	NW_004516108.1	scaffold702	150468	TT	CC	CC	INTERGENIC		
SNP_81904_A_153109	NW_004516108.1	scaffold702	153109	TT	CC	CC	INTERGENIC		
SNP_81906_A_174457	NW_004516108.1	scaffold702	174457	AA	GG	GG	INTRON	101489283	Unknown function
SNP_81908_A_185113	NW_004516108.1	scaffold702	185113	CC	AA	AA	INTERGENIC		
SNP_81909_A_187836	NW_004516108.1	scaffold702	187836	CC	TT	TT	INTERGENIC		
SNP_81910_A_190441	NW_004516108.1	scaffold702	190441	TT	AA	AA	INTERGENIC		
SNP_81911_A_190570	NW_004516108.1	scaffold702	190570	TT	GG	GG	INTERGENIC		
SNP_81912_A_194038	NW_004516108.1	scaffold702	194038	AA	GG	GG	INTERGENIC		
SNP_81913_A_194451	NW_004516108.1	scaffold702	194451	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_81914_A_194456	NW_004516108.1	scaffold702	194456	AA	TT	TT	INTERGENIC		
SNP_81915_A_205479	NW_004516108.1	scaffold702	205479	AA	CC	CC	INTERGENIC		
SNP_81916_A_205923	NW_004516108.1	scaffold702	205923	CC	AA	AA	INTERGENIC		
SNP_81918_A_217722	NW_004516108.1	scaffold702	217722	CC	TT	TT	INTERGENIC		
SNP_81919_A_219037	NW_004516108.1	scaffold702	219037	CC	GG	GG	INTERGENIC		
SNP_81920_A_219039	NW_004516108.1	scaffold702	219039	TT	CC	CC	INTERGENIC		
SNP_81921_A_219078	NW_004516108.1	scaffold702	219078	TT	GG	GG	INTERGENIC		
SNP_81922_A_219388	NW_004516108.1	scaffold702	219388	CC	TT	TT	INTERGENIC		
SNP_81924_A_226215	NW_004516108.1	scaffold702	226215	TT	CC	CC	INTERGENIC		
SNP_81925_A_231218	NW_004516108.1	scaffold702	231218	CC	TT	TT	DRR	101489927	anthranilate synthase alpha subunit 1, chloroplastic-like
SNP_81926_A_239658	NW_004516108.1	scaffold702	239658	AA	GG	GG	INTERGENIC		
SNP_81928_A_248954	NW_004516108.1	scaffold702	248954	GG	AA	AA	URR	101515530	magnesium transporter MRS2-2-like
SNP_81929_A_250431	NW_004516108.1	scaffold702	250431	GG	AA	AA	INTERGENIC		
SNP_81930_A_250532	NW_004516108.1	scaffold702	250532	AA	GG	GG	INTERGENIC		
SNP_81931_A_253830	NW_004516108.1	scaffold702	253830	CC	TT	TT	INTERGENIC		
SNP_81932_A_254059	NW_004516108.1	scaffold702	254059	AA	TT	TT	INTERGENIC		
SNP_81933_A_254221	NW_004516108.1	scaffold702	254221	AA	GG	GG	INTERGENIC		
SNP_81935_A_255305	NW_004516108.1	scaffold702	255305	CC	TT	TT	INTERGENIC		
SNP_81936_A_255400	NW_004516108.1	scaffold702	255400	GG	AA	AA	INTERGENIC		
SNP_81937_A_255406	NW_004516108.1	scaffold702	255406	GG	AA	AA	INTERGENIC		
SNP_81938_A_255920	NW_004516108.1	scaffold702	255920	GG	AA	AA	INTERGENIC		
SNP_81939_A_256365	NW_004516108.1	scaffold702	256365	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81940_A_258298	NW_004516108.1	scaffold702	258298	GG	CC	CC	INTERGENIC			
SNP_81941_A_258436	NW_004516108.1	scaffold702	258436	CC	AA	AA	INTERGENIC			
SNP_81942_A_258620	NW_004516108.1	scaffold702	258620	GG	AA	AA	INTERGENIC			
SNP_81943_A_259298	NW_004516108.1	scaffold702	259298	CC	AA	AA	INTERGENIC			
SNP_81944_A_259302	NW_004516108.1	scaffold702	259302	TT	GG	GG	INTERGENIC			
SNP_81945_A_262119	NW_004516108.1	scaffold702	262119	CC	AA	AA	INTERGENIC			
SNP_81946_A_262381	NW_004516108.1	scaffold702	262381	TT	AA	AA	INTERGENIC			
SNP_81947_A_262430	NW_004516108.1	scaffold702	262430	CC	TT	TT	INTERGENIC			
SNP_81948_A_262432	NW_004516108.1	scaffold702	262432	TT	AA	AA	INTERGENIC			
SNP_81949_A_262463	NW_004516108.1	scaffold702	262463	TT	GG	GG	INTERGENIC			
SNP_81950_A_262487	NW_004516108.1	scaffold702	262487	CC	TT	TT	INTERGENIC			
SNP_81951_A_262563	NW_004516108.1	scaffold702	262563	AA	CC	CC	INTERGENIC			
SNP_81952_A_262749	NW_004516108.1	scaffold702	262749	AA	GG	GG	INTERGENIC			
SNP_81953_A_262771	NW_004516108.1	scaffold702	262771	CC	TT	TT	INTERGENIC			
SNP_81954_A_262775	NW_004516108.1	scaffold702	262775	AA	GG	GG	INTERGENIC			
SNP_81955_A_262837	NW_004516108.1	scaffold702	262837	TT	CC	CC	INTERGENIC			
SNP_81956_A_263028	NW_004516108.1	scaffold702	263028	TT	AA	AA	INTERGENIC			
SNP_81957_A_263031	NW_004516108.1	scaffold702	263031	CC	TT	TT	INTERGENIC			
SNP_81958_A_263052	NW_004516108.1	scaffold702	263052	AA	TT	TT	INTERGENIC			
SNP_81959_A_263063	NW_004516108.1	scaffold702	263063	TT	CC	CC	INTERGENIC			
SNP_81960_A_263701	NW_004516108.1	scaffold702	263701	TT	CC	CC	INTERGENIC			
SNP_81961_A_263745	NW_004516108.1	scaffold702	263745	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81962_A_263807	NW_004516108.1	scaffold702	263807	AA	CC	CC	INTERGENIC			
SNP_81963_A_263925	NW_004516108.1	scaffold702	263925	CC	AA	AA	INTERGENIC			
SNP_81964_A_272214	NW_004516108.1	scaffold702	272214	TT	GG	GG	INTERGENIC			
SNP_81966_A_273213	NW_004516108.1	scaffold702	273213	AA	TT	TT	INTERGENIC			
SNP_81967_A_273813	NW_004516108.1	scaffold702	273813	AA	GG	GG	INTERGENIC			
SNP_81968_A_275041	NW_004516108.1	scaffold702	275041	GG	AA	AA	INTERGENIC			
SNP_81970_A_278590	NW_004516108.1	scaffold702	278590	AA	TT	TT	INTERGENIC			
SNP_81971_A_278955	NW_004516108.1	scaffold702	278955	GG	AA	AA	INTERGENIC			
SNP_81972_A_279780	NW_004516108.1	scaffold702	279780	CC	AA	AA	INTERGENIC			
SNP_81973_A_279852	NW_004516108.1	scaffold702	279852	GG	AA	AA	INTERGENIC			
SNP_81974_A_280287	NW_004516108.1	scaffold702	280287	TT	CC	CC	INTERGENIC			
SNP_81975_A_280308	NW_004516108.1	scaffold702	280308	CC	AA	AA	INTERGENIC			
SNP_81976_A_281869	NW_004516108.1	scaffold702	281869	TT	AA	AA	INTERGENIC			
SNP_81977_A_284382	NW_004516108.1	scaffold702	284382	CC	GG	GG	INTERGENIC			
SNP_81978_A_284444	NW_004516108.1	scaffold702	284444	GG	AA	AA	INTERGENIC			
SNP_81979_A_288180	NW_004516108.1	scaffold702	288180	GG	TT	TT	INTERGENIC			
SNP_81980_A_290052	NW_004516108.1	scaffold702	290052	TT	GG	GG	INTERGENIC			
SNP_81981_A_294312	NW_004516108.1	scaffold702	294312	GG	AA	AA	INTERGENIC			
SNP_81982_A_301631	NW_004516108.1	scaffold702	301631	CC	AA	AA	INTERGENIC			
SNP_81983_A_2925	NW_004516109.1	scaffold705	2925	GG	AA	AA	INTERGENIC			
SNP_81984_A_3422	NW_004516109.1	scaffold705	3422	AA	GG	GG	INTERGENIC			
SNP_81985_A_5520	NW_004516109.1	scaffold705	5520	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_81986_A_5538	NW_004516109.1	scaffold705	5538	AA	TT	TT	INTERGENIC			
SNP_81987_A_6325	NW_004516109.1	scaffold705	6325	TT	CC	CC	INTERGENIC			
SNP_81988_A_6413	NW_004516109.1	scaffold705	6413	AA	TT	TT	INTERGENIC			
SNP_81989_A_6417	NW_004516109.1	scaffold705	6417	TT	AA	AA	INTERGENIC			
SNP_81990_A_6496	NW_004516109.1	scaffold705	6496	TT	CC	CC	INTERGENIC			
SNP_81991_A_11516	NW_004516109.1	scaffold705	11516	CC	TT	TT	INTERGENIC			
SNP_81992_A_11782	NW_004516109.1	scaffold705	11782	TT	CC	CC	INTERGENIC			
SNP_81993_A_12833	NW_004516109.1	scaffold705	12833	GG	AA	AA	INTERGENIC			
SNP_81994_A_12893	NW_004516109.1	scaffold705	12893	TT	AA	AA	INTERGENIC			
SNP_81995_A_12900	NW_004516109.1	scaffold705	12900	AA	GG	GG	INTERGENIC			
SNP_81996_A_13907	NW_004516109.1	scaffold705	13907	AA	GG	GG	INTERGENIC			
SNP_81997_A_15127	NW_004516109.1	scaffold705	15127	CC	AA	AA	INTERGENIC			
SNP_81998_A_16308	NW_004516109.1	scaffold705	16308	TT	CC	CC	INTERGENIC			
SNP_81999_A_16516	NW_004516109.1	scaffold705	16516	CC	GG	GG	INTERGENIC			
SNP_82000_A_16586	NW_004516109.1	scaffold705	16586	GG	TT	TT	INTERGENIC			
SNP_82001_A_16625	NW_004516109.1	scaffold705	16625	CC	TT	TT	INTERGENIC			
SNP_82002_A_16627	NW_004516109.1	scaffold705	16627	CC	TT	TT	INTERGENIC			
SNP_82003_A_16655	NW_004516109.1	scaffold705	16655	GG	AA	AA	INTERGENIC			
SNP_82004_A_16775	NW_004516109.1	scaffold705	16775	GG	TT	TT	INTERGENIC			
SNP_82005_A_16845	NW_004516109.1	scaffold705	16845	GG	CC	CC	INTERGENIC			
SNP_82006_A_16860	NW_004516109.1	scaffold705	16860	TT	CC	CC	INTERGENIC			
SNP_82007_A_16891	NW_004516109.1	scaffold705	16891	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82009_A_17218	NW_004516109.1	scaffold705	17218	GG	AA	AA	INTERGENIC			
SNP_82010_A_20351	NW_004516109.1	scaffold705	20351	GG	AA	AA	INTERGENIC			
SNP_82011_A_25152	NW_004516109.1	scaffold705	25152	GG	AA	AA	INTERGENIC			
SNP_82012_A_25174	NW_004516109.1	scaffold705	25174	AA	GG	GG	INTERGENIC			
SNP_82013_A_25263	NW_004516109.1	scaffold705	25263	CC	GG	GG	INTERGENIC			
SNP_82014_A_25270	NW_004516109.1	scaffold705	25270	CC	GG	GG	INTERGENIC			
SNP_82015_A_25335	NW_004516109.1	scaffold705	25335	GG	AA	AA	INTERGENIC			
SNP_82016_A_25336	NW_004516109.1	scaffold705	25336	CC	TT	TT	INTERGENIC			
SNP_82017_A_25377	NW_004516109.1	scaffold705	25377	CC	TT	TT	INTERGENIC			
SNP_82018_A_25556	NW_004516109.1	scaffold705	25556	TT	CC	CC	INTERGENIC			
SNP_82019_A_25589	NW_004516109.1	scaffold705	25589	TT	GG	GG	INTERGENIC			
SNP_82020_A_25746	NW_004516109.1	scaffold705	25746	AA	GG	GG	INTERGENIC			
SNP_82021_A_29648	NW_004516109.1	scaffold705	29648	GG	CC	CC	INTERGENIC			
SNP_82022_A_29900	NW_004516109.1	scaffold705	29900	TT	AA	AA	INTERGENIC			
SNP_82023_A_29957	NW_004516109.1	scaffold705	29957	GG	AA	AA	INTERGENIC			
SNP_82024_A_30307	NW_004516109.1	scaffold705	30307	AA	GG	GG	INTERGENIC			
SNP_82025_A_30556	NW_004516109.1	scaffold705	30556	CC	TT	TT	INTERGENIC			
SNP_82027_A_33886	NW_004516109.1	scaffold705	33886	TT	CC	CC	INTERGENIC			
SNP_82028_A_34316	NW_004516109.1	scaffold705	34316	TT	CC	CC	INTERGENIC			
SNP_82029_A_34448	NW_004516109.1	scaffold705	34448	CC	GG	GG	INTERGENIC			
SNP_82030_A_34712	NW_004516109.1	scaffold705	34712	TT	AA	AA	INTERGENIC			
SNP_82031_A_34836	NW_004516109.1	scaffold705	34836	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82032_A_34980	NW_004516109.1	scaffold705	34980	CC	TT	TT	INTERGENIC			
SNP_82033_A_34996	NW_004516109.1	scaffold705	34996	AA	CC	CC	INTERGENIC			
SNP_82034_A_34999	NW_004516109.1	scaffold705	34999	TT	CC	CC	INTERGENIC			
SNP_82035_A_35020	NW_004516109.1	scaffold705	35020	TT	CC	CC	INTERGENIC			
SNP_82036_A_35099	NW_004516109.1	scaffold705	35099	TT	AA	AA	INTERGENIC			
SNP_82037_A_35197	NW_004516109.1	scaffold705	35197	AA	CC	CC	INTERGENIC			
SNP_82038_A_35431	NW_004516109.1	scaffold705	35431	GG	AA	AA	INTERGENIC			
SNP_82039_A_44631	NW_004516109.1	scaffold705	44631	GG	AA	AA	INTERGENIC			
SNP_82040_A_44697	NW_004516109.1	scaffold705	44697	TT	GG	GG	INTERGENIC			
SNP_82041_A_45154	NW_004516109.1	scaffold705	45154	TT	AA	AA	INTERGENIC			
SNP_82043_A_45283	NW_004516109.1	scaffold705	45283	GG	AA	AA	INTERGENIC			
SNP_82044_A_45332	NW_004516109.1	scaffold705	45332	CC	TT	TT	INTERGENIC			
SNP_82045_A_45350	NW_004516109.1	scaffold705	45350	AA	GG	GG	INTERGENIC			
SNP_82046_A_45368	NW_004516109.1	scaffold705	45368	AA	TT	TT	INTERGENIC			
SNP_82047_A_45746	NW_004516109.1	scaffold705	45746	GG	AA	AA	INTERGENIC			
SNP_82048_A_45900	NW_004516109.1	scaffold705	45900	AA	GG	GG	INTERGENIC			
SNP_82049_A_45901	NW_004516109.1	scaffold705	45901	GG	AA	AA	INTERGENIC			
SNP_82050_A_47958	NW_004516109.1	scaffold705	47958	GG	TT	TT	INTERGENIC			
SNP_82051_A_50018	NW_004516109.1	scaffold705	50018	AA	GG	GG	INTERGENIC			
SNP_82052_A_50500	NW_004516109.1	scaffold705	50500	GG	AA	AA	INTERGENIC			
SNP_82053_A_55964	NW_004516109.1	scaffold705	55964	GG	TT	TT	INTERGENIC			
SNP_82054_A_56034	NW_004516109.1	scaffold705	56034	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82055_A_56154	NW_004516109.1	scaffold705	56154	CC	TT	TT	INTERGENIC			
SNP_82056_A_56155	NW_004516109.1	scaffold705	56155	TT	AA	AA	INTERGENIC			
SNP_82057_A_56256	NW_004516109.1	scaffold705	56256	AA	TT	TT	INTERGENIC			
SNP_82058_A_56262	NW_004516109.1	scaffold705	56262	CC	AA	AA	INTERGENIC			
SNP_82059_A_56568	NW_004516109.1	scaffold705	56568	GG	AA	AA	INTERGENIC			
SNP_82060_A_64956	NW_004516109.1	scaffold705	64956	CC	TT	TT	INTERGENIC			
SNP_82061_A_64958	NW_004516109.1	scaffold705	64958	CC	AA	AA	INTERGENIC			
SNP_82062_A_1002	NW_004516110.1	scaffold707	1002	GG	AA	AA	INTERGENIC			
SNP_82063_A_1502	NW_004516110.1	scaffold707	1502	AA	GG	GG	INTERGENIC			
SNP_82064_A_5120	NW_004516110.1	scaffold707	5120	GG	AA	AA	INTERGENIC			
SNP_82065_A_5500	NW_004516110.1	scaffold707	5500	CC	TT	TT	INTERGENIC			
SNP_82066_A_5550	NW_004516110.1	scaffold707	5550	AA	GG	GG	INTERGENIC			
SNP_82067_A_10694	NW_004516110.1	scaffold707	10694	TT	CC	CC	INTERGENIC			
SNP_82068_A_24736	NW_004516110.1	scaffold707	24736	CC	AA	AA	INTRON	101491435	uncharacterized LOC101491435	
SNP_82069_A_24757	NW_004516110.1	scaffold707	24757	GG	CC	CC	INTRON	101491435	uncharacterized LOC101491435	
SNP_82070_A_25205	NW_004516110.1	scaffold707	25205	AA	GG	GG	INTRON	101491435	uncharacterized LOC101491435	
SNP_82071_A_25211	NW_004516110.1	scaffold707	25211	TT	CC	CC	INTRON	101491435	uncharacterized LOC101491435	
SNP_82072_A_25233	NW_004516110.1	scaffold707	25233	TT	AA	AA	INTRON	101491435	uncharacterized LOC101491435	
SNP_82073_A_25289	NW_004516110.1	scaffold707	25289	TT	CC	CC	INTRON	101491435	uncharacterized LOC101491435	
SNP_82075_A_25365	NW_004516110.1	scaffold707	25365	TT	GG	GG	INTRON	101491435	uncharacterized LOC101491435	
SNP_82076_A_28070	NW_004516110.1	scaffold707	28070	GG	AA	AA	INTRON	101491435	uncharacterized LOC101491435	
SNP_82077_A_28127	NW_004516110.1	scaffold707	28127	AA	GG	GG	INTRON	101491435	uncharacterized LOC101491435	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82078_A_29739	NW_004516110.1	scaffold707	29739	GG	AA	AA	INTRON	101491435	uncharacterized LOC101491435
SNP_82079_A_49371	NW_004516110.1	scaffold707	49371	AA	GG	GG	URR	101490899	cytosolic sulfotransferase 15-like
SNP_82080_A_51950	NW_004516110.1	scaffold707	51950	GG	AA	AA	INTERGENIC		
SNP_82081_A_53272	NW_004516110.1	scaffold707	53272	TT	CC	CC	INTERGENIC		
SNP_82082_A_55126	NW_004516110.1	scaffold707	55126	TT	CC	CC	INTERGENIC		
SNP_82083_A_55550	NW_004516110.1	scaffold707	55550	AA	CC	CC	INTERGENIC		
SNP_82084_A_55580	NW_004516110.1	scaffold707	55580	AA	GG	GG	INTERGENIC		
SNP_82086_A_62879	NW_004516110.1	scaffold707	62879	AA	GG	GG	INTERGENIC		
SNP_82087_A_66685	NW_004516110.1	scaffold707	66685	GG	AA	AA	INTERGENIC		
SNP_82088_A_66710	NW_004516110.1	scaffold707	66710	TT	GG	GG	INTERGENIC		
SNP_82089_A_68345	NW_004516110.1	scaffold707	68345	TT	CC	CC	INTERGENIC		
SNP_82090_A_68818	NW_004516110.1	scaffold707	68818	AA	CC	CC	INTERGENIC		
SNP_82092_A_70524	NW_004516110.1	scaffold707	70524	AA	CC	CC	INTERGENIC		
SNP_82093_A_72938	NW_004516110.1	scaffold707	72938	TT	CC	CC	INTERGENIC		
SNP_82094_A_82788	NW_004516110.1	scaffold707	82788	CC	AA	AA	INTERGENIC		
SNP_82095_A_82824	NW_004516110.1	scaffold707	82824	TT	AA	GG	INTERGENIC		
SNP_82096_A_83160	NW_004516110.1	scaffold707	83160	AA	CC	CC	INTERGENIC		
SNP_82097_A_83183	NW_004516110.1	scaffold707	83183	CC	AA	AA	INTERGENIC		
SNP_82099_A_85808	NW_004516110.1	scaffold707	85808	CC	TT	TT	INTERGENIC		
SNP_82100_A_85816	NW_004516110.1	scaffold707	85816	CC	TT	TT	INTERGENIC		
SNP_82101_A_85886	NW_004516110.1	scaffold707	85886	AA	GG	GG	INTERGENIC		
SNP_82102_A_85937	NW_004516110.1	scaffold707	85937	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82103_A_85945	NW_004516110.1	scaffold707	85945	TT	AA	AA	INTERGENIC			
SNP_82105_A_86152	NW_004516110.1	scaffold707	86152	AA	GG	GG	INTERGENIC			
SNP_82106_A_86157	NW_004516110.1	scaffold707	86157	AA	GG	GG	INTERGENIC			
SNP_82107_A_86170	NW_004516110.1	scaffold707	86170	TT	CC	CC	INTERGENIC			
SNP_82109_A_115647	NW_004516110.1	scaffold707	115647	AA	GG	GG	INTERGENIC			
SNP_82110_A_115666	NW_004516110.1	scaffold707	115666	GG	TT	TT	INTERGENIC			
SNP_82111_A_121560	NW_004516110.1	scaffold707	121560	AA	GG	GG	INTERGENIC			
SNP_82112_A_121701	NW_004516110.1	scaffold707	121701	TT	GG	GG	INTERGENIC			
SNP_82113_A_121707	NW_004516110.1	scaffold707	121707	CC	TT	TT	INTERGENIC			
SNP_82114_A_121931	NW_004516110.1	scaffold707	121931	AA	CC	CC	INTERGENIC			
SNP_82115_A_10927	NW_004516111.1	scaffold708	10927	TT	CC	CC	INTERGENIC			
SNP_82116_A_10998	NW_004516111.1	scaffold708	10998	CC	AA	AA	INTERGENIC			
SNP_82117_A_11014	NW_004516111.1	scaffold708	11014	TT	CC	CC	INTERGENIC			
SNP_82118_A_11020	NW_004516111.1	scaffold708	11020	GG	AA	AA	INTERGENIC			
SNP_82119_A_11137	NW_004516111.1	scaffold708	11137	GG	AA	AA	INTERGENIC			
SNP_82120_A_11155	NW_004516111.1	scaffold708	11155	AA	GG	GG	INTERGENIC			
SNP_82121_A_11200	NW_004516111.1	scaffold708	11200	TT	AA	AA	INTERGENIC			
SNP_82122_A_11229	NW_004516111.1	scaffold708	11229	AA	GG	GG	INTERGENIC			
SNP_82123_A_11230	NW_004516111.1	scaffold708	11230	CC	AA	AA	INTERGENIC			
SNP_82124_A_11242	NW_004516111.1	scaffold708	11242	CC	TT	TT	INTERGENIC			
SNP_82125_A_11263	NW_004516111.1	scaffold708	11263	TT	CC	CC	INTERGENIC			
SNP_82126_A_11269	NW_004516111.1	scaffold708	11269	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82127_A_11271	NW_004516111.1	scaffold708	11271	TT	CC	CC	INTERGENIC			
SNP_82128_A_11273	NW_004516111.1	scaffold708	11273	CC	AA	AA	INTERGENIC			
SNP_82129_A_11287	NW_004516111.1	scaffold708	11287	CC	TT	TT	INTERGENIC			
SNP_82130_A_12438	NW_004516111.1	scaffold708	12438	TT	GG	GG	INTERGENIC			
SNP_82131_A_12452	NW_004516111.1	scaffold708	12452	AA	CC	CC	INTERGENIC			
SNP_82132_A_12482	NW_004516111.1	scaffold708	12482	CC	TT	TT	INTERGENIC			
SNP_82133_A_12563	NW_004516111.1	scaffold708	12563	GG	AA	AA	INTERGENIC			
SNP_82134_A_12884	NW_004516111.1	scaffold708	12884	AA	GG	GG	INTERGENIC			
SNP_82135_A_12904	NW_004516111.1	scaffold708	12904	TT	CC	CC	INTERGENIC			
SNP_82136_A_12968	NW_004516111.1	scaffold708	12968	AA	CC	CC	INTERGENIC			
SNP_82137_A_12991	NW_004516111.1	scaffold708	12991	AA	CC	CC	INTERGENIC			
SNP_82138_A_13003	NW_004516111.1	scaffold708	13003	TT	CC	CC	INTERGENIC			
SNP_82139_A_13107	NW_004516111.1	scaffold708	13107	AA	GG	GG	INTERGENIC			
SNP_82140_A_13117	NW_004516111.1	scaffold708	13117	AA	CC	CC	INTERGENIC			
SNP_82141_A_13119	NW_004516111.1	scaffold708	13119	TT	AA	AA	INTERGENIC			
SNP_82142_A_13145	NW_004516111.1	scaffold708	13145	GG	AA	AA	INTERGENIC			
SNP_82143_A_13172	NW_004516111.1	scaffold708	13172	AA	GG	GG	INTERGENIC			
SNP_82144_A_16900	NW_004516111.1	scaffold708	16900	AA	GG	GG	INTERGENIC			
SNP_82145_A_16908	NW_004516111.1	scaffold708	16908	GG	AA	AA	INTERGENIC			
SNP_82146_A_44009	NW_004516111.1	scaffold708	44009	GG	CC	CC	INTERGENIC			
SNP_82147_A_44012	NW_004516111.1	scaffold708	44012	CC	GG	GG	INTERGENIC			
SNP_82148_A_44313	NW_004516111.1	scaffold708	44313	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82149_A_50137	NW_004516111.1	scaffold708	50137	TT	CC	CC	INTERGENIC			
SNP_82150_A_50234	NW_004516111.1	scaffold708	50234	TT	CC	CC	INTERGENIC			
SNP_82151_A_1971	NW_004516112.1	scaffold709	1971	TT	AA	AA	INTERGENIC			
SNP_82152_A_2009	NW_004516112.1	scaffold709	2009	AA	TT	TT	INTERGENIC			
SNP_82153_A_2014	NW_004516112.1	scaffold709	2014	AA	GG	GG	INTERGENIC			
SNP_82154_A_2046	NW_004516112.1	scaffold709	2046	AA	TT	TT	INTERGENIC			
SNP_82155_A_2188	NW_004516112.1	scaffold709	2188	AA	GG	GG	INTERGENIC			
SNP_82156_A_2189	NW_004516112.1	scaffold709	2189	TT	CC	CC	INTERGENIC			
SNP_82157_A_2243	NW_004516112.1	scaffold709	2243	AA	GG	GG	INTERGENIC			
SNP_82158_A_2285	NW_004516112.1	scaffold709	2285	AA	GG	GG	INTERGENIC			
SNP_82159_A_2291	NW_004516112.1	scaffold709	2291	AA	GG	GG	INTERGENIC			
SNP_82160_A_2293	NW_004516112.1	scaffold709	2293	CC	GG	GG	INTERGENIC			
SNP_82161_A_2331	NW_004516112.1	scaffold709	2331	TT	CC	CC	INTERGENIC			
SNP_82162_A_2342	NW_004516112.1	scaffold709	2342	AA	GG	GG	INTERGENIC			
SNP_82163_A_4004	NW_004516112.1	scaffold709	4004	TT	GG	GG	INTERGENIC			
SNP_82165_A_7064	NW_004516112.1	scaffold709	7064	AA	GG	GG	INTERGENIC			
SNP_82166_A_7082	NW_004516112.1	scaffold709	7082	TT	AA	AA	INTERGENIC			
SNP_82167_A_7154	NW_004516112.1	scaffold709	7154	AA	TT	TT	INTERGENIC			
SNP_82168_A_7309	NW_004516112.1	scaffold709	7309	GG	CC	CC	INTERGENIC			
SNP_82169_A_7356	NW_004516112.1	scaffold709	7356	GG	AA	AA	INTERGENIC			
SNP_82170_A_7395	NW_004516112.1	scaffold709	7395	CC	TT	TT	INTERGENIC			
SNP_82171_A_7399	NW_004516112.1	scaffold709	7399	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82172_A_7414	NW_004516112.1	scaffold709	7414	TT	GG	GG	INTERGENIC			
SNP_82173_A_7421	NW_004516112.1	scaffold709	7421	GG	TT	TT	INTERGENIC			
SNP_82174_A_7528	NW_004516112.1	scaffold709	7528	GG	TT	TT	INTERGENIC			
SNP_82175_A_7542	NW_004516112.1	scaffold709	7542	CC	TT	TT	INTERGENIC			
SNP_82176_A_7588	NW_004516112.1	scaffold709	7588	GG	TT	TT	INTERGENIC			
SNP_82177_A_7726	NW_004516112.1	scaffold709	7726	GG	AA	AA	INTERGENIC			
SNP_82178_A_7780	NW_004516112.1	scaffold709	7780	GG	AA	AA	INTERGENIC			
SNP_82179_A_7799	NW_004516112.1	scaffold709	7799	CC	TT	TT	INTERGENIC			
SNP_82180_A_11192	NW_004516113.1	scaffold711	11192	TT	GG	GG	INTERGENIC			
SNP_82181_A_28916	NW_004516113.1	scaffold711	28916	TT	AA	AA	URR	101492070	mitochondrial outer membrane protein porin of 36 kDa-like	
SNP_82182_A_36031	NW_004516113.1	scaffold711	36031	AA	CC	CC	INTERGENIC			
SNP_82183_A_36064	NW_004516113.1	scaffold711	36064	CC	TT	TT	INTERGENIC			
SNP_82184_A_36085	NW_004516113.1	scaffold711	36085	GG	AA	AA	INTERGENIC			
SNP_82185_A_36115	NW_004516113.1	scaffold711	36115	CC	TT	TT	INTERGENIC			
SNP_82186_A_36313	NW_004516113.1	scaffold711	36313	GG	AA	AA	INTERGENIC			
SNP_82187_A_36337	NW_004516113.1	scaffold711	36337	CC	AA	AA	INTERGENIC			
SNP_82188_A_36349	NW_004516113.1	scaffold711	36349	CC	TT	TT	INTERGENIC			
SNP_82189_A_36440	NW_004516113.1	scaffold711	36440	AA	GG	GG	INTERGENIC			
SNP_82190_A_50960	NW_004516113.1	scaffold711	50960	GG	TT	TT	INTERGENIC			
SNP_82191_A_102897	NW_004516113.1	scaffold711	102897	GG	AA	AA	INTERGENIC			
SNP_82192_A_116823	NW_004516113.1	scaffold711	116823	CC	TT	TT	INTERGENIC			
SNP_82193_A_171186	NW_004516113.1	scaffold711	171186	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82194_A_184170	NW_004516113.1	scaffold711	184170	AA	GG	GG	INTERGENIC			
SNP_82198_A_218488	NW_004516113.1	scaffold711	218488	AA	TT	TT	INTERGENIC			
SNP_82199_A_218617	NW_004516113.1	scaffold711	218617	AA	CC	CC	INTERGENIC			
SNP_82200_A_218787	NW_004516113.1	scaffold711	218787	CC	TT	TT	INTERGENIC			
SNP_82201_A_230014	NW_004516113.1	scaffold711	230014	AA	TT	TT	INTERGENIC			
SNP_82202_A_4191	NW_004516114.1	scaffold712	4191	GG	AA	AA	INTERGENIC			
SNP_82203_A_5271	NW_004516114.1	scaffold712	5271	TT	CC	CC	INTERGENIC			
SNP_82204_A_7810	NW_004516114.1	scaffold712	7810	TT	CC	CC	INTERGENIC			
SNP_82205_A_1234	NW_004516115.1	scaffold715	1234	AA	GG	GG	INTERGENIC			
SNP_82206_A_1288	NW_004516115.1	scaffold715	1288	TT	AA	AA	INTERGENIC			
SNP_82207_A_5483	NW_004516115.1	scaffold715	5483	CC	TT	TT	INTERGENIC			
SNP_82208_A_5514	NW_004516115.1	scaffold715	5514	GG	AA	AA	INTERGENIC			
SNP_82209_A_5314	NW_004516116.1	scaffold716	5314	CC	AA	AA	INTERGENIC			
SNP_82210_A_13508	NW_004516116.1	scaffold716	13508	AA	TT	TT	INTERGENIC			
SNP_82211_A_23279	NW_004516116.1	scaffold716	23279	GG	AA	AA	INTERGENIC			
SNP_82212_A_23454	NW_004516116.1	scaffold716	23454	GG	AA	AA	INTERGENIC			
SNP_82213_A_23467	NW_004516116.1	scaffold716	23467	TT	AA	AA	INTERGENIC			
SNP_82214_A_23580	NW_004516116.1	scaffold716	23580	AA	GG	GG	INTERGENIC			
SNP_82215_A_23622	NW_004516116.1	scaffold716	23622	AA	GG	GG	INTERGENIC			
SNP_82216_A_23755	NW_004516116.1	scaffold716	23755	TT	CC	CC	INTERGENIC			
SNP_82217_A_23764	NW_004516116.1	scaffold716	23764	AA	TT	TT	INTERGENIC			
SNP_82218_A_46053	NW_004516116.1	scaffold716	46053	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82219_A_46419	NW_004516116.1	scaffold716	46419	TT	AA	AA	INTERGENIC			
SNP_82220_A_64436	NW_004516116.1	scaffold716	64436	AA	CC	CC	INTERGENIC			
SNP_82221_A_66199	NW_004516116.1	scaffold716	66199	CC	TT	TT	INTERGENIC			
SNP_82222_A_66201	NW_004516116.1	scaffold716	66201	AA	GG	GG	INTERGENIC			
SNP_82223_A_66206	NW_004516116.1	scaffold716	66206	AA	GG	GG	INTERGENIC			
SNP_82224_A_66358	NW_004516116.1	scaffold716	66358	AA	GG	GG	INTERGENIC			
SNP_82225_A_66457	NW_004516116.1	scaffold716	66457	CC	AA	AA	INTERGENIC			
SNP_82227_A_116851	NW_004516116.1	scaffold716	116851	TT	CC	CC	INTERGENIC			
SNP_82228_A_117783	NW_004516116.1	scaffold716	117783	TT	CC	CC	INTERGENIC			
SNP_82229_A_117794	NW_004516116.1	scaffold716	117794	TT	CC	CC	INTERGENIC			
SNP_82230_A_117848	NW_004516116.1	scaffold716	117848	AA	GG	GG	INTERGENIC			
SNP_82231_A_117855	NW_004516116.1	scaffold716	117855	TT	CC	CC	INTERGENIC			
SNP_82232_A_117864	NW_004516116.1	scaffold716	117864	GG	CC	CC	INTERGENIC			
SNP_82233_A_117868	NW_004516116.1	scaffold716	117868	GG	AA	AA	INTERGENIC			
SNP_82234_A_117890	NW_004516116.1	scaffold716	117890	TT	CC	CC	INTERGENIC			
SNP_82235_A_117956	NW_004516116.1	scaffold716	117956	TT	CC	CC	INTERGENIC			
SNP_82236_A_119722	NW_004516116.1	scaffold716	119722	AA	TT	TT	INTERGENIC			
SNP_82237_A_119740	NW_004516116.1	scaffold716	119740	GG	AA	AA	INTERGENIC			
SNP_82238_A_119749	NW_004516116.1	scaffold716	119749	GG	AA	AA	INTERGENIC			
SNP_82239_A_131595	NW_004516116.1	scaffold716	131595	CC	TT	TT	INTRON	101496084	leucine-rich repeat receptor-like protein kinase PXC2	
SNP_82241_A_136311	NW_004516116.1	scaffold716	136311	GG	AA	AA	SYNONYMOUS_CODING	101496084	leucine-rich repeat receptor-like protein kinase PXC2	
SNP_82243_A_164942	NW_004516116.1	scaffold716	164942	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82244_A_168556	NW_004516116.1	scaffold716	168556	GG	CC	CC	INTERGENIC			
SNP_82245_A_174128	NW_004516116.1	scaffold716	174128	AA	GG	GG	INTERGENIC			
SNP_82246_A_181428	NW_004516116.1	scaffold716	181428	AA	TT	TT	INTERGENIC			
SNP_82247_A_181435	NW_004516116.1	scaffold716	181435	TT	CC	CC	INTERGENIC			
SNP_82248_A_181438	NW_004516116.1	scaffold716	181438	AA	TT	TT	INTERGENIC			
SNP_82249_A_181450	NW_004516116.1	scaffold716	181450	GG	TT	TT	INTERGENIC			
SNP_82250_A_181453	NW_004516116.1	scaffold716	181453	AA	CC	CC	INTERGENIC			
SNP_82251_A_183276	NW_004516116.1	scaffold716	183276	CC	TT	TT	INTERGENIC			
SNP_82252_A_187106	NW_004516116.1	scaffold716	187106	TT	CC	CC	INTERGENIC			
SNP_82254_A_191163	NW_004516116.1	scaffold716	191163	CC	AA	AA	INTERGENIC			
SNP_82255_A_192635	NW_004516116.1	scaffold716	192635	GG	AA	AA	INTERGENIC			
SNP_82257_A_201175	NW_004516116.1	scaffold716	201175	AA	GG	GG	INTERGENIC			
SNP_82258_A_201604	NW_004516116.1	scaffold716	201604	GG	AA	AA	INTERGENIC			
SNP_82259_A_202821	NW_004516116.1	scaffold716	202821	TT	GG	GG	INTERGENIC			
SNP_82260_A_219826	NW_004516116.1	scaffold716	219826	TT	GG	GG	INTERGENIC			
SNP_82261_A_226643	NW_004516116.1	scaffold716	226643	GG	AA	AA	INTERGENIC			
SNP_82262_A_228761	NW_004516116.1	scaffold716	228761	AA	GG	GG	INTERGENIC			
SNP_82263_A_244471	NW_004516116.1	scaffold716	244471	CC	TT	TT	DRR	101497718	uncharacterized LOC101497718	
SNP_82264_A_247838	NW_004516116.1	scaffold716	247838	AA	GG	GG	URR	101497718	uncharacterized LOC101497718	
SNP_82265_A_248082	NW_004516116.1	scaffold716	248082	TT	GG	GG	URR	101497718	uncharacterized LOC101497718	
SNP_82266_A_248084	NW_004516116.1	scaffold716	248084	CC	TT	TT	URR	101497718	uncharacterized LOC101497718	
SNP_82268_A_248115	NW_004516116.1	scaffold716	248115	AA	GG	GG	URR	101497718	uncharacterized LOC101497718	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82269_A_248119	NW_004516116.1	scaffold716	248119	CC	TT	TT	URR	101497718	uncharacterized LOC101497718
SNP_82270_A_248147	NW_004516116.1	scaffold716	248147	CC	TT	TT	URR	101497718	uncharacterized LOC101497718
SNP_82271_A_248150	NW_004516116.1	scaffold716	248150	CC	AA	AA	URR	101497718	uncharacterized LOC101497718
SNP_82272_A_248284	NW_004516116.1	scaffold716	248284	AA	CC	CC	URR	101497718	uncharacterized LOC101497718
SNP_82273_A_263466	NW_004516116.1	scaffold716	263466	GG	TT	TT	INTERGENIC		
SNP_82274_A_263547	NW_004516116.1	scaffold716	263547	TT	CC	CC	INTERGENIC		
SNP_82275_A_263587	NW_004516116.1	scaffold716	263587	TT	GG	GG	INTERGENIC		
SNP_82276_A_263621	NW_004516116.1	scaffold716	263621	TT	CC	CC	INTERGENIC		
SNP_82277_A_263629	NW_004516116.1	scaffold716	263629	TT	AA	AA	INTERGENIC		
SNP_82278_A_263670	NW_004516116.1	scaffold716	263670	GG	AA	AA	INTERGENIC		
SNP_82279_A_263739	NW_004516116.1	scaffold716	263739	CC	TT	TT	INTERGENIC		
SNP_82280_A_263740	NW_004516116.1	scaffold716	263740	AA	GG	GG	INTERGENIC		
SNP_82281_A_273095	NW_004516116.1	scaffold716	273095	CC	AA	AA	INTERGENIC		
SNP_82282_A_295417	NW_004516116.1	scaffold716	295417	CC	TT	TT	INTERGENIC		
SNP_82283_A_315032	NW_004516116.1	scaffold716	315032	AA	GG	GG	INTERGENIC		
SNP_82284_A_378929	NW_004516116.1	scaffold716	378929	AA	GG	GG	INTERGENIC		
SNP_82285_A_397208	NW_004516116.1	scaffold716	397208	TT	CC	CC	INTERGENIC		
SNP_82286_A_397276	NW_004516116.1	scaffold716	397276	TT	GG	GG	INTERGENIC		
SNP_82287_A_397361	NW_004516116.1	scaffold716	397361	GG	TT	TT	INTERGENIC		
SNP_82288_A_397561	NW_004516116.1	scaffold716	397561	TT	AA	AA	INTERGENIC		
SNP_82289_A_397562	NW_004516116.1	scaffold716	397562	AA	TT	TT	INTERGENIC		
SNP_82290_A_397601	NW_004516116.1	scaffold716	397601	CC	TT	TT	INTERGENIC		

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SNP_82291_A_397603	NW_004516116.1	scaffold716	397603	GG	CC	CC	INTERGENIC			
SNP_82292_A_397608	NW_004516116.1	scaffold716	397608	GG	TT	TT	INTERGENIC			
SNP_82293_A_397611	NW_004516116.1	scaffold716	397611	GG	AA	AA	INTERGENIC			
SNP_82294_A_397640	NW_004516116.1	scaffold716	397640	TT	CC	CC	INTERGENIC			
SNP_82295_A_397641	NW_004516116.1	scaffold716	397641	TT	CC	CC	INTERGENIC			
SNP_82296_A_397659	NW_004516116.1	scaffold716	397659	AA	GG	GG	INTERGENIC			
SNP_82297_A_397676	NW_004516116.1	scaffold716	397676	AA	TT	TT	INTERGENIC			
SNP_82298_A_397774	NW_004516116.1	scaffold716	397774	TT	CC	CC	INTERGENIC			
SNP_82299_A_397823	NW_004516116.1	scaffold716	397823	TT	CC	CC	INTERGENIC			
SNP_82300_A_397824	NW_004516116.1	scaffold716	397824	AA	GG	GG	INTERGENIC			
SNP_82301_A_2862	NW_004516117.1	scaffold717	2862	AA	GG	GG	INTERGENIC			
SNP_82302_A_2871	NW_004516117.1	scaffold717	2871	CC	GG	GG	INTERGENIC			
SNP_82303_A_2872	NW_004516117.1	scaffold717	2872	CC	AA	AA	INTERGENIC			
SNP_82304_A_2874	NW_004516117.1	scaffold717	2874	TT	AA	AA	INTERGENIC			
SNP_82305_A_3998	NW_004516117.1	scaffold717	3998	CC	AA	AA	INTERGENIC			
SNP_82306_A_4144	NW_004516117.1	scaffold717	4144	TT	AA	AA	INTERGENIC			
SNP_82307_A_2324	NW_004516118.1	scaffold719	2324	TT	CC	CC	INTERGENIC			
SNP_82308_A_2405	NW_004516118.1	scaffold719	2405	TT	CC	CC	INTERGENIC			
SNP_82309_A_9750	NW_004516118.1	scaffold719	9750	AA	GG	GG	INTERGENIC			
SNP_82310_A_9873	NW_004516118.1	scaffold719	9873	GG	TT	TT	INTERGENIC			
SNP_82311_A_9936	NW_004516118.1	scaffold719	9936	AA	TT	TT	INTERGENIC			
SNP_82312_A_9937	NW_004516118.1	scaffold719	9937	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82313_A_10035	NW_004516118.1	scaffold719	10035	GG	AA	AA	INTERGENIC			
SNP_82314_A_10038	NW_004516118.1	scaffold719	10038	AA	TT	TT	INTERGENIC			
SNP_82315_A_12135	NW_004516118.1	scaffold719	12135	GG	TT	TT	INTERGENIC			
SNP_82316_A_12139	NW_004516118.1	scaffold719	12139	TT	GG	GG	INTERGENIC			
SNP_82317_A_12164	NW_004516118.1	scaffold719	12164	CC	AA	AA	INTERGENIC			
SNP_82318_A_12204	NW_004516118.1	scaffold719	12204	TT	AA	AA	INTERGENIC			
SNP_82319_A_12446	NW_004516118.1	scaffold719	12446	AA	GG	GG	INTERGENIC			
SNP_82320_A_12488	NW_004516118.1	scaffold719	12488	GG	AA	AA	INTERGENIC			
SNP_82321_A_12495	NW_004516118.1	scaffold719	12495	TT	GG	GG	INTERGENIC			
SNP_82322_A_12498	NW_004516118.1	scaffold719	12498	AA	GG	GG	INTERGENIC			
SNP_82323_A_12499	NW_004516118.1	scaffold719	12499	TT	CC	CC	INTERGENIC			
SNP_82324_A_12519	NW_004516118.1	scaffold719	12519	AA	CC	CC	INTERGENIC			
SNP_82325_A_12577	NW_004516118.1	scaffold719	12577	TT	CC	CC	INTERGENIC			
SNP_82326_A_12656	NW_004516118.1	scaffold719	12656	AA	GG	GG	INTERGENIC			
SNP_82327_A_14450	NW_004516118.1	scaffold719	14450	TT	CC	CC	INTERGENIC			
SNP_82328_A_14756	NW_004516118.1	scaffold719	14756	AA	GG	GG	INTERGENIC			
SNP_82329_A_14849	NW_004516118.1	scaffold719	14849	GG	AA	AA	INTERGENIC			
SNP_82330_A_14922	NW_004516118.1	scaffold719	14922	GG	TT	TT	INTERGENIC			
SNP_82331_A_14924	NW_004516118.1	scaffold719	14924	TT	GG	GG	INTERGENIC			
SNP_82332_A_28308	NW_004516118.1	scaffold719	28308	GG	AA	AA	INTERGENIC			
SNP_82333_A_32264	NW_004516118.1	scaffold719	32264	AA	CC	CC	INTERGENIC			
SNP_82334_A_41821	NW_004516118.1	scaffold719	41821	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82335_A_44995	NW_004516118.1	scaffold719	44995	CC	GG	GG	INTERGENIC			
SNP_82336_A_48471	NW_004516118.1	scaffold719	48471	CC	TT	TT	INTERGENIC			
SNP_82337_A_54082	NW_004516118.1	scaffold719	54082	TT	CC	CC	INTERGENIC			
SNP_82338_A_85036	NW_004516118.1	scaffold719	85036	GG	TT	TT	INTERGENIC			
SNP_82339_A_85082	NW_004516118.1	scaffold719	85082	CC	TT	TT	INTERGENIC			
SNP_82340_A_85091	NW_004516118.1	scaffold719	85091	TT	AA	AA	INTERGENIC			
SNP_82341_A_85107	NW_004516118.1	scaffold719	85107	TT	CC	CC	INTERGENIC			
SNP_82342_A_85291	NW_004516118.1	scaffold719	85291	GG	AA	AA	INTERGENIC			
SNP_82343_A_98414	NW_004516118.1	scaffold719	98414	AA	TT	TT	INTERGENIC			
SNP_82344_A_101210	NW_004516118.1	scaffold719	101210	AA	GG	GG	INTERGENIC			
SNP_82345_A_108775	NW_004516118.1	scaffold719	108775	TT	GG	GG	INTERGENIC			
SNP_82346_A_108776	NW_004516118.1	scaffold719	108776	GG	TT	TT	INTERGENIC			
SNP_82347_A_108780	NW_004516118.1	scaffold719	108780	GG	AA	AA	INTERGENIC			
SNP_82348_A_108799	NW_004516118.1	scaffold719	108799	GG	AA	AA	INTERGENIC			
SNP_82349_A_108837	NW_004516118.1	scaffold719	108837	CC	TT	TT	INTERGENIC			
SNP_82350_A_108847	NW_004516118.1	scaffold719	108847	AA	GG	GG	INTERGENIC			
SNP_82351_A_108858	NW_004516118.1	scaffold719	108858	AA	GG	GG	INTERGENIC			
SNP_82352_A_108891	NW_004516118.1	scaffold719	108891	AA	TT	TT	INTERGENIC			
SNP_82353_A_108893	NW_004516118.1	scaffold719	108893	AA	GG	GG	INTERGENIC			
SNP_82354_A_108894	NW_004516118.1	scaffold719	108894	CC	TT	TT	INTERGENIC			
SNP_82355_A_110496	NW_004516118.1	scaffold719	110496	AA	GG	GG	INTERGENIC			
SNP_82356_A_110755	NW_004516118.1	scaffold719	110755	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82357_A_111051	NW_004516118.1	scaffold719	111051	CC	TT	TT	INTERGENIC			
SNP_82358_A_114589	NW_004516118.1	scaffold719	114589	GG	TT	TT	INTERGENIC			
SNP_82359_A_114590	NW_004516118.1	scaffold719	114590	GG	AA	AA	INTERGENIC			
SNP_82360_A_114592	NW_004516118.1	scaffold719	114592	GG	AA	AA	INTERGENIC			
SNP_82361_A_114597	NW_004516118.1	scaffold719	114597	CC	AA	AA	INTERGENIC			
SNP_82362_A_114603	NW_004516118.1	scaffold719	114603	GG	TT	TT	INTERGENIC			
SNP_82363_A_123432	NW_004516118.1	scaffold719	123432	TT	CC	CC	INTERGENIC			
SNP_82364_A_123491	NW_004516118.1	scaffold719	123491	CC	GG	GG	INTERGENIC			
SNP_82365_A_123492	NW_004516118.1	scaffold719	123492	TT	CC	CC	INTERGENIC			
SNP_82366_A_123532	NW_004516118.1	scaffold719	123532	TT	AA	AA	INTERGENIC			
SNP_82367_A_123584	NW_004516118.1	scaffold719	123584	AA	TT	TT	INTERGENIC			
SNP_82368_A_123702	NW_004516118.1	scaffold719	123702	AA	GG	GG	INTERGENIC			
SNP_82369_A_123714	NW_004516118.1	scaffold719	123714	TT	GG	GG	INTERGENIC			
SNP_82371_A_123770	NW_004516118.1	scaffold719	123770	CC	AA	AA	INTERGENIC			
SNP_82372_A_123785	NW_004516118.1	scaffold719	123785	AA	TT	TT	INTERGENIC			
SNP_82373_A_124737	NW_004516118.1	scaffold719	124737	TT	CC	CC	INTERGENIC			
SNP_82374_A_125171	NW_004516118.1	scaffold719	125171	TT	AA	AA	INTERGENIC			
SNP_82375_A_128526	NW_004516118.1	scaffold719	128526	TT	CC	CC	INTERGENIC			
SNP_82376_A_128594	NW_004516118.1	scaffold719	128594	TT	CC	CC	INTERGENIC			
SNP_82377_A_128616	NW_004516118.1	scaffold719	128616	AA	TT	TT	INTERGENIC			
SNP_82379_A_961	NW_004516119.1	scaffold720	961	CC	TT	TT	INTERGENIC			
SNP_82380_A_963	NW_004516119.1	scaffold720	963	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82381_A_1025	NW_004516119.1	scaffold720	1025	AA	CC	CC	INTERGENIC			
SNP_82382_A_1026	NW_004516119.1	scaffold720	1026	AA	GG	GG	INTERGENIC			
SNP_82383_A_1277	NW_004516119.1	scaffold720	1277	TT	AA	AA	INTERGENIC			
SNP_82384_A_1314	NW_004516119.1	scaffold720	1314	AA	TT	TT	INTERGENIC			
SNP_82385_A_1371	NW_004516119.1	scaffold720	1371	CC	TT	TT	INTERGENIC			
SNP_82386_A_18790	NW_004516119.1	scaffold720	18790	TT	AA	AA	INTERGENIC			
SNP_82387_A_18875	NW_004516119.1	scaffold720	18875	TT	GG	GG	INTERGENIC			
SNP_82388_A_18985	NW_004516119.1	scaffold720	18985	GG	CC	CC	INTERGENIC			
SNP_82389_A_77408	NW_004516119.1	scaffold720	77408	TT	AA	AA	INTERGENIC			
SNP_82390_A_211338	NW_004516119.1	scaffold720	211338	AA	GG	GG	INTERGENIC			
SNP_82391_A_221334	NW_004516119.1	scaffold720	221334	TT	CC	CC	INTERGENIC			
SNP_82392_A_221336	NW_004516119.1	scaffold720	221336	GG	TT	TT	INTERGENIC			
SNP_82393_A_222510	NW_004516119.1	scaffold720	222510	CC	TT	TT	INTERGENIC			
SNP_82394_A_223283	NW_004516119.1	scaffold720	223283	AA	TT	TT	INTERGENIC			
SNP_82395_A_223302	NW_004516119.1	scaffold720	223302	TT	CC	CC	INTERGENIC			
SNP_82396_A_223315	NW_004516119.1	scaffold720	223315	AA	CC	CC	INTERGENIC			
SNP_82397_A_252570	NW_004516119.1	scaffold720	252570	AA	GG	GG	INTERGENIC			
SNP_82398_A_289537	NW_004516119.1	scaffold720	289537	TT	CC	CC	INTERGENIC			
SNP_82399_A_296689	NW_004516119.1	scaffold720	296689	TT	AA	AA	INTERGENIC			
SNP_82400_A_296865	NW_004516119.1	scaffold720	296865	AA	GG	GG	INTERGENIC			
SNP_82401_A_296871	NW_004516119.1	scaffold720	296871	TT	GG	GG	INTERGENIC			
SNP_82402_A_297034	NW_004516119.1	scaffold720	297034	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82403_A_297071	NW_004516119.1	scaffold720	297071	TT	CC	CC	INTERGENIC			
SNP_82404_A_297195	NW_004516119.1	scaffold720	297195	AA	GG	GG	INTERGENIC			
SNP_82405_A_297250	NW_004516119.1	scaffold720	297250	AA	CC	CC	INTERGENIC			
SNP_82406_A_297258	NW_004516119.1	scaffold720	297258	CC	TT	TT	INTERGENIC			
SNP_82407_A_297268	NW_004516119.1	scaffold720	297268	AA	GG	GG	INTERGENIC			
SNP_82408_A_297281	NW_004516119.1	scaffold720	297281	GG	AA	AA	INTERGENIC			
SNP_82409_A_297341	NW_004516119.1	scaffold720	297341	AA	CC	CC	INTERGENIC			
SNP_82410_A_297342	NW_004516119.1	scaffold720	297342	GG	AA	AA	INTERGENIC			
SNP_82411_A_297452	NW_004516119.1	scaffold720	297452	CC	TT	TT	INTERGENIC			
SNP_82412_A_297522	NW_004516119.1	scaffold720	297522	AA	CC	CC	INTERGENIC			
SNP_82413_A_297529	NW_004516119.1	scaffold720	297529	AA	GG	GG	INTERGENIC			
SNP_82414_A_297652	NW_004516119.1	scaffold720	297652	GG	AA	AA	INTERGENIC			
SNP_82415_A_297690	NW_004516119.1	scaffold720	297690	GG	AA	AA	INTERGENIC			
SNP_82416_A_297729	NW_004516119.1	scaffold720	297729	CC	AA	AA	INTERGENIC			
SNP_82417_A_297747	NW_004516119.1	scaffold720	297747	AA	GG	GG	INTERGENIC			
SNP_82418_A_297797	NW_004516119.1	scaffold720	297797	AA	CC	CC	INTERGENIC			
SNP_82419_A_297886	NW_004516119.1	scaffold720	297886	TT	GG	GG	INTERGENIC			
SNP_82420_A_298216	NW_004516119.1	scaffold720	298216	GG	AA	AA	INTERGENIC			
SNP_82421_A_298283	NW_004516119.1	scaffold720	298283	TT	CC	CC	INTERGENIC			
SNP_82422_A_299038	NW_004516119.1	scaffold720	299038	GG	TT	TT	INTERGENIC			
SNP_82423_A_299056	NW_004516119.1	scaffold720	299056	TT	CC	CC	INTERGENIC			
SNP_82424_A_302556	NW_004516119.1	scaffold720	302556	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82425_A_327324	NW_004516119.1	scaffold720	327324	CC	GG	GG	INTERGENIC			
SNP_82426_A_327341	NW_004516119.1	scaffold720	327341	GG	AA	AA	INTERGENIC			
SNP_82427_A_327372	NW_004516119.1	scaffold720	327372	CC	TT	TT	INTERGENIC			
SNP_82428_A_329815	NW_004516119.1	scaffold720	329815	AA	GG	GG	INTERGENIC			
SNP_82429_A_329831	NW_004516119.1	scaffold720	329831	GG	TT	TT	INTERGENIC			
SNP_82430_A_329851	NW_004516119.1	scaffold720	329851	TT	AA	AA	INTERGENIC			
SNP_82431_A_330206	NW_004516119.1	scaffold720	330206	TT	CC	CC	INTERGENIC			
SNP_82432_A_330297	NW_004516119.1	scaffold720	330297	CC	AA	AA	INTERGENIC			
SNP_82433_A_330346	NW_004516119.1	scaffold720	330346	TT	AA	AA	INTERGENIC			
SNP_82434_A_330373	NW_004516119.1	scaffold720	330373	CC	AA	AA	INTERGENIC			
SNP_82435_A_330841	NW_004516119.1	scaffold720	330841	CC	GG	GG	INTERGENIC			
SNP_82436_A_330900	NW_004516119.1	scaffold720	330900	AA	GG	GG	INTERGENIC			
SNP_82437_A_330903	NW_004516119.1	scaffold720	330903	GG	TT	TT	INTERGENIC			
SNP_82438_A_330926	NW_004516119.1	scaffold720	330926	TT	AA	AA	INTERGENIC			
SNP_82439_A_331016	NW_004516119.1	scaffold720	331016	GG	TT	TT	INTERGENIC			
SNP_82440_A_331170	NW_004516119.1	scaffold720	331170	CC	TT	TT	INTERGENIC			
SNP_82441_A_331171	NW_004516119.1	scaffold720	331171	AA	GG	GG	INTERGENIC			
SNP_82442_A_331172	NW_004516119.1	scaffold720	331172	GG	AA	AA	INTERGENIC			
SNP_82443_A_333005	NW_004516119.1	scaffold720	333005	TT	CC	CC	INTERGENIC			
SNP_82444_A_333020	NW_004516119.1	scaffold720	333020	CC	TT	TT	INTERGENIC			
SNP_82445_A_333026	NW_004516119.1	scaffold720	333026	GG	AA	AA	INTERGENIC			
SNP_82446_A_333055	NW_004516119.1	scaffold720	333055	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82447_A_333062	NW_004516119.1	scaffold720	333062	GG	CC	CC	INTERGENIC			
SNP_82448_A_333312	NW_004516119.1	scaffold720	333312	GG	TT	TT	INTERGENIC			
SNP_82449_A_333578	NW_004516119.1	scaffold720	333578	GG	TT	TT	INTERGENIC			
SNP_82450_A_333608	NW_004516119.1	scaffold720	333608	GG	AA	AA	INTERGENIC			
SNP_82451_A_333618	NW_004516119.1	scaffold720	333618	CC	AA	AA	INTERGENIC			
SNP_82452_A_336807	NW_004516119.1	scaffold720	336807	AA	GG	GG	INTERGENIC			
SNP_82453_A_336812	NW_004516119.1	scaffold720	336812	TT	GG	GG	INTERGENIC			
SNP_82454_A_337076	NW_004516119.1	scaffold720	337076	AA	TT	TT	INTERGENIC			
SNP_82455_A_337210	NW_004516119.1	scaffold720	337210	CC	TT	TT	INTERGENIC			
SNP_82456_A_337332	NW_004516119.1	scaffold720	337332	AA	CC	CC	INTERGENIC			
SNP_82457_A_337391	NW_004516119.1	scaffold720	337391	TT	CC	CC	INTERGENIC			
SNP_82458_A_337456	NW_004516119.1	scaffold720	337456	AA	GG	GG	INTERGENIC			
SNP_82459_A_337607	NW_004516119.1	scaffold720	337607	AA	TT	TT	INTERGENIC			
SNP_82460_A_337691	NW_004516119.1	scaffold720	337691	AA	CC	CC	INTERGENIC			
SNP_82461_A_338153	NW_004516119.1	scaffold720	338153	AA	GG	GG	INTERGENIC			
SNP_82462_A_338192	NW_004516119.1	scaffold720	338192	TT	GG	GG	INTERGENIC			
SNP_82463_A_342120	NW_004516119.1	scaffold720	342120	AA	GG	GG	INTERGENIC			
SNP_82464_A_342300	NW_004516119.1	scaffold720	342300	GG	AA	AA	INTERGENIC			
SNP_82465_A_344763	NW_004516119.1	scaffold720	344763	TT	AA	AA	INTERGENIC			
SNP_82466_A_344828	NW_004516119.1	scaffold720	344828	GG	AA	AA	INTERGENIC			
SNP_82467_A_344858	NW_004516119.1	scaffold720	344858	GG	CC	CC	INTERGENIC			
SNP_82468_A_345052	NW_004516119.1	scaffold720	345052	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82469_A_345138	NW_004516119.1	scaffold720	345138	GG	TT	TT	INTERGENIC		
SNP_82470_A_345201	NW_004516119.1	scaffold720	345201	TT	CC	CC	INTERGENIC		
SNP_82471_A_345202	NW_004516119.1	scaffold720	345202	AA	GG	GG	INTERGENIC		
SNP_82472_A_345389	NW_004516119.1	scaffold720	345389	TT	CC	CC	INTERGENIC		
SNP_82473_A_353796	NW_004516119.1	scaffold720	353796	TT	CC	CC	INTERGENIC		
SNP_82474_A_362943	NW_004516119.1	scaffold720	362943	AA	GG	GG	INTERGENIC		
SNP_82475_A_365920	NW_004516119.1	scaffold720	365920	TT	AA	AA	INTRON	101500732	Unknown function
SNP_82476_A_365943	NW_004516119.1	scaffold720	365943	AA	GG	GG	INTRON	101500732	Unknown function
SNP_82477_A_365971	NW_004516119.1	scaffold720	365971	TT	CC	CC	INTRON	101500732	Unknown function
SNP_82478_A_370011	NW_004516119.1	scaffold720	370011	GG	TT	TT	DRR	101499563	uncharacterized LOC101499563
SNP_82479_A_370028	NW_004516119.1	scaffold720	370028	GG	AA	AA	DRR	101499563	uncharacterized LOC101499563
SNP_82480_A_370067	NW_004516119.1	scaffold720	370067	AA	TT	TT	DRR	101499563	uncharacterized LOC101499563
SNP_82481_A_370070	NW_004516119.1	scaffold720	370070	AA	GG	GG	DRR	101499563	uncharacterized LOC101499563
SNP_82482_A_370137	NW_004516119.1	scaffold720	370137	TT	CC	CC	DRR	101499563	uncharacterized LOC101499563
SNP_82483_A_370223	NW_004516119.1	scaffold720	370223	GG	AA	AA	DRR	101499563	uncharacterized LOC101499563
SNP_82484_A_370224	NW_004516119.1	scaffold720	370224	AA	GG	GG	DRR	101499563	uncharacterized LOC101499563
SNP_82485_A_370229	NW_004516119.1	scaffold720	370229	AA	CC	CC	DRR	101499563	uncharacterized LOC101499563
SNP_82486_A_370297	NW_004516119.1	scaffold720	370297	CC	TT	TT	DRR	101499563	uncharacterized LOC101499563
SNP_82487_A_370374	NW_004516119.1	scaffold720	370374	TT	CC	CC	URR	101500732	Unknown function
SNP_82488_A_370465	NW_004516119.1	scaffold720	370465	TT	AA	AA	URR	101500732	Unknown function
SNP_82489_A_370559	NW_004516119.1	scaffold720	370559	GG	CC	CC	URR	101500732	Unknown function
SNP_82490_A_370639	NW_004516119.1	scaffold720	370639	TT	AA	AA	URR	101500732	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82491_A_370725	NW_004516119.1	scaffold720	370725	AA	GG	GG	URR	101500732	Unknown function
SNP_82492_A_370814	NW_004516119.1	scaffold720	370814	GG	AA	AA	URR	101500732	Unknown function
SNP_82493_A_370924	NW_004516119.1	scaffold720	370924	CC	AA	AA	URR	101500732	Unknown function
SNP_82494_A_371463	NW_004516119.1	scaffold720	371463	AA	TT	TT	URR	101500732	Unknown function
SNP_82495_A_371609	NW_004516119.1	scaffold720	371609	TT	CC	CC	INTRON	id204863	Unknown function
SNP_82496_A_371637	NW_004516119.1	scaffold720	371637	GG	AA	AA	INTRON	id204863	Unknown function
SNP_82497_A_371886	NW_004516119.1	scaffold720	371886	GG	AA	AA	URR	101499563	uncharacterized LOC101499563
SNP_82499_A_15672	NW_004516120.1	scaffold721	15672	TT	AA	AA	INTERGENIC		
SNP_82501_A_77608	NW_004516120.1	scaffold721	77608	TT	CC	CC	INTERGENIC		
SNP_82502_A_79040	NW_004516120.1	scaffold721	79040	TT	AA	AA	INTERGENIC		
SNP_82503_A_80744	NW_004516120.1	scaffold721	80744	CC	TT	TT	INTERGENIC		
SNP_82504_A_80760	NW_004516120.1	scaffold721	80760	CC	TT	TT	INTERGENIC		
SNP_82505_A_80765	NW_004516120.1	scaffold721	80765	GG	AA	AA	INTERGENIC		
SNP_82506_A_81630	NW_004516120.1	scaffold721	81630	AA	GG	GG	INTERGENIC		
SNP_82507_A_106828	NW_004516120.1	scaffold721	106828	AA	CC	CC	INTERGENIC		
SNP_82508_A_106864	NW_004516120.1	scaffold721	106864	TT	CC	CC	INTERGENIC		
SNP_82509_A_106875	NW_004516120.1	scaffold721	106875	TT	AA	AA	INTERGENIC		
SNP_82510_A_106882	NW_004516120.1	scaffold721	106882	TT	CC	CC	INTERGENIC		
SNP_82511_A_106909	NW_004516120.1	scaffold721	106909	GG	AA	AA	INTERGENIC		
SNP_82512_A_107367	NW_004516120.1	scaffold721	107367	GG	AA	AA	INTERGENIC		
SNP_82513_A_107401	NW_004516120.1	scaffold721	107401	GG	AA	AA	INTERGENIC		
SNP_82514_A_111133	NW_004516120.1	scaffold721	111133	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82515_A_111143	NW_004516120.1	scaffold721	111143	TT	GG	GG	INTERGENIC			
SNP_82516_A_161285	NW_004516120.1	scaffold721	161285	GG	TT	TT	INTERGENIC			
SNP_82517_A_163637	NW_004516120.1	scaffold721	163637	TT	CC	CC	INTERGENIC			
SNP_82518_A_163638	NW_004516120.1	scaffold721	163638	TT	CC	CC	INTERGENIC			
SNP_82519_A_183436	NW_004516120.1	scaffold721	183436	CC	TT	TT	INTERGENIC			
SNP_82520_A_187782	NW_004516120.1	scaffold721	187782	CC	GG	GG	INTERGENIC			
SNP_82521_A_190489	NW_004516120.1	scaffold721	190489	AA	GG	GG	INTERGENIC			
SNP_82522_A_190492	NW_004516120.1	scaffold721	190492	AA	GG	GG	INTERGENIC			
SNP_82523_A_190695	NW_004516120.1	scaffold721	190695	TT	CC	CC	INTERGENIC			
SNP_82524_A_191042	NW_004516120.1	scaffold721	191042	TT	AA	AA	INTERGENIC			
SNP_82525_A_191055	NW_004516120.1	scaffold721	191055	TT	GG	GG	INTERGENIC			
SNP_82527_A_1314	NW_004516121.1	scaffold723	1314	TT	CC	CC	INTERGENIC			
SNP_82528_A_10731	NW_004516121.1	scaffold723	10731	AA	GG	GG	INTERGENIC			
SNP_82529_A_10788	NW_004516121.1	scaffold723	10788	AA	CC	CC	INTERGENIC			
SNP_82530_A_10791	NW_004516121.1	scaffold723	10791	GG	CC	CC	INTERGENIC			
SNP_82531_A_10803	NW_004516121.1	scaffold723	10803	TT	GG	GG	INTERGENIC			
SNP_82532_A_10845	NW_004516121.1	scaffold723	10845	CC	AA	AA	INTERGENIC			
SNP_82533_A_57243	NW_004516122.1	scaffold724	57243	TT	GG	GG	INTERGENIC			
SNP_82534_A_91988	NW_004516122.1	scaffold724	91988	TT	CC	CC	INTRON	101503827	uncharacterized LOC101503827	
SNP_82535_A_92008	NW_004516122.1	scaffold724	92008	TT	CC	CC	INTRON	101503827	uncharacterized LOC101503827	
SNP_82536_A_92027	NW_004516122.1	scaffold724	92027	TT	CC	CC	INTRON	101503827	uncharacterized LOC101503827	
SNP_82537_A_99614	NW_004516122.1	scaffold724	99614	TT	CC	CC	DRR	101501892	(+)-neomenthol dehydrogenase-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82538_A_99654	NW_004516122.1	scaffold724	99654	AA	TT	TT	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82539_A_99720	NW_004516122.1	scaffold724	99720	TT	AA	AA	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82540_A_99758	NW_004516122.1	scaffold724	99758	TT	GG	GG	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82541_A_100070	NW_004516122.1	scaffold724	100070	GG	AA	AA	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82544_A_100270	NW_004516122.1	scaffold724	100270	TT	AA	AA	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82546_A_100364	NW_004516122.1	scaffold724	100364	CC	GG	GG	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82547_A_100430	NW_004516122.1	scaffold724	100430	TT	CC	CC	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82548_A_100443	NW_004516122.1	scaffold724	100443	AA	GG	GG	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82549_A_100456	NW_004516122.1	scaffold724	100456	AA	CC	CC	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82550_A_100461	NW_004516122.1	scaffold724	100461	AA	TT	TT	DRR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82552_A_101011	NW_004516122.1	scaffold724	101011	CC	TT	TT	SYNONYMOUS_CODING	101501892	(+)-neomenthol dehydrogenase-like
SNP_82553_A_101189	NW_004516122.1	scaffold724	101189	TT	CC	CC	SYNONYMOUS_CODING	101501892	(+)-neomenthol dehydrogenase-like
SNP_82554_A_103720	NW_004516122.1	scaffold724	103720	AA	CC	CC	URR	101501892	(+)-neomenthol dehydrogenase-like
SNP_82555_A_108596	NW_004516122.1	scaffold724	108596	TT	AA	AA	INTERGENIC		
SNP_82556_A_112415	NW_004516122.1	scaffold724	112415	CC	TT	TT	INTRON	101504143	(+)-neomenthol dehydrogenase-like
SNP_82557_A_112451	NW_004516122.1	scaffold724	112451	CC	TT	TT	INTRON	101504143	(+)-neomenthol dehydrogenase-like
SNP_82558_A_126302	NW_004516122.1	scaffold724	126302	CC	TT	TT	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82559_A_126346	NW_004516122.1	scaffold724	126346	AA	CC	CC	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82560_A_126354	NW_004516122.1	scaffold724	126354	CC	TT	TT	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82561_A_126458	NW_004516122.1	scaffold724	126458	TT	CC	CC	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82562_A_126732	NW_004516122.1	scaffold724	126732	TT	CC	CC	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82563_A_126733	NW_004516122.1	scaffold724	126733	CC	TT	TT	URR	101504143	(+)-neomenthol dehydrogenase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82566_A_126992	NW_004516122.1	scaffold724	126992	CC	TT	TT	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82566_A_127017	NW_004516122.1	scaffold724	127017	CC	AA	AA	URR	101504143	(+)-neomenthol dehydrogenase-like
SNP_82567_A_127280	NW_004516122.1	scaffold724	127280	CC	TT	TT	INTERGENIC		
SNP_82568_A_127526	NW_004516122.1	scaffold724	127526	GG	AA	AA	INTERGENIC		
SNP_82569_A_94	NW_004516123.1	scaffold725	94	AA	GG	GG	INTERGENIC		
SNP_82570_A_98	NW_004516123.1	scaffold725	98	AA	GG	GG	INTERGENIC		
SNP_82571_A_191	NW_004516123.1	scaffold725	191	AA	GG	GG	INTERGENIC		
SNP_82572_A_922	NW_004516123.1	scaffold725	922	GG	AA	AA	INTERGENIC		
SNP_82573_A_923	NW_004516123.1	scaffold725	923	AA	TT	TT	INTERGENIC		
SNP_82574_A_1568	NW_004516124.1	scaffold728	1568	TT	GG	GG	INTERGENIC		
SNP_82575_A_1573	NW_004516124.1	scaffold728	1573	TT	AA	AA	INTERGENIC		
SNP_82576_A_17175	NW_004516124.1	scaffold728	17175	TT	CC	CC	INTERGENIC		
SNP_82578_A_20344	NW_004516124.1	scaffold728	20344	AA	TT	TT	INTERGENIC		
SNP_82579_A_40657	NW_004516124.1	scaffold728	40657	CC	AA	AA	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82580_A_42145	NW_004516124.1	scaffold728	42145	CC	GG	GG	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82581_A_42583	NW_004516124.1	scaffold728	42583	CC	AA	AA	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82582_A_42741	NW_004516124.1	scaffold728	42741	AA	TT	TT	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82583_A_42866	NW_004516124.1	scaffold728	42866	GG	AA	AA	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82584_A_42883	NW_004516124.1	scaffold728	42883	CC	TT	TT	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82585_A_42921	NW_004516124.1	scaffold728	42921	TT	CC	CC	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82586_A_42971	NW_004516124.1	scaffold728	42971	TT	CC	CC	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82587_A_42974	NW_004516124.1	scaffold728	42974	TT	CC	CC	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82588_A_43271	NW_004516124.1	scaffold728	43271	GG	TT	TT	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82589_A_43279	NW_004516124.1	scaffold728	43279	GG	CC	CC	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82591_A_43728	NW_004516124.1	scaffold728	43728	TT	CC	CC	INTRON	101505521	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_82592_A_811	NW_004516125.1	scaffold731	811	AA	GG	GG	INTERGENIC		
SNP_82593_A_825	NW_004516125.1	scaffold731	825	GG	TT	TT	INTERGENIC		
SNP_82594_A_26434	NW_004516125.1	scaffold731	26434	TT	CC	CC	URR	101512707	ATP-dependent DNA helicase PIF1-like
SNP_82595_A_27127	NW_004516125.1	scaffold731	27127	AA	TT	TT	INTERGENIC		
SNP_82596_A_27384	NW_004516125.1	scaffold731	27384	TT	CC	CC	INTERGENIC		
SNP_82597_A_49047	NW_004516125.1	scaffold731	49047	TT	AA	AA	INTERGENIC		
SNP_82598_A_49264	NW_004516125.1	scaffold731	49264	CC	TT	TT	INTERGENIC		
SNP_82599_A_49483	NW_004516125.1	scaffold731	49483	AA	GG	GG	INTERGENIC		
SNP_82600_A_49519	NW_004516125.1	scaffold731	49519	TT	CC	CC	INTERGENIC		
SNP_82601_A_49569	NW_004516125.1	scaffold731	49569	GG	TT	TT	INTERGENIC		
SNP_82602_A_49573	NW_004516125.1	scaffold731	49573	CC	TT	TT	INTERGENIC		
SNP_82603_A_49595	NW_004516125.1	scaffold731	49595	GG	AA	AA	INTERGENIC		
SNP_82604_A_49596	NW_004516125.1	scaffold731	49596	TT	GG	GG	INTERGENIC		
SNP_82605_A_49610	NW_004516125.1	scaffold731	49610	AA	GG	GG	INTERGENIC		
SNP_82607_A_94777	NW_004516125.1	scaffold731	94777	TT	CC	CC	INTERGENIC		
SNP_82608_A_102778	NW_004516125.1	scaffold731	102778	TT	GG	GG	INTERGENIC		
SNP_82609_A_104675	NW_004516125.1	scaffold731	104675	CC	TT	TT	INTERGENIC		
SNP_82610_A_109784	NW_004516125.1	scaffold731	109784	AA	GG	GG	INTERGENIC		
SNP_82611_A_135531	NW_004516125.1	scaffold731	135531	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82612_A_135753	NW_004516125.1	scaffold731	135753	TT	CC	CC	INTERGENIC			
SNP_82613_A_135868	NW_004516125.1	scaffold731	135868	CC	TT	TT	INTERGENIC			
SNP_82614_A_135875	NW_004516125.1	scaffold731	135875	CC	GG	GG	INTERGENIC			
SNP_82615_A_135967	NW_004516125.1	scaffold731	135967	GG	AA	AA	INTERGENIC			
SNP_82616_A_136301	NW_004516125.1	scaffold731	136301	AA	TT	TT	INTERGENIC			
SNP_82617_A_139554	NW_004516125.1	scaffold731	139554	TT	CC	CC	INTERGENIC			
SNP_82618_A_144341	NW_004516125.1	scaffold731	144341	CC	TT	TT	INTERGENIC			
SNP_82619_A_145761	NW_004516125.1	scaffold731	145761	AA	GG	GG	INTERGENIC			
SNP_82620_A_145765	NW_004516125.1	scaffold731	145765	CC	TT	TT	INTERGENIC			
SNP_82621_A_170040	NW_004516125.1	scaffold731	170040	TT	CC	CC	INTERGENIC			
SNP_82622_A_170935	NW_004516125.1	scaffold731	170935	CC	TT	TT	INTERGENIC			
SNP_82623_A_184324	NW_004516125.1	scaffold731	184324	TT	GG	GG	INTERGENIC			
SNP_82624_A_205482	NW_004516125.1	scaffold731	205482	CC	GG	TT	INTERGENIC			
SNP_82625_A_206069	NW_004516125.1	scaffold731	206069	GG	AA	AA	INTERGENIC			
SNP_82626_A_214453	NW_004516125.1	scaffold731	214453	TT	GG	GG	INTERGENIC			
SNP_82627_A_259148	NW_004516125.1	scaffold731	259148	AA	GG	GG	INTERGENIC			
SNP_82629_A_286048	NW_004516125.1	scaffold731	286048	AA	TT	TT	INTERGENIC			
SNP_82630_A_293425	NW_004516125.1	scaffold731	293425	TT	AA	AA	INTERGENIC			
SNP_82631_A_300660	NW_004516125.1	scaffold731	300660	CC	TT	TT	INTERGENIC			
SNP_82632_A_300679	NW_004516125.1	scaffold731	300679	TT	CC	CC	INTERGENIC			
SNP_82633_A_300990	NW_004516125.1	scaffold731	300990	AA	GG	GG	INTERGENIC			
SNP_82634_A_310900	NW_004516125.1	scaffold731	310900	TT	CC	CC	URR	101507488	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82635_A_311089	NW_004516125.1	scaffold731	311089	CC	GG	GG	URR	101507488	Unknown function
SNP_82636_A_313056	NW_004516125.1	scaffold731	313056	GG	AA	AA	DRR	101506834	ribosomal protein L36
SNP_82637_A_313093	NW_004516125.1	scaffold731	313093	AA	GG	GG	DRR	101506834	ribosomal protein L36
SNP_82638_A_315344	NW_004516125.1	scaffold731	315344	TT	CC	CC	URR	101506834	ribosomal protein L36
SNP_82639_A_315563	NW_004516125.1	scaffold731	315563	TT	CC	CC	URR	101506834	ribosomal protein L36
SNP_82640_A_315575	NW_004516125.1	scaffold731	315575	GG	TT	TT	URR	101506834	ribosomal protein L36
SNP_82641_A_315859	NW_004516125.1	scaffold731	315859	CC	AA	AA	URR	101506834	ribosomal protein L36
SNP_82643_A_315913	NW_004516125.1	scaffold731	315913	GG	AA	AA	URR	101506834	ribosomal protein L36
SNP_82644_A_315925	NW_004516125.1	scaffold731	315925	TT	GG	GG	URR	101506834	ribosomal protein L36
SNP_82645_A_315953	NW_004516125.1	scaffold731	315953	TT	GG	GG	URR	101506834	ribosomal protein L36
SNP_82646_A_315987	NW_004516125.1	scaffold731	315987	GG	AA	AA	URR	101506834	ribosomal protein L36
SNP_82647_A_322323	NW_004516125.1	scaffold731	322323	GG	TT	TT	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_82649_A_322855	NW_004516125.1	scaffold731	322855	TT	CC	CC	DRR	101410558	transfer RNA methionine (anticodon CAU)
SNP_82651_A_323252	NW_004516125.1	scaffold731	323252	TT	AA	AA	URR	101410558	transfer RNA methionine (anticodon CAU)
SNP_82654_A_335021	NW_004516125.1	scaffold731	335021	AA	GG	GG	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82655_A_335072	NW_004516125.1	scaffold731	335072	GG	TT	TT	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82656_A_339423	NW_004516125.1	scaffold731	339423	GG	AA	AA	URR	101515319	Unknown function
SNP_82657_A_340744	NW_004516125.1	scaffold731	340744	TT	CC	CC	URR	101515319	Unknown function
SNP_82658_A_340893	NW_004516125.1	scaffold731	340893	TT	GG	GG	URR	101515319	Unknown function
SNP_82659_A_340986	NW_004516125.1	scaffold731	340986	TT	AA	AA	URR	101515319	Unknown function
SNP_82660_A_341071	NW_004516125.1	scaffold731	341071	TT	CC	CC	URR	101515319	Unknown function
SNP_82661_A_341144	NW_004516125.1	scaffold731	341144	GG	CC	CC	URR	101515319	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82662_A_342062	NW_004516125.1	scaffold731	342062	TT	CC	CC	INTERGENIC		
SNP_82663_A_342074	NW_004516125.1	scaffold731	342074	AA	GG	GG	INTERGENIC		
SNP_82665_A_343859	NW_004516125.1	scaffold731	343859	CC	TT	TT	INTERGENIC		
SNP_82666_A_343901	NW_004516125.1	scaffold731	343901	GG	TT	TT	INTERGENIC		
SNP_82667_A_347792	NW_004516125.1	scaffold731	347792	CC	TT	TT	INTERGENIC		
SNP_82668_A_347904	NW_004516125.1	scaffold731	347904	CC	GG	GG	INTERGENIC		
SNP_82669_A_347918	NW_004516125.1	scaffold731	347918	TT	AA	AA	INTERGENIC		
SNP_82670_A_347940	NW_004516125.1	scaffold731	347940	GG	AA	AA	INTERGENIC		
SNP_82671_A_347944	NW_004516125.1	scaffold731	347944	GG	AA	AA	INTERGENIC		
SNP_82672_A_348098	NW_004516125.1	scaffold731	348098	TT	CC	CC	INTERGENIC		
SNP_82675_A_360195	NW_004516125.1	scaffold731	360195	AA	GG	GG	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82676_A_361202	NW_004516125.1	scaffold731	361202	TT	CC	CC	DRR	101410560	transfer RNA valine (anticodon GAC)
SNP_82677_A_361553	NW_004516125.1	scaffold731	361553	CC	AA	AA	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82679_A_361626	NW_004516125.1	scaffold731	361626	GG	TT	TT	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82680_A_361644	NW_004516125.1	scaffold731	361644	TT	AA	AA	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82681_A_361786	NW_004516125.1	scaffold731	361786	TT	GG	GG	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82682_A_361818	NW_004516125.1	scaffold731	361818	TT	CC	CC	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82683_A_361834	NW_004516125.1	scaffold731	361834	AA	GG	GG	URR	101410560	transfer RNA valine (anticodon GAC)
SNP_82684_A_365663	NW_004516125.1	scaffold731	365663	CC	AA	AA	DRR	101510897	chloroplast envelope membrane protein
SNP_82685_A_366011	NW_004516125.1	scaffold731	366011	TT	CC	CC	DRR	101510897	chloroplast envelope membrane protein
SNP_82686_A_366051	NW_004516125.1	scaffold731	366051	TT	CC	CC	DRR	101510897	chloroplast envelope membrane protein
SNP_82688_A_366126	NW_004516125.1	scaffold731	366126	GG	CC	CC	DRR	101510897	chloroplast envelope membrane protein

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_82689_A_366156	NW_004516125.1	scaffold731	366156	AA	GG	GG	DRR	101510897	chloroplast envelope membrane protein
SNP_82690_A_369529	NW_004516125.1	scaffold731	369529	GG	AA	AA	DRR	101410596	transfer RNA arginine (anticodon ACG)
SNP_82691_A_369646	NW_004516125.1	scaffold731	369646	TT	CC	CC	DRR	101511210	uncharacterized LOC101511210
SNP_82692_A_369674	NW_004516125.1	scaffold731	369674	AA	GG	GG	DRR	101511210	uncharacterized LOC101511210
SNP_82693_A_369686	NW_004516125.1	scaffold731	369686	CC	TT	TT	DRR	101511210	uncharacterized LOC101511210
SNP_82694_A_369696	NW_004516125.1	scaffold731	369696	TT	CC	CC	DRR	101511210	uncharacterized LOC101511210
SNP_82695_A_369697	NW_004516125.1	scaffold731	369697	TT	CC	CC	DRR	101511210	uncharacterized LOC101511210
SNP_82696_A_369725	NW_004516125.1	scaffold731	369725	AA	GG	GG	DRR	101511210	uncharacterized LOC101511210
SNP_82697_A_369729	NW_004516125.1	scaffold731	369729	AA	CC	CC	DRR	101511210	uncharacterized LOC101511210
SNP_82703_A_14069	NW_004516127.1	scaffold735	14069	CC	TT	TT	INTERGENIC		
SNP_82704_A_14071	NW_004516127.1	scaffold735	14071	GG	TT	TT	INTERGENIC		
SNP_82705_A_14092	NW_004516127.1	scaffold735	14092	CC	AA	AA	INTERGENIC		
SNP_82706_A_15560	NW_004516127.1	scaffold735	15560	TT	CC	CC	INTERGENIC		
SNP_82708_A_54578	NW_004516127.1	scaffold735	54578	AA	CC	CC	INTERGENIC		
SNP_82709_A_54601	NW_004516127.1	scaffold735	54601	TT	CC	CC	INTERGENIC		
SNP_82710_A_54607	NW_004516127.1	scaffold735	54607	CC	AA	AA	INTERGENIC		
SNP_82711_A_71629	NW_004516127.1	scaffold735	71629	TT	CC	CC	INTERGENIC		
SNP_82712_A_152695	NW_004516127.1	scaffold735	152695	TT	CC	CC	DRR	101490796	cytokinin dehydrogenase 6-like
SNP_82713_A_186893	NW_004516127.1	scaffold735	186893	TT	CC	CC	INTERGENIC		
SNP_82714_A_187007	NW_004516127.1	scaffold735	187007	AA	TT	TT	INTERGENIC		
SNP_82715_A_187103	NW_004516127.1	scaffold735	187103	AA	GG	GG	INTERGENIC		
SNP_82716_A_187182	NW_004516127.1	scaffold735	187182	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82717_A_187196	NW_004516127.1	scaffold735	187196	CC	TT	TT	INTERGENIC			
SNP_82718_A_187213	NW_004516127.1	scaffold735	187213	GG	AA	AA	INTERGENIC			
SNP_82720_A_193843	NW_004516127.1	scaffold735	193843	CC	TT	TT	INTERGENIC			
SNP_82721_A_221986	NW_004516127.1	scaffold735	221986	CC	GG	GG	INTERGENIC			
SNP_82722_A_1166	NW_004516128.1	scaffold736	1166	CC	TT	TT	INTERGENIC			
SNP_82723_A_5939	NW_004516128.1	scaffold736	5939	CC	GG	GG	INTERGENIC			
SNP_82724_A_5950	NW_004516128.1	scaffold736	5950	TT	CC	CC	INTERGENIC			
SNP_82725_A_5956	NW_004516128.1	scaffold736	5956	TT	GG	GG	INTERGENIC			
SNP_82726_A_286	NW_004516130.1	scaffold738	286	TT	CC	CC	INTERGENIC			
SNP_82727_A_331	NW_004516130.1	scaffold738	331	AA	TT	TT	INTERGENIC			
SNP_82728_A_442	NW_004516130.1	scaffold738	442	CC	TT	TT	INTERGENIC			
SNP_82729_A_474	NW_004516130.1	scaffold738	474	GG	TT	TT	INTERGENIC			
SNP_82730_A_578	NW_004516130.1	scaffold738	578	AA	GG	GG	INTERGENIC			
SNP_82732_A_655	NW_004516130.1	scaffold738	655	GG	AA	AA	INTERGENIC			
SNP_82733_A_881	NW_004516130.1	scaffold738	881	AA	TT	TT	INTERGENIC			
SNP_82734_A_895	NW_004516130.1	scaffold738	895	GG	TT	TT	INTERGENIC			
SNP_82735_A_899	NW_004516130.1	scaffold738	899	AA	CC	CC	INTERGENIC			
SNP_82736_A_980	NW_004516130.1	scaffold738	980	TT	CC	CC	INTERGENIC			
SNP_82737_A_1010	NW_004516130.1	scaffold738	1010	CC	AA	AA	INTERGENIC			
SNP_82738_A_1078	NW_004516130.1	scaffold738	1078	GG	CC	CC	INTERGENIC			
SNP_82739_A_1289	NW_004516130.1	scaffold738	1289	CC	TT	TT	INTERGENIC			
SNP_82740_A_1338	NW_004516130.1	scaffold738	1338	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82741_A_1387	NW_004516130.1	scaffold738	1387	CC	TT	TT	INTERGENIC			
SNP_82742_A_1586	NW_004516130.1	scaffold738	1586	GG	AA	AA	INTERGENIC			
SNP_82743_A_1759	NW_004516130.1	scaffold738	1759	GG	AA	AA	INTERGENIC			
SNP_82744_A_2043	NW_004516130.1	scaffold738	2043	TT	CC	CC	INTERGENIC			
SNP_82745_A_2120	NW_004516130.1	scaffold738	2120	GG	CC	CC	INTERGENIC			
SNP_82747_A_2358	NW_004516130.1	scaffold738	2358	AA	GG	GG	INTERGENIC			
SNP_82748_A_2400	NW_004516130.1	scaffold738	2400	TT	CC	CC	INTERGENIC			
SNP_82749_A_2421	NW_004516130.1	scaffold738	2421	AA	CC	CC	INTERGENIC			
SNP_82750_A_2470	NW_004516130.1	scaffold738	2470	GG	AA	AA	INTERGENIC			
SNP_82751_A_2498	NW_004516130.1	scaffold738	2498	TT	CC	CC	INTERGENIC			
SNP_82752_A_4569	NW_004516130.1	scaffold738	4569	TT	CC	CC	INTERGENIC			
SNP_82753_A_4601	NW_004516130.1	scaffold738	4601	CC	TT	TT	INTERGENIC			
SNP_82754_A_4846	NW_004516130.1	scaffold738	4846	AA	GG	GG	INTERGENIC			
SNP_82755_A_4901	NW_004516130.1	scaffold738	4901	CC	TT	TT	INTERGENIC			
SNP_82756_A_4924	NW_004516130.1	scaffold738	4924	AA	GG	GG	INTERGENIC			
SNP_82757_A_4928	NW_004516130.1	scaffold738	4928	CC	AA	AA	INTERGENIC			
SNP_82758_A_5045	NW_004516130.1	scaffold738	5045	TT	GG	GG	INTERGENIC			
SNP_82760_A_5458	NW_004516130.1	scaffold738	5458	CC	TT	TT	INTERGENIC			
SNP_82761_A_5581	NW_004516130.1	scaffold738	5581	TT	CC	CC	INTERGENIC			
SNP_82762_A_5803	NW_004516130.1	scaffold738	5803	GG	AA	AA	INTERGENIC			
SNP_82763_A_6266	NW_004516130.1	scaffold738	6266	TT	GG	GG	INTERGENIC			
SNP_82764_A_7106	NW_004516130.1	scaffold738	7106	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82765_A_7218	NW_004516130.1	scaffold738	7218	TT	GG	GG	INTERGENIC			
SNP_82766_A_7273	NW_004516130.1	scaffold738	7273	AA	TT	TT	INTERGENIC			
SNP_82767_A_7284	NW_004516130.1	scaffold738	7284	AA	GG	GG	INTERGENIC			
SNP_82768_A_7331	NW_004516130.1	scaffold738	7331	CC	TT	TT	INTERGENIC			
SNP_82769_A_7381	NW_004516130.1	scaffold738	7381	TT	CC	CC	INTERGENIC			
SNP_82770_A_8708	NW_004516130.1	scaffold738	8708	CC	TT	TT	INTERGENIC			
SNP_82771_A_8760	NW_004516130.1	scaffold738	8760	CC	GG	GG	INTERGENIC			
SNP_82772_A_8877	NW_004516130.1	scaffold738	8877	TT	CC	CC	INTERGENIC			
SNP_82773_A_8878	NW_004516130.1	scaffold738	8878	CC	TT	TT	INTERGENIC			
SNP_82774_A_9158	NW_004516130.1	scaffold738	9158	TT	AA	AA	INTERGENIC			
SNP_82775_A_9247	NW_004516130.1	scaffold738	9247	TT	CC	CC	INTERGENIC			
SNP_82776_A_9265	NW_004516130.1	scaffold738	9265	AA	CC	CC	INTERGENIC			
SNP_82777_A_9296	NW_004516130.1	scaffold738	9296	CC	TT	TT	INTERGENIC			
SNP_82778_A_9299	NW_004516130.1	scaffold738	9299	AA	GG	GG	INTERGENIC			
SNP_82779_A_9423	NW_004516130.1	scaffold738	9423	GG	CC	CC	INTERGENIC			
SNP_82780_A_10646	NW_004516130.1	scaffold738	10646	TT	CC	CC	INTERGENIC			
SNP_82782_A_10786	NW_004516130.1	scaffold738	10786	AA	GG	GG	INTERGENIC			
SNP_82783_A_10825	NW_004516130.1	scaffold738	10825	AA	GG	GG	INTERGENIC			
SNP_82784_A_10826	NW_004516130.1	scaffold738	10826	AA	GG	GG	INTERGENIC			
SNP_82785_A_10840	NW_004516130.1	scaffold738	10840	AA	GG	GG	INTERGENIC			
SNP_82786_A_10846	NW_004516130.1	scaffold738	10846	TT	AA	AA	INTERGENIC			
SNP_82787_A_10851	NW_004516130.1	scaffold738	10851	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82788_A_11373	NW_004516138.1	scaffold738	11373	TT	GG	GG	INTERGENIC			
SNP_82791_A_1711	NW_004516138.1	scaffold749	1711	TT	AA	AA	INTERGENIC			
SNP_82792_A_2169	NW_004516138.1	scaffold749	2169	CC	TT	TT	INTERGENIC			
SNP_82793_A_4266	NW_004516138.1	scaffold749	4266	CC	TT	TT	INTERGENIC			
SNP_82794_A_4270	NW_004516138.1	scaffold749	4270	TT	GG	GG	INTERGENIC			
SNP_82795_A_4339	NW_004516138.1	scaffold749	4339	TT	CC	CC	INTERGENIC			
SNP_82796_A_4438	NW_004516138.1	scaffold749	4438	AA	TT	TT	INTERGENIC			
SNP_82797_A_4516	NW_004516138.1	scaffold749	4516	TT	GG	GG	INTERGENIC			
SNP_82798_A_4701	NW_004516138.1	scaffold749	4701	GG	AA	AA	INTERGENIC			
SNP_82799_A_4720	NW_004516138.1	scaffold749	4720	CC	TT	TT	INTERGENIC			
SNP_82800_A_4746	NW_004516138.1	scaffold749	4746	TT	CC	CC	INTERGENIC			
SNP_82801_A_4779	NW_004516138.1	scaffold749	4779	CC	TT	TT	INTERGENIC			
SNP_82802_A_4842	NW_004516138.1	scaffold749	4842	AA	TT	TT	INTERGENIC			
SNP_82803_A_9167	NW_004516138.1	scaffold749	9167	TT	GG	GG	INTERGENIC			
SNP_82804_A_13821	NW_004516138.1	scaffold749	13821	AA	GG	GG	INTERGENIC			
SNP_82805_A_13903	NW_004516138.1	scaffold749	13903	CC	TT	TT	INTERGENIC			
SNP_82806_A_13919	NW_004516138.1	scaffold749	13919	GG	AA	AA	INTERGENIC			
SNP_82807_A_13961	NW_004516138.1	scaffold749	13961	TT	CC	CC	INTERGENIC			
SNP_82808_A_13962	NW_004516138.1	scaffold749	13962	TT	AA	AA	INTERGENIC			
SNP_82809_A_14036	NW_004516138.1	scaffold749	14036	AA	TT	TT	INTERGENIC			
SNP_82810_A_14124	NW_004516138.1	scaffold749	14124	AA	GG	GG	INTERGENIC			
SNP_82811_A_14131	NW_004516138.1	scaffold749	14131	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82812_A_14194	NW_004516138.1	scaffold749	14194	TT	AA	AA	INTERGENIC			
SNP_82813_A_14203	NW_004516138.1	scaffold749	14203	GG	AA	AA	INTERGENIC			
SNP_82814_A_14236	NW_004516138.1	scaffold749	14236	GG	AA	AA	INTERGENIC			
SNP_82815_A_14283	NW_004516138.1	scaffold749	14283	TT	GG	GG	INTERGENIC			
SNP_82816_A_14324	NW_004516138.1	scaffold749	14324	CC	TT	TT	INTERGENIC			
SNP_82817_A_14385	NW_004516138.1	scaffold749	14385	TT	GG	GG	INTERGENIC			
SNP_82818_A_14565	NW_004516138.1	scaffold749	14565	AA	TT	TT	INTERGENIC			
SNP_82819_A_14625	NW_004516138.1	scaffold749	14625	GG	CC	CC	INTERGENIC			
SNP_82820_A_15150	NW_004516138.1	scaffold749	15150	CC	GG	GG	INTERGENIC			
SNP_82821_A_16414	NW_004516138.1	scaffold749	16414	TT	GG	GG	INTERGENIC			
SNP_82822_A_29741	NW_004516138.1	scaffold749	29741	AA	TT	TT	INTERGENIC			
SNP_82823_A_30024	NW_004516138.1	scaffold749	30024	TT	GG	GG	INTERGENIC			
SNP_82824_A_30133	NW_004516138.1	scaffold749	30133	AA	TT	TT	INTERGENIC			
SNP_82825_A_30266	NW_004516138.1	scaffold749	30266	TT	GG	GG	INTERGENIC			
SNP_82826_A_30273	NW_004516138.1	scaffold749	30273	TT	GG	GG	INTERGENIC			
SNP_82827_A_30278	NW_004516138.1	scaffold749	30278	GG	CC	CC	INTERGENIC			
SNP_82828_A_30280	NW_004516138.1	scaffold749	30280	TT	GG	GG	INTERGENIC			
SNP_82829_A_30287	NW_004516138.1	scaffold749	30287	TT	GG	GG	INTERGENIC			
SNP_82830_A_30294	NW_004516138.1	scaffold749	30294	TT	GG	GG	INTERGENIC			
SNP_82831_A_30696	NW_004516138.1	scaffold749	30696	AA	GG	GG	INTERGENIC			
SNP_82832_A_30722	NW_004516138.1	scaffold749	30722	TT	GG	GG	INTERGENIC			
SNP_82833_A_30755	NW_004516138.1	scaffold749	30755	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82834_A_36662	NW_004516138.1	scaffold749	36662	GG	AA	AA	INTERGENIC			
SNP_82835_A_38244	NW_004516138.1	scaffold749	38244	TT	AA	AA	INTERGENIC			
SNP_82836_A_52355	NW_004516138.1	scaffold749	52355	GG	AA	AA	INTERGENIC			
SNP_82837_A_52808	NW_004516138.1	scaffold749	52808	GG	TT	TT	INTERGENIC			
SNP_82838_A_59436	NW_004516138.1	scaffold749	59436	CC	GG	GG	INTERGENIC			
SNP_82839_A_59557	NW_004516138.1	scaffold749	59557	TT	GG	GG	INTERGENIC			
SNP_82840_A_59673	NW_004516138.1	scaffold749	59673	TT	AA	AA	INTERGENIC			
SNP_82841_A_59792	NW_004516138.1	scaffold749	59792	AA	CC	CC	INTERGENIC			
SNP_82842_A_59862	NW_004516138.1	scaffold749	59862	TT	GG	GG	INTERGENIC			
SNP_82843_A_60063	NW_004516138.1	scaffold749	60063	GG	AA	AA	INTERGENIC			
SNP_82844_A_61388	NW_004516138.1	scaffold749	61388	CC	TT	TT	INTERGENIC			
SNP_82845_A_1054	NW_004516139.1	scaffold750	1054	GG	AA	AA	INTERGENIC			
SNP_82846_A_1068	NW_004516139.1	scaffold750	1068	AA	CC	CC	INTERGENIC			
SNP_82847_A_19557	NW_004516139.1	scaffold750	19557	TT	GG	GG	INTERGENIC			
SNP_82848_A_19796	NW_004516139.1	scaffold750	19796	TT	CC	CC	INTERGENIC			
SNP_82849_A_19806	NW_004516139.1	scaffold750	19806	GG	TT	TT	INTERGENIC			
SNP_82850_A_20154	NW_004516139.1	scaffold750	20154	TT	CC	CC	INTERGENIC			
SNP_82851_A_30379	NW_004516139.1	scaffold750	30379	GG	AA	AA	INTERGENIC			
SNP_82852_A_30574	NW_004516139.1	scaffold750	30574	TT	CC	CC	INTERGENIC			
SNP_82853_A_30633	NW_004516139.1	scaffold750	30633	GG	AA	AA	INTERGENIC			
SNP_82854_A_30637	NW_004516139.1	scaffold750	30637	AA	TT	TT	INTERGENIC			
SNP_82855_A_30677	NW_004516139.1	scaffold750	30677	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82856_A_30750	NW_004516139.1	scaffold750	30750	CC	AA	AA	INTERGENIC			
SNP_82857_A_30844	NW_004516139.1	scaffold750	30844	AA	TT	TT	INTERGENIC			
SNP_82858_A_30987	NW_004516139.1	scaffold750	30987	CC	GG	GG	INTERGENIC			
SNP_82859_A_31003	NW_004516139.1	scaffold750	31003	GG	AA	AA	INTERGENIC			
SNP_82860_A_31014	NW_004516139.1	scaffold750	31014	TT	GG	GG	INTERGENIC			
SNP_82861_A_31069	NW_004516139.1	scaffold750	31069	CC	TT	TT	INTERGENIC			
SNP_82862_A_31086	NW_004516139.1	scaffold750	31086	TT	CC	CC	INTERGENIC			
SNP_82863_A_31126	NW_004516139.1	scaffold750	31126	AA	GG	GG	INTERGENIC			
SNP_82864_A_31752	NW_004516139.1	scaffold750	31752	CC	AA	AA	INTERGENIC			
SNP_82865_A_31756	NW_004516139.1	scaffold750	31756	TT	CC	CC	INTERGENIC			
SNP_82866_A_31797	NW_004516139.1	scaffold750	31797	TT	CC	CC	INTERGENIC			
SNP_82867_A_31817	NW_004516139.1	scaffold750	31817	AA	TT	TT	INTERGENIC			
SNP_82869_A_31965	NW_004516139.1	scaffold750	31965	GG	AA	AA	INTERGENIC			
SNP_82870_A_32114	NW_004516139.1	scaffold750	32114	AA	TT	TT	INTERGENIC			
SNP_82871_A_32139	NW_004516139.1	scaffold750	32139	CC	TT	TT	INTERGENIC			
SNP_82872_A_32347	NW_004516139.1	scaffold750	32347	TT	AA	AA	INTERGENIC			
SNP_82873_A_32349	NW_004516139.1	scaffold750	32349	TT	AA	AA	INTERGENIC			
SNP_82874_A_32355	NW_004516139.1	scaffold750	32355	TT	GG	GG	INTERGENIC			
SNP_82875_A_32369	NW_004516139.1	scaffold750	32369	AA	CC	CC	INTERGENIC			
SNP_82876_A_32425	NW_004516139.1	scaffold750	32425	TT	CC	CC	INTERGENIC			
SNP_82878_A_32550	NW_004516139.1	scaffold750	32550	TT	GG	GG	INTERGENIC			
SNP_82879_A_32583	NW_004516139.1	scaffold750	32583	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82880_A_32607	NW_004516139.1	scaffold750	32607	AA	GG	GG	INTERGENIC			
SNP_82881_A_32649	NW_004516139.1	scaffold750	32649	CC	GG	GG	INTERGENIC			
SNP_82882_A_32769	NW_004516139.1	scaffold750	32769	TT	GG	GG	INTERGENIC			
SNP_82883_A_32795	NW_004516139.1	scaffold750	32795	AA	TT	TT	INTERGENIC			
SNP_82884_A_33007	NW_004516139.1	scaffold750	33007	TT	GG	GG	INTERGENIC			
SNP_82885_A_33068	NW_004516139.1	scaffold750	33068	GG	TT	TT	INTERGENIC			
SNP_82886_A_33106	NW_004516139.1	scaffold750	33106	AA	CC	CC	INTERGENIC			
SNP_82887_A_33205	NW_004516139.1	scaffold750	33205	GG	AA	AA	INTERGENIC			
SNP_82888_A_33229	NW_004516139.1	scaffold750	33229	AA	GG	GG	INTERGENIC			
SNP_82889_A_33330	NW_004516139.1	scaffold750	33330	GG	TT	TT	INTERGENIC			
SNP_82890_A_33333	NW_004516139.1	scaffold750	33333	TT	CC	CC	INTERGENIC			
SNP_82891_A_33335	NW_004516139.1	scaffold750	33335	TT	AA	AA	INTERGENIC			
SNP_82892_A_33336	NW_004516139.1	scaffold750	33336	TT	AA	AA	INTERGENIC			
SNP_82893_A_33337	NW_004516139.1	scaffold750	33337	TT	AA	AA	INTERGENIC			
SNP_82894_A_33352	NW_004516139.1	scaffold750	33352	AA	GG	GG	INTERGENIC			
SNP_82895_A_33356	NW_004516139.1	scaffold750	33356	AA	TT	TT	INTERGENIC			
SNP_82896_A_33393	NW_004516139.1	scaffold750	33393	AA	GG	GG	INTERGENIC			
SNP_82897_A_33602	NW_004516139.1	scaffold750	33602	CC	TT	TT	INTERGENIC			
SNP_82898_A_33646	NW_004516139.1	scaffold750	33646	TT	CC	CC	INTERGENIC			
SNP_82899_A_33667	NW_004516139.1	scaffold750	33667	GG	AA	AA	INTERGENIC			
SNP_82900_A_33760	NW_004516139.1	scaffold750	33760	GG	CC	CC	INTERGENIC			
SNP_82901_A_33823	NW_004516139.1	scaffold750	33823	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82902_A_34018	NW_004516139.1	scaffold750	34018	GG	AA	AA	INTERGENIC			
SNP_82903_A_34023	NW_004516139.1	scaffold750	34023	TT	CC	CC	INTERGENIC			
SNP_82904_A_34065	NW_004516139.1	scaffold750	34065	AA	GG	GG	INTERGENIC			
SNP_82905_A_34117	NW_004516139.1	scaffold750	34117	CC	AA	AA	INTERGENIC			
SNP_82906_A_34187	NW_004516139.1	scaffold750	34187	GG	AA	AA	INTERGENIC			
SNP_82907_A_34264	NW_004516139.1	scaffold750	34264	TT	GG	GG	INTERGENIC			
SNP_82908_A_34357	NW_004516139.1	scaffold750	34357	GG	TT	TT	INTERGENIC			
SNP_82909_A_34489	NW_004516139.1	scaffold750	34489	AA	GG	GG	INTERGENIC			
SNP_82910_A_34576	NW_004516139.1	scaffold750	34576	CC	TT	TT	INTERGENIC			
SNP_82911_A_34628	NW_004516139.1	scaffold750	34628	GG	AA	AA	INTERGENIC			
SNP_82912_A_34650	NW_004516139.1	scaffold750	34650	GG	AA	AA	INTERGENIC			
SNP_82913_A_34685	NW_004516139.1	scaffold750	34685	GG	AA	AA	INTERGENIC			
SNP_82914_A_34754	NW_004516139.1	scaffold750	34754	TT	AA	AA	INTERGENIC			
SNP_82915_A_34787	NW_004516139.1	scaffold750	34787	TT	CC	CC	INTERGENIC			
SNP_82916_A_34792	NW_004516139.1	scaffold750	34792	CC	TT	TT	INTERGENIC			
SNP_82917_A_34955	NW_004516139.1	scaffold750	34955	TT	CC	CC	INTERGENIC			
SNP_82918_A_34966	NW_004516139.1	scaffold750	34966	CC	GG	GG	INTERGENIC			
SNP_82919_A_34985	NW_004516139.1	scaffold750	34985	GG	AA	AA	INTERGENIC			
SNP_82920_A_34987	NW_004516139.1	scaffold750	34987	TT	CC	CC	INTERGENIC			
SNP_82921_A_34998	NW_004516139.1	scaffold750	34998	AA	GG	GG	INTERGENIC			
SNP_82922_A_35039	NW_004516139.1	scaffold750	35039	AA	GG	GG	INTERGENIC			
SNP_82923_A_35045	NW_004516139.1	scaffold750	35045	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82924_A_35052	NW_004516139.1	scaffold750	35052	CC	GG	GG	INTERGENIC			
SNP_82925_A_35061	NW_004516139.1	scaffold750	35061	CC	TT	TT	INTERGENIC			
SNP_82926_A_35093	NW_004516139.1	scaffold750	35093	TT	AA	AA	INTERGENIC			
SNP_82927_A_35125	NW_004516139.1	scaffold750	35125	AA	TT	TT	INTERGENIC			
SNP_82928_A_35147	NW_004516139.1	scaffold750	35147	TT	CC	CC	INTERGENIC			
SNP_82929_A_35153	NW_004516139.1	scaffold750	35153	AA	CC	CC	INTERGENIC			
SNP_82930_A_35229	NW_004516139.1	scaffold750	35229	AA	GG	GG	INTERGENIC			
SNP_82931_A_35247	NW_004516139.1	scaffold750	35247	GG	AA	AA	INTERGENIC			
SNP_82932_A_35282	NW_004516139.1	scaffold750	35282	GG	CC	CC	INTERGENIC			
SNP_82933_A_36732	NW_004516139.1	scaffold750	36732	CC	TT	TT	INTERGENIC			
SNP_82934_A_36796	NW_004516139.1	scaffold750	36796	TT	CC	CC	INTERGENIC			
SNP_82935_A_36845	NW_004516139.1	scaffold750	36845	AA	GG	GG	INTERGENIC			
SNP_82936_A_37008	NW_004516139.1	scaffold750	37008	AA	TT	TT	INTERGENIC			
SNP_82937_A_37036	NW_004516139.1	scaffold750	37036	AA	GG	GG	INTERGENIC			
SNP_82938_A_37051	NW_004516139.1	scaffold750	37051	AA	GG	GG	INTERGENIC			
SNP_82939_A_37062	NW_004516139.1	scaffold750	37062	GG	TT	TT	INTERGENIC			
SNP_82940_A_37106	NW_004516139.1	scaffold750	37106	AA	GG	GG	INTERGENIC			
SNP_82941_A_37158	NW_004516139.1	scaffold750	37158	TT	GG	GG	INTERGENIC			
SNP_82942_A_37232	NW_004516139.1	scaffold750	37232	GG	AA	AA	INTERGENIC			
SNP_82943_A_37273	NW_004516139.1	scaffold750	37273	AA	GG	GG	INTERGENIC			
SNP_82944_A_37339	NW_004516139.1	scaffold750	37339	GG	AA	AA	INTERGENIC			
SNP_82945_A_37392	NW_004516139.1	scaffold750	37392	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82946_A_37399	NW_004516139.1	scaffold750	37399	TT	CC	CC	INTERGENIC			
SNP_82947_A_37401	NW_004516139.1	scaffold750	37401	GG	AA	AA	INTERGENIC			
SNP_82948_A_37593	NW_004516139.1	scaffold750	37593	AA	TT	TT	INTERGENIC			
SNP_82949_A_37599	NW_004516139.1	scaffold750	37599	TT	CC	CC	INTERGENIC			
SNP_82950_A_37600	NW_004516139.1	scaffold750	37600	GG	TT	TT	INTERGENIC			
SNP_82951_A_37601	NW_004516139.1	scaffold750	37601	TT	CC	CC	INTERGENIC			
SNP_82952_A_37602	NW_004516139.1	scaffold750	37602	CC	TT	TT	INTERGENIC			
SNP_82953_A_37649	NW_004516139.1	scaffold750	37649	AA	CC	CC	INTERGENIC			
SNP_82954_A_37727	NW_004516139.1	scaffold750	37727	GG	TT	TT	INTERGENIC			
SNP_82955_A_37751	NW_004516139.1	scaffold750	37751	TT	CC	CC	INTERGENIC			
SNP_82956_A_37757	NW_004516139.1	scaffold750	37757	GG	CC	CC	INTERGENIC			
SNP_82957_A_37926	NW_004516139.1	scaffold750	37926	GG	AA	AA	INTERGENIC			
SNP_82958_A_37994	NW_004516139.1	scaffold750	37994	CC	TT	TT	INTERGENIC			
SNP_82959_A_38014	NW_004516139.1	scaffold750	38014	GG	AA	AA	INTERGENIC			
SNP_82960_A_38098	NW_004516139.1	scaffold750	38098	CC	TT	TT	INTERGENIC			
SNP_82961_A_38204	NW_004516139.1	scaffold750	38204	CC	TT	TT	INTERGENIC			
SNP_82962_A_38374	NW_004516139.1	scaffold750	38374	AA	GG	GG	INTERGENIC			
SNP_82963_A_38431	NW_004516139.1	scaffold750	38431	GG	TT	TT	INTERGENIC			
SNP_82964_A_38462	NW_004516139.1	scaffold750	38462	AA	TT	TT	INTERGENIC			
SNP_82965_A_38496	NW_004516139.1	scaffold750	38496	TT	AA	AA	INTERGENIC			
SNP_82966_A_38573	NW_004516139.1	scaffold750	38573	GG	TT	TT	INTERGENIC			
SNP_82967_A_38648	NW_004516139.1	scaffold750	38648	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82968_A_38663	NW_004516139.1	scaffold750	38663	GG	TT	TT	INTERGENIC			
SNP_82969_A_38666	NW_004516139.1	scaffold750	38666	GG	AA	AA	INTERGENIC			
SNP_82970_A_38757	NW_004516139.1	scaffold750	38757	TT	AA	AA	INTERGENIC			
SNP_82971_A_38839	NW_004516139.1	scaffold750	38839	AA	CC	CC	INTERGENIC			
SNP_82972_A_38932	NW_004516139.1	scaffold750	38932	AA	CC	CC	INTERGENIC			
SNP_82973_A_38934	NW_004516139.1	scaffold750	38934	GG	TT	TT	INTERGENIC			
SNP_82975_A_39195	NW_004516139.1	scaffold750	39195	TT	AA	AA	INTERGENIC			
SNP_82976_A_39201	NW_004516139.1	scaffold750	39201	AA	CC	CC	INTERGENIC			
SNP_82977_A_39214	NW_004516139.1	scaffold750	39214	TT	CC	CC	INTERGENIC			
SNP_82978_A_39224	NW_004516139.1	scaffold750	39224	AA	TT	TT	INTERGENIC			
SNP_82979_A_39263	NW_004516139.1	scaffold750	39263	TT	CC	CC	INTERGENIC			
SNP_82980_A_39270	NW_004516139.1	scaffold750	39270	CC	GG	GG	INTERGENIC			
SNP_82981_A_39296	NW_004516139.1	scaffold750	39296	GG	TT	TT	INTERGENIC			
SNP_82982_A_39304	NW_004516139.1	scaffold750	39304	CC	AA	AA	INTERGENIC			
SNP_82983_A_39714	NW_004516139.1	scaffold750	39714	GG	TT	TT	INTERGENIC			
SNP_82984_A_44526	NW_004516139.1	scaffold750	44526	GG	AA	AA	INTERGENIC			
SNP_82985_A_49333	NW_004516139.1	scaffold750	49333	TT	CC	CC	INTERGENIC			
SNP_82986_A_58238	NW_004516139.1	scaffold750	58238	CC	GG	GG	INTERGENIC			
SNP_82987_A_58243	NW_004516139.1	scaffold750	58243	GG	CC	CC	INTERGENIC			
SNP_82988_A_58248	NW_004516139.1	scaffold750	58248	TT	CC	CC	INTERGENIC			
SNP_82989_A_58435	NW_004516139.1	scaffold750	58435	AA	TT	TT	INTERGENIC			
SNP_82990_A_58447	NW_004516139.1	scaffold750	58447	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_82991_A_58526	NW_004516139.1	scaffold750	58526	CC	GG	GG	INTERGENIC			
SNP_82992_A_58541	NW_004516139.1	scaffold750	58541	GG	AA	AA	INTERGENIC			
SNP_82993_A_58668	NW_004516139.1	scaffold750	58668	GG	AA	AA	INTERGENIC			
SNP_82995_A_58726	NW_004516139.1	scaffold750	58726	AA	GG	GG	INTERGENIC			
SNP_82996_A_58887	NW_004516139.1	scaffold750	58887	TT	GG	GG	INTERGENIC			
SNP_82997_A_58906	NW_004516139.1	scaffold750	58906	TT	CC	CC	INTERGENIC			
SNP_82998_A_58973	NW_004516139.1	scaffold750	58973	GG	TT	TT	INTERGENIC			
SNP_83000_A_59118	NW_004516139.1	scaffold750	59118	CC	GG	GG	INTERGENIC			
SNP_83001_A_59203	NW_004516139.1	scaffold750	59203	GG	AA	AA	INTERGENIC			
SNP_83003_A_59314	NW_004516139.1	scaffold750	59314	TT	AA	AA	INTERGENIC			
SNP_83004_A_59385	NW_004516139.1	scaffold750	59385	AA	CC	CC	INTERGENIC			
SNP_83005_A_59530	NW_004516139.1	scaffold750	59530	GG	TT	TT	INTERGENIC			
SNP_83006_A_59590	NW_004516139.1	scaffold750	59590	AA	TT	TT	INTERGENIC			
SNP_83007_A_59877	NW_004516139.1	scaffold750	59877	GG	TT	TT	INTERGENIC			
SNP_83008_A_59917	NW_004516139.1	scaffold750	59917	TT	AA	AA	INTERGENIC			
SNP_83009_A_59973	NW_004516139.1	scaffold750	59973	CC	GG	GG	INTERGENIC			
SNP_83010_A_60010	NW_004516139.1	scaffold750	60010	GG	TT	TT	INTERGENIC			
SNP_83011_A_60028	NW_004516139.1	scaffold750	60028	CC	TT	TT	INTERGENIC			
SNP_83012_A_60131	NW_004516139.1	scaffold750	60131	GG	TT	TT	INTERGENIC			
SNP_83013_A_60161	NW_004516139.1	scaffold750	60161	CC	TT	TT	INTERGENIC			
SNP_83014_A_60175	NW_004516139.1	scaffold750	60175	AA	TT	TT	INTERGENIC			
SNP_83015_A_60192	NW_004516139.1	scaffold750	60192	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83016_A_60199	NW_004516139.1	scaffold750	60199	AA	GG	GG	INTERGENIC			
SNP_83017_A_60516	NW_004516139.1	scaffold750	60516	TT	AA	AA	INTERGENIC			
SNP_83018_A_66794	NW_004516139.1	scaffold750	66794	TT	AA	AA	INTERGENIC			
SNP_83019_A_83457	NW_004516139.1	scaffold750	83457	CC	AA	AA	INTERGENIC			
SNP_83021_A_95184	NW_004516139.1	scaffold750	95184	CC	TT	TT	INTERGENIC			
SNP_83022_A_106550	NW_004516139.1	scaffold750	106550	AA	CC	CC	INTERGENIC			
SNP_83024_A_147791	NW_004516139.1	scaffold750	147791	AA	CC	CC	INTERGENIC			
SNP_83025_A_158900	NW_004516139.1	scaffold750	158900	CC	TT	TT	INTERGENIC			
SNP_83026_A_158903	NW_004516139.1	scaffold750	158903	GG	AA	AA	INTERGENIC			
SNP_83027_A_158932	NW_004516139.1	scaffold750	158932	TT	GG	GG	INTERGENIC			
SNP_83028_A_185253	NW_004516139.1	scaffold750	185253	AA	CC	CC	INTERGENIC			
SNP_83029_A_185265	NW_004516139.1	scaffold750	185265	AA	TT	TT	INTERGENIC			
SNP_83030_A_185298	NW_004516139.1	scaffold750	185298	TT	CC	CC	INTERGENIC			
SNP_83031_A_190499	NW_004516139.1	scaffold750	190499	TT	CC	CC	INTERGENIC			
SNP_83032_A_190518	NW_004516139.1	scaffold750	190518	AA	TT	TT	INTERGENIC			
SNP_83033_A_190521	NW_004516139.1	scaffold750	190521	AA	GG	GG	INTERGENIC			
SNP_83034_A_190522	NW_004516139.1	scaffold750	190522	TT	GG	GG	INTERGENIC			
SNP_83035_A_221724	NW_004516139.1	scaffold750	221724	AA	GG	GG	INTERGENIC			
SNP_83036_A_227819	NW_004516139.1	scaffold750	227819	GG	AA	AA	INTERGENIC			
SNP_83037_A_228517	NW_004516139.1	scaffold750	228517	GG	AA	AA	INTERGENIC			
SNP_83038_A_232707	NW_004516139.1	scaffold750	232707	TT	AA	AA	INTERGENIC			
SNP_83039_A_232835	NW_004516139.1	scaffold750	232835	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83040_A_243052	NW_004516139.1	scaffold750	243052	GG	AA	AA	INTERGENIC			
SNP_83041_A_244761	NW_004516139.1	scaffold750	244761	AA	TT	TT	INTERGENIC			
SNP_83042_A_245636	NW_004516139.1	scaffold750	245636	GG	AA	AA	INTERGENIC			
SNP_83044_A_248429	NW_004516139.1	scaffold750	248429	GG	TT	TT	INTERGENIC			
SNP_83045_A_254570	NW_004516139.1	scaffold750	254570	GG	AA	AA	INTERGENIC			
SNP_83046_A_257102	NW_004516139.1	scaffold750	257102	AA	GG	GG	INTERGENIC			
SNP_83047_A_263973	NW_004516139.1	scaffold750	263973	TT	AA	AA	INTERGENIC			
SNP_83048_A_264215	NW_004516139.1	scaffold750	264215	CC	TT	TT	INTERGENIC			
SNP_83049_A_264235	NW_004516139.1	scaffold750	264235	TT	CC	CC	INTERGENIC			
SNP_83050_A_264283	NW_004516139.1	scaffold750	264283	GG	CC	CC	INTERGENIC			
SNP_83051_A_266247	NW_004516139.1	scaffold750	266247	GG	AA	AA	INTERGENIC			
SNP_83052_A_266268	NW_004516139.1	scaffold750	266268	TT	CC	CC	INTERGENIC			
SNP_83053_A_266314	NW_004516139.1	scaffold750	266314	GG	AA	AA	INTERGENIC			
SNP_83054_A_267480	NW_004516139.1	scaffold750	267480	AA	TT	TT	INTERGENIC			
SNP_83055_A_268861	NW_004516139.1	scaffold750	268861	TT	CC	CC	INTERGENIC			
SNP_83056_A_272007	NW_004516139.1	scaffold750	272007	CC	TT	TT	INTERGENIC			
SNP_83057_A_272048	NW_004516139.1	scaffold750	272048	TT	AA	AA	INTERGENIC			
SNP_83058_A_278789	NW_004516139.1	scaffold750	278789	TT	CC	CC	INTERGENIC			
SNP_83059_A_279344	NW_004516139.1	scaffold750	279344	TT	AA	AA	INTERGENIC			
SNP_83060_A_279352	NW_004516139.1	scaffold750	279352	TT	CC	CC	INTERGENIC			
SNP_83061_A_279665	NW_004516139.1	scaffold750	279665	CC	TT	TT	INTERGENIC			
SNP_83062_A_279670	NW_004516139.1	scaffold750	279670	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83063_A_279683	NW_004516139.1	scaffold750	279683	CC	TT	TT	INTERGENIC			
SNP_83064_A_301888	NW_004516139.1	scaffold750	301888	CC	AA	AA	INTERGENIC			
SNP_83065_A_313683	NW_004516139.1	scaffold750	313683	AA	CC	CC	INTERGENIC			
SNP_83067_A_337716	NW_004516139.1	scaffold750	337716	GG	CC	CC	INTERGENIC			
SNP_83068_A_347970	NW_004516139.1	scaffold750	347970	CC	TT	TT	INTERGENIC			
SNP_83069_A_348026	NW_004516139.1	scaffold750	348026	AA	GG	GG	INTERGENIC			
SNP_83070_A_348237	NW_004516139.1	scaffold750	348237	TT	AA	AA	INTERGENIC			
SNP_83071_A_348287	NW_004516139.1	scaffold750	348287	CC	TT	TT	INTERGENIC			
SNP_83072_A_348345	NW_004516139.1	scaffold750	348345	AA	GG	GG	INTERGENIC			
SNP_83073_A_360252	NW_004516139.1	scaffold750	360252	CC	TT	TT	INTERGENIC			
SNP_83075_A_360503	NW_004516139.1	scaffold750	360503	TT	CC	CC	INTERGENIC			
SNP_83076_A_360521	NW_004516139.1	scaffold750	360521	AA	TT	TT	INTERGENIC			
SNP_83077_A_360544	NW_004516139.1	scaffold750	360544	AA	TT	TT	INTERGENIC			
SNP_83078_A_360560	NW_004516139.1	scaffold750	360560	AA	CC	CC	INTERGENIC			
SNP_83079_A_362273	NW_004516139.1	scaffold750	362273	CC	GG	GG	INTERGENIC			
SNP_83080_A_362293	NW_004516139.1	scaffold750	362293	TT	GG	GG	INTERGENIC			
SNP_83081_A_362295	NW_004516139.1	scaffold750	362295	TT	AA	AA	INTERGENIC			
SNP_83082_A_362321	NW_004516139.1	scaffold750	362321	TT	AA	AA	INTERGENIC			
SNP_83083_A_362349	NW_004516139.1	scaffold750	362349	CC	TT	TT	INTERGENIC			
SNP_83085_A_17280	NW_004516140.1	scaffold752	17280	CC	TT	TT	INTERGENIC			
SNP_83086_A_38793	NW_004516140.1	scaffold752	38793	TT	CC	CC	INTERGENIC			
SNP_83088_A_50188	NW_004516140.1	scaffold752	50188	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83089_A_50482	NW_004516140.1	scaffold752	50482	AA	GG	GG	INTERGENIC		
SNP_83090_A_50503	NW_004516140.1	scaffold752	50503	TT	CC	CC	INTERGENIC		
SNP_83091_A_50611	NW_004516140.1	scaffold752	50611	AA	CC	CC	INTERGENIC		
SNP_83092_A_55342	NW_004516140.1	scaffold752	55342	CC	TT	TT	INTERGENIC		
SNP_83093_A_99166	NW_004516140.1	scaffold752	99166	GG	AA	AA	INTERGENIC		
SNP_83094_A_99199	NW_004516140.1	scaffold752	99199	AA	GG	GG	INTERGENIC		
SNP_83095_A_113213	NW_004516140.1	scaffold752	113213	AA	CC	CC	INTERGENIC		
SNP_83097_A_137834	NW_004516140.1	scaffold752	137834	TT	CC	CC	INTERGENIC		
SNP_83098_A_137842	NW_004516140.1	scaffold752	137842	AA	GG	GG	INTERGENIC		
SNP_83099_A_137905	NW_004516140.1	scaffold752	137905	AA	CC	CC	INTERGENIC		
SNP_83100_A_137990	NW_004516140.1	scaffold752	137990	AA	GG	GG	INTERGENIC		
SNP_83101_A_138021	NW_004516140.1	scaffold752	138021	AA	GG	GG	INTERGENIC		
SNP_83102_A_138208	NW_004516140.1	scaffold752	138208	TT	CC	CC	INTERGENIC		
SNP_83103_A_149709	NW_004516140.1	scaffold752	149709	TT	AA	AA	DRR	101492745	uncharacterized LOC101492745
SNP_83104_A_150442	NW_004516140.1	scaffold752	150442	AA	GG	GG	DRR	101492745	uncharacterized LOC101492745
SNP_83105_A_150640	NW_004516140.1	scaffold752	150640	AA	GG	GG	DRR	101492745	uncharacterized LOC101492745
SNP_83106_A_152249	NW_004516140.1	scaffold752	152249	TT	AA	AA	INTRON	id205067	Unknown function
SNP_83107_A_152518	NW_004516140.1	scaffold752	152518	AA	CC	CC	INTRON	id205067	Unknown function
SNP_83108_A_152615	NW_004516140.1	scaffold752	152615	TT	CC	CC	INTRON	id205067	Unknown function
SNP_83109_A_190918	NW_004516140.1	scaffold752	190918	CC	TT	TT	INTERGENIC		
SNP_83110_A_209668	NW_004516140.1	scaffold752	209668	AA	TT	TT	INTERGENIC		
SNP_83111_A_209954	NW_004516140.1	scaffold752	209954	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83112_A_209976	NW_004516140.1	scaffold752	209976	AA	GG	GG	INTERGENIC			
SNP_83113_A_209988	NW_004516140.1	scaffold752	209988	TT	CC	CC	INTERGENIC			
SNP_83114_A_212078	NW_004516140.1	scaffold752	212078	AA	GG	GG	INTERGENIC			
SNP_83116_A_228245	NW_004516140.1	scaffold752	228245	GG	TT	TT	INTERGENIC			
SNP_83117_A_231148	NW_004516140.1	scaffold752	231148	AA	CC	CC	INTERGENIC			
SNP_83118_A_231149	NW_004516140.1	scaffold752	231149	CC	TT	TT	INTERGENIC			
SNP_83119_A_231210	NW_004516140.1	scaffold752	231210	GG	CC	CC	INTERGENIC			
SNP_83120_A_231220	NW_004516140.1	scaffold752	231220	AA	GG	GG	INTERGENIC			
SNP_83121_A_231238	NW_004516140.1	scaffold752	231238	GG	AA	AA	INTERGENIC			
SNP_83122_A_231259	NW_004516140.1	scaffold752	231259	AA	GG	GG	INTERGENIC			
SNP_83123_A_231264	NW_004516140.1	scaffold752	231264	AA	GG	GG	INTERGENIC			
SNP_83124_A_231289	NW_004516140.1	scaffold752	231289	TT	CC	CC	INTERGENIC			
SNP_83125_A_231298	NW_004516140.1	scaffold752	231298	CC	TT	TT	INTERGENIC			
SNP_83126_A_231458	NW_004516140.1	scaffold752	231458	TT	CC	CC	INTERGENIC			
SNP_83127_A_231467	NW_004516140.1	scaffold752	231467	GG	AA	AA	INTERGENIC			
SNP_83128_A_231477	NW_004516140.1	scaffold752	231477	CC	TT	TT	INTERGENIC			
SNP_83129_A_231484	NW_004516140.1	scaffold752	231484	AA	CC	CC	INTERGENIC			
SNP_83130_A_231499	NW_004516140.1	scaffold752	231499	TT	GG	GG	INTERGENIC			
SNP_83131_A_231500	NW_004516140.1	scaffold752	231500	AA	GG	GG	INTERGENIC			
SNP_83132_A_231509	NW_004516140.1	scaffold752	231509	GG	AA	AA	INTERGENIC			
SNP_83133_A_231542	NW_004516140.1	scaffold752	231542	GG	AA	AA	INTERGENIC			
SNP_83134_A_231554	NW_004516140.1	scaffold752	231554	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83135_A_232447	NW_004516140.1	scaffold752	232447	GG	TT	TT	INTERGENIC		
SNP_83136_A_232448	NW_004516140.1	scaffold752	232448	GG	TT	TT	INTERGENIC		
SNP_83138_A_269644	NW_004516140.1	scaffold752	269644	AA	CC	CC	INTERGENIC		
SNP_83139_A_269712	NW_004516140.1	scaffold752	269712	AA	GG	GG	INTERGENIC		
SNP_83140_A_289250	NW_004516140.1	scaffold752	289250	TT	AA	AA	INTERGENIC		
SNP_83141_A_293949	NW_004516140.1	scaffold752	293949	GG	AA	AA	URR	101495102	uncharacterized LOC101495102
SNP_83142_A_326476	NW_004516140.1	scaffold752	326476	AA	GG	GG	INTERGENIC		
SNP_83143_A_385760	NW_004516140.1	scaffold752	385760	CC	TT	TT	INTERGENIC		
SNP_83144_A_412715	NW_004516140.1	scaffold752	412715	AA	CC	CC	INTERGENIC		
SNP_83145_A_451242	NW_004516140.1	scaffold752	451242	TT	CC	CC	INTERGENIC		
SNP_83146_A_456958	NW_004516140.1	scaffold752	456958	GG	CC	CC	INTERGENIC		
SNP_83147_A_486149	NW_004516140.1	scaffold752	486149	CC	AA	AA	INTRON	101493619	DNA repair protein UVH3
SNP_83148_A_486158	NW_004516140.1	scaffold752	486158	CC	TT	TT	INTRON	101493619	DNA repair protein UVH3
SNP_83149_A_505082	NW_004516140.1	scaffold752	505082	GG	CC	CC	INTERGENIC		
SNP_83150_A_505096	NW_004516140.1	scaffold752	505096	CC	TT	TT	INTERGENIC		
SNP_83152_A_505290	NW_004516140.1	scaffold752	505290	AA	GG	GG	INTERGENIC		
SNP_83153_A_505333	NW_004516140.1	scaffold752	505333	AA	TT	TT	INTERGENIC		
SNP_83154_A_73645	NW_004516141.1	scaffold753	73645	TT	CC	CC	INTERGENIC		
SNP_83155_A_84387	NW_004516141.1	scaffold753	84387	AA	CC	CC	INTERGENIC		
SNP_83156_A_84403	NW_004516141.1	scaffold753	84403	AA	GG	GG	INTERGENIC		
SNP_83157_A_84406	NW_004516141.1	scaffold753	84406	TT	CC	CC	INTERGENIC		
SNP_83158_A_123070	NW_004516141.1	scaffold753	123070	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83159_A_123085	NW_004516141.1	scaffold753	123085	GG	AA	AA	INTERGENIC		
SNP_83160_A_123100	NW_004516141.1	scaffold753	123100	TT	CC	CC	INTERGENIC		
SNP_83161_A_124240	NW_004516141.1	scaffold753	124240	GG	AA	AA	INTERGENIC		
SNP_83162_A_150068	NW_004516141.1	scaffold753	150068	AA	TT	TT	INTRON	101498377	(Z)-3-hexen-1-ol acetyltransferase-like
SNP_83163_A_150759	NW_004516141.1	scaffold753	150759	AA	GG	GG	SYNONYMOUS_CODING	101498377	(Z)-3-hexen-1-ol acetyltransferase-like
SNP_83164_A_151133	NW_004516141.1	scaffold753	151133	CC	TT	TT	URR	101498377	(Z)-3-hexen-1-ol acetyltransferase-like
SNP_83166_A_223568	NW_004516141.1	scaffold753	223568	AA	GG	GG	INTERGENIC		
SNP_83167_A_228758	NW_004516141.1	scaffold753	228758	TT	CC	CC	INTERGENIC		
SNP_83168_A_228834	NW_004516141.1	scaffold753	228834	AA	GG	GG	INTERGENIC		
SNP_83169_A_228884	NW_004516141.1	scaffold753	228884	TT	CC	CC	INTERGENIC		
SNP_83170_A_327302	NW_004516141.1	scaffold753	327302	AA	GG	GG	INTERGENIC		
SNP_83172_A_15354	NW_004516142.1	scaffold754	15354	AA	GG	GG	INTERGENIC		
SNP_83173_A_25243	NW_004516142.1	scaffold754	25243	CC	AA	AA	INTERGENIC		
SNP_83174_A_15319	NW_004516144.1	scaffold757	15319	TT	CC	CC	INTERGENIC		
SNP_83175_A_29801	NW_004516144.1	scaffold757	29801	TT	CC	CC	INTERGENIC		
SNP_83176_A_39270	NW_004516144.1	scaffold757	39270	TT	AA	AA	INTERGENIC		
SNP_83177_A_72617	NW_004516144.1	scaffold757	72617	GG	AA	AA	INTERGENIC		
SNP_83178_A_72799	NW_004516144.1	scaffold757	72799	TT	GG	GG	INTERGENIC		
SNP_83179_A_72922	NW_004516144.1	scaffold757	72922	TT	CC	CC	INTERGENIC		
SNP_83180_A_72928	NW_004516144.1	scaffold757	72928	GG	AA	AA	INTERGENIC		
SNP_83181_A_72937	NW_004516144.1	scaffold757	72937	GG	AA	AA	INTERGENIC		
SNP_83182_A_73089	NW_004516144.1	scaffold757	73089	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83183_A_73122	NW_004516144.1	scaffold757	73122	AA	GG	GG	INTERGENIC			
SNP_83184_A_73123	NW_004516144.1	scaffold757	73123	AA	GG	GG	INTERGENIC			
SNP_83185_A_2130	NW_004516145.1	scaffold758	2130	TT	CC	CC	INTERGENIC			
SNP_83186_A_11072	NW_004516145.1	scaffold758	11072	GG	TT	TT	INTERGENIC			
SNP_83187_A_11096	NW_004516145.1	scaffold758	11096	GG	TT	TT	INTERGENIC			
SNP_83188_A_12604	NW_004516145.1	scaffold758	12604	AA	GG	GG	INTERGENIC			
SNP_83189_A_12973	NW_004516145.1	scaffold758	12973	CC	TT	TT	INTERGENIC			
SNP_83190_A_12975	NW_004516145.1	scaffold758	12975	GG	AA	AA	INTERGENIC			
SNP_83192_A_16503	NW_004516145.1	scaffold758	16503	AA	GG	GG	INTERGENIC			
SNP_83193_A_19559	NW_004516145.1	scaffold758	19559	TT	GG	GG	INTERGENIC			
SNP_83194_A_22095	NW_004516145.1	scaffold758	22095	TT	AA	AA	INTERGENIC			
SNP_83195_A_22101	NW_004516145.1	scaffold758	22101	GG	AA	AA	INTERGENIC			
SNP_83196_A_22121	NW_004516145.1	scaffold758	22121	AA	TT	TT	INTERGENIC			
SNP_83197_A_22122	NW_004516145.1	scaffold758	22122	CC	AA	AA	INTERGENIC			
SNP_83198_A_22138	NW_004516145.1	scaffold758	22138	GG	AA	AA	INTERGENIC			
SNP_83199_A_22272	NW_004516145.1	scaffold758	22272	TT	CC	CC	INTERGENIC			
SNP_83200_A_22273	NW_004516145.1	scaffold758	22273	AA	GG	GG	INTERGENIC			
SNP_83201_A_22297	NW_004516145.1	scaffold758	22297	CC	AA	AA	INTERGENIC			
SNP_83202_A_22320	NW_004516145.1	scaffold758	22320	CC	TT	TT	INTERGENIC			
SNP_83203_A_22331	NW_004516145.1	scaffold758	22331	AA	GG	GG	INTERGENIC			
SNP_83204_A_22356	NW_004516145.1	scaffold758	22356	TT	CC	CC	INTERGENIC			
SNP_83205_A_22392	NW_004516145.1	scaffold758	22392	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83206_A_22606	NW_004516145.1	scaffold758	22606	TT	CC	CC	INTERGENIC		
SNP_83207_A_22623	NW_004516145.1	scaffold758	22623	TT	CC	CC	INTERGENIC		
SNP_83208_A_22627	NW_004516145.1	scaffold758	22627	AA	CC	CC	INTERGENIC		
SNP_83209_A_22631	NW_004516145.1	scaffold758	22631	AA	GG	GG	INTERGENIC		
SNP_83210_A_22637	NW_004516145.1	scaffold758	22637	GG	TT	TT	INTERGENIC		
SNP_83212_A_60470	NW_004516145.1	scaffold758	60470	AA	GG	GG	SYNONYMOUS_CODING	101499245	Unknown function
SNP_83213_A_60523	NW_004516145.1	scaffold758	60523	CC	TT	TT	NON_SYNONYMOUS_CODING	101499245	Unknown function
SNP_83214_A_60537	NW_004516145.1	scaffold758	60537	GG	AA	AA	NON_SYNONYMOUS_CODING	101499245	Unknown function
SNP_83215_A_80878	NW_004516145.1	scaffold758	80878	GG	AA	AA	INTERGENIC		
SNP_83216_A_116246	NW_004516145.1	scaffold758	116246	AA	TT	TT	INTERGENIC		
SNP_83217_A_116265	NW_004516145.1	scaffold758	116265	GG	AA	AA	INTERGENIC		
SNP_83219_A_116324	NW_004516145.1	scaffold758	116324	TT	CC	CC	INTERGENIC		
SNP_83220_A_116460	NW_004516145.1	scaffold758	116460	GG	AA	AA	INTERGENIC		
SNP_83221_A_116491	NW_004516145.1	scaffold758	116491	AA	GG	GG	INTERGENIC		
SNP_83222_A_116805	NW_004516145.1	scaffold758	116805	AA	TT	TT	INTERGENIC		
SNP_83223_A_117783	NW_004516145.1	scaffold758	117783	AA	TT	TT	INTERGENIC		
SNP_83224_A_119733	NW_004516145.1	scaffold758	119733	CC	AA	AA	INTERGENIC		
SNP_83225_A_120004	NW_004516145.1	scaffold758	120004	AA	GG	GG	INTERGENIC		
SNP_83226_A_120047	NW_004516145.1	scaffold758	120047	TT	CC	CC	INTERGENIC		
SNP_83227_A_120057	NW_004516145.1	scaffold758	120057	AA	GG	GG	INTERGENIC		
SNP_83228_A_3313	NW_004516146.1	scaffold759	3313	AA	TT	TT	INTERGENIC		
SNP_83229_A_3682	NW_004516146.1	scaffold759	3682	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83230_A_3683	NW_004516146.1	scaffold759	3683	CC	GG	GG	INTERGENIC			
SNP_83231_A_3728	NW_004516146.1	scaffold759	3728	GG	AA	AA	INTERGENIC			
SNP_83232_A_6089	NW_004516146.1	scaffold759	6089	TT	CC	CC	INTERGENIC			
SNP_83233_A_6113	NW_004516146.1	scaffold759	6113	TT	GG	GG	INTERGENIC			
SNP_83234_A_6120	NW_004516146.1	scaffold759	6120	CC	TT	TT	INTERGENIC			
SNP_83235_A_6122	NW_004516146.1	scaffold759	6122	CC	TT	TT	INTERGENIC			
SNP_83236_A_6128	NW_004516146.1	scaffold759	6128	TT	CC	CC	INTERGENIC			
SNP_83237_A_6164	NW_004516146.1	scaffold759	6164	TT	CC	CC	INTERGENIC			
SNP_83238_A_6193	NW_004516146.1	scaffold759	6193	AA	CC	CC	INTERGENIC			
SNP_83239_A_6444	NW_004516146.1	scaffold759	6444	GG	AA	AA	INTERGENIC			
SNP_83240_A_6450	NW_004516146.1	scaffold759	6450	AA	GG	GG	INTERGENIC			
SNP_83241_A_6458	NW_004516146.1	scaffold759	6458	GG	TT	TT	INTERGENIC			
SNP_83242_A_6921	NW_004516146.1	scaffold759	6921	TT	CC	CC	INTERGENIC			
SNP_83243_A_6943	NW_004516146.1	scaffold759	6943	TT	CC	CC	INTERGENIC			
SNP_83244_A_6991	NW_004516146.1	scaffold759	6991	AA	GG	GG	INTERGENIC			
SNP_83245_A_6998	NW_004516146.1	scaffold759	6998	GG	AA	AA	INTERGENIC			
SNP_83246_A_7066	NW_004516146.1	scaffold759	7066	AA	CC	CC	INTERGENIC			
SNP_83247_A_7071	NW_004516146.1	scaffold759	7071	GG	AA	AA	INTERGENIC			
SNP_83248_A_7099	NW_004516146.1	scaffold759	7099	TT	CC	CC	INTERGENIC			
SNP_83249_A_7261	NW_004516146.1	scaffold759	7261	GG	AA	AA	INTERGENIC			
SNP_83250_A_7297	NW_004516146.1	scaffold759	7297	TT	CC	CC	INTERGENIC			
SNP_83251_A_7336	NW_004516146.1	scaffold759	7336	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83252_A_7369	NW_004516146.1	scaffold759	7369	GG	AA	AA	INTERGENIC			
SNP_83254_A_77203	NW_004516146.1	scaffold759	77203	AA	TT	TT	INTERGENIC			
SNP_83255_A_77482	NW_004516146.1	scaffold759	77482	GG	AA	AA	INTERGENIC			
SNP_83256_A_77497	NW_004516146.1	scaffold759	77497	GG	AA	AA	INTERGENIC			
SNP_83257_A_128171	NW_004516146.1	scaffold759	128171	AA	TT	TT	INTERGENIC			
SNP_83258_A_138567	NW_004516146.1	scaffold759	138567	TT	GG	GG	INTERGENIC			
SNP_83259_A_138600	NW_004516146.1	scaffold759	138600	AA	GG	GG	INTERGENIC			
SNP_83260_A_144978	NW_004516146.1	scaffold759	144978	CC	TT	TT	INTERGENIC			
SNP_83261_A_145030	NW_004516146.1	scaffold759	145030	GG	TT	TT	INTERGENIC			
SNP_83262_A_145422	NW_004516146.1	scaffold759	145422	TT	CC	CC	INTERGENIC			
SNP_83263_A_160009	NW_004516146.1	scaffold759	160009	GG	TT	TT	INTERGENIC			
SNP_83264_A_160044	NW_004516146.1	scaffold759	160044	AA	GG	GG	INTERGENIC			
SNP_83265_A_160072	NW_004516146.1	scaffold759	160072	GG	TT	TT	INTERGENIC			
SNP_83266_A_160349	NW_004516146.1	scaffold759	160349	GG	CC	CC	INTERGENIC			
SNP_83267_A_160398	NW_004516146.1	scaffold759	160398	TT	GG	GG	INTERGENIC			
SNP_83268_A_160401	NW_004516146.1	scaffold759	160401	TT	CC	CC	INTERGENIC			
SNP_83269_A_8630	NW_004516147.1	scaffold760	8630	GG	AA	AA	INTERGENIC			
SNP_83270_A_8683	NW_004516147.1	scaffold760	8683	CC	GG	GG	INTERGENIC			
SNP_83271_A_8968	NW_004516147.1	scaffold760	8968	GG	CC	CC	INTERGENIC			
SNP_83272_A_8992	NW_004516147.1	scaffold760	8992	GG	AA	AA	INTERGENIC			
SNP_83273_A_13033	NW_004516147.1	scaffold760	13033	GG	AA	AA	INTERGENIC			
SNP_83274_A_13074	NW_004516147.1	scaffold760	13074	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83275_A_13091	NW_004516147.1	scaffold760	13091	GG	AA	AA	INTERGENIC			
SNP_83276_A_13235	NW_004516147.1	scaffold760	13235	CC	TT	TT	INTERGENIC			
SNP_83277_A_13342	NW_004516147.1	scaffold760	13342	CC	TT	TT	INTERGENIC			
SNP_83278_A_13378	NW_004516147.1	scaffold760	13378	GG	TT	TT	INTERGENIC			
SNP_83279_A_13402	NW_004516147.1	scaffold760	13402	CC	GG	GG	INTERGENIC			
SNP_83280_A_15252	NW_004516147.1	scaffold760	15252	AA	TT	TT	INTERGENIC			
SNP_83281_A_16047	NW_004516147.1	scaffold760	16047	CC	TT	TT	INTERGENIC			
SNP_83282_A_16056	NW_004516147.1	scaffold760	16056	GG	TT	TT	INTERGENIC			
SNP_83283_A_16076	NW_004516147.1	scaffold760	16076	CC	GG	GG	INTERGENIC			
SNP_83284_A_16151	NW_004516147.1	scaffold760	16151	CC	TT	TT	INTERGENIC			
SNP_83285_A_16193	NW_004516147.1	scaffold760	16193	CC	TT	TT	INTERGENIC			
SNP_83286_A_3199	NW_004516151.1	scaffold766	3199	GG	AA	AA	INTERGENIC			
SNP_83287_A_4924	NW_004516151.1	scaffold766	4924	TT	AA	AA	INTERGENIC			
SNP_83288_A_4925	NW_004516151.1	scaffold766	4925	TT	CC	CC	INTERGENIC			
SNP_83289_A_4994	NW_004516151.1	scaffold766	4994	TT	CC	CC	INTERGENIC			
SNP_83290_A_5010	NW_004516151.1	scaffold766	5010	CC	AA	AA	INTERGENIC			
SNP_83291_A_5473	NW_004516151.1	scaffold766	5473	AA	TT	TT	INTERGENIC			
SNP_83292_A_27448	NW_004516151.1	scaffold766	27448	TT	CC	CC	INTERGENIC			
SNP_83293_A_28901	NW_004516151.1	scaffold766	28901	GG	TT	TT	INTERGENIC			
SNP_83295_A_144781	NW_004516151.1	scaffold766	144781	GG	AA	AA	URR	101500833	uncharacterized LOC101500833	
SNP_83298_A_188772	NW_004516151.1	scaffold766	188772	TT	AA	AA	INTERGENIC			
SNP_83299_A_188795	NW_004516151.1	scaffold766	188795	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83300_A_188800	NW_004516151.1	scaffold766	188800	GG	AA	AA	INTERGENIC		
SNP_83302_A_195941	NW_004516151.1	scaffold766	195941	TT	CC	CC	URR	101499564	uncharacterized LOC101499564
SNP_83303_A_213719	NW_004516151.1	scaffold766	213719	CC	TT	TT	INTERGENIC		
SNP_83304_A_214790	NW_004516151.1	scaffold766	214790	AA	CC	CC	INTERGENIC		
SNP_83305_A_214932	NW_004516151.1	scaffold766	214932	GG	AA	AA	INTERGENIC		
SNP_83306_A_214947	NW_004516151.1	scaffold766	214947	GG	TT	TT	INTERGENIC		
SNP_83307_A_214957	NW_004516151.1	scaffold766	214957	TT	CC	CC	INTERGENIC		
SNP_83308_A_243046	NW_004516151.1	scaffold766	243046	TT	GG	GG	INTERGENIC		
SNP_83309_A_243503	NW_004516151.1	scaffold766	243503	AA	TT	TT	INTERGENIC		
SNP_83310_A_243954	NW_004516151.1	scaffold766	243954	GG	AA	AA	INTERGENIC		
SNP_83311_A_264754	NW_004516151.1	scaffold766	264754	GG	AA	AA	INTERGENIC		
SNP_83312_A_273061	NW_004516151.1	scaffold766	273061	TT	CC	CC	INTERGENIC		
SNP_83313_A_273169	NW_004516151.1	scaffold766	273169	CC	TT	TT	INTERGENIC		
SNP_83314_A_273232	NW_004516151.1	scaffold766	273232	GG	AA	AA	INTERGENIC		
SNP_83315_A_273354	NW_004516151.1	scaffold766	273354	AA	TT	TT	INTERGENIC		
SNP_83316_A_36	NW_004516153.1	scaffold768	36	CC	AA	AA	INTERGENIC		
SNP_83317_A_57	NW_004516153.1	scaffold768	57	GG	TT	TT	INTERGENIC		
SNP_83318_A_64	NW_004516153.1	scaffold768	64	TT	AA	AA	INTERGENIC		
SNP_83319_A_76	NW_004516153.1	scaffold768	76	GG	AA	AA	INTERGENIC		
SNP_83320_A_208	NW_004516153.1	scaffold768	208	TT	AA	AA	INTERGENIC		
SNP_83321_A_251	NW_004516153.1	scaffold768	251	AA	GG	GG	INTERGENIC		
SNP_83322_A_256	NW_004516153.1	scaffold768	256	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83323_A_425	NW_004516153.1	scaffold768	425	GG	AA	AA	INTERGENIC			
SNP_83324_A_478	NW_004516153.1	scaffold768	478	TT	CC	CC	INTERGENIC			
SNP_83325_A_525	NW_004516153.1	scaffold768	525	CC	GG	GG	INTERGENIC			
SNP_83327_A_618	NW_004516153.1	scaffold768	618	CC	AA	AA	INTERGENIC			
SNP_83328_A_765	NW_004516153.1	scaffold768	765	GG	AA	AA	INTERGENIC			
SNP_83329_A_894	NW_004516153.1	scaffold768	894	AA	GG	GG	INTERGENIC			
SNP_83330_A_1007	NW_004516153.1	scaffold768	1007	TT	AA	AA	INTERGENIC			
SNP_83331_A_1018	NW_004516153.1	scaffold768	1018	AA	TT	TT	INTERGENIC			
SNP_83333_A_64	NW_004516154.1	scaffold769	64	GG	TT	TT	INTERGENIC			
SNP_83334_A_81	NW_004516154.1	scaffold769	81	AA	TT	TT	INTERGENIC			
SNP_83336_A_177	NW_004516154.1	scaffold769	177	GG	TT	TT	INTERGENIC			
SNP_83337_A_209	NW_004516154.1	scaffold769	209	AA	GG	GG	INTERGENIC			
SNP_83338_A_359	NW_004516154.1	scaffold769	359	AA	TT	TT	INTERGENIC			
SNP_83339_A_429	NW_004516154.1	scaffold769	429	TT	AA	AA	INTERGENIC			
SNP_83340_A_542	NW_004516154.1	scaffold769	542	TT	GG	GG	INTERGENIC			
SNP_83341_A_930	NW_004516154.1	scaffold769	930	TT	GG	GG	INTERGENIC			
SNP_83343_A_1476	NW_004516154.1	scaffold769	1476	GG	AA	AA	INTERGENIC			
SNP_83344_A_1618	NW_004516154.1	scaffold769	1618	TT	AA	AA	INTERGENIC			
SNP_83345_A_1681	NW_004516154.1	scaffold769	1681	AA	TT	TT	INTERGENIC			
SNP_83346_A_1808	NW_004516154.1	scaffold769	1808	TT	GG	GG	INTERGENIC			
SNP_83347_A_1878	NW_004516154.1	scaffold769	1878	GG	AA	AA	INTERGENIC			
SNP_83349_A_2824	NW_004516154.1	scaffold769	2824	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83350_A_2918	NW_004516154.1	scaffold769	2918	AA	GG	GG	INTERGENIC		
SNP_83351_A_2921	NW_004516154.1	scaffold769	2921	GG	CC	CC	INTERGENIC		
SNP_83352_A_3050	NW_004516154.1	scaffold769	3050	GG	TT	TT	INTERGENIC		
SNP_83355_A_3523	NW_004516154.1	scaffold769	3523	CC	AA	AA	INTERGENIC		
SNP_83358_A_7962	NW_004516154.1	scaffold769	7962	AA	TT	TT	INTERGENIC		
SNP_83359_A_7970	NW_004516154.1	scaffold769	7970	AA	GG	GG	INTERGENIC		
SNP_83361_A_27304	NW_004516154.1	scaffold769	27304	AA	GG	GG	INTERGENIC		
SNP_83362_A_27360	NW_004516154.1	scaffold769	27360	GG	TT	TT	INTERGENIC		
SNP_83364_A_28914	NW_004516154.1	scaffold769	28914	AA	GG	GG	INTERGENIC		
SNP_83365_A_28958	NW_004516154.1	scaffold769	28958	CC	TT	TT	INTERGENIC		
SNP_83366_A_29244	NW_004516154.1	scaffold769	29244	AA	CC	CC	INTERGENIC		
SNP_83368_A_29473	NW_004516154.1	scaffold769	29473	AA	GG	GG	INTERGENIC		
SNP_83369_A_29828	NW_004516154.1	scaffold769	29828	AA	GG	GG	INTERGENIC		
SNP_83370_A_82803	NW_004516154.1	scaffold769	82803	AA	CC	CC	NON_SYNONYMOUS_CODING	101504044	uncharacterized LOC101504044
SNP_83371_A_105527	NW_004516154.1	scaffold769	105527	CC	AA	AA	INTERGENIC		
SNP_83372_A_108568	NW_004516154.1	scaffold769	108568	GG	TT	TT	INTERGENIC		
SNP_83373_A_109743	NW_004516154.1	scaffold769	109743	TT	GG	GG	INTERGENIC		
SNP_83374_A_116612	NW_004516154.1	scaffold769	116612	GG	AA	AA	INTERGENIC		
SNP_83375_A_116641	NW_004516154.1	scaffold769	116641	AA	CC	CC	INTERGENIC		
SNP_83376_A_116677	NW_004516154.1	scaffold769	116677	AA	TT	TT	INTERGENIC		
SNP_83377_A_116715	NW_004516154.1	scaffold769	116715	TT	AA	AA	INTERGENIC		
SNP_83378_A_116778	NW_004516154.1	scaffold769	116778	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83379_A_117141	NW_004516154.1	scaffold769	117141	TT	CC	CC	INTERGENIC			
SNP_83380_A_314	NW_004516155.1	scaffold771	314	AA	GG	GG	INTERGENIC			
SNP_83381_A_405	NW_004516155.1	scaffold771	405	TT	CC	CC	INTERGENIC			
SNP_83382_A_36412	NW_004516155.1	scaffold771	36412	TT	CC	CC	INTERGENIC			
SNP_83383_A_54766	NW_004516155.1	scaffold771	54766	AA	GG	GG	INTERGENIC			
SNP_83384_A_58320	NW_004516155.1	scaffold771	58320	TT	CC	CC	INTERGENIC			
SNP_83385_A_58335	NW_004516155.1	scaffold771	58335	GG	AA	AA	INTERGENIC			
SNP_83386_A_58336	NW_004516155.1	scaffold771	58336	GG	CC	CC	INTERGENIC			
SNP_83387_A_58344	NW_004516155.1	scaffold771	58344	AA	TT	TT	INTERGENIC			
SNP_83388_A_66411	NW_004516155.1	scaffold771	66411	TT	CC	CC	INTERGENIC			
SNP_83389_A_69254	NW_004516155.1	scaffold771	69254	AA	GG	GG	INTERGENIC			
SNP_83390_A_7562	NW_004516156.1	scaffold772	7562	CC	TT	TT	INTERGENIC			
SNP_83391_A_7582	NW_004516156.1	scaffold772	7582	CC	TT	TT	INTERGENIC			
SNP_83392_A_7821	NW_004516156.1	scaffold772	7821	AA	TT	TT	INTERGENIC			
SNP_83393_A_8420	NW_004516156.1	scaffold772	8420	CC	TT	TT	INTERGENIC			
SNP_83394_A_8627	NW_004516156.1	scaffold772	8627	CC	TT	TT	INTERGENIC			
SNP_83395_A_9106	NW_004516156.1	scaffold772	9106	GG	AA	AA	INTERGENIC			
SNP_83396_A_9191	NW_004516156.1	scaffold772	9191	AA	TT	TT	INTERGENIC			
SNP_83397_A_11443	NW_004516156.1	scaffold772	11443	CC	AA	AA	INTERGENIC			
SNP_83399_A_12163	NW_004516156.1	scaffold772	12163	GG	TT	TT	INTERGENIC			
SNP_83400_A_13363	NW_004516156.1	scaffold772	13363	AA	GG	GG	INTERGENIC			
SNP_83401_A_17416	NW_004516156.1	scaffold772	17416	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83402_A_17418	NW_004516156.1	scaffold772	17418	GG	AA	AA	INTERGENIC		
SNP_83403_A_18060	NW_004516156.1	scaffold772	18060	TT	CC	CC	INTERGENIC		
SNP_83404_A_18178	NW_004516156.1	scaffold772	18178	TT	CC	CC	INTERGENIC		
SNP_83405_A_18186	NW_004516156.1	scaffold772	18186	TT	CC	CC	INTERGENIC		
SNP_83406_A_18197	NW_004516156.1	scaffold772	18197	AA	GG	GG	INTERGENIC		
SNP_83407_A_18204	NW_004516156.1	scaffold772	18204	CC	TT	TT	INTERGENIC		
SNP_83408_A_18345	NW_004516156.1	scaffold772	18345	AA	GG	GG	INTERGENIC		
SNP_83409_A_18467	NW_004516156.1	scaffold772	18467	AA	GG	GG	INTERGENIC		
SNP_83410_A_18642	NW_004516156.1	scaffold772	18642	AA	CC	CC	INTERGENIC		
SNP_83411_A_18734	NW_004516156.1	scaffold772	18734	CC	TT	TT	INTERGENIC		
SNP_83412_A_21199	NW_004516156.1	scaffold772	21199	AA	GG	GG	INTERGENIC		
SNP_83413_A_21201	NW_004516156.1	scaffold772	21201	TT	AA	AA	INTERGENIC		
SNP_83414_A_33826	NW_004516156.1	scaffold772	33826	TT	CC	CC	INTERGENIC		
SNP_83416_A_76402	NW_004516156.1	scaffold772	76402	GG	AA	AA	INTERGENIC		
SNP_83417_A_78890	NW_004516156.1	scaffold772	78890	AA	GG	GG	INTERGENIC		
SNP_83418_A_80858	NW_004516156.1	scaffold772	80858	TT	AA	AA	INTERGENIC		
SNP_83419_A_107214	NW_004516156.1	scaffold772	107214	GG	AA	AA	INTERGENIC		
SNP_83420_A_112798	NW_004516156.1	scaffold772	112798	TT	GG	GG	INTERGENIC		
SNP_83421_A_137315	NW_004516156.1	scaffold772	137315	TT	AA	AA	STOP_LOST	101506504	Unknown function
SNP_83422_A_139302	NW_004516156.1	scaffold772	139302	TT	AA	AA	URR	101506504	Unknown function
SNP_83423_A_139480	NW_004516156.1	scaffold772	139480	TT	CC	CC	INTERGENIC		
SNP_83425_A_140792	NW_004516156.1	scaffold772	140792	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83426_A_143572	NW_004516156.1	scaffold772	143572	CC	TT	TT	INTERGENIC			
SNP_83427_A_149118	NW_004516156.1	scaffold772	149118	TT	AA	AA	INTERGENIC			
SNP_83428_A_164711	NW_004516156.1	scaffold772	164711	AA	TT	TT	INTERGENIC			
SNP_83429_A_164712	NW_004516156.1	scaffold772	164712	TT	AA	AA	INTERGENIC			
SNP_83430_A_164714	NW_004516156.1	scaffold772	164714	GG	TT	TT	INTERGENIC			
SNP_83431_A_164721	NW_004516156.1	scaffold772	164721	CC	TT	TT	INTERGENIC			
SNP_83432_A_196447	NW_004516156.1	scaffold772	196447	AA	CC	CC	INTERGENIC			
SNP_83433_A_205833	NW_004516156.1	scaffold772	205833	TT	GG	GG	INTERGENIC			
SNP_83434_A_205846	NW_004516156.1	scaffold772	205846	TT	CC	CC	INTERGENIC			
SNP_83435_A_209875	NW_004516156.1	scaffold772	209875	AA	GG	GG	INTERGENIC			
SNP_83436_A_211395	NW_004516156.1	scaffold772	211395	GG	AA	AA	INTERGENIC			
SNP_83437_A_211480	NW_004516156.1	scaffold772	211480	AA	CC	CC	INTERGENIC			
SNP_83438_A_211497	NW_004516156.1	scaffold772	211497	AA	GG	GG	INTERGENIC			
SNP_83439_A_213540	NW_004516156.1	scaffold772	213540	AA	GG	GG	INTERGENIC			
SNP_83440_A_213547	NW_004516156.1	scaffold772	213547	TT	CC	CC	INTERGENIC			
SNP_83441_A_213601	NW_004516156.1	scaffold772	213601	TT	CC	CC	INTERGENIC			
SNP_83442_A_213631	NW_004516156.1	scaffold772	213631	TT	CC	CC	INTERGENIC			
SNP_83444_A_213670	NW_004516156.1	scaffold772	213670	GG	AA	AA	INTERGENIC			
SNP_83445_A_213730	NW_004516156.1	scaffold772	213730	GG	AA	AA	INTERGENIC			
SNP_83446_A_213740	NW_004516156.1	scaffold772	213740	AA	TT	TT	INTERGENIC			
SNP_83447_A_213744	NW_004516156.1	scaffold772	213744	AA	CC	CC	INTERGENIC			
SNP_83448_A_213851	NW_004516156.1	scaffold772	213851	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83449_A_213948	NW_004516156.1	scaffold772	213948	GG	TT	TT	INTERGENIC			
SNP_83452_A_17272	NW_004516157.1	scaffold774	17272	TT	AA	AA	INTERGENIC			
SNP_83453_A_17325	NW_004516157.1	scaffold774	17325	TT	AA	AA	INTERGENIC			
SNP_83454_A_22448	NW_004516157.1	scaffold774	22448	AA	CC	CC	INTERGENIC			
SNP_83455_A_22786	NW_004516157.1	scaffold774	22786	AA	TT	TT	INTERGENIC			
SNP_83456_A_800	NW_004516158.1	scaffold775	800	CC	TT	TT	INTERGENIC			
SNP_83457_A_818	NW_004516158.1	scaffold775	818	CC	TT	TT	INTERGENIC			
SNP_83458_A_829	NW_004516158.1	scaffold775	829	AA	GG	GG	INTERGENIC			
SNP_83459_A_1168	NW_004516158.1	scaffold775	1168	TT	CC	CC	INTERGENIC			
SNP_83460_A_12987	NW_004516158.1	scaffold775	12987	CC	GG	GG	INTERGENIC			
SNP_83461_A_13209	NW_004516158.1	scaffold775	13209	CC	TT	TT	INTERGENIC			
SNP_83462_A_16769	NW_004516158.1	scaffold775	16769	GG	TT	TT	INTERGENIC			
SNP_83463_A_16785	NW_004516158.1	scaffold775	16785	CC	TT	TT	INTERGENIC			
SNP_83465_A_16791	NW_004516158.1	scaffold775	16791	GG	AA	AA	INTERGENIC			
SNP_83466_A_16796	NW_004516158.1	scaffold775	16796	AA	GG	GG	INTERGENIC			
SNP_83467_A_45852	NW_004516158.1	scaffold775	45852	CC	GG	GG	INTERGENIC			
SNP_83468_A_71797	NW_004516158.1	scaffold775	71797	AA	GG	GG	INTRON	id205266	Unknown function	
SNP_83469_A_101450	NW_004516158.1	scaffold775	101450	CC	TT	TT	INTERGENIC			
SNP_83472_A_223424	NW_004516158.1	scaffold775	223424	TT	CC	CC	INTERGENIC			
SNP_83473_A_223453	NW_004516158.1	scaffold775	223453	AA	GG	GG	INTERGENIC			
SNP_83474_A_223459	NW_004516158.1	scaffold775	223459	GG	AA	AA	INTERGENIC			
SNP_83475_A_223469	NW_004516158.1	scaffold775	223469	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83476_A_223495	NW_004516158.1	scaffold775	223495	GG	AA	AA	INTERGENIC			
SNP_83477_A_223552	NW_004516158.1	scaffold775	223552	TT	GG	GG	INTERGENIC			
SNP_83478_A_223570	NW_004516158.1	scaffold775	223570	GG	AA	AA	INTERGENIC			
SNP_83479_A_225820	NW_004516158.1	scaffold775	225820	AA	GG	GG	INTERGENIC			
SNP_83480_A_226149	NW_004516158.1	scaffold775	226149	AA	CC	CC	INTERGENIC			
SNP_83481_A_233752	NW_004516158.1	scaffold775	233752	CC	AA	AA	INTERGENIC			
SNP_83482_A_237241	NW_004516158.1	scaffold775	237241	TT	GG	GG	INTERGENIC			
SNP_83483_A_237252	NW_004516158.1	scaffold775	237252	AA	CC	CC	INTERGENIC			
SNP_83484_A_237259	NW_004516158.1	scaffold775	237259	GG	AA	AA	INTERGENIC			
SNP_83485_A_237260	NW_004516158.1	scaffold775	237260	AA	CC	CC	INTERGENIC			
SNP_83486_A_237281	NW_004516158.1	scaffold775	237281	AA	GG	GG	INTERGENIC			
SNP_83487_A_237299	NW_004516158.1	scaffold775	237299	TT	CC	CC	INTERGENIC			
SNP_83488_A_241754	NW_004516158.1	scaffold775	241754	TT	CC	CC	INTERGENIC			
SNP_83489_A_267227	NW_004516158.1	scaffold775	267227	CC	TT	TT	INTERGENIC			
SNP_83490_A_267415	NW_004516158.1	scaffold775	267415	CC	AA	AA	INTERGENIC			
SNP_83491_A_267485	NW_004516158.1	scaffold775	267485	TT	CC	CC	INTERGENIC			
SNP_83492_A_267509	NW_004516158.1	scaffold775	267509	TT	CC	CC	INTERGENIC			
SNP_83493_A_267629	NW_004516158.1	scaffold775	267629	AA	TT	TT	INTERGENIC			
SNP_83494_A_288570	NW_004516158.1	scaffold775	288570	AA	GG	GG	INTERGENIC			
SNP_83495_A_303548	NW_004516158.1	scaffold775	303548	CC	AA	AA	INTERGENIC			
SNP_83496_A_303923	NW_004516158.1	scaffold775	303923	TT	CC	CC	INTERGENIC			
SNP_83497_A_334214	NW_004516158.1	scaffold775	334214	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83499_A_335636	NW_004516158.1	scaffold775	335636	GG	TT	TT	INTERGENIC		
SNP_83500_A_358819	NW_004516158.1	scaffold775	358819	CC	GG	GG	INTERGENIC		
SNP_83501_A_381393	NW_004516158.1	scaffold775	381393	TT	CC	CC	INTERGENIC		
SNP_83502_A_381652	NW_004516158.1	scaffold775	381652	AA	CC	CC	INTERGENIC		
SNP_83503_A_383443	NW_004516158.1	scaffold775	383443	AA	GG	GG	INTERGENIC		
SNP_83504_A_383624	NW_004516158.1	scaffold775	383624	AA	GG	GG	INTERGENIC		
SNP_83505_A_383628	NW_004516158.1	scaffold775	383628	GG	AA	AA	INTERGENIC		
SNP_83506_A_383653	NW_004516158.1	scaffold775	383653	CC	TT	TT	INTERGENIC		
SNP_83507_A_383664	NW_004516158.1	scaffold775	383664	TT	CC	CC	INTERGENIC		
SNP_83508_A_383680	NW_004516158.1	scaffold775	383680	TT	CC	CC	INTERGENIC		
SNP_83510_A_424938	NW_004516158.1	scaffold775	424938	TT	GG	GG	INTERGENIC		
SNP_83511_A_441004	NW_004516158.1	scaffold775	441004	AA	GG	GG	DRR	101508016	uncharacterized LOC101508016
SNP_83512_A_441349	NW_004516158.1	scaffold775	441349	GG	AA	AA	DRR	101508016	uncharacterized LOC101508016
SNP_83514_A_446940	NW_004516158.1	scaffold775	446940	TT	AA	AA	DRR	101508209	pectinesterase 2-like
SNP_83515_A_447641	NW_004516158.1	scaffold775	447641	TT	CC	CC	SYNONYMOUS_CODING	101508209	pectinesterase 2-like
SNP_83516_A_448317	NW_004516158.1	scaffold775	448317	GG	AA	AA	NON_SYNONYMOUS_CODING	101508209	pectinesterase 2-like
SNP_83517_A_448361	NW_004516158.1	scaffold775	448361	TT	CC	CC	SYNONYMOUS_CODING	101508209	pectinesterase 2-like
SNP_83518_A_449388	NW_004516158.1	scaffold775	449388	CC	TT	TT	URR	101508209	pectinesterase 2-like
SNP_83520_A_449872	NW_004516158.1	scaffold775	449872	CC	TT	TT	URR	101508209	pectinesterase 2-like
SNP_83521_A_450019	NW_004516158.1	scaffold775	450019	AA	CC	CC	URR	101508209	pectinesterase 2-like
SNP_83522_A_450142	NW_004516158.1	scaffold775	450142	GG	AA	AA	URR	101508209	pectinesterase 2-like
SNP_83524_A_450548	NW_004516158.1	scaffold775	450548	TT	CC	CC	URR	101508209	pectinesterase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83525_A_473727	NW_004516158.1	scaffold775	473727	GG	AA	AA	INTERGENIC			
SNP_83526_A_473810	NW_004516158.1	scaffold775	473810	TT	CC	CC	INTERGENIC			
SNP_83527_A_473930	NW_004516158.1	scaffold775	473930	TT	GG	GG	INTERGENIC			
SNP_83528_A_475697	NW_004516158.1	scaffold775	475697	AA	GG	GG	INTERGENIC			
SNP_83529_A_475724	NW_004516158.1	scaffold775	475724	CC	GG	GG	INTERGENIC			
SNP_83530_A_476026	NW_004516158.1	scaffold775	476026	AA	CC	CC	INTERGENIC			
SNP_83531_A_476139	NW_004516158.1	scaffold775	476139	TT	CC	CC	INTERGENIC			
SNP_83532_A_476181	NW_004516158.1	scaffold775	476181	CC	TT	TT	INTERGENIC			
SNP_83533_A_476189	NW_004516158.1	scaffold775	476189	TT	CC	CC	INTERGENIC			
SNP_83534_A_476389	NW_004516158.1	scaffold775	476389	GG	AA	AA	INTERGENIC			
SNP_83535_A_481798	NW_004516158.1	scaffold775	481798	CC	AA	AA	INTERGENIC			
SNP_83536_A_483657	NW_004516158.1	scaffold775	483657	CC	TT	TT	INTERGENIC			
SNP_83537_A_483709	NW_004516158.1	scaffold775	483709	GG	AA	AA	INTERGENIC			
SNP_83538_A_483715	NW_004516158.1	scaffold775	483715	GG	AA	AA	INTERGENIC			
SNP_83539_A_484848	NW_004516158.1	scaffold775	484848	AA	CC	CC	INTERGENIC			
SNP_83540_A_21969	NW_004516159.1	scaffold776	21969	AA	GG	GG	INTERGENIC			
SNP_83541_A_23649	NW_004516159.1	scaffold776	23649	AA	TT	TT	INTERGENIC			
SNP_83542_A_27223	NW_004516159.1	scaffold776	27223	TT	CC	CC	INTERGENIC			
SNP_83543_A_71725	NW_004516159.1	scaffold776	71725	AA	GG	GG	INTERGENIC			
SNP_83544_A_72024	NW_004516159.1	scaffold776	72024	TT	AA	AA	INTERGENIC			
SNP_83546_A_115075	NW_004516159.1	scaffold776	115075	TT	CC	CC	INTERGENIC			
SNP_83547_A_144216	NW_004516159.1	scaffold776	144216	CC	TT	TT	INTRON	101512067	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83548_A_144217	NW_004516159.1	scaffold776	144217	TT	AA	AA	INTRON	101512067	Unknown function
SNP_83549_A_156114	NW_004516159.1	scaffold776	156114	AA	GG	GG	INTERGENIC		
SNP_83550_A_177745	NW_004516159.1	scaffold776	177745	CC	TT	TT	INTRON	101512394	eukaryotic initiation factor 4A-8-like
SNP_83551_A_177944	NW_004516159.1	scaffold776	177944	TT	GG	GG	INTRON	101512394	eukaryotic initiation factor 4A-8-like
SNP_83552_A_182156	NW_004516159.1	scaffold776	182156	CC	TT	TT	URR	101512394	eukaryotic initiation factor 4A-8-like
SNP_83553_A_209125	NW_004516159.1	scaffold776	209125	GG	TT	TT	INTRON	101513031	uncharacterized LOC101513031
SNP_83554_A_218793	NW_004516159.1	scaffold776	218793	TT	GG	GG	SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83555_A_218816	NW_004516159.1	scaffold776	218816	AA	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83556_A_218836	NW_004516159.1	scaffold776	218836	CC	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83557_A_218898	NW_004516159.1	scaffold776	218898	GG	AA	AA	SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83558_A_218909	NW_004516159.1	scaffold776	218909	AA	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83559_A_219010	NW_004516159.1	scaffold776	219010	TT	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83560_A_219019	NW_004516159.1	scaffold776	219019	GG	CC	CC	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83561_A_219212	NW_004516159.1	scaffold776	219212	AA	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83562_A_219344	NW_004516159.1	scaffold776	219344	TT	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83563_A_219358	NW_004516159.1	scaffold776	219358	CC	AA	AA	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83564_A_219368	NW_004516159.1	scaffold776	219368	TT	CC	CC	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83565_A_219938	NW_004516159.1	scaffold776	219938	AA	GG	GG	NON_SYNONYMOUS_CODING	101513031	uncharacterized LOC101513031
SNP_83566_A_220308	NW_004516159.1	scaffold776	220308	AA	CC	CC	URR	101513031	uncharacterized LOC101513031
SNP_83567_A_220309	NW_004516159.1	scaffold776	220309	TT	GG	GG	URR	101513031	uncharacterized LOC101513031
SNP_83568_A_220318	NW_004516159.1	scaffold776	220318	TT	GG	GG	URR	101513031	uncharacterized LOC101513031
SNP_83570_A_241939	NW_004516159.1	scaffold776	241939	TT	AA	AA	URR	101513356	uncharacterized LOC101513356

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83571_A_572	NW_004516160.1	scaffold778	572	GG	AA	AA	INTERGENIC			
SNP_83572_A_943	NW_004516161.1	scaffold779	943	TT	AA	AA	INTERGENIC			
SNP_83573_A_994	NW_004516161.1	scaffold779	994	CC	AA	AA	INTERGENIC			
SNP_83574_A_1087	NW_004516161.1	scaffold779	1087	AA	CC	CC	INTERGENIC			
SNP_83575_A_1211	NW_004516161.1	scaffold779	1211	AA	GG	GG	INTERGENIC			
SNP_83576_A_1339	NW_004516161.1	scaffold779	1339	TT	AA	AA	INTERGENIC			
SNP_83577_A_1345	NW_004516161.1	scaffold779	1345	TT	CC	CC	INTERGENIC			
SNP_83578_A_1412	NW_004516161.1	scaffold779	1412	AA	GG	GG	INTERGENIC			
SNP_83579_A_1417	NW_004516161.1	scaffold779	1417	AA	GG	GG	INTERGENIC			
SNP_83580_A_1425	NW_004516161.1	scaffold779	1425	TT	AA	AA	INTERGENIC			
SNP_83581_A_1462	NW_004516161.1	scaffold779	1462	TT	AA	AA	INTERGENIC			
SNP_83582_A_1569	NW_004516161.1	scaffold779	1569	GG	AA	AA	INTERGENIC			
SNP_83583_A_1607	NW_004516161.1	scaffold779	1607	CC	TT	TT	INTERGENIC			
SNP_83584_A_1635	NW_004516161.1	scaffold779	1635	TT	AA	AA	INTERGENIC			
SNP_83585_A_1724	NW_004516161.1	scaffold779	1724	TT	GG	GG	INTERGENIC			
SNP_83586_A_1744	NW_004516161.1	scaffold779	1744	CC	GG	GG	INTERGENIC			
SNP_83587_A_1762	NW_004516161.1	scaffold779	1762	AA	GG	GG	INTERGENIC			
SNP_83588_A_6191	NW_004516161.1	scaffold779	6191	AA	GG	GG	INTERGENIC			
SNP_83589_A_6202	NW_004516161.1	scaffold779	6202	CC	TT	TT	INTERGENIC			
SNP_83590_A_8325	NW_004516161.1	scaffold779	8325	GG	AA	AA	INTERGENIC			
SNP_83591_A_14273	NW_004516161.1	scaffold779	14273	CC	TT	TT	INTERGENIC			
SNP_83592_A_3652	NW_004516162.1	scaffold781	3652	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83593_A_30409	NW_004516162.1	scaffold781	30409	CC	TT	TT	INTERGENIC			
SNP_83594_A_30708	NW_004516162.1	scaffold781	30708	TT	CC	CC	INTERGENIC			
SNP_83595_A_48	NW_004516164.1	scaffold783	48	AA	GG	GG	INTERGENIC			
SNP_83597_A_98	NW_004516164.1	scaffold783	98	GG	AA	AA	INTERGENIC			
SNP_83598_A_39701	NW_004516164.1	scaffold783	39701	GG	TT	TT	INTERGENIC			
SNP_83599_A_81886	NW_004516164.1	scaffold783	81886	CC	AA	AA	INTERGENIC			
SNP_83600_A_95479	NW_004516164.1	scaffold783	95479	TT	CC	CC	INTERGENIC			
SNP_83601_A_99089	NW_004516164.1	scaffold783	99089	AA	GG	GG	INTERGENIC			
SNP_83603_A_99107	NW_004516164.1	scaffold783	99107	TT	CC	CC	INTERGENIC			
SNP_83604_A_104675	NW_004516164.1	scaffold783	104675	GG	TT	TT	INTERGENIC			
SNP_83605_A_104742	NW_004516164.1	scaffold783	104742	CC	AA	AA	INTERGENIC			
SNP_83606_A_104787	NW_004516164.1	scaffold783	104787	CC	TT	TT	INTERGENIC			
SNP_83607_A_104887	NW_004516164.1	scaffold783	104887	GG	AA	AA	INTERGENIC			
SNP_83608_A_114251	NW_004516164.1	scaffold783	114251	TT	CC	CC	INTERGENIC			
SNP_83609_A_120578	NW_004516164.1	scaffold783	120578	GG	TT	TT	INTERGENIC			
SNP_83610_A_128543	NW_004516164.1	scaffold783	128543	TT	GG	GG	INTERGENIC			
SNP_83611_A_128545	NW_004516164.1	scaffold783	128545	TT	GG	GG	INTERGENIC			
SNP_83612_A_128921	NW_004516164.1	scaffold783	128921	TT	GG	GG	INTERGENIC			
SNP_83613_A_131688	NW_004516164.1	scaffold783	131688	GG	CC	CC	INTERGENIC			
SNP_83614_A_145657	NW_004516164.1	scaffold783	145657	TT	CC	CC	INTERGENIC			
SNP_83616_A_179954	NW_004516164.1	scaffold783	179954	TT	CC	CC	INTERGENIC			
SNP_83617_A_180001	NW_004516164.1	scaffold783	180001	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83618_A_180057	NW_004516164.1	scaffold783	180057	GG	TT	TT	INTERGENIC			
SNP_83619_A_208156	NW_004516164.1	scaffold783	208156	GG	TT	TT	INTERGENIC			
SNP_83620_A_208203	NW_004516164.1	scaffold783	208203	AA	GG	GG	INTERGENIC			
SNP_83621_A_208324	NW_004516164.1	scaffold783	208324	TT	CC	CC	INTERGENIC			
SNP_83622_A_208485	NW_004516164.1	scaffold783	208485	TT	CC	CC	INTERGENIC			
SNP_83623_A_208488	NW_004516164.1	scaffold783	208488	GG	AA	AA	INTERGENIC			
SNP_83624_A_208557	NW_004516164.1	scaffold783	208557	CC	TT	TT	INTERGENIC			
SNP_83625_A_208563	NW_004516164.1	scaffold783	208563	GG	AA	AA	INTERGENIC			
SNP_83626_A_208608	NW_004516164.1	scaffold783	208608	CC	TT	TT	INTERGENIC			
SNP_83627_A_222218	NW_004516164.1	scaffold783	222218	CC	GG	GG	INTERGENIC			
SNP_83628_A_222542	NW_004516164.1	scaffold783	222542	CC	TT	TT	INTERGENIC			
SNP_83629_A_222551	NW_004516164.1	scaffold783	222551	TT	GG	GG	INTERGENIC			
SNP_83630_A_244725	NW_004516164.1	scaffold783	244725	TT	CC	CC	INTERGENIC			
SNP_83631_A_272104	NW_004516164.1	scaffold783	272104	CC	TT	TT	INTERGENIC			
SNP_83632_A_2969	NW_004516168.1	scaffold787	2969	AA	CC	CC	INTERGENIC			
SNP_83633_A_9754	NW_004516168.1	scaffold787	9754	CC	AA	AA	INTERGENIC			
SNP_83634_A_10220	NW_004516168.1	scaffold787	10220	TT	CC	CC	INTERGENIC			
SNP_83635_A_12755	NW_004516168.1	scaffold787	12755	AA	GG	GG	INTERGENIC			
SNP_83636_A_16663	NW_004516168.1	scaffold787	16663	AA	GG	GG	INTERGENIC			
SNP_83637_A_16721	NW_004516168.1	scaffold787	16721	TT	GG	GG	INTERGENIC			
SNP_83638_A_19368	NW_004516168.1	scaffold787	19368	TT	CC	CC	INTERGENIC			
SNP_83639_A_24758	NW_004516168.1	scaffold787	24758	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83640_A_24873	NW_004516168.1	scaffold787	24873	CC	TT	TT	INTERGENIC			
SNP_83641_A_24973	NW_004516168.1	scaffold787	24973	TT	GG	GG	INTERGENIC			
SNP_83642_A_25048	NW_004516168.1	scaffold787	25048	TT	CC	CC	INTERGENIC			
SNP_83643_A_25059	NW_004516168.1	scaffold787	25059	CC	AA	AA	INTERGENIC			
SNP_83644_A_25116	NW_004516168.1	scaffold787	25116	GG	CC	CC	INTERGENIC			
SNP_83645_A_28839	NW_004516168.1	scaffold787	28839	CC	AA	AA	INTERGENIC			
SNP_83646_A_29017	NW_004516168.1	scaffold787	29017	TT	GG	GG	INTERGENIC			
SNP_83647_A_31073	NW_004516168.1	scaffold787	31073	AA	TT	TT	INTERGENIC			
SNP_83648_A_33106	NW_004516168.1	scaffold787	33106	TT	AA	AA	INTERGENIC			
SNP_83649_A_34808	NW_004516168.1	scaffold787	34808	TT	CC	CC	INTERGENIC			
SNP_83650_A_35509	NW_004516168.1	scaffold787	35509	TT	AA	AA	INTERGENIC			
SNP_83651_A_38269	NW_004516168.1	scaffold787	38269	GG	TT	TT	INTERGENIC			
SNP_83652_A_43856	NW_004516168.1	scaffold787	43856	AA	CC	CC	INTERGENIC			
SNP_83653_A_57332	NW_004516168.1	scaffold787	57332	TT	AA	AA	INTERGENIC			
SNP_83654_A_57333	NW_004516168.1	scaffold787	57333	TT	CC	CC	INTERGENIC			
SNP_83655_A_58625	NW_004516168.1	scaffold787	58625	AA	GG	GG	INTERGENIC			
SNP_83656_A_58689	NW_004516168.1	scaffold787	58689	AA	TT	TT	INTERGENIC			
SNP_83657_A_58765	NW_004516168.1	scaffold787	58765	CC	TT	TT	INTERGENIC			
SNP_83658_A_61593	NW_004516168.1	scaffold787	61593	AA	TT	TT	INTERGENIC			
SNP_83659_A_61876	NW_004516168.1	scaffold787	61876	TT	GG	GG	INTERGENIC			
SNP_83660_A_65650	NW_004516168.1	scaffold787	65650	AA	GG	GG	INTERGENIC			
SNP_83661_A_66269	NW_004516168.1	scaffold787	66269	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83662_A_66354	NW_004516168.1	scaffold787	66354	AA	CC	CC	INTERGENIC			
SNP_83663_A_69211	NW_004516168.1	scaffold787	69211	GG	CC	CC	INTERGENIC			
SNP_83664_A_70346	NW_004516168.1	scaffold787	70346	TT	CC	CC	INTERGENIC			
SNP_83665_A_70373	NW_004516168.1	scaffold787	70373	AA	GG	GG	INTERGENIC			
SNP_83666_A_71858	NW_004516168.1	scaffold787	71858	AA	GG	GG	INTERGENIC			
SNP_83667_A_72914	NW_004516168.1	scaffold787	72914	TT	GG	GG	INTERGENIC			
SNP_83668_A_75920	NW_004516168.1	scaffold787	75920	TT	AA	AA	INTERGENIC			
SNP_83669_A_77529	NW_004516168.1	scaffold787	77529	CC	GG	GG	INTERGENIC			
SNP_83670_A_78990	NW_004516168.1	scaffold787	78990	AA	CC	CC	INTERGENIC			
SNP_83671_A_79191	NW_004516168.1	scaffold787	79191	TT	CC	CC	INTERGENIC			
SNP_83672_A_79280	NW_004516168.1	scaffold787	79280	TT	GG	GG	INTERGENIC			
SNP_83673_A_79281	NW_004516168.1	scaffold787	79281	TT	GG	GG	INTERGENIC			
SNP_83674_A_79286	NW_004516168.1	scaffold787	79286	AA	GG	GG	INTERGENIC			
SNP_83675_A_79301	NW_004516168.1	scaffold787	79301	AA	CC	CC	INTERGENIC			
SNP_83676_A_79306	NW_004516168.1	scaffold787	79306	GG	CC	CC	INTERGENIC			
SNP_83677_A_79317	NW_004516168.1	scaffold787	79317	GG	AA	AA	INTERGENIC			
SNP_83678_A_79322	NW_004516168.1	scaffold787	79322	TT	CC	CC	INTERGENIC			
SNP_83679_A_79357	NW_004516168.1	scaffold787	79357	TT	GG	GG	INTERGENIC			
SNP_83680_A_79396	NW_004516168.1	scaffold787	79396	TT	GG	GG	INTERGENIC			
SNP_83681_A_87069	NW_004516168.1	scaffold787	87069	AA	GG	GG	INTERGENIC			
SNP_83682_A_87186	NW_004516168.1	scaffold787	87186	CC	TT	TT	INTERGENIC			
SNP_83683_A_87263	NW_004516168.1	scaffold787	87263	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83684_A_89601	NW_004516168.1	scaffold787	89601	GG	AA	AA	INTERGENIC			
SNP_83686_A_92839	NW_004516168.1	scaffold787	92839	GG	AA	AA	INTERGENIC			
SNP_83687_A_96433	NW_004516168.1	scaffold787	96433	AA	GG	GG	INTERGENIC			
SNP_83688_A_104880	NW_004516168.1	scaffold787	104880	AA	GG	GG	INTERGENIC			
SNP_83689_A_104922	NW_004516168.1	scaffold787	104922	AA	CC	CC	INTERGENIC			
SNP_83690_A_113380	NW_004516168.1	scaffold787	113380	AA	TT	TT	INTERGENIC			
SNP_83691_A_113812	NW_004516168.1	scaffold787	113812	GG	CC	CC	INTERGENIC			
SNP_83692_A_114197	NW_004516168.1	scaffold787	114197	GG	TT	TT	INTERGENIC			
SNP_83693_A_117186	NW_004516168.1	scaffold787	117186	TT	GG	GG	INTERGENIC			
SNP_83695_A_136497	NW_004516168.1	scaffold787	136497	AA	TT	TT	INTERGENIC			
SNP_83696_A_140851	NW_004516168.1	scaffold787	140851	GG	AA	AA	INTERGENIC			
SNP_83697_A_146493	NW_004516168.1	scaffold787	146493	AA	GG	GG	INTERGENIC			
SNP_83698_A_149473	NW_004516168.1	scaffold787	149473	AA	GG	GG	INTERGENIC			
SNP_83700_A_149833	NW_004516168.1	scaffold787	149833	GG	AA	AA	INTERGENIC			
SNP_83701_A_150249	NW_004516168.1	scaffold787	150249	CC	TT	TT	INTERGENIC			
SNP_83702_A_152223	NW_004516168.1	scaffold787	152223	TT	CC	CC	INTERGENIC			
SNP_83705_A_284308	NW_004516168.1	scaffold787	284308	GG	AA	AA	INTERGENIC			
SNP_83707_A_290887	NW_004516168.1	scaffold787	290887	AA	GG	GG	INTERGENIC			
SNP_83708_A_294321	NW_004516168.1	scaffold787	294321	GG	TT	TT	INTERGENIC			
SNP_83709_A_299479	NW_004516168.1	scaffold787	299479	CC	AA	AA	INTERGENIC			
SNP_83710_A_305766	NW_004516168.1	scaffold787	305766	AA	GG	GG	INTERGENIC			
SNP_83711_A_306989	NW_004516168.1	scaffold787	306989	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83712_A_309234	NW_004516168.1	scaffold787	309234	CC	TT	TT	INTERGENIC		
SNP_83713_A_312849	NW_004516168.1	scaffold787	312849	CC	TT	TT	INTERGENIC		
SNP_83714_A_320152	NW_004516168.1	scaffold787	320152	GG	TT	TT	INTERGENIC		
SNP_83715_A_320153	NW_004516168.1	scaffold787	320153	GG	AA	AA	INTERGENIC		
SNP_83716_A_320522	NW_004516168.1	scaffold787	320522	AA	GG	GG	INTERGENIC		
SNP_83717_A_320587	NW_004516168.1	scaffold787	320587	TT	CC	CC	INTERGENIC		
SNP_83719_A_339367	NW_004516168.1	scaffold787	339367	TT	GG	GG	INTERGENIC		
SNP_83720_A_343569	NW_004516168.1	scaffold787	343569	CC	TT	TT	DRR	101488729	heme oxygenase 1, chloroplastic-like
SNP_83722_A_350852	NW_004516168.1	scaffold787	350852	TT	AA	AA	DRR	101489821	Unknown function
SNP_83723_A_353656	NW_004516168.1	scaffold787	353656	AA	GG	GG	INTERGENIC		
SNP_83724_A_355096	NW_004516168.1	scaffold787	355096	GG	TT	TT	URR	101489821	Unknown function
SNP_83725_A_356436	NW_004516168.1	scaffold787	356436	CC	TT	TT	INTERGENIC		
SNP_83726_A_361931	NW_004516168.1	scaffold787	361931	GG	AA	AA	INTERGENIC		
SNP_83727_A_369608	NW_004516168.1	scaffold787	369608	TT	GG	GG	INTERGENIC		
SNP_83728_A_369650	NW_004516168.1	scaffold787	369650	CC	GG	GG	INTERGENIC		
SNP_83729_A_397437	NW_004516168.1	scaffold787	397437	TT	GG	GG	URR	101490797	guanine nucleotide-binding protein-like NSN1
SNP_83730_A_399113	NW_004516168.1	scaffold787	399113	TT	AA	AA	INTERGENIC		
SNP_83731_A_399371	NW_004516168.1	scaffold787	399371	TT	CC	CC	INTERGENIC		
SNP_83732_A_405354	NW_004516168.1	scaffold787	405354	AA	TT	TT	INTERGENIC		
SNP_83733_A_407104	NW_004516168.1	scaffold787	407104	TT	AA	AA	INTERGENIC		
SNP_83735_A_437019	NW_004516168.1	scaffold787	437019	CC	AA	AA	INTERGENIC		
SNP_83737_A_438664	NW_004516168.1	scaffold787	438664	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83738_A_449193	NW_004516168.1	scaffold787	449193	AA	CC	CC	INTERGENIC			
SNP_83739_A_460119	NW_004516168.1	scaffold787	460119	AA	GG	GG	INTERGENIC			
SNP_83740_A_460259	NW_004516168.1	scaffold787	460259	TT	CC	CC	INTERGENIC			
SNP_83741_A_460367	NW_004516168.1	scaffold787	460367	AA	TT	TT	INTERGENIC			
SNP_83742_A_460406	NW_004516168.1	scaffold787	460406	GG	AA	AA	INTERGENIC			
SNP_83743_A_460579	NW_004516168.1	scaffold787	460579	TT	CC	CC	INTERGENIC			
SNP_83745_A_466544	NW_004516168.1	scaffold787	466544	AA	TT	TT	INTERGENIC			
SNP_83746_A_470220	NW_004516168.1	scaffold787	470220	GG	AA	AA	INTERGENIC			
SNP_83747_A_472913	NW_004516168.1	scaffold787	472913	GG	TT	TT	INTERGENIC			
SNP_83749_A_472996	NW_004516168.1	scaffold787	472996	GG	TT	TT	INTERGENIC			
SNP_83750_A_473367	NW_004516168.1	scaffold787	473367	CC	TT	TT	INTERGENIC			
SNP_83751_A_13761	NW_004516169.1	scaffold789	13761	TT	GG	GG	INTERGENIC			
SNP_83752_A_13771	NW_004516169.1	scaffold789	13771	TT	CC	CC	INTERGENIC			
SNP_83753_A_13833	NW_004516169.1	scaffold789	13833	AA	GG	GG	INTERGENIC			
SNP_83754_A_13847	NW_004516169.1	scaffold789	13847	GG	AA	AA	INTERGENIC			
SNP_83755_A_14248	NW_004516169.1	scaffold789	14248	GG	AA	AA	INTERGENIC			
SNP_83756_A_17237	NW_004516169.1	scaffold789	17237	GG	AA	AA	INTERGENIC			
SNP_83757_A_17574	NW_004516169.1	scaffold789	17574	AA	GG	GG	INTERGENIC			
SNP_83758_A_17599	NW_004516169.1	scaffold789	17599	TT	CC	CC	INTERGENIC			
SNP_83759_A_17601	NW_004516169.1	scaffold789	17601	TT	CC	CC	INTERGENIC			
SNP_83760_A_17643	NW_004516169.1	scaffold789	17643	CC	GG	GG	INTERGENIC			
SNP_83761_A_17652	NW_004516169.1	scaffold789	17652	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83762_A_26824	NW_004516169.1	scaffold789	26824	AA	GG	GG	INTERGENIC			
SNP_83763_A_26825	NW_004516169.1	scaffold789	26825	GG	TT	TT	INTERGENIC			
SNP_83764_A_26855	NW_004516169.1	scaffold789	26855	TT	GG	GG	INTERGENIC			
SNP_83765_A_35039	NW_004516169.1	scaffold789	35039	TT	AA	AA	INTERGENIC			
SNP_83766_A_35040	NW_004516169.1	scaffold789	35040	TT	CC	CC	INTERGENIC			
SNP_83767_A_57961	NW_004516169.1	scaffold789	57961	AA	TT	TT	INTERGENIC			
SNP_83768_A_62884	NW_004516169.1	scaffold789	62884	TT	AA	AA	INTERGENIC			
SNP_83769_A_62993	NW_004516169.1	scaffold789	62993	TT	AA	AA	INTERGENIC			
SNP_83770_A_62994	NW_004516169.1	scaffold789	62994	CC	TT	TT	INTERGENIC			
SNP_83771_A_63474	NW_004516169.1	scaffold789	63474	CC	TT	TT	INTERGENIC			
SNP_83772_A_63485	NW_004516169.1	scaffold789	63485	TT	AA	AA	INTERGENIC			
SNP_83773_A_1369	NW_004516170.1	scaffold793	1369	AA	CC	CC	INTERGENIC			
SNP_83774_A_39105	NW_004516170.1	scaffold793	39105	TT	AA	AA	INTERGENIC			
SNP_83775_A_39145	NW_004516170.1	scaffold793	39145	CC	TT	TT	INTERGENIC			
SNP_83776_A_39298	NW_004516170.1	scaffold793	39298	AA	GG	GG	INTERGENIC			
SNP_83777_A_39305	NW_004516170.1	scaffold793	39305	CC	TT	TT	INTERGENIC			
SNP_83779_A_58802	NW_004516170.1	scaffold793	58802	GG	AA	AA	URR	101492413	uncharacterized LOC101492413	
SNP_83780_A_103841	NW_004516170.1	scaffold793	103841	TT	AA	AA	INTERGENIC			
SNP_83782_A_127085	NW_004516170.1	scaffold793	127085	TT	AA	AA	INTERGENIC			
SNP_83783_A_127110	NW_004516170.1	scaffold793	127110	TT	CC	CC	INTERGENIC			
SNP_83784_A_127559	NW_004516170.1	scaffold793	127559	CC	TT	TT	INTERGENIC			
SNP_83785_A_128215	NW_004516170.1	scaffold793	128215	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83786_A_128327	NW_004516170.1	scaffold793	128327	GG	CC	CC	INTERGENIC			
SNP_83787_A_128331	NW_004516170.1	scaffold793	128331	AA	GG	GG	INTERGENIC			
SNP_83788_A_128386	NW_004516170.1	scaffold793	128386	TT	CC	CC	INTERGENIC			
SNP_83790_A_158298	NW_004516170.1	scaffold793	158298	AA	GG	GG	INTERGENIC			
SNP_83791_A_178633	NW_004516170.1	scaffold793	178633	TT	CC	CC	INTERGENIC			
SNP_83792_A_192634	NW_004516170.1	scaffold793	192634	CC	TT	TT	INTERGENIC			
SNP_83793_A_192820	NW_004516170.1	scaffold793	192820	GG	AA	AA	INTERGENIC			
SNP_83794_A_193158	NW_004516170.1	scaffold793	193158	TT	CC	CC	INTERGENIC			
SNP_83795_A_194289	NW_004516170.1	scaffold793	194289	TT	CC	CC	INTERGENIC			
SNP_83796_A_194294	NW_004516170.1	scaffold793	194294	AA	TT	TT	INTERGENIC			
SNP_83797_A_194301	NW_004516170.1	scaffold793	194301	TT	CC	CC	INTERGENIC			
SNP_83799_A_248509	NW_004516170.1	scaffold793	248509	CC	GG	GG	INTERGENIC			
SNP_83800_A_67536	NW_004516171.1	scaffold794	67536	TT	CC	CC	INTERGENIC			
SNP_83801_A_79649	NW_004516171.1	scaffold794	79649	TT	CC	CC	INTERGENIC			
SNP_83802_A_81639	NW_004516171.1	scaffold794	81639	GG	AA	AA	INTERGENIC			
SNP_83803_A_137243	NW_004516171.1	scaffold794	137243	AA	CC	CC	INTERGENIC			
SNP_83804_A_137276	NW_004516171.1	scaffold794	137276	AA	GG	GG	INTERGENIC			
SNP_83805_A_137778	NW_004516171.1	scaffold794	137778	TT	CC	CC	INTERGENIC			
SNP_83806_A_137917	NW_004516171.1	scaffold794	137917	CC	TT	TT	INTERGENIC			
SNP_83807_A_137943	NW_004516171.1	scaffold794	137943	TT	CC	CC	INTERGENIC			
SNP_83808_A_138050	NW_004516171.1	scaffold794	138050	CC	TT	TT	INTERGENIC			
SNP_83809_A_138064	NW_004516171.1	scaffold794	138064	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83810_A_138126	NW_004516171.1	scaffold794	138126	GG	AA	AA	INTERGENIC			
SNP_83812_A_138149	NW_004516171.1	scaffold794	138149	GG	AA	AA	INTERGENIC			
SNP_83813_A_138195	NW_004516171.1	scaffold794	138195	TT	CC	CC	INTERGENIC			
SNP_83814_A_138281	NW_004516171.1	scaffold794	138281	TT	CC	CC	INTERGENIC			
SNP_83815_A_138338	NW_004516171.1	scaffold794	138338	TT	CC	CC	INTERGENIC			
SNP_83816_A_138367	NW_004516171.1	scaffold794	138367	GG	AA	AA	INTERGENIC			
SNP_83817_A_138370	NW_004516171.1	scaffold794	138370	GG	AA	AA	INTERGENIC			
SNP_83818_A_138502	NW_004516171.1	scaffold794	138502	TT	GG	GG	INTERGENIC			
SNP_83819_A_138532	NW_004516171.1	scaffold794	138532	CC	TT	TT	INTERGENIC			
SNP_83820_A_138548	NW_004516171.1	scaffold794	138548	CC	TT	TT	INTERGENIC			
SNP_83821_A_138587	NW_004516171.1	scaffold794	138587	GG	TT	TT	INTERGENIC			
SNP_83822_A_138611	NW_004516171.1	scaffold794	138611	AA	TT	TT	INTERGENIC			
SNP_83823_A_168960	NW_004516171.1	scaffold794	168960	AA	GG	GG	INTERGENIC			
SNP_83824_A_168977	NW_004516171.1	scaffold794	168977	CC	TT	TT	INTERGENIC			
SNP_83825_A_169062	NW_004516171.1	scaffold794	169062	TT	AA	AA	INTERGENIC			
SNP_83826_A_169354	NW_004516171.1	scaffold794	169354	AA	CC	CC	INTERGENIC			
SNP_83827_A_169376	NW_004516171.1	scaffold794	169376	AA	CC	CC	INTERGENIC			
SNP_83828_A_169415	NW_004516171.1	scaffold794	169415	GG	TT	TT	INTERGENIC			
SNP_83829_A_194866	NW_004516171.1	scaffold794	194866	CC	TT	TT	INTERGENIC			
SNP_83830_A_194868	NW_004516171.1	scaffold794	194868	TT	GG	GG	INTERGENIC			
SNP_83831_A_194916	NW_004516171.1	scaffold794	194916	AA	TT	TT	INTERGENIC			
SNP_83832_A_195005	NW_004516171.1	scaffold794	195005	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83833_A_197018	NW_004516171.1	scaffold794	197018	TT	GG	GG	INTERGENIC			
SNP_83834_A_222103	NW_004516171.1	scaffold794	222103	AA	CC	CC	INTERGENIC			
SNP_83835_A_231910	NW_004516171.1	scaffold794	231910	CC	TT	TT	INTERGENIC			
SNP_83836_A_243067	NW_004516171.1	scaffold794	243067	AA	GG	GG	INTERGENIC			
SNP_83837_A_243264	NW_004516171.1	scaffold794	243264	TT	AA	AA	INTERGENIC			
SNP_83838_A_243412	NW_004516171.1	scaffold794	243412	GG	TT	TT	INTERGENIC			
SNP_83839_A_243417	NW_004516171.1	scaffold794	243417	GG	TT	TT	INTERGENIC			
SNP_83840_A_243514	NW_004516171.1	scaffold794	243514	TT	GG	GG	INTERGENIC			
SNP_83841_A_243814	NW_004516171.1	scaffold794	243814	AA	GG	GG	INTERGENIC			
SNP_83842_A_245462	NW_004516171.1	scaffold794	245462	GG	CC	CC	INTERGENIC			
SNP_83843_A_245539	NW_004516171.1	scaffold794	245539	TT	GG	GG	INTERGENIC			
SNP_83844_A_245696	NW_004516171.1	scaffold794	245696	TT	CC	CC	INTERGENIC			
SNP_83845_A_245698	NW_004516171.1	scaffold794	245698	CC	AA	AA	INTERGENIC			
SNP_83846_A_245859	NW_004516171.1	scaffold794	245859	CC	AA	AA	INTERGENIC			
SNP_83847_A_245902	NW_004516171.1	scaffold794	245902	GG	AA	AA	INTERGENIC			
SNP_83848_A_245989	NW_004516171.1	scaffold794	245989	AA	TT	TT	INTERGENIC			
SNP_83849_A_246022	NW_004516171.1	scaffold794	246022	CC	TT	TT	INTERGENIC			
SNP_83850_A_246052	NW_004516171.1	scaffold794	246052	GG	AA	AA	INTERGENIC			
SNP_83851_A_7292	NW_004516173.1	scaffold796	7292	CC	TT	TT	INTERGENIC			
SNP_83852_A_7407	NW_004516173.1	scaffold796	7407	TT	GG	GG	INTERGENIC			
SNP_83854_A_7536	NW_004516173.1	scaffold796	7536	TT	CC	CC	INTERGENIC			
SNP_83855_A_11471	NW_004516173.1	scaffold796	11471	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83856_A_17749	NW_004516173.1	scaffold796	17749	AA	TT	TT	INTERGENIC			
SNP_83858_A_28038	NW_004516173.1	scaffold796	28038	AA	GG	GG	INTERGENIC			
SNP_83860_A_33749	NW_004516173.1	scaffold796	33749	GG	AA	AA	INTERGENIC			
SNP_83861_A_14797	NW_004516174.1	scaffold797	14797	AA	TT	TT	INTERGENIC			
SNP_83862_A_14925	NW_004516174.1	scaffold797	14925	GG	AA	AA	INTERGENIC			
SNP_83863_A_14969	NW_004516174.1	scaffold797	14969	AA	GG	GG	INTERGENIC			
SNP_83865_A_16081	NW_004516174.1	scaffold797	16081	CC	TT	TT	INTERGENIC			
SNP_83866_A_16116	NW_004516174.1	scaffold797	16116	TT	CC	CC	INTERGENIC			
SNP_83867_A_16138	NW_004516174.1	scaffold797	16138	AA	GG	GG	INTERGENIC			
SNP_83868_A_52852	NW_004516174.1	scaffold797	52852	TT	CC	CC	INTERGENIC			
SNP_83869_A_53626	NW_004516174.1	scaffold797	53626	CC	AA	AA	INTERGENIC			
SNP_83870_A_53639	NW_004516174.1	scaffold797	53639	CC	AA	AA	INTERGENIC			
SNP_83871_A_53714	NW_004516174.1	scaffold797	53714	TT	AA	AA	INTERGENIC			
SNP_83872_A_53717	NW_004516174.1	scaffold797	53717	GG	CC	CC	INTERGENIC			
SNP_83873_A_53721	NW_004516174.1	scaffold797	53721	CC	GG	GG	INTERGENIC			
SNP_83874_A_53904	NW_004516174.1	scaffold797	53904	GG	CC	CC	INTERGENIC			
SNP_83875_A_53911	NW_004516174.1	scaffold797	53911	TT	GG	GG	INTERGENIC			
SNP_83876_A_54008	NW_004516174.1	scaffold797	54008	AA	GG	GG	INTERGENIC			
SNP_83877_A_54019	NW_004516174.1	scaffold797	54019	AA	TT	TT	INTERGENIC			
SNP_83878_A_58204	NW_004516174.1	scaffold797	58204	TT	CC	CC	INTERGENIC			
SNP_83879_A_1308	NW_004516175.1	scaffold798	1308	GG	TT	TT	INTERGENIC			
SNP_83880_A_1309	NW_004516175.1	scaffold798	1309	TT	CC	CC	INTERGENIC			

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SNP_83881_A_1328	NW_004516175.1	scaffold798	1328	CC	AA	AA	INTERGENIC		
SNP_83882_A_1338	NW_004516175.1	scaffold798	1338	CC	TT	TT	INTERGENIC		
SNP_83883_A_1346	NW_004516175.1	scaffold798	1346	AA	CC	CC	INTERGENIC		
SNP_83884_A_1353	NW_004516175.1	scaffold798	1353	AA	CC	CC	INTERGENIC		
SNP_83885_A_7851	NW_004516175.1	scaffold798	7851	CC	TT	TT	INTERGENIC		
SNP_83886_A_16567	NW_004516175.1	scaffold798	16567	AA	GG	GG	INTERGENIC		
SNP_83887_A_16568	NW_004516175.1	scaffold798	16568	TT	GG	GG	INTERGENIC		
SNP_83889_A_17278	NW_004516175.1	scaffold798	17278	CC	TT	TT	INTERGENIC		
SNP_83890_A_17310	NW_004516175.1	scaffold798	17310	TT	CC	CC	INTERGENIC		
SNP_83891_A_29525	NW_004516175.1	scaffold798	29525	CC	TT	TT	INTERGENIC		
SNP_83892_A_32223	NW_004516175.1	scaffold798	32223	GG	AA	AA	INTERGENIC		
SNP_83893_A_32244	NW_004516175.1	scaffold798	32244	TT	CC	CC	INTERGENIC		
SNP_83894_A_34876	NW_004516175.1	scaffold798	34876	TT	AA	AA	INTERGENIC		
SNP_83895_A_54240	NW_004516175.1	scaffold798	54240	CC	AA	AA	INTERGENIC		
SNP_83896_A_54245	NW_004516175.1	scaffold798	54245	TT	GG	GG	INTERGENIC		
SNP_83897_A_58270	NW_004516175.1	scaffold798	58270	AA	TT	TT	INTERGENIC		
SNP_83898_A_60497	NW_004516175.1	scaffold798	60497	CC	TT	TT	INTERGENIC		
SNP_83899_A_63967	NW_004516175.1	scaffold798	63967	AA	GG	GG	INTERGENIC		
SNP_83900_A_4345	NW_004516178.1	scaffold801	4345	GG	TT	TT	INTERGENIC		
SNP_83903_A_11479	NW_004516178.1	scaffold801	11479	TT	CC	CC	INTERGENIC		
SNP_83904_A_13169	NW_004516178.1	scaffold801	13169	CC	TT	TT	DRR	101496630	uncharacterized LOC101496630
SNP_83905_A_13247	NW_004516178.1	scaffold801	13247	TT	CC	CC	DRR	101496630	uncharacterized LOC101496630

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83906_A_24468	NW_004516178.1	scaffold801	24468	AA	CC	CC	INTERGENIC			
SNP_83907_A_32223	NW_004516178.1	scaffold801	32223	TT	CC	CC	INTERGENIC			
SNP_83908_A_32886	NW_004516178.1	scaffold801	32886	GG	TT	TT	INTERGENIC			
SNP_83909_A_33955	NW_004516178.1	scaffold801	33955	AA	TT	TT	INTERGENIC			
SNP_83910_A_34133	NW_004516178.1	scaffold801	34133	AA	GG	GG	INTERGENIC			
SNP_83911_A_38195	NW_004516178.1	scaffold801	38195	AA	GG	GG	INTERGENIC			
SNP_83912_A_38208	NW_004516178.1	scaffold801	38208	GG	AA	AA	INTERGENIC			
SNP_83913_A_38221	NW_004516178.1	scaffold801	38221	AA	GG	GG	INTERGENIC			
SNP_83914_A_38327	NW_004516178.1	scaffold801	38327	AA	TT	TT	INTERGENIC			
SNP_83915_A_38350	NW_004516178.1	scaffold801	38350	AA	GG	GG	INTERGENIC			
SNP_83916_A_38375	NW_004516178.1	scaffold801	38375	CC	TT	TT	INTERGENIC			
SNP_83918_A_45148	NW_004516178.1	scaffold801	45148	GG	AA	AA	DRR	101496949	uncharacterized LOC101496949	
SNP_83919_A_45839	NW_004516178.1	scaffold801	45839	CC	TT	TT	NON_SYNONYMOUS_CODING	101496949	uncharacterized LOC101496949	
SNP_83920_A_48071	NW_004516178.1	scaffold801	48071	TT	CC	CC	INTERGENIC			
SNP_83921_A_48157	NW_004516178.1	scaffold801	48157	AA	GG	GG	INTERGENIC			
SNP_83922_A_56461	NW_004516178.1	scaffold801	56461	TT	CC	CC	INTERGENIC			
SNP_83923_A_65333	NW_004516178.1	scaffold801	65333	AA	CC	CC	INTRON	101495103	serine carboxypeptidase-like	
SNP_83924_A_79210	NW_004516178.1	scaffold801	79210	CC	TT	TT	INTERGENIC			
SNP_83925_A_81847	NW_004516178.1	scaffold801	81847	TT	CC	CC	INTERGENIC			
SNP_83926_A_83757	NW_004516178.1	scaffold801	83757	CC	TT	TT	INTERGENIC			
SNP_83927_A_91759	NW_004516178.1	scaffold801	91759	TT	GG	GG	INTERGENIC			
SNP_83928_A_95496	NW_004516178.1	scaffold801	95496	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_83929_A_95875	NW_004516178.1	scaffold801	95875	TT	CC	CC	INTERGENIC		
SNP_83930_A_96046	NW_004516178.1	scaffold801	96046	TT	CC	CC	INTERGENIC		
SNP_83931_A_96885	NW_004516178.1	scaffold801	96885	TT	CC	CC	INTERGENIC		
SNP_83932_A_96968	NW_004516178.1	scaffold801	96968	AA	GG	GG	INTERGENIC		
SNP_83933_A_97019	NW_004516178.1	scaffold801	97019	CC	TT	TT	INTERGENIC		
SNP_83934_A_97116	NW_004516178.1	scaffold801	97116	TT	CC	CC	INTERGENIC		
SNP_83936_A_112051	NW_004516178.1	scaffold801	112051	GG	AA	AA	URR	101495433	uncharacterized LOC101495433
SNP_83937_A_112618	NW_004516178.1	scaffold801	112618	GG	AA	AA	URR	101495433	uncharacterized LOC101495433
SNP_83938_A_112906	NW_004516178.1	scaffold801	112906	CC	TT	TT	URR	101495433	uncharacterized LOC101495433
SNP_83940_A_124319	NW_004516178.1	scaffold801	124319	CC	TT	TT	INTERGENIC		
SNP_83941_A_139137	NW_004516178.1	scaffold801	139137	AA	GG	GG	INTERGENIC		
SNP_83942_A_151134	NW_004516178.1	scaffold801	151134	AA	GG	GG	INTERGENIC		
SNP_83944_A_157290	NW_004516178.1	scaffold801	157290	TT	CC	CC	URR	101495963	uncharacterized LOC101495963
SNP_83945_A_160504	NW_004516178.1	scaffold801	160504	GG	TT	TT	INTERGENIC		
SNP_83947_A_161464	NW_004516178.1	scaffold801	161464	TT	AA	AA	INTERGENIC		
SNP_83948_A_173991	NW_004516178.1	scaffold801	173991	TT	CC	CC	INTERGENIC		
SNP_83949_A_175139	NW_004516178.1	scaffold801	175139	TT	GG	GG	INTERGENIC		
SNP_83951_A_192081	NW_004516178.1	scaffold801	192081	GG	AA	AA	INTERGENIC		
SNP_83953_A_200756	NW_004516178.1	scaffold801	200756	CC	AA	AA	INTERGENIC		
SNP_83954_A_201926	NW_004516178.1	scaffold801	201926	CC	TT	TT	INTERGENIC		
SNP_83956_A_210805	NW_004516178.1	scaffold801	210805	CC	TT	TT	INTERGENIC		
SNP_83957_A_219764	NW_004516178.1	scaffold801	219764	CC	TT	TT	URR	101496298	protein cornichon homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83958_A_256706	NW_004516178.1	scaffold801	256706	CC	TT	TT	INTERGENIC			
SNP_83959_A_260855	NW_004516178.1	scaffold801	260855	CC	AA	AA	INTERGENIC			
SNP_83961_A_465	NW_004516179.1	scaffold802	465	CC	AA	AA	INTERGENIC			
SNP_83962_A_920	NW_004516179.1	scaffold802	920	TT	GG	GG	INTERGENIC			
SNP_83963_A_1081	NW_004516179.1	scaffold802	1081	GG	TT	TT	INTERGENIC			
SNP_83964_A_39039	NW_004516180.1	scaffold803	39039	CC	TT	TT	INTERGENIC			
SNP_83965_A_39080	NW_004516180.1	scaffold803	39080	CC	TT	TT	INTERGENIC			
SNP_83966_A_39253	NW_004516180.1	scaffold803	39253	CC	AA	AA	INTERGENIC			
SNP_83967_A_39257	NW_004516180.1	scaffold803	39257	TT	CC	CC	INTERGENIC			
SNP_83968_A_568	NW_004516181.1	scaffold806	568	CC	TT	TT	INTERGENIC			
SNP_83969_A_899	NW_004516181.1	scaffold806	899	AA	TT	TT	INTERGENIC			
SNP_83970_A_926	NW_004516181.1	scaffold806	926	AA	GG	GG	INTERGENIC			
SNP_83971_A_1204	NW_004516181.1	scaffold806	1204	CC	TT	TT	INTERGENIC			
SNP_83972_A_14638	NW_004516181.1	scaffold806	14638	TT	GG	GG	INTERGENIC			
SNP_83973_A_14687	NW_004516181.1	scaffold806	14687	CC	TT	TT	INTERGENIC			
SNP_83974_A_19771	NW_004516181.1	scaffold806	19771	TT	CC	CC	INTERGENIC			
SNP_83976_A_37513	NW_004516181.1	scaffold806	37513	AA	GG	GG	INTERGENIC			
SNP_83977_A_40982	NW_004516181.1	scaffold806	40982	CC	TT	TT	INTERGENIC			
SNP_83978_A_41103	NW_004516181.1	scaffold806	41103	AA	CC	CC	INTERGENIC			
SNP_83979_A_45394	NW_004516181.1	scaffold806	45394	TT	CC	CC	INTERGENIC			
SNP_83980_A_46473	NW_004516181.1	scaffold806	46473	CC	TT	TT	INTERGENIC			
SNP_83981_A_49116	NW_004516181.1	scaffold806	49116	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_83982_A_49222	NW_004516181.1	scaffold806	49222	GG	TT	TT	INTERGENIC			
SNP_83983_A_53997	NW_004516181.1	scaffold806	53997	GG	AA	AA	INTERGENIC			
SNP_83984_A_54989	NW_004516181.1	scaffold806	54989	GG	TT	TT	INTERGENIC			
SNP_83985_A_81506	NW_004516181.1	scaffold806	81506	AA	GG	GG	INTERGENIC			
SNP_83986_A_81519	NW_004516181.1	scaffold806	81519	TT	CC	CC	INTERGENIC			
SNP_83988_A_81718	NW_004516181.1	scaffold806	81718	CC	TT	TT	INTERGENIC			
SNP_83989_A_81790	NW_004516181.1	scaffold806	81790	TT	CC	CC	INTERGENIC			
SNP_83990_A_81968	NW_004516181.1	scaffold806	81968	TT	CC	CC	INTERGENIC			
SNP_83991_A_81974	NW_004516181.1	scaffold806	81974	CC	AA	AA	INTERGENIC			
SNP_83992_A_94527	NW_004516181.1	scaffold806	94527	CC	AA	AA	INTERGENIC			
SNP_83993_A_95455	NW_004516181.1	scaffold806	95455	CC	AA	AA	INTERGENIC			
SNP_83994_A_95470	NW_004516181.1	scaffold806	95470	AA	GG	GG	INTERGENIC			
SNP_83995_A_95538	NW_004516181.1	scaffold806	95538	CC	TT	TT	INTERGENIC			
SNP_83996_A_96463	NW_004516181.1	scaffold806	96463	GG	CC	CC	INTERGENIC			
SNP_83997_A_96513	NW_004516181.1	scaffold806	96513	GG	AA	AA	INTERGENIC			
SNP_83998_A_97398	NW_004516181.1	scaffold806	97398	CC	TT	TT	INTERGENIC			
SNP_83999_A_98770	NW_004516181.1	scaffold806	98770	AA	GG	GG	INTERGENIC			
SNP_84000_A_98773	NW_004516181.1	scaffold806	98773	AA	GG	GG	INTERGENIC			
SNP_84001_A_103416	NW_004516181.1	scaffold806	103416	CC	TT	TT	INTERGENIC			
SNP_84002_A_103448	NW_004516181.1	scaffold806	103448	AA	CC	CC	INTERGENIC			
SNP_84003_A_104112	NW_004516181.1	scaffold806	104112	AA	GG	GG	INTERGENIC			
SNP_84004_A_130852	NW_004516181.1	scaffold806	130852	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84005_A_131464	NW_004516181.1	scaffold806	131464	TT	CC	CC	INTERGENIC			
SNP_84006_A_131501	NW_004516181.1	scaffold806	131501	TT	GG	GG	INTERGENIC			
SNP_84007_A_131513	NW_004516181.1	scaffold806	131513	AA	GG	GG	INTERGENIC			
SNP_84008_A_131537	NW_004516181.1	scaffold806	131537	TT	AA	AA	INTERGENIC			
SNP_84009_A_131583	NW_004516181.1	scaffold806	131583	TT	GG	GG	INTERGENIC			
SNP_84010_A_131624	NW_004516181.1	scaffold806	131624	TT	CC	CC	INTERGENIC			
SNP_84011_A_131704	NW_004516181.1	scaffold806	131704	CC	TT	TT	INTERGENIC			
SNP_84012_A_131899	NW_004516181.1	scaffold806	131899	TT	CC	CC	INTERGENIC			
SNP_84013_A_131964	NW_004516181.1	scaffold806	131964	GG	TT	TT	INTERGENIC			
SNP_84014_A_131971	NW_004516181.1	scaffold806	131971	TT	CC	CC	INTERGENIC			
SNP_84015_A_131980	NW_004516181.1	scaffold806	131980	AA	CC	CC	INTERGENIC			
SNP_84016_A_133344	NW_004516181.1	scaffold806	133344	TT	CC	CC	INTERGENIC			
SNP_84017_A_133353	NW_004516181.1	scaffold806	133353	TT	CC	CC	INTERGENIC			
SNP_84018_A_133542	NW_004516181.1	scaffold806	133542	TT	CC	CC	INTERGENIC			
SNP_84019_A_133547	NW_004516181.1	scaffold806	133547	CC	TT	TT	INTERGENIC			
SNP_84020_A_133628	NW_004516181.1	scaffold806	133628	AA	GG	GG	INTERGENIC			
SNP_84021_A_133641	NW_004516181.1	scaffold806	133641	TT	AA	AA	INTERGENIC			
SNP_84022_A_133665	NW_004516181.1	scaffold806	133665	CC	TT	TT	INTERGENIC			
SNP_84023_A_133719	NW_004516181.1	scaffold806	133719	CC	TT	TT	INTERGENIC			
SNP_84024_A_3407	NW_004516182.1	scaffold808	3407	GG	AA	AA	INTERGENIC			
SNP_84025_A_4960	NW_004516182.1	scaffold808	4960	TT	GG	GG	INTERGENIC			
SNP_84026_A_4992	NW_004516182.1	scaffold808	4992	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84027_A_5010	NW_004516182.1	scaffold808	5010	GG	AA	AA	INTERGENIC		
SNP_84028_A_5019	NW_004516182.1	scaffold808	5019	CC	TT	TT	INTERGENIC		
SNP_84029_A_5085	NW_004516182.1	scaffold808	5085	GG	AA	AA	INTERGENIC		
SNP_84030_A_5109	NW_004516182.1	scaffold808	5109	AA	GG	GG	INTERGENIC		
SNP_84031_A_5139	NW_004516182.1	scaffold808	5139	CC	TT	TT	INTERGENIC		
SNP_84032_A_3774	NW_004516183.1	scaffold809	3774	TT	CC	CC	INTERGENIC		
SNP_84033_A_56785	NW_004516183.1	scaffold809	56785	AA	TT	TT	INTERGENIC		
SNP_84034_A_65711	NW_004516183.1	scaffold809	65711	AA	GG	GG	INTERGENIC		
SNP_84035_A_70705	NW_004516183.1	scaffold809	70705	TT	CC	CC	DRR	101498922	Unknown function
SNP_84036_A_89518	NW_004516183.1	scaffold809	89518	CC	TT	TT	URR	101499246	uncharacterized LOC101499246
SNP_84037_A_100100	NW_004516183.1	scaffold809	100100	CC	AA	AA	URR	101499565	DNA mismatch repair protein MSH1, mitochondrial-like
SNP_84038_A_100400	NW_004516183.1	scaffold809	100400	CC	AA	AA	URR	101499565	DNA mismatch repair protein MSH1, mitochondrial-like
SNP_84039_A_108498	NW_004516183.1	scaffold809	108498	CC	AA	AA	INTERGENIC		
SNP_84040_A_112349	NW_004516183.1	scaffold809	112349	GG	TT	TT	INTERGENIC		
SNP_84041_A_115075	NW_004516183.1	scaffold809	115075	TT	CC	CC	INTERGENIC		
SNP_84042_A_115165	NW_004516183.1	scaffold809	115165	TT	CC	CC	INTERGENIC		
SNP_84043_A_115391	NW_004516183.1	scaffold809	115391	TT	AA	AA	INTERGENIC		
SNP_84044_A_115422	NW_004516183.1	scaffold809	115422	AA	GG	GG	INTERGENIC		
SNP_84045_A_115479	NW_004516183.1	scaffold809	115479	AA	GG	GG	INTERGENIC		
SNP_84046_A_115916	NW_004516183.1	scaffold809	115916	CC	AA	AA	INTERGENIC		
SNP_84047_A_133028	NW_004516183.1	scaffold809	133028	AA	TT	TT	INTERGENIC		
SNP_84048_A_140710	NW_004516183.1	scaffold809	140710	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84049_A_143004	NW_004516183.1	scaffold809	143004	GG	TT	TT	INTERGENIC		
SNP_84050_A_148035	NW_004516183.1	scaffold809	148035	TT	CC	CC	INTERGENIC		
SNP_84052_A_86567	NW_004516184.1	scaffold811	86567	TT	CC	CC	INTRON	101501162	uncharacterized LOC101501162
SNP_84053_A_86579	NW_004516184.1	scaffold811	86579	AA	GG	GG	INTRON	101501162	uncharacterized LOC101501162
SNP_84054_A_86637	NW_004516184.1	scaffold811	86637	AA	GG	GG	INTRON	101501162	uncharacterized LOC101501162
SNP_84055_A_112271	NW_004516184.1	scaffold811	112271	CC	GG	GG	INTRON	101501162	uncharacterized LOC101501162
SNP_84056_A_112300	NW_004516184.1	scaffold811	112300	AA	GG	GG	INTRON	101501162	uncharacterized LOC101501162
SNP_84057_A_112320	NW_004516184.1	scaffold811	112320	TT	AA	AA	INTRON	101501162	uncharacterized LOC101501162
SNP_84058_A_112325	NW_004516184.1	scaffold811	112325	CC	AA	AA	INTRON	101501162	uncharacterized LOC101501162
SNP_84059_A_112356	NW_004516184.1	scaffold811	112356	GG	AA	AA	INTRON	101501162	uncharacterized LOC101501162
SNP_84060_A_112359	NW_004516184.1	scaffold811	112359	GG	AA	AA	INTRON	101501162	uncharacterized LOC101501162
SNP_84061_A_127678	NW_004516184.1	scaffold811	127678	GG	TT	TT	INTERGENIC		
SNP_84062_A_127755	NW_004516184.1	scaffold811	127755	CC	TT	TT	INTERGENIC		
SNP_84063_A_128021	NW_004516184.1	scaffold811	128021	TT	CC	CC	INTERGENIC		
SNP_84064_A_128046	NW_004516184.1	scaffold811	128046	GG	AA	AA	INTERGENIC		
SNP_84065_A_128069	NW_004516184.1	scaffold811	128069	TT	CC	CC	INTERGENIC		
SNP_84066_A_128119	NW_004516184.1	scaffold811	128119	TT	AA	AA	INTERGENIC		
SNP_84068_A_159648	NW_004516184.1	scaffold811	159648	AA	GG	GG	INTERGENIC		
SNP_84069_A_184285	NW_004516184.1	scaffold811	184285	CC	TT	TT	INTERGENIC		
SNP_84070_A_184402	NW_004516184.1	scaffold811	184402	GG	AA	AA	INTERGENIC		
SNP_84071_A_184682	NW_004516184.1	scaffold811	184682	AA	GG	GG	INTERGENIC		
SNP_84072_A_184698	NW_004516184.1	scaffold811	184698	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84073_A_184705	NW_004516184.1	scaffold811	184705	CC	TT	TT	INTERGENIC			
SNP_84074_A_184706	NW_004516184.1	scaffold811	184706	AA	TT	TT	INTERGENIC			
SNP_84075_A_184708	NW_004516184.1	scaffold811	184708	TT	CC	CC	INTERGENIC			
SNP_84076_A_195440	NW_004516184.1	scaffold811	195440	AA	TT	TT	INTERGENIC			
SNP_84077_A_203838	NW_004516184.1	scaffold811	203838	GG	CC	CC	INTERGENIC			
SNP_84078_A_228856	NW_004516184.1	scaffold811	228856	TT	AA	AA	INTERGENIC			
SNP_84079_A_228882	NW_004516184.1	scaffold811	228882	TT	GG	GG	INTERGENIC			
SNP_84082_A_245216	NW_004516184.1	scaffold811	245216	AA	GG	GG	INTERGENIC			
SNP_84083_A_251686	NW_004516184.1	scaffold811	251686	CC	GG	GG	INTERGENIC			
SNP_84084_A_251698	NW_004516184.1	scaffold811	251698	GG	TT	TT	INTERGENIC			
SNP_84085_A_251714	NW_004516184.1	scaffold811	251714	GG	AA	AA	INTERGENIC			
SNP_84086_A_258308	NW_004516184.1	scaffold811	258308	CC	AA	AA	INTERGENIC			
SNP_84087_A_276664	NW_004516184.1	scaffold811	276664	CC	AA	AA	INTERGENIC			
SNP_84088_A_279069	NW_004516184.1	scaffold811	279069	CC	AA	AA	INTERGENIC			
SNP_84089_A_286812	NW_004516184.1	scaffold811	286812	TT	CC	CC	INTERGENIC			
SNP_84090_A_294996	NW_004516184.1	scaffold811	294996	TT	GG	GG	INTERGENIC			
SNP_84091_A_314928	NW_004516184.1	scaffold811	314928	GG	TT	TT	INTERGENIC			
SNP_84092_A_45224	NW_004516185.1	scaffold812	45224	CC	TT	TT	INTERGENIC			
SNP_84093_A_52478	NW_004516185.1	scaffold812	52478	AA	GG	GG	INTERGENIC			
SNP_84094_A_61452	NW_004516185.1	scaffold812	61452	CC	TT	TT	INTERGENIC			
SNP_84095_A_66503	NW_004516185.1	scaffold812	66503	AA	GG	GG	INTERGENIC			
SNP_84096_A_82117	NW_004516185.1	scaffold812	82117	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84097_A_82414	NW_004516185.1	scaffold812	82414	TT	GG	GG	INTERGENIC		
SNP_84098_A_92159	NW_004516185.1	scaffold812	92159	AA	TT	TT	INTERGENIC		
SNP_84099_A_95432	NW_004516185.1	scaffold812	95432	CC	AA	AA	INTERGENIC		
SNP_84100_A_95447	NW_004516185.1	scaffold812	95447	TT	CC	CC	INTERGENIC		
SNP_84101_A_105308	NW_004516185.1	scaffold812	105308	CC	TT	TT	INTERGENIC		
SNP_84102_A_106741	NW_004516185.1	scaffold812	106741	AA	GG	GG	INTERGENIC		
SNP_84103_A_106759	NW_004516185.1	scaffold812	106759	TT	GG	GG	INTERGENIC		
SNP_84104_A_106784	NW_004516185.1	scaffold812	106784	AA	TT	TT	INTERGENIC		
SNP_84105_A_106866	NW_004516185.1	scaffold812	106866	GG	TT	TT	INTERGENIC		
SNP_84106_A_106872	NW_004516185.1	scaffold812	106872	TT	GG	GG	INTERGENIC		
SNP_84107_A_187425	NW_004516185.1	scaffold812	187425	GG	AA	AA	INTERGENIC		
SNP_84108_A_191736	NW_004516185.1	scaffold812	191736	AA	GG	GG	INTRON	101504581	uncharacterized LOC101504581
SNP_84109_A_202462	NW_004516185.1	scaffold812	202462	AA	GG	GG	URR	101504581	uncharacterized LOC101504581
SNP_84110_A_207032	NW_004516185.1	scaffold812	207032	GG	AA	AA	INTRON	101508327	Unknown function
SNP_84111_A_211242	NW_004516185.1	scaffold812	211242	CC	AA	AA	INTRON	101508327	Unknown function
SNP_84112_A_212099	NW_004516185.1	scaffold812	212099	CC	TT	TT	URR	101508327	Unknown function
SNP_84113_A_212124	NW_004516185.1	scaffold812	212124	CC	TT	TT	URR	101508327	Unknown function
SNP_84114_A_215173	NW_004516185.1	scaffold812	215173	GG	AA	AA	INTERGENIC		
SNP_84117_A_216868	NW_004516185.1	scaffold812	216868	CC	TT	TT	INTERGENIC		
SNP_84118_A_228433	NW_004516185.1	scaffold812	228433	TT	AA	AA	INTERGENIC		
SNP_84120_A_229249	NW_004516185.1	scaffold812	229249	GG	AA	AA	INTERGENIC		
SNP_84122_A_257430	NW_004516185.1	scaffold812	257430	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84123_A_259722	NW_004516185.1	scaffold812	259722	TT	CC	CC	INTERGENIC		
SNP_84124_A_263260	NW_004516185.1	scaffold812	263260	AA	GG	GG	INTERGENIC		
SNP_84125_A_265270	NW_004516185.1	scaffold812	265270	AA	GG	GG	INTERGENIC		
SNP_84126_A_268658	NW_004516185.1	scaffold812	268658	CC	TT	TT	INTERGENIC		
SNP_84127_A_275842	NW_004516185.1	scaffold812	275842	AA	GG	GG	INTERGENIC		
SNP_84128_A_279210	NW_004516185.1	scaffold812	279210	AA	GG	GG	DRR	101505855	geraniol 8-hydroxylase-like
SNP_84129_A_283601	NW_004516185.1	scaffold812	283601	GG	TT	TT	URR	101505855	geraniol 8-hydroxylase-like
SNP_84131_A_286619	NW_004516185.1	scaffold812	286619	AA	TT	TT	INTERGENIC		
SNP_84132_A_286644	NW_004516185.1	scaffold812	286644	AA	TT	TT	INTERGENIC		
SNP_84133_A_286648	NW_004516185.1	scaffold812	286648	AA	TT	TT	INTERGENIC		
SNP_84134_A_297465	NW_004516185.1	scaffold812	297465	GG	AA	AA	INTERGENIC		
SNP_84135_A_304425	NW_004516185.1	scaffold812	304425	CC	GG	GG	INTERGENIC		
SNP_84136_A_311472	NW_004516185.1	scaffold812	311472	TT	CC	CC	INTERGENIC		
SNP_84138_A_320337	NW_004516185.1	scaffold812	320337	TT	GG	GG	INTERGENIC		
SNP_84141_A_354063	NW_004516185.1	scaffold812	354063	GG	AA	AA	INTERGENIC		
SNP_84143_A_358497	NW_004516185.1	scaffold812	358497	TT	CC	CC	INTERGENIC		
SNP_84144_A_372140	NW_004516185.1	scaffold812	372140	GG	AA	AA	INTERGENIC		
SNP_84145_A_374054	NW_004516185.1	scaffold812	374054	CC	TT	TT	INTERGENIC		
SNP_84146_A_378719	NW_004516185.1	scaffold812	378719	GG	TT	TT	INTERGENIC		
SNP_84148_A_403114	NW_004516185.1	scaffold812	403114	TT	CC	CC	URR	101506175	nucleolar protein 10
SNP_84149_A_403124	NW_004516185.1	scaffold812	403124	GG	AA	AA	URR	101506175	nucleolar protein 10
SNP_84151_A_416529	NW_004516185.1	scaffold812	416529	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84152_A_416921	NW_004516185.1	scaffold812	416921	TT	AA	AA	INTERGENIC			
SNP_84153_A_428168	NW_004516185.1	scaffold812	428168	CC	AA	AA	INTERGENIC			
SNP_84154_A_446072	NW_004516185.1	scaffold812	446072	AA	GG	GG	INTERGENIC			
SNP_84155_A_453621	NW_004516185.1	scaffold812	453621	AA	GG	GG	INTERGENIC			
SNP_84156_A_464553	NW_004516185.1	scaffold812	464553	GG	AA	AA	INTERGENIC			
SNP_84157_A_470770	NW_004516185.1	scaffold812	470770	AA	GG	GG	INTERGENIC			
SNP_84158_A_484496	NW_004516185.1	scaffold812	484496	GG	AA	AA	INTERGENIC			
SNP_84159_A_486981	NW_004516185.1	scaffold812	486981	GG	CC	CC	INTERGENIC			
SNP_84160_A_487058	NW_004516185.1	scaffold812	487058	TT	CC	CC	INTERGENIC			
SNP_84161_A_487068	NW_004516185.1	scaffold812	487068	TT	CC	CC	INTERGENIC			
SNP_84162_A_487152	NW_004516185.1	scaffold812	487152	AA	TT	TT	INTERGENIC			
SNP_84164_A_487354	NW_004516185.1	scaffold812	487354	AA	GG	GG	INTERGENIC			
SNP_84165_A_487375	NW_004516185.1	scaffold812	487375	TT	AA	AA	INTERGENIC			
SNP_84166_A_487403	NW_004516185.1	scaffold812	487403	GG	AA	AA	INTERGENIC			
SNP_84167_A_515370	NW_004516185.1	scaffold812	515370	AA	GG	GG	INTRON	101510574	Unknown function	
SNP_84168_A_525899	NW_004516185.1	scaffold812	525899	CC	TT	TT	DRR	101510898	Unknown function	
SNP_84169_A_525952	NW_004516185.1	scaffold812	525952	TT	AA	AA	DRR	101510898	Unknown function	
SNP_84170_A_525993	NW_004516185.1	scaffold812	525993	CC	TT	TT	DRR	101510898	Unknown function	
SNP_84171_A_526012	NW_004516185.1	scaffold812	526012	TT	CC	CC	DRR	101510898	Unknown function	
SNP_84173_A_526260	NW_004516185.1	scaffold812	526260	AA	TT	TT	DRR	101510898	Unknown function	
SNP_84174_A_530388	NW_004516185.1	scaffold812	530388	AA	CC	CC	INTERGENIC			
SNP_84175_A_530737	NW_004516185.1	scaffold812	530737	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84176_A_535588	NW_004516185.1	scaffold812	535588	TT	GG	GG	URR	101506505	uncharacterized LOC101506505
SNP_84177_A_548873	NW_004516185.1	scaffold812	548873	CC	TT	TT	INTERGENIC		
SNP_84178_A_548963	NW_004516185.1	scaffold812	548963	GG	TT	TT	INTERGENIC		
SNP_84179_A_549740	NW_004516185.1	scaffold812	549740	AA	GG	GG	INTERGENIC		
SNP_84180_A_549789	NW_004516185.1	scaffold812	549789	AA	TT	TT	INTERGENIC		
SNP_84181_A_552402	NW_004516185.1	scaffold812	552402	TT	CC	CC	INTERGENIC		
SNP_84182_A_557487	NW_004516185.1	scaffold812	557487	TT	AA	AA	INTERGENIC		
SNP_84183_A_3075	NW_004516186.1	scaffold814	3075	TT	GG	GG	INTERGENIC		
SNP_84184_A_3321	NW_004516186.1	scaffold814	3321	TT	AA	AA	INTERGENIC		
SNP_84185_A_3510	NW_004516186.1	scaffold814	3510	GG	TT	TT	INTERGENIC		
SNP_84186_A_28721	NW_004516186.1	scaffold814	28721	CC	TT	TT	INTERGENIC		
SNP_84187_A_35602	NW_004516186.1	scaffold814	35602	CC	TT	TT	INTERGENIC		
SNP_84188_A_38503	NW_004516186.1	scaffold814	38503	CC	GG	GG	INTERGENIC		
SNP_84189_A_39853	NW_004516186.1	scaffold814	39853	TT	CC	CC	INTERGENIC		
SNP_84190_A_39946	NW_004516186.1	scaffold814	39946	TT	CC	CC	INTERGENIC		
SNP_84191_A_40146	NW_004516186.1	scaffold814	40146	CC	TT	TT	INTERGENIC		
SNP_84192_A_40181	NW_004516186.1	scaffold814	40181	CC	TT	TT	INTERGENIC		
SNP_84193_A_40204	NW_004516186.1	scaffold814	40204	GG	AA	AA	INTERGENIC		
SNP_84194_A_41116	NW_004516186.1	scaffold814	41116	TT	CC	CC	INTERGENIC		
SNP_84195_A_41240	NW_004516186.1	scaffold814	41240	AA	CC	CC	INTERGENIC		
SNP_84196_A_41241	NW_004516186.1	scaffold814	41241	GG	CC	CC	INTERGENIC		
SNP_84197_A_41290	NW_004516186.1	scaffold814	41290	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84198_A_41351	NW_004516186.1	scaffold814	41351	GG	AA	AA	INTERGENIC			
SNP_84199_A_41594	NW_004516186.1	scaffold814	41594	AA	TT	TT	INTERGENIC			
SNP_84200_A_42425	NW_004516186.1	scaffold814	42425	TT	CC	CC	INTERGENIC			
SNP_84201_A_42719	NW_004516186.1	scaffold814	42719	CC	TT	TT	INTERGENIC			
SNP_84202_A_46422	NW_004516186.1	scaffold814	46422	TT	GG	GG	INTERGENIC			
SNP_84203_A_46718	NW_004516186.1	scaffold814	46718	GG	CC	CC	INTERGENIC			
SNP_84204_A_46790	NW_004516186.1	scaffold814	46790	AA	TT	TT	INTERGENIC			
SNP_84205_A_4710	NW_004516188.1	scaffold817	4710	TT	CC	CC	INTERGENIC			
SNP_84206_A_4711	NW_004516188.1	scaffold817	4711	GG	AA	AA	INTERGENIC			
SNP_84207_A_4736	NW_004516188.1	scaffold817	4736	AA	GG	GG	INTERGENIC			
SNP_84208_A_5351	NW_004516188.1	scaffold817	5351	CC	GG	GG	INTERGENIC			
SNP_84209_A_6927	NW_004516188.1	scaffold817	6927	CC	TT	TT	INTERGENIC			
SNP_84210_A_6962	NW_004516188.1	scaffold817	6962	GG	AA	AA	INTERGENIC			
SNP_84211_A_13533	NW_004516188.1	scaffold817	13533	AA	GG	GG	INTERGENIC			
SNP_84212_A_13546	NW_004516188.1	scaffold817	13546	TT	CC	CC	INTERGENIC			
SNP_84213_A_626	NW_004516190.1	scaffold819	626	TT	AA	AA	INTERGENIC			
SNP_84214_A_13626	NW_004516191.1	scaffold820	13626	TT	CC	CC	INTERGENIC			
SNP_84216_A_15736	NW_004516191.1	scaffold820	15736	AA	TT	TT	INTERGENIC			
SNP_84217_A_15984	NW_004516191.1	scaffold820	15984	TT	CC	CC	INTERGENIC			
SNP_84218_A_16377	NW_004516191.1	scaffold820	16377	GG	AA	AA	INTERGENIC			
SNP_84219_A_16386	NW_004516191.1	scaffold820	16386	AA	TT	TT	INTERGENIC			
SNP_84220_A_16398	NW_004516191.1	scaffold820	16398	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84221_A_16405	NW_004516191.1	scaffold820	16405	CC	GG	GG	INTERGENIC			
SNP_84222_A_16430	NW_004516191.1	scaffold820	16430	TT	GG	GG	INTERGENIC			
SNP_84223_A_22105	NW_004516191.1	scaffold820	22105	GG	AA	AA	INTERGENIC			
SNP_84224_A_25599	NW_004516191.1	scaffold820	25599	CC	TT	TT	INTERGENIC			
SNP_84225_A_30402	NW_004516191.1	scaffold820	30402	CC	GG	GG	INTERGENIC			
SNP_84226_A_30417	NW_004516191.1	scaffold820	30417	GG	AA	AA	INTERGENIC			
SNP_84227_A_31875	NW_004516191.1	scaffold820	31875	GG	AA	AA	INTERGENIC			
SNP_84228_A_37445	NW_004516191.1	scaffold820	37445	AA	CC	CC	INTERGENIC			
SNP_84229_A_37486	NW_004516191.1	scaffold820	37486	TT	CC	CC	INTERGENIC			
SNP_84230_A_37490	NW_004516191.1	scaffold820	37490	GG	AA	AA	INTERGENIC			
SNP_84231_A_37494	NW_004516191.1	scaffold820	37494	TT	AA	AA	INTERGENIC			
SNP_84232_A_39739	NW_004516191.1	scaffold820	39739	TT	CC	CC	INTERGENIC			
SNP_84233_A_16034	NW_004516194.1	scaffold823	16034	AA	TT	TT	INTERGENIC			
SNP_84234_A_22758	NW_004516194.1	scaffold823	22758	TT	GG	GG	INTERGENIC			
SNP_84235_A_24535	NW_004516194.1	scaffold823	24535	CC	GG	GG	INTERGENIC			
SNP_84236_A_24547	NW_004516194.1	scaffold823	24547	AA	CC	CC	INTERGENIC			
SNP_84237_A_24618	NW_004516194.1	scaffold823	24618	AA	GG	GG	INTERGENIC			
SNP_84238_A_24744	NW_004516194.1	scaffold823	24744	TT	AA	AA	INTERGENIC			
SNP_84239_A_24746	NW_004516194.1	scaffold823	24746	AA	GG	GG	INTERGENIC			
SNP_84240_A_28092	NW_004516194.1	scaffold823	28092	CC	TT	TT	INTERGENIC			
SNP_84241_A_28296	NW_004516194.1	scaffold823	28296	TT	CC	CC	INTERGENIC			
SNP_84242_A_28344	NW_004516194.1	scaffold823	28344	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84243_A_28358	NW_004516194.1	scaffold823	28358	TT	CC	CC	INTERGENIC			
SNP_84244_A_28360	NW_004516194.1	scaffold823	28360	CC	TT	TT	INTERGENIC			
SNP_84245_A_28386	NW_004516194.1	scaffold823	28386	CC	TT	TT	INTERGENIC			
SNP_84246_A_28439	NW_004516194.1	scaffold823	28439	CC	AA	AA	INTERGENIC			
SNP_84247_A_28464	NW_004516194.1	scaffold823	28464	CC	AA	AA	INTERGENIC			
SNP_84248_A_28507	NW_004516194.1	scaffold823	28507	TT	CC	CC	INTERGENIC			
SNP_84249_A_28509	NW_004516194.1	scaffold823	28509	AA	GG	GG	INTERGENIC			
SNP_84250_A_28514	NW_004516194.1	scaffold823	28514	TT	CC	CC	INTERGENIC			
SNP_84251_A_28661	NW_004516194.1	scaffold823	28661	TT	GG	GG	INTERGENIC			
SNP_84252_A_28682	NW_004516194.1	scaffold823	28682	CC	AA	AA	INTERGENIC			
SNP_84253_A_28717	NW_004516194.1	scaffold823	28717	GG	TT	TT	INTERGENIC			
SNP_84254_A_28769	NW_004516194.1	scaffold823	28769	GG	CC	CC	INTERGENIC			
SNP_84255_A_47910	NW_004516194.1	scaffold823	47910	TT	CC	CC	INTERGENIC			
SNP_84256_A_48128	NW_004516194.1	scaffold823	48128	TT	CC	CC	INTERGENIC			
SNP_84257_A_48156	NW_004516194.1	scaffold823	48156	TT	CC	CC	INTERGENIC			
SNP_84258_A_48208	NW_004516194.1	scaffold823	48208	AA	TT	TT	INTERGENIC			
SNP_84259_A_48216	NW_004516194.1	scaffold823	48216	AA	CC	CC	INTERGENIC			
SNP_84260_A_48497	NW_004516194.1	scaffold823	48497	CC	TT	TT	INTERGENIC			
SNP_84261_A_49731	NW_004516194.1	scaffold823	49731	CC	TT	TT	INTERGENIC			
SNP_84262_A_49958	NW_004516194.1	scaffold823	49958	TT	CC	CC	INTERGENIC			
SNP_84263_A_49976	NW_004516194.1	scaffold823	49976	AA	GG	GG	INTERGENIC			
SNP_84264_A_49984	NW_004516194.1	scaffold823	49984	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84266_A_53989	NW_004516194.1	scaffold823	53989	TT	CC	CC	INTERGENIC			
SNP_84267_A_58544	NW_004516194.1	scaffold823	58544	CC	TT	TT	INTERGENIC			
SNP_84268_A_60166	NW_004516194.1	scaffold823	60166	TT	CC	CC	INTERGENIC			
SNP_84269_A_60461	NW_004516194.1	scaffold823	60461	TT	CC	CC	INTERGENIC			
SNP_84270_A_60481	NW_004516194.1	scaffold823	60481	TT	CC	CC	INTERGENIC			
SNP_84271_A_60509	NW_004516194.1	scaffold823	60509	TT	AA	AA	INTERGENIC			
SNP_84272_A_61969	NW_004516194.1	scaffold823	61969	CC	TT	TT	INTERGENIC			
SNP_84273_A_62011	NW_004516194.1	scaffold823	62011	TT	AA	AA	INTERGENIC			
SNP_84274_A_62073	NW_004516194.1	scaffold823	62073	AA	GG	GG	INTERGENIC			
SNP_84275_A_62138	NW_004516194.1	scaffold823	62138	CC	TT	TT	INTERGENIC			
SNP_84276_A_62412	NW_004516194.1	scaffold823	62412	CC	TT	TT	INTERGENIC			
SNP_84277_A_62675	NW_004516194.1	scaffold823	62675	CC	TT	TT	INTERGENIC			
SNP_84278_A_62839	NW_004516194.1	scaffold823	62839	AA	GG	GG	INTERGENIC			
SNP_84279_A_62933	NW_004516194.1	scaffold823	62933	TT	CC	CC	INTERGENIC			
SNP_84280_A_63126	NW_004516194.1	scaffold823	63126	TT	CC	CC	INTERGENIC			
SNP_84281_A_63320	NW_004516194.1	scaffold823	63320	CC	GG	GG	INTERGENIC			
SNP_84282_A_63541	NW_004516194.1	scaffold823	63541	TT	AA	AA	INTERGENIC			
SNP_84283_A_63544	NW_004516194.1	scaffold823	63544	GG	AA	AA	INTERGENIC			
SNP_84284_A_63740	NW_004516194.1	scaffold823	63740	TT	CC	CC	INTERGENIC			
SNP_84286_A_6345	NW_004516195.1	scaffold824	6345	CC	AA	AA	INTERGENIC			
SNP_84287_A_7112	NW_004516195.1	scaffold824	7112	AA	TT	TT	INTERGENIC			
SNP_84288_A_7219	NW_004516195.1	scaffold824	7219	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84289_A_7224	NW_004516195.1	scaffold824	7224	GG	TT	TT	INTERGENIC			
SNP_84290_A_7281	NW_004516195.1	scaffold824	7281	AA	TT	TT	INTERGENIC			
SNP_84291_A_7289	NW_004516195.1	scaffold824	7289	GG	TT	TT	INTERGENIC			
SNP_84292_A_7316	NW_004516195.1	scaffold824	7316	GG	TT	TT	INTERGENIC			
SNP_84293_A_7460	NW_004516195.1	scaffold824	7460	CC	TT	TT	INTERGENIC			
SNP_84294_A_7652	NW_004516195.1	scaffold824	7652	TT	CC	CC	INTERGENIC			
SNP_84295_A_7659	NW_004516195.1	scaffold824	7659	TT	CC	CC	INTERGENIC			
SNP_84296_A_11781	NW_004516195.1	scaffold824	11781	CC	TT	TT	INTERGENIC			
SNP_84297_A_11788	NW_004516195.1	scaffold824	11788	GG	AA	AA	INTERGENIC			
SNP_84298_A_11822	NW_004516195.1	scaffold824	11822	AA	TT	TT	INTERGENIC			
SNP_84299_A_12002	NW_004516195.1	scaffold824	12002	CC	TT	TT	INTERGENIC			
SNP_84300_A_12013	NW_004516195.1	scaffold824	12013	AA	GG	GG	INTERGENIC			
SNP_84301_A_20632	NW_004516195.1	scaffold824	20632	AA	TT	TT	INTERGENIC			
SNP_84302_A_20920	NW_004516195.1	scaffold824	20920	AA	TT	TT	INTERGENIC			
SNP_84303_A_21226	NW_004516195.1	scaffold824	21226	CC	TT	TT	INTERGENIC			
SNP_84304_A_21302	NW_004516195.1	scaffold824	21302	TT	GG	GG	INTERGENIC			
SNP_84306_A_21351	NW_004516195.1	scaffold824	21351	TT	CC	CC	INTERGENIC			
SNP_84307_A_4464	NW_004516196.1	scaffold825	4464	AA	GG	GG	INTERGENIC			
SNP_84308_A_5147	NW_004516198.1	scaffold829	5147	CC	TT	TT	INTERGENIC			
SNP_84309_A_5381	NW_004516198.1	scaffold829	5381	GG	AA	AA	INTERGENIC			
SNP_84310_A_8049	NW_004516198.1	scaffold829	8049	GG	AA	AA	INTERGENIC			
SNP_84311_A_8357	NW_004516198.1	scaffold829	8357	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84312_A_8378	NW_004516198.1	scaffold829	8378	GG	AA	AA	INTERGENIC			
SNP_84313_A_8409	NW_004516198.1	scaffold829	8409	CC	TT	TT	INTERGENIC			
SNP_84314_A_8671	NW_004516198.1	scaffold829	8671	TT	CC	CC	INTERGENIC			
SNP_84315_A_8680	NW_004516198.1	scaffold829	8680	TT	CC	CC	INTERGENIC			
SNP_84316_A_8749	NW_004516198.1	scaffold829	8749	GG	AA	AA	INTERGENIC			
SNP_84317_A_8783	NW_004516198.1	scaffold829	8783	CC	TT	TT	INTERGENIC			
SNP_84318_A_8845	NW_004516198.1	scaffold829	8845	CC	TT	TT	INTERGENIC			
SNP_84319_A_8935	NW_004516198.1	scaffold829	8935	GG	CC	CC	INTERGENIC			
SNP_84320_A_8976	NW_004516198.1	scaffold829	8976	AA	CC	CC	INTERGENIC			
SNP_84321_A_9026	NW_004516198.1	scaffold829	9026	AA	CC	CC	INTERGENIC			
SNP_84322_A_9041	NW_004516198.1	scaffold829	9041	AA	GG	GG	INTERGENIC			
SNP_84323_A_9045	NW_004516198.1	scaffold829	9045	CC	GG	GG	INTERGENIC			
SNP_84324_A_9145	NW_004516198.1	scaffold829	9145	GG	CC	CC	INTERGENIC			
SNP_84325_A_9148	NW_004516198.1	scaffold829	9148	AA	GG	GG	INTERGENIC			
SNP_84326_A_9151	NW_004516198.1	scaffold829	9151	TT	AA	AA	INTERGENIC			
SNP_84327_A_9256	NW_004516198.1	scaffold829	9256	TT	CC	CC	INTERGENIC			
SNP_84328_A_9263	NW_004516198.1	scaffold829	9263	AA	GG	GG	INTERGENIC			
SNP_84329_A_9287	NW_004516198.1	scaffold829	9287	AA	GG	GG	INTERGENIC			
SNP_84330_A_9850	NW_004516198.1	scaffold829	9850	CC	TT	TT	INTERGENIC			
SNP_84331_A_10773	NW_004516198.1	scaffold829	10773	TT	GG	GG	INTERGENIC			
SNP_84332_A_10779	NW_004516198.1	scaffold829	10779	TT	GG	GG	INTERGENIC			
SNP_84333_A_10818	NW_004516198.1	scaffold829	10818	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84334_A_10904	NW_004516198.1	scaffold829	10904	TT	AA	AA	INTERGENIC			
SNP_84336_A_11096	NW_004516198.1	scaffold829	11096	GG	AA	AA	INTERGENIC			
SNP_84337_A_11253	NW_004516198.1	scaffold829	11253	TT	GG	GG	INTERGENIC			
SNP_84338_A_12295	NW_004516198.1	scaffold829	12295	TT	AA	AA	INTERGENIC			
SNP_84340_A_12529	NW_004516198.1	scaffold829	12529	TT	GG	GG	INTERGENIC			
SNP_84341_A_12630	NW_004516198.1	scaffold829	12630	TT	AA	AA	INTERGENIC			
SNP_84342_A_12702	NW_004516198.1	scaffold829	12702	CC	TT	TT	INTERGENIC			
SNP_84343_A_16417	NW_004516198.1	scaffold829	16417	TT	CC	CC	INTERGENIC			
SNP_84344_A_23932	NW_004516199.1	scaffold831	23932	CC	TT	TT	INTERGENIC			
SNP_84345_A_35005	NW_004516199.1	scaffold831	35005	TT	AA	AA	INTERGENIC			
SNP_84346_A_43625	NW_004516199.1	scaffold831	43625	AA	TT	TT	INTERGENIC			
SNP_84347_A_43912	NW_004516199.1	scaffold831	43912	TT	GG	GG	INTERGENIC			
SNP_84348_A_49765	NW_004516199.1	scaffold831	49765	CC	AA	AA	INTERGENIC			
SNP_84350_A_56896	NW_004516199.1	scaffold831	56896	TT	AA	AA	INTERGENIC			
SNP_84351_A_56906	NW_004516199.1	scaffold831	56906	CC	AA	AA	INTERGENIC			
SNP_84352_A_56920	NW_004516199.1	scaffold831	56920	CC	GG	GG	INTERGENIC			
SNP_84353_A_58936	NW_004516199.1	scaffold831	58936	TT	GG	GG	INTERGENIC			
SNP_84354_A_59314	NW_004516199.1	scaffold831	59314	AA	GG	GG	INTERGENIC			
SNP_84355_A_59325	NW_004516199.1	scaffold831	59325	CC	GG	GG	INTERGENIC			
SNP_84356_A_61854	NW_004516199.1	scaffold831	61854	TT	GG	GG	INTERGENIC			
SNP_84357_A_61880	NW_004516199.1	scaffold831	61880	AA	GG	GG	INTERGENIC			
SNP_84358_A_86638	NW_004516199.1	scaffold831	86638	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84359_A_826	NW_004516200.1	scaffold833	826	CC	TT	TT	INTERGENIC			
SNP_84360_A_14082	NW_004516200.1	scaffold833	14082	AA	GG	GG	INTERGENIC			
SNP_84361_A_17684	NW_004516200.1	scaffold833	17684	AA	GG	GG	INTERGENIC			
SNP_84362_A_17976	NW_004516200.1	scaffold833	17976	TT	CC	CC	INTERGENIC			
SNP_84363_A_18071	NW_004516200.1	scaffold833	18071	AA	GG	GG	INTERGENIC			
SNP_84364_A_18452	NW_004516200.1	scaffold833	18452	AA	CC	CC	INTERGENIC			
SNP_84365_A_546	NW_004516205.1	scaffold840	546	GG	AA	AA	INTERGENIC			
SNP_84366_A_548	NW_004516205.1	scaffold840	548	TT	GG	GG	INTERGENIC			
SNP_84367_A_64	NW_004516206.1	scaffold841	64	AA	GG	GG	INTERGENIC			
SNP_84368_A_65	NW_004516206.1	scaffold841	65	CC	TT	TT	INTERGENIC			
SNP_84369_A_140	NW_004516206.1	scaffold841	140	TT	GG	GG	INTERGENIC			
SNP_84370_A_200	NW_004516206.1	scaffold841	200	TT	CC	CC	INTERGENIC			
SNP_84371_A_209	NW_004516206.1	scaffold841	209	AA	TT	TT	INTERGENIC			
SNP_84373_A_351	NW_004516206.1	scaffold841	351	AA	GG	GG	INTERGENIC			
SNP_84374_A_428	NW_004516206.1	scaffold841	428	GG	TT	TT	INTERGENIC			
SNP_84376_A_541	NW_004516206.1	scaffold841	541	CC	TT	TT	INTERGENIC			
SNP_84377_A_576	NW_004516206.1	scaffold841	576	TT	AA	AA	INTERGENIC			
SNP_84378_A_578	NW_004516206.1	scaffold841	578	CC	AA	AA	INTERGENIC			
SNP_84379_A_581	NW_004516206.1	scaffold841	581	GG	AA	AA	INTERGENIC			
SNP_84380_A_871	NW_004516206.1	scaffold841	871	GG	AA	AA	INTERGENIC			
SNP_84381_A_2323	NW_004516206.1	scaffold841	2323	AA	TT	TT	INTERGENIC			
SNP_84382_A_2709	NW_004516206.1	scaffold841	2709	GG	AA	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84383_A_2860	NW_004516206.1	scaffold841	2860	CC	TT	TT	INTERGENIC			
SNP_84384_A_3123	NW_004516206.1	scaffold841	3123	GG	AA	AA	INTERGENIC			
SNP_84385_A_3365	NW_004516206.1	scaffold841	3365	GG	AA	AA	INTERGENIC			
SNP_84386_A_3498	NW_004516206.1	scaffold841	3498	TT	CC	CC	INTERGENIC			
SNP_84387_A_36185	NW_004516206.1	scaffold841	36185	TT	CC	CC	INTERGENIC			
SNP_84388_A_37647	NW_004516206.1	scaffold841	37647	CC	GG	GG	INTERGENIC			
SNP_84389_A_3678	NW_004516207.1	scaffold842	3678	GG	CC	CC	INTERGENIC			
SNP_84390_A_4026	NW_004516207.1	scaffold842	4026	GG	AA	AA	INTERGENIC			
SNP_84391_A_7274	NW_004516207.1	scaffold842	7274	TT	AA	AA	INTERGENIC			
SNP_84392_A_20345	NW_004516207.1	scaffold842	20345	TT	AA	AA	INTERGENIC			
SNP_84393_A_20347	NW_004516207.1	scaffold842	20347	AA	GG	GG	INTERGENIC			
SNP_84394_A_20356	NW_004516207.1	scaffold842	20356	TT	GG	GG	INTERGENIC			
SNP_84395_A_20371	NW_004516207.1	scaffold842	20371	AA	GG	GG	INTERGENIC			
SNP_84396_A_20546	NW_004516207.1	scaffold842	20546	GG	TT	TT	INTERGENIC			
SNP_84397_A_20547	NW_004516207.1	scaffold842	20547	GG	AA	AA	INTERGENIC			
SNP_84398_A_20559	NW_004516207.1	scaffold842	20559	GG	CC	CC	INTERGENIC			
SNP_84399_A_20584	NW_004516207.1	scaffold842	20584	GG	CC	CC	INTERGENIC			
SNP_84401_A_20664	NW_004516207.1	scaffold842	20664	GG	TT	TT	INTERGENIC			
SNP_84402_A_20736	NW_004516207.1	scaffold842	20736	AA	GG	GG	INTERGENIC			
SNP_84403_A_20755	NW_004516207.1	scaffold842	20755	TT	GG	GG	INTERGENIC			
SNP_84404_A_20845	NW_004516207.1	scaffold842	20845	GG	AA	AA	INTERGENIC			
SNP_84405_A_29925	NW_004516207.1	scaffold842	29925	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84407_A_34513	NW_004516207.1	scaffold842	34513	GG	AA	AA	INTERGENIC			
SNP_84408_A_39509	NW_004516207.1	scaffold842	39509	AA	CC	CC	INTERGENIC			
SNP_84409_A_39862	NW_004516207.1	scaffold842	39862	TT	CC	CC	INTERGENIC			
SNP_84410_A_1747	NW_004516208.1	scaffold843	1747	CC	TT	TT	INTERGENIC			
SNP_84411_A_1798	NW_004516208.1	scaffold843	1798	CC	GG	GG	INTERGENIC			
SNP_84412_A_1817	NW_004516208.1	scaffold843	1817	CC	TT	TT	INTERGENIC			
SNP_84413_A_2484	NW_004516208.1	scaffold843	2484	GG	AA	AA	INTERGENIC			
SNP_84414_A_2530	NW_004516208.1	scaffold843	2530	TT	CC	CC	INTERGENIC			
SNP_84415_A_2633	NW_004516208.1	scaffold843	2633	AA	GG	GG	INTERGENIC			
SNP_84416_A_2945	NW_004516208.1	scaffold843	2945	CC	AA	AA	INTERGENIC			
SNP_84417_A_3505	NW_004516208.1	scaffold843	3505	GG	AA	AA	INTERGENIC			
SNP_84418_A_4155	NW_004516208.1	scaffold843	4155	TT	AA	AA	INTERGENIC			
SNP_84420_A_4449	NW_004516208.1	scaffold843	4449	TT	CC	CC	INTERGENIC			
SNP_84421_A_4480	NW_004516208.1	scaffold843	4480	AA	CC	CC	INTERGENIC			
SNP_84422_A_4565	NW_004516208.1	scaffold843	4565	AA	TT	TT	INTERGENIC			
SNP_84423_A_4632	NW_004516208.1	scaffold843	4632	TT	AA	AA	INTERGENIC			
SNP_84424_A_6160	NW_004516208.1	scaffold843	6160	TT	AA	AA	INTERGENIC			
SNP_84429_A_16958	NW_004516210.1	scaffold845	16958	GG	AA	AA	INTERGENIC			
SNP_84430_A_17963	NW_004516210.1	scaffold845	17963	GG	CC	CC	INTERGENIC			
SNP_84431_A_18530	NW_004516210.1	scaffold845	18530	TT	GG	GG	INTERGENIC			
SNP_84432_A_18531	NW_004516210.1	scaffold845	18531	CC	AA	AA	INTERGENIC			
SNP_84433_A_18532	NW_004516210.1	scaffold845	18532	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84434_A_18554	NW_004516210.1	scaffold845	18554	GG	AA	AA	INTERGENIC			
SNP_84435_A_18766	NW_004516210.1	scaffold845	18766	GG	TT	TT	INTERGENIC			
SNP_84436_A_18780	NW_004516210.1	scaffold845	18780	CC	TT	TT	INTERGENIC			
SNP_84437_A_19279	NW_004516210.1	scaffold845	19279	TT	CC	CC	INTERGENIC			
SNP_84438_A_19285	NW_004516210.1	scaffold845	19285	CC	TT	TT	INTERGENIC			
SNP_84439_A_19851	NW_004516210.1	scaffold845	19851	CC	AA	AA	INTERGENIC			
SNP_84440_A_23311	NW_004516210.1	scaffold845	23311	AA	CC	CC	INTERGENIC			
SNP_84441_A_23521	NW_004516210.1	scaffold845	23521	AA	TT	TT	INTERGENIC			
SNP_84442_A_23523	NW_004516210.1	scaffold845	23523	CC	GG	GG	INTERGENIC			
SNP_84444_A_23573	NW_004516210.1	scaffold845	23573	TT	GG	GG	INTERGENIC			
SNP_84445_A_25536	NW_004516210.1	scaffold845	25536	TT	AA	AA	INTERGENIC			
SNP_84446_A_25540	NW_004516210.1	scaffold845	25540	AA	CC	CC	INTERGENIC			
SNP_84447_A_25566	NW_004516210.1	scaffold845	25566	GG	TT	TT	INTERGENIC			
SNP_84448_A_27812	NW_004516210.1	scaffold845	27812	GG	CC	CC	DRR	101513357	transcription factor bHLH57-like	
SNP_84449_A_28483	NW_004516210.1	scaffold845	28483	TT	CC	CC	INTRON	101513357	transcription factor bHLH57-like	
SNP_84450_A_28520	NW_004516210.1	scaffold845	28520	AA	CC	CC	INTRON	101513357	transcription factor bHLH57-like	
SNP_84451_A_28525	NW_004516210.1	scaffold845	28525	TT	AA	AA	INTRON	101513357	transcription factor bHLH57-like	
SNP_84452_A_28528	NW_004516210.1	scaffold845	28528	AA	GG	GG	INTRON	101513357	transcription factor bHLH57-like	
SNP_84454_A_28566	NW_004516210.1	scaffold845	28566	GG	TT	TT	INTRON	101513357	transcription factor bHLH57-like	
SNP_84455_A_31721	NW_004516210.1	scaffold845	31721	TT	AA	AA	URR	101513357	transcription factor bHLH57-like	
SNP_84456_A_31891	NW_004516210.1	scaffold845	31891	CC	TT	TT	URR	101513357	transcription factor bHLH57-like	
SNP_84458_A_31959	NW_004516210.1	scaffold845	31959	TT	CC	CC	URR	101513357	transcription factor bHLH57-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84459_A_31961	NW_004516210.1	scaffold845	31961	GG	CC	CC	URR	101513357	transcription factor bHLH57-like
SNP_84460_A_32003	NW_004516210.1	scaffold845	32003	AA	CC	CC	URR	101513357	transcription factor bHLH57-like
SNP_84461_A_32027	NW_004516210.1	scaffold845	32027	AA	TT	TT	URR	101513357	transcription factor bHLH57-like
SNP_84463_A_39122	NW_004516210.1	scaffold845	39122	GG	TT	TT	INTERGENIC		
SNP_84465_A_39902	NW_004516210.1	scaffold845	39902	CC	AA	AA	INTERGENIC		
SNP_84466_A_39907	NW_004516210.1	scaffold845	39907	AA	TT	TT	INTERGENIC		
SNP_84467_A_40281	NW_004516210.1	scaffold845	40281	TT	CC	CC	INTERGENIC		
SNP_84468_A_40305	NW_004516210.1	scaffold845	40305	GG	CC	CC	INTERGENIC		
SNP_84469_A_40370	NW_004516210.1	scaffold845	40370	AA	GG	GG	INTERGENIC		
SNP_84470_A_48005	NW_004516210.1	scaffold845	48005	AA	GG	GG	URR	101513677	metal tolerance protein 1-like
SNP_84471_A_48013	NW_004516210.1	scaffold845	48013	AA	TT	TT	URR	101513677	metal tolerance protein 1-like
SNP_84472_A_48137	NW_004516210.1	scaffold845	48137	CC	AA	AA	URR	101513677	metal tolerance protein 1-like
SNP_84473_A_48399	NW_004516210.1	scaffold845	48399	CC	TT	TT	URR	101513677	metal tolerance protein 1-like
SNP_84474_A_48712	NW_004516210.1	scaffold845	48712	AA	GG	GG	URR	101513677	metal tolerance protein 1-like
SNP_84475_A_48930	NW_004516210.1	scaffold845	48930	AA	GG	GG	URR	101513677	metal tolerance protein 1-like
SNP_84476_A_49192	NW_004516210.1	scaffold845	49192	AA	TT	TT	URR	101513677	metal tolerance protein 1-like
SNP_84477_A_52385	NW_004516210.1	scaffold845	52385	CC	TT	TT	INTERGENIC		
SNP_84478_A_52421	NW_004516210.1	scaffold845	52421	GG	AA	AA	INTERGENIC		
SNP_84479_A_52444	NW_004516210.1	scaffold845	52444	TT	GG	GG	INTERGENIC		
SNP_84480_A_59390	NW_004516210.1	scaffold845	59390	CC	TT	TT	INTERGENIC		
SNP_84481_A_59775	NW_004516210.1	scaffold845	59775	GG	AA	AA	INTERGENIC		
SNP_84482_A_60451	NW_004516210.1	scaffold845	60451	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84483_A_60456	NW_004516210.1	scaffold845	60456	TT	CC	CC	INTERGENIC			
SNP_84485_A_64516	NW_004516210.1	scaffold845	64516	AA	CC	CC	INTERGENIC			
SNP_84486_A_64539	NW_004516210.1	scaffold845	64539	CC	AA	AA	INTERGENIC			
SNP_84487_A_69761	NW_004516210.1	scaffold845	69761	AA	GG	GG	INTERGENIC			
SNP_84489_A_70057	NW_004516210.1	scaffold845	70057	AA	GG	GG	INTERGENIC			
SNP_84490_A_70073	NW_004516210.1	scaffold845	70073	CC	TT	TT	INTERGENIC			
SNP_84491_A_70220	NW_004516210.1	scaffold845	70220	AA	TT	TT	INTERGENIC			
SNP_84492_A_75476	NW_004516210.1	scaffold845	75476	CC	TT	TT	INTERGENIC			
SNP_84493_A_76848	NW_004516210.1	scaffold845	76848	AA	CC	CC	INTERGENIC			
SNP_84494_A_76911	NW_004516210.1	scaffold845	76911	GG	AA	AA	INTERGENIC			
SNP_84495_A_81663	NW_004516210.1	scaffold845	81663	CC	TT	TT	INTERGENIC			
SNP_84496_A_81791	NW_004516210.1	scaffold845	81791	TT	CC	CC	INTERGENIC			
SNP_84498_A_81969	NW_004516210.1	scaffold845	81969	CC	TT	TT	INTERGENIC			
SNP_84499_A_81990	NW_004516210.1	scaffold845	81990	AA	GG	GG	INTERGENIC			
SNP_84500_A_82013	NW_004516210.1	scaffold845	82013	TT	GG	GG	INTERGENIC			
SNP_84501_A_82147	NW_004516210.1	scaffold845	82147	TT	GG	GG	INTERGENIC			
SNP_84502_A_82176	NW_004516210.1	scaffold845	82176	CC	TT	TT	INTERGENIC			
SNP_84503_A_82259	NW_004516210.1	scaffold845	82259	TT	CC	CC	INTERGENIC			
SNP_84504_A_82272	NW_004516210.1	scaffold845	82272	GG	CC	CC	INTERGENIC			
SNP_84505_A_82333	NW_004516210.1	scaffold845	82333	TT	CC	CC	INTERGENIC			
SNP_84506_A_82337	NW_004516210.1	scaffold845	82337	AA	TT	TT	INTERGENIC			
SNP_84507_A_82510	NW_004516210.1	scaffold845	82510	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84508_A_82519	NW_004516210.1	scaffold845	82519	GG	AA	AA	INTERGENIC		
SNP_84509_A_84545	NW_004516210.1	scaffold845	84545	TT	GG	GG	INTERGENIC		
SNP_84510_A_85250	NW_004516210.1	scaffold845	85250	AA	TT	TT	INTERGENIC		
SNP_84511_A_85453	NW_004516210.1	scaffold845	85453	GG	CC	CC	INTERGENIC		
SNP_84512_A_87550	NW_004516210.1	scaffold845	87550	TT	CC	CC	INTERGENIC		
SNP_84513_A_87565	NW_004516210.1	scaffold845	87565	TT	AA	AA	INTERGENIC		
SNP_84514_A_87869	NW_004516210.1	scaffold845	87869	TT	GG	GG	INTERGENIC		
SNP_84515_A_88026	NW_004516210.1	scaffold845	88026	GG	AA	AA	INTERGENIC		
SNP_84516_A_94816	NW_004516210.1	scaffold845	94816	AA	GG	GG	INTERGENIC		
SNP_84517_A_100380	NW_004516210.1	scaffold845	100380	GG	AA	AA	INTERGENIC		
SNP_84518_A_100399	NW_004516210.1	scaffold845	100399	AA	GG	GG	INTERGENIC		
SNP_84519_A_100414	NW_004516210.1	scaffold845	100414	AA	GG	GG	INTERGENIC		
SNP_84520_A_100466	NW_004516210.1	scaffold845	100466	CC	TT	TT	INTERGENIC		
SNP_84521_A_100474	NW_004516210.1	scaffold845	100474	CC	AA	AA	INTERGENIC		
SNP_84522_A_100568	NW_004516210.1	scaffold845	100568	TT	GG	GG	INTERGENIC		
SNP_84523_A_100578	NW_004516210.1	scaffold845	100578	CC	TT	TT	INTERGENIC		
SNP_84524_A_100646	NW_004516210.1	scaffold845	100646	TT	CC	CC	INTERGENIC		
SNP_84525_A_100879	NW_004516210.1	scaffold845	100879	CC	TT	TT	INTERGENIC		
SNP_84526_A_100936	NW_004516210.1	scaffold845	100936	TT	AA	AA	INTERGENIC		
SNP_84527_A_101068	NW_004516210.1	scaffold845	101068	CC	TT	TT	DRR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84529_A_101199	NW_004516210.1	scaffold845	101199	AA	GG	GG	DRR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84530_A_101290	NW_004516210.1	scaffold845	101290	GG	AA	AA	DRR	101491015	28 kDa ribonucleoprotein, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84531_A_101347	NW_004516210.1	scaffold845	101347	GG	AA	AA	DRR		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84532_A_101705	NW_004516210.1	scaffold845	101705	TT	CC	CC	DRR		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84533_A_101723	NW_004516210.1	scaffold845	101723	CC	TT	TT	DRR		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84534_A_102032	NW_004516210.1	scaffold845	102032	GG	CC	CC	DRR		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84535_A_102151	NW_004516210.1	scaffold845	102151	GG	AA	AA	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84538_A_102579	NW_004516210.1	scaffold845	102579	AA	GG	GG	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84539_A_102712	NW_004516210.1	scaffold845	102712	CC	GG	GG	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84540_A_102818	NW_004516210.1	scaffold845	102818	AA	TT	TT	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84541_A_102990	NW_004516210.1	scaffold845	102990	GG	AA	AA	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84543_A_103276	NW_004516210.1	scaffold845	103276	TT	CC	CC	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84544_A_103583	NW_004516210.1	scaffold845	103583	CC	TT	TT	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84545_A_103676	NW_004516210.1	scaffold845	103676	TT	AA	AA	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84546_A_103708	NW_004516210.1	scaffold845	103708	GG	AA	AA	STOP_GAINED		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84547_A_103863	NW_004516210.1	scaffold845	103863	CC	AA	AA	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84549_A_103935	NW_004516210.1	scaffold845	103935	AA	CC	CC	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84550_A_103963	NW_004516210.1	scaffold845	103963	TT	CC	CC	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84551_A_103986	NW_004516210.1	scaffold845	103986	GG	AA	AA	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84552_A_104138	NW_004516210.1	scaffold845	104138	AA	GG	GG	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84553_A_104144	NW_004516210.1	scaffold845	104144	TT	GG	GG	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84554_A_104159	NW_004516210.1	scaffold845	104159	CC	TT	TT	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84555_A_104191	NW_004516210.1	scaffold845	104191	CC	TT	TT	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84556_A_104345	NW_004516210.1	scaffold845	104345	CC	TT	TT	INTRON		101491015	28 kDa ribonucleoprotein, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84557_A_104370	NW_004516210.1	scaffold845	104370	AA	GG	GG	INTRON	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84558_A_104534	NW_004516210.1	scaffold845	104534	TT	GG	GG	INTRON	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84559_A_106078	NW_004516210.1	scaffold845	106078	CC	TT	TT	URR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84560_A_106176	NW_004516210.1	scaffold845	106176	GG	TT	TT	URR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84561_A_106222	NW_004516210.1	scaffold845	106222	AA	GG	GG	URR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84562_A_106470	NW_004516210.1	scaffold845	106470	TT	AA	AA	URR	101491015	28 kDa ribonucleoprotein, chloroplastic-like
SNP_84563_A_109972	NW_004516210.1	scaffold845	109972	AA	GG	GG	INTERGENIC		
SNP_84565_A_116840	NW_004516210.1	scaffold845	116840	GG	AA	AA	INTERGENIC		
SNP_84566_A_116911	NW_004516210.1	scaffold845	116911	TT	AA	AA	INTERGENIC		
SNP_84567_A_116925	NW_004516210.1	scaffold845	116925	TT	CC	CC	INTERGENIC		
SNP_84568_A_120668	NW_004516210.1	scaffold845	120668	TT	GG	GG	INTERGENIC		
SNP_84569_A_120684	NW_004516210.1	scaffold845	120684	GG	TT	TT	INTERGENIC		
SNP_84570_A_129566	NW_004516210.1	scaffold845	129566	AA	CC	CC	INTRON	101514768	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic-like
SNP_84572_A_132794	NW_004516210.1	scaffold845	132794	GG	TT	TT	URR	101514768	pyruvate dehydrogenase E1 component subunit alpha-3, chloroplastic-like
SNP_84574_A_133157	NW_004516210.1	scaffold845	133157	AA	GG	GG	INTERGENIC		
SNP_84575_A_133165	NW_004516210.1	scaffold845	133165	GG	TT	TT	INTERGENIC		
SNP_84578_A_135728	NW_004516210.1	scaffold845	135728	CC	TT	TT	URR	101410594	transfer RNA cysteine (anticodon GCA)
SNP_84579_A_138050	NW_004516210.1	scaffold845	138050	AA	GG	GG	INTERGENIC		
SNP_84580_A_138081	NW_004516210.1	scaffold845	138081	CC	AA	AA	INTERGENIC		
SNP_84581_A_138808	NW_004516210.1	scaffold845	138808	AA	GG	GG	INTERGENIC		
SNP_84582_A_140810	NW_004516210.1	scaffold845	140810	CC	TT	TT	SYNONYMOUS_CODING	101515093	vacuolar protein sorting-associated protein 8 homolog
SNP_84584_A_142755	NW_004516210.1	scaffold845	142755	AA	GG	GG	INTRON	101515093	vacuolar protein sorting-associated protein 8 homolog

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84585_A_145990	NW_004516210.1	scaffold845	145990	AA	TT	TT	URR	101515093	vacuolar protein sorting-associated protein 8 homolog
SNP_84586_A_146829	NW_004516210.1	scaffold845	146829	AA	GG	GG	URR	101515093	vacuolar protein sorting-associated protein 8 homolog
SNP_84587_A_148397	NW_004516210.1	scaffold845	148397	TT	AA	AA	INTERGENIC		
SNP_84588_A_149478	NW_004516210.1	scaffold845	149478	GG	AA	AA	INTERGENIC		
SNP_84589_A_149518	NW_004516210.1	scaffold845	149518	AA	GG	GG	INTERGENIC		
SNP_84591_A_151425	NW_004516210.1	scaffold845	151425	AA	GG	GG	INTERGENIC		
SNP_84592_A_151559	NW_004516210.1	scaffold845	151559	TT	CC	CC	DRR	101515416	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_84593_A_152034	NW_004516210.1	scaffold845	152034	GG	AA	AA	DRR	101515416	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_84595_A_160376	NW_004516210.1	scaffold845	160376	GG	AA	AA	URR	101515750	60S acidic ribosomal protein P1-2-like
SNP_84596_A_160392	NW_004516210.1	scaffold845	160392	GG	AA	AA	URR	101515750	60S acidic ribosomal protein P1-2-like
SNP_84597_A_161187	NW_004516210.1	scaffold845	161187	GG	AA	AA	URR	101515750	60S acidic ribosomal protein P1-2-like
SNP_84598_A_162853	NW_004516210.1	scaffold845	162853	AA	GG	GG	INTERGENIC		
SNP_84599_A_163122	NW_004516210.1	scaffold845	163122	CC	TT	TT	INTERGENIC		
SNP_84602_A_171691	NW_004516210.1	scaffold845	171691	TT	GG	GG	INTERGENIC		
SNP_84604_A_175238	NW_004516210.1	scaffold845	175238	GG	TT	TT	DRR	101488730	uncharacterized LOC101488730
SNP_84605_A_176128	NW_004516210.1	scaffold845	176128	TT	GG	GG	SYNONYMOUS_CODING	101488730	uncharacterized LOC101488730
SNP_84607_A_230609	NW_004516210.1	scaffold845	230609	GG	TT	TT	INTERGENIC		
SNP_84608_A_230998	NW_004516210.1	scaffold845	230998	CC	GG	GG	INTERGENIC		
SNP_84609_A_231000	NW_004516210.1	scaffold845	231000	TT	GG	GG	INTERGENIC		
SNP_84610_A_245481	NW_004516210.1	scaffold845	245481	CC	AA	AA	INTERGENIC		
SNP_84611_A_246275	NW_004516210.1	scaffold845	246275	AA	GG	GG	INTERGENIC		
SNP_84612_A_255902	NW_004516210.1	scaffold845	255902	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84613_A_266194	NW_004516210.1	scaffold845	266194	CC	TT	TT	INTERGENIC		
SNP_84614_A_266217	NW_004516210.1	scaffold845	266217	TT	CC	CC	INTERGENIC		
SNP_84615_A_266232	NW_004516210.1	scaffold845	266232	AA	GG	GG	INTERGENIC		
SNP_84616_A_326288	NW_004516210.1	scaffold845	326288	AA	CC	CC	INTERGENIC		
SNP_84617_A_330030	NW_004516210.1	scaffold845	330030	CC	TT	TT	INTERGENIC		
SNP_84618_A_330092	NW_004516210.1	scaffold845	330092	AA	GG	GG	INTERGENIC		
SNP_84619_A_331886	NW_004516210.1	scaffold845	331886	AA	GG	GG	INTERGENIC		
SNP_84621_A_331991	NW_004516210.1	scaffold845	331991	CC	GG	GG	INTERGENIC		
SNP_84622_A_332243	NW_004516210.1	scaffold845	332243	GG	CC	CC	INTERGENIC		
SNP_84623_A_347639	NW_004516210.1	scaffold845	347639	AA	GG	GG	INTERGENIC		
SNP_84625_A_375540	NW_004516210.1	scaffold845	375540	AA	TT	TT	URR	101490698	protein IQ-DOMAIN 1-like
SNP_84626_A_384624	NW_004516210.1	scaffold845	384624	GG	AA	AA	INTERGENIC		
SNP_84627_A_31623	NW_004516211.1	scaffold847	31623	TT	CC	CC	INTERGENIC		
SNP_84628_A_31632	NW_004516211.1	scaffold847	31632	TT	CC	CC	INTERGENIC		
SNP_84629_A_31792	NW_004516211.1	scaffold847	31792	TT	CC	CC	INTERGENIC		
SNP_84630_A_32094	NW_004516211.1	scaffold847	32094	GG	AA	AA	INTERGENIC		
SNP_84631_A_32495	NW_004516211.1	scaffold847	32495	AA	GG	GG	INTERGENIC		
SNP_84632_A_72062	NW_004516211.1	scaffold847	72062	AA	CC	CC	INTERGENIC		
SNP_84633_A_75571	NW_004516211.1	scaffold847	75571	TT	CC	CC	INTERGENIC		
SNP_84634_A_75629	NW_004516211.1	scaffold847	75629	GG	AA	AA	INTERGENIC		
SNP_84635_A_75721	NW_004516211.1	scaffold847	75721	TT	CC	CC	INTERGENIC		
SNP_84636_A_75762	NW_004516211.1	scaffold847	75762	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84637_A_75977	NW_004516211.1	scaffold847	75977	TT	CC	CC	INTERGENIC			
SNP_84638_A_76016	NW_004516211.1	scaffold847	76016	GG	AA	AA	INTERGENIC			
SNP_84639_A_76109	NW_004516211.1	scaffold847	76109	CC	TT	TT	INTERGENIC			
SNP_84640_A_82561	NW_004516211.1	scaffold847	82561	TT	CC	CC	INTERGENIC			
SNP_84642_A_121173	NW_004516211.1	scaffold847	121173	TT	AA	AA	INTERGENIC			
SNP_84643_A_123084	NW_004516211.1	scaffold847	123084	GG	AA	AA	INTERGENIC			
SNP_84644_A_129906	NW_004516211.1	scaffold847	129906	AA	GG	GG	INTERGENIC			
SNP_84645_A_130463	NW_004516211.1	scaffold847	130463	CC	TT	TT	INTERGENIC			
SNP_84646_A_145576	NW_004516211.1	scaffold847	145576	GG	TT	TT	INTERGENIC			
SNP_84647_A_244617	NW_004516211.1	scaffold847	244617	GG	AA	AA	INTERGENIC			
SNP_84648_A_244901	NW_004516211.1	scaffold847	244901	TT	GG	GG	INTERGENIC			
SNP_84649_A_281626	NW_004516211.1	scaffold847	281626	CC	AA	AA	INTERGENIC			
SNP_84650_A_289404	NW_004516211.1	scaffold847	289404	AA	CC	CC	INTERGENIC			
SNP_84651_A_302482	NW_004516211.1	scaffold847	302482	AA	GG	GG	INTERGENIC			
SNP_84653_A_303083	NW_004516211.1	scaffold847	303083	TT	AA	AA	INTERGENIC			
SNP_84654_A_303093	NW_004516211.1	scaffold847	303093	TT	GG	GG	INTERGENIC			
SNP_84656_A_6400	NW_004516212.1	scaffold848	6400	AA	GG	GG	INTERGENIC			
SNP_84657_A_6410	NW_004516212.1	scaffold848	6410	CC	AA	AA	INTERGENIC			
SNP_84658_A_6458	NW_004516212.1	scaffold848	6458	AA	GG	GG	INTERGENIC			
SNP_84659_A_23760	NW_004516212.1	scaffold848	23760	GG	AA	AA	INTERGENIC			
SNP_84660_A_23771	NW_004516212.1	scaffold848	23771	TT	GG	GG	INTERGENIC			
SNP_84661_A_23811	NW_004516212.1	scaffold848	23811	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84662_A_23934	NW_004516212.1	scaffold848	23934	AA	TT	TT	INTERGENIC		
SNP_84663_A_23937	NW_004516212.1	scaffold848	23937	CC	TT	TT	INTERGENIC		
SNP_84664_A_24094	NW_004516212.1	scaffold848	24094	CC	TT	TT	INTERGENIC		
SNP_84665_A_24201	NW_004516212.1	scaffold848	24201	TT	CC	CC	INTERGENIC		
SNP_84666_A_64050	NW_004516212.1	scaffold848	64050	GG	CC	CC	INTERGENIC		
SNP_84668_A_126918	NW_004516212.1	scaffold848	126918	GG	AA	AA	DRR	101497173	uncharacterized LOC101497173
SNP_84669_A_180712	NW_004516212.1	scaffold848	180712	TT	CC	CC	INTERGENIC		
SNP_84670_A_180726	NW_004516212.1	scaffold848	180726	AA	CC	CC	INTERGENIC		
SNP_84671_A_180739	NW_004516212.1	scaffold848	180739	AA	TT	TT	INTERGENIC		
SNP_84673_A_1204	NW_004516213.1	scaffold850	1204	GG	AA	AA	INTERGENIC		
SNP_84674_A_1830	NW_004516213.1	scaffold850	1830	GG	TT	TT	INTERGENIC		
SNP_84675_A_6239	NW_004516215.1	scaffold853	6239	TT	CC	CC	INTERGENIC		
SNP_84676_A_5529	NW_004516216.1	scaffold854	5529	CC	TT	TT	INTERGENIC		
SNP_84678_A_17397	NW_004516217.1	scaffold855	17397	CC	TT	TT	INTERGENIC		
SNP_84679_A_27078	NW_004516217.1	scaffold855	27078	TT	CC	CC	INTERGENIC		
SNP_84681_A_31043	NW_004516217.1	scaffold855	31043	AA	GG	GG	INTERGENIC		
SNP_84682_A_31066	NW_004516217.1	scaffold855	31066	TT	CC	CC	INTERGENIC		
SNP_84683_A_31084	NW_004516217.1	scaffold855	31084	GG	CC	CC	INTERGENIC		
SNP_84684_A_31111	NW_004516217.1	scaffold855	31111	CC	TT	TT	INTERGENIC		
SNP_84685_A_31124	NW_004516217.1	scaffold855	31124	GG	TT	TT	INTERGENIC		
SNP_84686_A_31143	NW_004516217.1	scaffold855	31143	AA	GG	GG	INTERGENIC		
SNP_84688_A_31223	NW_004516217.1	scaffold855	31223	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84689_A_31228	NW_004516217.1	scaffold855	31228	CC	TT	TT	INTERGENIC			
SNP_84690_A_31264	NW_004516217.1	scaffold855	31264	GG	CC	CC	INTERGENIC			
SNP_84691_A_31272	NW_004516217.1	scaffold855	31272	CC	TT	TT	INTERGENIC			
SNP_84692_A_31289	NW_004516217.1	scaffold855	31289	AA	GG	GG	INTERGENIC			
SNP_84693_A_31304	NW_004516217.1	scaffold855	31304	AA	CC	CC	INTERGENIC			
SNP_84694_A_31335	NW_004516217.1	scaffold855	31335	CC	TT	TT	INTERGENIC			
SNP_84695_A_31367	NW_004516217.1	scaffold855	31367	AA	GG	GG	INTERGENIC			
SNP_84697_A_31486	NW_004516217.1	scaffold855	31486	TT	CC	CC	INTERGENIC			
SNP_84699_A_31533	NW_004516217.1	scaffold855	31533	CC	TT	TT	INTERGENIC			
SNP_84700_A_31555	NW_004516217.1	scaffold855	31555	TT	CC	CC	INTERGENIC			
SNP_84701_A_31696	NW_004516217.1	scaffold855	31696	GG	TT	TT	INTERGENIC			
SNP_84702_A_31753	NW_004516217.1	scaffold855	31753	GG	TT	TT	INTERGENIC			
SNP_84703_A_31810	NW_004516217.1	scaffold855	31810	TT	AA	AA	INTERGENIC			
SNP_84704_A_31947	NW_004516217.1	scaffold855	31947	AA	TT	TT	INTERGENIC			
SNP_84705_A_32000	NW_004516217.1	scaffold855	32000	AA	TT	TT	INTERGENIC			
SNP_84706_A_32002	NW_004516217.1	scaffold855	32002	AA	GG	GG	INTERGENIC			
SNP_84707_A_38545	NW_004516217.1	scaffold855	38545	CC	TT	TT	INTERGENIC			
SNP_84708_A_8518	NW_004516219.1	scaffold857	8518	AA	CC	CC	INTERGENIC			
SNP_84709_A_24221	NW_004516219.1	scaffold857	24221	GG	AA	AA	INTERGENIC			
SNP_84711_A_24528	NW_004516219.1	scaffold857	24528	AA	GG	GG	INTERGENIC			
SNP_84712_A_26553	NW_004516219.1	scaffold857	26553	AA	GG	GG	INTERGENIC			
SNP_84714_A_26613	NW_004516219.1	scaffold857	26613	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84715_A_26794	NW_004516219.1	scaffold857	26794	TT	CC	CC	INTERGENIC			
SNP_84716_A_26818	NW_004516219.1	scaffold857	26818	CC	TT	TT	INTERGENIC			
SNP_84717_A_26827	NW_004516219.1	scaffold857	26827	TT	CC	CC	INTERGENIC			
SNP_84718_A_26928	NW_004516219.1	scaffold857	26928	TT	GG	GG	INTERGENIC			
SNP_84719_A_27081	NW_004516219.1	scaffold857	27081	TT	GG	GG	INTERGENIC			
SNP_84720_A_26063	NW_004516221.1	scaffold859	26063	CC	AA	AA	INTERGENIC			
SNP_84721_A_26131	NW_004516221.1	scaffold859	26131	AA	GG	GG	INTERGENIC			
SNP_84722_A_27231	NW_004516221.1	scaffold859	27231	TT	CC	CC	INTERGENIC			
SNP_84723_A_27516	NW_004516221.1	scaffold859	27516	AA	GG	GG	INTERGENIC			
SNP_84724_A_63280	NW_004516221.1	scaffold859	63280	GG	AA	AA	INTERGENIC			
SNP_84725_A_63281	NW_004516221.1	scaffold859	63281	AA	TT	TT	INTERGENIC			
SNP_84726_A_63573	NW_004516221.1	scaffold859	63573	AA	GG	GG	INTERGENIC			
SNP_84727_A_85673	NW_004516221.1	scaffold859	85673	GG	AA	AA	INTERGENIC			
SNP_84728_A_3588	NW_004516222.1	scaffold860	3588	TT	CC	CC	INTERGENIC			
SNP_84729_A_4197	NW_004516222.1	scaffold860	4197	GG	CC	CC	INTERGENIC			
SNP_84730_A_4446	NW_004516222.1	scaffold860	4446	CC	TT	TT	INTERGENIC			
SNP_84731_A_3159	NW_004516223.1	scaffold861	3159	AA	TT	TT	INTERGENIC			
SNP_84732_A_170	NW_004516224.1	scaffold862	170	AA	GG	GG	INTERGENIC			
SNP_84733_A_196	NW_004516224.1	scaffold862	196	CC	TT	TT	INTERGENIC			
SNP_84734_A_264	NW_004516224.1	scaffold862	264	AA	CC	CC	INTERGENIC			
SNP_84735_A_309	NW_004516224.1	scaffold862	309	AA	GG	GG	INTERGENIC			
SNP_84736_A_517	NW_004516224.1	scaffold862	517	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84737_A_547	NW_004516224.1	scaffold862	547	CC	AA	AA	INTERGENIC			
SNP_84738_A_18673	NW_004516224.1	scaffold862	18673	GG	AA	AA	INTERGENIC			
SNP_84739_A_19163	NW_004516224.1	scaffold862	19163	CC	TT	TT	INTERGENIC			
SNP_84740_A_22638	NW_004516224.1	scaffold862	22638	CC	AA	AA	INTERGENIC			
SNP_84741_A_22699	NW_004516224.1	scaffold862	22699	AA	GG	GG	INTERGENIC			
SNP_84742_A_22726	NW_004516224.1	scaffold862	22726	AA	TT	TT	INTERGENIC			
SNP_84743_A_22787	NW_004516224.1	scaffold862	22787	AA	CC	CC	INTERGENIC			
SNP_84744_A_22862	NW_004516224.1	scaffold862	22862	AA	GG	GG	INTERGENIC			
SNP_84745_A_23160	NW_004516224.1	scaffold862	23160	GG	AA	AA	INTERGENIC			
SNP_84746_A_28926	NW_004516224.1	scaffold862	28926	AA	GG	GG	INTERGENIC			
SNP_84747_A_28933	NW_004516224.1	scaffold862	28933	GG	AA	AA	INTERGENIC			
SNP_84748_A_28992	NW_004516224.1	scaffold862	28992	AA	CC	CC	INTERGENIC			
SNP_84749_A_29004	NW_004516224.1	scaffold862	29004	TT	CC	CC	INTERGENIC			
SNP_84750_A_29013	NW_004516224.1	scaffold862	29013	GG	TT	TT	INTERGENIC			
SNP_84751_A_29141	NW_004516224.1	scaffold862	29141	TT	CC	CC	INTERGENIC			
SNP_84752_A_29169	NW_004516224.1	scaffold862	29169	AA	GG	GG	INTERGENIC			
SNP_84753_A_29186	NW_004516224.1	scaffold862	29186	AA	CC	CC	INTERGENIC			
SNP_84754_A_29191	NW_004516224.1	scaffold862	29191	CC	AA	AA	INTERGENIC			
SNP_84755_A_32551	NW_004516224.1	scaffold862	32551	AA	GG	GG	INTERGENIC			
SNP_84756_A_32580	NW_004516224.1	scaffold862	32580	TT	CC	CC	INTERGENIC			
SNP_84757_A_32617	NW_004516224.1	scaffold862	32617	CC	TT	TT	INTERGENIC			
SNP_84758_A_32980	NW_004516224.1	scaffold862	32980	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84759_A_34603	NW_004516224.1	scaffold862	34603	CC	TT	TT	INTERGENIC			
SNP_84760_A_34615	NW_004516224.1	scaffold862	34615	AA	TT	TT	INTERGENIC			
SNP_84761_A_34787	NW_004516224.1	scaffold862	34787	GG	TT	TT	INTERGENIC			
SNP_84762_A_35019	NW_004516224.1	scaffold862	35019	TT	GG	GG	INTERGENIC			
SNP_84763_A_35026	NW_004516224.1	scaffold862	35026	AA	GG	GG	INTERGENIC			
SNP_84764_A_35030	NW_004516224.1	scaffold862	35030	GG	TT	TT	INTERGENIC			
SNP_84765_A_35059	NW_004516224.1	scaffold862	35059	TT	CC	CC	INTERGENIC			
SNP_84766_A_35372	NW_004516224.1	scaffold862	35372	TT	GG	GG	INTERGENIC			
SNP_84767_A_35940	NW_004516224.1	scaffold862	35940	AA	GG	GG	INTERGENIC			
SNP_84768_A_36318	NW_004516224.1	scaffold862	36318	GG	AA	AA	INTERGENIC			
SNP_84769_A_36344	NW_004516224.1	scaffold862	36344	GG	CC	CC	INTERGENIC			
SNP_84770_A_41723	NW_004516224.1	scaffold862	41723	CC	TT	TT	INTERGENIC			
SNP_84771_A_41724	NW_004516224.1	scaffold862	41724	AA	CC	CC	INTERGENIC			
SNP_84772_A_41726	NW_004516224.1	scaffold862	41726	GG	AA	AA	INTERGENIC			
SNP_84773_A_41767	NW_004516224.1	scaffold862	41767	GG	CC	CC	INTERGENIC			
SNP_84774_A_41801	NW_004516224.1	scaffold862	41801	AA	GG	GG	INTERGENIC			
SNP_84775_A_44289	NW_004516224.1	scaffold862	44289	TT	GG	GG	INTERGENIC			
SNP_84776_A_44306	NW_004516224.1	scaffold862	44306	CC	AA	AA	INTERGENIC			
SNP_84777_A_44308	NW_004516224.1	scaffold862	44308	TT	CC	CC	INTERGENIC			
SNP_84778_A_44403	NW_004516224.1	scaffold862	44403	TT	AA	AA	INTERGENIC			
SNP_84779_A_44508	NW_004516224.1	scaffold862	44508	TT	AA	AA	INTERGENIC			
SNP_84780_A_44556	NW_004516224.1	scaffold862	44556	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84781_A_44562	NW_004516224.1	scaffold862	44562	CC	TT	TT	INTERGENIC			
SNP_84782_A_44570	NW_004516224.1	scaffold862	44570	GG	AA	AA	INTERGENIC			
SNP_84783_A_44659	NW_004516224.1	scaffold862	44659	GG	AA	AA	INTERGENIC			
SNP_84784_A_48873	NW_004516224.1	scaffold862	48873	GG	AA	AA	INTERGENIC			
SNP_84785_A_48875	NW_004516224.1	scaffold862	48875	AA	GG	GG	INTERGENIC			
SNP_84786_A_48916	NW_004516224.1	scaffold862	48916	AA	CC	CC	INTERGENIC			
SNP_84787_A_50958	NW_004516224.1	scaffold862	50958	TT	GG	GG	INTERGENIC			
SNP_84788_A_51305	NW_004516224.1	scaffold862	51305	TT	AA	AA	INTERGENIC			
SNP_84789_A_51410	NW_004516224.1	scaffold862	51410	AA	GG	GG	INTERGENIC			
SNP_84790_A_51631	NW_004516224.1	scaffold862	51631	GG	AA	AA	INTERGENIC			
SNP_84791_A_51741	NW_004516224.1	scaffold862	51741	GG	CC	CC	INTERGENIC			
SNP_84792_A_55727	NW_004516224.1	scaffold862	55727	TT	CC	CC	INTERGENIC			
SNP_84793_A_55754	NW_004516224.1	scaffold862	55754	TT	CC	CC	INTERGENIC			
SNP_84794_A_57077	NW_004516224.1	scaffold862	57077	AA	GG	GG	INTERGENIC			
SNP_84795_A_57409	NW_004516224.1	scaffold862	57409	AA	GG	GG	INTERGENIC			
SNP_84796_A_57456	NW_004516224.1	scaffold862	57456	TT	CC	CC	INTERGENIC			
SNP_84797_A_59897	NW_004516224.1	scaffold862	59897	GG	CC	CC	INTERGENIC			
SNP_84798_A_59898	NW_004516224.1	scaffold862	59898	TT	GG	GG	INTERGENIC			
SNP_84799_A_60085	NW_004516224.1	scaffold862	60085	AA	CC	CC	INTERGENIC			
SNP_84800_A_60100	NW_004516224.1	scaffold862	60100	GG	TT	TT	INTERGENIC			
SNP_84801_A_60101	NW_004516224.1	scaffold862	60101	AA	GG	GG	INTERGENIC			
SNP_84802_A_60121	NW_004516224.1	scaffold862	60121	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84803_A_60350	NW_004516224.1	scaffold862	60350	GG	AA	AA	INTERGENIC			
SNP_84804_A_60362	NW_004516224.1	scaffold862	60362	AA	TT	TT	INTERGENIC			
SNP_84805_A_40294	NW_004516226.1	scaffold864	40294	CC	TT	TT	INTERGENIC			
SNP_84806_A_40679	NW_004516226.1	scaffold864	40679	AA	GG	GG	INTERGENIC			
SNP_84807_A_40686	NW_004516226.1	scaffold864	40686	TT	AA	AA	INTERGENIC			
SNP_84808_A_55531	NW_004516226.1	scaffold864	55531	GG	AA	AA	INTERGENIC			
SNP_84809_A_71608	NW_004516226.1	scaffold864	71608	CC	AA	AA	INTERGENIC			
SNP_84810_A_71686	NW_004516226.1	scaffold864	71686	CC	TT	TT	INTERGENIC			
SNP_84811_A_77029	NW_004516226.1	scaffold864	77029	CC	TT	TT	INTERGENIC			
SNP_84812_A_77063	NW_004516226.1	scaffold864	77063	GG	TT	TT	INTERGENIC			
SNP_84813_A_77319	NW_004516226.1	scaffold864	77319	AA	GG	GG	INTERGENIC			
SNP_84814_A_77667	NW_004516226.1	scaffold864	77667	CC	TT	TT	INTERGENIC			
SNP_84815_A_77760	NW_004516226.1	scaffold864	77760	AA	TT	TT	INTERGENIC			
SNP_84816_A_77812	NW_004516226.1	scaffold864	77812	CC	TT	TT	INTERGENIC			
SNP_84817_A_96187	NW_004516226.1	scaffold864	96187	TT	CC	CC	INTERGENIC			
SNP_84818_A_105759	NW_004516226.1	scaffold864	105759	CC	AA	AA	INTERGENIC			
SNP_84819_A_105801	NW_004516226.1	scaffold864	105801	CC	TT	TT	INTERGENIC			
SNP_84820_A_105810	NW_004516226.1	scaffold864	105810	CC	TT	TT	INTERGENIC			
SNP_84821_A_136880	NW_004516226.1	scaffold864	136880	TT	AA	AA	INTERGENIC			
SNP_84822_A_168637	NW_004516226.1	scaffold864	168637	TT	CC	CC	INTERGENIC			
SNP_84823_A_168665	NW_004516226.1	scaffold864	168665	GG	TT	TT	INTERGENIC			
SNP_84824_A_168762	NW_004516226.1	scaffold864	168762	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84825_A_181594	NW_004516226.1	scaffold864	181594	TT	CC	CC	INTERGENIC			
SNP_84826_A_213201	NW_004516226.1	scaffold864	213201	AA	GG	GG	INTERGENIC			
SNP_84828_A_240989	NW_004516226.1	scaffold864	240989	GG	AA	AA	INTERGENIC			
SNP_84830_A_248243	NW_004516226.1	scaffold864	248243	AA	CC	CC	INTERGENIC			
SNP_84831_A_248259	NW_004516226.1	scaffold864	248259	TT	AA	AA	INTERGENIC			
SNP_84832_A_248269	NW_004516226.1	scaffold864	248269	AA	GG	GG	INTERGENIC			
SNP_84833_A_248468	NW_004516226.1	scaffold864	248468	GG	AA	AA	INTERGENIC			
SNP_84834_A_248686	NW_004516226.1	scaffold864	248686	AA	CC	CC	INTERGENIC			
SNP_84835_A_248707	NW_004516226.1	scaffold864	248707	TT	CC	CC	INTERGENIC			
SNP_84836_A_281188	NW_004516226.1	scaffold864	281188	GG	TT	TT	INTERGENIC			
SNP_84837_A_290626	NW_004516226.1	scaffold864	290626	AA	GG	GG	INTERGENIC			
SNP_84838_A_290641	NW_004516226.1	scaffold864	290641	TT	CC	CC	INTERGENIC			
SNP_84839_A_290958	NW_004516226.1	scaffold864	290958	CC	TT	TT	INTERGENIC			
SNP_84840_A_290969	NW_004516226.1	scaffold864	290969	TT	CC	CC	INTERGENIC			
SNP_84841_A_291033	NW_004516226.1	scaffold864	291033	AA	GG	GG	INTERGENIC			
SNP_84842_A_291045	NW_004516226.1	scaffold864	291045	GG	AA	AA	INTERGENIC			
SNP_84843_A_291053	NW_004516226.1	scaffold864	291053	AA	GG	GG	INTERGENIC			
SNP_84844_A_291061	NW_004516226.1	scaffold864	291061	AA	GG	GG	INTERGENIC			
SNP_84845_A_291161	NW_004516226.1	scaffold864	291161	AA	TT	TT	INTERGENIC			
SNP_84847_A_323875	NW_004516226.1	scaffold864	323875	TT	CC	CC	INTERGENIC			
SNP_84848_A_1282	NW_004516227.1	scaffold865	1282	TT	CC	CC	INTERGENIC			
SNP_84849_A_7452	NW_004516227.1	scaffold865	7452	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84850_A_7502	NW_004516227.1	scaffold865	7502	GG	TT	TT	INTERGENIC		
SNP_84851_A_11867	NW_004516227.1	scaffold865	11867	AA	GG	GG	INTERGENIC		
SNP_84852_A_11915	NW_004516227.1	scaffold865	11915	CC	TT	TT	INTERGENIC		
SNP_84853_A_27799	NW_004516228.1	scaffold866	27799	TT	CC	CC	INTERGENIC		
SNP_84855_A_28873	NW_004516228.1	scaffold866	28873	AA	GG	GG	INTERGENIC		
SNP_84856_A_28888	NW_004516228.1	scaffold866	28888	GG	AA	AA	INTERGENIC		
SNP_84857_A_35960	NW_004516228.1	scaffold866	35960	GG	AA	AA	INTERGENIC		
SNP_84860_A_37142	NW_004516228.1	scaffold866	37142	TT	AA	AA	INTERGENIC		
SNP_84861_A_63642	NW_004516228.1	scaffold866	63642	CC	TT	TT	INTRON	101505760	uncharacterized LOC101505760
SNP_84862_A_87556	NW_004516228.1	scaffold866	87556	AA	GG	GG	INTERGENIC		
SNP_84863_A_142412	NW_004516228.1	scaffold866	142412	GG	AA	AA	INTERGENIC		
SNP_84864_A_142415	NW_004516228.1	scaffold866	142415	TT	CC	CC	INTERGENIC		
SNP_84865_A_142445	NW_004516228.1	scaffold866	142445	GG	TT	TT	INTERGENIC		
SNP_84866_A_142464	NW_004516228.1	scaffold866	142464	TT	CC	CC	INTERGENIC		
SNP_84867_A_142472	NW_004516228.1	scaffold866	142472	GG	CC	CC	INTERGENIC		
SNP_84868_A_142781	NW_004516228.1	scaffold866	142781	TT	CC	CC	INTERGENIC		
SNP_84869_A_142806	NW_004516228.1	scaffold866	142806	TT	AA	AA	INTERGENIC		
SNP_84870_A_142858	NW_004516228.1	scaffold866	142858	AA	GG	GG	INTERGENIC		
SNP_84871_A_142894	NW_004516228.1	scaffold866	142894	GG	TT	TT	INTERGENIC		
SNP_84872_A_142895	NW_004516228.1	scaffold866	142895	TT	CC	CC	INTERGENIC		
SNP_84874_A_143013	NW_004516228.1	scaffold866	143013	CC	GG	GG	INTERGENIC		
SNP_84875_A_210309	NW_004516228.1	scaffold866	210309	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84876_A_5781	NW_004516229.1	scaffold868	5781	CC	TT	TT	INTERGENIC			
SNP_84877_A_5804	NW_004516229.1	scaffold868	5804	GG	AA	AA	INTERGENIC			
SNP_84878_A_21585	NW_004516229.1	scaffold868	21585	GG	AA	AA	INTERGENIC			
SNP_84879_A_22215	NW_004516229.1	scaffold868	22215	TT	CC	CC	INTERGENIC			
SNP_84880_A_22363	NW_004516229.1	scaffold868	22363	AA	TT	TT	INTERGENIC			
SNP_84881_A_24868	NW_004516229.1	scaffold868	24868	CC	TT	TT	INTERGENIC			
SNP_84882_A_24873	NW_004516229.1	scaffold868	24873	GG	CC	CC	INTERGENIC			
SNP_84883_A_25542	NW_004516229.1	scaffold868	25542	AA	GG	GG	INTERGENIC			
SNP_84884_A_27228	NW_004516229.1	scaffold868	27228	AA	TT	TT	INTERGENIC			
SNP_84885_A_27362	NW_004516229.1	scaffold868	27362	AA	TT	TT	INTERGENIC			
SNP_84886_A_27721	NW_004516229.1	scaffold868	27721	CC	AA	AA	INTERGENIC			
SNP_84887_A_28505	NW_004516229.1	scaffold868	28505	TT	CC	CC	INTERGENIC			
SNP_84888_A_30365	NW_004516229.1	scaffold868	30365	CC	TT	TT	INTERGENIC			
SNP_84889_A_30381	NW_004516229.1	scaffold868	30381	AA	GG	GG	INTERGENIC			
SNP_84890_A_30423	NW_004516229.1	scaffold868	30423	AA	TT	TT	INTERGENIC			
SNP_84891_A_30433	NW_004516229.1	scaffold868	30433	TT	CC	CC	INTERGENIC			
SNP_84892_A_30469	NW_004516229.1	scaffold868	30469	CC	TT	TT	INTERGENIC			
SNP_84893_A_30591	NW_004516229.1	scaffold868	30591	AA	GG	GG	INTERGENIC			
SNP_84894_A_30655	NW_004516229.1	scaffold868	30655	CC	GG	GG	INTERGENIC			
SNP_84895_A_30672	NW_004516229.1	scaffold868	30672	TT	CC	CC	INTERGENIC			
SNP_84897_A_31621	NW_004516229.1	scaffold868	31621	CC	GG	GG	INTERGENIC			
SNP_84898_A_46681	NW_004516229.1	scaffold868	46681	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84899_A_46922	NW_004516229.1	scaffold868	46922	AA	TT	TT	INTERGENIC			
SNP_84900_A_46964	NW_004516229.1	scaffold868	46964	AA	GG	GG	INTERGENIC			
SNP_84901_A_47014	NW_004516229.1	scaffold868	47014	CC	TT	TT	INTERGENIC			
SNP_84902_A_47037	NW_004516229.1	scaffold868	47037	AA	CC	CC	INTERGENIC			
SNP_84903_A_47067	NW_004516229.1	scaffold868	47067	CC	GG	GG	INTERGENIC			
SNP_84904_A_47119	NW_004516229.1	scaffold868	47119	TT	GG	GG	INTERGENIC			
SNP_84905_A_47120	NW_004516229.1	scaffold868	47120	TT	CC	CC	INTERGENIC			
SNP_84906_A_47163	NW_004516229.1	scaffold868	47163	GG	AA	AA	INTERGENIC			
SNP_84907_A_47260	NW_004516229.1	scaffold868	47260	CC	AA	AA	INTERGENIC			
SNP_84908_A_47263	NW_004516229.1	scaffold868	47263	GG	AA	AA	INTERGENIC			
SNP_84909_A_47317	NW_004516229.1	scaffold868	47317	AA	CC	CC	INTERGENIC			
SNP_84910_A_47353	NW_004516229.1	scaffold868	47353	TT	CC	CC	INTERGENIC			
SNP_84911_A_47392	NW_004516229.1	scaffold868	47392	CC	AA	AA	INTERGENIC			
SNP_84912_A_47398	NW_004516229.1	scaffold868	47398	GG	AA	AA	INTERGENIC			
SNP_84913_A_47439	NW_004516229.1	scaffold868	47439	AA	TT	TT	INTERGENIC			
SNP_84914_A_47463	NW_004516229.1	scaffold868	47463	GG	AA	AA	INTERGENIC			
SNP_84915_A_47503	NW_004516229.1	scaffold868	47503	AA	CC	CC	INTERGENIC			
SNP_84916_A_47505	NW_004516229.1	scaffold868	47505	CC	AA	AA	INTERGENIC			
SNP_84917_A_47524	NW_004516229.1	scaffold868	47524	TT	AA	AA	INTERGENIC			
SNP_84918_A_47598	NW_004516229.1	scaffold868	47598	GG	TT	TT	INTERGENIC			
SNP_84919_A_47623	NW_004516229.1	scaffold868	47623	AA	TT	TT	INTERGENIC			
SNP_84920_A_47699	NW_004516229.1	scaffold868	47699	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84921_A_47789	NW_004516229.1	scaffold868	47789	AA	CC	CC	INTERGENIC		
SNP_84922_A_47835	NW_004516229.1	scaffold868	47835	AA	GG	GG	INTERGENIC		
SNP_84923_A_47856	NW_004516229.1	scaffold868	47856	CC	TT	TT	INTERGENIC		
SNP_84924_A_47917	NW_004516229.1	scaffold868	47917	TT	AA	AA	INTERGENIC		
SNP_84925_A_47978	NW_004516229.1	scaffold868	47978	AA	GG	GG	INTERGENIC		
SNP_84926_A_55762	NW_004516229.1	scaffold868	55762	CC	TT	TT	INTERGENIC		
SNP_84927_A_70599	NW_004516229.1	scaffold868	70599	TT	AA	AA	INTERGENIC		
SNP_84929_A_17369	NW_004516230.1	scaffold869	17369	AA	CC	CC	INTRON	101507689	Unknown function
SNP_84930_A_23136	NW_004516230.1	scaffold869	23136	CC	AA	AA	URR	101507689	Unknown function
SNP_84931_A_28728	NW_004516230.1	scaffold869	28728	TT	AA	AA	INTERGENIC		
SNP_84933_A_57663	NW_004516230.1	scaffold869	57663	TT	GG	GG	INTERGENIC		
SNP_84934_A_59802	NW_004516230.1	scaffold869	59802	CC	GG	GG	INTERGENIC		
SNP_84935_A_69213	NW_004516230.1	scaffold869	69213	TT	CC	CC	INTERGENIC		
SNP_84936_A_73155	NW_004516230.1	scaffold869	73155	GG	CC	CC	INTERGENIC		
SNP_84937_A_73192	NW_004516230.1	scaffold869	73192	GG	AA	AA	INTERGENIC		
SNP_84938_A_73229	NW_004516230.1	scaffold869	73229	CC	TT	TT	INTERGENIC		
SNP_84939_A_73272	NW_004516230.1	scaffold869	73272	GG	AA	AA	INTERGENIC		
SNP_84940_A_83954	NW_004516230.1	scaffold869	83954	CC	AA	AA	INTERGENIC		
SNP_84941_A_84291	NW_004516230.1	scaffold869	84291	AA	GG	GG	INTERGENIC		
SNP_84942_A_90341	NW_004516230.1	scaffold869	90341	GG	AA	AA	INTERGENIC		
SNP_84943_A_96692	NW_004516230.1	scaffold869	96692	TT	CC	CC	INTERGENIC		
SNP_84944_A_96716	NW_004516230.1	scaffold869	96716	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84945_A_97029	NW_004516230.1	scaffold869	97029	CC	TT	TT	INTERGENIC			
SNP_84946_A_111994	NW_004516230.1	scaffold869	111994	TT	AA	AA	INTERGENIC			
SNP_84947_A_111996	NW_004516230.1	scaffold869	111996	CC	TT	TT	INTERGENIC			
SNP_84948_A_114898	NW_004516230.1	scaffold869	114898	TT	CC	CC	INTERGENIC			
SNP_84949_A_121644	NW_004516230.1	scaffold869	121644	AA	GG	GG	INTERGENIC			
SNP_84951_A_141601	NW_004516230.1	scaffold869	141601	CC	TT	TT	INTERGENIC			
SNP_84952_A_151619	NW_004516230.1	scaffold869	151619	TT	CC	CC	INTERGENIC			
SNP_84953_A_151634	NW_004516230.1	scaffold869	151634	AA	GG	GG	INTERGENIC			
SNP_84954_A_151638	NW_004516230.1	scaffold869	151638	AA	GG	GG	INTERGENIC			
SNP_84955_A_151664	NW_004516230.1	scaffold869	151664	CC	AA	AA	INTERGENIC			
SNP_84956_A_151678	NW_004516230.1	scaffold869	151678	TT	AA	AA	INTERGENIC			
SNP_84957_A_151693	NW_004516230.1	scaffold869	151693	TT	CC	CC	INTERGENIC			
SNP_84958_A_1668	NW_004516231.1	scaffold870	1668	AA	CC	CC	INTERGENIC			
SNP_84959_A_1934	NW_004516231.1	scaffold870	1934	TT	CC	CC	INTERGENIC			
SNP_84960_A_11459	NW_004516231.1	scaffold870	11459	AA	TT	TT	INTERGENIC			
SNP_84962_A_43175	NW_004516231.1	scaffold870	43175	CC	AA	AA	INTERGENIC			
SNP_84963_A_43449	NW_004516231.1	scaffold870	43449	AA	GG	GG	INTERGENIC			
SNP_84964_A_58199	NW_004516231.1	scaffold870	58199	AA	CC	CC	INTERGENIC			
SNP_84965_A_58507	NW_004516231.1	scaffold870	58507	AA	CC	CC	INTERGENIC			
SNP_84966_A_73436	NW_004516231.1	scaffold870	73436	TT	AA	AA	INTERGENIC			
SNP_84967_A_73802	NW_004516231.1	scaffold870	73802	AA	TT	TT	INTERGENIC			
SNP_84968_A_76763	NW_004516231.1	scaffold870	76763	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_84969_A_76953	NW_004516231.1	scaffold870	76953	TT	AA	AA	INTERGENIC			
SNP_84970_A_82167	NW_004516231.1	scaffold870	82167	AA	TT	TT	INTERGENIC			
SNP_84971_A_82179	NW_004516231.1	scaffold870	82179	TT	AA	AA	INTERGENIC			
SNP_84974_A_82477	NW_004516231.1	scaffold870	82477	CC	TT	TT	INTERGENIC			
SNP_84975_A_82489	NW_004516231.1	scaffold870	82489	GG	AA	AA	INTERGENIC			
SNP_84976_A_82638	NW_004516231.1	scaffold870	82638	AA	GG	GG	INTERGENIC			
SNP_84977_A_82663	NW_004516231.1	scaffold870	82663	GG	AA	AA	INTERGENIC			
SNP_84978_A_82672	NW_004516231.1	scaffold870	82672	GG	TT	TT	INTERGENIC			
SNP_84979_A_82680	NW_004516231.1	scaffold870	82680	CC	TT	TT	INTERGENIC			
SNP_84980_A_1131	NW_004516232.1	scaffold872	1131	AA	TT	TT	INTERGENIC			
SNP_84981_A_1253	NW_004516232.1	scaffold872	1253	TT	AA	AA	INTERGENIC			
SNP_84982_A_5472	NW_004516232.1	scaffold872	5472	GG	TT	TT	INTERGENIC			
SNP_84983_A_5590	NW_004516232.1	scaffold872	5590	AA	GG	GG	INTERGENIC			
SNP_84984_A_17350	NW_004516232.1	scaffold872	17350	TT	AA	AA	INTERGENIC			
SNP_84985_A_132	NW_004516233.1	scaffold873	132	TT	CC	CC	INTERGENIC			
SNP_84986_A_182	NW_004516233.1	scaffold873	182	GG	CC	CC	INTERGENIC			
SNP_84987_A_229	NW_004516233.1	scaffold873	229	CC	GG	GG	INTERGENIC			
SNP_84988_A_266	NW_004516233.1	scaffold873	266	TT	GG	GG	INTERGENIC			
SNP_84989_A_287	NW_004516233.1	scaffold873	287	AA	GG	GG	INTERGENIC			
SNP_84990_A_320	NW_004516233.1	scaffold873	320	TT	CC	CC	INTERGENIC			
SNP_84991_A_477	NW_004516233.1	scaffold873	477	TT	GG	GG	INTERGENIC			
SNP_84993_A_194373	NW_004516233.1	scaffold873	194373	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_84995_A_241951	NW_004516233.1	scaffold873	241951	AA	GG	GG	INTERGENIC		
SNP_84996_A_242693	NW_004516233.1	scaffold873	242693	TT	CC	CC	INTERGENIC		
SNP_84997_A_242788	NW_004516233.1	scaffold873	242788	CC	TT	AA	INTERGENIC		
SNP_84998_A_242811	NW_004516233.1	scaffold873	242811	GG	AA	AA	INTERGENIC		
SNP_84999_A_262924	NW_004516233.1	scaffold873	262924	TT	AA	AA	INTERGENIC		
SNP_85000_A_262954	NW_004516233.1	scaffold873	262954	TT	AA	AA	INTERGENIC		
SNP_85002_A_286864	NW_004516233.1	scaffold873	286864	CC	TT	TT	INTERGENIC		
SNP_85003_A_287357	NW_004516233.1	scaffold873	287357	TT	CC	CC	INTERGENIC		
SNP_85005_A_312239	NW_004516233.1	scaffold873	312239	GG	AA	AA	INTERGENIC		
SNP_85006_A_315155	NW_004516233.1	scaffold873	315155	TT	GG	GG	INTERGENIC		
SNP_85007_A_318677	NW_004516233.1	scaffold873	318677	AA	CC	CC	INTERGENIC		
SNP_85008_A_334567	NW_004516233.1	scaffold873	334567	AA	CC	CC	INTERGENIC		
SNP_85009_A_344805	NW_004516233.1	scaffold873	344805	AA	GG	GG	INTERGENIC		
SNP_85010_A_344827	NW_004516233.1	scaffold873	344827	AA	CC	CC	INTERGENIC		
SNP_85011_A_344960	NW_004516233.1	scaffold873	344960	AA	GG	GG	INTERGENIC		
SNP_85012_A_345178	NW_004516233.1	scaffold873	345178	AA	CC	CC	INTERGENIC		
SNP_85013_A_345278	NW_004516233.1	scaffold873	345278	TT	AA	AA	INTERGENIC		
SNP_85014_A_25472	NW_004516234.1	scaffold875	25472	GG	AA	AA	INTERGENIC		
SNP_85015_A_69478	NW_004516234.1	scaffold875	69478	CC	TT	TT	NON_SYNONYMOUS_CODING	101489286	uncharacterized LOC101489286
SNP_85016_A_74938	NW_004516234.1	scaffold875	74938	GG	AA	AA	INTERGENIC		
SNP_85017_A_104869	NW_004516234.1	scaffold875	104869	GG	AA	AA	INTERGENIC		
SNP_85018_A_107957	NW_004516234.1	scaffold875	107957	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85019_A_108160	NW_004516234.1	scaffold875	108160	AA	GG	GG	INTERGENIC			
SNP_85020_A_108210	NW_004516234.1	scaffold875	108210	AA	GG	GG	INTERGENIC			
SNP_85021_A_108216	NW_004516234.1	scaffold875	108216	TT	CC	CC	INTERGENIC			
SNP_85022_A_108229	NW_004516234.1	scaffold875	108229	CC	TT	TT	INTERGENIC			
SNP_85023_A_108344	NW_004516234.1	scaffold875	108344	AA	TT	TT	INTERGENIC			
SNP_85024_A_108407	NW_004516234.1	scaffold875	108407	TT	GG	GG	INTERGENIC			
SNP_85025_A_108429	NW_004516234.1	scaffold875	108429	CC	TT	TT	INTERGENIC			
SNP_85026_A_3766	NW_004516235.1	scaffold876	3766	GG	AA	AA	INTERGENIC			
SNP_85028_A_3929	NW_004516235.1	scaffold876	3929	CC	TT	TT	INTERGENIC			
SNP_85030_A_5373	NW_004516235.1	scaffold876	5373	CC	AA	AA	INTERGENIC			
SNP_85031_A_10543	NW_004516235.1	scaffold876	10543	AA	GG	GG	INTERGENIC			
SNP_85032_A_26054	NW_004516235.1	scaffold876	26054	AA	GG	GG	INTERGENIC			
SNP_85033_A_34006	NW_004516235.1	scaffold876	34006	AA	CC	CC	INTERGENIC			
SNP_85035_A_45322	NW_004516235.1	scaffold876	45322	AA	GG	GG	INTERGENIC			
SNP_85036_A_52903	NW_004516235.1	scaffold876	52903	GG	AA	AA	INTERGENIC			
SNP_85037_A_53521	NW_004516235.1	scaffold876	53521	CC	TT	TT	INTERGENIC			
SNP_85038_A_59893	NW_004516235.1	scaffold876	59893	AA	TT	TT	INTERGENIC			
SNP_85039_A_59900	NW_004516235.1	scaffold876	59900	CC	TT	TT	INTERGENIC			
SNP_85041_A_65361	NW_004516235.1	scaffold876	65361	TT	AA	AA	INTERGENIC			
SNP_85042_A_65408	NW_004516235.1	scaffold876	65408	TT	CC	CC	INTERGENIC			
SNP_85043_A_65459	NW_004516235.1	scaffold876	65459	TT	CC	CC	INTERGENIC			
SNP_85044_A_66909	NW_004516235.1	scaffold876	66909	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85045_A_80458	NW_004516235.1	scaffold876	80458	CC	TT	TT	INTERGENIC		
SNP_85046_A_84656	NW_004516235.1	scaffold876	84656	CC	GG	GG	INTERGENIC		
SNP_85047_A_152094	NW_004516235.1	scaffold876	152094	TT	CC	CC	INTRON	101489931	poly(rC)-binding protein 1-like
SNP_85048_A_152169	NW_004516235.1	scaffold876	152169	CC	AA	AA	INTRON	101489931	poly(rC)-binding protein 1-like
SNP_85049_A_152172	NW_004516235.1	scaffold876	152172	AA	GG	GG	INTRON	101489931	poly(rC)-binding protein 1-like
SNP_85050_A_152211	NW_004516235.1	scaffold876	152211	GG	AA	AA	INTRON	101489931	poly(rC)-binding protein 1-like
SNP_85051_A_155088	NW_004516235.1	scaffold876	155088	TT	CC	CC	INTERGENIC		
SNP_85052_A_159306	NW_004516235.1	scaffold876	159306	AA	GG	GG	DRR	101490264	two-component response regulator ARR9-like
SNP_85053_A_159307	NW_004516235.1	scaffold876	159307	AA	TT	TT	DRR	101490264	two-component response regulator ARR9-like
SNP_85055_A_258302	NW_004516235.1	scaffold876	258302	TT	AA	AA	INTERGENIC		
SNP_85056_A_280167	NW_004516235.1	scaffold876	280167	AA	GG	GG	INTRON	101492074	zinc finger MYM-type protein 1-like
SNP_85057_A_302114	NW_004516235.1	scaffold876	302114	CC	TT	TT	INTERGENIC		
SNP_85058_A_302590	NW_004516235.1	scaffold876	302590	CC	TT	TT	INTERGENIC		
SNP_85059_A_306648	NW_004516235.1	scaffold876	306648	GG	TT	TT	INTERGENIC		
SNP_85060_A_339839	NW_004516235.1	scaffold876	339839	CC	TT	TT	INTERGENIC		
SNP_85061_A_355356	NW_004516235.1	scaffold876	355356	TT	GG	GG	INTERGENIC		
SNP_85062_A_355376	NW_004516235.1	scaffold876	355376	CC	GG	GG	INTERGENIC		
SNP_85063_A_369429	NW_004516235.1	scaffold876	369429	CC	TT	TT	INTERGENIC		
SNP_85064_A_369454	NW_004516235.1	scaffold876	369454	AA	GG	GG	INTERGENIC		
SNP_85065_A_369587	NW_004516235.1	scaffold876	369587	TT	CC	CC	INTERGENIC		
SNP_85066_A_369862	NW_004516235.1	scaffold876	369862	AA	GG	GG	INTERGENIC		
SNP_85067_A_369881	NW_004516235.1	scaffold876	369881	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85068_A_369888	NW_004516235.1	scaffold876	369888	AA	CC	CC	INTERGENIC			
SNP_85069_A_370931	NW_004516235.1	scaffold876	370931	CC	TT	TT	DRR	101493078	Unknown function	
SNP_85070_A_392448	NW_004516235.1	scaffold876	392448	TT	CC	CC	INTERGENIC			
SNP_85071_A_392479	NW_004516235.1	scaffold876	392479	AA	GG	GG	INTERGENIC			
SNP_85072_A_392521	NW_004516235.1	scaffold876	392521	TT	CC	CC	INTERGENIC			
SNP_85073_A_392524	NW_004516235.1	scaffold876	392524	TT	CC	CC	INTERGENIC			
SNP_85074_A_392660	NW_004516235.1	scaffold876	392660	CC	TT	TT	INTERGENIC			
SNP_85075_A_397291	NW_004516235.1	scaffold876	397291	AA	GG	GG	INTERGENIC			
SNP_85076_A_397525	NW_004516235.1	scaffold876	397525	TT	CC	CC	INTERGENIC			
SNP_85077_A_432529	NW_004516235.1	scaffold876	432529	AA	GG	GG	INTERGENIC			
SNP_85078_A_437719	NW_004516235.1	scaffold876	437719	TT	CC	CC	INTERGENIC			
SNP_85079_A_437740	NW_004516235.1	scaffold876	437740	AA	GG	GG	INTERGENIC			
SNP_85080_A_438733	NW_004516235.1	scaffold876	438733	TT	CC	CC	INTERGENIC			
SNP_85081_A_438747	NW_004516235.1	scaffold876	438747	TT	CC	CC	INTERGENIC			
SNP_85082_A_442430	NW_004516235.1	scaffold876	442430	AA	GG	GG	INTERGENIC			
SNP_85083_A_442654	NW_004516235.1	scaffold876	442654	TT	CC	CC	INTERGENIC			
SNP_85084_A_442757	NW_004516235.1	scaffold876	442757	TT	CC	CC	INTERGENIC			
SNP_85085_A_442806	NW_004516235.1	scaffold876	442806	CC	GG	GG	INTERGENIC			
SNP_85086_A_442933	NW_004516235.1	scaffold876	442933	TT	AA	AA	INTERGENIC			
SNP_85087_A_443144	NW_004516235.1	scaffold876	443144	GG	AA	AA	INTERGENIC			
SNP_85088_A_443147	NW_004516235.1	scaffold876	443147	CC	TT	TT	INTERGENIC			
SNP_85089_A_443148	NW_004516235.1	scaffold876	443148	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85090_A_443334	NW_004516235.1	scaffold876	443334	CC	GG	GG	INTERGENIC			
SNP_85091_A_443341	NW_004516235.1	scaffold876	443341	CC	AA	AA	INTERGENIC			
SNP_85092_A_446410	NW_004516235.1	scaffold876	446410	AA	CC	CC	INTERGENIC			
SNP_85093_A_446445	NW_004516235.1	scaffold876	446445	CC	AA	AA	INTERGENIC			
SNP_85094_A_446689	NW_004516235.1	scaffold876	446689	AA	CC	CC	INTERGENIC			
SNP_85095_A_446699	NW_004516235.1	scaffold876	446699	TT	CC	CC	INTERGENIC			
SNP_85096_A_446701	NW_004516235.1	scaffold876	446701	GG	TT	TT	INTERGENIC			
SNP_85097_A_446720	NW_004516235.1	scaffold876	446720	AA	TT	TT	INTERGENIC			
SNP_85098_A_447681	NW_004516235.1	scaffold876	447681	GG	AA	AA	INTERGENIC			
SNP_85099_A_453010	NW_004516235.1	scaffold876	453010	TT	AA	AA	INTERGENIC			
SNP_85100_A_453031	NW_004516235.1	scaffold876	453031	GG	AA	AA	INTERGENIC			
SNP_85101_A_457409	NW_004516235.1	scaffold876	457409	AA	CC	CC	INTERGENIC			
SNP_85102_A_476064	NW_004516235.1	scaffold876	476064	AA	GG	GG	INTERGENIC			
SNP_85103_A_501522	NW_004516235.1	scaffold876	501522	AA	GG	GG	INTERGENIC			
SNP_85104_A_507655	NW_004516235.1	scaffold876	507655	CC	TT	TT	INTERGENIC			
SNP_85105_A_509548	NW_004516235.1	scaffold876	509548	AA	GG	GG	INTERGENIC			
SNP_85106_A_509788	NW_004516235.1	scaffold876	509788	CC	TT	TT	INTERGENIC			
SNP_85107_A_509824	NW_004516235.1	scaffold876	509824	CC	TT	TT	INTERGENIC			
SNP_85108_A_509866	NW_004516235.1	scaffold876	509866	AA	GG	GG	INTERGENIC			
SNP_85109_A_519496	NW_004516235.1	scaffold876	519496	AA	GG	GG	INTERGENIC			
SNP_85110_A_519803	NW_004516235.1	scaffold876	519803	CC	GG	GG	INTERGENIC			
SNP_85111_A_534894	NW_004516235.1	scaffold876	534894	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85112_A_556601	NW_004516235.1	scaffold876	556601	TT	GG	GG	INTERGENIC			
SNP_85113_A_556620	NW_004516235.1	scaffold876	556620	CC	AA	AA	INTERGENIC			
SNP_85114_A_556631	NW_004516235.1	scaffold876	556631	AA	GG	GG	INTERGENIC			
SNP_85115_A_556663	NW_004516235.1	scaffold876	556663	TT	GG	GG	INTERGENIC			
SNP_85116_A_556671	NW_004516235.1	scaffold876	556671	AA	GG	GG	INTERGENIC			
SNP_85117_A_556690	NW_004516235.1	scaffold876	556690	AA	GG	GG	INTERGENIC			
SNP_85118_A_563237	NW_004516235.1	scaffold876	563237	AA	GG	GG	INTERGENIC			
SNP_85119_A_563413	NW_004516235.1	scaffold876	563413	AA	GG	GG	INTERGENIC			
SNP_85120_A_563613	NW_004516235.1	scaffold876	563613	CC	TT	TT	INTERGENIC			
SNP_85121_A_573001	NW_004516235.1	scaffold876	573001	GG	AA	AA	INTERGENIC			
SNP_85123_A_575207	NW_004516235.1	scaffold876	575207	AA	GG	GG	INTERGENIC			
SNP_85124_A_575236	NW_004516235.1	scaffold876	575236	AA	CC	CC	INTERGENIC			
SNP_85125_A_575343	NW_004516235.1	scaffold876	575343	GG	AA	AA	INTERGENIC			
SNP_85126_A_575494	NW_004516235.1	scaffold876	575494	CC	AA	AA	INTERGENIC			
SNP_85127_A_575503	NW_004516235.1	scaffold876	575503	GG	AA	AA	INTERGENIC			
SNP_85128_A_575537	NW_004516235.1	scaffold876	575537	AA	GG	GG	INTERGENIC			
SNP_85129_A_607882	NW_004516235.1	scaffold876	607882	AA	TT	TT	INTERGENIC			
SNP_85130_A_608176	NW_004516235.1	scaffold876	608176	CC	TT	TT	INTERGENIC			
SNP_85131_A_614069	NW_004516235.1	scaffold876	614069	TT	CC	CC	INTERGENIC			
SNP_85132_A_617064	NW_004516235.1	scaffold876	617064	TT	CC	CC	INTERGENIC			
SNP_85134_A_622737	NW_004516235.1	scaffold876	622737	GG	AA	AA	INTERGENIC			
SNP_85135_A_622820	NW_004516235.1	scaffold876	622820	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85136_A_235	NW_004516236.1	scaffold877	235	AA	GG	GG	INTERGENIC		
SNP_85137_A_279	NW_004516236.1	scaffold877	279	GG	CC	CC	INTERGENIC		
SNP_85138_A_692	NW_004516236.1	scaffold877	692	TT	CC	CC	INTERGENIC		
SNP_85139_A_2565	NW_004516236.1	scaffold877	2565	AA	GG	GG	INTERGENIC		
SNP_85140_A_2566	NW_004516236.1	scaffold877	2566	GG	CC	CC	INTERGENIC		
SNP_85141_A_3376	NW_004516236.1	scaffold877	3376	CC	GG	GG	INTERGENIC		
SNP_85142_A_10711	NW_004516236.1	scaffold877	10711	AA	CC	CC	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85143_A_10783	NW_004516236.1	scaffold877	10783	AA	GG	GG	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85145_A_10925	NW_004516236.1	scaffold877	10925	TT	CC	CC	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85146_A_11050	NW_004516236.1	scaffold877	11050	AA	GG	GG	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85147_A_11332	NW_004516236.1	scaffold877	11332	AA	GG	GG	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85148_A_11432	NW_004516236.1	scaffold877	11432	CC	TT	TT	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85149_A_11470	NW_004516236.1	scaffold877	11470	GG	TT	TT	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85150_A_11532	NW_004516236.1	scaffold877	11532	AA	TT	TT	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85151_A_11692	NW_004516236.1	scaffold877	11692	AA	TT	TT	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85152_A_11927	NW_004516236.1	scaffold877	11927	TT	CC	CC	URR	101493404	uridine 5'-monophosphate synthase-like
SNP_85153_A_12748	NW_004516236.1	scaffold877	12748	GG	AA	AA	INTERGENIC		
SNP_85154_A_14530	NW_004516236.1	scaffold877	14530	AA	GG	GG	INTERGENIC		
SNP_85155_A_14692	NW_004516236.1	scaffold877	14692	TT	GG	GG	INTERGENIC		
SNP_85157_A_14906	NW_004516236.1	scaffold877	14906	TT	AA	AA	INTERGENIC		
SNP_85158_A_14908	NW_004516236.1	scaffold877	14908	TT	AA	AA	INTERGENIC		
SNP_85159_A_16839	NW_004516236.1	scaffold877	16839	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85160_A_16884	NW_004516236.1	scaffold877	16884	AA	GG	GG	INTERGENIC		
SNP_85161_A_17392	NW_004516236.1	scaffold877	17392	AA	GG	GG	INTERGENIC		
SNP_85162_A_17525	NW_004516236.1	scaffold877	17525	AA	CC	CC	INTERGENIC		
SNP_85163_A_7719	NW_004516237.1	scaffold878	7719	TT	AA	AA	INTERGENIC		
SNP_85164_A_14119	NW_004516237.1	scaffold878	14119	AA	GG	GG	URR	101493725	Unknown function
SNP_85165_A_14212	NW_004516237.1	scaffold878	14212	TT	CC	CC	URR	101493725	Unknown function
SNP_85166_A_14214	NW_004516237.1	scaffold878	14214	GG	TT	TT	URR	101493725	Unknown function
SNP_85167_A_25208	NW_004516237.1	scaffold878	25208	AA	GG	GG	INTERGENIC		
SNP_85168_A_25236	NW_004516237.1	scaffold878	25236	GG	AA	AA	INTERGENIC		
SNP_85169_A_25265	NW_004516237.1	scaffold878	25265	GG	AA	AA	INTERGENIC		
SNP_85170_A_25466	NW_004516237.1	scaffold878	25466	CC	TT	TT	INTERGENIC		
SNP_85171_A_25822	NW_004516237.1	scaffold878	25822	TT	CC	CC	INTERGENIC		
SNP_85172_A_43087	NW_004516237.1	scaffold878	43087	CC	AA	AA	INTERGENIC		
SNP_85173_A_43135	NW_004516237.1	scaffold878	43135	AA	TT	TT	INTERGENIC		
SNP_85174_A_43383	NW_004516237.1	scaffold878	43383	TT	GG	GG	INTERGENIC		
SNP_85175_A_43555	NW_004516237.1	scaffold878	43555	CC	GG	GG	INTERGENIC		
SNP_85176_A_74934	NW_004516237.1	scaffold878	74934	CC	TT	TT	INTERGENIC		
SNP_85177_A_75018	NW_004516237.1	scaffold878	75018	GG	AA	AA	INTERGENIC		
SNP_85178_A_75028	NW_004516237.1	scaffold878	75028	TT	CC	CC	INTERGENIC		
SNP_85179_A_75052	NW_004516237.1	scaffold878	75052	CC	GG	GG	INTERGENIC		
SNP_85180_A_75063	NW_004516237.1	scaffold878	75063	CC	TT	TT	INTERGENIC		
SNP_85181_A_75076	NW_004516237.1	scaffold878	75076	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85182_A_75281	NW_004516237.1	scaffold878	75281	AA	GG	GG	INTERGENIC		
SNP_85183_A_75337	NW_004516237.1	scaffold878	75337	CC	TT	TT	INTERGENIC		
SNP_85184_A_75364	NW_004516237.1	scaffold878	75364	GG	AA	AA	INTERGENIC		
SNP_85185_A_82782	NW_004516237.1	scaffold878	82782	TT	AA	AA	INTERGENIC		
SNP_85186_A_118300	NW_004516237.1	scaffold878	118300	GG	AA	AA	URR	101494667	uncharacterized LOC101494667
SNP_85187_A_118340	NW_004516237.1	scaffold878	118340	CC	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85188_A_118565	NW_004516237.1	scaffold878	118565	AA	GG	GG	URR	101494667	uncharacterized LOC101494667
SNP_85189_A_118604	NW_004516237.1	scaffold878	118604	CC	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85190_A_118608	NW_004516237.1	scaffold878	118608	CC	AA	AA	URR	101494667	uncharacterized LOC101494667
SNP_85191_A_118682	NW_004516237.1	scaffold878	118682	CC	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85192_A_118833	NW_004516237.1	scaffold878	118833	GG	AA	AA	URR	101494667	uncharacterized LOC101494667
SNP_85193_A_118839	NW_004516237.1	scaffold878	118839	TT	CC	CC	URR	101494667	uncharacterized LOC101494667
SNP_85194_A_118846	NW_004516237.1	scaffold878	118846	AA	GG	GG	URR	101494667	uncharacterized LOC101494667
SNP_85195_A_118897	NW_004516237.1	scaffold878	118897	CC	AA	AA	URR	101494667	uncharacterized LOC101494667
SNP_85196_A_118957	NW_004516237.1	scaffold878	118957	AA	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85197_A_119045	NW_004516237.1	scaffold878	119045	GG	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85198_A_119168	NW_004516237.1	scaffold878	119168	GG	AA	AA	URR	101494667	uncharacterized LOC101494667
SNP_85199_A_119265	NW_004516237.1	scaffold878	119265	AA	GG	GG	URR	101494667	uncharacterized LOC101494667
SNP_85200_A_119267	NW_004516237.1	scaffold878	119267	AA	TT	TT	URR	101494667	uncharacterized LOC101494667
SNP_85201_A_121482	NW_004516237.1	scaffold878	121482	TT	CC	CC	NON_SYNONYMOUS_CODING	101494987	uncharacterized LOC101494987
SNP_85202_A_5351	NW_004516239.1	scaffold882	5351	GG	AA	AA	INTERGENIC		
SNP_85203_A_5362	NW_004516239.1	scaffold882	5362	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85204_A_65982	NW_004516239.1	scaffold882	65982	CC	TT	TT	INTERGENIC		
SNP_85206_A_70563	NW_004516239.1	scaffold882	70563	GG	AA	AA	INTERGENIC		
SNP_85207_A_70602	NW_004516239.1	scaffold882	70602	CC	TT	TT	INTERGENIC		
SNP_85208_A_70616	NW_004516239.1	scaffold882	70616	TT	CC	CC	INTERGENIC		
SNP_85209_A_70645	NW_004516239.1	scaffold882	70645	CC	AA	AA	INTERGENIC		
SNP_85210_A_70652	NW_004516239.1	scaffold882	70652	CC	TT	TT	INTERGENIC		
SNP_85211_A_70663	NW_004516239.1	scaffold882	70663	TT	CC	CC	INTERGENIC		
SNP_85212_A_81077	NW_004516239.1	scaffold882	81077	TT	AA	AA	NON_SYNONYMOUS_CODING	101499043	uncharacterized LOC101499043
SNP_85213_A_81254	NW_004516239.1	scaffold882	81254	CC	AA	AA	NON_SYNONYMOUS_CODING	101499043	uncharacterized LOC101499043
SNP_85214_A_100388	NW_004516239.1	scaffold882	100388	GG	AA	AA	INTRON	101499043	uncharacterized LOC101499043
SNP_85215_A_100415	NW_004516239.1	scaffold882	100415	CC	TT	TT	INTRON	101499043	uncharacterized LOC101499043
SNP_85216_A_100422	NW_004516239.1	scaffold882	100422	AA	CC	CC	INTRON	101499043	uncharacterized LOC101499043
SNP_85217_A_100486	NW_004516239.1	scaffold882	100486	CC	TT	TT	INTRON	101499043	uncharacterized LOC101499043
SNP_85218_A_100551	NW_004516239.1	scaffold882	100551	TT	CC	CC	INTRON	101499043	uncharacterized LOC101499043
SNP_85219_A_100555	NW_004516239.1	scaffold882	100555	AA	TT	TT	INTRON	101499043	uncharacterized LOC101499043
SNP_85220_A_100823	NW_004516239.1	scaffold882	100823	GG	AA	AA	INTRON	101499043	uncharacterized LOC101499043
SNP_85221_A_100833	NW_004516239.1	scaffold882	100833	CC	TT	TT	INTRON	101499043	uncharacterized LOC101499043
SNP_85222_A_100873	NW_004516239.1	scaffold882	100873	TT	CC	CC	INTRON	101499043	uncharacterized LOC101499043
SNP_85223_A_213836	NW_004516239.1	scaffold882	213836	CC	GG	GG	INTERGENIC		
SNP_85224_A_224158	NW_004516239.1	scaffold882	224158	CC	TT	TT	INTERGENIC		
SNP_85225_A_266278	NW_004516239.1	scaffold882	266278	AA	CC	CC	INTERGENIC		
SNP_85226_A_300172	NW_004516239.1	scaffold882	300172	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85230_A_347238	NW_004516239.1	scaffold882	347238	GG	CC	CC	INTERGENIC		
SNP_85231_A_347249	NW_004516239.1	scaffold882	347249	TT	GG	GG	INTERGENIC		
SNP_85232_A_347290	NW_004516239.1	scaffold882	347290	AA	TT	TT	INTERGENIC		
SNP_85233_A_347413	NW_004516239.1	scaffold882	347413	CC	TT	TT	INTERGENIC		
SNP_85234_A_347595	NW_004516239.1	scaffold882	347595	CC	TT	TT	INTERGENIC		
SNP_85235_A_383971	NW_004516239.1	scaffold882	383971	GG	AA	AA	INTERGENIC		
SNP_85236_A_389470	NW_004516239.1	scaffold882	389470	AA	GG	GG	INTERGENIC		
SNP_85237_A_389477	NW_004516239.1	scaffold882	389477	GG	TT	TT	INTERGENIC		
SNP_85238_A_389521	NW_004516239.1	scaffold882	389521	CC	TT	TT	INTERGENIC		
SNP_85239_A_389524	NW_004516239.1	scaffold882	389524	CC	GG	GG	INTERGENIC		
SNP_85240_A_426790	NW_004516239.1	scaffold882	426790	GG	AA	AA	DRR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85241_A_427232	NW_004516239.1	scaffold882	427232	GG	AA	AA	DRR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85242_A_428115	NW_004516239.1	scaffold882	428115	CC	TT	TT	NON_SYNONYMOUS_CODING	101500943	putative uncharacterized protein DDB_G0290521
SNP_85243_A_428187	NW_004516239.1	scaffold882	428187	TT	CC	CC	NON_SYNONYMOUS_CODING	101500943	putative uncharacterized protein DDB_G0290521
SNP_85244_A_428512	NW_004516239.1	scaffold882	428512	AA	GG	GG	URR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85245_A_428861	NW_004516239.1	scaffold882	428861	AA	GG	GG	URR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85246_A_429605	NW_004516239.1	scaffold882	429605	CC	GG	GG	URR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85247_A_429815	NW_004516239.1	scaffold882	429815	GG	AA	AA	URR	101500943	putative uncharacterized protein DDB_G0290521
SNP_85248_A_430625	NW_004516239.1	scaffold882	430625	GG	CC	CC	INTERGENIC		
SNP_85249_A_430701	NW_004516239.1	scaffold882	430701	CC	GG	GG	INTERGENIC		
SNP_85250_A_431694	NW_004516239.1	scaffold882	431694	CC	GG	GG	INTERGENIC		
SNP_85251_A_431971	NW_004516239.1	scaffold882	431971	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85252_A_432226	NW_004516239.1	scaffold882	432226	TT	GG	GG	INTERGENIC		
SNP_85253_A_432229	NW_004516239.1	scaffold882	432229	GG	TT	TT	INTERGENIC		
SNP_85254_A_434547	NW_004516239.1	scaffold882	434547	TT	GG	GG	INTERGENIC		
SNP_85255_A_436494	NW_004516239.1	scaffold882	436494	GG	CC	CC	INTERGENIC		
SNP_85256_A_436497	NW_004516239.1	scaffold882	436497	AA	GG	GG	INTERGENIC		
SNP_85258_A_437604	NW_004516239.1	scaffold882	437604	CC	TT	TT	INTERGENIC		
SNP_85259_A_438431	NW_004516239.1	scaffold882	438431	CC	TT	TT	INTERGENIC		
SNP_85260_A_438647	NW_004516239.1	scaffold882	438647	TT	CC	CC	INTERGENIC		
SNP_85261_A_439019	NW_004516239.1	scaffold882	439019	AA	GG	GG	INTERGENIC		
SNP_85263_A_446972	NW_004516239.1	scaffold882	446972	CC	AA	AA	INTERGENIC		
SNP_85264_A_447929	NW_004516239.1	scaffold882	447929	GG	TT	TT	INTERGENIC		
SNP_85265_A_448346	NW_004516239.1	scaffold882	448346	GG	TT	TT	INTERGENIC		
SNP_85266_A_448717	NW_004516239.1	scaffold882	448717	GG	AA	AA	INTERGENIC		
SNP_85267_A_450561	NW_004516239.1	scaffold882	450561	AA	GG	GG	INTERGENIC		
SNP_85269_A_517441	NW_004516239.1	scaffold882	517441	TT	CC	CC	INTRON	101501268	Unknown function
SNP_85270_A_517442	NW_004516239.1	scaffold882	517442	AA	CC	CC	INTRON	101501268	Unknown function
SNP_85271_A_517453	NW_004516239.1	scaffold882	517453	GG	TT	TT	INTRON	101501268	Unknown function
SNP_85272_A_523007	NW_004516239.1	scaffold882	523007	CC	TT	TT	SYNONYMOUS_CODING	101501268	Unknown function
SNP_85273_A_523371	NW_004516239.1	scaffold882	523371	AA	GG	GG	INTRON	101501268	Unknown function
SNP_85274_A_523449	NW_004516239.1	scaffold882	523449	TT	CC	CC	INTRON	101501268	Unknown function
SNP_85275_A_523478	NW_004516239.1	scaffold882	523478	AA	GG	GG	NON_SYNONYMOUS_CODING	101501268	Unknown function
SNP_85276_A_523493	NW_004516239.1	scaffold882	523493	AA	GG	GG	NON_SYNONYMOUS_CODING	101501268	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85277_A_523500	NW_004516239.1	scaffold882	523500	AA	GG	GG	SYNONYMOUS_CODING	101501268	Unknown function
SNP_85278_A_526163	NW_004516239.1	scaffold882	526163	AA	CC	CC	INTRON	101501268	Unknown function
SNP_85279_A_526173	NW_004516239.1	scaffold882	526173	CC	TT	TT	INTRON	101501268	Unknown function
SNP_85280_A_567597	NW_004516239.1	scaffold882	567597	GG	AA	AA	INTERGENIC		
SNP_85281_A_570077	NW_004516239.1	scaffold882	570077	CC	TT	TT	DRR	101501895	F-box/FBD/LRR-repeat protein At4g26340-like
SNP_85282_A_584580	NW_004516239.1	scaffold882	584580	GG	CC	CC	INTERGENIC		
SNP_85283_A_584586	NW_004516239.1	scaffold882	584586	TT	CC	CC	INTERGENIC		
SNP_85284_A_584604	NW_004516239.1	scaffold882	584604	AA	GG	GG	INTERGENIC		
SNP_85285_A_585117	NW_004516239.1	scaffold882	585117	AA	GG	GG	INTERGENIC		
SNP_85286_A_607467	NW_004516239.1	scaffold882	607467	AA	GG	GG	INTRON	101502222	Unknown function
SNP_85287_A_607494	NW_004516239.1	scaffold882	607494	CC	TT	TT	INTRON	101502222	Unknown function
SNP_85288_A_607506	NW_004516239.1	scaffold882	607506	TT	CC	CC	INTRON	101502222	Unknown function
SNP_85289_A_607533	NW_004516239.1	scaffold882	607533	AA	GG	GG	INTRON	101502222	Unknown function
SNP_85290_A_607562	NW_004516239.1	scaffold882	607562	TT	CC	CC	INTRON	101502222	Unknown function
SNP_85291_A_607783	NW_004516239.1	scaffold882	607783	TT	CC	CC	NON_SYNONYMOUS_CODING	101502222	Unknown function
SNP_85292_A_607789	NW_004516239.1	scaffold882	607789	AA	GG	GG	NON_SYNONYMOUS_CODING	101502222	Unknown function
SNP_85293_A_607888	NW_004516239.1	scaffold882	607888	TT	GG	GG	NON_SYNONYMOUS_CODING	101502222	Unknown function
SNP_85294_A_608868	NW_004516239.1	scaffold882	608868	CC	TT	TT	SYNONYMOUS_CODING	101502222	Unknown function
SNP_85295_A_608874	NW_004516239.1	scaffold882	608874	GG	AA	AA	SYNONYMOUS_CODING	101502222	Unknown function
SNP_85296_A_608904	NW_004516239.1	scaffold882	608904	CC	TT	TT	SYNONYMOUS_CODING	101502222	Unknown function
SNP_85297_A_608912	NW_004516239.1	scaffold882	608912	TT	CC	CC	NON_SYNONYMOUS_CODING	101502222	Unknown function
SNP_85299_A_12216	NW_004516241.1	scaffold884	12216	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85300_A_34498	NW_004516241.1	scaffold884	34498	TT	AA	AA	INTERGENIC			
SNP_85301_A_42931	NW_004516241.1	scaffold884	42931	TT	GG	GG	INTERGENIC			
SNP_85302_A_42932	NW_004516241.1	scaffold884	42932	TT	GG	GG	INTERGENIC			
SNP_85303_A_52525	NW_004516241.1	scaffold884	52525	TT	GG	GG	INTERGENIC			
SNP_85304_A_82938	NW_004516241.1	scaffold884	82938	CC	TT	TT	INTERGENIC			
SNP_85305_A_135329	NW_004516241.1	scaffold884	135329	GG	AA	AA	INTERGENIC			
SNP_85306_A_157815	NW_004516241.1	scaffold884	157815	AA	CC	CC	INTERGENIC			
SNP_85307_A_474	NW_004516242.1	scaffold886	474	GG	TT	TT	INTERGENIC			
SNP_85308_A_487	NW_004516242.1	scaffold886	487	CC	TT	TT	INTERGENIC			
SNP_85309_A_57163	NW_004516242.1	scaffold886	57163	CC	AA	AA	INTERGENIC			
SNP_85310_A_57174	NW_004516242.1	scaffold886	57174	GG	TT	TT	INTERGENIC			
SNP_85311_A_57179	NW_004516242.1	scaffold886	57179	GG	AA	AA	INTERGENIC			
SNP_85312_A_135468	NW_004516242.1	scaffold886	135468	CC	TT	TT	INTERGENIC			
SNP_85313_A_151209	NW_004516242.1	scaffold886	151209	GG	AA	AA	INTERGENIC			
SNP_85315_A_151317	NW_004516242.1	scaffold886	151317	TT	GG	GG	INTERGENIC			
SNP_85316_A_151384	NW_004516242.1	scaffold886	151384	TT	CC	CC	INTERGENIC			
SNP_85317_A_151410	NW_004516242.1	scaffold886	151410	CC	AA	AA	INTERGENIC			
SNP_85319_A_151479	NW_004516242.1	scaffold886	151479	TT	GG	GG	INTERGENIC			
SNP_85320_A_151519	NW_004516242.1	scaffold886	151519	CC	TT	TT	INTERGENIC			
SNP_85321_A_151520	NW_004516242.1	scaffold886	151520	AA	GG	GG	INTERGENIC			
SNP_85322_A_151532	NW_004516242.1	scaffold886	151532	CC	TT	TT	INTERGENIC			
SNP_85323_A_151591	NW_004516242.1	scaffold886	151591	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85324_A_151652	NW_004516242.1	scaffold886	151652	AA	TT	TT	INTERGENIC			
SNP_85325_A_153081	NW_004516242.1	scaffold886	153081	GG	AA	AA	INTERGENIC			
SNP_85326_A_153201	NW_004516242.1	scaffold886	153201	GG	AA	AA	INTERGENIC			
SNP_85327_A_153205	NW_004516242.1	scaffold886	153205	CC	TT	TT	INTERGENIC			
SNP_85328_A_153550	NW_004516242.1	scaffold886	153550	CC	AA	AA	INTERGENIC			
SNP_85329_A_153616	NW_004516242.1	scaffold886	153616	CC	AA	AA	INTERGENIC			
SNP_85330_A_154414	NW_004516242.1	scaffold886	154414	CC	TT	TT	INTERGENIC			
SNP_85331_A_154467	NW_004516242.1	scaffold886	154467	CC	AA	AA	INTERGENIC			
SNP_85332_A_154475	NW_004516242.1	scaffold886	154475	AA	TT	TT	INTERGENIC			
SNP_85333_A_154541	NW_004516242.1	scaffold886	154541	CC	GG	GG	INTERGENIC			
SNP_85334_A_154569	NW_004516242.1	scaffold886	154569	TT	GG	GG	INTERGENIC			
SNP_85335_A_154725	NW_004516242.1	scaffold886	154725	CC	AA	AA	INTERGENIC			
SNP_85336_A_154752	NW_004516242.1	scaffold886	154752	CC	TT	TT	INTERGENIC			
SNP_85337_A_154756	NW_004516242.1	scaffold886	154756	AA	CC	CC	INTERGENIC			
SNP_85338_A_154777	NW_004516242.1	scaffold886	154777	TT	CC	CC	INTERGENIC			
SNP_85339_A_154781	NW_004516242.1	scaffold886	154781	TT	AA	AA	INTERGENIC			
SNP_85340_A_154789	NW_004516242.1	scaffold886	154789	AA	TT	TT	INTERGENIC			
SNP_85341_A_154793	NW_004516242.1	scaffold886	154793	CC	AA	AA	INTERGENIC			
SNP_85342_A_154829	NW_004516242.1	scaffold886	154829	GG	TT	TT	INTERGENIC			
SNP_85343_A_154841	NW_004516242.1	scaffold886	154841	GG	TT	TT	INTERGENIC			
SNP_85344_A_160581	NW_004516242.1	scaffold886	160581	TT	CC	CC	INTERGENIC			
SNP_85345_A_160851	NW_004516242.1	scaffold886	160851	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85346_A_160988	NW_004516242.1	scaffold886	160988	TT	GG	GG	INTERGENIC			
SNP_85347_A_160999	NW_004516242.1	scaffold886	160999	CC	TT	TT	INTERGENIC			
SNP_85348_A_161031	NW_004516242.1	scaffold886	161031	CC	GG	GG	INTERGENIC			
SNP_85349_A_161401	NW_004516242.1	scaffold886	161401	TT	CC	CC	INTERGENIC			
SNP_85350_A_164430	NW_004516242.1	scaffold886	164430	AA	CC	CC	INTERGENIC			
SNP_85352_A_165092	NW_004516242.1	scaffold886	165092	TT	CC	CC	INTERGENIC			
SNP_85353_A_165113	NW_004516242.1	scaffold886	165113	AA	GG	GG	INTERGENIC			
SNP_85354_A_171232	NW_004516242.1	scaffold886	171232	TT	GG	GG	INTERGENIC			
SNP_85355_A_171284	NW_004516242.1	scaffold886	171284	TT	CC	CC	INTERGENIC			
SNP_85356_A_171292	NW_004516242.1	scaffold886	171292	AA	TT	TT	INTERGENIC			
SNP_85357_A_171293	NW_004516242.1	scaffold886	171293	TT	AA	AA	INTERGENIC			
SNP_85358_A_172416	NW_004516242.1	scaffold886	172416	AA	GG	GG	INTERGENIC			
SNP_85359_A_172480	NW_004516242.1	scaffold886	172480	GG	TT	TT	INTERGENIC			
SNP_85360_A_172524	NW_004516242.1	scaffold886	172524	CC	AA	AA	INTERGENIC			
SNP_85361_A_172540	NW_004516242.1	scaffold886	172540	TT	AA	AA	INTERGENIC			
SNP_85363_A_172906	NW_004516242.1	scaffold886	172906	AA	GG	GG	INTERGENIC			
SNP_85364_A_172919	NW_004516242.1	scaffold886	172919	TT	CC	CC	INTERGENIC			
SNP_85366_A_69906	NW_004516243.1	scaffold887_1	69906	AA	GG	GG	INTERGENIC			
SNP_85367_A_69923	NW_004516243.1	scaffold887_1	69923	TT	CC	CC	INTERGENIC			
SNP_85368_A_69924	NW_004516243.1	scaffold887_1	69924	CC	TT	TT	INTERGENIC			
SNP_85369_A_69944	NW_004516243.1	scaffold887_1	69944	TT	CC	CC	INTERGENIC			
SNP_85370_A_70025	NW_004516243.1	scaffold887_1	70025	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85371_A_70033	NW_004516243.1	scaffold887_1	70033	AA	GG	GG	INTERGENIC			
SNP_85372_A_70077	NW_004516243.1	scaffold887_1	70077	AA	CC	CC	INTERGENIC			
SNP_85373_A_70102	NW_004516243.1	scaffold887_1	70102	AA	GG	GG	INTERGENIC			
SNP_85374_A_70108	NW_004516243.1	scaffold887_1	70108	AA	GG	GG	INTERGENIC			
SNP_85375_A_70138	NW_004516243.1	scaffold887_1	70138	TT	AA	AA	INTERGENIC			
SNP_85376_A_70161	NW_004516243.1	scaffold887_1	70161	GG	AA	AA	INTERGENIC			
SNP_85377_A_70164	NW_004516243.1	scaffold887_1	70164	AA	CC	CC	INTERGENIC			
SNP_85378_A_70184	NW_004516243.1	scaffold887_1	70184	AA	CC	CC	INTERGENIC			
SNP_85379_A_70214	NW_004516243.1	scaffold887_1	70214	AA	GG	GG	INTERGENIC			
SNP_85380_A_70238	NW_004516243.1	scaffold887_1	70238	TT	CC	CC	INTERGENIC			
SNP_85381_A_70246	NW_004516243.1	scaffold887_1	70246	GG	AA	AA	INTERGENIC			
SNP_85382_A_70263	NW_004516243.1	scaffold887_1	70263	AA	CC	CC	INTERGENIC			
SNP_85383_A_94206	NW_004516243.1	scaffold887_1	94206	TT	CC	CC	INTERGENIC			
SNP_85384_A_163665	NW_004516243.1	scaffold887_1	163665	AA	GG	GG	NON_SYNONYMOUS_CODING	101508330		cyclin-C1-2-like
SNP_85386_A_200800	NW_004516243.1	scaffold887_1	200800	AA	GG	GG	INTERGENIC			
SNP_85387_A_200911	NW_004516243.1	scaffold887_1	200911	TT	GG	GG	INTERGENIC			
SNP_85388_A_200956	NW_004516243.1	scaffold887_1	200956	CC	GG	GG	INTERGENIC			
SNP_85389_A_200985	NW_004516243.1	scaffold887_1	200985	AA	CC	CC	INTERGENIC			
SNP_85390_A_200994	NW_004516243.1	scaffold887_1	200994	CC	TT	TT	INTERGENIC			
SNP_85391_A_200996	NW_004516243.1	scaffold887_1	200996	AA	GG	GG	INTERGENIC			
SNP_85392_A_201178	NW_004516243.1	scaffold887_1	201178	AA	GG	GG	INTERGENIC			
SNP_85393_A_201187	NW_004516243.1	scaffold887_1	201187	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85395_A_208139	NW_004516243.1	scaffold887_1	208139	AA	TT	TT	INTERGENIC		
SNP_85396_A_208144	NW_004516243.1	scaffold887_1	208144	TT	AA	AA	INTERGENIC		
SNP_85397_A_208145	NW_004516243.1	scaffold887_1	208145	TT	CC	CC	INTERGENIC		
SNP_85398_A_208146	NW_004516243.1	scaffold887_1	208146	TT	AA	AA	INTERGENIC		
SNP_85399_A_208299	NW_004516243.1	scaffold887_1	208299	AA	GG	GG	INTERGENIC		
SNP_85400_A_208480	NW_004516243.1	scaffold887_1	208480	AA	GG	GG	INTERGENIC		
SNP_85401_A_208572	NW_004516243.1	scaffold887_1	208572	GG	AA	AA	INTERGENIC		
SNP_85403_A_246200	NW_004516243.1	scaffold887_1	246200	AA	GG	GG	INTERGENIC		
SNP_85404_A_247358	NW_004516243.1	scaffold887_1	247358	AA	GG	GG	INTERGENIC		
SNP_85405_A_258472	NW_004516243.1	scaffold887_1	258472	CC	TT	TT	NON_SYNONYMOUS_CODING	101512173	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_85406_A_258541	NW_004516243.1	scaffold887_1	258541	GG	CC	CC	NON_SYNONYMOUS_CODING	101512173	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_85407_A_258546	NW_004516243.1	scaffold887_1	258546	CC	AA	AA	NON_SYNONYMOUS_CODING	101512173	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_85408_A_258571	NW_004516243.1	scaffold887_1	258571	TT	CC	CC	NON_SYNONYMOUS_CODING	101512173	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_85409_A_258784	NW_004516243.1	scaffold887_1	258784	AA	TT	TT	SYNONYMOUS_CODING	101512173	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_85410_A_64	NW_004516245.1	scaffold890	64	AA	CC	CC	INTERGENIC		
SNP_85411_A_65	NW_004516245.1	scaffold890	65	AA	GG	GG	INTERGENIC		
SNP_85412_A_266	NW_004516245.1	scaffold890	266	GG	CC	CC	INTERGENIC		
SNP_85413_A_308	NW_004516245.1	scaffold890	308	GG	AA	AA	INTERGENIC		
SNP_85414_A_414	NW_004516245.1	scaffold890	414	CC	TT	TT	INTERGENIC		
SNP_85415_A_415	NW_004516245.1	scaffold890	415	AA	GG	GG	INTERGENIC		
SNP_85416_A_430	NW_004516245.1	scaffold890	430	AA	TT	TT	INTERGENIC		
SNP_85417_A_470	NW_004516245.1	scaffold890	470	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85418_A_482	NW_004516245.1	scaffold890	482	AA	GG	GG	INTERGENIC		
SNP_85419_A_538	NW_004516245.1	scaffold890	538	AA	TT	TT	INTERGENIC		
SNP_85420_A_546	NW_004516245.1	scaffold890	546	TT	AA	AA	INTERGENIC		
SNP_85421_A_653	NW_004516245.1	scaffold890	653	AA	CC	CC	INTERGENIC		
SNP_85422_A_705	NW_004516245.1	scaffold890	705	AA	GG	GG	INTERGENIC		
SNP_85423_A_826	NW_004516245.1	scaffold890	826	AA	TT	TT	INTERGENIC		
SNP_85424_A_872	NW_004516245.1	scaffold890	872	GG	AA	AA	INTERGENIC		
SNP_85426_A_1326	NW_004516245.1	scaffold890	1326	AA	TT	TT	INTERGENIC		
SNP_85427_A_5788	NW_004516247.1	scaffold892	5788	AA	TT	TT	INTERGENIC		
SNP_85428_A_5818	NW_004516247.1	scaffold892	5818	GG	TT	TT	INTERGENIC		
SNP_85429_A_6008	NW_004516247.1	scaffold892	6008	CC	TT	TT	INTERGENIC		
SNP_85430_A_6325	NW_004516247.1	scaffold892	6325	AA	TT	TT	INTERGENIC		
SNP_85431_A_6439	NW_004516247.1	scaffold892	6439	GG	AA	AA	INTERGENIC		
SNP_85432_A_6559	NW_004516247.1	scaffold892	6559	AA	GG	GG	INTERGENIC		
SNP_85433_A_24948	NW_004516247.1	scaffold892	24948	GG	AA	AA	SYNONYMOUS_CODING	101512814	sugar transport protein 10-like
SNP_85434_A_24982	NW_004516247.1	scaffold892	24982	CC	TT	TT	SYNONYMOUS_CODING	101512814	sugar transport protein 10-like
SNP_85435_A_24986	NW_004516247.1	scaffold892	24986	GG	AA	AA	NON_SYNONYMOUS_CODING	101512814	sugar transport protein 10-like
SNP_85436_A_25182	NW_004516247.1	scaffold892	25182	TT	AA	AA	INTRON	101512814	sugar transport protein 10-like
SNP_85437_A_25207	NW_004516247.1	scaffold892	25207	GG	AA	AA	INTRON	101512814	sugar transport protein 10-like
SNP_85438_A_25209	NW_004516247.1	scaffold892	25209	TT	CC	CC	INTRON	101512814	sugar transport protein 10-like
SNP_85439_A_25260	NW_004516247.1	scaffold892	25260	TT	GG	GG	INTRON	101512814	sugar transport protein 10-like
SNP_85440_A_25272	NW_004516247.1	scaffold892	25272	AA	GG	GG	INTRON	101512814	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85441_A_25325	NW_004516247.1	scaffold892	25325	TT	CC	CC	INTRON	101512814	sugar transport protein 10-like
SNP_85442_A_26350	NW_004516247.1	scaffold892	26350	TT	CC	CC	URR	101512814	sugar transport protein 10-like
SNP_85443_A_26357	NW_004516247.1	scaffold892	26357	GG	CC	CC	URR	101512814	sugar transport protein 10-like
SNP_85444_A_26483	NW_004516247.1	scaffold892	26483	AA	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85445_A_26493	NW_004516247.1	scaffold892	26493	AA	CC	CC	URR	101512814	sugar transport protein 10-like
SNP_85446_A_26500	NW_004516247.1	scaffold892	26500	TT	AA	AA	URR	101512814	sugar transport protein 10-like
SNP_85448_A_26640	NW_004516247.1	scaffold892	26640	CC	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85449_A_26678	NW_004516247.1	scaffold892	26678	GG	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85450_A_26679	NW_004516247.1	scaffold892	26679	AA	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85452_A_26725	NW_004516247.1	scaffold892	26725	CC	AA	AA	URR	101512814	sugar transport protein 10-like
SNP_85453_A_26800	NW_004516247.1	scaffold892	26800	TT	AA	AA	URR	101512814	sugar transport protein 10-like
SNP_85454_A_26856	NW_004516247.1	scaffold892	26856	TT	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85455_A_26871	NW_004516247.1	scaffold892	26871	TT	CC	CC	URR	101512814	sugar transport protein 10-like
SNP_85456_A_26890	NW_004516247.1	scaffold892	26890	CC	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85457_A_26964	NW_004516247.1	scaffold892	26964	CC	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85458_A_26975	NW_004516247.1	scaffold892	26975	GG	AA	AA	URR	101512814	sugar transport protein 10-like
SNP_85459_A_27181	NW_004516247.1	scaffold892	27181	TT	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85460_A_27270	NW_004516247.1	scaffold892	27270	TT	CC	CC	URR	101512814	sugar transport protein 10-like
SNP_85461_A_27315	NW_004516247.1	scaffold892	27315	TT	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85462_A_27376	NW_004516247.1	scaffold892	27376	CC	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85463_A_27389	NW_004516247.1	scaffold892	27389	TT	AA	AA	URR	101512814	sugar transport protein 10-like
SNP_85464_A_27431	NW_004516247.1	scaffold892	27431	AA	CC	CC	URR	101512814	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85465_A_27491	NW_004516247.1	scaffold892	27491	CC	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85466_A_27603	NW_004516247.1	scaffold892	27603	AA	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85467_A_27605	NW_004516247.1	scaffold892	27605	CC	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85468_A_27680	NW_004516247.1	scaffold892	27680	AA	GG	GG	URR	101512814	sugar transport protein 10-like
SNP_85469_A_27719	NW_004516247.1	scaffold892	27719	AA	TT	TT	URR	101512814	sugar transport protein 10-like
SNP_85470_A_28128	NW_004516247.1	scaffold892	28128	GG	TT	TT	INTERGENIC		
SNP_85471_A_28212	NW_004516247.1	scaffold892	28212	TT	AA	AA	INTERGENIC		
SNP_85472_A_28262	NW_004516247.1	scaffold892	28262	TT	CC	CC	INTERGENIC		
SNP_85473_A_28419	NW_004516247.1	scaffold892	28419	TT	CC	CC	INTERGENIC		
SNP_85475_A_29952	NW_004516247.1	scaffold892	29952	GG	AA	AA	INTERGENIC		
SNP_85476_A_30275	NW_004516247.1	scaffold892	30275	AA	TT	TT	INTERGENIC		
SNP_85477_A_30331	NW_004516247.1	scaffold892	30331	TT	CC	CC	INTERGENIC		
SNP_85478_A_30377	NW_004516247.1	scaffold892	30377	AA	GG	GG	INTERGENIC		
SNP_85479_A_30395	NW_004516247.1	scaffold892	30395	AA	TT	TT	INTERGENIC		
SNP_85480_A_32554	NW_004516247.1	scaffold892	32554	TT	CC	CC	INTERGENIC		
SNP_85481_A_32627	NW_004516247.1	scaffold892	32627	CC	AA	AA	INTERGENIC		
SNP_85482_A_32663	NW_004516247.1	scaffold892	32663	TT	AA	AA	INTERGENIC		
SNP_85483_A_32700	NW_004516247.1	scaffold892	32700	GG	AA	AA	INTERGENIC		
SNP_85484_A_32752	NW_004516247.1	scaffold892	32752	TT	GG	GG	INTERGENIC		
SNP_85485_A_32804	NW_004516247.1	scaffold892	32804	TT	GG	GG	INTERGENIC		
SNP_85486_A_32884	NW_004516247.1	scaffold892	32884	TT	AA	AA	INTERGENIC		
SNP_85487_A_32939	NW_004516247.1	scaffold892	32939	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85488_A_32969	NW_004516247.1	scaffold892	32969	TT	GG	GG	INTERGENIC			
SNP_85489_A_32976	NW_004516247.1	scaffold892	32976	GG	AA	AA	INTERGENIC			
SNP_85490_A_33008	NW_004516247.1	scaffold892	33008	CC	TT	TT	INTERGENIC			
SNP_85491_A_33015	NW_004516247.1	scaffold892	33015	TT	CC	CC	INTERGENIC			
SNP_85492_A_33017	NW_004516247.1	scaffold892	33017	AA	CC	CC	INTERGENIC			
SNP_85493_A_33068	NW_004516247.1	scaffold892	33068	GG	CC	CC	INTERGENIC			
SNP_85494_A_33137	NW_004516247.1	scaffold892	33137	TT	GG	GG	INTERGENIC			
SNP_85495_A_33159	NW_004516247.1	scaffold892	33159	TT	AA	AA	INTERGENIC			
SNP_85496_A_33161	NW_004516247.1	scaffold892	33161	TT	GG	GG	INTERGENIC			
SNP_85497_A_33178	NW_004516247.1	scaffold892	33178	TT	CC	CC	INTERGENIC			
SNP_85498_A_33192	NW_004516247.1	scaffold892	33192	AA	GG	GG	INTERGENIC			
SNP_85499_A_33216	NW_004516247.1	scaffold892	33216	GG	AA	AA	INTERGENIC			
SNP_85500_A_33217	NW_004516247.1	scaffold892	33217	GG	TT	TT	INTERGENIC			
SNP_85501_A_33261	NW_004516247.1	scaffold892	33261	TT	CC	CC	INTERGENIC			
SNP_85502_A_33295	NW_004516247.1	scaffold892	33295	GG	AA	AA	INTERGENIC			
SNP_85503_A_33310	NW_004516247.1	scaffold892	33310	TT	CC	CC	INTERGENIC			
SNP_85504_A_33391	NW_004516247.1	scaffold892	33391	TT	AA	AA	INTERGENIC			
SNP_85505_A_33539	NW_004516247.1	scaffold892	33539	TT	CC	CC	INTERGENIC			
SNP_85508_A_33888	NW_004516247.1	scaffold892	33888	CC	TT	TT	INTERGENIC			
SNP_85509_A_33923	NW_004516247.1	scaffold892	33923	CC	TT	TT	INTERGENIC			
SNP_85510_A_34187	NW_004516247.1	scaffold892	34187	GG	TT	TT	DRR	101513144	sugar transport protein 4-like	
SNP_85511_A_34244	NW_004516247.1	scaffold892	34244	AA	TT	TT	DRR	101513144	sugar transport protein 4-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85512_A_34329	NW_004516247.1	scaffold892	34329	TT	CC	CC	DRR	101513144	sugar transport protein 4-like
SNP_85513_A_34412	NW_004516247.1	scaffold892	34412	GG	AA	AA	DRR	101513144	sugar transport protein 4-like
SNP_85514_A_34435	NW_004516247.1	scaffold892	34435	TT	GG	GG	DRR	101513144	sugar transport protein 4-like
SNP_85515_A_34570	NW_004516247.1	scaffold892	34570	TT	CC	CC	DRR	101513144	sugar transport protein 4-like
SNP_85516_A_34581	NW_004516247.1	scaffold892	34581	AA	GG	GG	DRR	101513144	sugar transport protein 4-like
SNP_85517_A_34588	NW_004516247.1	scaffold892	34588	GG	CC	CC	DRR	101513144	sugar transport protein 4-like
SNP_85518_A_34615	NW_004516247.1	scaffold892	34615	AA	GG	GG	DRR	101513144	sugar transport protein 4-like
SNP_85519_A_34630	NW_004516247.1	scaffold892	34630	TT	AA	AA	DRR	101513144	sugar transport protein 4-like
SNP_85520_A_34702	NW_004516247.1	scaffold892	34702	CC	TT	TT	DRR	101513144	sugar transport protein 4-like
SNP_85521_A_34703	NW_004516247.1	scaffold892	34703	CC	TT	TT	DRR	101513144	sugar transport protein 4-like
SNP_85522_A_35109	NW_004516247.1	scaffold892	35109	AA	CC	CC	DRR	101513144	sugar transport protein 4-like
SNP_85523_A_35219	NW_004516247.1	scaffold892	35219	GG	AA	AA	SYNONYMOUS_CODING	101513144	sugar transport protein 4-like
SNP_85524_A_35222	NW_004516247.1	scaffold892	35222	CC	AA	AA	NON_SYNONYMOUS_CODING	101513144	sugar transport protein 4-like
SNP_85525_A_36821	NW_004516247.1	scaffold892	36821	GG	AA	AA	URR	101513144	sugar transport protein 4-like
SNP_85526_A_37080	NW_004516247.1	scaffold892	37080	CC	GG	GG	URR	101513144	sugar transport protein 4-like
SNP_85527_A_37265	NW_004516247.1	scaffold892	37265	GG	AA	AA	URR	101513144	sugar transport protein 4-like
SNP_85528_A_38045	NW_004516247.1	scaffold892	38045	GG	TT	TT	INTERGENIC		
SNP_85529_A_38060	NW_004516247.1	scaffold892	38060	TT	AA	AA	INTERGENIC		
SNP_85531_A_38496	NW_004516247.1	scaffold892	38496	CC	TT	TT	INTERGENIC		
SNP_85532_A_38793	NW_004516247.1	scaffold892	38793	TT	CC	CC	INTERGENIC		
SNP_85533_A_38942	NW_004516247.1	scaffold892	38942	TT	GG	GG	INTERGENIC		
SNP_85534_A_40471	NW_004516247.1	scaffold892	40471	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85535_A_40713	NW_004516247.1	scaffold892	40713	TT	AA	AA	INTERGENIC			
SNP_85536_A_42514	NW_004516247.1	scaffold892	42514	AA	GG	GG	INTERGENIC			
SNP_85538_A_44009	NW_004516247.1	scaffold892	44009	TT	CC	CC	INTERGENIC			
SNP_85539_A_44197	NW_004516247.1	scaffold892	44197	AA	TT	TT	INTERGENIC			
SNP_85541_A_44478	NW_004516247.1	scaffold892	44478	AA	GG	GG	INTERGENIC			
SNP_85542_A_46301	NW_004516247.1	scaffold892	46301	TT	GG	GG	INTERGENIC			
SNP_85543_A_46668	NW_004516247.1	scaffold892	46668	TT	CC	CC	INTERGENIC			
SNP_85544_A_50685	NW_004516247.1	scaffold892	50685	AA	GG	GG	INTERGENIC			
SNP_85546_A_59657	NW_004516247.1	scaffold892	59657	CC	TT	TT	INTERGENIC			
SNP_85548_A_60741	NW_004516247.1	scaffold892	60741	AA	GG	GG	INTERGENIC			
SNP_85549_A_1353	NW_004516248.1	scaffold893	1353	GG	AA	AA	INTERGENIC			
SNP_85550_A_1552	NW_004516248.1	scaffold893	1552	CC	TT	TT	INTERGENIC			
SNP_85551_A_1633	NW_004516248.1	scaffold893	1633	AA	TT	CC	INTERGENIC			
SNP_85552_A_1634	NW_004516248.1	scaffold893	1634	AA	GG	GG	INTERGENIC			
SNP_85553_A_1637	NW_004516248.1	scaffold893	1637	AA	GG	GG	INTERGENIC			
SNP_85554_A_1849	NW_004516248.1	scaffold893	1849	AA	TT	TT	INTERGENIC			
SNP_85555_A_1862	NW_004516248.1	scaffold893	1862	TT	CC	CC	INTERGENIC			
SNP_85556_A_1872	NW_004516248.1	scaffold893	1872	TT	AA	AA	INTERGENIC			
SNP_85557_A_1884	NW_004516248.1	scaffold893	1884	GG	AA	AA	INTERGENIC			
SNP_85558_A_1894	NW_004516248.1	scaffold893	1894	TT	CC	CC	INTERGENIC			
SNP_85559_A_2222	NW_004516248.1	scaffold893	2222	GG	AA	AA	INTERGENIC			
SNP_85560_A_2247	NW_004516248.1	scaffold893	2247	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85561_A_2328	NW_004516248.1	scaffold893	2328	AA	GG	GG	INTERGENIC			
SNP_85562_A_2349	NW_004516248.1	scaffold893	2349	CC	TT	TT	INTERGENIC			
SNP_85563_A_2361	NW_004516248.1	scaffold893	2361	GG	TT	TT	INTERGENIC			
SNP_85564_A_2367	NW_004516248.1	scaffold893	2367	AA	CC	CC	INTERGENIC			
SNP_85565_A_2377	NW_004516248.1	scaffold893	2377	TT	CC	CC	INTERGENIC			
SNP_85566_A_2380	NW_004516248.1	scaffold893	2380	CC	TT	TT	INTERGENIC			
SNP_85567_A_2426	NW_004516248.1	scaffold893	2426	AA	GG	GG	INTERGENIC			
SNP_85568_A_2427	NW_004516248.1	scaffold893	2427	TT	CC	CC	INTERGENIC			
SNP_85569_A_2434	NW_004516248.1	scaffold893	2434	TT	CC	CC	INTERGENIC			
SNP_85570_A_2459	NW_004516248.1	scaffold893	2459	TT	CC	CC	INTERGENIC			
SNP_85572_A_9816	NW_004516248.1	scaffold893	9816	CC	AA	AA	INTERGENIC			
SNP_85573_A_10322	NW_004516248.1	scaffold893	10322	AA	CC	CC	INTERGENIC			
SNP_85574_A_10326	NW_004516248.1	scaffold893	10326	GG	AA	AA	INTERGENIC			
SNP_85575_A_10861	NW_004516248.1	scaffold893	10861	AA	GG	GG	INTERGENIC			
SNP_85577_A_20500	NW_004516248.1	scaffold893	20500	CC	TT	TT	INTERGENIC			
SNP_85578_A_21039	NW_004516248.1	scaffold893	21039	AA	TT	TT	INTERGENIC			
SNP_85579_A_21040	NW_004516248.1	scaffold893	21040	GG	TT	TT	INTERGENIC			
SNP_85580_A_21131	NW_004516248.1	scaffold893	21131	GG	AA	AA	INTERGENIC			
SNP_85581_A_73854	NW_004516250.1	scaffold895	73854	GG	AA	AA	INTERGENIC			
SNP_85582_A_83689	NW_004516250.1	scaffold895	83689	TT	CC	CC	URR	101515322	beta-glucosidase 12-like	
SNP_85584_A_107670	NW_004516250.1	scaffold895	107670	GG	TT	TT	INTRON	101489175	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like	
SNP_85585_A_107768	NW_004516250.1	scaffold895	107768	AA	GG	GG	INTRON	101489175	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85586_A_110097	NW_004516250.1	scaffold895	110097	TT	GG	GG	URR	101488960	uncharacterized LOC101488960
SNP_85587_A_115870	NW_004516250.1	scaffold895	115870	CC	AA	AA	URR	101489175	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_85588_A_115874	NW_004516250.1	scaffold895	115874	GG	TT	TT	URR	101489175	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_85589_A_115888	NW_004516250.1	scaffold895	115888	TT	AA	AA	URR	101489175	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_85590_A_127149	NW_004516250.1	scaffold895	127149	CC	TT	TT	INTERGENIC		
SNP_85591_A_145841	NW_004516250.1	scaffold895	145841	GG	TT	TT	INTERGENIC		
SNP_85592_A_3139	NW_004516251.1	scaffold896	3139	GG	CC	CC	INTERGENIC		
SNP_85595_A_14484	NW_004516251.1	scaffold896	14484	CC	TT	TT	INTERGENIC		
SNP_85596_A_14512	NW_004516251.1	scaffold896	14512	AA	GG	GG	INTERGENIC		
SNP_85597_A_14514	NW_004516251.1	scaffold896	14514	TT	AA	AA	INTERGENIC		
SNP_85598_A_14622	NW_004516251.1	scaffold896	14622	TT	CC	CC	INTERGENIC		
SNP_85599_A_14625	NW_004516251.1	scaffold896	14625	TT	CC	CC	INTERGENIC		
SNP_85601_A_14687	NW_004516251.1	scaffold896	14687	TT	CC	CC	INTERGENIC		
SNP_85602_A_14691	NW_004516251.1	scaffold896	14691	TT	CC	CC	INTERGENIC		
SNP_85603_A_14722	NW_004516251.1	scaffold896	14722	TT	CC	CC	INTERGENIC		
SNP_85604_A_14800	NW_004516251.1	scaffold896	14800	CC	TT	TT	INTERGENIC		
SNP_85605_A_14807	NW_004516251.1	scaffold896	14807	TT	CC	CC	INTERGENIC		
SNP_85606_A_14817	NW_004516251.1	scaffold896	14817	CC	GG	GG	INTERGENIC		
SNP_85607_A_15566	NW_004516251.1	scaffold896	15566	CC	TT	TT	INTERGENIC		
SNP_85608_A_15580	NW_004516251.1	scaffold896	15580	GG	AA	AA	INTERGENIC		
SNP_85609_A_15584	NW_004516251.1	scaffold896	15584	GG	AA	AA	INTERGENIC		
SNP_85610_A_15604	NW_004516251.1	scaffold896	15604	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85611_A_15614	NW_004516251.1	scaffold896	15614	TT	CC	CC	INTERGENIC			
SNP_85612_A_15665	NW_004516251.1	scaffold896	15665	CC	AA	AA	INTERGENIC			
SNP_85613_A_15676	NW_004516251.1	scaffold896	15676	AA	GG	GG	INTERGENIC			
SNP_85614_A_15700	NW_004516251.1	scaffold896	15700	TT	CC	CC	INTERGENIC			
SNP_85615_A_15731	NW_004516251.1	scaffold896	15731	AA	GG	GG	INTERGENIC			
SNP_85616_A_22192	NW_004516251.1	scaffold896	22192	TT	GG	GG	INTERGENIC			
SNP_85617_A_22197	NW_004516251.1	scaffold896	22197	AA	TT	TT	INTERGENIC			
SNP_85618_A_22546	NW_004516251.1	scaffold896	22546	AA	GG	GG	INTERGENIC			
SNP_85619_A_22549	NW_004516251.1	scaffold896	22549	CC	GG	GG	INTERGENIC			
SNP_85620_A_22584	NW_004516251.1	scaffold896	22584	GG	TT	TT	INTERGENIC			
SNP_85621_A_38176	NW_004516251.1	scaffold896	38176	AA	CC	CC	INTERGENIC			
SNP_85623_A_49258	NW_004516251.1	scaffold896	49258	AA	CC	CC	INTERGENIC			
SNP_85624_A_49260	NW_004516251.1	scaffold896	49260	AA	GG	GG	INTERGENIC			
SNP_85625_A_49261	NW_004516251.1	scaffold896	49261	TT	AA	AA	INTERGENIC			
SNP_85626_A_49274	NW_004516251.1	scaffold896	49274	GG	TT	TT	INTERGENIC			
SNP_85627_A_57359	NW_004516251.1	scaffold896	57359	TT	CC	CC	INTERGENIC			
SNP_85628_A_57360	NW_004516251.1	scaffold896	57360	AA	CC	CC	INTERGENIC			
SNP_85629_A_57362	NW_004516251.1	scaffold896	57362	AA	TT	TT	INTERGENIC			
SNP_85630_A_57367	NW_004516251.1	scaffold896	57367	GG	AA	AA	INTERGENIC			
SNP_85631_A_57376	NW_004516251.1	scaffold896	57376	TT	AA	AA	INTERGENIC			
SNP_85632_A_58906	NW_004516251.1	scaffold896	58906	GG	TT	TT	INTERGENIC			
SNP_85633_A_63054	NW_004516251.1	scaffold896	63054	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85634_A_63390	NW_004516251.1	scaffold896	63390	CC	TT	TT	INTERGENIC			
SNP_85635_A_63655	NW_004516251.1	scaffold896	63655	CC	TT	TT	INTERGENIC			
SNP_85637_A_27653	NW_004516253.1	scaffold898	27653	TT	CC	CC	INTERGENIC			
SNP_85639_A_27677	NW_004516253.1	scaffold898	27677	CC	TT	TT	INTERGENIC			
SNP_85640_A_248	NW_004516255.1	scaffold900	248	TT	CC	CC	INTERGENIC			
SNP_85642_A_13444	NW_004516255.1	scaffold900	13444	CC	TT	TT	INTERGENIC			
SNP_85643_A_13499	NW_004516255.1	scaffold900	13499	TT	AA	AA	INTERGENIC			
SNP_85644_A_13529	NW_004516255.1	scaffold900	13529	GG	AA	AA	INTERGENIC			
SNP_85645_A_13761	NW_004516255.1	scaffold900	13761	AA	TT	TT	INTERGENIC			
SNP_85646_A_13785	NW_004516255.1	scaffold900	13785	CC	TT	TT	INTERGENIC			
SNP_85647_A_13786	NW_004516255.1	scaffold900	13786	CC	TT	TT	INTERGENIC			
SNP_85648_A_13795	NW_004516255.1	scaffold900	13795	GG	AA	AA	INTERGENIC			
SNP_85649_A_13812	NW_004516255.1	scaffold900	13812	AA	CC	CC	INTERGENIC			
SNP_85650_A_14880	NW_004516255.1	scaffold900	14880	TT	CC	CC	INTERGENIC			
SNP_85651_A_15031	NW_004516255.1	scaffold900	15031	GG	CC	CC	INTERGENIC			
SNP_85652_A_22681	NW_004516255.1	scaffold900	22681	TT	CC	CC	INTERGENIC			
SNP_85653_A_29357	NW_004516255.1	scaffold900	29357	TT	CC	CC	INTERGENIC			
SNP_85654_A_29495	NW_004516255.1	scaffold900	29495	GG	AA	AA	INTERGENIC			
SNP_85655_A_29543	NW_004516255.1	scaffold900	29543	TT	AA	AA	INTERGENIC			
SNP_85656_A_29604	NW_004516255.1	scaffold900	29604	CC	TT	TT	INTERGENIC			
SNP_85657_A_29633	NW_004516255.1	scaffold900	29633	GG	TT	TT	INTERGENIC			
SNP_85658_A_29648	NW_004516255.1	scaffold900	29648	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85659_A_29667	NW_004516255.1	scaffold900	29667	TT	CC	CC	INTERGENIC			
SNP_85660_A_36557	NW_004516255.1	scaffold900	36557	CC	GG	GG	INTERGENIC			
SNP_85661_A_36680	NW_004516255.1	scaffold900	36680	AA	TT	TT	INTERGENIC			
SNP_85662_A_36681	NW_004516255.1	scaffold900	36681	CC	TT	TT	INTERGENIC			
SNP_85663_A_36889	NW_004516255.1	scaffold900	36889	TT	CC	CC	INTERGENIC			
SNP_85664_A_36924	NW_004516255.1	scaffold900	36924	GG	AA	AA	INTERGENIC			
SNP_85665_A_36968	NW_004516255.1	scaffold900	36968	AA	CC	CC	INTERGENIC			
SNP_85666_A_36971	NW_004516255.1	scaffold900	36971	GG	TT	TT	INTERGENIC			
SNP_85667_A_36981	NW_004516255.1	scaffold900	36981	TT	AA	AA	INTERGENIC			
SNP_85668_A_37025	NW_004516255.1	scaffold900	37025	GG	CC	CC	INTERGENIC			
SNP_85669_A_39140	NW_004516255.1	scaffold900	39140	TT	CC	CC	INTERGENIC			
SNP_85670_A_41397	NW_004516255.1	scaffold900	41397	TT	GG	GG	INTERGENIC			
SNP_85671_A_41421	NW_004516255.1	scaffold900	41421	TT	CC	CC	INTERGENIC			
SNP_85672_A_41442	NW_004516255.1	scaffold900	41442	CC	TT	TT	INTERGENIC			
SNP_85673_A_41496	NW_004516255.1	scaffold900	41496	AA	CC	CC	INTERGENIC			
SNP_85674_A_41527	NW_004516255.1	scaffold900	41527	TT	AA	AA	INTERGENIC			
SNP_85675_A_41576	NW_004516255.1	scaffold900	41576	GG	TT	TT	INTERGENIC			
SNP_85676_A_41616	NW_004516255.1	scaffold900	41616	TT	CC	CC	INTERGENIC			
SNP_85677_A_41666	NW_004516255.1	scaffold900	41666	GG	CC	CC	INTERGENIC			
SNP_85678_A_41714	NW_004516255.1	scaffold900	41714	GG	CC	CC	INTERGENIC			
SNP_85679_A_41768	NW_004516255.1	scaffold900	41768	TT	AA	AA	INTERGENIC			
SNP_85680_A_41789	NW_004516255.1	scaffold900	41789	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85681_A_41821	NW_004516255.1	scaffold900	41821	TT	GG	GG	INTERGENIC			
SNP_85682_A_42089	NW_004516255.1	scaffold900	42089	CC	TT	TT	INTERGENIC			
SNP_85683_A_42130	NW_004516255.1	scaffold900	42130	GG	CC	CC	INTERGENIC			
SNP_85684_A_42138	NW_004516255.1	scaffold900	42138	AA	GG	GG	INTERGENIC			
SNP_85685_A_42183	NW_004516255.1	scaffold900	42183	TT	CC	CC	INTERGENIC			
SNP_85686_A_42285	NW_004516255.1	scaffold900	42285	TT	AA	AA	INTERGENIC			
SNP_85687_A_42349	NW_004516255.1	scaffold900	42349	TT	AA	AA	INTERGENIC			
SNP_85688_A_42419	NW_004516255.1	scaffold900	42419	GG	TT	TT	INTERGENIC			
SNP_85689_A_42432	NW_004516255.1	scaffold900	42432	AA	TT	TT	INTERGENIC			
SNP_85690_A_42536	NW_004516255.1	scaffold900	42536	AA	GG	GG	INTERGENIC			
SNP_85691_A_42537	NW_004516255.1	scaffold900	42537	GG	TT	TT	INTERGENIC			
SNP_85692_A_42732	NW_004516255.1	scaffold900	42732	CC	TT	TT	INTERGENIC			
SNP_85693_A_42734	NW_004516255.1	scaffold900	42734	GG	TT	TT	INTERGENIC			
SNP_85694_A_42786	NW_004516255.1	scaffold900	42786	CC	GG	GG	INTERGENIC			
SNP_85695_A_42901	NW_004516255.1	scaffold900	42901	TT	AA	AA	INTERGENIC			
SNP_85696_A_42989	NW_004516255.1	scaffold900	42989	GG	CC	CC	INTERGENIC			
SNP_85697_A_43377	NW_004516255.1	scaffold900	43377	GG	TT	TT	INTERGENIC			
SNP_85698_A_45462	NW_004516255.1	scaffold900	45462	TT	AA	AA	INTERGENIC			
SNP_85699_A_45463	NW_004516255.1	scaffold900	45463	GG	AA	AA	INTERGENIC			
SNP_85700_A_45533	NW_004516255.1	scaffold900	45533	TT	GG	GG	INTERGENIC			
SNP_85701_A_46918	NW_004516255.1	scaffold900	46918	GG	TT	TT	INTERGENIC			
SNP_85702_A_46989	NW_004516255.1	scaffold900	46989	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85703_A_47149	NW_004516255.1	scaffold900	47149	TT	CC	CC	INTERGENIC			
SNP_85704_A_47193	NW_004516255.1	scaffold900	47193	CC	GG	GG	INTERGENIC			
SNP_85705_A_47407	NW_004516255.1	scaffold900	47407	GG	AA	AA	INTERGENIC			
SNP_85706_A_47428	NW_004516255.1	scaffold900	47428	CC	TT	TT	INTERGENIC			
SNP_85707_A_47430	NW_004516255.1	scaffold900	47430	AA	TT	TT	INTERGENIC			
SNP_85708_A_47441	NW_004516255.1	scaffold900	47441	AA	CC	CC	INTERGENIC			
SNP_85709_A_47672	NW_004516255.1	scaffold900	47672	AA	CC	CC	INTERGENIC			
SNP_85710_A_47889	NW_004516255.1	scaffold900	47889	TT	CC	CC	INTERGENIC			
SNP_85711_A_50194	NW_004516255.1	scaffold900	50194	CC	TT	TT	INTERGENIC			
SNP_85712_A_50907	NW_004516255.1	scaffold900	50907	TT	AA	AA	INTERGENIC			
SNP_85713_A_51241	NW_004516255.1	scaffold900	51241	TT	CC	CC	INTERGENIC			
SNP_85714_A_51320	NW_004516255.1	scaffold900	51320	CC	TT	TT	INTERGENIC			
SNP_85715_A_19857	NW_004516256.1	scaffold901	19857	CC	TT	TT	INTERGENIC			
SNP_85716_A_20250	NW_004516256.1	scaffold901	20250	GG	CC	CC	INTERGENIC			
SNP_85717_A_20258	NW_004516256.1	scaffold901	20258	GG	AA	AA	INTERGENIC			
SNP_85718_A_20278	NW_004516256.1	scaffold901	20278	AA	GG	GG	INTERGENIC			
SNP_85719_A_23845	NW_004516256.1	scaffold901	23845	TT	AA	AA	INTERGENIC			
SNP_85720_A_23882	NW_004516256.1	scaffold901	23882	AA	GG	GG	INTERGENIC			
SNP_85721_A_23901	NW_004516256.1	scaffold901	23901	AA	GG	GG	INTERGENIC			
SNP_85722_A_23912	NW_004516256.1	scaffold901	23912	TT	AA	AA	INTERGENIC			
SNP_85723_A_23928	NW_004516256.1	scaffold901	23928	TT	AA	AA	INTERGENIC			
SNP_85724_A_23948	NW_004516256.1	scaffold901	23948	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85725_A_23950	NW_004516256.1	scaffold901	23950	TT	CC	CC	INTERGENIC			
SNP_85726_A_28769	NW_004516256.1	scaffold901	28769	AA	GG	GG	INTERGENIC			
SNP_85727_A_46297	NW_004516256.1	scaffold901	46297	GG	AA	AA	INTERGENIC			
SNP_85728_A_46303	NW_004516256.1	scaffold901	46303	TT	CC	CC	INTERGENIC			
SNP_85729_A_46352	NW_004516256.1	scaffold901	46352	GG	AA	AA	INTERGENIC			
SNP_85730_A_69537	NW_004516256.1	scaffold901	69537	TT	CC	CC	INTERGENIC			
SNP_85731_A_70509	NW_004516256.1	scaffold901	70509	GG	TT	TT	DRR	101492965	Unknown function	
SNP_85732_A_112983	NW_004516256.1	scaffold901	112983	GG	TT	TT	INTERGENIC			
SNP_85733_A_120971	NW_004516256.1	scaffold901	120971	TT	GG	GG	INTERGENIC			
SNP_85734_A_143121	NW_004516256.1	scaffold901	143121	AA	GG	GG	INTERGENIC			
SNP_85735_A_143124	NW_004516256.1	scaffold901	143124	CC	TT	TT	INTERGENIC			
SNP_85736_A_183101	NW_004516256.1	scaffold901	183101	CC	TT	TT	INTERGENIC			
SNP_85737_A_199331	NW_004516256.1	scaffold901	199331	AA	TT	TT	INTERGENIC			
SNP_85738_A_199363	NW_004516256.1	scaffold901	199363	AA	GG	GG	INTERGENIC			
SNP_85739_A_199430	NW_004516256.1	scaffold901	199430	CC	GG	GG	INTERGENIC			
SNP_85740_A_199741	NW_004516256.1	scaffold901	199741	CC	AA	AA	INTERGENIC			
SNP_85741_A_199742	NW_004516256.1	scaffold901	199742	TT	CC	CC	INTERGENIC			
SNP_85742_A_221877	NW_004516256.1	scaffold901	221877	AA	GG	GG	INTERGENIC			
SNP_85743_A_229453	NW_004516256.1	scaffold901	229453	CC	TT	TT	INTERGENIC			
SNP_85745_A_233559	NW_004516256.1	scaffold901	233559	TT	AA	AA	INTERGENIC			
SNP_85746_A_233560	NW_004516256.1	scaffold901	233560	GG	TT	TT	INTERGENIC			
SNP_85747_A_236041	NW_004516256.1	scaffold901	236041	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85748_A_325	NW_004516258.1	scaffold904	325	CC	TT	TT	INTERGENIC			
SNP_85749_A_9848	NW_004516258.1	scaffold904	9848	TT	CC	CC	INTERGENIC			
SNP_85750_A_11632	NW_004516258.1	scaffold904	11632	CC	TT	TT	INTERGENIC			
SNP_85751_A_11648	NW_004516258.1	scaffold904	11648	TT	GG	GG	INTERGENIC			
SNP_85752_A_11685	NW_004516258.1	scaffold904	11685	TT	AA	AA	INTERGENIC			
SNP_85753_A_13149	NW_004516258.1	scaffold904	13149	AA	TT	TT	INTERGENIC			
SNP_85755_A_14539	NW_004516258.1	scaffold904	14539	AA	GG	GG	INTERGENIC			
SNP_85756_A_16716	NW_004516258.1	scaffold904	16716	TT	CC	CC	INTERGENIC			
SNP_85757_A_16760	NW_004516258.1	scaffold904	16760	TT	CC	CC	INTERGENIC			
SNP_85758_A_16761	NW_004516258.1	scaffold904	16761	AA	CC	CC	INTERGENIC			
SNP_85759_A_20351	NW_004516258.1	scaffold904	20351	TT	AA	AA	INTERGENIC			
SNP_85760_A_11057	NW_004516261.1	scaffold908	11057	TT	AA	AA	INTERGENIC			
SNP_85761_A_11060	NW_004516261.1	scaffold908	11060	CC	TT	TT	INTERGENIC			
SNP_85762_A_11112	NW_004516261.1	scaffold908	11112	AA	GG	GG	INTERGENIC			
SNP_85763_A_11153	NW_004516261.1	scaffold908	11153	CC	TT	TT	INTERGENIC			
SNP_85764_A_11338	NW_004516261.1	scaffold908	11338	TT	CC	CC	INTERGENIC			
SNP_85765_A_11341	NW_004516261.1	scaffold908	11341	CC	TT	TT	INTERGENIC			
SNP_85766_A_11358	NW_004516261.1	scaffold908	11358	TT	CC	CC	INTERGENIC			
SNP_85767_A_11373	NW_004516261.1	scaffold908	11373	CC	AA	AA	INTERGENIC			
SNP_85768_A_11419	NW_004516261.1	scaffold908	11419	CC	TT	TT	INTERGENIC			
SNP_85769_A_17865	NW_004516261.1	scaffold908	17865	AA	GG	GG	INTERGENIC			
SNP_85770_A_18227	NW_004516261.1	scaffold908	18227	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85771_A_18233	NW_004516261.1	scaffold908	18233	TT	AA	AA	INTERGENIC			
SNP_85772_A_18235	NW_004516261.1	scaffold908	18235	GG	AA	AA	INTERGENIC			
SNP_85773_A_18643	NW_004516261.1	scaffold908	18643	GG	CC	CC	INTERGENIC			
SNP_85774_A_18766	NW_004516261.1	scaffold908	18766	AA	GG	GG	INTERGENIC			
SNP_85775_A_30029	NW_004516261.1	scaffold908	30029	AA	GG	GG	INTERGENIC			
SNP_85776_A_31232	NW_004516261.1	scaffold908	31232	AA	GG	GG	INTERGENIC			
SNP_85777_A_31267	NW_004516261.1	scaffold908	31267	CC	TT	TT	INTERGENIC			
SNP_85778_A_31388	NW_004516261.1	scaffold908	31388	CC	TT	TT	INTERGENIC			
SNP_85779_A_31403	NW_004516261.1	scaffold908	31403	GG	TT	TT	INTERGENIC			
SNP_85780_A_37881	NW_004516261.1	scaffold908	37881	AA	GG	GG	INTERGENIC			
SNP_85781_A_37889	NW_004516261.1	scaffold908	37889	AA	GG	GG	INTERGENIC			
SNP_85782_A_41004	NW_004516261.1	scaffold908	41004	TT	AA	AA	INTERGENIC			
SNP_85783_A_41207	NW_004516261.1	scaffold908	41207	TT	CC	CC	INTERGENIC			
SNP_85784_A_1630	NW_004516262.1	scaffold909	1630	AA	GG	GG	INTERGENIC			
SNP_85785_A_1711	NW_004516262.1	scaffold909	1711	CC	TT	TT	INTERGENIC			
SNP_85786_A_3824	NW_004516262.1	scaffold909	3824	AA	TT	TT	INTERGENIC			
SNP_85787_A_3889	NW_004516262.1	scaffold909	3889	CC	AA	AA	INTERGENIC			
SNP_85788_A_4540	NW_004516262.1	scaffold909	4540	TT	GG	GG	INTERGENIC			
SNP_85789_A_5135	NW_004516262.1	scaffold909	5135	TT	AA	AA	INTERGENIC			
SNP_85790_A_5199	NW_004516262.1	scaffold909	5199	AA	GG	GG	INTERGENIC			
SNP_85791_A_5269	NW_004516262.1	scaffold909	5269	CC	TT	TT	INTERGENIC			
SNP_85792_A_5287	NW_004516262.1	scaffold909	5287	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85793_A_5649	NW_004516262.1	scaffold909	5649	CC	TT	TT	INTERGENIC			
SNP_85794_A_5847	NW_004516262.1	scaffold909	5847	GG	AA	AA	INTERGENIC			
SNP_85795_A_5848	NW_004516262.1	scaffold909	5848	AA	CC	CC	INTERGENIC			
SNP_85796_A_5884	NW_004516262.1	scaffold909	5884	CC	TT	TT	INTERGENIC			
SNP_85797_A_6162	NW_004516262.1	scaffold909	6162	TT	CC	CC	INTERGENIC			
SNP_85798_A_6397	NW_004516262.1	scaffold909	6397	TT	CC	CC	INTERGENIC			
SNP_85799_A_6652	NW_004516262.1	scaffold909	6652	AA	TT	TT	INTERGENIC			
SNP_85801_A_6855	NW_004516262.1	scaffold909	6855	CC	TT	TT	INTERGENIC			
SNP_85802_A_6925	NW_004516262.1	scaffold909	6925	TT	CC	CC	INTERGENIC			
SNP_85803_A_6999	NW_004516262.1	scaffold909	6999	AA	CC	CC	INTERGENIC			
SNP_85804_A_8135	NW_004516262.1	scaffold909	8135	TT	CC	CC	INTERGENIC			
SNP_85805_A_8162	NW_004516262.1	scaffold909	8162	AA	TT	TT	INTERGENIC			
SNP_85806_A_8185	NW_004516262.1	scaffold909	8185	GG	TT	TT	INTERGENIC			
SNP_85807_A_8187	NW_004516262.1	scaffold909	8187	CC	TT	TT	INTERGENIC			
SNP_85808_A_8213	NW_004516262.1	scaffold909	8213	TT	GG	GG	INTERGENIC			
SNP_85809_A_8229	NW_004516262.1	scaffold909	8229	AA	GG	GG	INTERGENIC			
SNP_85810_A_8302	NW_004516262.1	scaffold909	8302	AA	GG	GG	INTERGENIC			
SNP_85811_A_8304	NW_004516262.1	scaffold909	8304	GG	AA	AA	INTERGENIC			
SNP_85812_A_8354	NW_004516262.1	scaffold909	8354	AA	CC	CC	INTERGENIC			
SNP_85813_A_8358	NW_004516262.1	scaffold909	8358	AA	GG	GG	INTERGENIC			
SNP_85814_A_8607	NW_004516262.1	scaffold909	8607	TT	GG	GG	INTERGENIC			
SNP_85815_A_8612	NW_004516262.1	scaffold909	8612	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85816_A_8621	NW_004516262.1	scaffold909	8621	GG	AA	AA	INTERGENIC			
SNP_85817_A_8643	NW_004516262.1	scaffold909	8643	AA	GG	GG	INTERGENIC			
SNP_85818_A_8676	NW_004516262.1	scaffold909	8676	AA	GG	GG	INTERGENIC			
SNP_85819_A_8685	NW_004516262.1	scaffold909	8685	GG	AA	AA	INTERGENIC			
SNP_85820_A_8711	NW_004516262.1	scaffold909	8711	AA	TT	TT	INTERGENIC			
SNP_85821_A_8715	NW_004516262.1	scaffold909	8715	AA	GG	GG	INTERGENIC			
SNP_85822_A_8723	NW_004516262.1	scaffold909	8723	TT	GG	GG	INTERGENIC			
SNP_85823_A_8726	NW_004516262.1	scaffold909	8726	AA	GG	GG	INTERGENIC			
SNP_85824_A_8743	NW_004516262.1	scaffold909	8743	AA	GG	GG	INTERGENIC			
SNP_85825_A_10232	NW_004516262.1	scaffold909	10232	TT	AA	AA	INTERGENIC			
SNP_85826_A_10256	NW_004516262.1	scaffold909	10256	CC	TT	TT	INTERGENIC			
SNP_85827_A_10306	NW_004516262.1	scaffold909	10306	CC	TT	TT	INTERGENIC			
SNP_85828_A_10307	NW_004516262.1	scaffold909	10307	AA	GG	GG	INTERGENIC			
SNP_85829_A_10407	NW_004516262.1	scaffold909	10407	AA	CC	CC	INTERGENIC			
SNP_85830_A_10418	NW_004516262.1	scaffold909	10418	GG	AA	AA	INTERGENIC			
SNP_85831_A_10508	NW_004516262.1	scaffold909	10508	TT	CC	CC	INTERGENIC			
SNP_85832_A_10510	NW_004516262.1	scaffold909	10510	CC	GG	GG	INTERGENIC			
SNP_85833_A_10722	NW_004516262.1	scaffold909	10722	GG	AA	AA	INTERGENIC			
SNP_85834_A_11067	NW_004516262.1	scaffold909	11067	TT	AA	AA	INTERGENIC			
SNP_85835_A_11793	NW_004516262.1	scaffold909	11793	GG	AA	AA	INTERGENIC			
SNP_85836_A_16153	NW_004516262.1	scaffold909	16153	TT	CC	CC	INTERGENIC			
SNP_85837_A_16244	NW_004516262.1	scaffold909	16244	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85838_A_17079	NW_004516262.1	scaffold909	17079	TT	CC	CC	INTERGENIC		
SNP_85839_A_17088	NW_004516262.1	scaffold909	17088	AA	CC	CC	INTERGENIC		
SNP_85840_A_18281	NW_004516262.1	scaffold909	18281	AA	GG	GG	INTERGENIC		
SNP_85841_A_18300	NW_004516262.1	scaffold909	18300	CC	TT	TT	INTERGENIC		
SNP_85842_A_18335	NW_004516262.1	scaffold909	18335	CC	TT	TT	INTERGENIC		
SNP_85843_A_18365	NW_004516262.1	scaffold909	18365	CC	GG	GG	INTERGENIC		
SNP_85844_A_18445	NW_004516262.1	scaffold909	18445	CC	TT	TT	INTERGENIC		
SNP_85845_A_18453	NW_004516262.1	scaffold909	18453	TT	CC	CC	INTERGENIC		
SNP_85846_A_18541	NW_004516262.1	scaffold909	18541	TT	GG	GG	INTERGENIC		
SNP_85848_A_21779	NW_004516262.1	scaffold909	21779	GG	AA	AA	DRR	101493621	Unknown function
SNP_85849_A_21902	NW_004516262.1	scaffold909	21902	CC	GG	GG	DRR	101493621	Unknown function
SNP_85850_A_22110	NW_004516262.1	scaffold909	22110	AA	GG	GG	DRR	101493621	Unknown function
SNP_85851_A_22481	NW_004516262.1	scaffold909	22481	AA	TT	TT	DRR	101493621	Unknown function
SNP_85852_A_23494	NW_004516262.1	scaffold909	23494	GG	TT	TT	INTRON	101493621	Unknown function
SNP_85853_A_23924	NW_004516262.1	scaffold909	23924	AA	GG	GG	INTRON	101493621	Unknown function
SNP_85854_A_23990	NW_004516262.1	scaffold909	23990	AA	GG	GG	INTRON	101493621	Unknown function
SNP_85855_A_24797	NW_004516262.1	scaffold909	24797	GG	AA	AA	NON_SYNONYMOUS_CODING	101493621	Unknown function
SNP_85856_A_26216	NW_004516262.1	scaffold909	26216	AA	GG	GG	URR	101493621	Unknown function
SNP_85857_A_26313	NW_004516262.1	scaffold909	26313	CC	GG	GG	URR	101493621	Unknown function
SNP_85858_A_26331	NW_004516262.1	scaffold909	26331	GG	AA	AA	URR	101493621	Unknown function
SNP_85859_A_26541	NW_004516262.1	scaffold909	26541	TT	CC	CC	URR	101493621	Unknown function
SNP_85860_A_26705	NW_004516262.1	scaffold909	26705	AA	CC	CC	URR	101493621	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85861_A_26997	NW_004516262.1	scaffold909	26997	GG	AA	AA	INTERGENIC			
SNP_85862_A_27095	NW_004516262.1	scaffold909	27095	TT	CC	CC	INTERGENIC			
SNP_85863_A_27202	NW_004516262.1	scaffold909	27202	GG	AA	AA	INTERGENIC			
SNP_85864_A_27214	NW_004516262.1	scaffold909	27214	AA	GG	GG	INTERGENIC			
SNP_85865_A_27216	NW_004516262.1	scaffold909	27216	TT	CC	CC	INTERGENIC			
SNP_85866_A_27243	NW_004516262.1	scaffold909	27243	AA	CC	CC	INTERGENIC			
SNP_85867_A_27397	NW_004516262.1	scaffold909	27397	AA	GG	GG	INTERGENIC			
SNP_85868_A_27586	NW_004516262.1	scaffold909	27586	CC	TT	TT	INTERGENIC			
SNP_85869_A_27640	NW_004516262.1	scaffold909	27640	CC	TT	TT	INTERGENIC			
SNP_85870_A_27648	NW_004516262.1	scaffold909	27648	TT	AA	AA	INTERGENIC			
SNP_85871_A_28105	NW_004516262.1	scaffold909	28105	TT	AA	AA	INTERGENIC			
SNP_85872_A_29173	NW_004516262.1	scaffold909	29173	AA	GG	GG	INTERGENIC			
SNP_85873_A_35547	NW_004516262.1	scaffold909	35547	CC	TT	TT	INTERGENIC			
SNP_85874_A_35861	NW_004516262.1	scaffold909	35861	GG	AA	AA	INTERGENIC			
SNP_85875_A_36043	NW_004516262.1	scaffold909	36043	AA	TT	TT	INTERGENIC			
SNP_85876_A_36110	NW_004516262.1	scaffold909	36110	AA	GG	GG	INTERGENIC			
SNP_85877_A_44341	NW_004516262.1	scaffold909	44341	GG	AA	AA	INTERGENIC			
SNP_85878_A_44360	NW_004516262.1	scaffold909	44360	CC	TT	TT	INTERGENIC			
SNP_85880_A_53620	NW_004516262.1	scaffold909	53620	AA	GG	GG	INTERGENIC			
SNP_85881_A_54000	NW_004516262.1	scaffold909	54000	TT	CC	CC	INTERGENIC			
SNP_85882_A_54103	NW_004516262.1	scaffold909	54103	GG	TT	TT	INTERGENIC			
SNP_85883_A_54146	NW_004516262.1	scaffold909	54146	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85884_A_54224	NW_004516262.1	scaffold909	54224	CC	TT	TT	INTERGENIC		
SNP_85885_A_3938	NW_004516263.1	scaffold910	3938	TT	CC	CC	INTERGENIC		
SNP_85886_A_4410	NW_004516263.1	scaffold910	4410	CC	AA	AA	INTERGENIC		
SNP_85887_A_8557	NW_004516263.1	scaffold910	8557	CC	TT	TT	INTRON	101493938	protein trichome birefringence-like 32
SNP_85888_A_8620	NW_004516263.1	scaffold910	8620	AA	GG	GG	INTRON	101493938	protein trichome birefringence-like 32
SNP_85889_A_13793	NW_004516264.1	scaffold913	13793	CC	TT	TT	DRR	101494264	protein TRANSPARENT TESTA 12-like
SNP_85890_A_112445	NW_004516264.1	scaffold913	112445	AA	GG	GG	INTERGENIC		
SNP_85891_A_132029	NW_004516264.1	scaffold913	132029	CC	AA	AA	INTERGENIC		
SNP_85892_A_139074	NW_004516264.1	scaffold913	139074	TT	GG	GG	URR	101499975	putative F-box protein At3g16210
SNP_85893_A_139166	NW_004516264.1	scaffold913	139166	AA	GG	GG	URR	101499975	putative F-box protein At3g16210
SNP_85894_A_139831	NW_004516264.1	scaffold913	139831	CC	TT	TT	URR	101499975	putative F-box protein At3g16210
SNP_85895_A_139860	NW_004516264.1	scaffold913	139860	AA	GG	GG	URR	101499975	putative F-box protein At3g16210
SNP_85896_A_140587	NW_004516264.1	scaffold913	140587	TT	CC	CC	INTERGENIC		
SNP_85897_A_140658	NW_004516264.1	scaffold913	140658	GG	AA	AA	INTERGENIC		
SNP_85899_A_140861	NW_004516264.1	scaffold913	140861	AA	GG	GG	INTERGENIC		
SNP_85900_A_140863	NW_004516264.1	scaffold913	140863	GG	AA	AA	INTERGENIC		
SNP_85901_A_140908	NW_004516264.1	scaffold913	140908	GG	AA	AA	INTERGENIC		
SNP_85902_A_140925	NW_004516264.1	scaffold913	140925	GG	AA	AA	INTERGENIC		
SNP_85903_A_140931	NW_004516264.1	scaffold913	140931	GG	AA	AA	INTERGENIC		
SNP_85904_A_140989	NW_004516264.1	scaffold913	140989	AA	GG	GG	INTERGENIC		
SNP_85905_A_141018	NW_004516264.1	scaffold913	141018	GG	AA	AA	INTERGENIC		
SNP_85906_A_141045	NW_004516264.1	scaffold913	141045	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_85907_A_141049	NW_004516264.1	scaffold913	141049	AA	TT	TT	INTERGENIC			
SNP_85908_A_141101	NW_004516264.1	scaffold913	141101	AA	GG	GG	INTERGENIC			
SNP_85909_A_141103	NW_004516264.1	scaffold913	141103	CC	TT	TT	INTERGENIC			
SNP_85910_A_141134	NW_004516264.1	scaffold913	141134	TT	AA	AA	INTERGENIC			
SNP_85911_A_141147	NW_004516264.1	scaffold913	141147	TT	AA	AA	INTERGENIC			
SNP_85912_A_141154	NW_004516264.1	scaffold913	141154	GG	AA	AA	INTERGENIC			
SNP_85913_A_141171	NW_004516264.1	scaffold913	141171	AA	GG	GG	INTERGENIC			
SNP_85914_A_141192	NW_004516264.1	scaffold913	141192	TT	CC	CC	INTERGENIC			
SNP_85915_A_141263	NW_004516264.1	scaffold913	141263	CC	GG	GG	INTERGENIC			
SNP_85916_A_141271	NW_004516264.1	scaffold913	141271	AA	GG	GG	INTERGENIC			
SNP_85917_A_143824	NW_004516264.1	scaffold913	143824	AA	GG	GG	INTERGENIC			
SNP_85918_A_145308	NW_004516264.1	scaffold913	145308	TT	CC	CC	INTERGENIC			
SNP_85919_A_145314	NW_004516264.1	scaffold913	145314	GG	TT	TT	INTERGENIC			
SNP_85920_A_145607	NW_004516264.1	scaffold913	145607	GG	AA	AA	INTERGENIC			
SNP_85922_A_201974	NW_004516264.1	scaffold913	201974	TT	AA	AA	INTERGENIC			
SNP_85923_A_204476	NW_004516264.1	scaffold913	204476	GG	AA	AA	INTERGENIC			
SNP_85924_A_209262	NW_004516264.1	scaffold913	209262	AA	TT	TT	URR	101500323	Unknown function	
SNP_85925_A_221954	NW_004516264.1	scaffold913	221954	TT	CC	CC	INTERGENIC			
SNP_85926_A_226835	NW_004516264.1	scaffold913	226835	TT	CC	CC	INTERGENIC			
SNP_85927_A_227366	NW_004516264.1	scaffold913	227366	GG	AA	AA	INTERGENIC			
SNP_85928_A_229350	NW_004516264.1	scaffold913	229350	GG	AA	AA	INTERGENIC			
SNP_85929_A_249337	NW_004516264.1	scaffold913	249337	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85930_A_251456	NW_004516264.1	scaffold913	251456	GG	CC	CC	INTERGENIC		
SNP_85931_A_251775	NW_004516264.1	scaffold913	251775	GG	AA	AA	INTERGENIC		
SNP_85932_A_251781	NW_004516264.1	scaffold913	251781	AA	GG	GG	INTERGENIC		
SNP_85933_A_251868	NW_004516264.1	scaffold913	251868	CC	TT	TT	DRR	101496950	uncharacterized LOC101496950
SNP_85934_A_251874	NW_004516264.1	scaffold913	251874	AA	TT	TT	DRR	101496950	uncharacterized LOC101496950
SNP_85937_A_252036	NW_004516264.1	scaffold913	252036	AA	GG	GG	DRR	101496950	uncharacterized LOC101496950
SNP_85939_A_276128	NW_004516264.1	scaffold913	276128	AA	GG	GG	URR	101497280	uncharacterized LOC101497280
SNP_85941_A_283248	NW_004516264.1	scaffold913	283248	AA	TT	TT	INTERGENIC		
SNP_85942_A_283469	NW_004516264.1	scaffold913	283469	AA	GG	GG	INTERGENIC		
SNP_85943_A_304700	NW_004516264.1	scaffold913	304700	TT	CC	CC	INTERGENIC		
SNP_85944_A_304705	NW_004516264.1	scaffold913	304705	AA	GG	GG	INTERGENIC		
SNP_85945_A_304706	NW_004516264.1	scaffold913	304706	TT	CC	CC	INTERGENIC		
SNP_85946_A_306476	NW_004516264.1	scaffold913	306476	AA	TT	TT	INTERGENIC		
SNP_85947_A_310132	NW_004516264.1	scaffold913	310132	TT	CC	CC	INTERGENIC		
SNP_85948_A_310138	NW_004516264.1	scaffold913	310138	CC	GG	GG	INTERGENIC		
SNP_85949_A_310156	NW_004516264.1	scaffold913	310156	GG	AA	AA	INTERGENIC		
SNP_85950_A_310310	NW_004516264.1	scaffold913	310310	AA	GG	GG	INTERGENIC		
SNP_85951_A_318800	NW_004516264.1	scaffold913	318800	GG	TT	TT	INTRON	101501585	Unknown function
SNP_85952_A_318813	NW_004516264.1	scaffold913	318813	CC	AA	AA	INTRON	101501585	Unknown function
SNP_85953_A_318878	NW_004516264.1	scaffold913	318878	CC	AA	AA	INTRON	101501585	Unknown function
SNP_85954_A_320640	NW_004516264.1	scaffold913	320640	AA	CC	CC	INTRON	101501585	Unknown function
SNP_85955_A_321030	NW_004516264.1	scaffold913	321030	GG	TT	TT	NON_SYNONYMOUS_CODING	101501585	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85956_A_4947	NW_004516265.1	scaffold914	4947	TT	CC	CC	INTERGENIC		
SNP_85957_A_8530	NW_004516265.1	scaffold914	8530	CC	TT	TT	INTERGENIC		
SNP_85958_A_20717	NW_004516265.1	scaffold914	20717	AA	TT	TT	URR	101505205	basic 7S globulin 2-like
SNP_85959_A_20738	NW_004516265.1	scaffold914	20738	AA	GG	GG	URR	101505205	basic 7S globulin 2-like
SNP_85960_A_20806	NW_004516265.1	scaffold914	20806	TT	GG	GG	URR	101505205	basic 7S globulin 2-like
SNP_85961_A_21011	NW_004516265.1	scaffold914	21011	AA	CC	CC	INTERGENIC		
SNP_85962_A_21033	NW_004516265.1	scaffold914	21033	TT	GG	GG	INTERGENIC		
SNP_85963_A_21041	NW_004516265.1	scaffold914	21041	TT	CC	CC	INTERGENIC		
SNP_85964_A_21043	NW_004516265.1	scaffold914	21043	TT	CC	CC	INTERGENIC		
SNP_85965_A_21055	NW_004516265.1	scaffold914	21055	GG	AA	AA	INTERGENIC		
SNP_85966_A_27865	NW_004516265.1	scaffold914	27865	TT	GG	GG	INTERGENIC		
SNP_85967_A_31424	NW_004516265.1	scaffold914	31424	AA	GG	GG	INTERGENIC		
SNP_85968_A_31748	NW_004516265.1	scaffold914	31748	AA	GG	GG	INTERGENIC		
SNP_85969_A_31754	NW_004516265.1	scaffold914	31754	GG	AA	AA	INTERGENIC		
SNP_85970_A_31763	NW_004516265.1	scaffold914	31763	AA	CC	CC	INTERGENIC		
SNP_85971_A_32509	NW_004516265.1	scaffold914	32509	CC	AA	AA	INTERGENIC		
SNP_85972_A_39458	NW_004516265.1	scaffold914	39458	TT	CC	CC	URR	101505527	basic 7S globulin 2-like
SNP_85973_A_108725	NW_004516265.1	scaffold914	108725	TT	CC	CC	DRR	101505858	uncharacterized LOC101505858
SNP_85974_A_122169	NW_004516265.1	scaffold914	122169	GG	AA	AA	INTERGENIC		
SNP_85975_A_131504	NW_004516265.1	scaffold914	131504	CC	TT	TT	INTERGENIC		
SNP_85976_A_139848	NW_004516265.1	scaffold914	139848	TT	CC	CC	INTERGENIC		
SNP_85977_A_180	NW_004516266.1	scaffold916	180	GG	AA	AA	DRR	101514670	sucrose transport protein SUC8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_85979_A_425	NW_004516266.1	scaffold916	425	TT	CC	CC	URR	101514670	sucrose transport protein SUC8-like
SNP_85980_A_594	NW_004516266.1	scaffold916	594	GG	AA	AA	SYNONYMOUS_CODING	101514670	sucrose transport protein SUC8-like
SNP_85981_A_708	NW_004516266.1	scaffold916	708	TT	CC	CC	SYNONYMOUS_CODING	101514670	sucrose transport protein SUC8-like
SNP_85982_A_2178	NW_004516266.1	scaffold916	2178	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85983_A_3203	NW_004516266.1	scaffold916	3203	GG	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85985_A_3962	NW_004516266.1	scaffold916	3962	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85986_A_4026	NW_004516266.1	scaffold916	4026	CC	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85987_A_4188	NW_004516266.1	scaffold916	4188	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85988_A_4225	NW_004516266.1	scaffold916	4225	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85989_A_4266	NW_004516266.1	scaffold916	4266	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85991_A_4440	NW_004516266.1	scaffold916	4440	GG	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85993_A_4582	NW_004516266.1	scaffold916	4582	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85994_A_4671	NW_004516266.1	scaffold916	4671	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85995_A_4710	NW_004516266.1	scaffold916	4710	TT	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85996_A_4719	NW_004516266.1	scaffold916	4719	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_85999_A_4908	NW_004516266.1	scaffold916	4908	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86000_A_4935	NW_004516266.1	scaffold916	4935	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86001_A_5095	NW_004516266.1	scaffold916	5095	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86002_A_5162	NW_004516266.1	scaffold916	5162	GG	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86004_A_5353	NW_004516266.1	scaffold916	5353	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86005_A_5387	NW_004516266.1	scaffold916	5387	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86006_A_7592	NW_004516266.1	scaffold916	7592	TT	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86007_A_7634	NW_004516266.1	scaffold916	7634	AA	GG	GG	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86008_A_7636	NW_004516266.1	scaffold916	7636	TT	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86009_A_7654	NW_004516266.1	scaffold916	7654	CC	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86010_A_7675	NW_004516266.1	scaffold916	7675	TT	CC	CC	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86011_A_7680	NW_004516266.1	scaffold916	7680	AA	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86012_A_7744	NW_004516266.1	scaffold916	7744	TT	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86014_A_7834	NW_004516266.1	scaffold916	7834	AA	GG	GG	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86015_A_7938	NW_004516266.1	scaffold916	7938	AA	GG	GG	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86016_A_8073	NW_004516266.1	scaffold916	8073	CC	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86017_A_8105	NW_004516266.1	scaffold916	8105	CC	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86018_A_8176	NW_004516266.1	scaffold916	8176	CC	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86021_A_8323	NW_004516266.1	scaffold916	8323	GG	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86022_A_8349	NW_004516266.1	scaffold916	8349	GG	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86023_A_8432	NW_004516266.1	scaffold916	8432	TT	CC	CC	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86024_A_8434	NW_004516266.1	scaffold916	8434	CC	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86025_A_8441	NW_004516266.1	scaffold916	8441	GG	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86026_A_8464	NW_004516266.1	scaffold916	8464	CC	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86027_A_8520	NW_004516266.1	scaffold916	8520	CC	GG	GG	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86028_A_8535	NW_004516266.1	scaffold916	8535	AA	TT	TT	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86029_A_8538	NW_004516266.1	scaffold916	8538	TT	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86030_A_8568	NW_004516266.1	scaffold916	8568	TT	CC	CC	INTRON		101514670	sucrose transport protein SUC8-like
SNP_86031_A_8570	NW_004516266.1	scaffold916	8570	GG	AA	AA	INTRON		101514670	sucrose transport protein SUC8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86032_A_8580	NW_004516266.1	scaffold916	8580	TT	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86033_A_8583	NW_004516266.1	scaffold916	8583	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86034_A_8591	NW_004516266.1	scaffold916	8591	AA	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86035_A_8605	NW_004516266.1	scaffold916	8605	TT	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86036_A_8608	NW_004516266.1	scaffold916	8608	TT	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86037_A_8684	NW_004516266.1	scaffold916	8684	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86038_A_8713	NW_004516266.1	scaffold916	8713	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86039_A_8725	NW_004516266.1	scaffold916	8725	AA	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86040_A_8800	NW_004516266.1	scaffold916	8800	CC	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86041_A_8802	NW_004516266.1	scaffold916	8802	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86042_A_8806	NW_004516266.1	scaffold916	8806	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86043_A_8819	NW_004516266.1	scaffold916	8819	CC	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86044_A_8820	NW_004516266.1	scaffold916	8820	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86045_A_8827	NW_004516266.1	scaffold916	8827	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86046_A_8833	NW_004516266.1	scaffold916	8833	GG	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86047_A_8919	NW_004516266.1	scaffold916	8919	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86048_A_8977	NW_004516266.1	scaffold916	8977	CC	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86049_A_8979	NW_004516266.1	scaffold916	8979	AA	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86050_A_8982	NW_004516266.1	scaffold916	8982	AA	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86051_A_9100	NW_004516266.1	scaffold916	9100	GG	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86053_A_9433	NW_004516266.1	scaffold916	9433	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86054_A_9470	NW_004516266.1	scaffold916	9470	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86056_A_9538	NW_004516266.1	scaffold916	9538	AA	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86057_A_9554	NW_004516266.1	scaffold916	9554	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86058_A_9593	NW_004516266.1	scaffold916	9593	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86059_A_9621	NW_004516266.1	scaffold916	9621	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86060_A_9638	NW_004516266.1	scaffold916	9638	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86061_A_9700	NW_004516266.1	scaffold916	9700	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86062_A_9708	NW_004516266.1	scaffold916	9708	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86063_A_9760	NW_004516266.1	scaffold916	9760	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86064_A_9862	NW_004516266.1	scaffold916	9862	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86065_A_9881	NW_004516266.1	scaffold916	9881	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86066_A_9882	NW_004516266.1	scaffold916	9882	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86069_A_10038	NW_004516266.1	scaffold916	10038	TT	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86071_A_10098	NW_004516266.1	scaffold916	10098	CC	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86073_A_10115	NW_004516266.1	scaffold916	10115	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86074_A_10137	NW_004516266.1	scaffold916	10137	GG	AA	AA	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86075_A_18676	NW_004516266.1	scaffold916	18676	AA	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86076_A_18961	NW_004516266.1	scaffold916	18961	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86077_A_19199	NW_004516266.1	scaffold916	19199	AA	GG	GG	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86078_A_19208	NW_004516266.1	scaffold916	19208	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86079_A_19211	NW_004516266.1	scaffold916	19211	TT	CC	CC	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86080_A_19217	NW_004516266.1	scaffold916	19217	GG	TT	TT	INTRON	101514670	sucrose transport protein SUC8-like
SNP_86081_A_101127	NW_004516266.1	scaffold916	101127	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86082_A_101459	NW_004516266.1	scaffold916	101459	TT	AA	AA	INTERGENIC			
SNP_86083_A_101861	NW_004516266.1	scaffold916	101861	TT	AA	AA	INTERGENIC			
SNP_86084_A_105262	NW_004516266.1	scaffold916	105262	TT	AA	AA	INTERGENIC			
SNP_86085_A_105293	NW_004516266.1	scaffold916	105293	TT	CC	CC	INTERGENIC			
SNP_86086_A_108155	NW_004516266.1	scaffold916	108155	GG	AA	AA	INTERGENIC			
SNP_86087_A_108169	NW_004516266.1	scaffold916	108169	CC	AA	AA	INTERGENIC			
SNP_86088_A_111188	NW_004516266.1	scaffold916	111188	TT	AA	AA	INTERGENIC			
SNP_86089_A_115184	NW_004516266.1	scaffold916	115184	AA	GG	GG	INTERGENIC			
SNP_86090_A_117863	NW_004516266.1	scaffold916	117863	CC	AA	AA	INTERGENIC			
SNP_86091_A_117954	NW_004516266.1	scaffold916	117954	TT	AA	AA	INTERGENIC			
SNP_86092_A_118125	NW_004516266.1	scaffold916	118125	TT	GG	GG	INTERGENIC			
SNP_86093_A_118151	NW_004516266.1	scaffold916	118151	TT	AA	AA	INTERGENIC			
SNP_86094_A_118326	NW_004516266.1	scaffold916	118326	CC	TT	TT	INTERGENIC			
SNP_86096_A_166276	NW_004516266.1	scaffold916	166276	TT	GG	GG	INTERGENIC			
SNP_86097_A_166277	NW_004516266.1	scaffold916	166277	AA	GG	GG	INTERGENIC			
SNP_86098_A_166294	NW_004516266.1	scaffold916	166294	CC	TT	TT	INTERGENIC			
SNP_86099_A_166341	NW_004516266.1	scaffold916	166341	CC	TT	TT	INTERGENIC			
SNP_86100_A_166399	NW_004516266.1	scaffold916	166399	TT	GG	GG	INTERGENIC			
SNP_86101_A_177566	NW_004516266.1	scaffold916	177566	CC	AA	AA	INTERGENIC			
SNP_86102_A_180943	NW_004516266.1	scaffold916	180943	AA	GG	GG	INTERGENIC			
SNP_86103_A_186982	NW_004516266.1	scaffold916	186982	CC	TT	TT	INTERGENIC			
SNP_86104_A_189532	NW_004516266.1	scaffold916	189532	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86106_A_282444	NW_004516266.1	scaffold916	282444	AA	CC	CC	INTERGENIC		
SNP_86107_A_284079	NW_004516266.1	scaffold916	284079	CC	AA	AA	INTERGENIC		
SNP_86108_A_322632	NW_004516266.1	scaffold916	322632	AA	CC	CC	INTERGENIC		
SNP_86110_A_408044	NW_004516266.1	scaffold916	408044	GG	CC	CC	INTRON	101510033	ABC transporter C family member 10-like
SNP_86112_A_543843	NW_004516266.1	scaffold916	543843	GG	AA	AA	INTERGENIC		
SNP_86113_A_12650	NW_004516268.1	scaffold918	12650	TT	CC	CC	INTERGENIC		
SNP_86114_A_13914	NW_004516268.1	scaffold918	13914	TT	CC	CC	INTERGENIC		
SNP_86115_A_13926	NW_004516268.1	scaffold918	13926	TT	AA	AA	INTERGENIC		
SNP_86116_A_13947	NW_004516268.1	scaffold918	13947	GG	AA	AA	INTERGENIC		
SNP_86117_A_14269	NW_004516268.1	scaffold918	14269	TT	CC	CC	INTERGENIC		
SNP_86118_A_33844	NW_004516268.1	scaffold918	33844	AA	GG	GG	INTERGENIC		
SNP_86119_A_33864	NW_004516268.1	scaffold918	33864	AA	TT	TT	INTERGENIC		
SNP_86120_A_36635	NW_004516268.1	scaffold918	36635	TT	CC	CC	INTERGENIC		
SNP_86121_A_39728	NW_004516268.1	scaffold918	39728	TT	AA	AA	INTERGENIC		
SNP_86122_A_49211	NW_004516268.1	scaffold918	49211	AA	CC	CC	INTERGENIC		
SNP_86123_A_49268	NW_004516268.1	scaffold918	49268	GG	AA	AA	INTERGENIC		
SNP_86125_A_49319	NW_004516268.1	scaffold918	49319	AA	CC	CC	INTERGENIC		
SNP_86126_A_8273	NW_004516269.1	scaffold919	8273	CC	TT	TT	INTERGENIC		
SNP_86127_A_9693	NW_004516269.1	scaffold919	9693	TT	GG	GG	INTERGENIC		
SNP_86128_A_12976	NW_004516269.1	scaffold919	12976	TT	AA	AA	INTERGENIC		
SNP_86129_A_12982	NW_004516269.1	scaffold919	12982	AA	GG	GG	INTERGENIC		
SNP_86130_A_12996	NW_004516269.1	scaffold919	12996	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86131_A_13003	NW_004516269.1	scaffold919	13003	AA	GG	GG	INTERGENIC		
SNP_86132_A_13008	NW_004516269.1	scaffold919	13008	AA	GG	GG	INTERGENIC		
SNP_86133_A_13365	NW_004516269.1	scaffold919	13365	GG	AA	AA	INTERGENIC		
SNP_86134_A_13410	NW_004516269.1	scaffold919	13410	TT	CC	CC	INTERGENIC		
SNP_86135_A_13416	NW_004516269.1	scaffold919	13416	AA	TT	TT	INTERGENIC		
SNP_86137_A_14694	NW_004516269.1	scaffold919	14694	CC	AA	AA	INTERGENIC		
SNP_86139_A_73713	NW_004516269.1	scaffold919	73713	CC	AA	AA	INTRON	101494360	uncharacterized LOC101494360
SNP_86140_A_73745	NW_004516269.1	scaffold919	73745	AA	GG	GG	INTRON	101494360	uncharacterized LOC101494360
SNP_86141_A_73753	NW_004516269.1	scaffold919	73753	CC	TT	TT	INTRON	101494360	uncharacterized LOC101494360
SNP_86143_A_85131	NW_004516269.1	scaffold919	85131	CC	TT	TT	INTERGENIC		
SNP_86144_A_85150	NW_004516269.1	scaffold919	85150	GG	AA	AA	INTERGENIC		
SNP_86145_A_94141	NW_004516269.1	scaffold919	94141	AA	TT	TT	INTERGENIC		
SNP_86146_A_94142	NW_004516269.1	scaffold919	94142	TT	GG	GG	INTERGENIC		
SNP_86147_A_94425	NW_004516269.1	scaffold919	94425	AA	GG	GG	INTERGENIC		
SNP_86148_A_97912	NW_004516269.1	scaffold919	97912	TT	CC	CC	INTERGENIC		
SNP_86149_A_102467	NW_004516269.1	scaffold919	102467	CC	AA	AA	INTERGENIC		
SNP_86150_A_102473	NW_004516269.1	scaffold919	102473	GG	AA	AA	INTERGENIC		
SNP_86151_A_102474	NW_004516269.1	scaffold919	102474	AA	GG	GG	INTERGENIC		
SNP_86152_A_113504	NW_004516269.1	scaffold919	113504	CC	AA	AA	INTERGENIC		
SNP_86153_A_114007	NW_004516269.1	scaffold919	114007	AA	GG	GG	INTERGENIC		
SNP_86154_A_114021	NW_004516269.1	scaffold919	114021	TT	CC	CC	INTERGENIC		
SNP_86155_A_114034	NW_004516269.1	scaffold919	114034	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86156_A_114410	NW_004516269.1	scaffold919	114410	AA	GG	GG	INTERGENIC			
SNP_86157_A_114659	NW_004516269.1	scaffold919	114659	AA	GG	GG	INTERGENIC			
SNP_86158_A_114664	NW_004516269.1	scaffold919	114664	AA	GG	GG	INTERGENIC			
SNP_86159_A_114684	NW_004516269.1	scaffold919	114684	GG	AA	AA	INTERGENIC			
SNP_86160_A_115023	NW_004516269.1	scaffold919	115023	GG	AA	AA	INTERGENIC			
SNP_86161_A_115057	NW_004516269.1	scaffold919	115057	CC	TT	TT	INTERGENIC			
SNP_86162_A_115127	NW_004516269.1	scaffold919	115127	TT	CC	CC	INTERGENIC			
SNP_86163_A_115139	NW_004516269.1	scaffold919	115139	TT	GG	GG	INTERGENIC			
SNP_86164_A_115180	NW_004516269.1	scaffold919	115180	GG	TT	TT	INTERGENIC			
SNP_86165_A_116592	NW_004516269.1	scaffold919	116592	AA	GG	GG	INTERGENIC			
SNP_86166_A_151618	NW_004516269.1	scaffold919	151618	TT	CC	CC	INTERGENIC			
SNP_86167_A_151642	NW_004516269.1	scaffold919	151642	AA	GG	GG	INTERGENIC			
SNP_86168_A_183216	NW_004516269.1	scaffold919	183216	GG	AA	AA	INTERGENIC			
SNP_86170_A_183458	NW_004516269.1	scaffold919	183458	AA	CC	CC	INTERGENIC			
SNP_86171_A_183495	NW_004516269.1	scaffold919	183495	CC	TT	TT	INTERGENIC			
SNP_86172_A_183509	NW_004516269.1	scaffold919	183509	TT	CC	CC	INTERGENIC			
SNP_86173_A_183514	NW_004516269.1	scaffold919	183514	AA	GG	GG	INTERGENIC			
SNP_86174_A_183543	NW_004516269.1	scaffold919	183543	GG	AA	AA	INTERGENIC			
SNP_86175_A_183549	NW_004516269.1	scaffold919	183549	CC	TT	TT	INTERGENIC			
SNP_86176_A_183566	NW_004516269.1	scaffold919	183566	TT	AA	AA	INTERGENIC			
SNP_86177_A_183606	NW_004516269.1	scaffold919	183606	AA	GG	GG	INTERGENIC			
SNP_86179_A_186250	NW_004516269.1	scaffold919	186250	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86180_A_186261	NW_004516269.1	scaffold919	186261	AA	TT	TT	INTERGENIC			
SNP_86181_A_186288	NW_004516269.1	scaffold919	186288	TT	AA	AA	INTERGENIC			
SNP_86182_A_186303	NW_004516269.1	scaffold919	186303	TT	AA	AA	INTERGENIC			
SNP_86183_A_186321	NW_004516269.1	scaffold919	186321	TT	AA	AA	INTERGENIC			
SNP_86184_A_186333	NW_004516269.1	scaffold919	186333	TT	AA	AA	INTERGENIC			
SNP_86185_A_186337	NW_004516269.1	scaffold919	186337	GG	AA	AA	INTERGENIC			
SNP_86186_A_186532	NW_004516269.1	scaffold919	186532	TT	CC	CC	INTERGENIC			
SNP_86187_A_186535	NW_004516269.1	scaffold919	186535	GG	AA	AA	INTERGENIC			
SNP_86188_A_186554	NW_004516269.1	scaffold919	186554	GG	AA	AA	INTERGENIC			
SNP_86189_A_186562	NW_004516269.1	scaffold919	186562	AA	GG	GG	INTERGENIC			
SNP_86190_A_186608	NW_004516269.1	scaffold919	186608	CC	AA	AA	INTERGENIC			
SNP_86191_A_186668	NW_004516269.1	scaffold919	186668	AA	GG	GG	INTERGENIC			
SNP_86192_A_187093	NW_004516269.1	scaffold919	187093	TT	CC	CC	INTERGENIC			
SNP_86193_A_187170	NW_004516269.1	scaffold919	187170	CC	TT	TT	INTERGENIC			
SNP_86194_A_187203	NW_004516269.1	scaffold919	187203	TT	CC	CC	INTERGENIC			
SNP_86195_A_188597	NW_004516269.1	scaffold919	188597	GG	AA	AA	INTERGENIC			
SNP_86196_A_188999	NW_004516269.1	scaffold919	188999	CC	GG	GG	INTERGENIC			
SNP_86197_A_189032	NW_004516269.1	scaffold919	189032	CC	TT	TT	INTERGENIC			
SNP_86198_A_189097	NW_004516269.1	scaffold919	189097	AA	TT	TT	INTERGENIC			
SNP_86199_A_190192	NW_004516269.1	scaffold919	190192	TT	CC	CC	INTERGENIC			
SNP_86200_A_190204	NW_004516269.1	scaffold919	190204	AA	GG	GG	INTERGENIC			
SNP_86201_A_193432	NW_004516269.1	scaffold919	193432	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86202_A_193756	NW_004516269.1	scaffold919	193756	TT	AA	AA	INTERGENIC			
SNP_86203_A_194083	NW_004516269.1	scaffold919	194083	AA	GG	GG	INTERGENIC			
SNP_86204_A_194117	NW_004516269.1	scaffold919	194117	TT	AA	AA	INTERGENIC			
SNP_86205_A_194706	NW_004516269.1	scaffold919	194706	CC	TT	TT	INTERGENIC			
SNP_86206_A_240131	NW_004516269.1	scaffold919	240131	AA	GG	GG	INTERGENIC			
SNP_86207_A_254236	NW_004516269.1	scaffold919	254236	AA	GG	GG	INTERGENIC			
SNP_86208_A_254243	NW_004516269.1	scaffold919	254243	GG	AA	AA	INTERGENIC			
SNP_86209_A_301768	NW_004516269.1	scaffold919	301768	AA	TT	TT	INTERGENIC			
SNP_86210_A_301804	NW_004516269.1	scaffold919	301804	CC	AA	AA	INTERGENIC			
SNP_86211_A_301928	NW_004516269.1	scaffold919	301928	GG	AA	AA	INTERGENIC			
SNP_86212_A_301945	NW_004516269.1	scaffold919	301945	CC	TT	TT	INTERGENIC			
SNP_86213_A_303677	NW_004516269.1	scaffold919	303677	GG	AA	AA	INTERGENIC			
SNP_86214_A_304180	NW_004516269.1	scaffold919	304180	CC	AA	AA	INTERGENIC			
SNP_86215_A_353428	NW_004516269.1	scaffold919	353428	TT	AA	AA	INTERGENIC			
SNP_86216_A_416582	NW_004516269.1	scaffold919	416582	AA	CC	CC	INTERGENIC			
SNP_86217_A_443950	NW_004516269.1	scaffold919	443950	TT	GG	GG	URR	101491652	uncharacterized LOC101491652	
SNP_86218_A_488893	NW_004516269.1	scaffold919	488893	AA	TT	TT	INTRON	101496632	Unknown function	
SNP_86219_A_505016	NW_004516269.1	scaffold919	505016	CC	TT	TT	INTRON	101496632	Unknown function	
SNP_86220_A_528765	NW_004516269.1	scaffold919	528765	TT	CC	CC	INTRON	101496632	Unknown function	
SNP_86221_A_572830	NW_004516269.1	scaffold919	572830	GG	AA	AA	INTERGENIC			
SNP_86222_A_573056	NW_004516269.1	scaffold919	573056	TT	GG	GG	INTERGENIC			
SNP_86223_A_573071	NW_004516269.1	scaffold919	573071	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86224_A_573108	NW_004516269.1	scaffold919	573108	AA	TT	TT	INTERGENIC			
SNP_86225_A_573118	NW_004516269.1	scaffold919	573118	TT	CC	CC	INTERGENIC			
SNP_86226_A_573122	NW_004516269.1	scaffold919	573122	GG	TT	TT	INTERGENIC			
SNP_86227_A_573127	NW_004516269.1	scaffold919	573127	AA	TT	TT	INTERGENIC			
SNP_86228_A_573160	NW_004516269.1	scaffold919	573160	AA	TT	TT	INTERGENIC			
SNP_86229_A_573177	NW_004516269.1	scaffold919	573177	TT	CC	CC	INTERGENIC			
SNP_86230_A_573183	NW_004516269.1	scaffold919	573183	AA	GG	GG	INTERGENIC			
SNP_86231_A_573199	NW_004516269.1	scaffold919	573199	TT	CC	CC	INTERGENIC			
SNP_86232_A_585795	NW_004516269.1	scaffold919	585795	AA	GG	GG	INTERGENIC			
SNP_86233_A_589657	NW_004516269.1	scaffold919	589657	TT	AA	AA	INTERGENIC			
SNP_86234_A_589907	NW_004516269.1	scaffold919	589907	TT	AA	AA	INTERGENIC			
SNP_86235_A_597936	NW_004516269.1	scaffold919	597936	AA	GG	GG	INTERGENIC			
SNP_86236_A_598458	NW_004516269.1	scaffold919	598458	AA	GG	GG	INTERGENIC			
SNP_86237_A_635203	NW_004516269.1	scaffold919	635203	TT	CC	CC	INTERGENIC			
SNP_86238_A_646069	NW_004516269.1	scaffold919	646069	GG	AA	AA	INTERGENIC			
SNP_86239_A_673244	NW_004516269.1	scaffold919	673244	TT	CC	CC	INTERGENIC			
SNP_86240_A_673293	NW_004516269.1	scaffold919	673293	TT	CC	CC	INTERGENIC			
SNP_86242_A_718829	NW_004516269.1	scaffold919	718829	AA	GG	GG	INTERGENIC			
SNP_86243_A_724477	NW_004516269.1	scaffold919	724477	CC	TT	TT	INTERGENIC			
SNP_86244_A_724492	NW_004516269.1	scaffold919	724492	AA	TT	TT	INTERGENIC			
SNP_86245_A_724501	NW_004516269.1	scaffold919	724501	CC	TT	TT	INTERGENIC			
SNP_86246_A_2943	NW_004516271.1	scaffold922	2943	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86247_A_21483	NW_004516271.1	scaffold922	21483	AA	GG	GG	INTERGENIC		
SNP_86248_A_21489	NW_004516271.1	scaffold922	21489	AA	GG	GG	INTERGENIC		
SNP_86249_A_21514	NW_004516271.1	scaffold922	21514	TT	CC	CC	INTERGENIC		
SNP_86250_A_21765	NW_004516271.1	scaffold922	21765	TT	CC	CC	INTERGENIC		
SNP_86251_A_40629	NW_004516271.1	scaffold922	40629	AA	CC	CC	INTERGENIC		
SNP_86252_A_40852	NW_004516271.1	scaffold922	40852	AA	GG	GG	INTERGENIC		
SNP_86253_A_41033	NW_004516271.1	scaffold922	41033	AA	GG	GG	INTERGENIC		
SNP_86254_A_41035	NW_004516271.1	scaffold922	41035	TT	CC	CC	INTERGENIC		
SNP_86256_A_78561	NW_004516271.1	scaffold922	78561	TT	CC	CC	INTERGENIC		
SNP_86257_A_93852	NW_004516271.1	scaffold922	93852	TT	AA	AA	INTRON	101497281	nuclear pore complex protein NUP205
SNP_86258_A_24106	NW_004516272.1	scaffold924	24106	TT	AA	AA	INTERGENIC		
SNP_86259_A_56803	NW_004516272.1	scaffold924	56803	AA	CC	CC	INTERGENIC		
SNP_86260_A_81135	NW_004516272.1	scaffold924	81135	TT	CC	CC	INTERGENIC		
SNP_86261_A_81137	NW_004516272.1	scaffold924	81137	CC	TT	TT	INTERGENIC		
SNP_86262_A_96693	NW_004516272.1	scaffold924	96693	AA	GG	GG	INTERGENIC		
SNP_86263_A_97051	NW_004516272.1	scaffold924	97051	AA	GG	GG	INTERGENIC		
SNP_86264_A_122063	NW_004516272.1	scaffold924	122063	CC	TT	TT	INTERGENIC		
SNP_86265_A_122104	NW_004516272.1	scaffold924	122104	CC	AA	AA	INTERGENIC		
SNP_86266_A_122226	NW_004516272.1	scaffold924	122226	GG	AA	AA	INTERGENIC		
SNP_86267_A_122477	NW_004516272.1	scaffold924	122477	AA	GG	GG	INTERGENIC		
SNP_86269_A_219621	NW_004516272.1	scaffold924	219621	AA	CC	CC	NON_SYNONYMOUS_CODING	101499668	isoflavone 7-O-glucosyltransferase 1-like
SNP_86270_A_219624	NW_004516272.1	scaffold924	219624	TT	AA	AA	NON_SYNONYMOUS_CODING	101499668	isoflavone 7-O-glucosyltransferase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86271_A_219669	NW_004516272.1	scaffold924	219669	TT	AA	AA	NON_SYNONYMOUS_CODING	101499668	isoflavone 7-O-glucosyltransferase 1-like
SNP_86272_A_225852	NW_004516272.1	scaffold924	225852	TT	CC	CC	INTERGENIC		
SNP_86273_A_265681	NW_004516272.1	scaffold924	265681	GG	TT	TT	INTERGENIC		
SNP_86274_A_265805	NW_004516272.1	scaffold924	265805	TT	GG	GG	INTERGENIC		
SNP_86275_A_265931	NW_004516272.1	scaffold924	265931	AA	GG	GG	INTERGENIC		
SNP_86276_A_265975	NW_004516272.1	scaffold924	265975	TT	CC	CC	INTERGENIC		
SNP_86277_A_265985	NW_004516272.1	scaffold924	265985	TT	CC	CC	INTERGENIC		
SNP_86278_A_266026	NW_004516272.1	scaffold924	266026	CC	TT	TT	INTERGENIC		
SNP_86279_A_266075	NW_004516272.1	scaffold924	266075	TT	CC	CC	INTERGENIC		
SNP_86280_A_266089	NW_004516272.1	scaffold924	266089	GG	TT	TT	INTERGENIC		
SNP_86281_A_266104	NW_004516272.1	scaffold924	266104	TT	CC	CC	INTERGENIC		
SNP_86282_A_266122	NW_004516272.1	scaffold924	266122	CC	TT	TT	INTERGENIC		
SNP_86283_A_266167	NW_004516272.1	scaffold924	266167	GG	AA	AA	INTERGENIC		
SNP_86284_A_266474	NW_004516272.1	scaffold924	266474	TT	CC	CC	INTERGENIC		
SNP_86286_A_389	NW_004516274.1	scaffold929	389	AA	GG	GG	INTERGENIC		
SNP_86287_A_683	NW_004516274.1	scaffold929	683	AA	GG	GG	INTERGENIC		
SNP_86288_A_8109	NW_004516274.1	scaffold929	8109	AA	GG	GG	INTERGENIC		
SNP_86289_A_8284	NW_004516274.1	scaffold929	8284	TT	CC	CC	INTERGENIC		
SNP_86290_A_10050	NW_004516274.1	scaffold929	10050	TT	CC	CC	INTERGENIC		
SNP_86291_A_10220	NW_004516274.1	scaffold929	10220	CC	TT	TT	INTERGENIC		
SNP_86292_A_10228	NW_004516274.1	scaffold929	10228	AA	GG	GG	INTERGENIC		
SNP_86293_A_10260	NW_004516274.1	scaffold929	10260	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86294_A_10970	NW_004516274.1	scaffold929	10970	AA	GG	GG	INTERGENIC			
SNP_86295_A_10999	NW_004516274.1	scaffold929	10999	TT	CC	CC	INTERGENIC			
SNP_86296_A_11066	NW_004516274.1	scaffold929	11066	GG	CC	CC	INTERGENIC			
SNP_86297_A_11243	NW_004516274.1	scaffold929	11243	AA	GG	GG	INTERGENIC			
SNP_86298_A_11244	NW_004516274.1	scaffold929	11244	CC	AA	AA	INTERGENIC			
SNP_86299_A_11276	NW_004516274.1	scaffold929	11276	AA	GG	GG	INTERGENIC			
SNP_86300_A_11304	NW_004516274.1	scaffold929	11304	TT	CC	CC	INTERGENIC			
SNP_86301_A_15676	NW_004516274.1	scaffold929	15676	TT	CC	CC	INTERGENIC			
SNP_86302_A_15688	NW_004516274.1	scaffold929	15688	AA	CC	CC	INTERGENIC			
SNP_86303_A_15750	NW_004516274.1	scaffold929	15750	TT	CC	CC	INTERGENIC			
SNP_86304_A_15921	NW_004516274.1	scaffold929	15921	GG	CC	CC	INTERGENIC			
SNP_86305_A_16031	NW_004516274.1	scaffold929	16031	GG	TT	TT	INTERGENIC			
SNP_86306_A_16263	NW_004516274.1	scaffold929	16263	AA	TT	TT	INTERGENIC			
SNP_86307_A_16514	NW_004516274.1	scaffold929	16514	AA	GG	GG	INTERGENIC			
SNP_86308_A_16546	NW_004516274.1	scaffold929	16546	CC	TT	TT	INTERGENIC			
SNP_86309_A_16593	NW_004516274.1	scaffold929	16593	CC	TT	TT	INTERGENIC			
SNP_86310_A_16670	NW_004516274.1	scaffold929	16670	CC	AA	AA	INTERGENIC			
SNP_86312_A_17297	NW_004516274.1	scaffold929	17297	CC	TT	TT	INTERGENIC			
SNP_86313_A_17349	NW_004516274.1	scaffold929	17349	GG	AA	AA	INTERGENIC			
SNP_86314_A_17364	NW_004516274.1	scaffold929	17364	GG	TT	TT	INTERGENIC			
SNP_86315_A_17429	NW_004516274.1	scaffold929	17429	CC	TT	TT	INTERGENIC			
SNP_86316_A_17446	NW_004516274.1	scaffold929	17446	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86318_A_20978	NW_004516274.1	scaffold929	20978	AA	GG	GG	INTERGENIC			
SNP_86319_A_21121	NW_004516274.1	scaffold929	21121	GG	AA	AA	INTERGENIC			
SNP_86320_A_21184	NW_004516274.1	scaffold929	21184	TT	CC	CC	INTERGENIC			
SNP_86321_A_44895	NW_004516276.1	scaffold931	44895	TT	CC	CC	INTERGENIC			
SNP_86322_A_65176	NW_004516276.1	scaffold931	65176	AA	TT	TT	INTERGENIC			
SNP_86323_A_65878	NW_004516276.1	scaffold931	65878	AA	CC	CC	INTERGENIC			
SNP_86324_A_97993	NW_004516276.1	scaffold931	97993	CC	AA	AA	INTERGENIC			
SNP_86326_A_101273	NW_004516276.1	scaffold931	101273	AA	GG	GG	INTERGENIC			
SNP_86327_A_102796	NW_004516276.1	scaffold931	102796	CC	TT	TT	INTERGENIC			
SNP_86328_A_102838	NW_004516276.1	scaffold931	102838	TT	AA	AA	INTERGENIC			
SNP_86329_A_103010	NW_004516276.1	scaffold931	103010	TT	AA	AA	INTERGENIC			
SNP_86330_A_103055	NW_004516276.1	scaffold931	103055	GG	AA	AA	INTERGENIC			
SNP_86331_A_103058	NW_004516276.1	scaffold931	103058	TT	GG	GG	INTERGENIC			
SNP_86332_A_103064	NW_004516276.1	scaffold931	103064	AA	GG	GG	INTERGENIC			
SNP_86333_A_103075	NW_004516276.1	scaffold931	103075	AA	GG	GG	INTERGENIC			
SNP_86334_A_103340	NW_004516276.1	scaffold931	103340	AA	GG	GG	INTERGENIC			
SNP_86335_A_103658	NW_004516276.1	scaffold931	103658	GG	CC	CC	INTERGENIC			
SNP_86336_A_105151	NW_004516276.1	scaffold931	105151	CC	GG	GG	INTERGENIC			
SNP_86337_A_105488	NW_004516276.1	scaffold931	105488	CC	TT	TT	INTERGENIC			
SNP_86338_A_108919	NW_004516276.1	scaffold931	108919	GG	CC	CC	INTERGENIC			
SNP_86339_A_108983	NW_004516276.1	scaffold931	108983	AA	TT	TT	INTERGENIC			
SNP_86340_A_112291	NW_004516276.1	scaffold931	112291	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86341_A_112322	NW_004516276.1	scaffold931	112322	TT	CC	CC	INTERGENIC			
SNP_86342_A_112328	NW_004516276.1	scaffold931	112328	TT	CC	CC	INTERGENIC			
SNP_86343_A_112368	NW_004516276.1	scaffold931	112368	CC	TT	TT	INTERGENIC			
SNP_86344_A_112372	NW_004516276.1	scaffold931	112372	AA	CC	CC	INTERGENIC			
SNP_86345_A_112419	NW_004516276.1	scaffold931	112419	GG	AA	AA	INTERGENIC			
SNP_86346_A_112535	NW_004516276.1	scaffold931	112535	CC	AA	AA	INTERGENIC			
SNP_86347_A_112548	NW_004516276.1	scaffold931	112548	GG	TT	TT	INTERGENIC			
SNP_86348_A_112569	NW_004516276.1	scaffold931	112569	AA	CC	CC	INTERGENIC			
SNP_86349_A_112603	NW_004516276.1	scaffold931	112603	AA	TT	TT	INTERGENIC			
SNP_86350_A_112772	NW_004516276.1	scaffold931	112772	TT	AA	AA	INTERGENIC			
SNP_86351_A_112805	NW_004516276.1	scaffold931	112805	CC	TT	TT	INTERGENIC			
SNP_86352_A_112835	NW_004516276.1	scaffold931	112835	TT	CC	CC	INTERGENIC			
SNP_86353_A_113968	NW_004516276.1	scaffold931	113968	GG	CC	CC	INTERGENIC			
SNP_86354_A_114199	NW_004516276.1	scaffold931	114199	TT	GG	GG	INTERGENIC			
SNP_86355_A_114411	NW_004516276.1	scaffold931	114411	AA	TT	TT	INTERGENIC			
SNP_86356_A_115528	NW_004516276.1	scaffold931	115528	TT	GG	GG	INTERGENIC			
SNP_86357_A_115808	NW_004516276.1	scaffold931	115808	CC	TT	TT	INTERGENIC			
SNP_86358_A_115831	NW_004516276.1	scaffold931	115831	CC	TT	TT	INTERGENIC			
SNP_86359_A_115848	NW_004516276.1	scaffold931	115848	GG	TT	TT	INTERGENIC			
SNP_86360_A_115872	NW_004516276.1	scaffold931	115872	GG	AA	AA	INTERGENIC			
SNP_86361_A_115983	NW_004516276.1	scaffold931	115983	TT	CC	CC	INTERGENIC			
SNP_86362_A_116063	NW_004516276.1	scaffold931	116063	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86363_A_116107	NW_004516276.1	scaffold931	116107	GG	AA	AA	INTERGENIC			
SNP_86364_A_116160	NW_004516276.1	scaffold931	116160	TT	GG	GG	INTERGENIC			
SNP_86365_A_116277	NW_004516276.1	scaffold931	116277	GG	AA	AA	INTERGENIC			
SNP_86367_A_116394	NW_004516276.1	scaffold931	116394	CC	TT	TT	INTERGENIC			
SNP_86369_A_116449	NW_004516276.1	scaffold931	116449	CC	GG	GG	INTERGENIC			
SNP_86371_A_117051	NW_004516276.1	scaffold931	117051	AA	CC	CC	INTERGENIC			
SNP_86373_A_117138	NW_004516276.1	scaffold931	117138	CC	GG	GG	INTERGENIC			
SNP_86374_A_117293	NW_004516276.1	scaffold931	117293	AA	GG	GG	INTERGENIC			
SNP_86375_A_117304	NW_004516276.1	scaffold931	117304	TT	GG	GG	INTERGENIC			
SNP_86376_A_117429	NW_004516276.1	scaffold931	117429	CC	GG	GG	INTERGENIC			
SNP_86377_A_117441	NW_004516276.1	scaffold931	117441	GG	AA	AA	INTERGENIC			
SNP_86378_A_117442	NW_004516276.1	scaffold931	117442	TT	CC	CC	INTERGENIC			
SNP_86379_A_117450	NW_004516276.1	scaffold931	117450	AA	TT	TT	INTERGENIC			
SNP_86380_A_117484	NW_004516276.1	scaffold931	117484	GG	AA	AA	INTERGENIC			
SNP_86381_A_117502	NW_004516276.1	scaffold931	117502	CC	TT	TT	INTERGENIC			
SNP_86382_A_117510	NW_004516276.1	scaffold931	117510	TT	AA	AA	INTERGENIC			
SNP_86383_A_117547	NW_004516276.1	scaffold931	117547	CC	AA	AA	INTERGENIC			
SNP_86384_A_117553	NW_004516276.1	scaffold931	117553	GG	TT	TT	INTERGENIC			
SNP_86385_A_117712	NW_004516276.1	scaffold931	117712	GG	AA	AA	INTERGENIC			
SNP_86386_A_117726	NW_004516276.1	scaffold931	117726	GG	CC	CC	INTERGENIC			
SNP_86387_A_117727	NW_004516276.1	scaffold931	117727	TT	AA	AA	INTERGENIC			
SNP_86388_A_117771	NW_004516276.1	scaffold931	117771	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86389_A_117776	NW_004516276.1	scaffold931	117776	AA	GG	GG	INTERGENIC			
SNP_86391_A_118368	NW_004516276.1	scaffold931	118368	CC	AA	AA	INTERGENIC			
SNP_86392_A_118459	NW_004516276.1	scaffold931	118459	CC	TT	TT	INTERGENIC			
SNP_86393_A_118600	NW_004516276.1	scaffold931	118600	GG	AA	AA	INTERGENIC			
SNP_86394_A_118641	NW_004516276.1	scaffold931	118641	GG	TT	TT	INTERGENIC			
SNP_86395_A_125061	NW_004516276.1	scaffold931	125061	TT	CC	CC	INTERGENIC			
SNP_86396_A_125129	NW_004516276.1	scaffold931	125129	CC	TT	TT	INTERGENIC			
SNP_86397_A_125352	NW_004516276.1	scaffold931	125352	AA	GG	GG	INTERGENIC			
SNP_86398_A_125391	NW_004516276.1	scaffold931	125391	TT	AA	AA	INTERGENIC			
SNP_86399_A_125415	NW_004516276.1	scaffold931	125415	GG	AA	AA	INTERGENIC			
SNP_86400_A_125416	NW_004516276.1	scaffold931	125416	TT	CC	CC	INTERGENIC			
SNP_86401_A_125429	NW_004516276.1	scaffold931	125429	CC	AA	AA	INTERGENIC			
SNP_86402_A_125464	NW_004516276.1	scaffold931	125464	AA	GG	GG	INTERGENIC			
SNP_86403_A_125660	NW_004516276.1	scaffold931	125660	AA	GG	GG	INTERGENIC			
SNP_86404_A_125665	NW_004516276.1	scaffold931	125665	GG	AA	AA	INTERGENIC			
SNP_86405_A_144819	NW_004516276.1	scaffold931	144819	AA	GG	GG	INTERGENIC			
SNP_86406_A_152307	NW_004516276.1	scaffold931	152307	AA	GG	GG	INTERGENIC			
SNP_86407_A_152621	NW_004516276.1	scaffold931	152621	CC	GG	GG	INTERGENIC			
SNP_86408_A_152664	NW_004516276.1	scaffold931	152664	GG	AA	AA	INTERGENIC			
SNP_86409_A_152694	NW_004516276.1	scaffold931	152694	CC	TT	TT	INTERGENIC			
SNP_86410_A_152845	NW_004516276.1	scaffold931	152845	TT	CC	CC	INTERGENIC			
SNP_86411_A_152864	NW_004516276.1	scaffold931	152864	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86412_A_152871	NW_004516276.1	scaffold931	152871	CC	TT	TT	INTERGENIC			
SNP_86413_A_152991	NW_004516276.1	scaffold931	152991	AA	GG	GG	INTERGENIC			
SNP_86414_A_152998	NW_004516276.1	scaffold931	152998	AA	GG	GG	INTERGENIC			
SNP_86415_A_153003	NW_004516276.1	scaffold931	153003	GG	TT	TT	INTERGENIC			
SNP_86416_A_154963	NW_004516276.1	scaffold931	154963	CC	TT	TT	INTERGENIC			
SNP_86417_A_154972	NW_004516276.1	scaffold931	154972	CC	GG	GG	INTERGENIC			
SNP_86418_A_156449	NW_004516276.1	scaffold931	156449	TT	CC	CC	INTERGENIC			
SNP_86419_A_156453	NW_004516276.1	scaffold931	156453	AA	CC	CC	INTERGENIC			
SNP_86420_A_156486	NW_004516276.1	scaffold931	156486	AA	GG	GG	INTERGENIC			
SNP_86421_A_165480	NW_004516276.1	scaffold931	165480	CC	TT	TT	INTERGENIC			
SNP_86422_A_166074	NW_004516276.1	scaffold931	166074	TT	CC	CC	INTERGENIC			
SNP_86423_A_167037	NW_004516276.1	scaffold931	167037	GG	TT	TT	INTERGENIC			
SNP_86424_A_179733	NW_004516276.1	scaffold931	179733	AA	TT	TT	INTERGENIC			
SNP_86425_A_179978	NW_004516276.1	scaffold931	179978	CC	TT	TT	INTERGENIC			
SNP_86426_A_180018	NW_004516276.1	scaffold931	180018	TT	CC	CC	INTERGENIC			
SNP_86427_A_180088	NW_004516276.1	scaffold931	180088	AA	CC	CC	INTERGENIC			
SNP_86428_A_180260	NW_004516276.1	scaffold931	180260	AA	TT	TT	INTERGENIC			
SNP_86430_A_180614	NW_004516276.1	scaffold931	180614	AA	GG	GG	INTERGENIC			
SNP_86431_A_180647	NW_004516276.1	scaffold931	180647	CC	AA	AA	INTERGENIC			
SNP_86432_A_180668	NW_004516276.1	scaffold931	180668	TT	GG	GG	INTERGENIC			
SNP_86433_A_180707	NW_004516276.1	scaffold931	180707	AA	GG	GG	INTERGENIC			
SNP_86434_A_180851	NW_004516276.1	scaffold931	180851	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86435_A_181118	NW_004516276.1	scaffold931	181118	TT	AA	AA	INTERGENIC			
SNP_86436_A_181236	NW_004516276.1	scaffold931	181236	TT	AA	AA	INTERGENIC			
SNP_86438_A_181336	NW_004516276.1	scaffold931	181336	CC	TT	TT	INTERGENIC			
SNP_86439_A_181431	NW_004516276.1	scaffold931	181431	CC	AA	AA	INTERGENIC			
SNP_86441_A_181510	NW_004516276.1	scaffold931	181510	TT	AA	AA	INTERGENIC			
SNP_86442_A_181633	NW_004516276.1	scaffold931	181633	GG	AA	AA	INTERGENIC			
SNP_86443_A_181846	NW_004516276.1	scaffold931	181846	TT	GG	GG	INTERGENIC			
SNP_86444_A_190803	NW_004516276.1	scaffold931	190803	GG	AA	AA	INTERGENIC			
SNP_86445_A_191312	NW_004516276.1	scaffold931	191312	CC	GG	GG	INTERGENIC			
SNP_86446_A_197196	NW_004516276.1	scaffold931	197196	TT	CC	CC	INTERGENIC			
SNP_86447_A_202123	NW_004516276.1	scaffold931	202123	AA	TT	TT	INTERGENIC			
SNP_86448_A_202349	NW_004516276.1	scaffold931	202349	AA	GG	GG	INTERGENIC			
SNP_86449_A_202529	NW_004516276.1	scaffold931	202529	AA	CC	CC	INTERGENIC			
SNP_86450_A_202535	NW_004516276.1	scaffold931	202535	TT	AA	AA	INTERGENIC			
SNP_86451_A_218192	NW_004516276.1	scaffold931	218192	CC	TT	TT	INTERGENIC			
SNP_86452_A_240682	NW_004516276.1	scaffold931	240682	TT	CC	CC	INTERGENIC			
SNP_86453_A_240756	NW_004516276.1	scaffold931	240756	TT	AA	AA	INTERGENIC			
SNP_86454_A_241204	NW_004516276.1	scaffold931	241204	GG	TT	TT	INTERGENIC			
SNP_86455_A_243186	NW_004516276.1	scaffold931	243186	AA	GG	GG	INTERGENIC			
SNP_86456_A_244389	NW_004516276.1	scaffold931	244389	CC	AA	AA	INTERGENIC			
SNP_86458_A_244661	NW_004516276.1	scaffold931	244661	GG	AA	AA	INTERGENIC			
SNP_86460_A_247616	NW_004516276.1	scaffold931	247616	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86461_A_247624	NW_004516276.1	scaffold931	247624	TT	AA	AA	INTERGENIC			
SNP_86462_A_248215	NW_004516276.1	scaffold931	248215	AA	TT	TT	INTERGENIC			
SNP_86463_A_249533	NW_004516276.1	scaffold931	249533	GG	TT	TT	INTERGENIC			
SNP_86464_A_249706	NW_004516276.1	scaffold931	249706	TT	GG	GG	INTERGENIC			
SNP_86465_A_249823	NW_004516276.1	scaffold931	249823	GG	AA	AA	INTERGENIC			
SNP_86466_A_250067	NW_004516276.1	scaffold931	250067	TT	AA	AA	INTERGENIC			
SNP_86468_A_250561	NW_004516276.1	scaffold931	250561	GG	AA	AA	INTERGENIC			
SNP_86469_A_250591	NW_004516276.1	scaffold931	250591	TT	CC	CC	INTERGENIC			
SNP_86471_A_1784	NW_004516277.1	scaffold933	1784	CC	TT	TT	INTERGENIC			
SNP_86472_A_1936	NW_004516277.1	scaffold933	1936	TT	CC	CC	INTERGENIC			
SNP_86473_A_2531	NW_004516277.1	scaffold933	2531	TT	CC	CC	INTERGENIC			
SNP_86474_A_3037	NW_004516277.1	scaffold933	3037	AA	GG	GG	INTERGENIC			
SNP_86476_A_3670	NW_004516277.1	scaffold933	3670	CC	TT	TT	INTERGENIC			
SNP_86477_A_3865	NW_004516277.1	scaffold933	3865	TT	AA	AA	DRR	101505005	Unknown function	
SNP_86478_A_3918	NW_004516277.1	scaffold933	3918	AA	GG	GG	DRR	101505005	Unknown function	
SNP_86479_A_3944	NW_004516277.1	scaffold933	3944	GG	AA	AA	DRR	101505005	Unknown function	
SNP_86481_A_4600	NW_004516277.1	scaffold933	4600	TT	GG	GG	DRR	101505005	Unknown function	
SNP_86482_A_4617	NW_004516277.1	scaffold933	4617	TT	CC	CC	DRR	101505005	Unknown function	
SNP_86483_A_4788	NW_004516277.1	scaffold933	4788	AA	CC	CC	NON_SYNONYMOUS_CODING	101505005	Unknown function	
SNP_86484_A_4794	NW_004516277.1	scaffold933	4794	GG	AA	AA	NON_SYNONYMOUS_CODING	101505005	Unknown function	
SNP_86485_A_4832	NW_004516277.1	scaffold933	4832	GG	AA	AA	SYNONYMOUS_CODING	101505005	Unknown function	
SNP_86486_A_4924	NW_004516277.1	scaffold933	4924	AA	TT	TT	NON_SYNONYMOUS_CODING	101505005	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86487_A_5016	NW_004516277.1	scaffold933	5016	GG	AA	AA	NON_SYNONYMOUS_CODING	101505005	Unknown function
SNP_86488_A_5836	NW_004516277.1	scaffold933	5836	CC	AA	AA	URR	101505005	Unknown function
SNP_86489_A_3331	NW_004516278.1	scaffold934	3331	GG	AA	AA	INTERGENIC		
SNP_86490_A_3652	NW_004516278.1	scaffold934	3652	AA	TT	TT	INTERGENIC		
SNP_86491_A_25583	NW_004516279.1	scaffold937	25583	CC	AA	AA	INTRON	101508333	Unknown function
SNP_86492_A_25605	NW_004516279.1	scaffold937	25605	GG	TT	TT	INTRON	101508333	Unknown function
SNP_86493_A_28186	NW_004516279.1	scaffold937	28186	GG	AA	AA	NON_SYNONYMOUS_CODING	101508333	Unknown function
SNP_86494_A_75315	NW_004516279.1	scaffold937	75315	CC	TT	TT	INTERGENIC		
SNP_86495_A_80897	NW_004516279.1	scaffold937	80897	TT	CC	CC	INTERGENIC		
SNP_86496_A_133823	NW_004516279.1	scaffold937	133823	CC	GG	GG	INTRON	101506839	uncharacterized LOC101506839
SNP_86497_A_158184	NW_004516279.1	scaffold937	158184	GG	AA	AA	INTERGENIC		
SNP_86498_A_165361	NW_004516279.1	scaffold937	165361	TT	GG	GG	INTERGENIC		
SNP_86499_A_165371	NW_004516279.1	scaffold937	165371	TT	CC	CC	INTERGENIC		
SNP_86500_A_165414	NW_004516279.1	scaffold937	165414	AA	GG	GG	INTERGENIC		
SNP_86501_A_165722	NW_004516279.1	scaffold937	165722	GG	AA	AA	INTERGENIC		
SNP_86502_A_166941	NW_004516279.1	scaffold937	166941	TT	AA	AA	INTERGENIC		
SNP_86503_A_166968	NW_004516279.1	scaffold937	166968	GG	TT	TT	INTERGENIC		
SNP_86504_A_185175	NW_004516279.1	scaffold937	185175	GG	AA	AA	INTERGENIC		
SNP_86505_A_189368	NW_004516279.1	scaffold937	189368	AA	TT	TT	INTERGENIC		
SNP_86506_A_207201	NW_004516279.1	scaffold937	207201	GG	AA	AA	INTERGENIC		
SNP_86507_A_207207	NW_004516279.1	scaffold937	207207	CC	TT	TT	INTERGENIC		
SNP_86508_A_207230	NW_004516279.1	scaffold937	207230	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86509_A_207249	NW_004516279.1	scaffold937	207249	GG	AA	AA	INTERGENIC			
SNP_86510_A_207264	NW_004516279.1	scaffold937	207264	AA	CC	CC	INTERGENIC			
SNP_86511_A_207280	NW_004516279.1	scaffold937	207280	CC	TT	TT	INTERGENIC			
SNP_86512_A_207307	NW_004516279.1	scaffold937	207307	CC	TT	TT	INTERGENIC			
SNP_86513_A_207497	NW_004516279.1	scaffold937	207497	GG	AA	AA	INTERGENIC			
SNP_86514_A_207507	NW_004516279.1	scaffold937	207507	CC	TT	TT	INTERGENIC			
SNP_86515_A_207563	NW_004516279.1	scaffold937	207563	CC	GG	GG	INTERGENIC			
SNP_86516_A_207817	NW_004516279.1	scaffold937	207817	AA	CC	CC	INTERGENIC			
SNP_86517_A_207819	NW_004516279.1	scaffold937	207819	CC	TT	TT	INTERGENIC			
SNP_86518_A_699	NW_004516281.1	scaffold939	699	GG	TT	TT	INTERGENIC			
SNP_86519_A_934	NW_004516281.1	scaffold939	934	TT	GG	GG	INTERGENIC			
SNP_86520_A_978	NW_004516281.1	scaffold939	978	CC	TT	TT	INTERGENIC			
SNP_86522_A_1233	NW_004516281.1	scaffold939	1233	AA	TT	TT	INTERGENIC			
SNP_86523_A_1290	NW_004516281.1	scaffold939	1290	CC	TT	TT	INTERGENIC			
SNP_86524_A_1306	NW_004516281.1	scaffold939	1306	AA	GG	GG	INTERGENIC			
SNP_86525_A_1313	NW_004516281.1	scaffold939	1313	CC	TT	TT	INTERGENIC			
SNP_86526_A_42851	NW_004516283.1	scaffold943	42851	TT	CC	CC	INTERGENIC			
SNP_86527_A_42873	NW_004516283.1	scaffold943	42873	GG	AA	AA	INTERGENIC			
SNP_86528_A_42915	NW_004516283.1	scaffold943	42915	AA	TT	TT	INTERGENIC			
SNP_86530_A_42920	NW_004516283.1	scaffold943	42920	CC	AA	AA	INTERGENIC			
SNP_86531_A_42930	NW_004516283.1	scaffold943	42930	AA	TT	TT	INTERGENIC			
SNP_86532_A_42938	NW_004516283.1	scaffold943	42938	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86533_A_42983	NW_004516283.1	scaffold943	42983	TT	GG	GG	INTERGENIC			
SNP_86534_A_43000	NW_004516283.1	scaffold943	43000	TT	CC	CC	INTERGENIC			
SNP_86535_A_43097	NW_004516283.1	scaffold943	43097	CC	TT	TT	INTERGENIC			
SNP_86537_A_144498	NW_004516283.1	scaffold943	144498	AA	TT	TT	INTERGENIC			
SNP_86538_A_144500	NW_004516283.1	scaffold943	144500	TT	AA	AA	INTERGENIC			
SNP_86539_A_162835	NW_004516283.1	scaffold943	162835	TT	CC	CC	INTERGENIC			
SNP_86540_A_162848	NW_004516283.1	scaffold943	162848	GG	TT	TT	INTERGENIC			
SNP_86541_A_163031	NW_004516283.1	scaffold943	163031	CC	AA	AA	INTERGENIC			
SNP_86543_A_163086	NW_004516283.1	scaffold943	163086	AA	TT	TT	INTERGENIC			
SNP_86544_A_163406	NW_004516283.1	scaffold943	163406	TT	CC	CC	INTERGENIC			
SNP_86545_A_165619	NW_004516283.1	scaffold943	165619	TT	CC	CC	INTERGENIC			
SNP_86546_A_235876	NW_004516283.1	scaffold943	235876	TT	AA	AA	INTERGENIC			
SNP_86547_A_263317	NW_004516283.1	scaffold943	263317	CC	TT	TT	INTERGENIC			
SNP_86548_A_264121	NW_004516283.1	scaffold943	264121	GG	AA	AA	INTERGENIC			
SNP_86549_A_265675	NW_004516283.1	scaffold943	265675	AA	GG	GG	INTERGENIC			
SNP_86550_A_267676	NW_004516283.1	scaffold943	267676	TT	CC	CC	INTERGENIC			
SNP_86551_A_267728	NW_004516283.1	scaffold943	267728	GG	CC	CC	INTERGENIC			
SNP_86553_A_226	NW_004516284.1	scaffold944	226	GG	AA	AA	INTERGENIC			
SNP_86554_A_296	NW_004516284.1	scaffold944	296	GG	AA	AA	INTERGENIC			
SNP_86555_A_521	NW_004516284.1	scaffold944	521	GG	AA	AA	INTERGENIC			
SNP_86556_A_528	NW_004516284.1	scaffold944	528	TT	CC	CC	INTERGENIC			
SNP_86557_A_610	NW_004516284.1	scaffold944	610	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86559_A_703	NW_004516284.1	scaffold944	703	CC	AA	AA	INTERGENIC			
SNP_86560_A_752	NW_004516284.1	scaffold944	752	CC	GG	GG	INTERGENIC			
SNP_86561_A_803	NW_004516284.1	scaffold944	803	GG	AA	AA	INTERGENIC			
SNP_86562_A_879	NW_004516284.1	scaffold944	879	GG	TT	TT	INTERGENIC			
SNP_86563_A_1405	NW_004516284.1	scaffold944	1405	CC	TT	TT	INTERGENIC			
SNP_86564_A_1518	NW_004516284.1	scaffold944	1518	TT	CC	CC	INTERGENIC			
SNP_86565_A_1724	NW_004516284.1	scaffold944	1724	TT	CC	CC	INTERGENIC			
SNP_86566_A_1725	NW_004516284.1	scaffold944	1725	GG	TT	TT	INTERGENIC			
SNP_86567_A_1733	NW_004516284.1	scaffold944	1733	AA	GG	GG	INTERGENIC			
SNP_86568_A_1849	NW_004516284.1	scaffold944	1849	AA	GG	GG	INTERGENIC			
SNP_86569_A_2104	NW_004516284.1	scaffold944	2104	CC	GG	GG	INTERGENIC			
SNP_86570_A_2352	NW_004516284.1	scaffold944	2352	TT	AA	AA	INTERGENIC			
SNP_86572_A_2442	NW_004516284.1	scaffold944	2442	AA	GG	GG	INTERGENIC			
SNP_86574_A_2587	NW_004516284.1	scaffold944	2587	CC	TT	TT	INTERGENIC			
SNP_86575_A_2732	NW_004516284.1	scaffold944	2732	AA	TT	TT	INTERGENIC			
SNP_86576_A_2868	NW_004516284.1	scaffold944	2868	GG	CC	CC	INTERGENIC			
SNP_86579_A_3330	NW_004516284.1	scaffold944	3330	GG	AA	AA	INTERGENIC			
SNP_86581_A_3358	NW_004516284.1	scaffold944	3358	TT	CC	CC	INTERGENIC			
SNP_86582_A_3461	NW_004516284.1	scaffold944	3461	CC	GG	GG	INTERGENIC			
SNP_86583_A_3636	NW_004516284.1	scaffold944	3636	GG	AA	AA	INTERGENIC			
SNP_86584_A_2212	NW_004516285.1	scaffold945	2212	CC	GG	GG	INTERGENIC			
SNP_86586_A_2539	NW_004516285.1	scaffold945	2539	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86587_A_2549	NW_004516285.1	scaffold945	2549	CC	TT	TT	INTERGENIC			
SNP_86588_A_2556	NW_004516285.1	scaffold945	2556	CC	AA	AA	INTERGENIC			
SNP_86589_A_64	NW_004516287.1	scaffold948	64	CC	TT	TT	INTERGENIC			
SNP_86590_A_80	NW_004516287.1	scaffold948	80	CC	AA	AA	INTERGENIC			
SNP_86591_A_94	NW_004516287.1	scaffold948	94	AA	GG	GG	INTERGENIC			
SNP_86592_A_120	NW_004516287.1	scaffold948	120	AA	GG	GG	INTERGENIC			
SNP_86593_A_182	NW_004516287.1	scaffold948	182	AA	CC	CC	INTERGENIC			
SNP_86594_A_295	NW_004516287.1	scaffold948	295	AA	CC	CC	INTERGENIC			
SNP_86595_A_429	NW_004516287.1	scaffold948	429	CC	AA	AA	INTERGENIC			
SNP_86596_A_504	NW_004516287.1	scaffold948	504	GG	AA	AA	INTERGENIC			
SNP_86597_A_506	NW_004516287.1	scaffold948	506	CC	AA	AA	INTERGENIC			
SNP_86598_A_533	NW_004516287.1	scaffold948	533	TT	CC	CC	INTERGENIC			
SNP_86599_A_576	NW_004516287.1	scaffold948	576	CC	AA	AA	INTERGENIC			
SNP_86600_A_593	NW_004516287.1	scaffold948	593	CC	AA	AA	INTERGENIC			
SNP_86601_A_750	NW_004516287.1	scaffold948	750	GG	CC	CC	INTERGENIC			
SNP_86602_A_809	NW_004516287.1	scaffold948	809	GG	AA	AA	INTERGENIC			
SNP_86603_A_892	NW_004516287.1	scaffold948	892	CC	AA	AA	INTERGENIC			
SNP_86604_A_893	NW_004516287.1	scaffold948	893	TT	GG	GG	INTERGENIC			
SNP_86605_A_1183	NW_004516287.1	scaffold948	1183	GG	CC	CC	INTERGENIC			
SNP_86606_A_1239	NW_004516287.1	scaffold948	1239	TT	AA	AA	INTERGENIC			
SNP_86607_A_1473	NW_004516287.1	scaffold948	1473	GG	AA	AA	DRR	101510901	uncharacterized LOC101510901	
SNP_86608_A_1652	NW_004516287.1	scaffold948	1652	CC	GG	GG	DRR	101510901	uncharacterized LOC101510901	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86609_A_1772	NW_004516287.1	scaffold948	1772	CC	AA	AA	DRR	101510901	uncharacterized LOC101510901
SNP_86610_A_1786	NW_004516287.1	scaffold948	1786	AA	GG	GG	DRR	101510901	uncharacterized LOC101510901
SNP_86611_A_1821	NW_004516287.1	scaffold948	1821	TT	GG	GG	DRR	101510901	uncharacterized LOC101510901
SNP_86612_A_23147	NW_004516287.1	scaffold948	23147	CC	TT	TT	URR	101510901	uncharacterized LOC101510901
SNP_86613_A_30684	NW_004516287.1	scaffold948	30684	GG	AA	AA	INTERGENIC		
SNP_86614_A_52358	NW_004516287.1	scaffold948	52358	AA	GG	GG	INTERGENIC		
SNP_86615_A_52522	NW_004516287.1	scaffold948	52522	GG	AA	AA	INTERGENIC		
SNP_86616_A_52531	NW_004516287.1	scaffold948	52531	TT	AA	AA	INTERGENIC		
SNP_86617_A_52759	NW_004516287.1	scaffold948	52759	TT	CC	CC	INTERGENIC		
SNP_86618_A_52975	NW_004516287.1	scaffold948	52975	TT	CC	CC	INTERGENIC		
SNP_86619_A_52981	NW_004516287.1	scaffold948	52981	GG	AA	AA	INTERGENIC		
SNP_86620_A_53033	NW_004516287.1	scaffold948	53033	GG	AA	AA	INTERGENIC		
SNP_86621_A_53050	NW_004516287.1	scaffold948	53050	AA	GG	GG	INTERGENIC		
SNP_86622_A_59122	NW_004516287.1	scaffold948	59122	CC	TT	TT	INTERGENIC		
SNP_86623_A_67115	NW_004516287.1	scaffold948	67115	GG	AA	AA	INTERGENIC		
SNP_86624_A_69141	NW_004516287.1	scaffold948	69141	TT	AA	AA	INTERGENIC		
SNP_86627_A_147675	NW_004516287.1	scaffold948	147675	GG	TT	TT	INTERGENIC		
SNP_86628_A_148163	NW_004516287.1	scaffold948	148163	CC	TT	TT	INTERGENIC		
SNP_86629_A_148297	NW_004516287.1	scaffold948	148297	TT	GG	GG	INTERGENIC		
SNP_86630_A_148334	NW_004516287.1	scaffold948	148334	CC	TT	TT	INTERGENIC		
SNP_86631_A_148364	NW_004516287.1	scaffold948	148364	CC	TT	TT	INTERGENIC		
SNP_86632_A_148368	NW_004516287.1	scaffold948	148368	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86633_A_148435	NW_004516287.1	scaffold948	148435	GG	CC	CC	INTERGENIC		
SNP_86634_A_154260	NW_004516287.1	scaffold948	154260	TT	CC	CC	INTERGENIC		
SNP_86635_A_161577	NW_004516287.1	scaffold948	161577	AA	GG	GG	INTERGENIC		
SNP_86636_A_180093	NW_004516287.1	scaffold948	180093	CC	GG	GG	INTERGENIC		
SNP_86637_A_180113	NW_004516287.1	scaffold948	180113	TT	GG	GG	INTERGENIC		
SNP_86638_A_180263	NW_004516287.1	scaffold948	180263	GG	AA	AA	INTERGENIC		
SNP_86639_A_180330	NW_004516287.1	scaffold948	180330	GG	AA	AA	INTERGENIC		
SNP_86640_A_189441	NW_004516287.1	scaffold948	189441	AA	TT	TT	INTERGENIC		
SNP_86641_A_189448	NW_004516287.1	scaffold948	189448	CC	TT	TT	INTERGENIC		
SNP_86642_A_189455	NW_004516287.1	scaffold948	189455	AA	GG	GG	INTERGENIC		
SNP_86643_A_189459	NW_004516287.1	scaffold948	189459	TT	GG	GG	INTERGENIC		
SNP_86644_A_3625	NW_004516288.1	scaffold949	3625	GG	AA	AA	SYNONYMOUS_CODING	101513778	Unknown function
SNP_86645_A_3708	NW_004516288.1	scaffold949	3708	AA	GG	GG	NON_SYNONYMOUS_CODING	101513778	Unknown function
SNP_86647_A_3850	NW_004516288.1	scaffold949	3850	TT	CC	CC	DRR	101513778	Unknown function
SNP_86648_A_3934	NW_004516288.1	scaffold949	3934	CC	TT	TT	DRR	101513778	Unknown function
SNP_86649_A_3950	NW_004516288.1	scaffold949	3950	AA	TT	TT	DRR	101513778	Unknown function
SNP_86650_A_3983	NW_004516288.1	scaffold949	3983	AA	TT	TT	URR	101513778	Unknown function
SNP_86651_A_4041	NW_004516288.1	scaffold949	4041	CC	TT	TT	URR	101513778	Unknown function
SNP_86652_A_4043	NW_004516288.1	scaffold949	4043	AA	GG	GG	URR	101513778	Unknown function
SNP_86653_A_12386	NW_004516288.1	scaffold949	12386	CC	TT	TT	INTERGENIC		
SNP_86654_A_12401	NW_004516288.1	scaffold949	12401	TT	GG	GG	INTERGENIC		
SNP_86655_A_12416	NW_004516288.1	scaffold949	12416	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86657_A_26186	NW_004516288.1	scaffold949	26186	GG	TT	TT	INTERGENIC			
SNP_86658_A_26293	NW_004516288.1	scaffold949	26293	CC	TT	TT	INTERGENIC			
SNP_86659_A_26295	NW_004516288.1	scaffold949	26295	CC	TT	TT	INTERGENIC			
SNP_86660_A_26299	NW_004516288.1	scaffold949	26299	CC	TT	TT	INTERGENIC			
SNP_86661_A_26403	NW_004516288.1	scaffold949	26403	TT	CC	CC	INTERGENIC			
SNP_86662_A_26457	NW_004516288.1	scaffold949	26457	GG	TT	TT	INTERGENIC			
SNP_86663_A_26528	NW_004516288.1	scaffold949	26528	TT	AA	AA	INTERGENIC			
SNP_86664_A_26529	NW_004516288.1	scaffold949	26529	GG	TT	TT	INTERGENIC			
SNP_86666_A_26627	NW_004516288.1	scaffold949	26627	AA	GG	GG	INTERGENIC			
SNP_86667_A_26629	NW_004516288.1	scaffold949	26629	TT	GG	GG	INTERGENIC			
SNP_86668_A_26630	NW_004516288.1	scaffold949	26630	AA	TT	TT	INTERGENIC			
SNP_86669_A_26696	NW_004516288.1	scaffold949	26696	GG	CC	CC	INTERGENIC			
SNP_86670_A_26718	NW_004516288.1	scaffold949	26718	CC	GG	GG	INTERGENIC			
SNP_86671_A_26728	NW_004516288.1	scaffold949	26728	GG	AA	AA	INTERGENIC			
SNP_86672_A_26752	NW_004516288.1	scaffold949	26752	CC	TT	TT	INTERGENIC			
SNP_86673_A_26792	NW_004516288.1	scaffold949	26792	AA	TT	TT	INTERGENIC			
SNP_86674_A_26794	NW_004516288.1	scaffold949	26794	AA	TT	TT	INTERGENIC			
SNP_86675_A_26801	NW_004516288.1	scaffold949	26801	TT	CC	CC	INTERGENIC			
SNP_86676_A_26882	NW_004516288.1	scaffold949	26882	TT	AA	AA	INTERGENIC			
SNP_86677_A_26904	NW_004516288.1	scaffold949	26904	AA	CC	CC	INTERGENIC			
SNP_86678_A_27106	NW_004516288.1	scaffold949	27106	CC	AA	AA	INTERGENIC			
SNP_86679_A_27136	NW_004516288.1	scaffold949	27136	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86680_A_27143	NW_004516288.1	scaffold949	27143	CC	TT	TT	INTERGENIC			
SNP_86681_A_72153	NW_004516288.1	scaffold949	72153	AA	CC	CC	INTERGENIC			
SNP_86682_A_86261	NW_004516288.1	scaffold949	86261	GG	AA	AA	INTERGENIC			
SNP_86683_A_88331	NW_004516288.1	scaffold949	88331	GG	TT	TT	INTERGENIC			
SNP_86684_A_88339	NW_004516288.1	scaffold949	88339	TT	GG	GG	INTERGENIC			
SNP_86685_A_88374	NW_004516288.1	scaffold949	88374	GG	TT	TT	INTERGENIC			
SNP_86686_A_88394	NW_004516288.1	scaffold949	88394	GG	AA	AA	INTERGENIC			
SNP_86687_A_102195	NW_004516288.1	scaffold949	102195	AA	GG	GG	INTERGENIC			
SNP_86688_A_102261	NW_004516288.1	scaffold949	102261	AA	GG	GG	INTERGENIC			
SNP_86689_A_103608	NW_004516288.1	scaffold949	103608	TT	AA	AA	INTERGENIC			
SNP_86690_A_103646	NW_004516288.1	scaffold949	103646	AA	TT	TT	INTERGENIC			
SNP_86691_A_103659	NW_004516288.1	scaffold949	103659	CC	GG	GG	INTERGENIC			
SNP_86692_A_103851	NW_004516288.1	scaffold949	103851	CC	AA	AA	INTERGENIC			
SNP_86693_A_103868	NW_004516288.1	scaffold949	103868	CC	TT	TT	INTERGENIC			
SNP_86694_A_103875	NW_004516288.1	scaffold949	103875	TT	GG	GG	INTERGENIC			
SNP_86695_A_103977	NW_004516288.1	scaffold949	103977	TT	AA	AA	INTERGENIC			
SNP_86696_A_104095	NW_004516288.1	scaffold949	104095	CC	TT	TT	INTERGENIC			
SNP_86697_A_104196	NW_004516288.1	scaffold949	104196	GG	TT	TT	INTERGENIC			
SNP_86698_A_104362	NW_004516288.1	scaffold949	104362	TT	AA	AA	INTERGENIC			
SNP_86699_A_104638	NW_004516288.1	scaffold949	104638	GG	AA	AA	INTERGENIC			
SNP_86700_A_105373	NW_004516288.1	scaffold949	105373	AA	TT	TT	INTERGENIC			
SNP_86701_A_105411	NW_004516288.1	scaffold949	105411	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86702_A_105415	NW_004516288.1	scaffold949	105415	TT	AA	AA	INTERGENIC			
SNP_86703_A_112328	NW_004516288.1	scaffold949	112328	TT	CC	CC	INTERGENIC			
SNP_86704_A_114098	NW_004516288.1	scaffold949	114098	AA	GG	GG	INTERGENIC			
SNP_86705_A_114486	NW_004516288.1	scaffold949	114486	TT	AA	AA	INTERGENIC			
SNP_86706_A_117660	NW_004516288.1	scaffold949	117660	CC	AA	AA	INTERGENIC			
SNP_86707_A_132017	NW_004516288.1	scaffold949	132017	AA	TT	TT	INTERGENIC			
SNP_86708_A_142322	NW_004516288.1	scaffold949	142322	GG	AA	AA	INTERGENIC			
SNP_86709_A_142335	NW_004516288.1	scaffold949	142335	AA	TT	TT	INTERGENIC			
SNP_86710_A_142352	NW_004516288.1	scaffold949	142352	AA	TT	TT	INTERGENIC			
SNP_86711_A_142368	NW_004516288.1	scaffold949	142368	TT	AA	AA	INTERGENIC			
SNP_86712_A_142369	NW_004516288.1	scaffold949	142369	AA	TT	TT	INTERGENIC			
SNP_86713_A_142386	NW_004516288.1	scaffold949	142386	AA	TT	TT	INTERGENIC			
SNP_86714_A_142400	NW_004516288.1	scaffold949	142400	TT	CC	CC	INTERGENIC			
SNP_86715_A_142535	NW_004516288.1	scaffold949	142535	GG	AA	AA	INTERGENIC			
SNP_86716_A_142546	NW_004516288.1	scaffold949	142546	GG	AA	AA	INTERGENIC			
SNP_86717_A_142559	NW_004516288.1	scaffold949	142559	CC	TT	TT	INTERGENIC			
SNP_86718_A_142562	NW_004516288.1	scaffold949	142562	CC	TT	TT	INTERGENIC			
SNP_86719_A_142581	NW_004516288.1	scaffold949	142581	AA	TT	TT	INTERGENIC			
SNP_86720_A_142616	NW_004516288.1	scaffold949	142616	TT	CC	CC	INTERGENIC			
SNP_86721_A_597	NW_004516289.1	scaffold950	597	CC	TT	TT	INTERGENIC			
SNP_86722_A_727	NW_004516289.1	scaffold950	727	TT	AA	AA	INTERGENIC			
SNP_86723_A_868	NW_004516289.1	scaffold950	868	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86724_A_1335	NW_004516289.1	scaffold950	1335	AA	TT	TT	INTERGENIC			
SNP_86725_A_1394	NW_004516289.1	scaffold950	1394	TT	GG	GG	INTERGENIC			
SNP_86726_A_1545	NW_004516289.1	scaffold950	1545	AA	GG	GG	INTERGENIC			
SNP_86727_A_1546	NW_004516289.1	scaffold950	1546	GG	TT	TT	INTERGENIC			
SNP_86728_A_1776	NW_004516289.1	scaffold950	1776	GG	AA	AA	INTERGENIC			
SNP_86729_A_1845	NW_004516289.1	scaffold950	1845	AA	GG	GG	INTERGENIC			
SNP_86730_A_1923	NW_004516289.1	scaffold950	1923	AA	GG	GG	INTERGENIC			
SNP_86731_A_1945	NW_004516289.1	scaffold950	1945	GG	TT	TT	INTERGENIC			
SNP_86732_A_2047	NW_004516289.1	scaffold950	2047	AA	GG	GG	INTERGENIC			
SNP_86733_A_2093	NW_004516289.1	scaffold950	2093	GG	AA	AA	INTERGENIC			
SNP_86734_A_2203	NW_004516289.1	scaffold950	2203	CC	GG	GG	INTERGENIC			
SNP_86735_A_2234	NW_004516289.1	scaffold950	2234	GG	AA	AA	INTERGENIC			
SNP_86736_A_2252	NW_004516289.1	scaffold950	2252	AA	TT	TT	INTERGENIC			
SNP_86737_A_2323	NW_004516289.1	scaffold950	2323	AA	GG	GG	INTERGENIC			
SNP_86738_A_2335	NW_004516289.1	scaffold950	2335	AA	GG	GG	INTERGENIC			
SNP_86739_A_2355	NW_004516289.1	scaffold950	2355	AA	CC	CC	INTERGENIC			
SNP_86740_A_2373	NW_004516289.1	scaffold950	2373	AA	GG	GG	INTERGENIC			
SNP_86741_A_2411	NW_004516289.1	scaffold950	2411	TT	CC	CC	INTERGENIC			
SNP_86742_A_2500	NW_004516289.1	scaffold950	2500	AA	GG	GG	INTERGENIC			
SNP_86743_A_3540	NW_004516289.1	scaffold950	3540	GG	AA	AA	INTERGENIC			
SNP_86744_A_3569	NW_004516289.1	scaffold950	3569	AA	GG	GG	INTERGENIC			
SNP_86745_A_3626	NW_004516289.1	scaffold950	3626	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86746_A_3632	NW_004516289.1	scaffold950	3632	TT	GG	GG	INTERGENIC			
SNP_86747_A_3699	NW_004516289.1	scaffold950	3699	GG	TT	TT	INTERGENIC			
SNP_86748_A_3798	NW_004516289.1	scaffold950	3798	AA	GG	GG	INTERGENIC			
SNP_86749_A_3929	NW_004516289.1	scaffold950	3929	AA	CC	CC	INTERGENIC			
SNP_86750_A_4008	NW_004516289.1	scaffold950	4008	TT	CC	CC	INTERGENIC			
SNP_86751_A_6618	NW_004516289.1	scaffold950	6618	AA	GG	GG	INTERGENIC			
SNP_86752_A_17799	NW_004516289.1	scaffold950	17799	GG	TT	TT	INTERGENIC			
SNP_86753_A_17904	NW_004516289.1	scaffold950	17904	GG	AA	AA	INTERGENIC			
SNP_86754_A_17959	NW_004516289.1	scaffold950	17959	GG	CC	CC	INTERGENIC			
SNP_86755_A_29328	NW_004516289.1	scaffold950	29328	AA	CC	CC	INTERGENIC			
SNP_86756_A_35203	NW_004516289.1	scaffold950	35203	TT	CC	CC	INTERGENIC			
SNP_86757_A_18888	NW_004516290.1	scaffold951	18888	AA	CC	CC	INTERGENIC			
SNP_86758_A_18889	NW_004516290.1	scaffold951	18889	GG	AA	AA	INTERGENIC			
SNP_86759_A_39336	NW_004516290.1	scaffold951	39336	AA	CC	CC	INTERGENIC			
SNP_86760_A_17167	NW_004516291.1	scaffold952	17167	GG	TT	TT	INTERGENIC			
SNP_86761_A_18262	NW_004516291.1	scaffold952	18262	CC	TT	TT	INTERGENIC			
SNP_86762_A_18671	NW_004516291.1	scaffold952	18671	CC	TT	TT	INTERGENIC			
SNP_86763_A_19019	NW_004516291.1	scaffold952	19019	TT	GG	GG	INTERGENIC			
SNP_86764_A_19068	NW_004516291.1	scaffold952	19068	CC	TT	TT	INTERGENIC			
SNP_86765_A_19321	NW_004516291.1	scaffold952	19321	GG	CC	CC	INTERGENIC			
SNP_86766_A_19336	NW_004516291.1	scaffold952	19336	AA	GG	GG	INTERGENIC			
SNP_86767_A_19398	NW_004516291.1	scaffold952	19398	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86768_A_27824	NW_004516291.1	scaffold952	27824	AA	GG	GG	INTERGENIC		
SNP_86769_A_27842	NW_004516291.1	scaffold952	27842	CC	TT	TT	INTERGENIC		
SNP_86770_A_27843	NW_004516291.1	scaffold952	27843	AA	TT	TT	INTERGENIC		
SNP_86771_A_27888	NW_004516291.1	scaffold952	27888	AA	CC	CC	INTERGENIC		
SNP_86772_A_27889	NW_004516291.1	scaffold952	27889	CC	AA	AA	INTERGENIC		
SNP_86773_A_27890	NW_004516291.1	scaffold952	27890	AA	GG	GG	INTERGENIC		
SNP_86774_A_27891	NW_004516291.1	scaffold952	27891	CC	TT	TT	INTERGENIC		
SNP_86775_A_27908	NW_004516291.1	scaffold952	27908	CC	TT	TT	INTERGENIC		
SNP_86776_A_27915	NW_004516291.1	scaffold952	27915	AA	GG	GG	INTERGENIC		
SNP_86777_A_27925	NW_004516291.1	scaffold952	27925	GG	TT	TT	INTERGENIC		
SNP_86778_A_27926	NW_004516291.1	scaffold952	27926	TT	CC	CC	INTERGENIC		
SNP_86779_A_41822	NW_004516291.1	scaffold952	41822	GG	AA	AA	INTRON	101514770	uncharacterized LOC101514770
SNP_86780_A_42196	NW_004516291.1	scaffold952	42196	TT	CC	CC	INTRON	101514770	uncharacterized LOC101514770
SNP_86781_A_560	NW_004516292.1	scaffold953	560	TT	AA	AA	INTERGENIC		
SNP_86782_A_581	NW_004516292.1	scaffold953	581	TT	CC	CC	INTERGENIC		
SNP_86783_A_660	NW_004516292.1	scaffold953	660	GG	AA	AA	INTERGENIC		
SNP_86784_A_705	NW_004516292.1	scaffold953	705	CC	GG	GG	INTERGENIC		
SNP_86785_A_7721	NW_004516292.1	scaffold953	7721	CC	TT	TT	INTERGENIC		
SNP_86786_A_11864	NW_004516292.1	scaffold953	11864	AA	CC	CC	INTERGENIC		
SNP_86788_A_17889	NW_004516292.1	scaffold953	17889	GG	AA	AA	INTERGENIC		
SNP_86789_A_18323	NW_004516292.1	scaffold953	18323	AA	GG	GG	INTERGENIC		
SNP_86790_A_19412	NW_004516292.1	scaffold953	19412	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86791_A_24067	NW_004516292.1	scaffold953	24067	GG	TT	TT	STOP_GAINED	101515751	uncharacterized LOC101515751
SNP_86792_A_25285	NW_004516292.1	scaffold953	25285	GG	CC	CC	INTRON	101515751	uncharacterized LOC101515751
SNP_86793_A_29714	NW_004516292.1	scaffold953	29714	CC	TT	TT	URR	101515751	uncharacterized LOC101515751
SNP_86794_A_29751	NW_004516292.1	scaffold953	29751	AA	CC	CC	URR	101515751	uncharacterized LOC101515751
SNP_86795_A_29780	NW_004516292.1	scaffold953	29780	TT	CC	CC	URR	101515751	uncharacterized LOC101515751
SNP_86796_A_29867	NW_004516292.1	scaffold953	29867	GG	AA	AA	URR	101515751	uncharacterized LOC101515751
SNP_86797_A_29934	NW_004516292.1	scaffold953	29934	TT	CC	CC	URR	101515751	uncharacterized LOC101515751
SNP_86798_A_30035	NW_004516292.1	scaffold953	30035	GG	AA	AA	URR	101515751	uncharacterized LOC101515751
SNP_86799_A_30116	NW_004516292.1	scaffold953	30116	TT	GG	GG	URR	101515751	uncharacterized LOC101515751
SNP_86800_A_30154	NW_004516292.1	scaffold953	30154	CC	TT	TT	URR	101515751	uncharacterized LOC101515751
SNP_86801_A_30156	NW_004516292.1	scaffold953	30156	AA	GG	GG	URR	101515751	uncharacterized LOC101515751
SNP_86802_A_31817	NW_004516292.1	scaffold953	31817	CC	TT	TT	URR	101488511	Unknown function
SNP_86803_A_31873	NW_004516292.1	scaffold953	31873	AA	GG	GG	URR	101488511	Unknown function
SNP_86804_A_33219	NW_004516292.1	scaffold953	33219	CC	GG	GG	INTERGENIC		
SNP_86805_A_34026	NW_004516292.1	scaffold953	34026	TT	AA	AA	INTERGENIC		
SNP_86806_A_34122	NW_004516292.1	scaffold953	34122	GG	CC	CC	INTERGENIC		
SNP_86807_A_35361	NW_004516292.1	scaffold953	35361	TT	AA	AA	INTERGENIC		
SNP_86808_A_35890	NW_004516292.1	scaffold953	35890	CC	GG	GG	INTERGENIC		
SNP_86810_A_37129	NW_004516292.1	scaffold953	37129	GG	AA	AA	INTERGENIC		
SNP_86811_A_37898	NW_004516292.1	scaffold953	37898	CC	TT	TT	INTERGENIC		
SNP_86812_A_38226	NW_004516292.1	scaffold953	38226	TT	AA	AA	INTERGENIC		
SNP_86813_A_38228	NW_004516292.1	scaffold953	38228	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_86815_A_40473	NW_004516292.1	scaffold953	40473	AA	TT	TT	INTERGENIC		
SNP_86816_A_44171	NW_004516292.1	scaffold953	44171	GG	AA	AA	INTERGENIC		
SNP_86819_A_46675	NW_004516292.1	scaffold953	46675	TT	CC	CC	INTERGENIC		
SNP_86820_A_52215	NW_004516292.1	scaffold953	52215	TT	CC	CC	INTERGENIC		
SNP_86821_A_53238	NW_004516292.1	scaffold953	53238	CC	TT	TT	INTERGENIC		
SNP_86822_A_53530	NW_004516292.1	scaffold953	53530	TT	CC	CC	INTERGENIC		
SNP_86823_A_53608	NW_004516292.1	scaffold953	53608	TT	CC	CC	INTERGENIC		
SNP_86824_A_58063	NW_004516292.1	scaffold953	58063	GG	TT	TT	INTERGENIC		
SNP_86825_A_60219	NW_004516292.1	scaffold953	60219	TT	AA	AA	INTERGENIC		
SNP_86827_A_64721	NW_004516292.1	scaffold953	64721	TT	CC	CC	INTERGENIC		
SNP_86828_A_65173	NW_004516292.1	scaffold953	65173	AA	GG	GG	INTERGENIC		
SNP_86829_A_65358	NW_004516292.1	scaffold953	65358	GG	AA	AA	INTERGENIC		
SNP_86830_A_69376	NW_004516292.1	scaffold953	69376	GG	AA	AA	INTERGENIC		
SNP_86832_A_69782	NW_004516292.1	scaffold953	69782	CC	AA	AA	INTERGENIC		
SNP_86833_A_70804	NW_004516292.1	scaffold953	70804	CC	TT	TT	INTERGENIC		
SNP_86834_A_71083	NW_004516292.1	scaffold953	71083	AA	CC	CC	INTERGENIC		
SNP_86835_A_74822	NW_004516292.1	scaffold953	74822	TT	CC	CC	URR	101515095	Unknown function
SNP_86839_A_79939	NW_004516292.1	scaffold953	79939	CC	GG	GG	INTERGENIC		
SNP_86840_A_82922	NW_004516292.1	scaffold953	82922	TT	CC	CC	INTERGENIC		
SNP_86841_A_83525	NW_004516292.1	scaffold953	83525	TT	GG	GG	INTERGENIC		
SNP_86842_A_85871	NW_004516292.1	scaffold953	85871	CC	TT	TT	INTERGENIC		
SNP_86843_A_86890	NW_004516292.1	scaffold953	86890	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86844_A_89505	NW_004516292.1	scaffold953	89505	GG	AA	AA	INTERGENIC			
SNP_86845_A_94308	NW_004516292.1	scaffold953	94308	AA	GG	GG	INTERGENIC			
SNP_86846_A_94327	NW_004516292.1	scaffold953	94327	AA	TT	TT	INTERGENIC			
SNP_86847_A_96170	NW_004516292.1	scaffold953	96170	CC	GG	GG	INTERGENIC			
SNP_86848_A_97889	NW_004516292.1	scaffold953	97889	CC	TT	TT	INTERGENIC			
SNP_86849_A_104963	NW_004516292.1	scaffold953	104963	AA	GG	GG	INTERGENIC			
SNP_86850_A_105387	NW_004516292.1	scaffold953	105387	AA	CC	CC	INTERGENIC			
SNP_86851_A_105429	NW_004516292.1	scaffold953	105429	CC	TT	TT	INTERGENIC			
SNP_86852_A_106288	NW_004516292.1	scaffold953	106288	CC	AA	AA	INTERGENIC			
SNP_86853_A_111190	NW_004516292.1	scaffold953	111190	AA	GG	GG	INTERGENIC			
SNP_86854_A_111461	NW_004516292.1	scaffold953	111461	GG	CC	CC	INTERGENIC			
SNP_86855_A_111468	NW_004516292.1	scaffold953	111468	AA	GG	GG	INTERGENIC			
SNP_86856_A_111649	NW_004516292.1	scaffold953	111649	TT	GG	GG	INTERGENIC			
SNP_86857_A_112893	NW_004516292.1	scaffold953	112893	CC	TT	TT	INTERGENIC			
SNP_86858_A_119086	NW_004516292.1	scaffold953	119086	CC	TT	TT	INTERGENIC			
SNP_86859_A_119197	NW_004516292.1	scaffold953	119197	AA	GG	GG	INTERGENIC			
SNP_86860_A_119329	NW_004516292.1	scaffold953	119329	TT	GG	GG	INTERGENIC			
SNP_86861_A_123091	NW_004516292.1	scaffold953	123091	GG	TT	TT	INTERGENIC			
SNP_86862_A_123400	NW_004516292.1	scaffold953	123400	GG	AA	AA	INTERGENIC			
SNP_86863_A_124582	NW_004516292.1	scaffold953	124582	GG	TT	TT	INTERGENIC			
SNP_86865_A_138993	NW_004516292.1	scaffold953	138993	CC	TT	TT	INTERGENIC			
SNP_86866_A_141999	NW_004516292.1	scaffold953	141999	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86868_A_142495	NW_004516292.1	scaffold953	142495	AA	TT	TT	INTERGENIC			
SNP_86869_A_149141	NW_004516292.1	scaffold953	149141	GG	AA	AA	INTERGENIC			
SNP_86870_A_153618	NW_004516292.1	scaffold953	153618	GG	AA	AA	INTERGENIC			
SNP_86872_A_313	NW_004516293.1	scaffold954	313	TT	AA	AA	INTERGENIC			
SNP_86873_A_522	NW_004516293.1	scaffold954	522	AA	TT	TT	INTERGENIC			
SNP_86875_A_3873	NW_004516293.1	scaffold954	3873	TT	CC	CC	INTERGENIC			
SNP_86876_A_19890	NW_004516293.1	scaffold954	19890	TT	AA	AA	INTERGENIC			
SNP_86877_A_22489	NW_004516293.1	scaffold954	22489	GG	AA	AA	INTERGENIC			
SNP_86878_A_23606	NW_004516293.1	scaffold954	23606	AA	GG	GG	INTERGENIC			
SNP_86879_A_23695	NW_004516293.1	scaffold954	23695	AA	CC	CC	INTERGENIC			
SNP_86880_A_24258	NW_004516293.1	scaffold954	24258	TT	CC	CC	INTERGENIC			
SNP_86881_A_25537	NW_004516293.1	scaffold954	25537	GG	AA	AA	INTERGENIC			
SNP_86882_A_25550	NW_004516293.1	scaffold954	25550	AA	TT	TT	INTERGENIC			
SNP_86883_A_27855	NW_004516293.1	scaffold954	27855	GG	CC	CC	INTERGENIC			
SNP_86884_A_28410	NW_004516293.1	scaffold954	28410	GG	AA	AA	INTERGENIC			
SNP_86885_A_28421	NW_004516293.1	scaffold954	28421	GG	AA	AA	INTERGENIC			
SNP_86886_A_28429	NW_004516293.1	scaffold954	28429	AA	TT	TT	INTERGENIC			
SNP_86887_A_28476	NW_004516293.1	scaffold954	28476	TT	CC	CC	INTERGENIC			
SNP_86888_A_28487	NW_004516293.1	scaffold954	28487	AA	TT	TT	INTERGENIC			
SNP_86889_A_28496	NW_004516293.1	scaffold954	28496	GG	AA	AA	INTERGENIC			
SNP_86890_A_28626	NW_004516293.1	scaffold954	28626	AA	TT	TT	INTERGENIC			
SNP_86891_A_28673	NW_004516293.1	scaffold954	28673	TT	CC	CC	INTERGENIC			

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SNP_86892_A_28689	NW_004516293.1	scaffold954	28689	GG	AA	AA	INTERGENIC			
SNP_86893_A_28871	NW_004516293.1	scaffold954	28871	AA	GG	GG	INTERGENIC			
SNP_86894_A_28916	NW_004516293.1	scaffold954	28916	TT	CC	CC	INTERGENIC			
SNP_86895_A_28947	NW_004516293.1	scaffold954	28947	TT	CC	CC	INTERGENIC			
SNP_86896_A_29431	NW_004516293.1	scaffold954	29431	GG	AA	AA	INTERGENIC			
SNP_86897_A_29438	NW_004516293.1	scaffold954	29438	AA	CC	CC	INTERGENIC			
SNP_86898_A_30305	NW_004516293.1	scaffold954	30305	TT	CC	CC	INTERGENIC			
SNP_86899_A_30439	NW_004516293.1	scaffold954	30439	AA	GG	GG	INTERGENIC			
SNP_86900_A_31503	NW_004516293.1	scaffold954	31503	GG	AA	AA	INTERGENIC			
SNP_86901_A_31530	NW_004516293.1	scaffold954	31530	TT	AA	AA	INTERGENIC			
SNP_86902_A_36284	NW_004516293.1	scaffold954	36284	AA	GG	GG	INTERGENIC			
SNP_86903_A_36590	NW_004516293.1	scaffold954	36590	GG	TT	TT	INTERGENIC			
SNP_86904_A_37887	NW_004516293.1	scaffold954	37887	AA	GG	GG	INTERGENIC			
SNP_86905_A_38028	NW_004516293.1	scaffold954	38028	AA	TT	TT	INTERGENIC			
SNP_86906_A_39195	NW_004516293.1	scaffold954	39195	TT	GG	GG	INTERGENIC			
SNP_86907_A_39207	NW_004516293.1	scaffold954	39207	GG	AA	AA	INTERGENIC			
SNP_86908_A_39234	NW_004516293.1	scaffold954	39234	GG	AA	AA	INTERGENIC			
SNP_86909_A_39279	NW_004516293.1	scaffold954	39279	TT	GG	GG	INTERGENIC			
SNP_86910_A_39361	NW_004516293.1	scaffold954	39361	CC	GG	GG	INTERGENIC			
SNP_86911_A_39602	NW_004516293.1	scaffold954	39602	AA	GG	GG	INTERGENIC			
SNP_86912_A_39606	NW_004516293.1	scaffold954	39606	GG	AA	AA	INTERGENIC			
SNP_86913_A_39708	NW_004516293.1	scaffold954	39708	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86914_A_45071	NW_004516293.1	scaffold954	45071	GG	AA	AA	INTERGENIC			
SNP_86915_A_45189	NW_004516293.1	scaffold954	45189	TT	CC	CC	INTERGENIC			
SNP_86916_A_45372	NW_004516293.1	scaffold954	45372	AA	GG	GG	INTERGENIC			
SNP_86917_A_415	NW_004516295.1	scaffold956	415	GG	TT	TT	INTERGENIC			
SNP_86918_A_1043	NW_004516295.1	scaffold956	1043	GG	AA	AA	INTERGENIC			
SNP_86919_A_4250	NW_004516295.1	scaffold956	4250	TT	CC	CC	INTERGENIC			
SNP_86920_A_4483	NW_004516295.1	scaffold956	4483	TT	GG	GG	INTERGENIC			
SNP_86921_A_4503	NW_004516295.1	scaffold956	4503	GG	CC	CC	INTERGENIC			
SNP_86922_A_4561	NW_004516295.1	scaffold956	4561	CC	TT	TT	INTERGENIC			
SNP_86923_A_4652	NW_004516295.1	scaffold956	4652	TT	AA	AA	INTERGENIC			
SNP_86924_A_5883	NW_004516295.1	scaffold956	5883	AA	TT	TT	INTERGENIC			
SNP_86925_A_5966	NW_004516295.1	scaffold956	5966	TT	AA	AA	INTERGENIC			
SNP_86927_A_6020	NW_004516295.1	scaffold956	6020	CC	TT	TT	INTERGENIC			
SNP_86928_A_6027	NW_004516295.1	scaffold956	6027	GG	CC	CC	INTERGENIC			
SNP_86929_A_6239	NW_004516295.1	scaffold956	6239	AA	GG	GG	INTERGENIC			
SNP_86930_A_6276	NW_004516295.1	scaffold956	6276	TT	CC	CC	INTERGENIC			
SNP_86931_A_7384	NW_004516295.1	scaffold956	7384	AA	CC	CC	INTERGENIC			
SNP_86932_A_7517	NW_004516295.1	scaffold956	7517	TT	CC	CC	INTERGENIC			
SNP_86933_A_7518	NW_004516295.1	scaffold956	7518	TT	CC	CC	INTERGENIC			
SNP_86934_A_7697	NW_004516295.1	scaffold956	7697	AA	GG	GG	INTERGENIC			
SNP_86935_A_7855	NW_004516295.1	scaffold956	7855	CC	TT	TT	INTERGENIC			
SNP_86936_A_9830	NW_004516295.1	scaffold956	9830	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86937_A_9978	NW_004516295.1	scaffold956	9978	GG	AA	AA	INTERGENIC			
SNP_86938_A_12286	NW_004516295.1	scaffold956	12286	TT	AA	AA	INTERGENIC			
SNP_86939_A_12288	NW_004516295.1	scaffold956	12288	AA	TT	TT	INTERGENIC			
SNP_86940_A_12344	NW_004516295.1	scaffold956	12344	CC	GG	GG	INTERGENIC			
SNP_86941_A_12415	NW_004516295.1	scaffold956	12415	GG	AA	AA	INTERGENIC			
SNP_86942_A_12465	NW_004516295.1	scaffold956	12465	TT	GG	GG	INTERGENIC			
SNP_86943_A_12601	NW_004516295.1	scaffold956	12601	TT	CC	CC	INTERGENIC			
SNP_86944_A_12611	NW_004516295.1	scaffold956	12611	AA	CC	CC	INTERGENIC			
SNP_86945_A_12617	NW_004516295.1	scaffold956	12617	CC	TT	TT	INTERGENIC			
SNP_86946_A_12700	NW_004516295.1	scaffold956	12700	TT	CC	CC	INTERGENIC			
SNP_86947_A_14374	NW_004516295.1	scaffold956	14374	AA	TT	TT	INTERGENIC			
SNP_86948_A_14391	NW_004516295.1	scaffold956	14391	GG	AA	AA	INTERGENIC			
SNP_86949_A_14673	NW_004516295.1	scaffold956	14673	TT	AA	AA	INTERGENIC			
SNP_86950_A_14689	NW_004516295.1	scaffold956	14689	AA	TT	TT	INTERGENIC			
SNP_86951_A_18365	NW_004516295.1	scaffold956	18365	TT	GG	GG	INTERGENIC			
SNP_86952_A_18446	NW_004516295.1	scaffold956	18446	TT	CC	CC	INTERGENIC			
SNP_86953_A_18730	NW_004516295.1	scaffold956	18730	TT	CC	CC	INTERGENIC			
SNP_86954_A_18972	NW_004516295.1	scaffold956	18972	TT	CC	CC	INTERGENIC			
SNP_86955_A_19023	NW_004516295.1	scaffold956	19023	CC	TT	TT	INTERGENIC			
SNP_86956_A_19121	NW_004516295.1	scaffold956	19121	CC	AA	AA	INTERGENIC			
SNP_86957_A_19255	NW_004516295.1	scaffold956	19255	TT	AA	AA	INTERGENIC			
SNP_86958_A_19324	NW_004516295.1	scaffold956	19324	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86961_A_3723	NW_004516297.1	scaffold958	3723	GG	CC	CC	INTERGENIC			
SNP_86962_A_4249	NW_004516297.1	scaffold958	4249	CC	TT	TT	INTERGENIC			
SNP_86963_A_3885	NW_004516298.1	scaffold959	3885	AA	TT	TT	INTERGENIC			
SNP_86964_A_3963	NW_004516298.1	scaffold959	3963	CC	AA	AA	INTERGENIC			
SNP_86965_A_4288	NW_004516298.1	scaffold959	4288	TT	CC	CC	INTERGENIC			
SNP_86966_A_7948	NW_004516298.1	scaffold959	7948	AA	CC	CC	INTERGENIC			
SNP_86967_A_8016	NW_004516298.1	scaffold959	8016	GG	AA	AA	INTERGENIC			
SNP_86968_A_8022	NW_004516298.1	scaffold959	8022	CC	AA	AA	INTERGENIC			
SNP_86969_A_8040	NW_004516298.1	scaffold959	8040	TT	CC	CC	INTERGENIC			
SNP_86970_A_10571	NW_004516298.1	scaffold959	10571	AA	GG	GG	INTERGENIC			
SNP_86971_A_10580	NW_004516298.1	scaffold959	10580	GG	AA	AA	INTERGENIC			
SNP_86972_A_10613	NW_004516298.1	scaffold959	10613	CC	TT	TT	INTERGENIC			
SNP_86973_A_10644	NW_004516298.1	scaffold959	10644	CC	TT	TT	INTERGENIC			
SNP_86974_A_10664	NW_004516298.1	scaffold959	10664	AA	CC	CC	INTERGENIC			
SNP_86975_A_20448	NW_004516298.1	scaffold959	20448	GG	AA	AA	INTERGENIC			
SNP_86976_A_20802	NW_004516298.1	scaffold959	20802	TT	AA	AA	INTERGENIC			
SNP_86977_A_20836	NW_004516298.1	scaffold959	20836	AA	CC	CC	INTERGENIC			
SNP_86978_A_20882	NW_004516298.1	scaffold959	20882	TT	GG	GG	INTERGENIC			
SNP_86979_A_20958	NW_004516298.1	scaffold959	20958	GG	CC	CC	INTERGENIC			
SNP_86980_A_21285	NW_004516298.1	scaffold959	21285	CC	AA	AA	INTERGENIC			
SNP_86981_A_47608	NW_004516298.1	scaffold959	47608	CC	TT	TT	INTERGENIC			
SNP_86982_A_47639	NW_004516298.1	scaffold959	47639	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_86983_A_57572	NW_004516298.1	scaffold959	57572	AA	TT	TT	INTERGENIC			
SNP_86984_A_57591	NW_004516298.1	scaffold959	57591	CC	TT	TT	INTERGENIC			
SNP_86986_A_57788	NW_004516298.1	scaffold959	57788	TT	AA	AA	INTERGENIC			
SNP_86987_A_57810	NW_004516298.1	scaffold959	57810	GG	TT	TT	INTERGENIC			
SNP_86988_A_57928	NW_004516298.1	scaffold959	57928	AA	GG	GG	INTERGENIC			
SNP_86989_A_58306	NW_004516298.1	scaffold959	58306	AA	TT	TT	INTERGENIC			
SNP_86990_A_4054	NW_004516299.1	scaffold960	4054	CC	TT	TT	INTERGENIC			
SNP_86991_A_8103	NW_004516299.1	scaffold960	8103	AA	GG	GG	INTERGENIC			
SNP_86992_A_20750	NW_004516299.1	scaffold960	20750	TT	GG	GG	INTERGENIC			
SNP_86994_A_20802	NW_004516299.1	scaffold960	20802	TT	CC	CC	INTERGENIC			
SNP_86995_A_68109	NW_004516299.1	scaffold960	68109	CC	TT	TT	INTERGENIC			
SNP_86996_A_68135	NW_004516299.1	scaffold960	68135	TT	GG	GG	INTERGENIC			
SNP_86997_A_68216	NW_004516299.1	scaffold960	68216	TT	GG	GG	INTERGENIC			
SNP_86998_A_68318	NW_004516299.1	scaffold960	68318	AA	GG	GG	INTERGENIC			
SNP_86999_A_117371	NW_004516299.1	scaffold960	117371	TT	AA	AA	INTERGENIC			
SNP_87000_A_126413	NW_004516299.1	scaffold960	126413	AA	GG	GG	INTERGENIC			
SNP_87001_A_126416	NW_004516299.1	scaffold960	126416	GG	AA	AA	INTERGENIC			
SNP_87002_A_126524	NW_004516299.1	scaffold960	126524	AA	TT	TT	INTERGENIC			
SNP_87003_A_159074	NW_004516299.1	scaffold960	159074	TT	CC	CC	INTERGENIC			
SNP_87004_A_162259	NW_004516299.1	scaffold960	162259	AA	GG	GG	INTERGENIC			
SNP_87005_A_162272	NW_004516299.1	scaffold960	162272	TT	GG	GG	INTERGENIC			
SNP_87006_A_162285	NW_004516299.1	scaffold960	162285	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87007_A_162321	NW_004516299.1	scaffold960	162321	TT	CC	CC	INTERGENIC			
SNP_87008_A_162411	NW_004516299.1	scaffold960	162411	TT	CC	CC	INTERGENIC			
SNP_87009_A_162433	NW_004516299.1	scaffold960	162433	AA	GG	GG	INTERGENIC			
SNP_87010_A_162438	NW_004516299.1	scaffold960	162438	TT	CC	CC	INTERGENIC			
SNP_87011_A_162439	NW_004516299.1	scaffold960	162439	AA	GG	GG	INTERGENIC			
SNP_87012_A_163252	NW_004516299.1	scaffold960	163252	TT	GG	GG	INTERGENIC			
SNP_87013_A_3810	NW_004516300.1	scaffold962	3810	CC	TT	TT	INTERGENIC			
SNP_87014_A_14003	NW_004516300.1	scaffold962	14003	CC	AA	AA	INTERGENIC			
SNP_87015_A_16588	NW_004516300.1	scaffold962	16588	GG	AA	AA	INTERGENIC			
SNP_87016_A_33390	NW_004516300.1	scaffold962	33390	GG	AA	AA	INTERGENIC			
SNP_87017_A_33423	NW_004516300.1	scaffold962	33423	CC	GG	GG	INTERGENIC			
SNP_87018_A_33425	NW_004516300.1	scaffold962	33425	CC	GG	GG	INTERGENIC			
SNP_87019_A_39152	NW_004516300.1	scaffold962	39152	TT	GG	GG	INTERGENIC			
SNP_87020_A_61208	NW_004516300.1	scaffold962	61208	AA	CC	CC	INTERGENIC			
SNP_87021_A_110749	NW_004516300.1	scaffold962	110749	AA	GG	GG	INTERGENIC			
SNP_87022_A_110999	NW_004516300.1	scaffold962	110999	TT	CC	CC	INTERGENIC			
SNP_87023_A_111028	NW_004516300.1	scaffold962	111028	TT	CC	CC	INTERGENIC			
SNP_87024_A_125629	NW_004516300.1	scaffold962	125629	TT	AA	AA	INTERGENIC			
SNP_87025_A_148976	NW_004516300.1	scaffold962	148976	CC	TT	TT	INTERGENIC			
SNP_87026_A_149242	NW_004516300.1	scaffold962	149242	AA	GG	GG	INTERGENIC			
SNP_87027_A_149257	NW_004516300.1	scaffold962	149257	TT	CC	CC	INTERGENIC			
SNP_87029_A_160775	NW_004516300.1	scaffold962	160775	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87030_A_161004	NW_004516300.1	scaffold962	161004	TT	CC	CC	INTERGENIC			
SNP_87031_A_161065	NW_004516300.1	scaffold962	161065	AA	TT	TT	INTERGENIC			
SNP_87032_A_161113	NW_004516300.1	scaffold962	161113	TT	CC	CC	INTERGENIC			
SNP_87033_A_161116	NW_004516300.1	scaffold962	161116	TT	CC	CC	INTERGENIC			
SNP_87034_A_164204	NW_004516300.1	scaffold962	164204	TT	GG	GG	INTERGENIC			
SNP_87035_A_172574	NW_004516300.1	scaffold962	172574	AA	TT	TT	INTERGENIC			
SNP_87036_A_196033	NW_004516300.1	scaffold962	196033	CC	TT	TT	INTERGENIC			
SNP_87037_A_203082	NW_004516300.1	scaffold962	203082	AA	TT	TT	INTERGENIC			
SNP_87038_A_209298	NW_004516300.1	scaffold962	209298	CC	TT	TT	INTERGENIC			
SNP_87040_A_218517	NW_004516300.1	scaffold962	218517	GG	CC	CC	INTERGENIC			
SNP_87041_A_276	NW_004516301.1	scaffold963	276	GG	AA	AA	INTERGENIC			
SNP_87042_A_3501	NW_004516301.1	scaffold963	3501	AA	GG	GG	INTERGENIC			
SNP_87043_A_3741	NW_004516301.1	scaffold963	3741	TT	GG	GG	INTERGENIC			
SNP_87044_A_3759	NW_004516301.1	scaffold963	3759	TT	GG	GG	INTERGENIC			
SNP_87045_A_3878	NW_004516301.1	scaffold963	3878	GG	AA	AA	INTERGENIC			
SNP_87046_A_4299	NW_004516301.1	scaffold963	4299	GG	AA	AA	INTERGENIC			
SNP_87047_A_4320	NW_004516301.1	scaffold963	4320	CC	AA	AA	INTERGENIC			
SNP_87048_A_4449	NW_004516301.1	scaffold963	4449	CC	TT	TT	INTERGENIC			
SNP_87049_A_5273	NW_004516301.1	scaffold963	5273	AA	CC	CC	INTERGENIC			
SNP_87050_A_5278	NW_004516301.1	scaffold963	5278	AA	CC	CC	INTERGENIC			
SNP_87051_A_5285	NW_004516301.1	scaffold963	5285	AA	TT	TT	INTERGENIC			
SNP_87052_A_5324	NW_004516301.1	scaffold963	5324	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87053_A_5344	NW_004516301.1	scaffold963	5344	TT	CC	CC	INTERGENIC			
SNP_87054_A_5350	NW_004516301.1	scaffold963	5350	AA	GG	GG	INTERGENIC			
SNP_87055_A_5389	NW_004516301.1	scaffold963	5389	AA	GG	GG	INTERGENIC			
SNP_87056_A_5401	NW_004516301.1	scaffold963	5401	GG	CC	CC	INTERGENIC			
SNP_87057_A_5414	NW_004516301.1	scaffold963	5414	AA	GG	GG	INTERGENIC			
SNP_87058_A_5444	NW_004516301.1	scaffold963	5444	TT	GG	GG	INTERGENIC			
SNP_87059_A_5446	NW_004516301.1	scaffold963	5446	TT	AA	AA	INTERGENIC			
SNP_87060_A_5475	NW_004516301.1	scaffold963	5475	AA	GG	GG	INTERGENIC			
SNP_87061_A_5478	NW_004516301.1	scaffold963	5478	AA	GG	GG	INTERGENIC			
SNP_87062_A_5830	NW_004516301.1	scaffold963	5830	TT	CC	CC	INTERGENIC			
SNP_87063_A_5904	NW_004516301.1	scaffold963	5904	AA	CC	CC	INTERGENIC			
SNP_87064_A_5914	NW_004516301.1	scaffold963	5914	GG	AA	AA	INTERGENIC			
SNP_87065_A_5997	NW_004516301.1	scaffold963	5997	CC	TT	TT	INTERGENIC			
SNP_87066_A_6029	NW_004516301.1	scaffold963	6029	CC	GG	GG	INTERGENIC			
SNP_87067_A_6084	NW_004516301.1	scaffold963	6084	TT	CC	CC	INTERGENIC			
SNP_87068_A_6130	NW_004516301.1	scaffold963	6130	GG	AA	AA	INTERGENIC			
SNP_87069_A_6282	NW_004516301.1	scaffold963	6282	AA	TT	TT	INTERGENIC			
SNP_87070_A_6294	NW_004516301.1	scaffold963	6294	TT	CC	CC	INTERGENIC			
SNP_87071_A_6320	NW_004516301.1	scaffold963	6320	AA	GG	GG	INTERGENIC			
SNP_87072_A_6374	NW_004516301.1	scaffold963	6374	AA	GG	GG	INTERGENIC			
SNP_87073_A_6406	NW_004516301.1	scaffold963	6406	TT	AA	AA	INTERGENIC			
SNP_87074_A_6416	NW_004516301.1	scaffold963	6416	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87075_A_6421	NW_004516301.1	scaffold963	6421	TT	AA	AA	INTERGENIC		
SNP_87076_A_6440	NW_004516301.1	scaffold963	6440	CC	TT	TT	INTERGENIC		
SNP_87077_A_6458	NW_004516301.1	scaffold963	6458	CC	TT	TT	INTERGENIC		
SNP_87078_A_6496	NW_004516301.1	scaffold963	6496	GG	CC	CC	INTERGENIC		
SNP_87079_A_6561	NW_004516301.1	scaffold963	6561	TT	AA	AA	INTERGENIC		
SNP_87080_A_6724	NW_004516301.1	scaffold963	6724	CC	TT	TT	INTERGENIC		
SNP_87081_A_7216	NW_004516301.1	scaffold963	7216	AA	GG	GG	INTERGENIC		
SNP_87082_A_7265	NW_004516301.1	scaffold963	7265	TT	CC	CC	INTERGENIC		
SNP_87083_A_17266	NW_004516301.1	scaffold963	17266	GG	TT	TT	INTERGENIC		
SNP_87084_A_17292	NW_004516301.1	scaffold963	17292	AA	TT	TT	INTERGENIC		
SNP_87086_A_49084	NW_004516301.1	scaffold963	49084	TT	GG	GG	URR	101491653	uncharacterized LOC101491653
SNP_87087_A_50041	NW_004516301.1	scaffold963	50041	AA	GG	GG	INTERGENIC		
SNP_87088_A_51941	NW_004516301.1	scaffold963	51941	GG	AA	AA	INTERGENIC		
SNP_87089_A_51949	NW_004516301.1	scaffold963	51949	AA	CC	CC	INTERGENIC		
SNP_87090_A_62381	NW_004516301.1	scaffold963	62381	GG	AA	AA	INTERGENIC		
SNP_87091_A_89645	NW_004516301.1	scaffold963	89645	CC	GG	GG	INTERGENIC		
SNP_87092_A_89755	NW_004516301.1	scaffold963	89755	TT	CC	CC	INTERGENIC		
SNP_87093_A_90012	NW_004516301.1	scaffold963	90012	TT	CC	CC	INTERGENIC		
SNP_87094_A_90381	NW_004516301.1	scaffold963	90381	AA	CC	CC	INTERGENIC		
SNP_87095_A_91926	NW_004516301.1	scaffold963	91926	AA	TT	TT	INTERGENIC		
SNP_87096_A_92348	NW_004516301.1	scaffold963	92348	TT	CC	CC	INTERGENIC		
SNP_87097_A_92362	NW_004516301.1	scaffold963	92362	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87098_A_92441	NW_004516301.1	scaffold963	92441	AA	CC	CC	INTERGENIC			
SNP_87099_A_93611	NW_004516301.1	scaffold963	93611	CC	AA	AA	INTERGENIC			
SNP_87100_A_93618	NW_004516301.1	scaffold963	93618	TT	CC	CC	INTERGENIC			
SNP_87101_A_93619	NW_004516301.1	scaffold963	93619	AA	GG	GG	INTERGENIC			
SNP_87103_A_93716	NW_004516301.1	scaffold963	93716	TT	CC	CC	INTERGENIC			
SNP_87104_A_93728	NW_004516301.1	scaffold963	93728	TT	GG	GG	INTERGENIC			
SNP_87105_A_93730	NW_004516301.1	scaffold963	93730	CC	AA	AA	INTERGENIC			
SNP_87106_A_93744	NW_004516301.1	scaffold963	93744	GG	AA	AA	INTERGENIC			
SNP_87107_A_93749	NW_004516301.1	scaffold963	93749	GG	AA	AA	INTERGENIC			
SNP_87108_A_515	NW_004516302.1	scaffold964	515	GG	TT	TT	INTERGENIC			
SNP_87109_A_680	NW_004516302.1	scaffold964	680	AA	TT	TT	INTERGENIC			
SNP_87110_A_891	NW_004516302.1	scaffold964	891	CC	TT	TT	INTERGENIC			
SNP_87111_A_5153	NW_004516302.1	scaffold964	5153	AA	GG	GG	INTERGENIC			
SNP_87112_A_5452	NW_004516302.1	scaffold964	5452	TT	GG	GG	INTERGENIC			
SNP_87113_A_5812	NW_004516302.1	scaffold964	5812	TT	CC	CC	INTERGENIC			
SNP_87114_A_5920	NW_004516302.1	scaffold964	5920	CC	TT	TT	INTERGENIC			
SNP_87115_A_6784	NW_004516302.1	scaffold964	6784	AA	CC	CC	INTERGENIC			
SNP_87116_A_9624	NW_004516302.1	scaffold964	9624	GG	CC	CC	INTERGENIC			
SNP_87117_A_10101	NW_004516302.1	scaffold964	10101	CC	TT	TT	INTERGENIC			
SNP_87118_A_12435	NW_004516302.1	scaffold964	12435	TT	AA	AA	INTERGENIC			
SNP_87119_A_12475	NW_004516302.1	scaffold964	12475	CC	TT	TT	INTERGENIC			
SNP_87120_A_12570	NW_004516302.1	scaffold964	12570	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87121_A_12586	NW_004516302.1	scaffold964	12586	TT	AA	AA	INTERGENIC			
SNP_87122_A_12615	NW_004516302.1	scaffold964	12615	CC	AA	AA	INTERGENIC			
SNP_87123_A_12643	NW_004516302.1	scaffold964	12643	AA	GG	GG	INTERGENIC			
SNP_87124_A_12659	NW_004516302.1	scaffold964	12659	TT	CC	CC	INTERGENIC			
SNP_87125_A_12688	NW_004516302.1	scaffold964	12688	TT	AA	AA	INTERGENIC			
SNP_87126_A_12764	NW_004516302.1	scaffold964	12764	AA	CC	CC	INTERGENIC			
SNP_87127_A_12787	NW_004516302.1	scaffold964	12787	AA	GG	GG	INTERGENIC			
SNP_87128_A_12810	NW_004516302.1	scaffold964	12810	TT	CC	CC	INTERGENIC			
SNP_87129_A_13573	NW_004516302.1	scaffold964	13573	AA	CC	CC	INTERGENIC			
SNP_87130_A_18161	NW_004516302.1	scaffold964	18161	AA	GG	GG	INTERGENIC			
SNP_87131_A_32122	NW_004516302.1	scaffold964	32122	AA	CC	CC	INTERGENIC			
SNP_87132_A_45675	NW_004516302.1	scaffold964	45675	TT	AA	AA	INTERGENIC			
SNP_87133_A_45808	NW_004516302.1	scaffold964	45808	CC	AA	AA	INTERGENIC			
SNP_87134_A_45869	NW_004516302.1	scaffold964	45869	CC	TT	TT	INTERGENIC			
SNP_87135_A_45892	NW_004516302.1	scaffold964	45892	TT	GG	GG	INTERGENIC			
SNP_87136_A_45933	NW_004516302.1	scaffold964	45933	TT	AA	AA	INTERGENIC			
SNP_87137_A_54140	NW_004516302.1	scaffold964	54140	CC	TT	TT	INTERGENIC			
SNP_87138_A_54279	NW_004516302.1	scaffold964	54279	CC	GG	GG	INTERGENIC			
SNP_87139_A_60809	NW_004516302.1	scaffold964	60809	TT	CC	CC	INTERGENIC			
SNP_87140_A_61755	NW_004516302.1	scaffold964	61755	TT	CC	CC	INTERGENIC			
SNP_87141_A_62698	NW_004516302.1	scaffold964	62698	GG	TT	TT	INTERGENIC			
SNP_87142_A_62833	NW_004516302.1	scaffold964	62833	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87143_A_62834	NW_004516302.1	scaffold964	62834	GG	AA	AA	INTERGENIC			
SNP_87144_A_74446	NW_004516302.1	scaffold964	74446	TT	CC	CC	INTERGENIC			
SNP_87145_A_74453	NW_004516302.1	scaffold964	74453	AA	CC	CC	INTERGENIC			
SNP_87147_A_83354	NW_004516302.1	scaffold964	83354	AA	GG	GG	INTERGENIC			
SNP_87148_A_84910	NW_004516302.1	scaffold964	84910	TT	CC	CC	INTERGENIC			
SNP_87149_A_84913	NW_004516302.1	scaffold964	84913	TT	CC	CC	INTERGENIC			
SNP_87150_A_687	NW_004516305.1	scaffold968	687	AA	GG	GG	INTERGENIC			
SNP_87151_A_979	NW_004516306.1	scaffold969	979	AA	TT	TT	INTERGENIC			
SNP_87152_A_1366	NW_004516306.1	scaffold969	1366	CC	AA	AA	INTERGENIC			
SNP_87153_A_1519	NW_004516306.1	scaffold969	1519	AA	GG	GG	INTERGENIC			
SNP_87154_A_342	NW_004516307.1	scaffold971	342	CC	TT	TT	INTERGENIC			
SNP_87155_A_495	NW_004516307.1	scaffold971	495	AA	TT	TT	INTERGENIC			
SNP_87156_A_514	NW_004516307.1	scaffold971	514	AA	GG	GG	INTERGENIC			
SNP_87157_A_521	NW_004516307.1	scaffold971	521	GG	AA	AA	INTERGENIC			
SNP_87158_A_527	NW_004516307.1	scaffold971	527	TT	AA	AA	INTERGENIC			
SNP_87159_A_573	NW_004516307.1	scaffold971	573	GG	AA	AA	INTERGENIC			
SNP_87160_A_678	NW_004516307.1	scaffold971	678	TT	CC	CC	INTERGENIC			
SNP_87161_A_1124	NW_004516307.1	scaffold971	1124	TT	CC	CC	INTERGENIC			
SNP_87162_A_3217	NW_004516307.1	scaffold971	3217	TT	AA	AA	INTERGENIC			
SNP_87163_A_3513	NW_004516307.1	scaffold971	3513	GG	AA	AA	INTERGENIC			
SNP_87164_A_3517	NW_004516307.1	scaffold971	3517	TT	AA	AA	INTERGENIC			
SNP_87165_A_3528	NW_004516307.1	scaffold971	3528	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87166_A_3539	NW_004516307.1	scaffold971	3539	AA	TT	TT	INTERGENIC			
SNP_87167_A_3634	NW_004516307.1	scaffold971	3634	CC	AA	AA	INTERGENIC			
SNP_87168_A_3700	NW_004516307.1	scaffold971	3700	AA	CC	CC	INTERGENIC			
SNP_87169_A_3780	NW_004516307.1	scaffold971	3780	GG	AA	AA	INTERGENIC			
SNP_87170_A_3991	NW_004516307.1	scaffold971	3991	GG	AA	AA	INTERGENIC			
SNP_87171_A_4019	NW_004516307.1	scaffold971	4019	AA	GG	GG	INTERGENIC			
SNP_87172_A_5177	NW_004516307.1	scaffold971	5177	GG	AA	AA	INTERGENIC			
SNP_87173_A_5192	NW_004516307.1	scaffold971	5192	GG	CC	CC	INTERGENIC			
SNP_87174_A_7699	NW_004516307.1	scaffold971	7699	GG	TT	TT	INTERGENIC			
SNP_87175_A_9518	NW_004516307.1	scaffold971	9518	TT	CC	CC	INTERGENIC			
SNP_87176_A_12174	NW_004516307.1	scaffold971	12174	GG	TT	TT	INTERGENIC			
SNP_87177_A_13522	NW_004516307.1	scaffold971	13522	AA	GG	GG	INTERGENIC			
SNP_87178_A_13945	NW_004516307.1	scaffold971	13945	AA	TT	TT	INTERGENIC			
SNP_87179_A_14591	NW_004516307.1	scaffold971	14591	GG	AA	AA	INTERGENIC			
SNP_87180_A_12878	NW_004516308.1	scaffold972	12878	AA	GG	GG	INTERGENIC			
SNP_87181_A_12939	NW_004516308.1	scaffold972	12939	AA	CC	CC	INTERGENIC			
SNP_87182_A_3317	NW_004516309.1	scaffold973	3317	CC	AA	AA	INTERGENIC			
SNP_87183_A_3367	NW_004516309.1	scaffold973	3367	AA	GG	GG	INTERGENIC			
SNP_87184_A_3408	NW_004516309.1	scaffold973	3408	TT	AA	AA	INTERGENIC			
SNP_87185_A_3608	NW_004516309.1	scaffold973	3608	AA	GG	GG	INTERGENIC			
SNP_87186_A_3696	NW_004516309.1	scaffold973	3696	GG	AA	AA	INTERGENIC			
SNP_87187_A_3894	NW_004516309.1	scaffold973	3894	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87188_A_4195	NW_004516309.1	scaffold973	4195	AA	GG	GG	INTERGENIC			
SNP_87189_A_4448	NW_004516309.1	scaffold973	4448	TT	CC	CC	INTERGENIC			
SNP_87190_A_4559	NW_004516309.1	scaffold973	4559	TT	GG	GG	INTERGENIC			
SNP_87191_A_3463	NW_004516310.1	scaffold974	3463	GG	TT	TT	INTERGENIC			
SNP_87192_A_3470	NW_004516310.1	scaffold974	3470	GG	CC	CC	INTERGENIC			
SNP_87193_A_3491	NW_004516310.1	scaffold974	3491	CC	TT	TT	INTERGENIC			
SNP_87194_A_3843	NW_004516310.1	scaffold974	3843	TT	AA	AA	INTERGENIC			
SNP_87195_A_3844	NW_004516310.1	scaffold974	3844	GG	TT	TT	INTERGENIC			
SNP_87196_A_5153	NW_004516310.1	scaffold974	5153	TT	AA	AA	INTERGENIC			
SNP_87197_A_24695	NW_004516310.1	scaffold974	24695	TT	CC	CC	INTERGENIC			
SNP_87198_A_33900	NW_004516310.1	scaffold974	33900	AA	GG	GG	INTERGENIC			
SNP_87199_A_33932	NW_004516310.1	scaffold974	33932	TT	CC	CC	INTERGENIC			
SNP_87200_A_33948	NW_004516310.1	scaffold974	33948	AA	GG	GG	INTERGENIC			
SNP_87201_A_34240	NW_004516310.1	scaffold974	34240	AA	GG	GG	INTERGENIC			
SNP_87202_A_34280	NW_004516310.1	scaffold974	34280	TT	CC	CC	INTERGENIC			
SNP_87203_A_394	NW_004516311.1	scaffold977	394	CC	AA	AA	INTERGENIC			
SNP_87204_A_4515	NW_004516311.1	scaffold977	4515	AA	GG	GG	INTERGENIC			
SNP_87205_A_4572	NW_004516311.1	scaffold977	4572	TT	CC	CC	INTERGENIC			
SNP_87206_A_4734	NW_004516311.1	scaffold977	4734	CC	TT	TT	INTERGENIC			
SNP_87208_A_4765	NW_004516311.1	scaffold977	4765	TT	GG	GG	INTERGENIC			
SNP_87209_A_4769	NW_004516311.1	scaffold977	4769	TT	GG	GG	INTERGENIC			
SNP_87210_A_4840	NW_004516311.1	scaffold977	4840	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87211_A_5081	NW_004516311.1	scaffold977	5081	TT	CC	CC	INTERGENIC			
SNP_87212_A_5128	NW_004516311.1	scaffold977	5128	AA	TT	TT	INTERGENIC			
SNP_87213_A_5168	NW_004516311.1	scaffold977	5168	TT	AA	AA	INTERGENIC			
SNP_87214_A_5231	NW_004516311.1	scaffold977	5231	TT	AA	AA	INTERGENIC			
SNP_87215_A_6201	NW_004516311.1	scaffold977	6201	GG	AA	AA	INTERGENIC			
SNP_87216_A_6210	NW_004516311.1	scaffold977	6210	GG	TT	TT	INTERGENIC			
SNP_87217_A_6230	NW_004516311.1	scaffold977	6230	AA	CC	CC	INTERGENIC			
SNP_87218_A_6231	NW_004516311.1	scaffold977	6231	CC	GG	GG	INTERGENIC			
SNP_87219_A_6485	NW_004516311.1	scaffold977	6485	GG	AA	AA	INTERGENIC			
SNP_87220_A_6534	NW_004516311.1	scaffold977	6534	CC	TT	TT	INTERGENIC			
SNP_87221_A_6569	NW_004516311.1	scaffold977	6569	CC	TT	TT	INTERGENIC			
SNP_87222_A_6666	NW_004516311.1	scaffold977	6666	TT	AA	AA	INTERGENIC			
SNP_87223_A_6773	NW_004516311.1	scaffold977	6773	CC	AA	AA	INTERGENIC			
SNP_87224_A_6787	NW_004516311.1	scaffold977	6787	TT	GG	GG	INTERGENIC			
SNP_87225_A_6835	NW_004516311.1	scaffold977	6835	AA	GG	GG	INTERGENIC			
SNP_87226_A_6849	NW_004516311.1	scaffold977	6849	TT	AA	AA	INTERGENIC			
SNP_87228_A_2610	NW_004516313.1	scaffold981	2610	TT	AA	AA	INTERGENIC			
SNP_87230_A_10022	NW_004516313.1	scaffold981	10022	TT	CC	CC	INTERGENIC			
SNP_87231_A_10135	NW_004516313.1	scaffold981	10135	AA	GG	GG	INTERGENIC			
SNP_87234_A_11060	NW_004516313.1	scaffold981	11060	CC	AA	AA	INTERGENIC			
SNP_87235_A_11074	NW_004516313.1	scaffold981	11074	TT	CC	CC	INTERGENIC			
SNP_87236_A_11098	NW_004516313.1	scaffold981	11098	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87237_A_13620	NW_004516313.1	scaffold981	13620	AA	GG	GG	INTERGENIC		
SNP_87238_A_18681	NW_004516313.1	scaffold981	18681	TT	CC	CC	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87239_A_19643	NW_004516313.1	scaffold981	19643	TT	CC	CC	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87240_A_43253	NW_004516313.1	scaffold981	43253	GG	CC	CC	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87241_A_49714	NW_004516313.1	scaffold981	49714	TT	CC	CC	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87242_A_49726	NW_004516313.1	scaffold981	49726	TT	AA	AA	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87243_A_49735	NW_004516313.1	scaffold981	49735	CC	GG	GG	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87244_A_49777	NW_004516313.1	scaffold981	49777	TT	CC	CC	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87245_A_49824	NW_004516313.1	scaffold981	49824	CC	AA	AA	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87246_A_49926	NW_004516313.1	scaffold981	49926	TT	AA	AA	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87247_A_53849	NW_004516313.1	scaffold981	53849	GG	AA	AA	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87248_A_53948	NW_004516313.1	scaffold981	53948	GG	TT	TT	INTRON	101492522	60S acidic ribosomal protein P1-like
SNP_87249_A_68908	NW_004516313.1	scaffold981	68908	TT	CC	CC	INTERGENIC		
SNP_87250_A_69007	NW_004516313.1	scaffold981	69007	AA	GG	GG	INTERGENIC		
SNP_87251_A_69010	NW_004516313.1	scaffold981	69010	CC	TT	TT	INTERGENIC		
SNP_87252_A_69018	NW_004516313.1	scaffold981	69018	GG	AA	AA	INTERGENIC		
SNP_87253_A_69022	NW_004516313.1	scaffold981	69022	AA	GG	GG	INTERGENIC		
SNP_87254_A_69024	NW_004516313.1	scaffold981	69024	AA	TT	TT	INTERGENIC		
SNP_87255_A_71340	NW_004516313.1	scaffold981	71340	TT	GG	GG	INTERGENIC		
SNP_87256_A_77882	NW_004516313.1	scaffold981	77882	TT	CC	CC	INTERGENIC		
SNP_87257_A_78041	NW_004516313.1	scaffold981	78041	AA	CC	CC	INTERGENIC		
SNP_87258_A_78049	NW_004516313.1	scaffold981	78049	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87259_A_78111	NW_004516313.1	scaffold981	78111	AA	TT	TT	INTERGENIC		
SNP_87260_A_78112	NW_004516313.1	scaffold981	78112	TT	CC	CC	INTERGENIC		
SNP_87261_A_78332	NW_004516313.1	scaffold981	78332	AA	CC	CC	INTERGENIC		
SNP_87262_A_78396	NW_004516313.1	scaffold981	78396	TT	CC	CC	INTERGENIC		
SNP_87263_A_78643	NW_004516313.1	scaffold981	78643	AA	GG	GG	INTERGENIC		
SNP_87264_A_78647	NW_004516313.1	scaffold981	78647	AA	CC	CC	INTERGENIC		
SNP_87265_A_78704	NW_004516313.1	scaffold981	78704	TT	CC	CC	INTERGENIC		
SNP_87266_A_79028	NW_004516313.1	scaffold981	79028	AA	GG	GG	INTERGENIC		
SNP_87267_A_79320	NW_004516313.1	scaffold981	79320	AA	GG	GG	INTERGENIC		
SNP_87268_A_79335	NW_004516313.1	scaffold981	79335	CC	TT	TT	INTERGENIC		
SNP_87269_A_79359	NW_004516313.1	scaffold981	79359	AA	GG	GG	INTERGENIC		
SNP_87270_A_79361	NW_004516313.1	scaffold981	79361	AA	GG	GG	INTERGENIC		
SNP_87272_A_84237	NW_004516313.1	scaffold981	84237	TT	AA	AA	URR	101492297	uncharacterized LOC101492297
SNP_87273_A_84238	NW_004516313.1	scaffold981	84238	AA	TT	TT	URR	101492297	uncharacterized LOC101492297
SNP_87274_A_84314	NW_004516313.1	scaffold981	84314	AA	CC	CC	URR	101492297	uncharacterized LOC101492297
SNP_87276_A_84541	NW_004516313.1	scaffold981	84541	GG	AA	AA	URR	101492297	uncharacterized LOC101492297
SNP_87277_A_496	NW_004516314.1	scaffold982	496	CC	GG	GG	INTERGENIC		
SNP_87279_A_1210	NW_004516314.1	scaffold982	1210	CC	TT	TT	INTERGENIC		
SNP_87280_A_1212	NW_004516314.1	scaffold982	1212	AA	GG	GG	INTERGENIC		
SNP_87281_A_1250	NW_004516314.1	scaffold982	1250	CC	AA	AA	INTERGENIC		
SNP_87283_A_1319	NW_004516314.1	scaffold982	1319	CC	AA	AA	INTERGENIC		
SNP_87285_A_2819	NW_004516314.1	scaffold982	2819	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87286_A_2902	NW_004516314.1	scaffold982	2902	TT	CC	CC	INTERGENIC			
SNP_87287_A_3346	NW_004516314.1	scaffold982	3346	AA	GG	GG	INTERGENIC			
SNP_87288_A_4843	NW_004516314.1	scaffold982	4843	TT	AA	AA	INTERGENIC			
SNP_87289_A_4938	NW_004516314.1	scaffold982	4938	GG	AA	AA	INTERGENIC			
SNP_87290_A_5464	NW_004516314.1	scaffold982	5464	TT	AA	AA	INTERGENIC			
SNP_87291_A_5533	NW_004516314.1	scaffold982	5533	TT	CC	CC	INTERGENIC			
SNP_87292_A_6010	NW_004516314.1	scaffold982	6010	GG	TT	TT	INTERGENIC			
SNP_87293_A_6312	NW_004516314.1	scaffold982	6312	TT	AA	AA	INTERGENIC			
SNP_87294_A_7346	NW_004516314.1	scaffold982	7346	AA	TT	TT	INTERGENIC			
SNP_87295_A_7783	NW_004516314.1	scaffold982	7783	TT	AA	AA	INTERGENIC			
SNP_87296_A_7813	NW_004516314.1	scaffold982	7813	GG	AA	AA	INTERGENIC			
SNP_87297_A_7816	NW_004516314.1	scaffold982	7816	CC	TT	TT	INTERGENIC			
SNP_87298_A_7949	NW_004516314.1	scaffold982	7949	CC	TT	TT	INTERGENIC			
SNP_87299_A_9319	NW_004516314.1	scaffold982	9319	TT	GG	GG	INTERGENIC			
SNP_87300_A_9742	NW_004516314.1	scaffold982	9742	TT	CC	CC	INTERGENIC			
SNP_87302_A_14553	NW_004516314.1	scaffold982	14553	GG	CC	CC	NON_SYNONYMOUS_CODING	101492852	cucumis-in-like	
SNP_87303_A_14774	NW_004516314.1	scaffold982	14774	GG	TT	TT	URR	101492852	cucumis-in-like	
SNP_87304_A_14806	NW_004516314.1	scaffold982	14806	TT	AA	AA	URR	101492852	cucumis-in-like	
SNP_87305_A_14809	NW_004516314.1	scaffold982	14809	CC	AA	AA	URR	101492852	cucumis-in-like	
SNP_87307_A_15022	NW_004516314.1	scaffold982	15022	TT	CC	CC	URR	101492852	cucumis-in-like	
SNP_87308_A_15039	NW_004516314.1	scaffold982	15039	AA	GG	GG	URR	101492852	cucumis-in-like	
SNP_87309_A_15057	NW_004516314.1	scaffold982	15057	GG	AA	AA	URR	101492852	cucumis-in-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87310_A_15194	NW_004516314.1	scaffold982	15194	AA	GG	GG	URR	101492852	cucumis-in-like
SNP_87311_A_15213	NW_004516314.1	scaffold982	15213	CC	AA	TT	URR	101492852	cucumis-in-like
SNP_87312_A_15505	NW_004516314.1	scaffold982	15505	GG	AA	AA	URR	101492852	cucumis-in-like
SNP_87313_A_15661	NW_004516314.1	scaffold982	15661	TT	CC	CC	URR	101492852	cucumis-in-like
SNP_87314_A_15693	NW_004516314.1	scaffold982	15693	TT	GG	GG	URR	101492852	cucumis-in-like
SNP_87315_A_15701	NW_004516314.1	scaffold982	15701	CC	AA	AA	URR	101492852	cucumis-in-like
SNP_87316_A_1019	NW_004516315.1	scaffold983	1019	TT	GG	GG	INTERGENIC		
SNP_87317_A_33249	NW_004516315.1	scaffold983	33249	AA	GG	GG	INTERGENIC		
SNP_87318_A_33259	NW_004516315.1	scaffold983	33259	AA	GG	GG	INTERGENIC		
SNP_87321_A_33288	NW_004516315.1	scaffold983	33288	AA	TT	TT	INTERGENIC		
SNP_87322_A_33289	NW_004516315.1	scaffold983	33289	GG	AA	AA	INTERGENIC		
SNP_87323_A_33338	NW_004516315.1	scaffold983	33338	CC	TT	TT	INTERGENIC		
SNP_87324_A_33343	NW_004516315.1	scaffold983	33343	TT	GG	GG	INTERGENIC		
SNP_87325_A_33355	NW_004516315.1	scaffold983	33355	GG	AA	AA	INTERGENIC		
SNP_87326_A_33358	NW_004516315.1	scaffold983	33358	TT	CC	CC	INTERGENIC		
SNP_87328_A_72947	NW_004516315.1	scaffold983	72947	CC	TT	TT	INTRON	101494048	SKP1-like protein 21
SNP_87329_A_72955	NW_004516315.1	scaffold983	72955	CC	TT	TT	INTRON	101494048	SKP1-like protein 21
SNP_87330_A_76816	NW_004516315.1	scaffold983	76816	TT	CC	CC	INTERGENIC		
SNP_87331_A_88016	NW_004516315.1	scaffold983	88016	GG	AA	AA	INTERGENIC		
SNP_87332_A_88174	NW_004516315.1	scaffold983	88174	GG	CC	CC	INTERGENIC		
SNP_87334_A_88254	NW_004516315.1	scaffold983	88254	TT	CC	CC	INTERGENIC		
SNP_87335_A_88296	NW_004516315.1	scaffold983	88296	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87336_A_88343	NW_004516315.1	scaffold983	88343	CC	TT	TT	INTERGENIC			
SNP_87337_A_88349	NW_004516315.1	scaffold983	88349	GG	AA	AA	INTERGENIC			
SNP_87340_A_88683	NW_004516315.1	scaffold983	88683	TT	AA	AA	INTERGENIC			
SNP_87341_A_113999	NW_004516315.1	scaffold983	113999	CC	AA	AA	INTERGENIC			
SNP_87342_A_114002	NW_004516315.1	scaffold983	114002	AA	GG	GG	INTERGENIC			
SNP_87343_A_114023	NW_004516315.1	scaffold983	114023	CC	TT	TT	INTERGENIC			
SNP_87344_A_114029	NW_004516315.1	scaffold983	114029	TT	AA	AA	INTERGENIC			
SNP_87345_A_128776	NW_004516315.1	scaffold983	128776	GG	TT	TT	INTERGENIC			
SNP_87347_A_129500	NW_004516315.1	scaffold983	129500	TT	AA	AA	INTERGENIC			
SNP_87348_A_129501	NW_004516315.1	scaffold983	129501	CC	AA	AA	INTERGENIC			
SNP_87349_A_129519	NW_004516315.1	scaffold983	129519	GG	TT	TT	INTERGENIC			
SNP_87350_A_141413	NW_004516315.1	scaffold983	141413	TT	GG	GG	INTERGENIC			
SNP_87353_A_169346	NW_004516315.1	scaffold983	169346	TT	CC	CC	INTERGENIC			
SNP_87354_A_169466	NW_004516315.1	scaffold983	169466	GG	AA	AA	INTERGENIC			
SNP_87355_A_169601	NW_004516315.1	scaffold983	169601	AA	CC	CC	INTERGENIC			
SNP_87356_A_169618	NW_004516315.1	scaffold983	169618	CC	TT	TT	INTERGENIC			
SNP_87357_A_171689	NW_004516315.1	scaffold983	171689	AA	CC	CC	INTERGENIC			
SNP_87358_A_174279	NW_004516315.1	scaffold983	174279	AA	GG	GG	INTERGENIC			
SNP_87359_A_174407	NW_004516315.1	scaffold983	174407	TT	CC	CC	INTERGENIC			
SNP_87360_A_174421	NW_004516315.1	scaffold983	174421	TT	CC	CC	INTERGENIC			
SNP_87361_A_174446	NW_004516315.1	scaffold983	174446	CC	GG	GG	INTERGENIC			
SNP_87362_A_174522	NW_004516315.1	scaffold983	174522	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87363_A_174632	NW_004516315.1	scaffold983	174632	AA	TT	TT	INTERGENIC			
SNP_87364_A_174633	NW_004516315.1	scaffold983	174633	TT	AA	AA	INTERGENIC			
SNP_87365_A_178770	NW_004516315.1	scaffold983	178770	TT	CC	CC	INTERGENIC			
SNP_87366_A_178779	NW_004516315.1	scaffold983	178779	AA	GG	GG	INTERGENIC			
SNP_87367_A_178790	NW_004516315.1	scaffold983	178790	TT	CC	CC	INTERGENIC			
SNP_87368_A_180031	NW_004516315.1	scaffold983	180031	CC	AA	AA	INTERGENIC			
SNP_87369_A_219802	NW_004516315.1	scaffold983	219802	TT	CC	CC	INTERGENIC			
SNP_87370_A_241551	NW_004516315.1	scaffold983	241551	AA	TT	TT	URR	101493406	general transcription factor 3C polypeptide 5-like	
SNP_87371_A_254924	NW_004516315.1	scaffold983	254924	CC	TT	TT	INTERGENIC			
SNP_87372_A_255047	NW_004516315.1	scaffold983	255047	AA	GG	GG	INTERGENIC			
SNP_87373_A_255170	NW_004516315.1	scaffold983	255170	AA	GG	GG	INTERGENIC			
SNP_87376_A_287403	NW_004516315.1	scaffold983	287403	TT	AA	AA	INTERGENIC			
SNP_87377_A_287716	NW_004516315.1	scaffold983	287716	AA	CC	CC	INTERGENIC			
SNP_87378_A_287755	NW_004516315.1	scaffold983	287755	GG	TT	TT	INTERGENIC			
SNP_87379_A_287771	NW_004516315.1	scaffold983	287771	TT	CC	CC	INTERGENIC			
SNP_87380_A_287785	NW_004516315.1	scaffold983	287785	TT	CC	CC	INTERGENIC			
SNP_87381_A_287997	NW_004516315.1	scaffold983	287997	AA	TT	TT	INTERGENIC			
SNP_87382_A_288036	NW_004516315.1	scaffold983	288036	AA	CC	CC	INTERGENIC			
SNP_87383_A_293022	NW_004516315.1	scaffold983	293022	GG	AA	AA	INTERGENIC			
SNP_87384_A_356743	NW_004516315.1	scaffold983	356743	TT	CC	CC	INTERGENIC			
SNP_87385_A_356753	NW_004516315.1	scaffold983	356753	GG	AA	AA	INTERGENIC			
SNP_87386_A_356785	NW_004516315.1	scaffold983	356785	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87387_A_1314	NW_004516316.1	scaffold984	1314	AA	GG	GG	INTERGENIC		
SNP_87388_A_1375	NW_004516316.1	scaffold984	1375	TT	CC	CC	INTERGENIC		
SNP_87389_A_1435	NW_004516316.1	scaffold984	1435	AA	CC	CC	INTERGENIC		
SNP_87390_A_1455	NW_004516316.1	scaffold984	1455	GG	TT	TT	INTERGENIC		
SNP_87391_A_2759	NW_004516316.1	scaffold984	2759	AA	TT	TT	INTERGENIC		
SNP_87392_A_5717	NW_004516316.1	scaffold984	5717	AA	TT	TT	NON_SYNONYMOUS_CODING	101495314	Unknown function
SNP_87393_A_13700	NW_004516316.1	scaffold984	13700	CC	AA	AA	INTRON	101495314	Unknown function
SNP_87394_A_33665	NW_004516316.1	scaffold984	33665	TT	CC	CC	INTRON	101495314	Unknown function
SNP_87395_A_36131	NW_004516316.1	scaffold984	36131	GG	AA	AA	INTRON	101495314	Unknown function
SNP_87396_A_36187	NW_004516316.1	scaffold984	36187	GG	AA	AA	INTRON	101495314	Unknown function
SNP_87398_A_56547	NW_004516316.1	scaffold984	56547	AA	CC	CC	INTRON	101495314	Unknown function
SNP_87399_A_58357	NW_004516316.1	scaffold984	58357	CC	GG	GG	INTRON	101495314	Unknown function
SNP_87400_A_66216	NW_004516316.1	scaffold984	66216	CC	TT	TT	INTRON	101495314	Unknown function
SNP_87401_A_66328	NW_004516316.1	scaffold984	66328	TT	CC	CC	INTRON	101495314	Unknown function
SNP_87402_A_66659	NW_004516316.1	scaffold984	66659	AA	GG	GG	INTRON	101495314	Unknown function
SNP_87403_A_66719	NW_004516316.1	scaffold984	66719	TT	GG	GG	INTRON	101495314	Unknown function
SNP_87404_A_66933	NW_004516316.1	scaffold984	66933	CC	TT	TT	INTRON	101495314	Unknown function
SNP_87405_A_67034	NW_004516316.1	scaffold984	67034	GG	AA	AA	INTRON	101495314	Unknown function
SNP_87406_A_67037	NW_004516316.1	scaffold984	67037	GG	AA	AA	INTRON	101495314	Unknown function
SNP_87407_A_67043	NW_004516316.1	scaffold984	67043	TT	CC	CC	INTRON	101495314	Unknown function
SNP_87408_A_73241	NW_004516316.1	scaffold984	73241	TT	GG	GG	INTRON	101495638	Unknown function
SNP_87409_A_77778	NW_004516316.1	scaffold984	77778	TT	AA	AA	INTRON	101495638	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87410_A_78016	NW_004516316.1	scaffold984	78016	GG	TT	TT	INTRON	101495638	Unknown function
SNP_87411_A_78163	NW_004516316.1	scaffold984	78163	AA	TT	TT	INTRON	101495638	Unknown function
SNP_87412_A_78164	NW_004516316.1	scaffold984	78164	TT	GG	GG	INTRON	101495638	Unknown function
SNP_87413_A_78174	NW_004516316.1	scaffold984	78174	CC	AA	AA	INTRON	101495638	Unknown function
SNP_87414_A_78179	NW_004516316.1	scaffold984	78179	TT	CC	CC	INTRON	101495638	Unknown function
SNP_87415_A_87754	NW_004516316.1	scaffold984	87754	TT	AA	AA	INTRON	101495638	Unknown function
SNP_87416_A_88095	NW_004516316.1	scaffold984	88095	TT	CC	CC	INTRON	101495638	Unknown function
SNP_87417_A_92176	NW_004516316.1	scaffold984	92176	TT	CC	CC	INTRON	101495638	Unknown function
SNP_87418_A_92328	NW_004516316.1	scaffold984	92328	CC	TT	TT	INTRON	101495638	Unknown function
SNP_87419_A_94216	NW_004516316.1	scaffold984	94216	GG	AA	AA	INTRON	101495638	Unknown function
SNP_87420_A_94446	NW_004516316.1	scaffold984	94446	CC	AA	AA	INTRON	101495638	Unknown function
SNP_87421_A_94456	NW_004516316.1	scaffold984	94456	CC	TT	TT	INTRON	101495638	Unknown function
SNP_87422_A_94506	NW_004516316.1	scaffold984	94506	CC	GG	GG	INTRON	101495638	Unknown function
SNP_87423_A_98942	NW_004516316.1	scaffold984	98942	AA	CC	CC	INTRON	101495638	Unknown function
SNP_87424_A_105049	NW_004516316.1	scaffold984	105049	CC	TT	TT	INTRON	101495638	Unknown function
SNP_87425_A_116581	NW_004516316.1	scaffold984	116581	CC	TT	TT	INTRON	101495638	Unknown function
SNP_87426_A_118548	NW_004516316.1	scaffold984	118548	GG	AA	AA	INTRON	101495638	Unknown function
SNP_87427_A_128354	NW_004516316.1	scaffold984	128354	TT	GG	GG	INTRON	101495638	Unknown function
SNP_87428_A_129668	NW_004516316.1	scaffold984	129668	CC	TT	TT	INTRON	101495638	Unknown function
SNP_87429_A_130886	NW_004516316.1	scaffold984	130886	AA	TT	TT	INTRON	101495638	Unknown function
SNP_87430_A_132634	NW_004516316.1	scaffold984	132634	TT	CC	CC	INTRON	101495638	Unknown function
SNP_87431_A_132637	NW_004516316.1	scaffold984	132637	AA	GG	GG	INTRON	101495638	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87433_A_157531	NW_004516316.1	scaffold984	157531	CC	TT	TT	SYNONYMOUS_CODING	101495638	Unknown function
SNP_87434_A_158610	NW_004516316.1	scaffold984	158610	GG	AA	AA	URR	101495638	Unknown function
SNP_87435_A_160527	NW_004516316.1	scaffold984	160527	AA	TT	TT	INTERGENIC		
SNP_87436_A_160528	NW_004516316.1	scaffold984	160528	TT	GG	GG	INTERGENIC		
SNP_87437_A_160560	NW_004516316.1	scaffold984	160560	CC	TT	TT	INTERGENIC		
SNP_87438_A_2644	NW_004516317.1	scaffold986	2644	CC	AA	AA	INTERGENIC		
SNP_87439_A_2913	NW_004516317.1	scaffold986	2913	AA	GG	GG	INTERGENIC		
SNP_87440_A_8140	NW_004516317.1	scaffold986	8140	GG	AA	AA	INTERGENIC		
SNP_87441_A_16851	NW_004516317.1	scaffold986	16851	TT	AA	AA	INTERGENIC		
SNP_87442_A_16875	NW_004516317.1	scaffold986	16875	CC	TT	TT	INTERGENIC		
SNP_87443_A_16878	NW_004516317.1	scaffold986	16878	GG	AA	AA	INTERGENIC		
SNP_87444_A_16879	NW_004516317.1	scaffold986	16879	TT	AA	AA	INTERGENIC		
SNP_87445_A_16899	NW_004516317.1	scaffold986	16899	AA	GG	GG	INTERGENIC		
SNP_87446_A_16932	NW_004516317.1	scaffold986	16932	GG	AA	AA	INTERGENIC		
SNP_87447_A_16979	NW_004516317.1	scaffold986	16979	TT	CC	CC	INTERGENIC		
SNP_87448_A_16984	NW_004516317.1	scaffold986	16984	CC	AA	AA	INTERGENIC		
SNP_87449_A_17016	NW_004516317.1	scaffold986	17016	TT	CC	CC	INTERGENIC		
SNP_87450_A_17033	NW_004516317.1	scaffold986	17033	CC	TT	TT	INTERGENIC		
SNP_87451_A_17147	NW_004516317.1	scaffold986	17147	TT	CC	CC	INTERGENIC		
SNP_87452_A_17148	NW_004516317.1	scaffold986	17148	GG	AA	AA	INTERGENIC		
SNP_87453_A_17204	NW_004516317.1	scaffold986	17204	AA	CC	CC	INTERGENIC		
SNP_87454_A_23039	NW_004516317.1	scaffold986	23039	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87455_A_23650	NW_004516317.1	scaffold986	23650	TT	GG	GG	INTERGENIC			
SNP_87456_A_23662	NW_004516317.1	scaffold986	23662	CC	AA	AA	INTERGENIC			
SNP_87457_A_23670	NW_004516317.1	scaffold986	23670	GG	AA	AA	INTERGENIC			
SNP_87458_A_23698	NW_004516317.1	scaffold986	23698	AA	GG	GG	INTERGENIC			
SNP_87459_A_26961	NW_004516317.1	scaffold986	26961	TT	GG	GG	INTERGENIC			
SNP_87460_A_27999	NW_004516317.1	scaffold986	27999	AA	CC	CC	INTERGENIC			
SNP_87461_A_32724	NW_004516317.1	scaffold986	32724	CC	TT	TT	INTERGENIC			
SNP_87463_A_32731	NW_004516317.1	scaffold986	32731	AA	GG	GG	INTERGENIC			
SNP_87464_A_39080	NW_004516317.1	scaffold986	39080	CC	AA	AA	INTERGENIC			
SNP_87465_A_39123	NW_004516317.1	scaffold986	39123	GG	AA	AA	INTERGENIC			
SNP_87466_A_39146	NW_004516317.1	scaffold986	39146	TT	CC	CC	INTERGENIC			
SNP_87467_A_39387	NW_004516317.1	scaffold986	39387	GG	AA	AA	INTERGENIC			
SNP_87468_A_39427	NW_004516317.1	scaffold986	39427	AA	GG	GG	INTERGENIC			
SNP_87469_A_39725	NW_004516317.1	scaffold986	39725	TT	GG	GG	INTERGENIC			
SNP_87471_A_9630	NW_004516318.1	scaffold991	9630	TT	CC	CC	INTERGENIC			
SNP_87472_A_9646	NW_004516318.1	scaffold991	9646	TT	CC	CC	INTERGENIC			
SNP_87473_A_12716	NW_004516318.1	scaffold991	12716	TT	GG	GG	INTERGENIC			
SNP_87474_A_8072	NW_004516319.1	scaffold992	8072	AA	TT	TT	INTERGENIC			
SNP_87475_A_8073	NW_004516319.1	scaffold992	8073	AA	TT	TT	INTERGENIC			
SNP_87476_A_24683	NW_004516319.1	scaffold992	24683	TT	AA	AA	INTERGENIC			
SNP_87477_A_26783	NW_004516319.1	scaffold992	26783	CC	AA	AA	INTERGENIC			
SNP_87478_A_27197	NW_004516319.1	scaffold992	27197	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87479_A_32767	NW_004516319.1	scaffold992	32767	CC	TT	TT	INTERGENIC			
SNP_87480_A_33062	NW_004516319.1	scaffold992	33062	AA	GG	GG	INTERGENIC			
SNP_87481_A_33126	NW_004516319.1	scaffold992	33126	TT	CC	CC	INTERGENIC			
SNP_87482_A_33147	NW_004516319.1	scaffold992	33147	AA	GG	GG	INTERGENIC			
SNP_87484_A_36760	NW_004516319.1	scaffold992	36760	GG	TT	TT	INTERGENIC			
SNP_87486_A_37561	NW_004516319.1	scaffold992	37561	GG	TT	TT	INTERGENIC			
SNP_87488_A_37851	NW_004516319.1	scaffold992	37851	CC	TT	TT	INTERGENIC			
SNP_87489_A_37913	NW_004516319.1	scaffold992	37913	CC	AA	AA	INTERGENIC			
SNP_87490_A_37915	NW_004516319.1	scaffold992	37915	AA	CC	CC	INTERGENIC			
SNP_87491_A_39897	NW_004516319.1	scaffold992	39897	CC	AA	AA	INTERGENIC			
SNP_87492_A_40064	NW_004516319.1	scaffold992	40064	CC	GG	GG	INTERGENIC			
SNP_87493_A_40336	NW_004516319.1	scaffold992	40336	CC	GG	GG	INTERGENIC			
SNP_87494_A_40379	NW_004516319.1	scaffold992	40379	AA	GG	GG	INTERGENIC			
SNP_87495_A_40387	NW_004516319.1	scaffold992	40387	AA	CC	CC	INTERGENIC			
SNP_87496_A_40401	NW_004516319.1	scaffold992	40401	AA	TT	TT	INTERGENIC			
SNP_87497_A_40411	NW_004516319.1	scaffold992	40411	TT	GG	GG	INTERGENIC			
SNP_87498_A_40434	NW_004516319.1	scaffold992	40434	GG	CC	CC	INTERGENIC			
SNP_87499_A_40468	NW_004516319.1	scaffold992	40468	GG	TT	TT	INTERGENIC			
SNP_87501_A_40566	NW_004516319.1	scaffold992	40566	CC	GG	GG	INTERGENIC			
SNP_87502_A_40617	NW_004516319.1	scaffold992	40617	AA	GG	GG	INTERGENIC			
SNP_87503_A_40695	NW_004516319.1	scaffold992	40695	AA	GG	GG	INTERGENIC			
SNP_87504_A_40725	NW_004516319.1	scaffold992	40725	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87505_A_40738	NW_004516319.1	scaffold992	40738	AA	TT	TT	INTERGENIC			
SNP_87506_A_41411	NW_004516319.1	scaffold992	41411	GG	AA	AA	INTERGENIC			
SNP_87507_A_41456	NW_004516319.1	scaffold992	41456	TT	AA	AA	INTERGENIC			
SNP_87508_A_41745	NW_004516319.1	scaffold992	41745	GG	AA	AA	INTERGENIC			
SNP_87509_A_41746	NW_004516319.1	scaffold992	41746	GG	TT	TT	INTERGENIC			
SNP_87510_A_41816	NW_004516319.1	scaffold992	41816	TT	AA	AA	INTERGENIC			
SNP_87511_A_41909	NW_004516319.1	scaffold992	41909	GG	AA	AA	INTERGENIC			
SNP_87512_A_41924	NW_004516319.1	scaffold992	41924	TT	AA	AA	INTERGENIC			
SNP_87514_A_42061	NW_004516319.1	scaffold992	42061	AA	GG	GG	INTERGENIC			
SNP_87515_A_42074	NW_004516319.1	scaffold992	42074	AA	GG	GG	INTERGENIC			
SNP_87517_A_42140	NW_004516319.1	scaffold992	42140	CC	TT	TT	INTERGENIC			
SNP_87518_A_42240	NW_004516319.1	scaffold992	42240	CC	GG	GG	INTERGENIC			
SNP_87520_A_42349	NW_004516319.1	scaffold992	42349	CC	TT	TT	INTERGENIC			
SNP_87521_A_42353	NW_004516319.1	scaffold992	42353	CC	AA	AA	INTERGENIC			
SNP_87522_A_42379	NW_004516319.1	scaffold992	42379	CC	AA	AA	INTERGENIC			
SNP_87523_A_42406	NW_004516319.1	scaffold992	42406	TT	CC	CC	INTERGENIC			
SNP_87524_A_42505	NW_004516319.1	scaffold992	42505	GG	AA	AA	INTERGENIC			
SNP_87525_A_42543	NW_004516319.1	scaffold992	42543	AA	TT	TT	INTERGENIC			
SNP_87526_A_42549	NW_004516319.1	scaffold992	42549	TT	GG	GG	INTERGENIC			
SNP_87527_A_44867	NW_004516319.1	scaffold992	44867	GG	CC	CC	INTERGENIC			
SNP_87528_A_44946	NW_004516319.1	scaffold992	44946	GG	AA	AA	INTERGENIC			
SNP_87530_A_47917	NW_004516319.1	scaffold992	47917	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87531_A_48486	NW_004516319.1	scaffold992	48486	CC	TT	TT	INTERGENIC		
SNP_87532_A_48531	NW_004516319.1	scaffold992	48531	GG	AA	AA	INTERGENIC		
SNP_87533_A_49467	NW_004516319.1	scaffold992	49467	AA	CC	CC	INTERGENIC		
SNP_87534_A_49520	NW_004516319.1	scaffold992	49520	CC	AA	AA	INTERGENIC		
SNP_87535_A_49525	NW_004516319.1	scaffold992	49525	TT	CC	CC	INTERGENIC		
SNP_87536_A_49601	NW_004516319.1	scaffold992	49601	GG	TT	TT	INTERGENIC		
SNP_87537_A_730	NW_004516320.1	scaffold993	730	AA	GG	GG	INTERGENIC		
SNP_87538_A_1500	NW_004516320.1	scaffold993	1500	AA	CC	CC	INTERGENIC		
SNP_87539_A_1567	NW_004516320.1	scaffold993	1567	AA	CC	CC	INTERGENIC		
SNP_87542_A_87538	NW_004516321.1	scaffold996	87538	CC	TT	TT	URR	101496633	uncharacterized LOC101496633
SNP_87544_A_87701	NW_004516321.1	scaffold996	87701	AA	GG	GG	URR	101496633	uncharacterized LOC101496633
SNP_87545_A_87890	NW_004516321.1	scaffold996	87890	AA	CC	CC	URR	101496633	uncharacterized LOC101496633
SNP_87546_A_88226	NW_004516321.1	scaffold996	88226	GG	AA	AA	URR	101496633	uncharacterized LOC101496633
SNP_87547_A_88425	NW_004516321.1	scaffold996	88425	CC	GG	GG	URR	101496633	uncharacterized LOC101496633
SNP_87548_A_88738	NW_004516321.1	scaffold996	88738	AA	TT	TT	URR	101496633	uncharacterized LOC101496633
SNP_87549_A_89585	NW_004516321.1	scaffold996	89585	CC	TT	TT	INTERGENIC		
SNP_87550_A_89672	NW_004516321.1	scaffold996	89672	GG	AA	AA	DRR	101410553	transfer RNA leucine (anticodon UAG)
SNP_87552_A_142973	NW_004516321.1	scaffold996	142973	GG	CC	CC	URR	101498589	Unknown function
SNP_87554_A_178799	NW_004516321.1	scaffold996	178799	GG	AA	AA	INTERGENIC		
SNP_87555_A_179765	NW_004516321.1	scaffold996	179765	GG	AA	AA	INTERGENIC		
SNP_87556_A_180351	NW_004516321.1	scaffold996	180351	GG	TT	TT	INTERGENIC		
SNP_87557_A_180420	NW_004516321.1	scaffold996	180420	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87558_A_180426	NW_004516321.1	scaffold996	180426	CC	TT	TT	INTERGENIC			
SNP_87559_A_192448	NW_004516321.1	scaffold996	192448	TT	GG	GG	INTERGENIC			
SNP_87560_A_192462	NW_004516321.1	scaffold996	192462	AA	GG	GG	INTERGENIC			
SNP_87561_A_192770	NW_004516321.1	scaffold996	192770	GG	TT	TT	INTERGENIC			
SNP_87562_A_192778	NW_004516321.1	scaffold996	192778	TT	AA	AA	INTERGENIC			
SNP_87563_A_192779	NW_004516321.1	scaffold996	192779	CC	TT	TT	INTERGENIC			
SNP_87564_A_192789	NW_004516321.1	scaffold996	192789	GG	AA	AA	INTERGENIC			
SNP_87565_A_192833	NW_004516321.1	scaffold996	192833	AA	GG	GG	INTERGENIC			
SNP_87566_A_192835	NW_004516321.1	scaffold996	192835	AA	GG	GG	INTERGENIC			
SNP_87567_A_193181	NW_004516321.1	scaffold996	193181	TT	GG	GG	INTERGENIC			
SNP_87568_A_199473	NW_004516321.1	scaffold996	199473	CC	AA	AA	INTERGENIC			
SNP_87569_A_199493	NW_004516321.1	scaffold996	199493	AA	TT	TT	INTERGENIC			
SNP_87570_A_200969	NW_004516321.1	scaffold996	200969	TT	GG	GG	INTERGENIC			
SNP_87571_A_201045	NW_004516321.1	scaffold996	201045	GG	AA	AA	INTERGENIC			
SNP_87572_A_202118	NW_004516321.1	scaffold996	202118	TT	GG	GG	INTERGENIC			
SNP_87573_A_202604	NW_004516321.1	scaffold996	202604	GG	TT	TT	INTERGENIC			
SNP_87575_A_2907	NW_004516322.1	scaffold997	2907	GG	TT	TT	INTERGENIC			
SNP_87576_A_2979	NW_004516322.1	scaffold997	2979	AA	GG	GG	INTERGENIC			
SNP_87577_A_3015	NW_004516322.1	scaffold997	3015	GG	AA	AA	INTERGENIC			
SNP_87578_A_3018	NW_004516322.1	scaffold997	3018	GG	AA	AA	INTERGENIC			
SNP_87579_A_3025	NW_004516322.1	scaffold997	3025	AA	GG	GG	INTERGENIC			
SNP_87580_A_3030	NW_004516322.1	scaffold997	3030	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87582_A_3110	NW_004516322.1	scaffold997	3110	TT	CC	CC	INTERGENIC			
SNP_87583_A_3137	NW_004516322.1	scaffold997	3137	GG	TT	TT	INTERGENIC			
SNP_87584_A_3145	NW_004516322.1	scaffold997	3145	TT	CC	CC	INTERGENIC			
SNP_87585_A_3212	NW_004516322.1	scaffold997	3212	AA	GG	GG	INTERGENIC			
SNP_87586_A_3266	NW_004516322.1	scaffold997	3266	CC	AA	AA	INTERGENIC			
SNP_87587_A_12185	NW_004516322.1	scaffold997	12185	AA	TT	TT	INTERGENIC			
SNP_87588_A_12208	NW_004516322.1	scaffold997	12208	TT	AA	AA	INTERGENIC			
SNP_87589_A_12239	NW_004516322.1	scaffold997	12239	AA	GG	GG	INTERGENIC			
SNP_87590_A_12247	NW_004516322.1	scaffold997	12247	CC	TT	TT	INTERGENIC			
SNP_87591_A_12642	NW_004516322.1	scaffold997	12642	AA	GG	GG	INTERGENIC			
SNP_87592_A_12671	NW_004516322.1	scaffold997	12671	TT	AA	AA	INTERGENIC			
SNP_87594_A_12785	NW_004516322.1	scaffold997	12785	AA	CC	CC	INTERGENIC			
SNP_87595_A_13494	NW_004516322.1	scaffold997	13494	AA	GG	GG	INTERGENIC			
SNP_87596_A_13913	NW_004516322.1	scaffold997	13913	AA	GG	GG	INTERGENIC			
SNP_87597_A_20205	NW_004516322.1	scaffold997	20205	GG	TT	TT	INTERGENIC			
SNP_87598_A_20676	NW_004516322.1	scaffold997	20676	TT	CC	CC	INTERGENIC			
SNP_87599_A_5576	NW_004516324.1	scaffold999	5576	GG	TT	TT	INTERGENIC			
SNP_87600_A_5577	NW_004516324.1	scaffold999	5577	AA	GG	GG	INTERGENIC			
SNP_87601_A_69680	NW_004516324.1	scaffold999	69680	GG	AA	AA	INTERGENIC			
SNP_87602_A_69745	NW_004516324.1	scaffold999	69745	TT	AA	AA	INTERGENIC			
SNP_87603_A_69825	NW_004516324.1	scaffold999	69825	TT	CC	CC	INTERGENIC			
SNP_87604_A_69840	NW_004516324.1	scaffold999	69840	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87605_A_69857	NW_004516324.1	scaffold999	69857	TT	CC	CC	INTERGENIC			
SNP_87606_A_69858	NW_004516324.1	scaffold999	69858	TT	CC	CC	INTERGENIC			
SNP_87607_A_69905	NW_004516324.1	scaffold999	69905	GG	CC	CC	INTERGENIC			
SNP_87608_A_69991	NW_004516324.1	scaffold999	69991	TT	AA	AA	INTERGENIC			
SNP_87609_A_69996	NW_004516324.1	scaffold999	69996	GG	AA	AA	INTERGENIC			
SNP_87610_A_70197	NW_004516324.1	scaffold999	70197	TT	GG	GG	INTERGENIC			
SNP_87611_A_70398	NW_004516324.1	scaffold999	70398	AA	GG	GG	INTERGENIC			
SNP_87612_A_74697	NW_004516324.1	scaffold999	74697	AA	GG	GG	INTERGENIC			
SNP_87613_A_74763	NW_004516324.1	scaffold999	74763	AA	CC	CC	INTERGENIC			
SNP_87615_A_82948	NW_004516324.1	scaffold999	82948	AA	GG	GG	URR	101500422	Unknown function	
SNP_87616_A_98332	NW_004516324.1	scaffold999	98332	CC	AA	AA	INTERGENIC			
SNP_87617_A_115645	NW_004516324.1	scaffold999	115645	CC	AA	AA	INTERGENIC			
SNP_87619_A_130282	NW_004516324.1	scaffold999	130282	AA	GG	GG	INTERGENIC			
SNP_87620_A_130314	NW_004516324.1	scaffold999	130314	AA	TT	TT	INTERGENIC			
SNP_87621_A_130323	NW_004516324.1	scaffold999	130323	AA	CC	CC	INTERGENIC			
SNP_87622_A_130329	NW_004516324.1	scaffold999	130329	GG	AA	AA	INTERGENIC			
SNP_87624_A_130412	NW_004516324.1	scaffold999	130412	CC	TT	TT	INTERGENIC			
SNP_87625_A_130564	NW_004516324.1	scaffold999	130564	GG	AA	AA	INTERGENIC			
SNP_87627_A_130633	NW_004516324.1	scaffold999	130633	CC	TT	TT	INTERGENIC			
SNP_87628_A_132934	NW_004516324.1	scaffold999	132934	CC	TT	TT	INTERGENIC			
SNP_87629_A_134390	NW_004516324.1	scaffold999	134390	TT	CC	CC	INTERGENIC			
SNP_87630_A_148285	NW_004516324.1	scaffold999	148285	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87631_A_149238	NW_004516324.1	scaffold999	149238	CC	TT	TT	INTERGENIC		
SNP_87632_A_151734	NW_004516324.1	scaffold999	151734	GG	AA	AA	INTERGENIC		
SNP_87633_A_153530	NW_004516324.1	scaffold999	153530	TT	CC	CC	INTERGENIC		
SNP_87634_A_156047	NW_004516324.1	scaffold999	156047	TT	CC	CC	INTERGENIC		
SNP_87635_A_156076	NW_004516324.1	scaffold999	156076	AA	GG	GG	INTERGENIC		
SNP_87636_A_9664	NW_004516326.1	scaffold1003	9664	TT	CC	CC	DRR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87637_A_12870	NW_004516326.1	scaffold1003	12870	AA	GG	GG	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87638_A_12981	NW_004516326.1	scaffold1003	12981	GG	CC	CC	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87639_A_13049	NW_004516326.1	scaffold1003	13049	TT	CC	CC	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87640_A_13196	NW_004516326.1	scaffold1003	13196	AA	GG	GG	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87641_A_13541	NW_004516326.1	scaffold1003	13541	AA	GG	GG	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87642_A_13565	NW_004516326.1	scaffold1003	13565	CC	TT	TT	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87644_A_13662	NW_004516326.1	scaffold1003	13662	AA	CC	CC	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87645_A_13668	NW_004516326.1	scaffold1003	13668	TT	AA	AA	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87646_A_13886	NW_004516326.1	scaffold1003	13886	AA	GG	GG	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87647_A_13894	NW_004516326.1	scaffold1003	13894	GG	CC	CC	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87648_A_14066	NW_004516326.1	scaffold1003	14066	CC	AA	AA	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87649_A_14134	NW_004516326.1	scaffold1003	14134	CC	GG	GG	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87650_A_14146	NW_004516326.1	scaffold1003	14146	CC	AA	AA	URR	101501042	deacetoxyvindoline 4-hydroxylase-like
SNP_87651_A_14223	NW_004516326.1	scaffold1003	14223	TT	CC	CC	INTERGENIC		
SNP_87652_A_14559	NW_004516326.1	scaffold1003	14559	CC	AA	AA	INTERGENIC		
SNP_87653_A_14981	NW_004516326.1	scaffold1003	14981	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87654_A_15771	NW_004516326.1	scaffold1003	15771	TT	AA	AA	INTERGENIC		
SNP_87655_A_41321	NW_004516326.1	scaffold1003	41321	AA	GG	GG	INTERGENIC		
SNP_87658_A_41558	NW_004516326.1	scaffold1003	41558	TT	CC	CC	INTERGENIC		
SNP_87659_A_41614	NW_004516326.1	scaffold1003	41614	GG	AA	AA	INTERGENIC		
SNP_87660_A_40363	NW_004516329.1	scaffold1006	40363	GG	AA	AA	NON_SYNONYMOUS_CODING	101501678	Unknown function
SNP_87661_A_40388	NW_004516329.1	scaffold1006	40388	TT	AA	AA	NON_SYNONYMOUS_CODING	101501678	Unknown function
SNP_87662_A_44621	NW_004516329.1	scaffold1006	44621	AA	GG	GG	URR	101501678	Unknown function
SNP_87663_A_62388	NW_004516329.1	scaffold1006	62388	TT	AA	AA	INTERGENIC		
SNP_87664_A_62436	NW_004516329.1	scaffold1006	62436	AA	GG	GG	INTERGENIC		
SNP_87665_A_65884	NW_004516329.1	scaffold1006	65884	GG	AA	AA	INTERGENIC		
SNP_87666_A_92868	NW_004516329.1	scaffold1006	92868	GG	CC	CC	INTERGENIC		
SNP_87667_A_92869	NW_004516329.1	scaffold1006	92869	TT	GG	GG	INTERGENIC		
SNP_87668_A_109438	NW_004516329.1	scaffold1006	109438	TT	AA	AA	INTERGENIC		
SNP_87669_A_109441	NW_004516329.1	scaffold1006	109441	CC	AA	AA	INTERGENIC		
SNP_87671_A_109503	NW_004516329.1	scaffold1006	109503	GG	AA	AA	INTERGENIC		
SNP_87672_A_109658	NW_004516329.1	scaffold1006	109658	TT	CC	CC	INTERGENIC		
SNP_87673_A_109708	NW_004516329.1	scaffold1006	109708	CC	TT	TT	INTERGENIC		
SNP_87674_A_109793	NW_004516329.1	scaffold1006	109793	CC	TT	TT	INTERGENIC		
SNP_87675_A_109794	NW_004516329.1	scaffold1006	109794	AA	TT	TT	INTERGENIC		
SNP_87676_A_109836	NW_004516329.1	scaffold1006	109836	GG	AA	AA	INTERGENIC		
SNP_87677_A_109878	NW_004516329.1	scaffold1006	109878	TT	GG	GG	INTERGENIC		
SNP_87678_A_109912	NW_004516329.1	scaffold1006	109912	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87679_A_126249	NW_004516329.1	scaffold1006	126249	TT	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87680_A_126255	NW_004516329.1	scaffold1006	126255	CC	AA	AA	INTRON	101492184	TMV resistance protein N-like
SNP_87681_A_126274	NW_004516329.1	scaffold1006	126274	TT	AA	AA	INTRON	101492184	TMV resistance protein N-like
SNP_87682_A_126420	NW_004516329.1	scaffold1006	126420	CC	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87683_A_126545	NW_004516329.1	scaffold1006	126545	TT	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87684_A_126547	NW_004516329.1	scaffold1006	126547	GG	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87685_A_126641	NW_004516329.1	scaffold1006	126641	TT	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87686_A_126840	NW_004516329.1	scaffold1006	126840	CC	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87687_A_127083	NW_004516329.1	scaffold1006	127083	CC	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87688_A_127476	NW_004516329.1	scaffold1006	127476	TT	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87689_A_127567	NW_004516329.1	scaffold1006	127567	AA	GG	GG	INTRON	101492184	TMV resistance protein N-like
SNP_87690_A_127569	NW_004516329.1	scaffold1006	127569	AA	GG	GG	INTRON	101492184	TMV resistance protein N-like
SNP_87691_A_127639	NW_004516329.1	scaffold1006	127639	GG	AA	AA	INTRON	101492184	TMV resistance protein N-like
SNP_87692_A_127705	NW_004516329.1	scaffold1006	127705	CC	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87693_A_127829	NW_004516329.1	scaffold1006	127829	GG	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87694_A_127846	NW_004516329.1	scaffold1006	127846	AA	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87695_A_127911	NW_004516329.1	scaffold1006	127911	TT	CC	CC	INTRON	101492184	TMV resistance protein N-like
SNP_87696_A_127971	NW_004516329.1	scaffold1006	127971	CC	AA	AA	INTRON	101492184	TMV resistance protein N-like
SNP_87697_A_128096	NW_004516329.1	scaffold1006	128096	GG	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87698_A_128106	NW_004516329.1	scaffold1006	128106	GG	TT	TT	INTRON	101492184	TMV resistance protein N-like
SNP_87699_A_156043	NW_004516329.1	scaffold1006	156043	GG	AA	AA	INTERGENIC		
SNP_87700_A_162183	NW_004516329.1	scaffold1006	162183	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87701_A_162222	NW_004516329.1	scaffold1006	162222	TT	CC	CC	INTERGENIC		
SNP_87702_A_165176	NW_004516329.1	scaffold1006	165176	CC	TT	TT	INTERGENIC		
SNP_87703_A_165211	NW_004516329.1	scaffold1006	165211	TT	AA	AA	INTERGENIC		
SNP_87704_A_165406	NW_004516329.1	scaffold1006	165406	AA	CC	CC	INTERGENIC		
SNP_87705_A_165451	NW_004516329.1	scaffold1006	165451	CC	TT	TT	INTERGENIC		
SNP_87706_A_165479	NW_004516329.1	scaffold1006	165479	TT	CC	CC	INTERGENIC		
SNP_87707_A_196949	NW_004516329.1	scaffold1006	196949	TT	GG	GG	DRR	101493186	Unknown function
SNP_87708_A_196950	NW_004516329.1	scaffold1006	196950	AA	GG	GG	DRR	101493186	Unknown function
SNP_87709_A_196996	NW_004516329.1	scaffold1006	196996	TT	CC	CC	DRR	101493186	Unknown function
SNP_87711_A_299835	NW_004516329.1	scaffold1006	299835	AA	GG	GG	INTERGENIC		
SNP_87712_A_324054	NW_004516329.1	scaffold1006	324054	GG	AA	AA	INTERGENIC		
SNP_87713_A_336141	NW_004516329.1	scaffold1006	336141	GG	TT	TT	DRR	101508440	beta-amylase 1, chloroplastic
SNP_87714_A_400007	NW_004516329.1	scaffold1006	400007	CC	AA	AA	INTERGENIC		
SNP_87716_A_407883	NW_004516329.1	scaffold1006	407883	TT	CC	CC	INTERGENIC		
SNP_87717_A_413812	NW_004516329.1	scaffold1006	413812	CC	GG	GG	INTERGENIC		
SNP_87718_A_419106	NW_004516329.1	scaffold1006	419106	CC	TT	TT	INTERGENIC		
SNP_87719_A_448330	NW_004516329.1	scaffold1006	448330	AA	GG	GG	INTERGENIC		
SNP_87720_A_484085	NW_004516329.1	scaffold1006	484085	CC	TT	TT	INTERGENIC		
SNP_87722_A_558904	NW_004516329.1	scaffold1006	558904	AA	CC	CC	INTERGENIC		
SNP_87723_A_559403	NW_004516329.1	scaffold1006	559403	AA	GG	GG	INTERGENIC		
SNP_87724_A_559480	NW_004516329.1	scaffold1006	559480	GG	TT	TT	INTERGENIC		
SNP_87725_A_567575	NW_004516329.1	scaffold1006	567575	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87726_A_567867	NW_004516329.1	scaffold1006	567867	TT	CC	CC	INTERGENIC		
SNP_87727_A_567906	NW_004516329.1	scaffold1006	567906	AA	GG	GG	INTERGENIC		
SNP_87728_A_567972	NW_004516329.1	scaffold1006	567972	GG	AA	AA	INTERGENIC		
SNP_87729_A_578296	NW_004516329.1	scaffold1006	578296	TT	CC	CC	DRR	101494775	uncharacterized LOC101494775
SNP_87730_A_578298	NW_004516329.1	scaffold1006	578298	AA	TT	TT	DRR	101494775	uncharacterized LOC101494775
SNP_87731_A_578299	NW_004516329.1	scaffold1006	578299	TT	CC	CC	DRR	101494775	uncharacterized LOC101494775
SNP_87732_A_578359	NW_004516329.1	scaffold1006	578359	GG	AA	AA	DRR	101494775	uncharacterized LOC101494775
SNP_87733_A_578512	NW_004516329.1	scaffold1006	578512	GG	CC	CC	DRR	101494775	uncharacterized LOC101494775
SNP_87734_A_578610	NW_004516329.1	scaffold1006	578610	GG	AA	AA	DRR	101494775	uncharacterized LOC101494775
SNP_87735_A_578655	NW_004516329.1	scaffold1006	578655	GG	AA	AA	DRR	101494775	uncharacterized LOC101494775
SNP_87736_A_583340	NW_004516329.1	scaffold1006	583340	GG	AA	AA	DRR	101495108	early nodulin-55-1-like
SNP_87737_A_583386	NW_004516329.1	scaffold1006	583386	TT	AA	AA	DRR	101495108	early nodulin-55-1-like
SNP_87738_A_583389	NW_004516329.1	scaffold1006	583389	CC	GG	GG	DRR	101495108	early nodulin-55-1-like
SNP_87741_A_667489	NW_004516329.1	scaffold1006	667489	TT	CC	CC	INTRON	101490903	DNA-binding protein RHL1
SNP_87742_A_683409	NW_004516329.1	scaffold1006	683409	GG	AA	AA	INTERGENIC		
SNP_87743_A_1434	NW_004516331.1	scaffold1008	1434	AA	GG	GG	INTERGENIC		
SNP_87744_A_12134	NW_004516331.1	scaffold1008	12134	CC	TT	TT	INTERGENIC		
SNP_87745_A_12186	NW_004516331.1	scaffold1008	12186	CC	GG	GG	INTERGENIC		
SNP_87746_A_12327	NW_004516331.1	scaffold1008	12327	AA	GG	GG	INTERGENIC		
SNP_87747_A_12349	NW_004516331.1	scaffold1008	12349	TT	CC	CC	INTERGENIC		
SNP_87748_A_12419	NW_004516331.1	scaffold1008	12419	CC	GG	GG	INTERGENIC		
SNP_87749_A_12584	NW_004516331.1	scaffold1008	12584	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87750_A_12626	NW_004516331.1	scaffold1008	12626	TT	GG	GG	INTERGENIC			
SNP_87752_A_12723	NW_004516331.1	scaffold1008	12723	AA	GG	GG	INTERGENIC			
SNP_87754_A_13172	NW_004516331.1	scaffold1008	13172	AA	GG	GG	INTERGENIC			
SNP_87755_A_13314	NW_004516331.1	scaffold1008	13314	GG	AA	AA	INTERGENIC			
SNP_87756_A_13398	NW_004516331.1	scaffold1008	13398	TT	AA	AA	INTERGENIC			
SNP_87757_A_13414	NW_004516331.1	scaffold1008	13414	TT	CC	CC	INTERGENIC			
SNP_87758_A_13415	NW_004516331.1	scaffold1008	13415	AA	TT	TT	INTERGENIC			
SNP_87759_A_13422	NW_004516331.1	scaffold1008	13422	GG	AA	AA	INTERGENIC			
SNP_87760_A_13428	NW_004516331.1	scaffold1008	13428	CC	AA	AA	INTERGENIC			
SNP_87761_A_13433	NW_004516331.1	scaffold1008	13433	TT	CC	CC	INTERGENIC			
SNP_87762_A_13436	NW_004516331.1	scaffold1008	13436	GG	TT	TT	INTERGENIC			
SNP_87763_A_14646	NW_004516331.1	scaffold1008	14646	TT	CC	CC	INTERGENIC			
SNP_87764_A_14667	NW_004516331.1	scaffold1008	14667	CC	TT	TT	INTERGENIC			
SNP_87765_A_14738	NW_004516331.1	scaffold1008	14738	TT	CC	CC	INTERGENIC			
SNP_87766_A_14816	NW_004516331.1	scaffold1008	14816	AA	GG	GG	INTERGENIC			
SNP_87767_A_14836	NW_004516331.1	scaffold1008	14836	AA	TT	TT	INTERGENIC			
SNP_87768_A_15051	NW_004516331.1	scaffold1008	15051	TT	GG	GG	INTERGENIC			
SNP_87769_A_20374	NW_004516331.1	scaffold1008	20374	TT	CC	CC	INTERGENIC			
SNP_87771_A_22997	NW_004516331.1	scaffold1008	22997	AA	GG	GG	INTERGENIC			
SNP_87772_A_23023	NW_004516331.1	scaffold1008	23023	TT	GG	GG	INTERGENIC			
SNP_87773_A_39867	NW_004516331.1	scaffold1008	39867	CC	AA	AA	INTERGENIC			
SNP_87774_A_39883	NW_004516331.1	scaffold1008	39883	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87775_A_42259	NW_004516331.1	scaffold1008	42259	GG	AA	AA	INTERGENIC			
SNP_87776_A_42269	NW_004516331.1	scaffold1008	42269	GG	AA	AA	INTERGENIC			
SNP_87777_A_42303	NW_004516331.1	scaffold1008	42303	AA	CC	CC	INTERGENIC			
SNP_87778_A_42331	NW_004516331.1	scaffold1008	42331	TT	CC	CC	INTERGENIC			
SNP_87779_A_42459	NW_004516331.1	scaffold1008	42459	TT	CC	CC	INTERGENIC			
SNP_87780_A_42506	NW_004516331.1	scaffold1008	42506	AA	CC	CC	INTERGENIC			
SNP_87782_A_42661	NW_004516331.1	scaffold1008	42661	CC	TT	TT	INTERGENIC			
SNP_87784_A_54397	NW_004516331.1	scaffold1008	54397	GG	CC	CC	INTERGENIC			
SNP_87785_A_54398	NW_004516331.1	scaffold1008	54398	CC	TT	TT	INTERGENIC			
SNP_87786_A_61671	NW_004516331.1	scaffold1008	61671	AA	TT	TT	INTERGENIC			
SNP_87787_A_61681	NW_004516331.1	scaffold1008	61681	CC	AA	AA	INTERGENIC			
SNP_87788_A_61852	NW_004516331.1	scaffold1008	61852	TT	CC	CC	INTERGENIC			
SNP_87789_A_61882	NW_004516331.1	scaffold1008	61882	GG	AA	AA	INTERGENIC			
SNP_87790_A_61891	NW_004516331.1	scaffold1008	61891	GG	AA	AA	INTERGENIC			
SNP_87791_A_61912	NW_004516331.1	scaffold1008	61912	GG	TT	TT	INTERGENIC			
SNP_87792_A_62025	NW_004516331.1	scaffold1008	62025	TT	CC	CC	INTERGENIC			
SNP_87793_A_62043	NW_004516331.1	scaffold1008	62043	CC	AA	AA	INTERGENIC			
SNP_87794_A_62058	NW_004516331.1	scaffold1008	62058	AA	GG	GG	INTERGENIC			
SNP_87795_A_62077	NW_004516331.1	scaffold1008	62077	GG	AA	AA	INTERGENIC			
SNP_87796_A_62100	NW_004516331.1	scaffold1008	62100	TT	CC	CC	INTERGENIC			
SNP_87797_A_80685	NW_004516331.1	scaffold1008	80685	CC	TT	TT	INTERGENIC			
SNP_87798_A_85780	NW_004516331.1	scaffold1008	85780	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_87800_A_843	NW_004516333.1	scaffold1010	843	TT	CC	CC	INTERGENIC		
SNP_87801_A_21078	NW_004516333.1	scaffold1010	21078	AA	GG	GG	INTERGENIC		
SNP_87803_A_21093	NW_004516333.1	scaffold1010	21093	AA	GG	GG	INTERGENIC		
SNP_87804_A_40817	NW_004516333.1	scaffold1010	40817	AA	GG	GG	INTRON	101497176	uncharacterized LOC101497176
SNP_87805_A_52771	NW_004516333.1	scaffold1010	52771	TT	AA	AA	INTERGENIC		
SNP_87806_A_52805	NW_004516333.1	scaffold1010	52805	TT	CC	CC	INTERGENIC		
SNP_87807_A_94310	NW_004516333.1	scaffold1010	94310	AA	GG	GG	INTERGENIC		
SNP_87808_A_94314	NW_004516333.1	scaffold1010	94314	GG	AA	AA	INTERGENIC		
SNP_87809_A_111983	NW_004516333.1	scaffold1010	111983	AA	CC	CC	INTERGENIC		
SNP_87810_A_117031	NW_004516333.1	scaffold1010	117031	AA	GG	GG	URR	101495967	Unknown function
SNP_87811_A_117032	NW_004516333.1	scaffold1010	117032	TT	CC	CC	URR	101495967	Unknown function
SNP_87812_A_135160	NW_004516333.1	scaffold1010	135160	CC	GG	GG	URR	101496516	uncharacterized LOC101496516
SNP_87813_A_154863	NW_004516333.1	scaffold1010	154863	GG	AA	AA	INTERGENIC		
SNP_87814_A_155352	NW_004516333.1	scaffold1010	155352	GG	AA	AA	INTERGENIC		
SNP_87815_A_155393	NW_004516333.1	scaffold1010	155393	GG	AA	AA	INTERGENIC		
SNP_87817_A_158198	NW_004516333.1	scaffold1010	158198	AA	CC	CC	INTERGENIC		
SNP_87818_A_160806	NW_004516333.1	scaffold1010	160806	GG	AA	AA	INTERGENIC		
SNP_87819_A_161249	NW_004516333.1	scaffold1010	161249	AA	GG	GG	INTERGENIC		
SNP_87820_A_25156	NW_004516335.1	scaffold1013	25156	TT	CC	CC	INTERGENIC		
SNP_87822_A_61008	NW_004516335.1	scaffold1013	61008	AA	TT	TT	INTERGENIC		
SNP_87823_A_61242	NW_004516335.1	scaffold1013	61242	GG	TT	TT	INTERGENIC		
SNP_87824_A_64633	NW_004516335.1	scaffold1013	64633	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87825_A_66528	NW_004516335.1	scaffold1013	66528	TT	CC	CC	INTERGENIC			
SNP_87826_A_70154	NW_004516335.1	scaffold1013	70154	AA	GG	GG	INTERGENIC			
SNP_87827_A_9643	NW_004516337.1	scaffold1017	9643	TT	CC	CC	INTERGENIC			
SNP_87828_A_9893	NW_004516337.1	scaffold1017	9893	GG	CC	CC	INTERGENIC			
SNP_87830_A_12790	NW_004516337.1	scaffold1017	12790	GG	AA	AA	INTERGENIC			
SNP_87832_A_12879	NW_004516337.1	scaffold1017	12879	GG	CC	CC	INTERGENIC			
SNP_87833_A_12929	NW_004516337.1	scaffold1017	12929	CC	AA	AA	INTERGENIC			
SNP_87834_A_12931	NW_004516337.1	scaffold1017	12931	TT	CC	CC	INTERGENIC			
SNP_87835_A_13050	NW_004516337.1	scaffold1017	13050	GG	CC	CC	INTERGENIC			
SNP_87836_A_13051	NW_004516337.1	scaffold1017	13051	CC	TT	TT	INTERGENIC			
SNP_87837_A_13067	NW_004516337.1	scaffold1017	13067	TT	CC	CC	INTERGENIC			
SNP_87838_A_13129	NW_004516337.1	scaffold1017	13129	TT	GG	GG	INTERGENIC			
SNP_87839_A_13136	NW_004516337.1	scaffold1017	13136	AA	TT	TT	INTERGENIC			
SNP_87840_A_13143	NW_004516337.1	scaffold1017	13143	CC	TT	TT	INTERGENIC			
SNP_87841_A_13312	NW_004516337.1	scaffold1017	13312	TT	CC	CC	INTERGENIC			
SNP_87842_A_13323	NW_004516337.1	scaffold1017	13323	AA	GG	GG	INTERGENIC			
SNP_87843_A_13449	NW_004516337.1	scaffold1017	13449	GG	AA	AA	INTERGENIC			
SNP_87844_A_13532	NW_004516337.1	scaffold1017	13532	AA	CC	CC	INTERGENIC			
SNP_87845_A_13603	NW_004516337.1	scaffold1017	13603	GG	CC	CC	INTERGENIC			
SNP_87846_A_13634	NW_004516337.1	scaffold1017	13634	TT	AA	AA	INTERGENIC			
SNP_87847_A_13704	NW_004516337.1	scaffold1017	13704	GG	AA	AA	INTERGENIC			
SNP_87848_A_13776	NW_004516337.1	scaffold1017	13776	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87849_A_13811	NW_004516337.1	scaffold1017	13811	CC	TT	TT	INTERGENIC			
SNP_87850_A_13984	NW_004516337.1	scaffold1017	13984	TT	CC	CC	INTERGENIC			
SNP_87851_A_14007	NW_004516337.1	scaffold1017	14007	CC	TT	TT	INTERGENIC			
SNP_87852_A_14036	NW_004516337.1	scaffold1017	14036	TT	CC	CC	INTERGENIC			
SNP_87853_A_14067	NW_004516337.1	scaffold1017	14067	CC	TT	TT	INTERGENIC			
SNP_87854_A_14106	NW_004516337.1	scaffold1017	14106	TT	CC	CC	INTERGENIC			
SNP_87855_A_14142	NW_004516337.1	scaffold1017	14142	CC	TT	TT	INTERGENIC			
SNP_87856_A_14232	NW_004516337.1	scaffold1017	14232	AA	CC	CC	INTERGENIC			
SNP_87857_A_14252	NW_004516337.1	scaffold1017	14252	AA	GG	GG	INTERGENIC			
SNP_87858_A_14266	NW_004516337.1	scaffold1017	14266	AA	GG	GG	INTERGENIC			
SNP_87859_A_14272	NW_004516337.1	scaffold1017	14272	GG	AA	AA	INTERGENIC			
SNP_87860_A_14304	NW_004516337.1	scaffold1017	14304	TT	CC	CC	INTERGENIC			
SNP_87861_A_14351	NW_004516337.1	scaffold1017	14351	GG	AA	AA	INTERGENIC			
SNP_87862_A_14373	NW_004516337.1	scaffold1017	14373	AA	GG	GG	INTERGENIC			
SNP_87863_A_14396	NW_004516337.1	scaffold1017	14396	CC	AA	AA	INTERGENIC			
SNP_87864_A_14417	NW_004516337.1	scaffold1017	14417	CC	TT	TT	INTERGENIC			
SNP_87865_A_14429	NW_004516337.1	scaffold1017	14429	CC	TT	TT	INTERGENIC			
SNP_87866_A_19303	NW_004516337.1	scaffold1017	19303	CC	AA	AA	INTERGENIC			
SNP_87867_A_19413	NW_004516337.1	scaffold1017	19413	GG	AA	AA	INTERGENIC			
SNP_87868_A_19440	NW_004516337.1	scaffold1017	19440	TT	CC	CC	INTERGENIC			
SNP_87869_A_19557	NW_004516337.1	scaffold1017	19557	TT	GG	GG	INTERGENIC			
SNP_87870_A_19577	NW_004516337.1	scaffold1017	19577	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87871_A_19621	NW_004516337.1	scaffold1017	19621	TT	CC	CC	INTERGENIC			
SNP_87872_A_19623	NW_004516337.1	scaffold1017	19623	GG	AA	AA	INTERGENIC			
SNP_87873_A_19642	NW_004516337.1	scaffold1017	19642	CC	AA	AA	INTERGENIC			
SNP_87874_A_19717	NW_004516337.1	scaffold1017	19717	CC	AA	AA	INTERGENIC			
SNP_87875_A_19925	NW_004516337.1	scaffold1017	19925	AA	CC	CC	INTERGENIC			
SNP_87876_A_20525	NW_004516337.1	scaffold1017	20525	TT	AA	AA	INTERGENIC			
SNP_87877_A_20846	NW_004516337.1	scaffold1017	20846	AA	TT	TT	INTERGENIC			
SNP_87878_A_20912	NW_004516337.1	scaffold1017	20912	AA	CC	CC	INTERGENIC			
SNP_87879_A_21046	NW_004516337.1	scaffold1017	21046	TT	CC	CC	INTERGENIC			
SNP_87880_A_27209	NW_004516337.1	scaffold1017	27209	CC	TT	TT	INTERGENIC			
SNP_87881_A_27213	NW_004516337.1	scaffold1017	27213	TT	CC	CC	INTERGENIC			
SNP_87882_A_27959	NW_004516337.1	scaffold1017	27959	CC	AA	AA	INTERGENIC			
SNP_87883_A_27976	NW_004516337.1	scaffold1017	27976	TT	CC	CC	INTERGENIC			
SNP_87884_A_28022	NW_004516337.1	scaffold1017	28022	GG	AA	AA	INTERGENIC			
SNP_87885_A_28300	NW_004516337.1	scaffold1017	28300	TT	CC	CC	INTERGENIC			
SNP_87886_A_28439	NW_004516337.1	scaffold1017	28439	TT	CC	CC	INTERGENIC			
SNP_87887_A_28478	NW_004516337.1	scaffold1017	28478	GG	AA	AA	INTERGENIC			
SNP_87888_A_29649	NW_004516337.1	scaffold1017	29649	CC	GG	GG	INTERGENIC			
SNP_87889_A_29722	NW_004516337.1	scaffold1017	29722	CC	TT	TT	INTERGENIC			
SNP_87890_A_29731	NW_004516337.1	scaffold1017	29731	GG	TT	TT	INTERGENIC			
SNP_87891_A_29737	NW_004516337.1	scaffold1017	29737	AA	GG	GG	INTERGENIC			
SNP_87892_A_30015	NW_004516337.1	scaffold1017	30015	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87893_A_30025	NW_004516337.1	scaffold1017	30025	AA	CC	CC	INTERGENIC			
SNP_87894_A_30070	NW_004516337.1	scaffold1017	30070	AA	CC	CC	INTERGENIC			
SNP_87895_A_30094	NW_004516337.1	scaffold1017	30094	AA	TT	TT	INTERGENIC			
SNP_87896_A_30320	NW_004516337.1	scaffold1017	30320	CC	GG	GG	INTERGENIC			
SNP_87897_A_31579	NW_004516337.1	scaffold1017	31579	TT	CC	CC	INTERGENIC			
SNP_87898_A_32303	NW_004516337.1	scaffold1017	32303	TT	GG	GG	INTERGENIC			
SNP_87899_A_32306	NW_004516337.1	scaffold1017	32306	CC	TT	TT	INTERGENIC			
SNP_87900_A_32319	NW_004516337.1	scaffold1017	32319	CC	AA	AA	INTERGENIC			
SNP_87901_A_32499	NW_004516337.1	scaffold1017	32499	TT	CC	CC	INTERGENIC			
SNP_87902_A_32500	NW_004516337.1	scaffold1017	32500	AA	GG	GG	INTERGENIC			
SNP_87903_A_32501	NW_004516337.1	scaffold1017	32501	AA	TT	TT	INTERGENIC			
SNP_87904_A_32658	NW_004516337.1	scaffold1017	32658	AA	GG	GG	INTERGENIC			
SNP_87905_A_32713	NW_004516337.1	scaffold1017	32713	TT	CC	CC	INTERGENIC			
SNP_87906_A_38563	NW_004516337.1	scaffold1017	38563	CC	AA	AA	INTERGENIC			
SNP_87908_A_38729	NW_004516337.1	scaffold1017	38729	TT	AA	AA	INTERGENIC			
SNP_87909_A_42609	NW_004516337.1	scaffold1017	42609	CC	TT	TT	INTERGENIC			
SNP_87910_A_42773	NW_004516337.1	scaffold1017	42773	AA	TT	TT	INTERGENIC			
SNP_87911_A_43400	NW_004516337.1	scaffold1017	43400	GG	TT	TT	INTERGENIC			
SNP_87912_A_43450	NW_004516337.1	scaffold1017	43450	CC	TT	TT	INTERGENIC			
SNP_87913_A_43514	NW_004516337.1	scaffold1017	43514	CC	TT	TT	INTERGENIC			
SNP_87914_A_43517	NW_004516337.1	scaffold1017	43517	CC	TT	TT	INTERGENIC			
SNP_87915_A_43557	NW_004516337.1	scaffold1017	43557	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87916_A_50337	NW_004516337.1	scaffold1017	50337	AA	GG	GG	INTERGENIC			
SNP_87917_A_50381	NW_004516337.1	scaffold1017	50381	CC	TT	TT	INTERGENIC			
SNP_87918_A_1402	NW_004516338.1	scaffold1020	1402	AA	GG	GG	INTERGENIC			
SNP_87919_A_1572	NW_004516338.1	scaffold1020	1572	AA	GG	GG	INTERGENIC			
SNP_87920_A_1623	NW_004516338.1	scaffold1020	1623	AA	GG	GG	INTERGENIC			
SNP_87921_A_1813	NW_004516338.1	scaffold1020	1813	GG	AA	AA	INTERGENIC			
SNP_87922_A_2008	NW_004516338.1	scaffold1020	2008	TT	CC	CC	INTERGENIC			
SNP_87923_A_16333	NW_004516338.1	scaffold1020	16333	AA	CC	CC	INTERGENIC			
SNP_87924_A_27920	NW_004516338.1	scaffold1020	27920	GG	AA	AA	INTERGENIC			
SNP_87925_A_52421	NW_004516338.1	scaffold1020	52421	TT	CC	CC	INTERGENIC			
SNP_87926_A_54220	NW_004516338.1	scaffold1020	54220	CC	TT	TT	INTERGENIC			
SNP_87927_A_91580	NW_004516338.1	scaffold1020	91580	AA	CC	CC	INTERGENIC			
SNP_87928_A_118406	NW_004516338.1	scaffold1020	118406	CC	TT	TT	DRR	101499475	uncharacterized LOC101499475	
SNP_87929_A_120809	NW_004516338.1	scaffold1020	120809	AA	GG	GG	INTERGENIC			
SNP_87930_A_120837	NW_004516338.1	scaffold1020	120837	GG	TT	TT	INTERGENIC			
SNP_87931_A_120852	NW_004516338.1	scaffold1020	120852	GG	AA	AA	INTERGENIC			
SNP_87932_A_121205	NW_004516338.1	scaffold1020	121205	TT	CC	CC	INTERGENIC			
SNP_87933_A_122038	NW_004516338.1	scaffold1020	122038	CC	GG	GG	INTERGENIC			
SNP_87934_A_125600	NW_004516338.1	scaffold1020	125600	TT	CC	CC	INTERGENIC			
SNP_87935_A_125635	NW_004516338.1	scaffold1020	125635	TT	CC	CC	INTERGENIC			
SNP_87936_A_127807	NW_004516338.1	scaffold1020	127807	TT	CC	CC	INTERGENIC			
SNP_87937_A_127815	NW_004516338.1	scaffold1020	127815	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87938_A_127824	NW_004516338.1	scaffold1020	127824	AA	CC	CC	INTERGENIC			
SNP_87939_A_127825	NW_004516338.1	scaffold1020	127825	TT	CC	CC	INTERGENIC			
SNP_87940_A_127843	NW_004516338.1	scaffold1020	127843	TT	CC	CC	INTERGENIC			
SNP_87941_A_127855	NW_004516338.1	scaffold1020	127855	CC	TT	TT	INTERGENIC			
SNP_87942_A_127864	NW_004516338.1	scaffold1020	127864	GG	AA	AA	INTERGENIC			
SNP_87943_A_127877	NW_004516338.1	scaffold1020	127877	CC	TT	TT	INTERGENIC			
SNP_87944_A_127879	NW_004516338.1	scaffold1020	127879	TT	AA	AA	INTERGENIC			
SNP_87945_A_127894	NW_004516338.1	scaffold1020	127894	TT	CC	CC	INTERGENIC			
SNP_87946_A_136516	NW_004516338.1	scaffold1020	136516	CC	TT	TT	INTERGENIC			
SNP_87947_A_158475	NW_004516338.1	scaffold1020	158475	CC	AA	AA	INTERGENIC			
SNP_87948_A_158518	NW_004516338.1	scaffold1020	158518	GG	AA	AA	INTERGENIC			
SNP_87949_A_158822	NW_004516338.1	scaffold1020	158822	CC	TT	TT	INTERGENIC			
SNP_87950_A_175261	NW_004516338.1	scaffold1020	175261	TT	CC	CC	INTERGENIC			
SNP_87951_A_177098	NW_004516338.1	scaffold1020	177098	CC	AA	AA	INTERGENIC			
SNP_87952_A_177202	NW_004516338.1	scaffold1020	177202	GG	TT	TT	INTERGENIC			
SNP_87953_A_177536	NW_004516338.1	scaffold1020	177536	TT	CC	CC	INTERGENIC			
SNP_87954_A_177553	NW_004516338.1	scaffold1020	177553	AA	GG	GG	INTERGENIC			
SNP_87955_A_182887	NW_004516338.1	scaffold1020	182887	CC	TT	TT	INTERGENIC			
SNP_87956_A_197123	NW_004516338.1	scaffold1020	197123	AA	GG	GG	INTERGENIC			
SNP_87957_A_197155	NW_004516338.1	scaffold1020	197155	GG	AA	AA	INTERGENIC			
SNP_87958_A_197166	NW_004516338.1	scaffold1020	197166	GG	AA	AA	INTERGENIC			
SNP_87960_A_197550	NW_004516338.1	scaffold1020	197550	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87961_A_209062	NW_004516338.1	scaffold1020	209062	GG	AA	AA	INTERGENIC			
SNP_87962_A_226374	NW_004516338.1	scaffold1020	226374	AA	GG	GG	INTERGENIC			
SNP_87964_A_241822	NW_004516338.1	scaffold1020	241822	AA	TT	TT	INTERGENIC			
SNP_87965_A_246890	NW_004516338.1	scaffold1020	246890	CC	TT	TT	INTERGENIC			
SNP_87966_A_247280	NW_004516338.1	scaffold1020	247280	GG	AA	AA	INTERGENIC			
SNP_87967_A_273260	NW_004516338.1	scaffold1020	273260	TT	AA	AA	INTERGENIC			
SNP_87968_A_275614	NW_004516338.1	scaffold1020	275614	CC	GG	GG	INTERGENIC			
SNP_87969_A_290193	NW_004516338.1	scaffold1020	290193	AA	GG	GG	INTERGENIC			
SNP_87970_A_298265	NW_004516338.1	scaffold1020	298265	AA	CC	CC	INTERGENIC			
SNP_87971_A_318656	NW_004516338.1	scaffold1020	318656	CC	TT	TT	INTERGENIC			
SNP_87972_A_325848	NW_004516338.1	scaffold1020	325848	AA	GG	GG	INTERGENIC			
SNP_87973_A_325853	NW_004516338.1	scaffold1020	325853	TT	CC	CC	INTERGENIC			
SNP_87974_A_325866	NW_004516338.1	scaffold1020	325866	AA	TT	TT	INTERGENIC			
SNP_87975_A_325970	NW_004516338.1	scaffold1020	325970	TT	GG	GG	INTERGENIC			
SNP_87976_A_325976	NW_004516338.1	scaffold1020	325976	CC	TT	TT	INTERGENIC			
SNP_87977_A_326224	NW_004516338.1	scaffold1020	326224	AA	GG	GG	INTERGENIC			
SNP_87978_A_19815	NW_004516343.1	scaffold1027	19815	TT	CC	CC	INTERGENIC			
SNP_87979_A_19836	NW_004516343.1	scaffold1027	19836	CC	GG	GG	INTERGENIC			
SNP_87980_A_19846	NW_004516343.1	scaffold1027	19846	AA	TT	TT	INTERGENIC			
SNP_87981_A_46492	NW_004516343.1	scaffold1027	46492	CC	TT	TT	INTERGENIC			
SNP_87982_A_61296	NW_004516343.1	scaffold1027	61296	AA	GG	GG	INTERGENIC			
SNP_87983_A_77928	NW_004516343.1	scaffold1027	77928	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_87984_A_77974	NW_004516343.1	scaffold1027	77974	TT	GG	GG	INTERGENIC			
SNP_87985_A_99230	NW_004516343.1	scaffold1027	99230	GG	AA	AA	INTERGENIC			
SNP_87986_A_109895	NW_004516343.1	scaffold1027	109895	AA	GG	GG	INTERGENIC			
SNP_87987_A_148413	NW_004516343.1	scaffold1027	148413	CC	TT	TT	INTERGENIC			
SNP_87988_A_148470	NW_004516343.1	scaffold1027	148470	GG	AA	AA	INTERGENIC			
SNP_87989_A_148527	NW_004516343.1	scaffold1027	148527	CC	TT	TT	INTERGENIC			
SNP_87990_A_148551	NW_004516343.1	scaffold1027	148551	GG	AA	AA	INTERGENIC			
SNP_87991_A_148590	NW_004516343.1	scaffold1027	148590	CC	TT	TT	INTERGENIC			
SNP_87992_A_148700	NW_004516343.1	scaffold1027	148700	TT	CC	CC	INTERGENIC			
SNP_87993_A_148728	NW_004516343.1	scaffold1027	148728	TT	CC	CC	INTERGENIC			
SNP_87994_A_148744	NW_004516343.1	scaffold1027	148744	AA	GG	GG	INTERGENIC			
SNP_87995_A_148781	NW_004516343.1	scaffold1027	148781	GG	AA	AA	INTERGENIC			
SNP_87996_A_148787	NW_004516343.1	scaffold1027	148787	TT	CC	CC	INTERGENIC			
SNP_87997_A_148790	NW_004516343.1	scaffold1027	148790	TT	CC	CC	INTERGENIC			
SNP_87998_A_148791	NW_004516343.1	scaffold1027	148791	AA	CC	CC	INTERGENIC			
SNP_87999_A_148889	NW_004516343.1	scaffold1027	148889	GG	AA	AA	INTERGENIC			
SNP_88000_A_148934	NW_004516343.1	scaffold1027	148934	AA	GG	GG	INTERGENIC			
SNP_88001_A_148958	NW_004516343.1	scaffold1027	148958	AA	GG	GG	INTERGENIC			
SNP_88002_A_148970	NW_004516343.1	scaffold1027	148970	TT	CC	CC	INTERGENIC			
SNP_88003_A_149006	NW_004516343.1	scaffold1027	149006	GG	AA	AA	INTERGENIC			
SNP_88004_A_149021	NW_004516343.1	scaffold1027	149021	CC	TT	TT	INTERGENIC			
SNP_88005_A_149045	NW_004516343.1	scaffold1027	149045	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88006_A_149054	NW_004516343.1	scaffold1027	149054	TT	CC	CC	INTERGENIC			
SNP_88008_A_191355	NW_004516343.1	scaffold1027	191355	AA	GG	GG	INTERGENIC			
SNP_88009_A_191377	NW_004516343.1	scaffold1027	191377	TT	CC	CC	INTERGENIC			
SNP_88010_A_193129	NW_004516343.1	scaffold1027	193129	TT	CC	CC	INTERGENIC			
SNP_88013_A_204254	NW_004516343.1	scaffold1027	204254	CC	AA	AA	INTERGENIC			
SNP_88014_A_204275	NW_004516343.1	scaffold1027	204275	CC	TT	TT	INTERGENIC			
SNP_88015_A_204284	NW_004516343.1	scaffold1027	204284	CC	TT	TT	INTERGENIC			
SNP_88016_A_204321	NW_004516343.1	scaffold1027	204321	AA	GG	GG	INTERGENIC			
SNP_88017_A_204406	NW_004516343.1	scaffold1027	204406	CC	AA	AA	INTERGENIC			
SNP_88018_A_204464	NW_004516343.1	scaffold1027	204464	AA	GG	GG	INTERGENIC			
SNP_88019_A_210810	NW_004516343.1	scaffold1027	210810	CC	TT	TT	INTERGENIC			
SNP_88020_A_210981	NW_004516343.1	scaffold1027	210981	TT	GG	GG	INTERGENIC			
SNP_88021_A_210990	NW_004516343.1	scaffold1027	210990	GG	AA	AA	INTERGENIC			
SNP_88022_A_210991	NW_004516343.1	scaffold1027	210991	AA	TT	TT	INTERGENIC			
SNP_88023_A_210993	NW_004516343.1	scaffold1027	210993	TT	CC	CC	INTERGENIC			
SNP_88024_A_212761	NW_004516343.1	scaffold1027	212761	TT	CC	CC	INTERGENIC			
SNP_88025_A_226676	NW_004516343.1	scaffold1027	226676	TT	GG	GG	INTERGENIC			
SNP_88026_A_228953	NW_004516343.1	scaffold1027	228953	AA	GG	GG	INTERGENIC			
SNP_88027_A_113	NW_004516344.1	scaffold1029	113	GG	AA	AA	INTERGENIC			
SNP_88028_A_171	NW_004516344.1	scaffold1029	171	TT	CC	CC	INTERGENIC			
SNP_88029_A_182	NW_004516344.1	scaffold1029	182	AA	GG	GG	INTERGENIC			
SNP_88030_A_15167	NW_004516344.1	scaffold1029	15167	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88031_A_18575	NW_004516344.1	scaffold1029	18575	GG	AA	AA	INTERGENIC			
SNP_88032_A_57495	NW_004516344.1	scaffold1029	57495	AA	GG	GG	INTERGENIC			
SNP_88033_A_62021	NW_004516344.1	scaffold1029	62021	AA	GG	GG	INTERGENIC			
SNP_88034_A_110264	NW_004516344.1	scaffold1029	110264	TT	CC	CC	INTERGENIC			
SNP_88035_A_110318	NW_004516344.1	scaffold1029	110318	GG	TT	TT	INTERGENIC			
SNP_88036_A_110375	NW_004516344.1	scaffold1029	110375	AA	GG	GG	INTERGENIC			
SNP_88037_A_110433	NW_004516344.1	scaffold1029	110433	AA	GG	GG	INTERGENIC			
SNP_88038_A_110631	NW_004516344.1	scaffold1029	110631	CC	TT	TT	INTERGENIC			
SNP_88039_A_110707	NW_004516344.1	scaffold1029	110707	AA	GG	GG	INTERGENIC			
SNP_88040_A_114168	NW_004516344.1	scaffold1029	114168	GG	AA	AA	INTERGENIC			
SNP_88041_A_114380	NW_004516344.1	scaffold1029	114380	AA	GG	GG	INTERGENIC			
SNP_88042_A_130726	NW_004516344.1	scaffold1029	130726	AA	GG	GG	INTERGENIC			
SNP_88043_A_149860	NW_004516344.1	scaffold1029	149860	CC	TT	TT	INTERGENIC			
SNP_88044_A_150162	NW_004516344.1	scaffold1029	150162	AA	GG	GG	INTERGENIC			
SNP_88045_A_17240	NW_004516345.1	scaffold1032	17240	AA	GG	GG	INTERGENIC			
SNP_88046_A_17242	NW_004516345.1	scaffold1032	17242	TT	GG	GG	INTERGENIC			
SNP_88047_A_25355	NW_004516345.1	scaffold1032	25355	TT	AA	AA	INTERGENIC			
SNP_88048_A_25356	NW_004516345.1	scaffold1032	25356	TT	CC	CC	INTERGENIC			
SNP_88049_A_1209	NW_004516347.1	scaffold1034	1209	AA	TT	TT	INTERGENIC			
SNP_88050_A_1243	NW_004516347.1	scaffold1034	1243	TT	CC	CC	INTERGENIC			
SNP_88051_A_1244	NW_004516347.1	scaffold1034	1244	CC	TT	TT	INTERGENIC			
SNP_88052_A_1245	NW_004516347.1	scaffold1034	1245	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88053_A_1266	NW_004516347.1	scaffold1034	1266	GG	AA	AA	INTERGENIC			
SNP_88054_A_3295	NW_004516347.1	scaffold1034	3295	GG	AA	AA	INTERGENIC			
SNP_88055_A_7397	NW_004516347.1	scaffold1034	7397	CC	AA	AA	INTERGENIC			
SNP_88056_A_8941	NW_004516347.1	scaffold1034	8941	CC	TT	TT	INTERGENIC			
SNP_88057_A_9192	NW_004516347.1	scaffold1034	9192	GG	AA	AA	INTERGENIC			
SNP_88058_A_9204	NW_004516347.1	scaffold1034	9204	GG	AA	AA	INTERGENIC			
SNP_88059_A_9291	NW_004516347.1	scaffold1034	9291	CC	TT	TT	INTERGENIC			
SNP_88060_A_13977	NW_004516347.1	scaffold1034	13977	CC	TT	TT	INTERGENIC			
SNP_88061_A_24785	NW_004516347.1	scaffold1034	24785	GG	AA	AA	INTERGENIC			
SNP_88062_A_29606	NW_004516347.1	scaffold1034	29606	AA	CC	CC	INTERGENIC			
SNP_88063_A_35119	NW_004516347.1	scaffold1034	35119	AA	GG	GG	INTERGENIC			
SNP_88064_A_37561	NW_004516347.1	scaffold1034	37561	AA	GG	GG	INTERGENIC			
SNP_88065_A_39469	NW_004516347.1	scaffold1034	39469	TT	AA	AA	INTERGENIC			
SNP_88066_A_39755	NW_004516347.1	scaffold1034	39755	TT	CC	CC	INTERGENIC			
SNP_88067_A_39785	NW_004516347.1	scaffold1034	39785	TT	GG	GG	INTERGENIC			
SNP_88068_A_40918	NW_004516347.1	scaffold1034	40918	AA	GG	GG	INTERGENIC			
SNP_88069_A_46722	NW_004516347.1	scaffold1034	46722	TT	CC	CC	INTERGENIC			
SNP_88070_A_51736	NW_004516347.1	scaffold1034	51736	TT	CC	CC	INTERGENIC			
SNP_88071_A_55181	NW_004516347.1	scaffold1034	55181	GG	AA	AA	INTERGENIC			
SNP_88072_A_60710	NW_004516347.1	scaffold1034	60710	AA	GG	GG	INTERGENIC			
SNP_88073_A_60732	NW_004516347.1	scaffold1034	60732	AA	CC	CC	INTERGENIC			
SNP_88074_A_66497	NW_004516347.1	scaffold1034	66497	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88075_A_74000	NW_004516347.1	scaffold1034	74000	AA	CC	CC	INTERGENIC			
SNP_88076_A_74029	NW_004516347.1	scaffold1034	74029	TT	GG	GG	INTERGENIC			
SNP_88077_A_74065	NW_004516347.1	scaffold1034	74065	GG	AA	AA	INTERGENIC			
SNP_88078_A_74106	NW_004516347.1	scaffold1034	74106	TT	AA	AA	INTERGENIC			
SNP_88079_A_76770	NW_004516347.1	scaffold1034	76770	TT	AA	AA	INTERGENIC			
SNP_88080_A_81649	NW_004516347.1	scaffold1034	81649	GG	AA	AA	INTERGENIC			
SNP_88081_A_821	NW_004516348.1	scaffold1035	821	CC	TT	TT	INTERGENIC			
SNP_88082_A_947	NW_004516348.1	scaffold1035	947	TT	GG	GG	INTERGENIC			
SNP_88083_A_1158	NW_004516348.1	scaffold1035	1158	GG	AA	AA	INTERGENIC			
SNP_88084_A_1586	NW_004516348.1	scaffold1035	1586	GG	CC	CC	INTERGENIC			
SNP_88085_A_1846	NW_004516348.1	scaffold1035	1846	TT	GG	GG	INTERGENIC			
SNP_88086_A_9995	NW_004516349.1	scaffold1036	9995	CC	AA	AA	INTERGENIC			
SNP_88087_A_10361	NW_004516349.1	scaffold1036	10361	GG	CC	CC	INTERGENIC			
SNP_88088_A_10713	NW_004516349.1	scaffold1036	10713	AA	CC	CC	INTERGENIC			
SNP_88089_A_24702	NW_004516349.1	scaffold1036	24702	GG	TT	TT	INTERGENIC			
SNP_88090_A_27550	NW_004516349.1	scaffold1036	27550	CC	GG	GG	INTERGENIC			
SNP_88091_A_33484	NW_004516349.1	scaffold1036	33484	TT	AA	AA	INTERGENIC			
SNP_88092_A_39485	NW_004516349.1	scaffold1036	39485	CC	AA	AA	INTERGENIC			
SNP_88093_A_43779	NW_004516349.1	scaffold1036	43779	AA	CC	CC	INTERGENIC			
SNP_88094_A_45715	NW_004516349.1	scaffold1036	45715	CC	AA	AA	INTERGENIC			
SNP_88095_A_46011	NW_004516349.1	scaffold1036	46011	CC	GG	GG	INTERGENIC			
SNP_88096_A_46079	NW_004516349.1	scaffold1036	46079	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88097_A_46111	NW_004516349.1	scaffold1036	46111	AA	GG	GG	INTERGENIC			
SNP_88098_A_46114	NW_004516349.1	scaffold1036	46114	TT	CC	CC	INTERGENIC			
SNP_88099_A_46160	NW_004516349.1	scaffold1036	46160	GG	TT	TT	INTERGENIC			
SNP_88100_A_46238	NW_004516349.1	scaffold1036	46238	AA	GG	GG	INTERGENIC			
SNP_88101_A_46329	NW_004516349.1	scaffold1036	46329	TT	GG	GG	INTERGENIC			
SNP_88102_A_60496	NW_004516349.1	scaffold1036	60496	TT	AA	AA	INTERGENIC			
SNP_88103_A_60515	NW_004516349.1	scaffold1036	60515	AA	TT	TT	INTERGENIC			
SNP_88104_A_60574	NW_004516349.1	scaffold1036	60574	TT	AA	AA	INTERGENIC			
SNP_88105_A_61174	NW_004516349.1	scaffold1036	61174	TT	GG	GG	INTERGENIC			
SNP_88106_A_75472	NW_004516349.1	scaffold1036	75472	CC	TT	TT	INTERGENIC			
SNP_88107_A_77470	NW_004516349.1	scaffold1036	77470	CC	TT	TT	INTERGENIC			
SNP_88108_A_77493	NW_004516349.1	scaffold1036	77493	AA	GG	GG	INTERGENIC			
SNP_88109_A_77547	NW_004516349.1	scaffold1036	77547	CC	TT	TT	INTERGENIC			
SNP_88110_A_77595	NW_004516349.1	scaffold1036	77595	TT	AA	AA	INTERGENIC			
SNP_88111_A_85263	NW_004516349.1	scaffold1036	85263	AA	GG	GG	INTERGENIC			
SNP_88112_A_86778	NW_004516349.1	scaffold1036	86778	AA	CC	CC	INTERGENIC			
SNP_88113_A_87142	NW_004516349.1	scaffold1036	87142	CC	GG	GG	INTERGENIC			
SNP_88114_A_87595	NW_004516349.1	scaffold1036	87595	TT	AA	AA	INTERGENIC			
SNP_88115_A_89086	NW_004516349.1	scaffold1036	89086	TT	CC	CC	INTERGENIC			
SNP_88116_A_89097	NW_004516349.1	scaffold1036	89097	GG	CC	CC	INTERGENIC			
SNP_88117_A_94063	NW_004516349.1	scaffold1036	94063	AA	TT	TT	INTERGENIC			
SNP_88118_A_94067	NW_004516349.1	scaffold1036	94067	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88119_A_94291	NW_004516349.1	scaffold1036	94291	AA	CC	CC	INTERGENIC			
SNP_88120_A_98365	NW_004516349.1	scaffold1036	98365	TT	AA	AA	INTERGENIC			
SNP_88121_A_99716	NW_004516349.1	scaffold1036	99716	TT	CC	CC	INTERGENIC			
SNP_88122_A_99770	NW_004516349.1	scaffold1036	99770	GG	TT	TT	INTERGENIC			
SNP_88123_A_99786	NW_004516349.1	scaffold1036	99786	TT	CC	CC	INTERGENIC			
SNP_88124_A_100067	NW_004516349.1	scaffold1036	100067	AA	TT	TT	INTERGENIC			
SNP_88125_A_100170	NW_004516349.1	scaffold1036	100170	AA	CC	CC	INTERGENIC			
SNP_88126_A_102283	NW_004516349.1	scaffold1036	102283	GG	AA	AA	INTERGENIC			
SNP_88127_A_102609	NW_004516349.1	scaffold1036	102609	TT	AA	AA	INTERGENIC			
SNP_88128_A_102655	NW_004516349.1	scaffold1036	102655	GG	AA	AA	INTERGENIC			
SNP_88129_A_102786	NW_004516349.1	scaffold1036	102786	AA	TT	TT	INTERGENIC			
SNP_88130_A_102956	NW_004516349.1	scaffold1036	102956	TT	GG	GG	INTERGENIC			
SNP_88131_A_102961	NW_004516349.1	scaffold1036	102961	AA	GG	GG	INTERGENIC			
SNP_88132_A_103024	NW_004516349.1	scaffold1036	103024	TT	GG	GG	INTERGENIC			
SNP_88133_A_103080	NW_004516349.1	scaffold1036	103080	TT	CC	CC	INTERGENIC			
SNP_88134_A_103139	NW_004516349.1	scaffold1036	103139	GG	TT	TT	INTERGENIC			
SNP_88135_A_127023	NW_004516349.1	scaffold1036	127023	GG	CC	CC	INTERGENIC			
SNP_88136_A_139687	NW_004516349.1	scaffold1036	139687	GG	TT	TT	INTERGENIC			
SNP_88137_A_157238	NW_004516349.1	scaffold1036	157238	GG	AA	AA	INTERGENIC			
SNP_88138_A_169539	NW_004516349.1	scaffold1036	169539	CC	AA	AA	INTERGENIC			
SNP_88139_A_169653	NW_004516349.1	scaffold1036	169653	TT	AA	AA	INTERGENIC			
SNP_88140_A_170438	NW_004516349.1	scaffold1036	170438	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88141_A_187881	NW_004516349.1	scaffold1036	187881	TT	GG	GG	INTERGENIC			
SNP_88142_A_204756	NW_004516349.1	scaffold1036	204756	GG	AA	AA	INTERGENIC			
SNP_88143_A_204973	NW_004516349.1	scaffold1036	204973	AA	TT	TT	INTERGENIC			
SNP_88145_A_205080	NW_004516349.1	scaffold1036	205080	TT	CC	CC	INTERGENIC			
SNP_88146_A_225292	NW_004516349.1	scaffold1036	225292	GG	TT	TT	INTERGENIC			
SNP_88147_A_225368	NW_004516349.1	scaffold1036	225368	AA	CC	CC	INTERGENIC			
SNP_88148_A_225621	NW_004516349.1	scaffold1036	225621	TT	CC	CC	INTERGENIC			
SNP_88149_A_233260	NW_004516349.1	scaffold1036	233260	CC	AA	AA	INTERGENIC			
SNP_88150_A_233272	NW_004516349.1	scaffold1036	233272	TT	AA	AA	INTERGENIC			
SNP_88151_A_236063	NW_004516349.1	scaffold1036	236063	AA	TT	TT	INTERGENIC			
SNP_88152_A_236437	NW_004516349.1	scaffold1036	236437	TT	GG	GG	INTERGENIC			
SNP_88153_A_236704	NW_004516349.1	scaffold1036	236704	TT	AA	AA	INTERGENIC			
SNP_88154_A_236705	NW_004516349.1	scaffold1036	236705	TT	CC	CC	INTERGENIC			
SNP_88155_A_120	NW_004516350.1	scaffold1038	120	AA	GG	GG	INTERGENIC			
SNP_88156_A_273	NW_004516350.1	scaffold1038	273	TT	GG	GG	INTERGENIC			
SNP_88157_A_345	NW_004516350.1	scaffold1038	345	TT	CC	CC	INTERGENIC			
SNP_88158_A_387	NW_004516350.1	scaffold1038	387	AA	CC	CC	INTERGENIC			
SNP_88159_A_554	NW_004516350.1	scaffold1038	554	AA	GG	GG	INTERGENIC			
SNP_88160_A_589	NW_004516350.1	scaffold1038	589	TT	AA	AA	INTERGENIC			
SNP_88161_A_650	NW_004516350.1	scaffold1038	650	AA	TT	TT	INTERGENIC			
SNP_88163_A_1346	NW_004516350.1	scaffold1038	1346	AA	GG	GG	INTERGENIC			
SNP_88164_A_1634	NW_004516350.1	scaffold1038	1634	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88165_A_1664	NW_004516350.1	scaffold1038	1664	TT	GG	GG	INTERGENIC			
SNP_88166_A_1683	NW_004516350.1	scaffold1038	1683	TT	CC	CC	INTERGENIC			
SNP_88167_A_1699	NW_004516350.1	scaffold1038	1699	CC	TT	TT	INTERGENIC			
SNP_88168_A_2017	NW_004516350.1	scaffold1038	2017	AA	TT	TT	INTERGENIC			
SNP_88169_A_2025	NW_004516350.1	scaffold1038	2025	TT	AA	AA	INTERGENIC			
SNP_88170_A_2134	NW_004516350.1	scaffold1038	2134	CC	AA	AA	INTERGENIC			
SNP_88171_A_2227	NW_004516350.1	scaffold1038	2227	AA	TT	TT	INTERGENIC			
SNP_88172_A_2566	NW_004516350.1	scaffold1038	2566	CC	TT	TT	INTERGENIC			
SNP_88173_A_2772	NW_004516350.1	scaffold1038	2772	GG	AA	AA	INTERGENIC			
SNP_88174_A_2997	NW_004516351.1	scaffold1039	2997	AA	GG	GG	INTERGENIC			
SNP_88175_A_3052	NW_004516351.1	scaffold1039	3052	CC	TT	TT	INTERGENIC			
SNP_88177_A_3282	NW_004516351.1	scaffold1039	3282	GG	AA	AA	INTERGENIC			
SNP_88178_A_3804	NW_004516351.1	scaffold1039	3804	CC	TT	TT	INTERGENIC			
SNP_88179_A_3939	NW_004516351.1	scaffold1039	3939	AA	GG	GG	INTERGENIC			
SNP_88180_A_4084	NW_004516351.1	scaffold1039	4084	AA	GG	GG	INTERGENIC			
SNP_88181_A_4245	NW_004516351.1	scaffold1039	4245	TT	GG	GG	INTERGENIC			
SNP_88182_A_4257	NW_004516351.1	scaffold1039	4257	TT	CC	CC	INTERGENIC			
SNP_88183_A_4293	NW_004516351.1	scaffold1039	4293	AA	TT	TT	INTERGENIC			
SNP_88184_A_4336	NW_004516351.1	scaffold1039	4336	TT	CC	CC	INTERGENIC			
SNP_88185_A_4339	NW_004516351.1	scaffold1039	4339	AA	TT	TT	INTERGENIC			
SNP_88186_A_4374	NW_004516351.1	scaffold1039	4374	CC	TT	TT	INTERGENIC			
SNP_88187_A_4498	NW_004516351.1	scaffold1039	4498	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88188_A_4760	NW_004516351.1	scaffold1039	4760	TT	CC	CC	INTERGENIC		
SNP_88189_A_10391	NW_004516351.1	scaffold1039	10391	TT	CC	CC	INTERGENIC		
SNP_88190_A_10428	NW_004516351.1	scaffold1039	10428	AA	GG	GG	INTERGENIC		
SNP_88191_A_10447	NW_004516351.1	scaffold1039	10447	GG	AA	AA	INTERGENIC		
SNP_88192_A_10519	NW_004516351.1	scaffold1039	10519	TT	CC	CC	INTERGENIC		
SNP_88193_A_12795	NW_004516351.1	scaffold1039	12795	CC	AA	AA	INTERGENIC		
SNP_88194_A_31904	NW_004516351.1	scaffold1039	31904	AA	GG	GG	INTERGENIC		
SNP_88195_A_32145	NW_004516351.1	scaffold1039	32145	GG	AA	AA	INTERGENIC		
SNP_88196_A_32243	NW_004516351.1	scaffold1039	32243	GG	AA	AA	INTERGENIC		
SNP_88197_A_32298	NW_004516351.1	scaffold1039	32298	AA	CC	CC	INTERGENIC		
SNP_88198_A_32408	NW_004516351.1	scaffold1039	32408	TT	CC	CC	INTERGENIC		
SNP_88199_A_32546	NW_004516351.1	scaffold1039	32546	CC	GG	GG	INTERGENIC		
SNP_88201_A_40132	NW_004516351.1	scaffold1039	40132	CC	TT	TT	INTERGENIC		
SNP_88202_A_40163	NW_004516351.1	scaffold1039	40163	AA	GG	GG	INTERGENIC		
SNP_88203_A_40168	NW_004516351.1	scaffold1039	40168	AA	GG	GG	INTERGENIC		
SNP_88204_A_40208	NW_004516351.1	scaffold1039	40208	AA	GG	GG	INTERGENIC		
SNP_88205_A_40288	NW_004516351.1	scaffold1039	40288	CC	TT	TT	INTERGENIC		
SNP_88206_A_40309	NW_004516351.1	scaffold1039	40309	AA	GG	GG	INTERGENIC		
SNP_88207_A_40425	NW_004516351.1	scaffold1039	40425	AA	GG	GG	INTERGENIC		
SNP_88208_A_40497	NW_004516351.1	scaffold1039	40497	GG	AA	AA	INTERGENIC		
SNP_88209_A_40917	NW_004516351.1	scaffold1039	40917	CC	TT	TT	INTERGENIC		
SNP_88210_A_40920	NW_004516351.1	scaffold1039	40920	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88211_A_41124	NW_004516351.1	scaffold1039	41124	CC	AA	AA	INTERGENIC			
SNP_88212_A_41262	NW_004516351.1	scaffold1039	41262	TT	CC	CC	INTERGENIC			
SNP_88213_A_41392	NW_004516351.1	scaffold1039	41392	AA	GG	GG	INTERGENIC			
SNP_88214_A_41396	NW_004516351.1	scaffold1039	41396	GG	AA	AA	INTERGENIC			
SNP_88215_A_41476	NW_004516351.1	scaffold1039	41476	CC	TT	TT	INTERGENIC			
SNP_88217_A_42146	NW_004516351.1	scaffold1039	42146	TT	CC	CC	INTERGENIC			
SNP_88218_A_43699	NW_004516351.1	scaffold1039	43699	GG	AA	AA	INTERGENIC			
SNP_88219_A_43704	NW_004516351.1	scaffold1039	43704	AA	TT	TT	INTERGENIC			
SNP_88220_A_43740	NW_004516351.1	scaffold1039	43740	TT	GG	GG	INTERGENIC			
SNP_88221_A_43900	NW_004516351.1	scaffold1039	43900	CC	TT	TT	INTERGENIC			
SNP_88222_A_44082	NW_004516351.1	scaffold1039	44082	TT	CC	CC	INTERGENIC			
SNP_88223_A_44148	NW_004516351.1	scaffold1039	44148	TT	CC	CC	INTERGENIC			
SNP_88224_A_44730	NW_004516351.1	scaffold1039	44730	GG	AA	AA	INTERGENIC			
SNP_88225_A_44736	NW_004516351.1	scaffold1039	44736	TT	CC	CC	INTERGENIC			
SNP_88226_A_44824	NW_004516351.1	scaffold1039	44824	CC	TT	TT	INTERGENIC			
SNP_88227_A_44916	NW_004516351.1	scaffold1039	44916	AA	TT	TT	INTERGENIC			
SNP_88228_A_44950	NW_004516351.1	scaffold1039	44950	TT	CC	CC	INTERGENIC			
SNP_88229_A_45027	NW_004516351.1	scaffold1039	45027	GG	AA	AA	INTERGENIC			
SNP_88230_A_45256	NW_004516351.1	scaffold1039	45256	TT	GG	GG	INTERGENIC			
SNP_88231_A_45260	NW_004516351.1	scaffold1039	45260	AA	TT	TT	INTERGENIC			
SNP_88232_A_45344	NW_004516351.1	scaffold1039	45344	TT	AA	AA	INTERGENIC			
SNP_88233_A_45357	NW_004516351.1	scaffold1039	45357	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88234_A_45501	NW_004516351.1	scaffold1039	45501	AA	GG	GG	INTERGENIC			
SNP_88235_A_45545	NW_004516351.1	scaffold1039	45545	CC	TT	TT	INTERGENIC			
SNP_88236_A_45604	NW_004516351.1	scaffold1039	45604	CC	TT	TT	INTERGENIC			
SNP_88237_A_45966	NW_004516351.1	scaffold1039	45966	TT	GG	GG	INTERGENIC			
SNP_88238_A_46003	NW_004516351.1	scaffold1039	46003	AA	TT	TT	INTERGENIC			
SNP_88239_A_46028	NW_004516351.1	scaffold1039	46028	TT	CC	CC	INTERGENIC			
SNP_88240_A_46104	NW_004516351.1	scaffold1039	46104	GG	AA	AA	INTERGENIC			
SNP_88241_A_46147	NW_004516351.1	scaffold1039	46147	AA	TT	TT	INTERGENIC			
SNP_88242_A_46239	NW_004516351.1	scaffold1039	46239	CC	GG	GG	INTERGENIC			
SNP_88243_A_46301	NW_004516351.1	scaffold1039	46301	TT	AA	AA	INTERGENIC			
SNP_88244_A_46306	NW_004516351.1	scaffold1039	46306	AA	TT	TT	INTERGENIC			
SNP_88245_A_47415	NW_004516351.1	scaffold1039	47415	GG	AA	AA	INTERGENIC			
SNP_88246_A_47418	NW_004516351.1	scaffold1039	47418	AA	GG	GG	INTERGENIC			
SNP_88247_A_47429	NW_004516351.1	scaffold1039	47429	CC	GG	GG	INTERGENIC			
SNP_88248_A_47488	NW_004516351.1	scaffold1039	47488	TT	CC	CC	INTERGENIC			
SNP_88249_A_47715	NW_004516351.1	scaffold1039	47715	GG	AA	AA	INTERGENIC			
SNP_88250_A_47724	NW_004516351.1	scaffold1039	47724	AA	GG	GG	INTERGENIC			
SNP_88251_A_47762	NW_004516351.1	scaffold1039	47762	GG	AA	AA	INTERGENIC			
SNP_88252_A_47824	NW_004516351.1	scaffold1039	47824	CC	TT	TT	INTERGENIC			
SNP_88253_A_47860	NW_004516351.1	scaffold1039	47860	CC	TT	TT	INTERGENIC			
SNP_88254_A_47947	NW_004516351.1	scaffold1039	47947	AA	GG	GG	INTERGENIC			
SNP_88255_A_47973	NW_004516351.1	scaffold1039	47973	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88257_A_48030	NW_004516351.1	scaffold1039	48030	CC	TT	TT	INTERGENIC			
SNP_88258_A_48036	NW_004516351.1	scaffold1039	48036	CC	TT	TT	INTERGENIC			
SNP_88259_A_48039	NW_004516351.1	scaffold1039	48039	TT	CC	CC	INTERGENIC			
SNP_88260_A_48046	NW_004516351.1	scaffold1039	48046	CC	TT	TT	INTERGENIC			
SNP_88261_A_48056	NW_004516351.1	scaffold1039	48056	GG	TT	TT	INTERGENIC			
SNP_88262_A_48057	NW_004516351.1	scaffold1039	48057	AA	GG	GG	INTERGENIC			
SNP_88263_A_48073	NW_004516351.1	scaffold1039	48073	GG	AA	AA	INTERGENIC			
SNP_88264_A_48081	NW_004516351.1	scaffold1039	48081	TT	GG	GG	INTERGENIC			
SNP_88265_A_48114	NW_004516351.1	scaffold1039	48114	TT	GG	GG	INTERGENIC			
SNP_88266_A_48153	NW_004516351.1	scaffold1039	48153	GG	AA	AA	INTERGENIC			
SNP_88267_A_48159	NW_004516351.1	scaffold1039	48159	CC	AA	AA	INTERGENIC			
SNP_88268_A_48206	NW_004516351.1	scaffold1039	48206	TT	AA	AA	INTERGENIC			
SNP_88269_A_48222	NW_004516351.1	scaffold1039	48222	GG	AA	AA	INTERGENIC			
SNP_88270_A_48249	NW_004516351.1	scaffold1039	48249	CC	TT	TT	INTERGENIC			
SNP_88271_A_48355	NW_004516351.1	scaffold1039	48355	TT	CC	CC	INTERGENIC			
SNP_88272_A_48382	NW_004516351.1	scaffold1039	48382	AA	CC	CC	INTERGENIC			
SNP_88273_A_48404	NW_004516351.1	scaffold1039	48404	GG	AA	AA	INTERGENIC			
SNP_88274_A_48507	NW_004516351.1	scaffold1039	48507	AA	TT	TT	INTERGENIC			
SNP_88275_A_48579	NW_004516351.1	scaffold1039	48579	CC	AA	AA	INTERGENIC			
SNP_88277_A_48985	NW_004516351.1	scaffold1039	48985	AA	GG	GG	INTERGENIC			
SNP_88278_A_48993	NW_004516351.1	scaffold1039	48993	TT	GG	GG	INTERGENIC			
SNP_88279_A_49165	NW_004516351.1	scaffold1039	49165	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88280_A_49177	NW_004516351.1	scaffold1039	49177	AA	CC	CC	INTERGENIC			
SNP_88281_A_49220	NW_004516351.1	scaffold1039	49220	GG	TT	TT	INTERGENIC			
SNP_88282_A_49293	NW_004516351.1	scaffold1039	49293	TT	CC	CC	INTERGENIC			
SNP_88283_A_49724	NW_004516351.1	scaffold1039	49724	TT	CC	CC	INTERGENIC			
SNP_88284_A_49736	NW_004516351.1	scaffold1039	49736	CC	GG	GG	INTERGENIC			
SNP_88285_A_49807	NW_004516351.1	scaffold1039	49807	AA	CC	CC	INTERGENIC			
SNP_88286_A_51033	NW_004516351.1	scaffold1039	51033	CC	TT	TT	INTERGENIC			
SNP_88287_A_51161	NW_004516351.1	scaffold1039	51161	TT	AA	AA	INTERGENIC			
SNP_88288_A_51248	NW_004516351.1	scaffold1039	51248	TT	CC	CC	INTERGENIC			
SNP_88289_A_51264	NW_004516351.1	scaffold1039	51264	CC	TT	TT	INTERGENIC			
SNP_88290_A_51304	NW_004516351.1	scaffold1039	51304	GG	AA	AA	INTERGENIC			
SNP_88291_A_54156	NW_004516351.1	scaffold1039	54156	AA	GG	GG	INTERGENIC			
SNP_88292_A_54285	NW_004516351.1	scaffold1039	54285	AA	GG	GG	INTERGENIC			
SNP_88293_A_54354	NW_004516351.1	scaffold1039	54354	GG	AA	AA	INTERGENIC			
SNP_88294_A_54380	NW_004516351.1	scaffold1039	54380	AA	GG	GG	INTERGENIC			
SNP_88295_A_54395	NW_004516351.1	scaffold1039	54395	AA	GG	GG	INTERGENIC			
SNP_88296_A_54401	NW_004516351.1	scaffold1039	54401	TT	CC	CC	INTERGENIC			
SNP_88297_A_54440	NW_004516351.1	scaffold1039	54440	CC	TT	TT	INTERGENIC			
SNP_88298_A_54516	NW_004516351.1	scaffold1039	54516	AA	GG	GG	INTERGENIC			
SNP_88299_A_54539	NW_004516351.1	scaffold1039	54539	GG	AA	AA	INTERGENIC			
SNP_88300_A_54630	NW_004516351.1	scaffold1039	54630	GG	TT	TT	INTERGENIC			
SNP_88301_A_54637	NW_004516351.1	scaffold1039	54637	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88302_A_54714	NW_004516351.1	scaffold1039	54714	GG	AA	AA	INTERGENIC			
SNP_88303_A_54887	NW_004516351.1	scaffold1039	54887	TT	CC	CC	INTERGENIC			
SNP_88304_A_54913	NW_004516351.1	scaffold1039	54913	CC	TT	TT	INTERGENIC			
SNP_88305_A_54953	NW_004516351.1	scaffold1039	54953	TT	GG	GG	INTERGENIC			
SNP_88306_A_55005	NW_004516351.1	scaffold1039	55005	CC	GG	GG	INTERGENIC			
SNP_88307_A_55270	NW_004516351.1	scaffold1039	55270	TT	CC	CC	INTERGENIC			
SNP_88308_A_55314	NW_004516351.1	scaffold1039	55314	TT	GG	GG	INTERGENIC			
SNP_88309_A_55358	NW_004516351.1	scaffold1039	55358	CC	TT	TT	INTERGENIC			
SNP_88310_A_57592	NW_004516351.1	scaffold1039	57592	GG	AA	AA	INTERGENIC			
SNP_88311_A_57596	NW_004516351.1	scaffold1039	57596	GG	AA	AA	INTERGENIC			
SNP_88312_A_57621	NW_004516351.1	scaffold1039	57621	TT	CC	CC	INTERGENIC			
SNP_88313_A_57632	NW_004516351.1	scaffold1039	57632	CC	TT	TT	INTERGENIC			
SNP_88314_A_57638	NW_004516351.1	scaffold1039	57638	GG	TT	TT	INTERGENIC			
SNP_88315_A_57640	NW_004516351.1	scaffold1039	57640	TT	GG	GG	INTERGENIC			
SNP_88316_A_57642	NW_004516351.1	scaffold1039	57642	CC	GG	GG	INTERGENIC			
SNP_88317_A_57646	NW_004516351.1	scaffold1039	57646	AA	GG	GG	INTERGENIC			
SNP_88318_A_57691	NW_004516351.1	scaffold1039	57691	TT	CC	CC	INTERGENIC			
SNP_88319_A_57723	NW_004516351.1	scaffold1039	57723	GG	AA	AA	INTERGENIC			
SNP_88320_A_57725	NW_004516351.1	scaffold1039	57725	TT	CC	CC	INTERGENIC			
SNP_88321_A_57822	NW_004516351.1	scaffold1039	57822	TT	AA	AA	INTERGENIC			
SNP_88322_A_57840	NW_004516351.1	scaffold1039	57840	GG	CC	CC	INTERGENIC			
SNP_88323_A_57947	NW_004516351.1	scaffold1039	57947	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88324_A_57964	NW_004516351.1	scaffold1039	57964	AA	GG	GG	INTERGENIC			
SNP_88325_A_58132	NW_004516351.1	scaffold1039	58132	TT	CC	CC	INTERGENIC			
SNP_88326_A_58146	NW_004516351.1	scaffold1039	58146	CC	AA	AA	INTERGENIC			
SNP_88327_A_58160	NW_004516351.1	scaffold1039	58160	GG	AA	AA	INTERGENIC			
SNP_88328_A_58165	NW_004516351.1	scaffold1039	58165	GG	AA	AA	INTERGENIC			
SNP_88329_A_58462	NW_004516351.1	scaffold1039	58462	TT	CC	CC	INTERGENIC			
SNP_88330_A_58825	NW_004516351.1	scaffold1039	58825	CC	AA	AA	INTERGENIC			
SNP_88331_A_58837	NW_004516351.1	scaffold1039	58837	TT	CC	CC	INTERGENIC			
SNP_88332_A_58859	NW_004516351.1	scaffold1039	58859	TT	AA	AA	INTERGENIC			
SNP_88333_A_58959	NW_004516351.1	scaffold1039	58959	CC	AA	AA	INTERGENIC			
SNP_88334_A_58967	NW_004516351.1	scaffold1039	58967	AA	GG	GG	INTERGENIC			
SNP_88335_A_58977	NW_004516351.1	scaffold1039	58977	CC	TT	TT	INTERGENIC			
SNP_88336_A_58995	NW_004516351.1	scaffold1039	58995	GG	AA	AA	INTERGENIC			
SNP_88337_A_59031	NW_004516351.1	scaffold1039	59031	GG	TT	TT	INTERGENIC			
SNP_88338_A_59040	NW_004516351.1	scaffold1039	59040	AA	TT	TT	INTERGENIC			
SNP_88339_A_59216	NW_004516351.1	scaffold1039	59216	AA	CC	CC	INTERGENIC			
SNP_88341_A_59436	NW_004516351.1	scaffold1039	59436	GG	AA	AA	INTERGENIC			
SNP_88342_A_59554	NW_004516351.1	scaffold1039	59554	GG	CC	CC	INTERGENIC			
SNP_88343_A_59855	NW_004516351.1	scaffold1039	59855	GG	AA	AA	INTERGENIC			
SNP_88344_A_59907	NW_004516351.1	scaffold1039	59907	GG	AA	AA	INTERGENIC			
SNP_88345_A_63473	NW_004516351.1	scaffold1039	63473	AA	TT	TT	INTERGENIC			
SNP_88346_A_63541	NW_004516351.1	scaffold1039	63541	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88347_A_63552	NW_004516351.1	scaffold1039	63552	TT	CC	CC	INTERGENIC			
SNP_88348_A_63608	NW_004516351.1	scaffold1039	63608	CC	TT	TT	INTERGENIC			
SNP_88349_A_63690	NW_004516351.1	scaffold1039	63690	AA	GG	GG	INTERGENIC			
SNP_88350_A_14608	NW_004516352.1	scaffold1041	14608	AA	GG	GG	INTERGENIC			
SNP_88352_A_12261	NW_004516353.1	scaffold1043	12261	GG	CC	CC	INTERGENIC			
SNP_88353_A_12276	NW_004516353.1	scaffold1043	12276	AA	GG	GG	INTERGENIC			
SNP_88354_A_12279	NW_004516353.1	scaffold1043	12279	GG	CC	CC	INTERGENIC			
SNP_88355_A_12291	NW_004516353.1	scaffold1043	12291	TT	CC	CC	INTERGENIC			
SNP_88356_A_14655	NW_004516353.1	scaffold1043	14655	AA	GG	GG	INTERGENIC			
SNP_88357_A_14665	NW_004516353.1	scaffold1043	14665	TT	GG	GG	INTERGENIC			
SNP_88358_A_14734	NW_004516353.1	scaffold1043	14734	TT	GG	GG	INTERGENIC			
SNP_88359_A_14846	NW_004516353.1	scaffold1043	14846	TT	CC	CC	INTERGENIC			
SNP_88360_A_14866	NW_004516353.1	scaffold1043	14866	AA	CC	CC	INTERGENIC			
SNP_88361_A_15082	NW_004516353.1	scaffold1043	15082	AA	GG	GG	INTERGENIC			
SNP_88362_A_15116	NW_004516353.1	scaffold1043	15116	TT	CC	CC	INTERGENIC			
SNP_88363_A_15237	NW_004516353.1	scaffold1043	15237	AA	GG	GG	INTERGENIC			
SNP_88364_A_15238	NW_004516353.1	scaffold1043	15238	AA	GG	GG	INTERGENIC			
SNP_88365_A_32862	NW_004516353.1	scaffold1043	32862	AA	GG	GG	INTERGENIC			
SNP_88366_A_32913	NW_004516353.1	scaffold1043	32913	AA	TT	TT	INTERGENIC			
SNP_88367_A_32932	NW_004516353.1	scaffold1043	32932	TT	AA	AA	INTERGENIC			
SNP_88368_A_32939	NW_004516353.1	scaffold1043	32939	AA	CC	CC	INTERGENIC			
SNP_88369_A_32961	NW_004516353.1	scaffold1043	32961	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88370_A_32971	NW_004516353.1	scaffold1043	32971	CC	AA	AA	INTERGENIC			
SNP_88371_A_32990	NW_004516353.1	scaffold1043	32990	CC	TT	TT	INTERGENIC			
SNP_88372_A_33002	NW_004516353.1	scaffold1043	33002	GG	AA	AA	INTERGENIC			
SNP_88373_A_33016	NW_004516353.1	scaffold1043	33016	CC	TT	TT	INTERGENIC			
SNP_88374_A_33028	NW_004516353.1	scaffold1043	33028	TT	AA	AA	INTERGENIC			
SNP_88375_A_33043	NW_004516353.1	scaffold1043	33043	AA	GG	GG	INTERGENIC			
SNP_88376_A_33047	NW_004516353.1	scaffold1043	33047	GG	TT	TT	INTERGENIC			
SNP_88377_A_39377	NW_004516353.1	scaffold1043	39377	GG	AA	AA	INTERGENIC			
SNP_88378_A_39503	NW_004516353.1	scaffold1043	39503	GG	AA	AA	INTERGENIC			
SNP_88379_A_39528	NW_004516353.1	scaffold1043	39528	CC	TT	TT	INTERGENIC			
SNP_88380_A_46745	NW_004516353.1	scaffold1043	46745	TT	GG	GG	INTERGENIC			
SNP_88381_A_47416	NW_004516353.1	scaffold1043	47416	CC	TT	TT	INTERGENIC			
SNP_88382_A_55560	NW_004516353.1	scaffold1043	55560	TT	CC	CC	URR	101503496	metalloendoproteinase 1-like	
SNP_88383_A_55584	NW_004516353.1	scaffold1043	55584	TT	AA	AA	URR	101503496	metalloendoproteinase 1-like	
SNP_88384_A_62963	NW_004516353.1	scaffold1043	62963	TT	CC	CC	INTERGENIC			
SNP_88385_A_63085	NW_004516353.1	scaffold1043	63085	TT	CC	CC	INTERGENIC			
SNP_88386_A_72293	NW_004516353.1	scaffold1043	72293	TT	CC	CC	INTERGENIC			
SNP_88387_A_72534	NW_004516353.1	scaffold1043	72534	TT	CC	CC	INTERGENIC			
SNP_88389_A_72596	NW_004516353.1	scaffold1043	72596	TT	GG	GG	INTERGENIC			
SNP_88390_A_76155	NW_004516353.1	scaffold1043	76155	AA	TT	TT	INTERGENIC			
SNP_88391_A_76266	NW_004516353.1	scaffold1043	76266	GG	AA	AA	INTERGENIC			
SNP_88392_A_89797	NW_004516353.1	scaffold1043	89797	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88393_A_89901	NW_004516353.1	scaffold1043	89901	TT	CC	CC	INTERGENIC			
SNP_88394_A_696	NW_004516354.1	scaffold1044	696	AA	TT	TT	INTERGENIC			
SNP_88395_A_872	NW_004516354.1	scaffold1044	872	GG	TT	TT	INTERGENIC			
SNP_88396_A_1084	NW_004516354.1	scaffold1044	1084	TT	CC	CC	INTERGENIC			
SNP_88397_A_4852	NW_004516354.1	scaffold1044	4852	CC	AA	AA	INTERGENIC			
SNP_88398_A_4929	NW_004516354.1	scaffold1044	4929	TT	CC	CC	INTERGENIC			
SNP_88399_A_4937	NW_004516354.1	scaffold1044	4937	AA	TT	TT	INTERGENIC			
SNP_88400_A_4959	NW_004516354.1	scaffold1044	4959	TT	AA	AA	INTERGENIC			
SNP_88401_A_11866	NW_004516354.1	scaffold1044	11866	TT	CC	CC	INTERGENIC			
SNP_88402_A_14040	NW_004516354.1	scaffold1044	14040	CC	TT	TT	INTERGENIC			
SNP_88403_A_16842	NW_004516354.1	scaffold1044	16842	CC	TT	TT	INTERGENIC			
SNP_88404_A_16844	NW_004516354.1	scaffold1044	16844	AA	GG	GG	INTERGENIC			
SNP_88405_A_16874	NW_004516354.1	scaffold1044	16874	TT	CC	CC	INTERGENIC			
SNP_88407_A_17271	NW_004516354.1	scaffold1044	17271	CC	GG	GG	INTERGENIC			
SNP_88408_A_17275	NW_004516354.1	scaffold1044	17275	AA	TT	TT	INTERGENIC			
SNP_88409_A_21618	NW_004516354.1	scaffold1044	21618	CC	GG	GG	INTERGENIC			
SNP_88411_A_23894	NW_004516354.1	scaffold1044	23894	AA	TT	TT	INTERGENIC			
SNP_88412_A_26865	NW_004516354.1	scaffold1044	26865	AA	TT	TT	INTERGENIC			
SNP_88413_A_27233	NW_004516354.1	scaffold1044	27233	CC	GG	GG	INTERGENIC			
SNP_88414_A_31581	NW_004516354.1	scaffold1044	31581	TT	GG	GG	INTERGENIC			
SNP_88415_A_34634	NW_004516354.1	scaffold1044	34634	AA	GG	GG	INTERGENIC			
SNP_88417_A_35656	NW_004516355.1	scaffold1045	35656	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88418_A_35754	NW_004516355.1	scaffold1045	35754	TT	CC	CC	INTERGENIC			
SNP_88419_A_35968	NW_004516355.1	scaffold1045	35968	CC	TT	TT	INTERGENIC			
SNP_88420_A_35971	NW_004516355.1	scaffold1045	35971	GG	AA	AA	INTERGENIC			
SNP_88421_A_36000	NW_004516355.1	scaffold1045	36000	CC	TT	TT	INTERGENIC			
SNP_88422_A_36101	NW_004516355.1	scaffold1045	36101	TT	CC	CC	INTERGENIC			
SNP_88423_A_36149	NW_004516355.1	scaffold1045	36149	TT	CC	CC	INTERGENIC			
SNP_88424_A_36160	NW_004516355.1	scaffold1045	36160	GG	CC	CC	INTERGENIC			
SNP_88425_A_36191	NW_004516355.1	scaffold1045	36191	AA	TT	TT	INTERGENIC			
SNP_88426_A_480	NW_004516356.1	scaffold1046	480	CC	GG	GG	INTERGENIC			
SNP_88427_A_561	NW_004516356.1	scaffold1046	561	AA	GG	GG	INTERGENIC			
SNP_88428_A_775	NW_004516356.1	scaffold1046	775	CC	TT	TT	INTERGENIC			
SNP_88429_A_832	NW_004516356.1	scaffold1046	832	CC	TT	TT	INTERGENIC			
SNP_88430_A_2480	NW_004516356.1	scaffold1046	2480	AA	GG	GG	INTERGENIC			
SNP_88431_A_3080	NW_004516356.1	scaffold1046	3080	TT	AA	AA	INTERGENIC			
SNP_88432_A_3469	NW_004516356.1	scaffold1046	3469	CC	TT	TT	INTERGENIC			
SNP_88433_A_4047	NW_004516356.1	scaffold1046	4047	AA	GG	GG	INTERGENIC			
SNP_88434_A_4232	NW_004516356.1	scaffold1046	4232	CC	TT	TT	INTERGENIC			
SNP_88435_A_4936	NW_004516356.1	scaffold1046	4936	GG	AA	AA	INTERGENIC			
SNP_88437_A_5054	NW_004516356.1	scaffold1046	5054	CC	AA	AA	INTERGENIC			
SNP_88438_A_6070	NW_004516356.1	scaffold1046	6070	GG	TT	TT	INTERGENIC			
SNP_88440_A_8661	NW_004516356.1	scaffold1046	8661	CC	AA	AA	INTERGENIC			
SNP_88441_A_8949	NW_004516356.1	scaffold1046	8949	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88442_A_9036	NW_004516356.1	scaffold1046	9036	TT	GG	GG	INTERGENIC			
SNP_88443_A_9044	NW_004516356.1	scaffold1046	9044	TT	GG	GG	INTERGENIC			
SNP_88444_A_9148	NW_004516356.1	scaffold1046	9148	GG	AA	AA	INTERGENIC			
SNP_88445_A_9236	NW_004516356.1	scaffold1046	9236	CC	AA	AA	INTERGENIC			
SNP_88446_A_9424	NW_004516356.1	scaffold1046	9424	CC	TT	TT	INTERGENIC			
SNP_88447_A_9847	NW_004516356.1	scaffold1046	9847	TT	CC	CC	INTERGENIC			
SNP_88448_A_9962	NW_004516356.1	scaffold1046	9962	AA	CC	CC	INTERGENIC			
SNP_88449_A_10097	NW_004516356.1	scaffold1046	10097	CC	TT	TT	INTERGENIC			
SNP_88450_A_10137	NW_004516356.1	scaffold1046	10137	TT	GG	GG	INTERGENIC			
SNP_88451_A_10326	NW_004516356.1	scaffold1046	10326	AA	GG	GG	INTERGENIC			
SNP_88452_A_10566	NW_004516356.1	scaffold1046	10566	AA	CC	CC	INTERGENIC			
SNP_88453_A_10623	NW_004516356.1	scaffold1046	10623	TT	GG	GG	INTERGENIC			
SNP_88454_A_10694	NW_004516356.1	scaffold1046	10694	CC	GG	GG	INTERGENIC			
SNP_88455_A_10750	NW_004516356.1	scaffold1046	10750	AA	TT	TT	INTERGENIC			
SNP_88456_A_10879	NW_004516356.1	scaffold1046	10879	TT	AA	AA	INTERGENIC			
SNP_88457_A_11040	NW_004516356.1	scaffold1046	11040	AA	TT	TT	INTERGENIC			
SNP_88458_A_11079	NW_004516356.1	scaffold1046	11079	AA	GG	GG	INTERGENIC			
SNP_88459_A_11097	NW_004516356.1	scaffold1046	11097	GG	AA	AA	INTERGENIC			
SNP_88460_A_11333	NW_004516356.1	scaffold1046	11333	CC	TT	TT	INTERGENIC			
SNP_88461_A_11365	NW_004516356.1	scaffold1046	11365	CC	TT	TT	INTERGENIC			
SNP_88463_A_11392	NW_004516356.1	scaffold1046	11392	CC	TT	TT	INTERGENIC			
SNP_88464_A_11400	NW_004516356.1	scaffold1046	11400	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88465_A_11419	NW_004516356.1	scaffold1046	11419	TT	GG	GG	INTERGENIC			
SNP_88466_A_11618	NW_004516356.1	scaffold1046	11618	GG	AA	AA	INTERGENIC			
SNP_88467_A_11809	NW_004516356.1	scaffold1046	11809	AA	CC	CC	INTERGENIC			
SNP_88468_A_11827	NW_004516356.1	scaffold1046	11827	AA	CC	CC	INTERGENIC			
SNP_88469_A_11844	NW_004516356.1	scaffold1046	11844	AA	GG	GG	INTERGENIC			
SNP_88470_A_11895	NW_004516356.1	scaffold1046	11895	AA	CC	CC	INTERGENIC			
SNP_88471_A_11956	NW_004516356.1	scaffold1046	11956	AA	CC	CC	INTERGENIC			
SNP_88472_A_12032	NW_004516356.1	scaffold1046	12032	CC	TT	TT	INTERGENIC			
SNP_88473_A_12063	NW_004516356.1	scaffold1046	12063	AA	CC	CC	INTERGENIC			
SNP_88474_A_12093	NW_004516356.1	scaffold1046	12093	CC	GG	GG	INTERGENIC			
SNP_88475_A_12132	NW_004516356.1	scaffold1046	12132	CC	GG	GG	INTERGENIC			
SNP_88476_A_12203	NW_004516356.1	scaffold1046	12203	GG	TT	TT	INTERGENIC			
SNP_88477_A_12302	NW_004516356.1	scaffold1046	12302	CC	GG	GG	INTERGENIC			
SNP_88478_A_12413	NW_004516356.1	scaffold1046	12413	CC	AA	AA	INTERGENIC			
SNP_88479_A_12468	NW_004516356.1	scaffold1046	12468	GG	AA	AA	INTERGENIC			
SNP_88480_A_12892	NW_004516356.1	scaffold1046	12892	TT	GG	GG	INTERGENIC			
SNP_88481_A_13095	NW_004516356.1	scaffold1046	13095	TT	CC	CC	INTERGENIC			
SNP_88482_A_14621	NW_004516356.1	scaffold1046	14621	GG	TT	TT	INTERGENIC			
SNP_88483_A_15413	NW_004516356.1	scaffold1046	15413	GG	TT	TT	INTERGENIC			
SNP_88484_A_15419	NW_004516356.1	scaffold1046	15419	CC	GG	GG	INTERGENIC			
SNP_88485_A_15592	NW_004516356.1	scaffold1046	15592	GG	TT	TT	INTERGENIC			
SNP_88486_A_15717	NW_004516356.1	scaffold1046	15717	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88487_A_15733	NW_004516356.1	scaffold1046	15733	GG	CC	CC	INTERGENIC			
SNP_88489_A_17065	NW_004516356.1	scaffold1046	17065	TT	CC	CC	INTERGENIC			
SNP_88490_A_17097	NW_004516356.1	scaffold1046	17097	CC	AA	AA	INTERGENIC			
SNP_88491_A_17354	NW_004516356.1	scaffold1046	17354	AA	TT	TT	INTERGENIC			
SNP_88492_A_17527	NW_004516356.1	scaffold1046	17527	AA	CC	CC	INTERGENIC			
SNP_88494_A_18073	NW_004516356.1	scaffold1046	18073	GG	TT	TT	INTERGENIC			
SNP_88495_A_18194	NW_004516356.1	scaffold1046	18194	TT	AA	AA	INTERGENIC			
SNP_88496_A_19446	NW_004516356.1	scaffold1046	19446	TT	CC	CC	INTERGENIC			
SNP_88497_A_19448	NW_004516356.1	scaffold1046	19448	GG	AA	AA	INTERGENIC			
SNP_88498_A_19546	NW_004516356.1	scaffold1046	19546	AA	CC	CC	INTERGENIC			
SNP_88499_A_19685	NW_004516356.1	scaffold1046	19685	AA	GG	GG	INTERGENIC			
SNP_88500_A_19737	NW_004516356.1	scaffold1046	19737	AA	GG	GG	INTERGENIC			
SNP_88501_A_20185	NW_004516356.1	scaffold1046	20185	GG	AA	AA	INTERGENIC			
SNP_88503_A_20545	NW_004516356.1	scaffold1046	20545	CC	AA	AA	INTERGENIC			
SNP_88504_A_20593	NW_004516356.1	scaffold1046	20593	AA	TT	TT	INTERGENIC			
SNP_88506_A_21843	NW_004516356.1	scaffold1046	21843	CC	GG	GG	INTERGENIC			
SNP_88507_A_22190	NW_004516356.1	scaffold1046	22190	AA	GG	GG	INTERGENIC			
SNP_88508_A_22706	NW_004516356.1	scaffold1046	22706	CC	TT	TT	INTERGENIC			
SNP_88509_A_30325	NW_004516356.1	scaffold1046	30325	TT	AA	AA	INTERGENIC			
SNP_88510_A_31927	NW_004516356.1	scaffold1046	31927	AA	GG	GG	INTERGENIC			
SNP_88511_A_32340	NW_004516356.1	scaffold1046	32340	AA	TT	TT	INTERGENIC			
SNP_88512_A_5073	NW_004516357.1	scaffold1047	5073	AA	TT	TT	INTRON	101503832	cytochrome P450 714C2-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88513_A_5150	NW_004516357.1	scaffold1047	5150	GG	TT	TT	INTRON	101503832	cytochrome P450 714C2-like
SNP_88514_A_5187	NW_004516357.1	scaffold1047	5187	GG	AA	AA	INTRON	101503832	cytochrome P450 714C2-like
SNP_88515_A_5518	NW_004516357.1	scaffold1047	5518	GG	AA	AA	INTRON	101503832	cytochrome P450 714C2-like
SNP_88516_A_7749	NW_004516357.1	scaffold1047	7749	AA	GG	GG	URR	101503832	cytochrome P450 714C2-like
SNP_88517_A_16785	NW_004516357.1	scaffold1047	16785	TT	CC	CC	INTERGENIC		
SNP_88518_A_19396	NW_004516357.1	scaffold1047	19396	TT	CC	CC	INTRON	101496188	beta-fructofuranosidase, cell wall isozyme-like
SNP_88519_A_24505	NW_004516357.1	scaffold1047	24505	AA	TT	TT	URR	101496188	beta-fructofuranosidase, cell wall isozyme-like
SNP_88520_A_27944	NW_004516357.1	scaffold1047	27944	GG	AA	AA	INTERGENIC		
SNP_88521_A_35192	NW_004516357.1	scaffold1047	35192	AA	GG	GG	INTERGENIC		
SNP_88522_A_36101	NW_004516357.1	scaffold1047	36101	GG	AA	AA	INTERGENIC		
SNP_88523_A_39190	NW_004516357.1	scaffold1047	39190	AA	GG	GG	INTERGENIC		
SNP_88525_A_45217	NW_004516357.1	scaffold1047	45217	TT	AA	AA	INTERGENIC		
SNP_88526_A_45513	NW_004516357.1	scaffold1047	45513	AA	GG	GG	INTERGENIC		
SNP_88527_A_49668	NW_004516357.1	scaffold1047	49668	CC	TT	TT	INTRON	101504469	phosphatidylinositol 4-phosphate 5-kinase 9-like
SNP_88528_A_50862	NW_004516357.1	scaffold1047	50862	CC	TT	TT	INTERGENIC		
SNP_88529_A_51246	NW_004516357.1	scaffold1047	51246	AA	TT	TT	INTERGENIC		
SNP_88530_A_55857	NW_004516357.1	scaffold1047	55857	TT	GG	GG	INTERGENIC		
SNP_88531_A_57515	NW_004516357.1	scaffold1047	57515	TT	CC	CC	INTRON	101504789	beta-fructofuranosidase, cell wall isozyme-like
SNP_88533_A_69053	NW_004516357.1	scaffold1047	69053	CC	TT	TT	INTRON	101505762	actin-related protein 4
SNP_88534_A_70502	NW_004516357.1	scaffold1047	70502	AA	TT	TT	INTRON	101505762	actin-related protein 4
SNP_88535_A_71106	NW_004516357.1	scaffold1047	71106	GG	TT	TT	INTRON	101505762	actin-related protein 4
SNP_88536_A_72550	NW_004516357.1	scaffold1047	72550	TT	GG	GG	INTRON	101505762	actin-related protein 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88537_A_72962	NW_004516357.1	scaffold1047	72962	TT	CC	CC	INTRON	101505762	actin-related protein 4
SNP_88539_A_73951	NW_004516357.1	scaffold1047	73951	AA	CC	CC	URR	101505762	actin-related protein 4
SNP_88540_A_74999	NW_004516357.1	scaffold1047	74999	GG	TT	TT	DRR	101496518	uncharacterized protein At1g28695-like
SNP_88541_A_81193	NW_004516357.1	scaffold1047	81193	AA	GG	GG	URR	101496518	uncharacterized protein At1g28695-like
SNP_88542_A_82112	NW_004516357.1	scaffold1047	82112	TT	AA	AA	INTERGENIC		
SNP_88544_A_95592	NW_004516357.1	scaffold1047	95592	TT	CC	CC	URR	101506289	nucleolin
SNP_88545_A_96369	NW_004516357.1	scaffold1047	96369	AA	GG	GG	URR	101506289	nucleolin
SNP_88546_A_96988	NW_004516357.1	scaffold1047	96988	CC	AA	AA	INTERGENIC		
SNP_88547_A_97002	NW_004516357.1	scaffold1047	97002	AA	TT	TT	INTERGENIC		
SNP_88548_A_97580	NW_004516357.1	scaffold1047	97580	TT	CC	CC	INTERGENIC		
SNP_88549_A_100788	NW_004516357.1	scaffold1047	100788	GG	CC	CC	URR	101506841	cyclin-U4-1-like
SNP_88550_A_102477	NW_004516357.1	scaffold1047	102477	GG	AA	AA	URR	101506841	cyclin-U4-1-like
SNP_88551_A_103407	NW_004516357.1	scaffold1047	103407	CC	TT	TT	INTERGENIC		
SNP_88553_A_138110	NW_004516357.1	scaffold1047	138110	CC	TT	TT	INTRON	101509278	dol-P-Man:Man(7)GlcNAc(2)-PP-Dol mannosyltransferase alpha-1,6-
SNP_88554_A_175424	NW_004516357.1	scaffold1047	175424	AA	GG	GG	INTERGENIC		
SNP_88555_A_256398	NW_004516357.1	scaffold1047	256398	AA	TT	TT	URR	101512507	probable serine/threonine-protein kinase cdc7
SNP_88556_A_264010	NW_004516357.1	scaffold1047	264010	CC	TT	TT	INTERGENIC		
SNP_88557_A_281047	NW_004516357.1	scaffold1047	281047	CC	GG	GG	INTERGENIC		
SNP_88560_A_325119	NW_004516357.1	scaffold1047	325119	AA	GG	GG	INTRON	101513470	uclacyanin-2-like
SNP_88561_A_360607	NW_004516357.1	scaffold1047	360607	TT	CC	CC	URR	101514998	plasminogen activator inhibitor 1 RNA-binding protein-like
SNP_88562_A_383449	NW_004516357.1	scaffold1047	383449	AA	TT	TT	INTERGENIC		
SNP_88563_A_385785	NW_004516357.1	scaffold1047	385785	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88564_A_385813	NW_004516357.1	scaffold1047	385813	GG	AA	AA	INTERGENIC		
SNP_88565_A_385818	NW_004516357.1	scaffold1047	385818	GG	AA	AA	INTERGENIC		
SNP_88566_A_385831	NW_004516357.1	scaffold1047	385831	CC	GG	GG	INTERGENIC		
SNP_88567_A_385837	NW_004516357.1	scaffold1047	385837	TT	GG	GG	INTERGENIC		
SNP_88568_A_386057	NW_004516357.1	scaffold1047	386057	TT	AA	AA	INTERGENIC		
SNP_88569_A_386927	NW_004516357.1	scaffold1047	386927	CC	TT	TT	INTERGENIC		
SNP_88570_A_399895	NW_004516357.1	scaffold1047	399895	CC	TT	TT	URR	101488616	uncharacterized LOC101488616
SNP_88572_A_419821	NW_004516357.1	scaffold1047	419821	GG	TT	TT	INTERGENIC		
SNP_88573_A_419898	NW_004516357.1	scaffold1047	419898	GG	AA	AA	INTERGENIC		
SNP_88574_A_419919	NW_004516357.1	scaffold1047	419919	GG	AA	AA	INTERGENIC		
SNP_88575_A_454659	NW_004516357.1	scaffold1047	454659	CC	AA	AA	INTERGENIC		
SNP_88577_A_503170	NW_004516357.1	scaffold1047	503170	AA	GG	GG	INTERGENIC		
SNP_88578_A_503407	NW_004516357.1	scaffold1047	503407	AA	GG	GG	INTERGENIC		
SNP_88579_A_509269	NW_004516357.1	scaffold1047	509269	CC	TT	TT	INTERGENIC		
SNP_88581_A_552766	NW_004516357.1	scaffold1047	552766	GG	AA	AA	URR	101494364	hydroquinone glucosyltransferase-like
SNP_88582_A_569410	NW_004516357.1	scaffold1047	569410	TT	CC	CC	INTERGENIC		
SNP_88583_A_591910	NW_004516357.1	scaffold1047	591910	CC	GG	GG	INTRON	101495860	actin-related protein 4-like
SNP_88584_A_595002	NW_004516357.1	scaffold1047	595002	CC	TT	TT	INTRON	101495860	actin-related protein 4-like
SNP_88585_A_595055	NW_004516357.1	scaffold1047	595055	GG	AA	AA	INTRON	101495860	actin-related protein 4-like
SNP_88587_A_147	NW_004516358.1	scaffold1048	147	AA	GG	GG	INTERGENIC		
SNP_88589_A_1728	NW_004516359.1	scaffold1049	1728	CC	TT	TT	INTERGENIC		
SNP_88590_A_1733	NW_004516359.1	scaffold1049	1733	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88591_A_1736	NW_004516359.1	scaffold1049	1736	GG	TT	TT	INTERGENIC		
SNP_88592_A_1744	NW_004516359.1	scaffold1049	1744	AA	GG	GG	INTERGENIC		
SNP_88593_A_34557	NW_004516359.1	scaffold1049	34557	TT	CC	CC	INTERGENIC		
SNP_88594_A_34562	NW_004516359.1	scaffold1049	34562	TT	CC	CC	INTERGENIC		
SNP_88595_A_73015	NW_004516359.1	scaffold1049	73015	CC	TT	TT	INTERGENIC		
SNP_88596_A_74752	NW_004516359.1	scaffold1049	74752	AA	GG	GG	INTERGENIC		
SNP_88598_A_93233	NW_004516359.1	scaffold1049	93233	CC	GG	GG	INTERGENIC		
SNP_88599_A_99703	NW_004516359.1	scaffold1049	99703	TT	GG	GG	INTERGENIC		
SNP_88600_A_99936	NW_004516359.1	scaffold1049	99936	TT	AA	AA	INTERGENIC		
SNP_88601_A_110915	NW_004516359.1	scaffold1049	110915	GG	TT	TT	INTRON	101499978	Unknown function
SNP_88602_A_110943	NW_004516359.1	scaffold1049	110943	TT	CC	CC	INTRON	101499978	Unknown function
SNP_88603_A_110979	NW_004516359.1	scaffold1049	110979	AA	CC	CC	INTRON	101499978	Unknown function
SNP_88604_A_111182	NW_004516359.1	scaffold1049	111182	TT	CC	CC	INTRON	101499978	Unknown function
SNP_88605_A_111247	NW_004516359.1	scaffold1049	111247	AA	GG	GG	SYNONYMOUS_CODING	101499978	Unknown function
SNP_88606_A_127969	NW_004516359.1	scaffold1049	127969	TT	GG	GG	INTERGENIC		
SNP_88607_A_127987	NW_004516359.1	scaffold1049	127987	AA	GG	GG	INTERGENIC		
SNP_88608_A_127988	NW_004516359.1	scaffold1049	127988	CC	GG	GG	INTERGENIC		
SNP_88609_A_128098	NW_004516359.1	scaffold1049	128098	AA	GG	GG	INTERGENIC		
SNP_88610_A_128253	NW_004516359.1	scaffold1049	128253	TT	CC	CC	INTERGENIC		
SNP_88611_A_128270	NW_004516359.1	scaffold1049	128270	AA	GG	GG	INTERGENIC		
SNP_88612_A_128298	NW_004516359.1	scaffold1049	128298	GG	CC	CC	INTERGENIC		
SNP_88613_A_128466	NW_004516359.1	scaffold1049	128466	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88614_A_128475	NW_004516359.1	scaffold1049	128475	GG	AA	AA	INTERGENIC		
SNP_88615_A_128487	NW_004516359.1	scaffold1049	128487	AA	GG	GG	INTERGENIC		
SNP_88616_A_128580	NW_004516359.1	scaffold1049	128580	AA	GG	GG	INTERGENIC		
SNP_88617_A_128587	NW_004516359.1	scaffold1049	128587	CC	TT	TT	INTERGENIC		
SNP_88618_A_160072	NW_004516359.1	scaffold1049	160072	TT	AA	AA	INTERGENIC		
SNP_88619_A_185136	NW_004516359.1	scaffold1049	185136	GG	AA	AA	INTERGENIC		
SNP_88620_A_195016	NW_004516359.1	scaffold1049	195016	AA	GG	GG	INTERGENIC		
SNP_88621_A_240392	NW_004516359.1	scaffold1049	240392	CC	TT	TT	INTERGENIC		
SNP_88622_A_262408	NW_004516359.1	scaffold1049	262408	AA	GG	GG	INTRON	101500948	Unknown function
SNP_88623_A_277314	NW_004516359.1	scaffold1049	277314	AA	GG	GG	INTERGENIC		
SNP_88624_A_277334	NW_004516359.1	scaffold1049	277334	TT	CC	CC	INTERGENIC		
SNP_88625_A_293701	NW_004516359.1	scaffold1049	293701	TT	AA	AA	INTERGENIC		
SNP_88627_A_13200	NW_004516360.1	scaffold1050	13200	CC	TT	TT	INTERGENIC		
SNP_88628_A_13211	NW_004516360.1	scaffold1050	13211	AA	GG	GG	INTERGENIC		
SNP_88629_A_13226	NW_004516360.1	scaffold1050	13226	CC	TT	TT	INTERGENIC		
SNP_88630_A_13574	NW_004516360.1	scaffold1050	13574	TT	AA	AA	INTERGENIC		
SNP_88631_A_60978	NW_004516360.1	scaffold1050	60978	TT	CC	CC	INTERGENIC		
SNP_88632_A_94493	NW_004516360.1	scaffold1050	94493	TT	CC	CC	INTRON	101502956	Unknown function
SNP_88633_A_97708	NW_004516360.1	scaffold1050	97708	GG	AA	AA	INTRON	101502956	Unknown function
SNP_88634_A_246568	NW_004516360.1	scaffold1050	246568	AA	GG	GG	INTERGENIC		
SNP_88635_A_249853	NW_004516360.1	scaffold1050	249853	TT	CC	CC	INTERGENIC		
SNP_88636_A_249892	NW_004516360.1	scaffold1050	249892	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88637_A_249906	NW_004516360.1	scaffold1050	249906	TT	GG	GG	INTERGENIC			
SNP_88638_A_249923	NW_004516360.1	scaffold1050	249923	TT	CC	CC	INTERGENIC			
SNP_88640_A_2146	NW_004516361.1	scaffold1051	2146	AA	TT	TT	INTERGENIC			
SNP_88641_A_2302	NW_004516361.1	scaffold1051	2302	TT	GG	GG	INTERGENIC			
SNP_88642_A_13632	NW_004516361.1	scaffold1051	13632	GG	CC	CC	INTERGENIC			
SNP_88643_A_13712	NW_004516361.1	scaffold1051	13712	TT	CC	CC	INTERGENIC			
SNP_88644_A_13827	NW_004516361.1	scaffold1051	13827	CC	TT	TT	INTERGENIC			
SNP_88645_A_13833	NW_004516361.1	scaffold1051	13833	TT	AA	AA	INTERGENIC			
SNP_88646_A_13872	NW_004516361.1	scaffold1051	13872	TT	CC	CC	INTERGENIC			
SNP_88647_A_13878	NW_004516361.1	scaffold1051	13878	TT	CC	CC	INTERGENIC			
SNP_88648_A_13985	NW_004516361.1	scaffold1051	13985	CC	TT	TT	INTERGENIC			
SNP_88649_A_14011	NW_004516361.1	scaffold1051	14011	GG	AA	AA	INTERGENIC			
SNP_88650_A_14051	NW_004516361.1	scaffold1051	14051	GG	TT	TT	INTERGENIC			
SNP_88651_A_14268	NW_004516361.1	scaffold1051	14268	TT	CC	CC	INTERGENIC			
SNP_88652_A_24673	NW_004516361.1	scaffold1051	24673	AA	CC	CC	INTERGENIC			
SNP_88653_A_25610	NW_004516361.1	scaffold1051	25610	CC	TT	TT	INTERGENIC			
SNP_88654_A_29122	NW_004516361.1	scaffold1051	29122	AA	TT	TT	INTERGENIC			
SNP_88655_A_30559	NW_004516361.1	scaffold1051	30559	AA	GG	GG	INTERGENIC			
SNP_88656_A_30560	NW_004516361.1	scaffold1051	30560	AA	GG	GG	INTERGENIC			
SNP_88657_A_44875	NW_004516361.1	scaffold1051	44875	CC	TT	TT	INTERGENIC			
SNP_88658_A_48651	NW_004516361.1	scaffold1051	48651	CC	TT	TT	INTERGENIC			
SNP_88659_A_49066	NW_004516361.1	scaffold1051	49066	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88660_A_50378	NW_004516361.1	scaffold1051	50378	GG	CC	CC	INTERGENIC			
SNP_88661_A_73789	NW_004516361.1	scaffold1051	73789	TT	GG	GG	INTERGENIC			
SNP_88662_A_77136	NW_004516361.1	scaffold1051	77136	AA	CC	CC	INTERGENIC			
SNP_88663_A_10419	NW_004516362.1	scaffold1052	10419	GG	AA	AA	INTERGENIC			
SNP_88664_A_10432	NW_004516362.1	scaffold1052	10432	CC	TT	TT	INTERGENIC			
SNP_88665_A_10445	NW_004516362.1	scaffold1052	10445	GG	AA	AA	INTERGENIC			
SNP_88666_A_11357	NW_004516362.1	scaffold1052	11357	TT	CC	CC	INTERGENIC			
SNP_88668_A_11470	NW_004516362.1	scaffold1052	11470	TT	CC	CC	INTERGENIC			
SNP_88669_A_14630	NW_004516362.1	scaffold1052	14630	CC	TT	TT	INTERGENIC			
SNP_88670_A_14738	NW_004516362.1	scaffold1052	14738	GG	AA	AA	INTERGENIC			
SNP_88671_A_16224	NW_004516362.1	scaffold1052	16224	TT	CC	CC	INTERGENIC			
SNP_88673_A_16417	NW_004516362.1	scaffold1052	16417	TT	AA	AA	INTERGENIC			
SNP_88675_A_16519	NW_004516362.1	scaffold1052	16519	AA	GG	GG	INTERGENIC			
SNP_88676_A_16590	NW_004516362.1	scaffold1052	16590	TT	CC	CC	INTERGENIC			
SNP_88677_A_17539	NW_004516362.1	scaffold1052	17539	AA	GG	GG	INTERGENIC			
SNP_88678_A_17679	NW_004516362.1	scaffold1052	17679	AA	CC	CC	INTERGENIC			
SNP_88679_A_17822	NW_004516362.1	scaffold1052	17822	CC	TT	TT	INTERGENIC			
SNP_88680_A_18013	NW_004516362.1	scaffold1052	18013	CC	TT	TT	INTERGENIC			
SNP_88682_A_22797	NW_004516362.1	scaffold1052	22797	GG	AA	AA	INTERGENIC			
SNP_88683_A_41218	NW_004516362.1	scaffold1052	41218	GG	AA	AA	INTERGENIC			
SNP_88685_A_50284	NW_004516362.1	scaffold1052	50284	AA	TT	TT	INTERGENIC			
SNP_88686_A_50306	NW_004516362.1	scaffold1052	50306	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88687_A_50489	NW_004516362.1	scaffold1052	50489	CC	TT	TT	INTERGENIC			
SNP_88688_A_50876	NW_004516362.1	scaffold1052	50876	AA	TT	TT	INTERGENIC			
SNP_88689_A_50881	NW_004516362.1	scaffold1052	50881	TT	AA	AA	INTERGENIC			
SNP_88691_A_53622	NW_004516362.1	scaffold1052	53622	CC	TT	TT	INTERGENIC			
SNP_88692_A_55183	NW_004516362.1	scaffold1052	55183	GG	TT	TT	INTERGENIC			
SNP_88693_A_55381	NW_004516362.1	scaffold1052	55381	GG	AA	AA	INTERGENIC			
SNP_88694_A_57847	NW_004516362.1	scaffold1052	57847	TT	CC	CC	INTERGENIC			
SNP_88695_A_60626	NW_004516362.1	scaffold1052	60626	GG	TT	TT	INTERGENIC			
SNP_88696_A_65457	NW_004516362.1	scaffold1052	65457	TT	AA	AA	INTERGENIC			
SNP_88697_A_66043	NW_004516362.1	scaffold1052	66043	GG	AA	AA	INTERGENIC			
SNP_88698_A_66070	NW_004516362.1	scaffold1052	66070	GG	CC	CC	INTERGENIC			
SNP_88699_A_67409	NW_004516362.1	scaffold1052	67409	GG	CC	CC	INTERGENIC			
SNP_88700_A_67432	NW_004516362.1	scaffold1052	67432	CC	TT	TT	INTERGENIC			
SNP_88701_A_71783	NW_004516362.1	scaffold1052	71783	TT	AA	AA	INTERGENIC			
SNP_88702_A_77643	NW_004516362.1	scaffold1052	77643	GG	AA	CC	INTERGENIC			
SNP_88703_A_78250	NW_004516362.1	scaffold1052	78250	GG	AA	AA	INTERGENIC			
SNP_88704_A_81871	NW_004516362.1	scaffold1052	81871	AA	GG	GG	INTERGENIC			
SNP_88705_A_84478	NW_004516362.1	scaffold1052	84478	CC	GG	GG	INTERGENIC			
SNP_88706_A_88561	NW_004516362.1	scaffold1052	88561	GG	AA	AA	INTERGENIC			
SNP_88707_A_88579	NW_004516362.1	scaffold1052	88579	TT	GG	GG	INTERGENIC			
SNP_88708_A_88622	NW_004516362.1	scaffold1052	88622	TT	AA	AA	INTERGENIC			
SNP_88709_A_88623	NW_004516362.1	scaffold1052	88623	TT	GG	GG	INTERGENIC			

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SNP_88711_A_96181	NW_004516362.1	scaffold1052	96181	CC	TT	TT	INTERGENIC		
SNP_88712_A_104272	NW_004516362.1	scaffold1052	104272	GG	AA	AA	INTERGENIC		
SNP_88713_A_104716	NW_004516362.1	scaffold1052	104716	TT	AA	AA	INTERGENIC		
SNP_88714_A_105155	NW_004516362.1	scaffold1052	105155	CC	AA	AA	INTERGENIC		
SNP_88715_A_116532	NW_004516362.1	scaffold1052	116532	CC	TT	TT	INTERGENIC		
SNP_88717_A_129443	NW_004516362.1	scaffold1052	129443	GG	AA	AA	INTERGENIC		
SNP_88718_A_129943	NW_004516362.1	scaffold1052	129943	AA	GG	GG	INTERGENIC		
SNP_88719_A_133251	NW_004516362.1	scaffold1052	133251	TT	CC	CC	INTERGENIC		
SNP_88720_A_133254	NW_004516362.1	scaffold1052	133254	TT	CC	CC	INTERGENIC		
SNP_88721_A_133431	NW_004516362.1	scaffold1052	133431	CC	TT	TT	INTERGENIC		
SNP_88722_A_134536	NW_004516362.1	scaffold1052	134536	GG	CC	CC	INTERGENIC		
SNP_88723_A_141106	NW_004516362.1	scaffold1052	141106	GG	TT	TT	INTERGENIC		
SNP_88725_A_152661	NW_004516362.1	scaffold1052	152661	AA	TT	TT	INTRON	101505106	Unknown function
SNP_88726_A_160067	NW_004516362.1	scaffold1052	160067	CC	TT	TT	URR	101505106	Unknown function
SNP_88727_A_171247	NW_004516362.1	scaffold1052	171247	AA	GG	GG	INTERGENIC		
SNP_88728_A_171398	NW_004516362.1	scaffold1052	171398	GG	CC	CC	INTERGENIC		
SNP_88729_A_171525	NW_004516362.1	scaffold1052	171525	GG	AA	AA	INTERGENIC		
SNP_88730_A_171537	NW_004516362.1	scaffold1052	171537	GG	AA	AA	INTERGENIC		
SNP_88731_A_171611	NW_004516362.1	scaffold1052	171611	AA	TT	TT	INTERGENIC		
SNP_88732_A_173499	NW_004516362.1	scaffold1052	173499	GG	AA	AA	INTERGENIC		
SNP_88733_A_175076	NW_004516362.1	scaffold1052	175076	TT	AA	AA	INTERGENIC		
SNP_88734_A_186367	NW_004516362.1	scaffold1052	186367	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88735_A_186541	NW_004516362.1	scaffold1052	186541	GG	CC	CC	INTERGENIC		
SNP_88736_A_186885	NW_004516362.1	scaffold1052	186885	TT	CC	CC	INTERGENIC		
SNP_88738_A_189457	NW_004516362.1	scaffold1052	189457	TT	GG	GG	INTERGENIC		
SNP_88739_A_190219	NW_004516362.1	scaffold1052	190219	AA	TT	TT	INTERGENIC		
SNP_88740_A_190220	NW_004516362.1	scaffold1052	190220	AA	GG	GG	INTERGENIC		
SNP_88741_A_200662	NW_004516362.1	scaffold1052	200662	AA	TT	TT	INTERGENIC		
SNP_88742_A_204032	NW_004516362.1	scaffold1052	204032	GG	TT	TT	INTERGENIC		
SNP_88743_A_215612	NW_004516362.1	scaffold1052	215612	AA	GG	GG	INTERGENIC		
SNP_88744_A_215753	NW_004516362.1	scaffold1052	215753	CC	GG	GG	INTERGENIC		
SNP_88745_A_216136	NW_004516362.1	scaffold1052	216136	CC	TT	TT	INTERGENIC		
SNP_88746_A_216147	NW_004516362.1	scaffold1052	216147	CC	TT	TT	INTERGENIC		
SNP_88747_A_216178	NW_004516362.1	scaffold1052	216178	TT	CC	CC	INTERGENIC		
SNP_88748_A_216182	NW_004516362.1	scaffold1052	216182	AA	GG	GG	INTERGENIC		
SNP_88750_A_225128	NW_004516362.1	scaffold1052	225128	CC	TT	TT	INTERGENIC		
SNP_88751_A_226392	NW_004516362.1	scaffold1052	226392	TT	CC	CC	INTERGENIC		
SNP_88752_A_233182	NW_004516362.1	scaffold1052	233182	CC	TT	TT	INTERGENIC		
SNP_88753_A_233245	NW_004516362.1	scaffold1052	233245	CC	TT	TT	INTERGENIC		
SNP_88754_A_233482	NW_004516362.1	scaffold1052	233482	AA	GG	GG	INTERGENIC		
SNP_88755_A_233513	NW_004516362.1	scaffold1052	233513	CC	TT	TT	INTERGENIC		
SNP_88756_A_252443	NW_004516362.1	scaffold1052	252443	TT	AA	AA	INTERGENIC		
SNP_88757_A_252446	NW_004516362.1	scaffold1052	252446	TT	CC	CC	INTERGENIC		
SNP_88758_A_260015	NW_004516362.1	scaffold1052	260015	AA	GG	GG	URR	101505763	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88759_A_260148	NW_004516362.1	scaffold1052	260148	CC	TT	TT	URR	101505763	Unknown function
SNP_88760_A_264873	NW_004516362.1	scaffold1052	264873	GG	AA	AA	NON_SYNONYMOUS_CODING	id209279	Unknown function
SNP_88761_A_268665	NW_004516362.1	scaffold1052	268665	TT	CC	CC	INTERGENIC		
SNP_88762_A_278328	NW_004516362.1	scaffold1052	278328	AA	GG	GG	INTERGENIC		
SNP_88763_A_278526	NW_004516362.1	scaffold1052	278526	TT	CC	CC	INTERGENIC		
SNP_88764_A_280525	NW_004516362.1	scaffold1052	280525	AA	GG	GG	INTERGENIC		
SNP_88765_A_282008	NW_004516362.1	scaffold1052	282008	CC	TT	TT	INTERGENIC		
SNP_88766_A_290485	NW_004516362.1	scaffold1052	290485	GG	AA	AA	INTERGENIC		
SNP_88767_A_291727	NW_004516362.1	scaffold1052	291727	GG	AA	AA	INTERGENIC		
SNP_88768_A_294348	NW_004516362.1	scaffold1052	294348	GG	AA	AA	INTERGENIC		
SNP_88769_A_295377	NW_004516362.1	scaffold1052	295377	TT	AA	AA	INTERGENIC		
SNP_88770_A_295444	NW_004516362.1	scaffold1052	295444	CC	AA	AA	INTERGENIC		
SNP_88771_A_303207	NW_004516362.1	scaffold1052	303207	AA	TT	TT	INTERGENIC		
SNP_88772_A_303304	NW_004516362.1	scaffold1052	303304	TT	CC	CC	INTERGENIC		
SNP_88773_A_329997	NW_004516362.1	scaffold1052	329997	CC	AA	AA	INTERGENIC		
SNP_88774_A_330938	NW_004516362.1	scaffold1052	330938	TT	CC	CC	INTERGENIC		
SNP_88775_A_336981	NW_004516362.1	scaffold1052	336981	AA	GG	GG	INTERGENIC		
SNP_88776_A_337031	NW_004516362.1	scaffold1052	337031	TT	CC	CC	INTERGENIC		
SNP_88777_A_338698	NW_004516362.1	scaffold1052	338698	TT	CC	CC	INTERGENIC		
SNP_88778_A_339766	NW_004516362.1	scaffold1052	339766	CC	AA	AA	INTERGENIC		
SNP_88779_A_339779	NW_004516362.1	scaffold1052	339779	AA	TT	TT	INTERGENIC		
SNP_88780_A_13279	NW_004516364.1	scaffold1055	13279	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88781_A_13286	NW_004516364.1	scaffold1055	13286	TT	CC	CC	INTERGENIC		
SNP_88782_A_13335	NW_004516364.1	scaffold1055	13335	AA	CC	CC	INTERGENIC		
SNP_88783_A_13957	NW_004516364.1	scaffold1055	13957	TT	AA	AA	INTERGENIC		
SNP_88784_A_14938	NW_004516364.1	scaffold1055	14938	AA	GG	GG	INTERGENIC		
SNP_88785_A_16209	NW_004516364.1	scaffold1055	16209	GG	AA	AA	INTERGENIC		
SNP_88786_A_16843	NW_004516364.1	scaffold1055	16843	AA	GG	GG	INTERGENIC		
SNP_88788_A_49628	NW_004516364.1	scaffold1055	49628	GG	TT	TT	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88789_A_50947	NW_004516364.1	scaffold1055	50947	GG	AA	AA	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88790_A_56120	NW_004516364.1	scaffold1055	56120	AA	GG	GG	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88791_A_56148	NW_004516364.1	scaffold1055	56148	AA	TT	TT	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88794_A_56414	NW_004516364.1	scaffold1055	56414	TT	CC	CC	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88795_A_56437	NW_004516364.1	scaffold1055	56437	TT	GG	GG	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88796_A_56512	NW_004516364.1	scaffold1055	56512	AA	GG	GG	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88797_A_56513	NW_004516364.1	scaffold1055	56513	AA	GG	GG	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88798_A_56600	NW_004516364.1	scaffold1055	56600	GG	TT	TT	INTRON	101507065	GDSL esterase/lipase At5g45910-like
SNP_88799_A_105658	NW_004516364.1	scaffold1055	105658	GG	AA	AA	INTERGENIC		
SNP_88800_A_118567	NW_004516364.1	scaffold1055	118567	AA	GG	GG	INTERGENIC		
SNP_88801_A_118577	NW_004516364.1	scaffold1055	118577	TT	CC	CC	INTERGENIC		
SNP_88802_A_121116	NW_004516364.1	scaffold1055	121116	CC	TT	TT	INTERGENIC		
SNP_88803_A_121155	NW_004516364.1	scaffold1055	121155	AA	GG	GG	INTERGENIC		
SNP_88804_A_122906	NW_004516364.1	scaffold1055	122906	GG	CC	CC	INTERGENIC		
SNP_88805_A_122911	NW_004516364.1	scaffold1055	122911	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88806_A_122970	NW_004516364.1	scaffold1055	122970	GG	TT	TT	INTERGENIC		
SNP_88807_A_129012	NW_004516364.1	scaffold1055	129012	TT	CC	CC	INTERGENIC		
SNP_88808_A_134651	NW_004516364.1	scaffold1055	134651	CC	GG	GG	INTERGENIC		
SNP_88809_A_137852	NW_004516364.1	scaffold1055	137852	AA	GG	GG	INTERGENIC		
SNP_88810_A_142473	NW_004516364.1	scaffold1055	142473	TT	CC	CC	INTERGENIC		
SNP_88811_A_142679	NW_004516364.1	scaffold1055	142679	CC	TT	TT	INTERGENIC		
SNP_88812_A_142714	NW_004516364.1	scaffold1055	142714	GG	TT	TT	INTERGENIC		
SNP_88813_A_142802	NW_004516364.1	scaffold1055	142802	AA	GG	GG	INTERGENIC		
SNP_88816_A_172207	NW_004516364.1	scaffold1055	172207	TT	CC	CC	INTERGENIC		
SNP_88817_A_172552	NW_004516364.1	scaffold1055	172552	CC	AA	AA	INTERGENIC		
SNP_88818_A_172584	NW_004516364.1	scaffold1055	172584	AA	GG	GG	INTERGENIC		
SNP_88819_A_198301	NW_004516364.1	scaffold1055	198301	GG	TT	TT	INTERGENIC		
SNP_88821_A_198386	NW_004516364.1	scaffold1055	198386	GG	AA	AA	INTERGENIC		
SNP_88822_A_198407	NW_004516364.1	scaffold1055	198407	TT	AA	AA	INTERGENIC		
SNP_88823_A_198413	NW_004516364.1	scaffold1055	198413	CC	TT	TT	INTERGENIC		
SNP_88824_A_198416	NW_004516364.1	scaffold1055	198416	GG	AA	AA	INTERGENIC		
SNP_88825_A_198429	NW_004516364.1	scaffold1055	198429	CC	TT	TT	INTERGENIC		
SNP_88826_A_198436	NW_004516364.1	scaffold1055	198436	TT	CC	CC	INTERGENIC		
SNP_88827_A_198451	NW_004516364.1	scaffold1055	198451	CC	TT	TT	INTERGENIC		
SNP_88828_A_201167	NW_004516364.1	scaffold1055	201167	CC	TT	TT	INTERGENIC		
SNP_88829_A_201198	NW_004516364.1	scaffold1055	201198	TT	CC	CC	INTERGENIC		
SNP_88830_A_205825	NW_004516364.1	scaffold1055	205825	CC	TT	TT	INTRON	101509503	GDSL esterase/lipase At5g45910-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88832_A_213482	NW_004516364.1	scaffold1055	213482	TT	CC	CC	INTERGENIC		
SNP_88833_A_213514	NW_004516364.1	scaffold1055	213514	AA	TT	TT	INTERGENIC		
SNP_88834_A_218173	NW_004516364.1	scaffold1055	218173	TT	CC	CC	INTERGENIC		
SNP_88835_A_218223	NW_004516364.1	scaffold1055	218223	CC	TT	TT	INTERGENIC		
SNP_88836_A_280528	NW_004516364.1	scaffold1055	280528	TT	AA	AA	INTERGENIC		
SNP_88837_A_290341	NW_004516364.1	scaffold1055	290341	TT	GG	GG	INTERGENIC		
SNP_88838_A_290342	NW_004516364.1	scaffold1055	290342	TT	GG	GG	INTERGENIC		
SNP_88839_A_318220	NW_004516364.1	scaffold1055	318220	GG	TT	TT	NON_SYNONYMOUS_CODING	101509824	cucumis-in-like
SNP_88840_A_318328	NW_004516364.1	scaffold1055	318328	AA	CC	CC	INTRON	101509824	cucumis-in-like
SNP_88841_A_318393	NW_004516364.1	scaffold1055	318393	TT	AA	AA	NON_SYNONYMOUS_CODING	101509824	cucumis-in-like
SNP_88842_A_318433	NW_004516364.1	scaffold1055	318433	AA	GG	GG	NON_SYNONYMOUS_CODING	101509824	cucumis-in-like
SNP_88843_A_318722	NW_004516364.1	scaffold1055	318722	GG	AA	AA	INTRON	101509824	cucumis-in-like
SNP_88844_A_318737	NW_004516364.1	scaffold1055	318737	TT	AA	AA	INTRON	101509824	cucumis-in-like
SNP_88845_A_319404	NW_004516364.1	scaffold1055	319404	AA	GG	GG	NON_SYNONYMOUS_CODING	101509824	cucumis-in-like
SNP_88846_A_335468	NW_004516364.1	scaffold1055	335468	CC	TT	TT	INTERGENIC		
SNP_88847_A_339287	NW_004516364.1	scaffold1055	339287	AA	TT	TT	INTERGENIC		
SNP_88849_A_339340	NW_004516364.1	scaffold1055	339340	TT	AA	AA	INTERGENIC		
SNP_88850_A_339412	NW_004516364.1	scaffold1055	339412	TT	AA	AA	INTERGENIC		
SNP_88851_A_339413	NW_004516364.1	scaffold1055	339413	TT	GG	GG	INTERGENIC		
SNP_88852_A_339470	NW_004516364.1	scaffold1055	339470	AA	GG	GG	INTERGENIC		
SNP_88853_A_339510	NW_004516364.1	scaffold1055	339510	TT	GG	GG	INTERGENIC		
SNP_88854_A_339562	NW_004516364.1	scaffold1055	339562	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88855_A_339590	NW_004516364.1	scaffold1055	339590	CC	TT	TT	INTERGENIC			
SNP_88856_A_339619	NW_004516364.1	scaffold1055	339619	GG	AA	AA	INTERGENIC			
SNP_88857_A_339624	NW_004516364.1	scaffold1055	339624	AA	GG	GG	INTERGENIC			
SNP_88858_A_339717	NW_004516364.1	scaffold1055	339717	TT	AA	AA	INTERGENIC			
SNP_88859_A_339744	NW_004516364.1	scaffold1055	339744	CC	TT	TT	INTERGENIC			
SNP_88860_A_339752	NW_004516364.1	scaffold1055	339752	CC	TT	TT	INTERGENIC			
SNP_88861_A_339776	NW_004516364.1	scaffold1055	339776	AA	GG	GG	INTERGENIC			
SNP_88862_A_339786	NW_004516364.1	scaffold1055	339786	GG	AA	AA	INTERGENIC			
SNP_88863_A_339812	NW_004516364.1	scaffold1055	339812	AA	GG	GG	INTERGENIC			
SNP_88864_A_339831	NW_004516364.1	scaffold1055	339831	TT	AA	AA	INTERGENIC			
SNP_88865_A_339851	NW_004516364.1	scaffold1055	339851	AA	GG	GG	INTERGENIC			
SNP_88866_A_339872	NW_004516364.1	scaffold1055	339872	GG	AA	AA	INTERGENIC			
SNP_88867_A_339932	NW_004516364.1	scaffold1055	339932	AA	TT	TT	INTERGENIC			
SNP_88868_A_340005	NW_004516364.1	scaffold1055	340005	TT	GG	GG	INTERGENIC			
SNP_88870_A_340108	NW_004516364.1	scaffold1055	340108	TT	AA	AA	INTERGENIC			
SNP_88871_A_340136	NW_004516364.1	scaffold1055	340136	AA	GG	GG	INTERGENIC			
SNP_88872_A_340138	NW_004516364.1	scaffold1055	340138	CC	TT	TT	INTERGENIC			
SNP_88873_A_340172	NW_004516364.1	scaffold1055	340172	CC	TT	TT	INTERGENIC			
SNP_88874_A_340328	NW_004516364.1	scaffold1055	340328	GG	AA	AA	INTERGENIC			
SNP_88875_A_340329	NW_004516364.1	scaffold1055	340329	AA	TT	TT	INTERGENIC			
SNP_88876_A_340355	NW_004516364.1	scaffold1055	340355	AA	CC	CC	INTERGENIC			
SNP_88877_A_340393	NW_004516364.1	scaffold1055	340393	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88878_A_340397	NW_004516364.1	scaffold1055	340397	AA	GG	GG	INTERGENIC			
SNP_88880_A_340545	NW_004516364.1	scaffold1055	340545	TT	CC	CC	INTERGENIC			
SNP_88881_A_340581	NW_004516364.1	scaffold1055	340581	TT	CC	CC	INTERGENIC			
SNP_88882_A_340602	NW_004516364.1	scaffold1055	340602	TT	CC	CC	INTERGENIC			
SNP_88884_A_340743	NW_004516364.1	scaffold1055	340743	TT	AA	AA	INTERGENIC			
SNP_88885_A_340774	NW_004516364.1	scaffold1055	340774	TT	GG	GG	INTERGENIC			
SNP_88886_A_340786	NW_004516364.1	scaffold1055	340786	AA	GG	GG	INTERGENIC			
SNP_88887_A_340824	NW_004516364.1	scaffold1055	340824	TT	CC	CC	INTERGENIC			
SNP_88888_A_340841	NW_004516364.1	scaffold1055	340841	TT	CC	CC	INTERGENIC			
SNP_88889_A_340847	NW_004516364.1	scaffold1055	340847	CC	TT	TT	INTERGENIC			
SNP_88890_A_341143	NW_004516364.1	scaffold1055	341143	AA	GG	GG	INTERGENIC			
SNP_88891_A_341159	NW_004516364.1	scaffold1055	341159	CC	TT	TT	INTERGENIC			
SNP_88892_A_341181	NW_004516364.1	scaffold1055	341181	GG	AA	AA	INTERGENIC			
SNP_88893_A_341198	NW_004516364.1	scaffold1055	341198	TT	CC	CC	INTERGENIC			
SNP_88894_A_341207	NW_004516364.1	scaffold1055	341207	GG	TT	TT	INTERGENIC			
SNP_88895_A_341251	NW_004516364.1	scaffold1055	341251	AA	GG	GG	INTERGENIC			
SNP_88896_A_341288	NW_004516364.1	scaffold1055	341288	TT	CC	CC	INTERGENIC			
SNP_88897_A_341298	NW_004516364.1	scaffold1055	341298	TT	AA	AA	INTERGENIC			
SNP_88898_A_341323	NW_004516364.1	scaffold1055	341323	GG	AA	AA	INTERGENIC			
SNP_88899_A_3678	NW_004516365.1	scaffold1056	3678	AA	GG	GG	INTERGENIC			
SNP_88900_A_3734	NW_004516365.1	scaffold1056	3734	AA	TT	TT	INTERGENIC			
SNP_88901_A_15371	NW_004516365.1	scaffold1056	15371	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88902_A_23308	NW_004516365.1	scaffold1056	23308	AA	CC	CC	NON_SYNONYMOUS_CODING	101511008	Unknown function
SNP_88903_A_27173	NW_004516365.1	scaffold1056	27173	AA	GG	GG	NON_SYNONYMOUS_CODING	101511008	Unknown function
SNP_88904_A_68045	NW_004516365.1	scaffold1056	68045	GG	TT	TT	INTERGENIC		
SNP_88907_A_126901	NW_004516365.1	scaffold1056	126901	CC	TT	TT	INTERGENIC		
SNP_88908_A_127552	NW_004516365.1	scaffold1056	127552	AA	TT	TT	INTERGENIC		
SNP_88909_A_127554	NW_004516365.1	scaffold1056	127554	CC	AA	AA	INTERGENIC		
SNP_88910_A_128944	NW_004516365.1	scaffold1056	128944	TT	AA	AA	INTERGENIC		
SNP_88911_A_129342	NW_004516365.1	scaffold1056	129342	CC	TT	TT	INTERGENIC		
SNP_88912_A_133896	NW_004516365.1	scaffold1056	133896	GG	AA	AA	INTERGENIC		
SNP_88917_A_160105	NW_004516365.1	scaffold1056	160105	CC	TT	TT	INTERGENIC		
SNP_88918_A_1993	NW_004516368.1	scaffold1059	1993	TT	GG	GG	INTERGENIC		
SNP_88919_A_511	NW_004516369.1	scaffold1060	511	CC	TT	TT	INTERGENIC		
SNP_88920_A_567	NW_004516369.1	scaffold1060	567	AA	GG	GG	INTERGENIC		
SNP_88922_A_641	NW_004516369.1	scaffold1060	641	GG	AA	AA	INTERGENIC		
SNP_88923_A_671	NW_004516369.1	scaffold1060	671	TT	CC	CC	INTERGENIC		
SNP_88924_A_724	NW_004516369.1	scaffold1060	724	TT	CC	CC	INTERGENIC		
SNP_88925_A_725	NW_004516369.1	scaffold1060	725	CC	TT	TT	INTERGENIC		
SNP_88926_A_731	NW_004516369.1	scaffold1060	731	TT	CC	CC	INTERGENIC		
SNP_88927_A_732	NW_004516369.1	scaffold1060	732	CC	TT	TT	INTERGENIC		
SNP_88928_A_809	NW_004516369.1	scaffold1060	809	TT	AA	AA	INTERGENIC		
SNP_88929_A_810	NW_004516369.1	scaffold1060	810	CC	AA	AA	INTERGENIC		
SNP_88930_A_821	NW_004516369.1	scaffold1060	821	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88931_A_856	NW_004516369.1	scaffold1060	856	AA	GG	GG	INTERGENIC		
SNP_88932_A_922	NW_004516369.1	scaffold1060	922	GG	TT	TT	INTERGENIC		
SNP_88933_A_958	NW_004516369.1	scaffold1060	958	CC	TT	TT	INTERGENIC		
SNP_88934_A_1115	NW_004516369.1	scaffold1060	1115	GG	CC	CC	INTERGENIC		
SNP_88936_A_24468	NW_004516369.1	scaffold1060	24468	AA	TT	TT	URR	101512626	aspartokinase 2, chloroplastic-like
SNP_88937_A_24471	NW_004516369.1	scaffold1060	24471	AA	CC	CC	URR	101512626	aspartokinase 2, chloroplastic-like
SNP_88938_A_33274	NW_004516369.1	scaffold1060	33274	GG	AA	AA	INTERGENIC		
SNP_88939_A_33333	NW_004516369.1	scaffold1060	33333	GG	AA	AA	INTERGENIC		
SNP_88941_A_141826	NW_004516369.1	scaffold1060	141826	GG	TT	TT	URR	101488961	protein FAR1-RELATED SEQUENCE 5-like
SNP_88942_A_169809	NW_004516369.1	scaffold1060	169809	GG	TT	TT	INTERGENIC		
SNP_88943_A_169878	NW_004516369.1	scaffold1060	169878	GG	CC	CC	INTERGENIC		
SNP_88944_A_170054	NW_004516369.1	scaffold1060	170054	TT	CC	CC	INTERGENIC		
SNP_88945_A_170224	NW_004516369.1	scaffold1060	170224	GG	TT	TT	INTERGENIC		
SNP_88946_A_170228	NW_004516369.1	scaffold1060	170228	TT	GG	GG	INTERGENIC		
SNP_88947_A_170252	NW_004516369.1	scaffold1060	170252	CC	AA	AA	INTERGENIC		
SNP_88948_A_170273	NW_004516369.1	scaffold1060	170273	GG	AA	AA	INTERGENIC		
SNP_88949_A_170344	NW_004516369.1	scaffold1060	170344	AA	GG	GG	INTERGENIC		
SNP_88950_A_170347	NW_004516369.1	scaffold1060	170347	TT	CC	CC	INTERGENIC		
SNP_88951_A_170398	NW_004516369.1	scaffold1060	170398	CC	TT	TT	INTERGENIC		
SNP_88952_A_170469	NW_004516369.1	scaffold1060	170469	AA	GG	GG	INTERGENIC		
SNP_88953_A_170480	NW_004516369.1	scaffold1060	170480	AA	GG	GG	INTERGENIC		
SNP_88954_A_170533	NW_004516369.1	scaffold1060	170533	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_88955_A_340008	NW_004516369.1	scaffold1060	340008	GG	AA	AA	INTERGENIC		
SNP_88956_A_346747	NW_004516369.1	scaffold1060	346747	AA	GG	GG	INTERGENIC		
SNP_88958_A_378946	NW_004516369.1	scaffold1060	378946	CC	TT	TT	INTERGENIC		
SNP_88959_A_389439	NW_004516369.1	scaffold1060	389439	TT	CC	CC	INTRON	101492526	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840
SNP_88960_A_389524	NW_004516369.1	scaffold1060	389524	TT	CC	CC	INTRON	101492526	probable leucine-rich repeat receptor-like serine/threonine-protein kinase At3g14840
SNP_88962_A_400380	NW_004516369.1	scaffold1060	400380	AA	TT	TT	DRR	101515214	isoflavone 7-O-glucosyltransferase 1-like
SNP_88963_A_450045	NW_004516369.1	scaffold1060	450045	TT	AA	AA	INTERGENIC		
SNP_88964_A_1909	NW_004516370.1	scaffold1061	1909	TT	CC	CC	INTERGENIC		
SNP_88965_A_2014	NW_004516370.1	scaffold1061	2014	CC	GG	GG	INTERGENIC		
SNP_88966_A_2015	NW_004516370.1	scaffold1061	2015	CC	GG	GG	INTERGENIC		
SNP_88967_A_2069	NW_004516370.1	scaffold1061	2069	GG	AA	AA	INTERGENIC		
SNP_88968_A_2355	NW_004516370.1	scaffold1061	2355	AA	GG	GG	INTERGENIC		
SNP_88969_A_4292	NW_004516370.1	scaffold1061	4292	TT	CC	CC	INTERGENIC		
SNP_88970_A_4295	NW_004516370.1	scaffold1061	4295	AA	GG	GG	INTERGENIC		
SNP_88971_A_6096	NW_004516370.1	scaffold1061	6096	AA	GG	GG	INTERGENIC		
SNP_88972_A_6356	NW_004516370.1	scaffold1061	6356	AA	CC	CC	INTERGENIC		
SNP_88973_A_9573	NW_004516370.1	scaffold1061	9573	GG	AA	AA	INTERGENIC		
SNP_88974_A_9644	NW_004516370.1	scaffold1061	9644	TT	GG	GG	INTERGENIC		
SNP_88975_A_11488	NW_004516370.1	scaffold1061	11488	AA	TT	TT	INTERGENIC		
SNP_88976_A_11530	NW_004516370.1	scaffold1061	11530	TT	CC	CC	INTERGENIC		
SNP_88977_A_11550	NW_004516370.1	scaffold1061	11550	GG	CC	CC	INTERGENIC		
SNP_88978_A_11681	NW_004516370.1	scaffold1061	11681	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_88979_A_11686	NW_004516370.1	scaffold1061	11686	CC	TT	TT	INTERGENIC			
SNP_88980_A_11745	NW_004516370.1	scaffold1061	11745	GG	AA	AA	INTERGENIC			
SNP_88981_A_12072	NW_004516370.1	scaffold1061	12072	CC	TT	TT	INTERGENIC			
SNP_88982_A_20892	NW_004516370.1	scaffold1061	20892	GG	AA	AA	INTERGENIC			
SNP_88983_A_20910	NW_004516370.1	scaffold1061	20910	TT	CC	CC	INTERGENIC			
SNP_88986_A_27636	NW_004516370.1	scaffold1061	27636	CC	TT	TT	INTERGENIC			
SNP_88988_A_28578	NW_004516370.1	scaffold1061	28578	AA	GG	GG	INTERGENIC			
SNP_88989_A_28605	NW_004516370.1	scaffold1061	28605	GG	AA	AA	INTERGENIC			
SNP_88990_A_28606	NW_004516370.1	scaffold1061	28606	TT	AA	AA	INTERGENIC			
SNP_88991_A_28624	NW_004516370.1	scaffold1061	28624	TT	CC	CC	INTERGENIC			
SNP_88992_A_28829	NW_004516370.1	scaffold1061	28829	TT	GG	GG	INTERGENIC			
SNP_88993_A_28859	NW_004516370.1	scaffold1061	28859	CC	AA	AA	INTERGENIC			
SNP_88994_A_31722	NW_004516370.1	scaffold1061	31722	TT	CC	CC	INTERGENIC			
SNP_88995_A_31732	NW_004516370.1	scaffold1061	31732	CC	GG	GG	INTERGENIC			
SNP_88996_A_31888	NW_004516370.1	scaffold1061	31888	TT	GG	GG	INTERGENIC			
SNP_88997_A_31900	NW_004516370.1	scaffold1061	31900	GG	TT	TT	INTERGENIC			
SNP_88998_A_32128	NW_004516370.1	scaffold1061	32128	TT	CC	CC	INTERGENIC			
SNP_88999_A_32302	NW_004516370.1	scaffold1061	32302	AA	GG	GG	INTERGENIC			
SNP_89000_A_32358	NW_004516370.1	scaffold1061	32358	TT	CC	CC	INTERGENIC			
SNP_89001_A_32625	NW_004516370.1	scaffold1061	32625	TT	AA	AA	INTERGENIC			
SNP_89002_A_32858	NW_004516370.1	scaffold1061	32858	AA	GG	GG	INTERGENIC			
SNP_89004_A_32907	NW_004516370.1	scaffold1061	32907	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89005_A_32935	NW_004516370.1	scaffold1061	32935	TT	CC	CC	INTERGENIC			
SNP_89006_A_32941	NW_004516370.1	scaffold1061	32941	AA	GG	GG	INTERGENIC			
SNP_89007_A_32972	NW_004516370.1	scaffold1061	32972	TT	CC	CC	INTERGENIC			
SNP_89008_A_32975	NW_004516370.1	scaffold1061	32975	TT	AA	AA	INTERGENIC			
SNP_89009_A_33022	NW_004516370.1	scaffold1061	33022	TT	CC	CC	INTERGENIC			
SNP_89010_A_33049	NW_004516370.1	scaffold1061	33049	GG	CC	CC	INTERGENIC			
SNP_89011_A_33192	NW_004516370.1	scaffold1061	33192	AA	GG	GG	INTERGENIC			
SNP_89012_A_33278	NW_004516370.1	scaffold1061	33278	TT	CC	CC	INTERGENIC			
SNP_89013_A_33347	NW_004516370.1	scaffold1061	33347	AA	TT	TT	INTERGENIC			
SNP_89014_A_33379	NW_004516370.1	scaffold1061	33379	AA	GG	GG	INTERGENIC			
SNP_89015_A_36106	NW_004516370.1	scaffold1061	36106	AA	TT	TT	INTERGENIC			
SNP_89016_A_36161	NW_004516370.1	scaffold1061	36161	CC	TT	TT	INTERGENIC			
SNP_89017_A_36162	NW_004516370.1	scaffold1061	36162	TT	CC	CC	INTERGENIC			
SNP_89018_A_36198	NW_004516370.1	scaffold1061	36198	CC	TT	TT	INTERGENIC			
SNP_89019_A_36231	NW_004516370.1	scaffold1061	36231	TT	AA	AA	INTERGENIC			
SNP_89020_A_36337	NW_004516370.1	scaffold1061	36337	GG	AA	AA	INTERGENIC			
SNP_89021_A_36469	NW_004516370.1	scaffold1061	36469	GG	AA	AA	INTERGENIC			
SNP_89022_A_36477	NW_004516370.1	scaffold1061	36477	TT	CC	CC	INTERGENIC			
SNP_89023_A_36478	NW_004516370.1	scaffold1061	36478	GG	AA	AA	INTERGENIC			
SNP_89024_A_36568	NW_004516370.1	scaffold1061	36568	CC	AA	AA	INTERGENIC			
SNP_89025_A_36732	NW_004516370.1	scaffold1061	36732	CC	TT	TT	INTERGENIC			
SNP_89026_A_39736	NW_004516370.1	scaffold1061	39736	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89027_A_39834	NW_004516370.1	scaffold1061	39834	TT	CC	CC	INTERGENIC			
SNP_89028_A_39884	NW_004516370.1	scaffold1061	39884	AA	GG	GG	INTERGENIC			
SNP_89029_A_39947	NW_004516370.1	scaffold1061	39947	GG	TT	TT	INTERGENIC			
SNP_89030_A_40079	NW_004516370.1	scaffold1061	40079	TT	CC	CC	INTERGENIC			
SNP_89031_A_41200	NW_004516370.1	scaffold1061	41200	AA	CC	CC	INTERGENIC			
SNP_89032_A_42364	NW_004516370.1	scaffold1061	42364	TT	CC	CC	INTERGENIC			
SNP_89033_A_46224	NW_004516370.1	scaffold1061	46224	AA	GG	GG	INTERGENIC			
SNP_89034_A_46439	NW_004516370.1	scaffold1061	46439	GG	TT	TT	INTERGENIC			
SNP_89035_A_49599	NW_004516370.1	scaffold1061	49599	CC	AA	AA	INTERGENIC			
SNP_89036_A_49638	NW_004516370.1	scaffold1061	49638	AA	GG	GG	INTERGENIC			
SNP_89037_A_49665	NW_004516370.1	scaffold1061	49665	GG	TT	TT	INTERGENIC			
SNP_89038_A_49674	NW_004516370.1	scaffold1061	49674	AA	TT	TT	INTERGENIC			
SNP_89039_A_49683	NW_004516370.1	scaffold1061	49683	AA	TT	TT	INTERGENIC			
SNP_89041_A_49942	NW_004516370.1	scaffold1061	49942	GG	AA	AA	INTERGENIC			
SNP_89042_A_51011	NW_004516370.1	scaffold1061	51011	CC	TT	TT	INTERGENIC			
SNP_89043_A_51033	NW_004516370.1	scaffold1061	51033	CC	TT	TT	INTERGENIC			
SNP_89044_A_51273	NW_004516370.1	scaffold1061	51273	CC	TT	TT	INTERGENIC			
SNP_89045_A_51378	NW_004516370.1	scaffold1061	51378	TT	GG	GG	INTERGENIC			
SNP_89046_A_51466	NW_004516370.1	scaffold1061	51466	AA	TT	TT	INTERGENIC			
SNP_89047_A_51479	NW_004516370.1	scaffold1061	51479	CC	TT	TT	INTERGENIC			
SNP_89048_A_51746	NW_004516370.1	scaffold1061	51746	TT	CC	CC	INTERGENIC			
SNP_89049_A_52411	NW_004516370.1	scaffold1061	52411	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89050_A_60187	NW_004516370.1	scaffold1061	60187	TT	AA	AA	INTERGENIC			
SNP_89051_A_62047	NW_004516370.1	scaffold1061	62047	CC	GG	GG	INTERGENIC			
SNP_89052_A_63358	NW_004516370.1	scaffold1061	63358	AA	GG	GG	INTERGENIC			
SNP_89053_A_64079	NW_004516370.1	scaffold1061	64079	GG	CC	CC	INTERGENIC			
SNP_89054_A_64115	NW_004516370.1	scaffold1061	64115	GG	AA	AA	INTERGENIC			
SNP_89055_A_64145	NW_004516370.1	scaffold1061	64145	AA	TT	TT	INTERGENIC			
SNP_89056_A_64499	NW_004516370.1	scaffold1061	64499	TT	CC	CC	INTERGENIC			
SNP_89057_A_65072	NW_004516370.1	scaffold1061	65072	CC	TT	TT	INTERGENIC			
SNP_89058_A_67146	NW_004516370.1	scaffold1061	67146	GG	AA	AA	INTERGENIC			
SNP_89059_A_67173	NW_004516370.1	scaffold1061	67173	AA	TT	TT	INTERGENIC			
SNP_89060_A_67430	NW_004516370.1	scaffold1061	67430	GG	AA	AA	INTERGENIC			
SNP_89061_A_67438	NW_004516370.1	scaffold1061	67438	GG	AA	AA	INTERGENIC			
SNP_89062_A_67497	NW_004516370.1	scaffold1061	67497	CC	TT	TT	INTERGENIC			
SNP_89063_A_67527	NW_004516370.1	scaffold1061	67527	CC	TT	TT	INTERGENIC			
SNP_89064_A_67710	NW_004516370.1	scaffold1061	67710	TT	CC	CC	INTERGENIC			
SNP_89065_A_67720	NW_004516370.1	scaffold1061	67720	GG	CC	CC	INTERGENIC			
SNP_89066_A_67749	NW_004516370.1	scaffold1061	67749	GG	AA	AA	INTERGENIC			
SNP_89067_A_70031	NW_004516370.1	scaffold1061	70031	AA	CC	CC	INTERGENIC			
SNP_89068_A_70043	NW_004516370.1	scaffold1061	70043	AA	GG	GG	INTERGENIC			
SNP_89069_A_70666	NW_004516370.1	scaffold1061	70666	CC	GG	GG	INTERGENIC			
SNP_89070_A_70842	NW_004516370.1	scaffold1061	70842	TT	GG	GG	INTERGENIC			
SNP_89071_A_70902	NW_004516370.1	scaffold1061	70902	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89072_A_70928	NW_004516370.1	scaffold1061	70928	AA	CC	CC	INTERGENIC			
SNP_89073_A_70961	NW_004516370.1	scaffold1061	70961	AA	TT	TT	INTERGENIC			
SNP_89074_A_71016	NW_004516370.1	scaffold1061	71016	CC	TT	TT	INTERGENIC			
SNP_89075_A_71029	NW_004516370.1	scaffold1061	71029	AA	CC	CC	INTERGENIC			
SNP_89076_A_71206	NW_004516370.1	scaffold1061	71206	AA	GG	GG	INTERGENIC			
SNP_89077_A_71265	NW_004516370.1	scaffold1061	71265	TT	AA	AA	INTERGENIC			
SNP_89078_A_71327	NW_004516370.1	scaffold1061	71327	GG	CC	CC	INTERGENIC			
SNP_89079_A_71335	NW_004516370.1	scaffold1061	71335	AA	CC	CC	INTERGENIC			
SNP_89080_A_71463	NW_004516370.1	scaffold1061	71463	CC	GG	GG	INTERGENIC			
SNP_89081_A_71464	NW_004516370.1	scaffold1061	71464	AA	GG	GG	INTERGENIC			
SNP_89082_A_71487	NW_004516370.1	scaffold1061	71487	TT	AA	AA	INTERGENIC			
SNP_89083_A_71497	NW_004516370.1	scaffold1061	71497	AA	TT	TT	INTERGENIC			
SNP_89084_A_71507	NW_004516370.1	scaffold1061	71507	GG	AA	AA	INTERGENIC			
SNP_89085_A_71650	NW_004516370.1	scaffold1061	71650	TT	AA	AA	INTERGENIC			
SNP_89086_A_71660	NW_004516370.1	scaffold1061	71660	AA	TT	TT	INTERGENIC			
SNP_89087_A_71670	NW_004516370.1	scaffold1061	71670	GG	AA	AA	INTERGENIC			
SNP_89088_A_71719	NW_004516370.1	scaffold1061	71719	GG	CC	CC	INTERGENIC			
SNP_89089_A_71721	NW_004516370.1	scaffold1061	71721	GG	TT	TT	INTERGENIC			
SNP_89090_A_72036	NW_004516370.1	scaffold1061	72036	TT	CC	CC	INTERGENIC			
SNP_89091_A_72056	NW_004516370.1	scaffold1061	72056	GG	AA	AA	INTERGENIC			
SNP_89092_A_72139	NW_004516370.1	scaffold1061	72139	CC	AA	AA	INTERGENIC			
SNP_89093_A_72150	NW_004516370.1	scaffold1061	72150	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89094_A_72166	NW_004516370.1	scaffold1061	72166	TT	GG	GG	INTERGENIC			
SNP_89095_A_72167	NW_004516370.1	scaffold1061	72167	GG	AA	AA	INTERGENIC			
SNP_89096_A_72171	NW_004516370.1	scaffold1061	72171	TT	AA	AA	INTERGENIC			
SNP_89097_A_72224	NW_004516370.1	scaffold1061	72224	AA	CC	CC	INTERGENIC			
SNP_89098_A_72273	NW_004516370.1	scaffold1061	72273	AA	GG	GG	INTERGENIC			
SNP_89099_A_72599	NW_004516370.1	scaffold1061	72599	AA	GG	GG	INTERGENIC			
SNP_89100_A_72604	NW_004516370.1	scaffold1061	72604	CC	TT	TT	INTERGENIC			
SNP_89101_A_72670	NW_004516370.1	scaffold1061	72670	GG	CC	CC	INTERGENIC			
SNP_89102_A_72700	NW_004516370.1	scaffold1061	72700	CC	GG	GG	INTERGENIC			
SNP_89103_A_72979	NW_004516370.1	scaffold1061	72979	AA	GG	GG	INTERGENIC			
SNP_89104_A_73021	NW_004516370.1	scaffold1061	73021	TT	GG	GG	INTERGENIC			
SNP_89105_A_73060	NW_004516370.1	scaffold1061	73060	CC	GG	GG	INTERGENIC			
SNP_89106_A_73086	NW_004516370.1	scaffold1061	73086	TT	CC	CC	INTERGENIC			
SNP_89107_A_73439	NW_004516370.1	scaffold1061	73439	CC	TT	TT	INTERGENIC			
SNP_89108_A_74407	NW_004516370.1	scaffold1061	74407	CC	AA	AA	INTERGENIC			
SNP_89109_A_74410	NW_004516370.1	scaffold1061	74410	TT	CC	CC	INTERGENIC			
SNP_89110_A_74444	NW_004516370.1	scaffold1061	74444	AA	TT	TT	INTERGENIC			
SNP_89111_A_74565	NW_004516370.1	scaffold1061	74565	GG	CC	CC	INTERGENIC			
SNP_89112_A_74668	NW_004516370.1	scaffold1061	74668	TT	GG	GG	INTERGENIC			
SNP_89113_A_74676	NW_004516370.1	scaffold1061	74676	TT	CC	CC	INTERGENIC			
SNP_89114_A_74687	NW_004516370.1	scaffold1061	74687	GG	AA	AA	INTERGENIC			
SNP_89115_A_74725	NW_004516370.1	scaffold1061	74725	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89116_A_74796	NW_004516370.1	scaffold1061	74796	GG	AA	AA	INTERGENIC			
SNP_89117_A_74802	NW_004516370.1	scaffold1061	74802	GG	AA	AA	INTERGENIC			
SNP_89118_A_74816	NW_004516370.1	scaffold1061	74816	TT	CC	CC	INTERGENIC			
SNP_89119_A_74825	NW_004516370.1	scaffold1061	74825	CC	GG	GG	INTERGENIC			
SNP_89120_A_74933	NW_004516370.1	scaffold1061	74933	TT	CC	CC	INTERGENIC			
SNP_89121_A_74946	NW_004516370.1	scaffold1061	74946	TT	AA	AA	INTERGENIC			
SNP_89122_A_74966	NW_004516370.1	scaffold1061	74966	AA	TT	TT	INTERGENIC			
SNP_89123_A_75026	NW_004516370.1	scaffold1061	75026	GG	AA	AA	INTERGENIC			
SNP_89124_A_75037	NW_004516370.1	scaffold1061	75037	CC	TT	TT	INTERGENIC			
SNP_89125_A_75051	NW_004516370.1	scaffold1061	75051	TT	CC	CC	INTERGENIC			
SNP_89126_A_75055	NW_004516370.1	scaffold1061	75055	CC	AA	AA	INTERGENIC			
SNP_89127_A_75093	NW_004516370.1	scaffold1061	75093	CC	AA	AA	INTERGENIC			
SNP_89128_A_75168	NW_004516370.1	scaffold1061	75168	CC	TT	TT	INTERGENIC			
SNP_89129_A_75172	NW_004516370.1	scaffold1061	75172	TT	CC	CC	INTERGENIC			
SNP_89130_A_75202	NW_004516370.1	scaffold1061	75202	AA	GG	GG	INTERGENIC			
SNP_89131_A_75361	NW_004516370.1	scaffold1061	75361	AA	TT	TT	INTERGENIC			
SNP_89132_A_75404	NW_004516370.1	scaffold1061	75404	TT	CC	CC	INTERGENIC			
SNP_89133_A_75438	NW_004516370.1	scaffold1061	75438	TT	GG	GG	INTERGENIC			
SNP_89134_A_75478	NW_004516370.1	scaffold1061	75478	CC	AA	AA	INTERGENIC			
SNP_89135_A_75562	NW_004516370.1	scaffold1061	75562	CC	TT	TT	INTERGENIC			
SNP_89136_A_75566	NW_004516370.1	scaffold1061	75566	AA	GG	GG	INTERGENIC			
SNP_89138_A_77003	NW_004516370.1	scaffold1061	77003	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89139_A_77066	NW_004516370.1	scaffold1061	77066	AA	CC	CC	INTERGENIC		
SNP_89140_A_77248	NW_004516370.1	scaffold1061	77248	AA	CC	CC	INTERGENIC		
SNP_89141_A_78219	NW_004516370.1	scaffold1061	78219	AA	CC	CC	INTERGENIC		
SNP_89142_A_78402	NW_004516370.1	scaffold1061	78402	CC	TT	TT	INTERGENIC		
SNP_89143_A_78410	NW_004516370.1	scaffold1061	78410	TT	CC	CC	INTERGENIC		
SNP_89144_A_78450	NW_004516370.1	scaffold1061	78450	CC	TT	TT	INTERGENIC		
SNP_89145_A_6225	NW_004516372.1	scaffold1065	6225	TT	CC	CC	INTERGENIC		
SNP_89146_A_6470	NW_004516372.1	scaffold1065	6470	AA	GG	GG	INTERGENIC		
SNP_89147_A_6475	NW_004516372.1	scaffold1065	6475	TT	AA	AA	INTERGENIC		
SNP_89148_A_6483	NW_004516372.1	scaffold1065	6483	TT	CC	CC	INTERGENIC		
SNP_89149_A_6793	NW_004516372.1	scaffold1065	6793	GG	TT	TT	INTERGENIC		
SNP_89150_A_6850	NW_004516372.1	scaffold1065	6850	CC	TT	TT	INTERGENIC		
SNP_89151_A_23552	NW_004516372.1	scaffold1065	23552	GG	TT	TT	INTERGENIC		
SNP_89152_A_42572	NW_004516372.1	scaffold1065	42572	GG	TT	TT	INTRON	101494365	uncharacterized LOC101494365
SNP_89153_A_95566	NW_004516372.1	scaffold1065	95566	TT	CC	CC	INTERGENIC		
SNP_89154_A_99804	NW_004516372.1	scaffold1065	99804	AA	TT	TT	INTERGENIC		
SNP_89155_A_99805	NW_004516372.1	scaffold1065	99805	AA	TT	TT	INTERGENIC		
SNP_89156_A_165252	NW_004516372.1	scaffold1065	165252	CC	AA	AA	INTERGENIC		
SNP_89157_A_165563	NW_004516372.1	scaffold1065	165563	CC	TT	TT	INTERGENIC		
SNP_89158_A_1097	NW_004516373.1	scaffold1066	1097	AA	GG	GG	INTERGENIC		
SNP_89159_A_764	NW_004516374.1	scaffold1067	764	TT	CC	CC	INTERGENIC		
SNP_89160_A_818	NW_004516374.1	scaffold1067	818	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89161_A_819	NW_004516374.1	scaffold1067	819	AA	GG	GG	INTERGENIC			
SNP_89162_A_927	NW_004516374.1	scaffold1067	927	TT	CC	CC	INTERGENIC			
SNP_89163_A_1097	NW_004516374.1	scaffold1067	1097	CC	TT	TT	INTERGENIC			
SNP_89164_A_1099	NW_004516374.1	scaffold1067	1099	AA	GG	GG	INTERGENIC			
SNP_89165_A_1100	NW_004516374.1	scaffold1067	1100	CC	TT	TT	INTERGENIC			
SNP_89166_A_1409	NW_004516374.1	scaffold1067	1409	AA	GG	GG	INTERGENIC			
SNP_89167_A_1731	NW_004516374.1	scaffold1067	1731	CC	TT	TT	INTERGENIC			
SNP_89168_A_1935	NW_004516374.1	scaffold1067	1935	CC	AA	AA	INTERGENIC			
SNP_89169_A_2149	NW_004516374.1	scaffold1067	2149	GG	AA	AA	INTERGENIC			
SNP_89170_A_16678	NW_004516374.1	scaffold1067	16678	GG	CC	CC	INTERGENIC			
SNP_89171_A_18762	NW_004516374.1	scaffold1067	18762	AA	CC	CC	INTERGENIC			
SNP_89172_A_18782	NW_004516374.1	scaffold1067	18782	GG	AA	AA	INTERGENIC			
SNP_89173_A_18803	NW_004516374.1	scaffold1067	18803	TT	CC	CC	INTERGENIC			
SNP_89174_A_18891	NW_004516374.1	scaffold1067	18891	GG	AA	AA	INTERGENIC			
SNP_89175_A_18909	NW_004516374.1	scaffold1067	18909	TT	CC	CC	INTERGENIC			
SNP_89176_A_18914	NW_004516374.1	scaffold1067	18914	GG	TT	TT	INTERGENIC			
SNP_89177_A_19099	NW_004516374.1	scaffold1067	19099	TT	CC	CC	INTERGENIC			
SNP_89178_A_19110	NW_004516374.1	scaffold1067	19110	CC	TT	TT	INTERGENIC			
SNP_89179_A_19120	NW_004516374.1	scaffold1067	19120	AA	TT	TT	INTERGENIC			
SNP_89180_A_19127	NW_004516374.1	scaffold1067	19127	GG	AA	AA	INTERGENIC			
SNP_89181_A_20666	NW_004516374.1	scaffold1067	20666	CC	TT	TT	INTERGENIC			
SNP_89182_A_20808	NW_004516374.1	scaffold1067	20808	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89183_A_20813	NW_004516374.1	scaffold1067	20813	GG	TT	TT	INTERGENIC		
SNP_89184_A_69030	NW_004516374.1	scaffold1067	69030	CC	TT	TT	INTERGENIC		
SNP_89185_A_117886	NW_004516374.1	scaffold1067	117886	AA	CC	CC	INTERGENIC		
SNP_89186_A_117888	NW_004516374.1	scaffold1067	117888	AA	GG	GG	INTERGENIC		
SNP_89187_A_155326	NW_004516374.1	scaffold1067	155326	GG	CC	CC	INTERGENIC		
SNP_89188_A_188722	NW_004516374.1	scaffold1067	188722	CC	AA	AA	INTERGENIC		
SNP_89189_A_189058	NW_004516374.1	scaffold1067	189058	AA	TT	TT	INTERGENIC		
SNP_89190_A_190197	NW_004516374.1	scaffold1067	190197	GG	TT	TT	INTERGENIC		
SNP_89191_A_190205	NW_004516374.1	scaffold1067	190205	TT	GG	GG	INTERGENIC		
SNP_89192_A_190230	NW_004516374.1	scaffold1067	190230	AA	GG	GG	INTERGENIC		
SNP_89193_A_190253	NW_004516374.1	scaffold1067	190253	TT	CC	CC	INTERGENIC		
SNP_89194_A_190612	NW_004516374.1	scaffold1067	190612	GG	AA	AA	INTERGENIC		
SNP_89196_A_190869	NW_004516374.1	scaffold1067	190869	GG	AA	AA	INTERGENIC		
SNP_89197_A_191331	NW_004516374.1	scaffold1067	191331	AA	CC	CC	INTERGENIC		
SNP_89198_A_191334	NW_004516374.1	scaffold1067	191334	AA	GG	GG	INTERGENIC		
SNP_89199_A_191349	NW_004516374.1	scaffold1067	191349	TT	CC	CC	INTERGENIC		
SNP_89200_A_195980	NW_004516374.1	scaffold1067	195980	AA	TT	TT	DRR	101496746	Unknown function
SNP_89201_A_195996	NW_004516374.1	scaffold1067	195996	GG	TT	TT	DRR	101496746	Unknown function
SNP_89202_A_196147	NW_004516374.1	scaffold1067	196147	AA	GG	GG	DRR	101496746	Unknown function
SNP_89204_A_203031	NW_004516374.1	scaffold1067	203031	GG	CC	CC	INTERGENIC		
SNP_89205_A_203038	NW_004516374.1	scaffold1067	203038	GG	TT	TT	INTERGENIC		
SNP_89206_A_203042	NW_004516374.1	scaffold1067	203042	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89208_A_203049	NW_004516374.1	scaffold1067	203049	AA	GG	GG	INTERGENIC		
SNP_89209_A_203064	NW_004516374.1	scaffold1067	203064	AA	TT	TT	INTERGENIC		
SNP_89211_A_203221	NW_004516374.1	scaffold1067	203221	CC	TT	TT	INTERGENIC		
SNP_89212_A_206876	NW_004516374.1	scaffold1067	206876	CC	AA	AA	INTERGENIC		
SNP_89213_A_209167	NW_004516374.1	scaffold1067	209167	CC	TT	TT	INTERGENIC		
SNP_89214_A_214022	NW_004516374.1	scaffold1067	214022	TT	GG	GG	DRR	101497055	Unknown function
SNP_89215_A_214039	NW_004516374.1	scaffold1067	214039	TT	CC	CC	DRR	101497055	Unknown function
SNP_89216_A_214070	NW_004516374.1	scaffold1067	214070	TT	CC	CC	DRR	101497055	Unknown function
SNP_89217_A_214071	NW_004516374.1	scaffold1067	214071	AA	GG	GG	DRR	101497055	Unknown function
SNP_89218_A_214104	NW_004516374.1	scaffold1067	214104	TT	GG	GG	DRR	101497055	Unknown function
SNP_89219_A_214142	NW_004516374.1	scaffold1067	214142	TT	GG	GG	DRR	101497055	Unknown function
SNP_89220_A_214158	NW_004516374.1	scaffold1067	214158	GG	AA	AA	DRR	101497055	Unknown function
SNP_89221_A_214197	NW_004516374.1	scaffold1067	214197	TT	CC	CC	DRR	101497055	Unknown function
SNP_89222_A_214243	NW_004516374.1	scaffold1067	214243	TT	CC	CC	DRR	101497055	Unknown function
SNP_89223_A_214283	NW_004516374.1	scaffold1067	214283	TT	AA	AA	DRR	101497055	Unknown function
SNP_89224_A_214286	NW_004516374.1	scaffold1067	214286	AA	GG	GG	DRR	101497055	Unknown function
SNP_89225_A_214306	NW_004516374.1	scaffold1067	214306	TT	GG	GG	DRR	101497055	Unknown function
SNP_89226_A_214314	NW_004516374.1	scaffold1067	214314	TT	GG	GG	DRR	101497055	Unknown function
SNP_89228_A_214383	NW_004516374.1	scaffold1067	214383	CC	GG	GG	DRR	101497055	Unknown function
SNP_89229_A_214475	NW_004516374.1	scaffold1067	214475	CC	AA	AA	DRR	101497055	Unknown function
SNP_89230_A_222226	NW_004516374.1	scaffold1067	222226	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89231_A_222290	NW_004516374.1	scaffold1067	222290	AA	TT	TT	INTRON	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89232_A_222305	NW_004516374.1	scaffold1067	222305	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89233_A_222311	NW_004516374.1	scaffold1067	222311	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89234_A_222332	NW_004516374.1	scaffold1067	222332	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89235_A_222338	NW_004516374.1	scaffold1067	222338	CC	TT	TT	INTRON	101497055	Unknown function
SNP_89236_A_222362	NW_004516374.1	scaffold1067	222362	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89237_A_222370	NW_004516374.1	scaffold1067	222370	GG	CC	CC	INTRON	101497055	Unknown function
SNP_89238_A_222391	NW_004516374.1	scaffold1067	222391	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89239_A_222395	NW_004516374.1	scaffold1067	222395	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89240_A_222396	NW_004516374.1	scaffold1067	222396	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89241_A_222399	NW_004516374.1	scaffold1067	222399	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89242_A_222402	NW_004516374.1	scaffold1067	222402	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89243_A_222506	NW_004516374.1	scaffold1067	222506	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89244_A_222568	NW_004516374.1	scaffold1067	222568	TT	GG	GG	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89245_A_222574	NW_004516374.1	scaffold1067	222574	TT	CC	CC	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89246_A_222584	NW_004516374.1	scaffold1067	222584	TT	CC	CC	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89247_A_222626	NW_004516374.1	scaffold1067	222626	TT	CC	CC	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89248_A_222628	NW_004516374.1	scaffold1067	222628	TT	GG	GG	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89249_A_222652	NW_004516374.1	scaffold1067	222652	AA	GG	GG	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89250_A_222872	NW_004516374.1	scaffold1067	222872	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89252_A_230143	NW_004516374.1	scaffold1067	230143	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89253_A_235117	NW_004516374.1	scaffold1067	235117	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89254_A_235124	NW_004516374.1	scaffold1067	235124	TT	GG	GG	INTRON	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89255_A_235130	NW_004516374.1	scaffold1067	235130	GG	AA	AA	INTRON	101497055	Unknown function
SNP_89256_A_235166	NW_004516374.1	scaffold1067	235166	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89257_A_235171	NW_004516374.1	scaffold1067	235171	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89258_A_235173	NW_004516374.1	scaffold1067	235173	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89259_A_235179	NW_004516374.1	scaffold1067	235179	CC	AA	AA	INTRON	101497055	Unknown function
SNP_89260_A_235247	NW_004516374.1	scaffold1067	235247	CC	AA	AA	INTRON	101497055	Unknown function
SNP_89261_A_235248	NW_004516374.1	scaffold1067	235248	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89262_A_235264	NW_004516374.1	scaffold1067	235264	AA	CC	CC	INTRON	101497055	Unknown function
SNP_89263_A_235275	NW_004516374.1	scaffold1067	235275	AA	TT	TT	INTRON	101497055	Unknown function
SNP_89264_A_235279	NW_004516374.1	scaffold1067	235279	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89265_A_235283	NW_004516374.1	scaffold1067	235283	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89266_A_235291	NW_004516374.1	scaffold1067	235291	TT	AA	AA	INTRON	101497055	Unknown function
SNP_89267_A_235310	NW_004516374.1	scaffold1067	235310	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89268_A_235319	NW_004516374.1	scaffold1067	235319	GG	AA	AA	INTRON	101497055	Unknown function
SNP_89269_A_235365	NW_004516374.1	scaffold1067	235365	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89270_A_235372	NW_004516374.1	scaffold1067	235372	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89271_A_235459	NW_004516374.1	scaffold1067	235459	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89272_A_235463	NW_004516374.1	scaffold1067	235463	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89273_A_235467	NW_004516374.1	scaffold1067	235467	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89274_A_235487	NW_004516374.1	scaffold1067	235487	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89275_A_235496	NW_004516374.1	scaffold1067	235496	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89276_A_235501	NW_004516374.1	scaffold1067	235501	TT	CC	CC	INTRON	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89277_A_235554	NW_004516374.1	scaffold1067	235554	TT	AA	AA	INTRON	101497055	Unknown function
SNP_89278_A_235570	NW_004516374.1	scaffold1067	235570	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89279_A_235595	NW_004516374.1	scaffold1067	235595	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89280_A_235616	NW_004516374.1	scaffold1067	235616	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89281_A_235664	NW_004516374.1	scaffold1067	235664	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89282_A_235668	NW_004516374.1	scaffold1067	235668	GG	CC	CC	INTRON	101497055	Unknown function
SNP_89283_A_235681	NW_004516374.1	scaffold1067	235681	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89284_A_235702	NW_004516374.1	scaffold1067	235702	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89285_A_235728	NW_004516374.1	scaffold1067	235728	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89286_A_235748	NW_004516374.1	scaffold1067	235748	CC	GG	GG	INTRON	101497055	Unknown function
SNP_89287_A_235771	NW_004516374.1	scaffold1067	235771	AA	CC	CC	INTRON	101497055	Unknown function
SNP_89288_A_235818	NW_004516374.1	scaffold1067	235818	AA	TT	TT	INTRON	101497055	Unknown function
SNP_89289_A_235830	NW_004516374.1	scaffold1067	235830	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89290_A_235832	NW_004516374.1	scaffold1067	235832	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89291_A_235852	NW_004516374.1	scaffold1067	235852	GG	CC	CC	INTRON	101497055	Unknown function
SNP_89292_A_235861	NW_004516374.1	scaffold1067	235861	TT	AA	AA	INTRON	101497055	Unknown function
SNP_89293_A_235882	NW_004516374.1	scaffold1067	235882	AA	CC	CC	INTRON	101497055	Unknown function
SNP_89294_A_235907	NW_004516374.1	scaffold1067	235907	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89295_A_235918	NW_004516374.1	scaffold1067	235918	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89296_A_235953	NW_004516374.1	scaffold1067	235953	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89297_A_235954	NW_004516374.1	scaffold1067	235954	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89298_A_235982	NW_004516374.1	scaffold1067	235982	TT	CC	CC	INTRON	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89299_A_235991	NW_004516374.1	scaffold1067	235991	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89300_A_236026	NW_004516374.1	scaffold1067	236026	TT	AA	AA	INTRON	101497055	Unknown function
SNP_89301_A_236035	NW_004516374.1	scaffold1067	236035	TT	GG	GG	INTRON	101497055	Unknown function
SNP_89302_A_236058	NW_004516374.1	scaffold1067	236058	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89303_A_236079	NW_004516374.1	scaffold1067	236079	AA	GG	GG	INTRON	101497055	Unknown function
SNP_89304_A_236134	NW_004516374.1	scaffold1067	236134	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89305_A_236137	NW_004516374.1	scaffold1067	236137	TT	CC	CC	INTRON	101497055	Unknown function
SNP_89306_A_236198	NW_004516374.1	scaffold1067	236198	AA	GG	GG	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89307_A_236209	NW_004516374.1	scaffold1067	236209	TT	CC	CC	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89308_A_236270	NW_004516374.1	scaffold1067	236270	TT	CC	CC	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89309_A_236320	NW_004516374.1	scaffold1067	236320	AA	GG	GG	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89310_A_236326	NW_004516374.1	scaffold1067	236326	TT	GG	GG	SYNONYMOUS_CODING	101497055	Unknown function
SNP_89311_A_236416	NW_004516374.1	scaffold1067	236416	TT	GG	GG	NON_SYNONYMOUS_CODING	101497055	Unknown function
SNP_89312_A_236419	NW_004516374.1	scaffold1067	236419	AA	GG	GG	INTERGENIC		
SNP_89313_A_236482	NW_004516374.1	scaffold1067	236482	TT	GG	GG	INTERGENIC		
SNP_89314_A_236503	NW_004516374.1	scaffold1067	236503	AA	CC	CC	INTERGENIC		
SNP_89315_A_236550	NW_004516374.1	scaffold1067	236550	AA	CC	CC	INTERGENIC		
SNP_89316_A_236574	NW_004516374.1	scaffold1067	236574	AA	GG	GG	URR	101497055	Unknown function
SNP_89317_A_236576	NW_004516374.1	scaffold1067	236576	AA	GG	GG	URR	101497055	Unknown function
SNP_89318_A_236584	NW_004516374.1	scaffold1067	236584	AA	GG	GG	URR	101497055	Unknown function
SNP_89319_A_236585	NW_004516374.1	scaffold1067	236585	TT	CC	CC	URR	101497055	Unknown function
SNP_89320_A_236597	NW_004516374.1	scaffold1067	236597	CC	AA	AA	URR	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89321_A_236612	NW_004516374.1	scaffold1067	236612	AA	GG	GG	URR	101497055	Unknown function
SNP_89322_A_236650	NW_004516374.1	scaffold1067	236650	AA	GG	GG	URR	101497055	Unknown function
SNP_89323_A_236657	NW_004516374.1	scaffold1067	236657	TT	CC	CC	URR	101497055	Unknown function
SNP_89324_A_236675	NW_004516374.1	scaffold1067	236675	TT	GG	GG	URR	101497055	Unknown function
SNP_89325_A_236690	NW_004516374.1	scaffold1067	236690	TT	GG	GG	URR	101497055	Unknown function
SNP_89326_A_236691	NW_004516374.1	scaffold1067	236691	AA	GG	GG	URR	101497055	Unknown function
SNP_89327_A_236713	NW_004516374.1	scaffold1067	236713	CC	TT	TT	URR	101497055	Unknown function
SNP_89328_A_236715	NW_004516374.1	scaffold1067	236715	TT	CC	CC	URR	101497055	Unknown function
SNP_89329_A_236727	NW_004516374.1	scaffold1067	236727	AA	CC	CC	URR	101497055	Unknown function
SNP_89330_A_236801	NW_004516374.1	scaffold1067	236801	AA	GG	GG	URR	101497055	Unknown function
SNP_89331_A_236804	NW_004516374.1	scaffold1067	236804	AA	GG	GG	URR	101497055	Unknown function
SNP_89332_A_236814	NW_004516374.1	scaffold1067	236814	GG	AA	AA	URR	101497055	Unknown function
SNP_89333_A_236834	NW_004516374.1	scaffold1067	236834	AA	CC	CC	URR	101497055	Unknown function
SNP_89334_A_236871	NW_004516374.1	scaffold1067	236871	TT	CC	CC	URR	101497055	Unknown function
SNP_89335_A_236903	NW_004516374.1	scaffold1067	236903	TT	CC	CC	URR	101497055	Unknown function
SNP_89336_A_236951	NW_004516374.1	scaffold1067	236951	CC	GG	GG	URR	101497055	Unknown function
SNP_89337_A_236952	NW_004516374.1	scaffold1067	236952	AA	TT	TT	URR	101497055	Unknown function
SNP_89338_A_236989	NW_004516374.1	scaffold1067	236989	CC	TT	TT	URR	101497055	Unknown function
SNP_89339_A_236992	NW_004516374.1	scaffold1067	236992	AA	GG	GG	URR	101497055	Unknown function
SNP_89340_A_237022	NW_004516374.1	scaffold1067	237022	TT	CC	CC	URR	101497055	Unknown function
SNP_89341_A_237055	NW_004516374.1	scaffold1067	237055	GG	TT	TT	URR	101497055	Unknown function
SNP_89342_A_237071	NW_004516374.1	scaffold1067	237071	AA	GG	GG	URR	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89343_A_237106	NW_004516374.1	scaffold1067	237106	TT	AA	AA	URR	101497055	Unknown function
SNP_89344_A_237109	NW_004516374.1	scaffold1067	237109	AA	CC	CC	URR	101497055	Unknown function
SNP_89345_A_237127	NW_004516374.1	scaffold1067	237127	AA	GG	GG	URR	101497055	Unknown function
SNP_89346_A_237152	NW_004516374.1	scaffold1067	237152	TT	AA	AA	URR	101497055	Unknown function
SNP_89347_A_237154	NW_004516374.1	scaffold1067	237154	AA	GG	GG	URR	101497055	Unknown function
SNP_89348_A_237188	NW_004516374.1	scaffold1067	237188	TT	CC	CC	URR	101497055	Unknown function
SNP_89349_A_237240	NW_004516374.1	scaffold1067	237240	TT	CC	CC	URR	101497055	Unknown function
SNP_89350_A_237269	NW_004516374.1	scaffold1067	237269	AA	CC	CC	URR	101497055	Unknown function
SNP_89351_A_237306	NW_004516374.1	scaffold1067	237306	AA	CC	CC	URR	101497055	Unknown function
SNP_89352_A_237311	NW_004516374.1	scaffold1067	237311	GG	AA	AA	URR	101497055	Unknown function
SNP_89353_A_237325	NW_004516374.1	scaffold1067	237325	TT	CC	CC	URR	101497055	Unknown function
SNP_89354_A_237334	NW_004516374.1	scaffold1067	237334	AA	GG	GG	URR	101497055	Unknown function
SNP_89355_A_237339	NW_004516374.1	scaffold1067	237339	TT	CC	CC	URR	101497055	Unknown function
SNP_89356_A_237340	NW_004516374.1	scaffold1067	237340	TT	AA	AA	URR	101497055	Unknown function
SNP_89357_A_237395	NW_004516374.1	scaffold1067	237395	GG	AA	AA	URR	101497055	Unknown function
SNP_89358_A_237506	NW_004516374.1	scaffold1067	237506	AA	GG	GG	URR	101497055	Unknown function
SNP_89359_A_237509	NW_004516374.1	scaffold1067	237509	AA	CC	CC	URR	101497055	Unknown function
SNP_89360_A_237510	NW_004516374.1	scaffold1067	237510	TT	CC	CC	URR	101497055	Unknown function
SNP_89361_A_237518	NW_004516374.1	scaffold1067	237518	AA	GG	GG	URR	101497055	Unknown function
SNP_89362_A_237528	NW_004516374.1	scaffold1067	237528	TT	AA	AA	URR	101497055	Unknown function
SNP_89363_A_237536	NW_004516374.1	scaffold1067	237536	TT	CC	CC	URR	101497055	Unknown function
SNP_89364_A_237537	NW_004516374.1	scaffold1067	237537	CC	TT	TT	URR	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89365_A_237569	NW_004516374.1	scaffold1067	237569	AA	GG	GG	URR	101497055	Unknown function
SNP_89366_A_237597	NW_004516374.1	scaffold1067	237597	AA	CC	CC	URR	101497055	Unknown function
SNP_89367_A_237637	NW_004516374.1	scaffold1067	237637	TT	CC	CC	URR	101497055	Unknown function
SNP_89368_A_237645	NW_004516374.1	scaffold1067	237645	TT	AA	AA	URR	101497055	Unknown function
SNP_89369_A_237655	NW_004516374.1	scaffold1067	237655	TT	CC	CC	URR	101497055	Unknown function
SNP_89370_A_237669	NW_004516374.1	scaffold1067	237669	TT	GG	GG	URR	101497055	Unknown function
SNP_89371_A_237701	NW_004516374.1	scaffold1067	237701	GG	TT	TT	URR	101497055	Unknown function
SNP_89372_A_237769	NW_004516374.1	scaffold1067	237769	AA	GG	GG	URR	101497055	Unknown function
SNP_89373_A_237789	NW_004516374.1	scaffold1067	237789	AA	GG	GG	URR	101497055	Unknown function
SNP_89374_A_237793	NW_004516374.1	scaffold1067	237793	AA	GG	GG	URR	101497055	Unknown function
SNP_89375_A_237871	NW_004516374.1	scaffold1067	237871	TT	CC	CC	URR	101497055	Unknown function
SNP_89376_A_237893	NW_004516374.1	scaffold1067	237893	AA	TT	TT	URR	101497055	Unknown function
SNP_89377_A_237948	NW_004516374.1	scaffold1067	237948	AA	GG	GG	URR	101497055	Unknown function
SNP_89378_A_238009	NW_004516374.1	scaffold1067	238009	TT	GG	GG	URR	101497055	Unknown function
SNP_89379_A_238078	NW_004516374.1	scaffold1067	238078	TT	GG	GG	URR	101497055	Unknown function
SNP_89380_A_238087	NW_004516374.1	scaffold1067	238087	CC	AA	AA	URR	101497055	Unknown function
SNP_89381_A_238139	NW_004516374.1	scaffold1067	238139	TT	CC	CC	URR	101497055	Unknown function
SNP_89382_A_238163	NW_004516374.1	scaffold1067	238163	CC	AA	AA	URR	101497055	Unknown function
SNP_89383_A_238208	NW_004516374.1	scaffold1067	238208	TT	AA	AA	URR	101497055	Unknown function
SNP_89384_A_238222	NW_004516374.1	scaffold1067	238222	CC	GG	GG	URR	101497055	Unknown function
SNP_89385_A_238238	NW_004516374.1	scaffold1067	238238	AA	CC	CC	URR	101497055	Unknown function
SNP_89386_A_238263	NW_004516374.1	scaffold1067	238263	AA	CC	CC	URR	101497055	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89387_A_238282	NW_004516374.1	scaffold1067	238282	AA	GG	GG	URR	101497055	Unknown function
SNP_89388_A_238324	NW_004516374.1	scaffold1067	238324	TT	CC	CC	URR	101497055	Unknown function
SNP_89389_A_238331	NW_004516374.1	scaffold1067	238331	AA	GG	GG	URR	101497055	Unknown function
SNP_89390_A_238411	NW_004516374.1	scaffold1067	238411	TT	GG	GG	URR	101497055	Unknown function
SNP_89391_A_238429	NW_004516374.1	scaffold1067	238429	TT	GG	GG	URR	101497055	Unknown function
SNP_89392_A_238442	NW_004516374.1	scaffold1067	238442	TT	CC	CC	URR	101497055	Unknown function
SNP_89393_A_238473	NW_004516374.1	scaffold1067	238473	CC	GG	GG	URR	101497055	Unknown function
SNP_89394_A_238546	NW_004516374.1	scaffold1067	238546	GG	AA	AA	URR	101497055	Unknown function
SNP_89395_A_238547	NW_004516374.1	scaffold1067	238547	TT	CC	CC	URR	101497055	Unknown function
SNP_89396_A_238576	NW_004516374.1	scaffold1067	238576	AA	GG	GG	INTERGENIC		
SNP_89397_A_238614	NW_004516374.1	scaffold1067	238614	AA	CC	CC	INTERGENIC		
SNP_89398_A_238944	NW_004516374.1	scaffold1067	238944	AA	CC	CC	INTERGENIC		
SNP_89399_A_238965	NW_004516374.1	scaffold1067	238965	CC	AA	AA	INTERGENIC		
SNP_89400_A_239002	NW_004516374.1	scaffold1067	239002	CC	AA	AA	INTERGENIC		
SNP_89401_A_239043	NW_004516374.1	scaffold1067	239043	TT	CC	CC	INTERGENIC		
SNP_89402_A_239045	NW_004516374.1	scaffold1067	239045	AA	GG	GG	INTERGENIC		
SNP_89403_A_239047	NW_004516374.1	scaffold1067	239047	CC	GG	GG	INTERGENIC		
SNP_89404_A_239064	NW_004516374.1	scaffold1067	239064	TT	CC	CC	INTERGENIC		
SNP_89405_A_239100	NW_004516374.1	scaffold1067	239100	TT	CC	CC	INTERGENIC		
SNP_89406_A_239150	NW_004516374.1	scaffold1067	239150	AA	CC	CC	INTERGENIC		
SNP_89407_A_239157	NW_004516374.1	scaffold1067	239157	CC	AA	AA	INTERGENIC		
SNP_89408_A_239234	NW_004516374.1	scaffold1067	239234	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89409_A_239253	NW_004516374.1	scaffold1067	239253	TT	CC	CC	INTERGENIC			
SNP_89410_A_239302	NW_004516374.1	scaffold1067	239302	TT	CC	CC	INTERGENIC			
SNP_89411_A_239304	NW_004516374.1	scaffold1067	239304	TT	CC	CC	INTERGENIC			
SNP_89412_A_239339	NW_004516374.1	scaffold1067	239339	TT	CC	CC	INTERGENIC			
SNP_89413_A_239395	NW_004516374.1	scaffold1067	239395	TT	GG	GG	INTERGENIC			
SNP_89414_A_239396	NW_004516374.1	scaffold1067	239396	AA	GG	GG	INTERGENIC			
SNP_89415_A_239434	NW_004516374.1	scaffold1067	239434	GG	CC	CC	INTERGENIC			
SNP_89416_A_239450	NW_004516374.1	scaffold1067	239450	AA	GG	GG	INTERGENIC			
SNP_89417_A_239492	NW_004516374.1	scaffold1067	239492	AA	CC	CC	INTERGENIC			
SNP_89418_A_239493	NW_004516374.1	scaffold1067	239493	AA	CC	CC	INTERGENIC			
SNP_89419_A_239552	NW_004516374.1	scaffold1067	239552	TT	GG	GG	INTERGENIC			
SNP_89420_A_239553	NW_004516374.1	scaffold1067	239553	TT	CC	CC	INTERGENIC			
SNP_89421_A_239595	NW_004516374.1	scaffold1067	239595	TT	AA	AA	INTERGENIC			
SNP_89422_A_239647	NW_004516374.1	scaffold1067	239647	TT	GG	GG	INTERGENIC			
SNP_89423_A_239688	NW_004516374.1	scaffold1067	239688	TT	CC	CC	INTERGENIC			
SNP_89424_A_239706	NW_004516374.1	scaffold1067	239706	AA	GG	GG	INTERGENIC			
SNP_89425_A_239742	NW_004516374.1	scaffold1067	239742	AA	GG	GG	INTERGENIC			
SNP_89426_A_239844	NW_004516374.1	scaffold1067	239844	TT	CC	CC	INTERGENIC			
SNP_89427_A_239845	NW_004516374.1	scaffold1067	239845	TT	CC	CC	INTERGENIC			
SNP_89428_A_239852	NW_004516374.1	scaffold1067	239852	AA	CC	CC	INTERGENIC			
SNP_89429_A_239857	NW_004516374.1	scaffold1067	239857	AA	CC	CC	INTERGENIC			
SNP_89430_A_239884	NW_004516374.1	scaffold1067	239884	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89431_A_239891	NW_004516374.1	scaffold1067	239891	TT	GG	GG	INTERGENIC			
SNP_89432_A_239895	NW_004516374.1	scaffold1067	239895	AA	GG	GG	INTERGENIC			
SNP_89433_A_239952	NW_004516374.1	scaffold1067	239952	AA	CC	CC	INTERGENIC			
SNP_89434_A_240002	NW_004516374.1	scaffold1067	240002	CC	TT	TT	INTERGENIC			
SNP_89435_A_240035	NW_004516374.1	scaffold1067	240035	TT	GG	GG	INTERGENIC			
SNP_89436_A_240039	NW_004516374.1	scaffold1067	240039	GG	TT	TT	INTERGENIC			
SNP_89437_A_240049	NW_004516374.1	scaffold1067	240049	TT	GG	GG	INTERGENIC			
SNP_89438_A_240054	NW_004516374.1	scaffold1067	240054	TT	GG	GG	INTERGENIC			
SNP_89439_A_240062	NW_004516374.1	scaffold1067	240062	TT	CC	CC	INTERGENIC			
SNP_89440_A_240087	NW_004516374.1	scaffold1067	240087	TT	CC	CC	INTERGENIC			
SNP_89441_A_240106	NW_004516374.1	scaffold1067	240106	AA	GG	GG	INTERGENIC			
SNP_89442_A_240122	NW_004516374.1	scaffold1067	240122	AA	GG	GG	INTERGENIC			
SNP_89443_A_240144	NW_004516374.1	scaffold1067	240144	TT	GG	GG	INTERGENIC			
SNP_89444_A_240145	NW_004516374.1	scaffold1067	240145	TT	CC	CC	INTERGENIC			
SNP_89445_A_240150	NW_004516374.1	scaffold1067	240150	TT	CC	CC	INTERGENIC			
SNP_89446_A_240249	NW_004516374.1	scaffold1067	240249	TT	CC	CC	DRR	101498385	Unknown function	
SNP_89447_A_240262	NW_004516374.1	scaffold1067	240262	AA	TT	TT	DRR	101498385	Unknown function	
SNP_89448_A_240320	NW_004516374.1	scaffold1067	240320	AA	GG	GG	DRR	101498385	Unknown function	
SNP_89449_A_240329	NW_004516374.1	scaffold1067	240329	AA	GG	GG	DRR	101498385	Unknown function	
SNP_89450_A_240347	NW_004516374.1	scaffold1067	240347	TT	CC	CC	DRR	101498385	Unknown function	
SNP_89451_A_240368	NW_004516374.1	scaffold1067	240368	TT	GG	GG	DRR	101498385	Unknown function	
SNP_89452_A_240401	NW_004516374.1	scaffold1067	240401	TT	GG	GG	DRR	101498385	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89453_A_240412	NW_004516374.1	scaffold1067	240412	AA	GG	GG	DRR	101498385	Unknown function
SNP_89454_A_240468	NW_004516374.1	scaffold1067	240468	AA	GG	GG	DRR	101498385	Unknown function
SNP_89455_A_240483	NW_004516374.1	scaffold1067	240483	AA	GG	GG	DRR	101498385	Unknown function
SNP_89456_A_240513	NW_004516374.1	scaffold1067	240513	AA	GG	GG	DRR	101498385	Unknown function
SNP_89457_A_240521	NW_004516374.1	scaffold1067	240521	TT	CC	CC	DRR	101498385	Unknown function
SNP_89458_A_240527	NW_004516374.1	scaffold1067	240527	TT	CC	CC	DRR	101498385	Unknown function
SNP_89459_A_240539	NW_004516374.1	scaffold1067	240539	TT	CC	CC	DRR	101498385	Unknown function
SNP_89460_A_240575	NW_004516374.1	scaffold1067	240575	GG	TT	TT	DRR	101498385	Unknown function
SNP_89461_A_240588	NW_004516374.1	scaffold1067	240588	TT	GG	GG	DRR	101498385	Unknown function
SNP_89462_A_240607	NW_004516374.1	scaffold1067	240607	TT	GG	GG	DRR	101498385	Unknown function
SNP_89463_A_240640	NW_004516374.1	scaffold1067	240640	AA	GG	GG	DRR	101498385	Unknown function
SNP_89464_A_240647	NW_004516374.1	scaffold1067	240647	GG	AA	AA	DRR	101498385	Unknown function
SNP_89465_A_240658	NW_004516374.1	scaffold1067	240658	GG	CC	CC	DRR	101498385	Unknown function
SNP_89466_A_240688	NW_004516374.1	scaffold1067	240688	TT	CC	CC	DRR	101498385	Unknown function
SNP_89467_A_240704	NW_004516374.1	scaffold1067	240704	AA	GG	GG	DRR	101498385	Unknown function
SNP_89468_A_240718	NW_004516374.1	scaffold1067	240718	TT	CC	CC	DRR	101498385	Unknown function
SNP_89469_A_240749	NW_004516374.1	scaffold1067	240749	TT	AA	AA	DRR	101498385	Unknown function
SNP_89470_A_240779	NW_004516374.1	scaffold1067	240779	TT	CC	CC	DRR	101498385	Unknown function
SNP_89471_A_240790	NW_004516374.1	scaffold1067	240790	TT	CC	CC	DRR	101498385	Unknown function
SNP_89472_A_240856	NW_004516374.1	scaffold1067	240856	GG	CC	CC	DRR	101498385	Unknown function
SNP_89473_A_240862	NW_004516374.1	scaffold1067	240862	CC	AA	AA	DRR	101498385	Unknown function
SNP_89474_A_240869	NW_004516374.1	scaffold1067	240869	TT	CC	CC	DRR	101498385	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89475_A_240876	NW_004516374.1	scaffold1067	240876	TT	CC	CC	DRR	101498385	Unknown function
SNP_89476_A_240879	NW_004516374.1	scaffold1067	240879	TT	CC	CC	DRR	101498385	Unknown function
SNP_89477_A_240913	NW_004516374.1	scaffold1067	240913	TT	CC	CC	DRR	101498385	Unknown function
SNP_89478_A_240923	NW_004516374.1	scaffold1067	240923	AA	GG	GG	DRR	101498385	Unknown function
SNP_89479_A_241069	NW_004516374.1	scaffold1067	241069	AA	GG	GG	DRR	101498385	Unknown function
SNP_89480_A_241106	NW_004516374.1	scaffold1067	241106	TT	CC	CC	DRR	101498385	Unknown function
SNP_89481_A_241112	NW_004516374.1	scaffold1067	241112	AA	GG	GG	DRR	101498385	Unknown function
SNP_89482_A_241132	NW_004516374.1	scaffold1067	241132	TT	CC	CC	DRR	101498385	Unknown function
SNP_89483_A_241162	NW_004516374.1	scaffold1067	241162	TT	GG	GG	DRR	101498385	Unknown function
SNP_89484_A_241166	NW_004516374.1	scaffold1067	241166	CC	GG	GG	DRR	101498385	Unknown function
SNP_89485_A_241170	NW_004516374.1	scaffold1067	241170	TT	CC	CC	DRR	101498385	Unknown function
SNP_89486_A_241469	NW_004516374.1	scaffold1067	241469	CC	GG	GG	INTERGENIC		
SNP_89487_A_241522	NW_004516374.1	scaffold1067	241522	AA	TT	TT	INTERGENIC		
SNP_89488_A_241537	NW_004516374.1	scaffold1067	241537	GG	AA	AA	INTERGENIC		
SNP_89489_A_241539	NW_004516374.1	scaffold1067	241539	TT	GG	GG	INTERGENIC		
SNP_89490_A_241556	NW_004516374.1	scaffold1067	241556	AA	GG	GG	INTERGENIC		
SNP_89491_A_241789	NW_004516374.1	scaffold1067	241789	GG	TT	TT	NON_SYNONYMOUS_CODING	101498385	Unknown function
SNP_89492_A_242762	NW_004516374.1	scaffold1067	242762	AA	CC	CC	URR	101498385	Unknown function
SNP_89493_A_242798	NW_004516374.1	scaffold1067	242798	TT	GG	GG	URR	101498385	Unknown function
SNP_89494_A_242876	NW_004516374.1	scaffold1067	242876	TT	CC	CC	URR	101498385	Unknown function
SNP_89495_A_242926	NW_004516374.1	scaffold1067	242926	AA	GG	GG	URR	101498385	Unknown function
SNP_89497_A_242983	NW_004516374.1	scaffold1067	242983	AA	GG	GG	URR	101498385	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89498_A_243023	NW_004516374.1	scaffold1067	243023	TT	CC	CC	DRR	101497391	Unknown function
SNP_89499_A_243176	NW_004516374.1	scaffold1067	243176	TT	GG	GG	DRR	101497391	Unknown function
SNP_89500_A_243228	NW_004516374.1	scaffold1067	243228	AA	GG	GG	DRR	101497391	Unknown function
SNP_89501_A_243306	NW_004516374.1	scaffold1067	243306	AA	CC	CC	DRR	101497391	Unknown function
SNP_89502_A_243315	NW_004516374.1	scaffold1067	243315	AA	GG	GG	DRR	101497391	Unknown function
SNP_89504_A_243352	NW_004516374.1	scaffold1067	243352	TT	GG	GG	DRR	101497391	Unknown function
SNP_89505_A_243363	NW_004516374.1	scaffold1067	243363	TT	GG	GG	DRR	101497391	Unknown function
SNP_89506_A_243464	NW_004516374.1	scaffold1067	243464	AA	GG	GG	DRR	101497391	Unknown function
SNP_89508_A_243574	NW_004516374.1	scaffold1067	243574	AA	CC	CC	DRR	101497391	Unknown function
SNP_89509_A_243598	NW_004516374.1	scaffold1067	243598	TT	CC	CC	DRR	101497391	Unknown function
SNP_89510_A_243659	NW_004516374.1	scaffold1067	243659	TT	CC	CC	DRR	101497391	Unknown function
SNP_89511_A_243718	NW_004516374.1	scaffold1067	243718	TT	CC	CC	DRR	101497391	Unknown function
SNP_89512_A_243768	NW_004516374.1	scaffold1067	243768	TT	GG	GG	DRR	101497391	Unknown function
SNP_89513_A_243790	NW_004516374.1	scaffold1067	243790	AA	GG	GG	DRR	101497391	Unknown function
SNP_89515_A_243821	NW_004516374.1	scaffold1067	243821	AA	GG	GG	DRR	101497391	Unknown function
SNP_89516_A_243866	NW_004516374.1	scaffold1067	243866	TT	GG	GG	DRR	101497391	Unknown function
SNP_89517_A_243917	NW_004516374.1	scaffold1067	243917	TT	CC	CC	DRR	101497391	Unknown function
SNP_89518_A_243943	NW_004516374.1	scaffold1067	243943	TT	CC	CC	DRR	101497391	Unknown function
SNP_89519_A_244015	NW_004516374.1	scaffold1067	244015	AA	GG	GG	DRR	101497391	Unknown function
SNP_89520_A_244037	NW_004516374.1	scaffold1067	244037	TT	GG	GG	URR	101498385	Unknown function
SNP_89521_A_244043	NW_004516374.1	scaffold1067	244043	AA	CC	CC	URR	101498385	Unknown function
SNP_89522_A_249213	NW_004516374.1	scaffold1067	249213	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89523_A_249239	NW_004516374.1	scaffold1067	249239	TT	CC	CC	INTERGENIC			
SNP_89524_A_249253	NW_004516374.1	scaffold1067	249253	CC	AA	AA	INTERGENIC			
SNP_89525_A_249559	NW_004516374.1	scaffold1067	249559	AA	TT	TT	INTERGENIC			
SNP_89526_A_249572	NW_004516374.1	scaffold1067	249572	TT	CC	CC	INTERGENIC			
SNP_89527_A_249600	NW_004516374.1	scaffold1067	249600	GG	CC	CC	INTERGENIC			
SNP_89528_A_249631	NW_004516374.1	scaffold1067	249631	AA	CC	CC	INTERGENIC			
SNP_89529_A_249633	NW_004516374.1	scaffold1067	249633	TT	CC	CC	INTERGENIC			
SNP_89530_A_249651	NW_004516374.1	scaffold1067	249651	AA	GG	GG	INTERGENIC			
SNP_89531_A_249653	NW_004516374.1	scaffold1067	249653	TT	GG	GG	INTERGENIC			
SNP_89532_A_249664	NW_004516374.1	scaffold1067	249664	AA	GG	GG	INTERGENIC			
SNP_89533_A_249671	NW_004516374.1	scaffold1067	249671	CC	AA	AA	INTERGENIC			
SNP_89534_A_263134	NW_004516374.1	scaffold1067	263134	AA	TT	TT	INTERGENIC			
SNP_89535_A_263142	NW_004516374.1	scaffold1067	263142	TT	CC	CC	INTERGENIC			
SNP_89536_A_263143	NW_004516374.1	scaffold1067	263143	AA	GG	GG	INTERGENIC			
SNP_89537_A_263248	NW_004516374.1	scaffold1067	263248	TT	CC	CC	INTERGENIC			
SNP_89538_A_263253	NW_004516374.1	scaffold1067	263253	GG	CC	CC	INTERGENIC			
SNP_89539_A_263310	NW_004516374.1	scaffold1067	263310	TT	CC	CC	INTERGENIC			
SNP_89540_A_263314	NW_004516374.1	scaffold1067	263314	TT	CC	CC	INTERGENIC			
SNP_89541_A_263319	NW_004516374.1	scaffold1067	263319	AA	GG	GG	INTERGENIC			
SNP_89542_A_263356	NW_004516374.1	scaffold1067	263356	AA	TT	TT	INTERGENIC			
SNP_89543_A_263357	NW_004516374.1	scaffold1067	263357	TT	AA	AA	INTERGENIC			
SNP_89544_A_263362	NW_004516374.1	scaffold1067	263362	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89545_A_263414	NW_004516374.1	scaffold1067	263414	CC	TT	TT	INTERGENIC			
SNP_89546_A_263420	NW_004516374.1	scaffold1067	263420	TT	CC	CC	INTERGENIC			
SNP_89548_A_263591	NW_004516374.1	scaffold1067	263591	AA	GG	GG	INTERGENIC			
SNP_89549_A_263645	NW_004516374.1	scaffold1067	263645	TT	AA	AA	INTERGENIC			
SNP_89550_A_263664	NW_004516374.1	scaffold1067	263664	AA	GG	GG	INTERGENIC			
SNP_89551_A_263675	NW_004516374.1	scaffold1067	263675	AA	GG	GG	INTERGENIC			
SNP_89552_A_263692	NW_004516374.1	scaffold1067	263692	CC	TT	TT	INTERGENIC			
SNP_89553_A_263696	NW_004516374.1	scaffold1067	263696	TT	CC	CC	INTERGENIC			
SNP_89554_A_263776	NW_004516374.1	scaffold1067	263776	TT	CC	CC	INTERGENIC			
SNP_89555_A_263782	NW_004516374.1	scaffold1067	263782	TT	CC	CC	INTERGENIC			
SNP_89556_A_263815	NW_004516374.1	scaffold1067	263815	AA	CC	CC	INTERGENIC			
SNP_89557_A_263823	NW_004516374.1	scaffold1067	263823	AA	GG	GG	INTERGENIC			
SNP_89558_A_263827	NW_004516374.1	scaffold1067	263827	TT	GG	GG	INTERGENIC			
SNP_89559_A_263841	NW_004516374.1	scaffold1067	263841	AA	TT	TT	INTERGENIC			
SNP_89560_A_263866	NW_004516374.1	scaffold1067	263866	TT	CC	CC	INTERGENIC			
SNP_89561_A_263867	NW_004516374.1	scaffold1067	263867	AA	GG	GG	INTERGENIC			
SNP_89562_A_263899	NW_004516374.1	scaffold1067	263899	GG	AA	AA	INTERGENIC			
SNP_89563_A_265633	NW_004516374.1	scaffold1067	265633	TT	CC	CC	INTERGENIC			
SNP_89564_A_265634	NW_004516374.1	scaffold1067	265634	AA	TT	TT	INTERGENIC			
SNP_89565_A_265647	NW_004516374.1	scaffold1067	265647	TT	GG	GG	INTERGENIC			
SNP_89566_A_265654	NW_004516374.1	scaffold1067	265654	TT	AA	AA	INTERGENIC			
SNP_89567_A_265676	NW_004516374.1	scaffold1067	265676	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89568_A_265700	NW_004516374.1	scaffold1067	265700	TT	AA	AA	INTERGENIC			
SNP_89569_A_265702	NW_004516374.1	scaffold1067	265702	AA	GG	GG	INTERGENIC			
SNP_89570_A_265724	NW_004516374.1	scaffold1067	265724	AA	CC	CC	INTERGENIC			
SNP_89571_A_265730	NW_004516374.1	scaffold1067	265730	TT	CC	CC	INTERGENIC			
SNP_89572_A_265732	NW_004516374.1	scaffold1067	265732	AA	GG	GG	INTERGENIC			
SNP_89573_A_265761	NW_004516374.1	scaffold1067	265761	TT	CC	CC	INTERGENIC			
SNP_89574_A_265902	NW_004516374.1	scaffold1067	265902	TT	CC	CC	INTERGENIC			
SNP_89575_A_266037	NW_004516374.1	scaffold1067	266037	AA	GG	GG	INTERGENIC			
SNP_89577_A_266096	NW_004516374.1	scaffold1067	266096	AA	GG	GG	INTERGENIC			
SNP_89578_A_269603	NW_004516374.1	scaffold1067	269603	TT	CC	CC	INTERGENIC			
SNP_89579_A_269626	NW_004516374.1	scaffold1067	269626	TT	GG	GG	INTERGENIC			
SNP_89580_A_1913	NW_004516376.1	scaffold1071	1913	GG	AA	AA	INTERGENIC			
SNP_89581_A_1629	NW_004516377.1	scaffold1072	1629	GG	AA	AA	INTERGENIC			
SNP_89583_A_1734	NW_004516378.1	scaffold1073	1734	GG	AA	AA	INTERGENIC			
SNP_89584_A_20657	NW_004516379.1	scaffold1074	20657	CC	GG	GG	INTERGENIC			
SNP_89585_A_20670	NW_004516379.1	scaffold1074	20670	AA	CC	CC	INTERGENIC			
SNP_89586_A_503	NW_004516380.1	scaffold1076	503	TT	AA	AA	INTERGENIC			
SNP_89587_A_7191	NW_004516380.1	scaffold1076	7191	GG	AA	AA	INTERGENIC			
SNP_89588_A_7196	NW_004516380.1	scaffold1076	7196	GG	AA	AA	INTERGENIC			
SNP_89589_A_7202	NW_004516380.1	scaffold1076	7202	TT	AA	AA	INTERGENIC			
SNP_89590_A_7309	NW_004516380.1	scaffold1076	7309	TT	GG	GG	INTERGENIC			
SNP_89591_A_10753	NW_004516380.1	scaffold1076	10753	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89592_A_10953	NW_004516380.1	scaffold1076	10953	CC	GG	GG	INTERGENIC		
SNP_89593_A_10964	NW_004516380.1	scaffold1076	10964	GG	AA	AA	INTERGENIC		
SNP_89594_A_11054	NW_004516380.1	scaffold1076	11054	GG	AA	AA	INTERGENIC		
SNP_89595_A_11074	NW_004516380.1	scaffold1076	11074	GG	TT	TT	INTERGENIC		
SNP_89596_A_23616	NW_004516380.1	scaffold1076	23616	AA	CC	CC	INTERGENIC		
SNP_89597_A_23771	NW_004516380.1	scaffold1076	23771	TT	GG	GG	INTERGENIC		
SNP_89598_A_24015	NW_004516380.1	scaffold1076	24015	AA	CC	CC	INTERGENIC		
SNP_89599_A_33189	NW_004516380.1	scaffold1076	33189	GG	AA	AA	INTERGENIC		
SNP_89600_A_33224	NW_004516380.1	scaffold1076	33224	TT	GG	GG	INTERGENIC		
SNP_89601_A_38488	NW_004516380.1	scaffold1076	38488	AA	GG	GG	INTERGENIC		
SNP_89602_A_5346	NW_004516382.1	scaffold1080	5346	GG	TT	TT	INTERGENIC		
SNP_89603_A_5392	NW_004516382.1	scaffold1080	5392	AA	GG	GG	INTERGENIC		
SNP_89604_A_5399	NW_004516382.1	scaffold1080	5399	GG	TT	TT	INTERGENIC		
SNP_89605_A_6871	NW_004516382.1	scaffold1080	6871	CC	TT	TT	INTERGENIC		
SNP_89606_A_7194	NW_004516382.1	scaffold1080	7194	GG	AA	AA	INTERGENIC		
SNP_89607_A_26451	NW_004516382.1	scaffold1080	26451	GG	AA	AA	INTERGENIC		
SNP_89608_A_32871	NW_004516382.1	scaffold1080	32871	AA	CC	CC	INTERGENIC		
SNP_89609_A_20726	NW_004516383.1	scaffold1081	20726	AA	GG	GG	INTRON	101499361	protoporphyrinogen oxidase, chloroplastic/mitochondrial
SNP_89611_A_43956	NW_004516383.1	scaffold1081	43956	AA	GG	GG	INTERGENIC		
SNP_89612_A_61492	NW_004516383.1	scaffold1081	61492	AA	GG	GG	INTRON	101499671	probable inactive leucine-rich repeat receptor-like protein kinase At3g03770
SNP_89614_A_86134	NW_004516383.1	scaffold1081	86134	AA	GG	GG	INTERGENIC		
SNP_89615_A_86148	NW_004516383.1	scaffold1081	86148	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89616_A_86157	NW_004516383.1	scaffold1081	86157	GG	AA	AA	INTERGENIC			
SNP_89617_A_86179	NW_004516383.1	scaffold1081	86179	CC	TT	TT	INTERGENIC			
SNP_89618_A_86218	NW_004516383.1	scaffold1081	86218	TT	GG	GG	INTERGENIC			
SNP_89622_A_434	NW_004516384.1	scaffold1082	434	CC	AA	AA	INTERGENIC			
SNP_89623_A_707	NW_004516384.1	scaffold1082	707	AA	TT	TT	INTERGENIC			
SNP_89624_A_832	NW_004516384.1	scaffold1082	832	CC	TT	TT	INTERGENIC			
SNP_89625_A_859	NW_004516384.1	scaffold1082	859	TT	CC	CC	INTERGENIC			
SNP_89626_A_876	NW_004516384.1	scaffold1082	876	AA	GG	GG	INTERGENIC			
SNP_89628_A_19794	NW_004516384.1	scaffold1082	19794	AA	TT	TT	INTERGENIC			
SNP_89629_A_20012	NW_004516384.1	scaffold1082	20012	CC	AA	AA	INTERGENIC			
SNP_89630_A_20062	NW_004516384.1	scaffold1082	20062	TT	GG	GG	INTERGENIC			
SNP_89631_A_20870	NW_004516384.1	scaffold1082	20870	AA	TT	TT	INTERGENIC			
SNP_89632_A_21009	NW_004516384.1	scaffold1082	21009	GG	CC	CC	INTERGENIC			
SNP_89633_A_21096	NW_004516384.1	scaffold1082	21096	CC	GG	GG	INTERGENIC			
SNP_89635_A_21238	NW_004516384.1	scaffold1082	21238	CC	AA	AA	INTERGENIC			
SNP_89636_A_21240	NW_004516384.1	scaffold1082	21240	TT	CC	CC	INTERGENIC			
SNP_89637_A_21350	NW_004516384.1	scaffold1082	21350	TT	CC	CC	INTERGENIC			
SNP_89638_A_21354	NW_004516384.1	scaffold1082	21354	TT	AA	AA	INTERGENIC			
SNP_89639_A_21356	NW_004516384.1	scaffold1082	21356	AA	TT	TT	INTERGENIC			
SNP_89641_A_24505	NW_004516384.1	scaffold1082	24505	TT	CC	CC	INTERGENIC			
SNP_89643_A_27036	NW_004516384.1	scaffold1082	27036	TT	CC	CC	INTERGENIC			
SNP_89644_A_27410	NW_004516384.1	scaffold1082	27410	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89645_A_27597	NW_004516384.1	scaffold1082	27597	TT	AA	AA	INTERGENIC			
SNP_89646_A_27630	NW_004516384.1	scaffold1082	27630	CC	TT	TT	INTERGENIC			
SNP_89647_A_27783	NW_004516384.1	scaffold1082	27783	TT	CC	CC	INTERGENIC			
SNP_89648_A_30885	NW_004516384.1	scaffold1082	30885	TT	AA	AA	INTERGENIC			
SNP_89649_A_31928	NW_004516384.1	scaffold1082	31928	GG	CC	CC	INTERGENIC			
SNP_89650_A_32966	NW_004516384.1	scaffold1082	32966	AA	CC	CC	INTERGENIC			
SNP_89651_A_8889	NW_004516385.1	scaffold1083	8889	AA	CC	CC	INTERGENIC			
SNP_89652_A_8898	NW_004516385.1	scaffold1083	8898	CC	TT	TT	INTERGENIC			
SNP_89653_A_12705	NW_004516385.1	scaffold1083	12705	GG	AA	AA	INTERGENIC			
SNP_89654_A_15278	NW_004516385.1	scaffold1083	15278	TT	CC	CC	INTERGENIC			
SNP_89655_A_23192	NW_004516385.1	scaffold1083	23192	AA	CC	CC	INTERGENIC			
SNP_89656_A_27304	NW_004516385.1	scaffold1083	27304	TT	GG	GG	INTERGENIC			
SNP_89657_A_27349	NW_004516385.1	scaffold1083	27349	CC	TT	TT	INTERGENIC			
SNP_89658_A_27363	NW_004516385.1	scaffold1083	27363	AA	GG	GG	INTERGENIC			
SNP_89659_A_27386	NW_004516385.1	scaffold1083	27386	TT	CC	CC	INTERGENIC			
SNP_89660_A_27390	NW_004516385.1	scaffold1083	27390	TT	CC	CC	INTERGENIC			
SNP_89661_A_27474	NW_004516385.1	scaffold1083	27474	TT	GG	GG	INTERGENIC			
SNP_89662_A_27516	NW_004516385.1	scaffold1083	27516	AA	GG	GG	INTERGENIC			
SNP_89663_A_28096	NW_004516385.1	scaffold1083	28096	GG	AA	AA	INTERGENIC			
SNP_89664_A_67845	NW_004516385.1	scaffold1083	67845	GG	TT	TT	INTERGENIC			
SNP_89666_A_75307	NW_004516385.1	scaffold1083	75307	AA	TT	TT	INTERGENIC			
SNP_89667_A_97158	NW_004516385.1	scaffold1083	97158	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89668_A_97496	NW_004516385.1	scaffold1083	97496	AA	GG	GG	INTERGENIC			
SNP_89669_A_119889	NW_004516385.1	scaffold1083	119889	CC	GG	GG	INTERGENIC			
SNP_89671_A_121970	NW_004516385.1	scaffold1083	121970	GG	TT	TT	INTERGENIC			
SNP_89673_A_122113	NW_004516385.1	scaffold1083	122113	AA	GG	GG	INTERGENIC			
SNP_89674_A_122137	NW_004516385.1	scaffold1083	122137	TT	CC	CC	INTERGENIC			
SNP_89675_A_122170	NW_004516385.1	scaffold1083	122170	AA	CC	CC	INTERGENIC			
SNP_89676_A_122171	NW_004516385.1	scaffold1083	122171	AA	GG	GG	INTERGENIC			
SNP_89677_A_122240	NW_004516385.1	scaffold1083	122240	CC	TT	TT	INTERGENIC			
SNP_89678_A_122279	NW_004516385.1	scaffold1083	122279	GG	CC	CC	INTERGENIC			
SNP_89679_A_122294	NW_004516385.1	scaffold1083	122294	GG	AA	AA	INTERGENIC			
SNP_89680_A_122309	NW_004516385.1	scaffold1083	122309	AA	TT	TT	INTERGENIC			
SNP_89681_A_122362	NW_004516385.1	scaffold1083	122362	GG	AA	AA	INTERGENIC			
SNP_89682_A_122365	NW_004516385.1	scaffold1083	122365	AA	GG	GG	INTERGENIC			
SNP_89683_A_122479	NW_004516385.1	scaffold1083	122479	GG	CC	CC	INTERGENIC			
SNP_89684_A_122485	NW_004516385.1	scaffold1083	122485	GG	TT	TT	INTERGENIC			
SNP_89685_A_122558	NW_004516385.1	scaffold1083	122558	TT	AA	AA	INTERGENIC			
SNP_89686_A_131824	NW_004516385.1	scaffold1083	131824	AA	TT	TT	INTERGENIC			
SNP_89687_A_131828	NW_004516385.1	scaffold1083	131828	AA	TT	TT	INTERGENIC			
SNP_89688_A_131843	NW_004516385.1	scaffold1083	131843	TT	CC	CC	INTERGENIC			
SNP_89689_A_132242	NW_004516385.1	scaffold1083	132242	CC	AA	AA	INTERGENIC			
SNP_89690_A_132268	NW_004516385.1	scaffold1083	132268	TT	AA	AA	INTERGENIC			
SNP_89691_A_132504	NW_004516385.1	scaffold1083	132504	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89692_A_132657	NW_004516385.1	scaffold1083	132657	AA	TT	TT	INTERGENIC			
SNP_89693_A_132668	NW_004516385.1	scaffold1083	132668	TT	CC	CC	INTERGENIC			
SNP_89694_A_132669	NW_004516385.1	scaffold1083	132669	AA	TT	TT	INTERGENIC			
SNP_89695_A_132781	NW_004516385.1	scaffold1083	132781	TT	AA	AA	INTERGENIC			
SNP_89696_A_132944	NW_004516385.1	scaffold1083	132944	TT	AA	AA	INTERGENIC			
SNP_89697_A_133074	NW_004516385.1	scaffold1083	133074	GG	TT	TT	INTERGENIC			
SNP_89698_A_133678	NW_004516385.1	scaffold1083	133678	TT	CC	CC	INTERGENIC			
SNP_89699_A_133754	NW_004516385.1	scaffold1083	133754	AA	CC	CC	INTERGENIC			
SNP_89700_A_5810	NW_004516386.1	scaffold1084	5810	TT	GG	GG	INTERGENIC			
SNP_89701_A_1114	NW_004516387.1	scaffold1085	1114	TT	AA	AA	INTERGENIC			
SNP_89702_A_1161	NW_004516387.1	scaffold1085	1161	AA	CC	CC	INTERGENIC			
SNP_89703_A_1162	NW_004516387.1	scaffold1085	1162	TT	CC	CC	INTERGENIC			
SNP_89704_A_1180	NW_004516387.1	scaffold1085	1180	AA	GG	GG	INTERGENIC			
SNP_89705_A_6563	NW_004516389.1	scaffold1087	6563	CC	TT	TT	INTERGENIC			
SNP_89706_A_12247	NW_004516389.1	scaffold1087	12247	AA	GG	GG	INTERGENIC			
SNP_89707_A_12262	NW_004516389.1	scaffold1087	12262	TT	GG	GG	INTERGENIC			
SNP_89708_A_12271	NW_004516389.1	scaffold1087	12271	CC	TT	TT	INTERGENIC			
SNP_89709_A_12318	NW_004516389.1	scaffold1087	12318	TT	CC	CC	INTERGENIC			
SNP_89710_A_12360	NW_004516389.1	scaffold1087	12360	AA	GG	GG	INTERGENIC			
SNP_89711_A_12386	NW_004516389.1	scaffold1087	12386	TT	GG	GG	INTERGENIC			
SNP_89712_A_12420	NW_004516389.1	scaffold1087	12420	GG	AA	AA	INTERGENIC			
SNP_89713_A_12421	NW_004516389.1	scaffold1087	12421	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89714_A_12451	NW_004516389.1	scaffold1087	12451	CC	TT	TT	INTERGENIC			
SNP_89715_A_12525	NW_004516389.1	scaffold1087	12525	CC	TT	TT	INTERGENIC			
SNP_89717_A_12704	NW_004516389.1	scaffold1087	12704	TT	CC	CC	INTERGENIC			
SNP_89718_A_12707	NW_004516389.1	scaffold1087	12707	GG	AA	AA	INTERGENIC			
SNP_89719_A_12708	NW_004516389.1	scaffold1087	12708	CC	GG	GG	INTERGENIC			
SNP_89720_A_12738	NW_004516389.1	scaffold1087	12738	TT	AA	AA	INTERGENIC			
SNP_89721_A_12874	NW_004516389.1	scaffold1087	12874	GG	AA	AA	INTERGENIC			
SNP_89722_A_13031	NW_004516389.1	scaffold1087	13031	AA	GG	GG	INTERGENIC			
SNP_89723_A_13032	NW_004516389.1	scaffold1087	13032	TT	CC	CC	INTERGENIC			
SNP_89724_A_13038	NW_004516389.1	scaffold1087	13038	CC	TT	TT	INTERGENIC			
SNP_89725_A_13068	NW_004516389.1	scaffold1087	13068	GG	CC	CC	INTERGENIC			
SNP_89726_A_13141	NW_004516389.1	scaffold1087	13141	TT	AA	AA	INTERGENIC			
SNP_89727_A_13146	NW_004516389.1	scaffold1087	13146	TT	CC	CC	INTERGENIC			
SNP_89728_A_13172	NW_004516389.1	scaffold1087	13172	CC	TT	TT	INTERGENIC			
SNP_89729_A_13246	NW_004516389.1	scaffold1087	13246	AA	GG	GG	INTERGENIC			
SNP_89730_A_13276	NW_004516389.1	scaffold1087	13276	GG	AA	AA	INTERGENIC			
SNP_89731_A_13306	NW_004516389.1	scaffold1087	13306	TT	CC	CC	INTERGENIC			
SNP_89732_A_13321	NW_004516389.1	scaffold1087	13321	AA	TT	TT	INTERGENIC			
SNP_89733_A_13368	NW_004516389.1	scaffold1087	13368	TT	CC	CC	INTERGENIC			
SNP_89734_A_13386	NW_004516389.1	scaffold1087	13386	TT	AA	AA	INTERGENIC			
SNP_89735_A_13402	NW_004516389.1	scaffold1087	13402	AA	GG	GG	INTERGENIC			
SNP_89736_A_13461	NW_004516389.1	scaffold1087	13461	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89738_A_13585	NW_004516389.1	scaffold1087	13585	TT	AA	AA	INTERGENIC		
SNP_89739_A_13646	NW_004516389.1	scaffold1087	13646	AA	GG	GG	INTERGENIC		
SNP_89740_A_13662	NW_004516389.1	scaffold1087	13662	AA	GG	GG	INTERGENIC		
SNP_89741_A_13807	NW_004516389.1	scaffold1087	13807	AA	GG	GG	DRR	101501588	amino acid permease 6-like
SNP_89742_A_13867	NW_004516389.1	scaffold1087	13867	TT	CC	CC	DRR	101501588	amino acid permease 6-like
SNP_89743_A_13868	NW_004516389.1	scaffold1087	13868	GG	AA	AA	DRR	101501588	amino acid permease 6-like
SNP_89744_A_13931	NW_004516389.1	scaffold1087	13931	AA	CC	CC	DRR	101501588	amino acid permease 6-like
SNP_89745_A_14073	NW_004516389.1	scaffold1087	14073	GG	AA	AA	DRR	101501588	amino acid permease 6-like
SNP_89746_A_14082	NW_004516389.1	scaffold1087	14082	AA	GG	GG	DRR	101501588	amino acid permease 6-like
SNP_89747_A_14086	NW_004516389.1	scaffold1087	14086	AA	TT	TT	DRR	101501588	amino acid permease 6-like
SNP_89748_A_14142	NW_004516389.1	scaffold1087	14142	AA	TT	TT	DRR	101501588	amino acid permease 6-like
SNP_89749_A_14291	NW_004516389.1	scaffold1087	14291	AA	TT	TT	DRR	101501588	amino acid permease 6-like
SNP_89750_A_14373	NW_004516389.1	scaffold1087	14373	GG	AA	AA	DRR	101501588	amino acid permease 6-like
SNP_89752_A_14411	NW_004516389.1	scaffold1087	14411	TT	CC	CC	DRR	101501588	amino acid permease 6-like
SNP_89753_A_14523	NW_004516389.1	scaffold1087	14523	GG	TT	TT	DRR	101501588	amino acid permease 6-like
SNP_89754_A_14567	NW_004516389.1	scaffold1087	14567	GG	AA	AA	DRR	101501588	amino acid permease 6-like
SNP_89755_A_14724	NW_004516389.1	scaffold1087	14724	GG	AA	AA	SYNONYMOUS_CODING	101501588	amino acid permease 6-like
SNP_89756_A_14782	NW_004516389.1	scaffold1087	14782	TT	AA	AA	NON_SYNONYMOUS_CODING	101501588	amino acid permease 6-like
SNP_89757_A_14793	NW_004516389.1	scaffold1087	14793	CC	AA	AA	SYNONYMOUS_CODING	101501588	amino acid permease 6-like
SNP_89758_A_14796	NW_004516389.1	scaffold1087	14796	CC	TT	TT	SYNONYMOUS_CODING	101501588	amino acid permease 6-like
SNP_89759_A_14814	NW_004516389.1	scaffold1087	14814	TT	CC	CC	SYNONYMOUS_CODING	101501588	amino acid permease 6-like
SNP_89760_A_16489	NW_004516389.1	scaffold1087	16489	AA	GG	GG	URR	101501588	amino acid permease 6-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89761_A_22796	NW_004516389.1	scaffold1087	22796	AA	GG	GG	INTERGENIC			
SNP_89762_A_22797	NW_004516389.1	scaffold1087	22797	AA	GG	GG	INTERGENIC			
SNP_89763_A_22851	NW_004516389.1	scaffold1087	22851	AA	GG	GG	INTERGENIC			
SNP_89764_A_22889	NW_004516389.1	scaffold1087	22889	TT	CC	CC	INTERGENIC			
SNP_89765_A_22935	NW_004516389.1	scaffold1087	22935	TT	CC	CC	INTERGENIC			
SNP_89766_A_22938	NW_004516389.1	scaffold1087	22938	TT	AA	AA	INTERGENIC			
SNP_89767_A_22976	NW_004516389.1	scaffold1087	22976	CC	TT	TT	INTERGENIC			
SNP_89768_A_23005	NW_004516389.1	scaffold1087	23005	CC	TT	TT	INTERGENIC			
SNP_89770_A_23096	NW_004516389.1	scaffold1087	23096	AA	TT	TT	INTERGENIC			
SNP_89772_A_23242	NW_004516389.1	scaffold1087	23242	CC	TT	TT	INTERGENIC			
SNP_89773_A_23320	NW_004516389.1	scaffold1087	23320	TT	CC	CC	INTERGENIC			
SNP_89774_A_23335	NW_004516389.1	scaffold1087	23335	AA	GG	GG	INTERGENIC			
SNP_89775_A_23528	NW_004516389.1	scaffold1087	23528	CC	TT	TT	INTERGENIC			
SNP_89776_A_27855	NW_004516389.1	scaffold1087	27855	AA	CC	CC	SYNONYMOUS_CODING	101501898	amino acid permease 6-like	
SNP_89777_A_28246	NW_004516389.1	scaffold1087	28246	AA	GG	GG	URR	101501898	amino acid permease 6-like	
SNP_89778_A_28489	NW_004516389.1	scaffold1087	28489	CC	AA	AA	URR	101501898	amino acid permease 6-like	
SNP_89779_A_28514	NW_004516389.1	scaffold1087	28514	TT	CC	CC	URR	101501898	amino acid permease 6-like	
SNP_89780_A_28521	NW_004516389.1	scaffold1087	28521	TT	CC	CC	URR	101501898	amino acid permease 6-like	
SNP_89781_A_28588	NW_004516389.1	scaffold1087	28588	CC	GG	GG	URR	101501898	amino acid permease 6-like	
SNP_89783_A_189631	NW_004516390.1	scaffold1089	189631	AA	TT	TT	INTERGENIC			
SNP_89784_A_189892	NW_004516390.1	scaffold1089	189892	GG	AA	AA	INTERGENIC			
SNP_89785_A_189931	NW_004516390.1	scaffold1089	189931	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89786_A_200955	NW_004516390.1	scaffold1089	200955	AA	CC	CC	INTERGENIC			
SNP_89787_A_226996	NW_004516390.1	scaffold1089	226996	AA	GG	GG	INTERGENIC			
SNP_89788_A_227007	NW_004516390.1	scaffold1089	227007	TT	GG	GG	INTERGENIC			
SNP_89789_A_243907	NW_004516390.1	scaffold1089	243907	CC	TT	TT	INTERGENIC			
SNP_89790_A_243935	NW_004516390.1	scaffold1089	243935	TT	CC	CC	INTERGENIC			
SNP_89791_A_259108	NW_004516390.1	scaffold1089	259108	CC	TT	TT	INTERGENIC			
SNP_89792_A_259569	NW_004516390.1	scaffold1089	259569	AA	GG	GG	INTERGENIC			
SNP_89793_A_259828	NW_004516390.1	scaffold1089	259828	AA	GG	GG	INTERGENIC			
SNP_89794_A_259872	NW_004516390.1	scaffold1089	259872	AA	GG	GG	INTERGENIC			
SNP_89795_A_264859	NW_004516390.1	scaffold1089	264859	AA	CC	CC	INTERGENIC			
SNP_89796_A_3343	NW_004516393.1	scaffold1092	3343	AA	CC	CC	INTERGENIC			
SNP_89797_A_5991	NW_004516393.1	scaffold1092	5991	AA	GG	GG	INTERGENIC			
SNP_89798_A_6038	NW_004516393.1	scaffold1092	6038	AA	GG	GG	INTERGENIC			
SNP_89799_A_6060	NW_004516393.1	scaffold1092	6060	GG	TT	TT	INTERGENIC			
SNP_89800_A_6286	NW_004516393.1	scaffold1092	6286	AA	TT	TT	INTERGENIC			
SNP_89801_A_6911	NW_004516393.1	scaffold1092	6911	CC	GG	GG	INTERGENIC			
SNP_89802_A_8785	NW_004516393.1	scaffold1092	8785	AA	TT	TT	INTERGENIC			
SNP_89803_A_9264	NW_004516393.1	scaffold1092	9264	CC	GG	GG	INTERGENIC			
SNP_89804_A_9582	NW_004516393.1	scaffold1092	9582	AA	GG	GG	INTERGENIC			
SNP_89805_A_11202	NW_004516393.1	scaffold1092	11202	AA	CC	CC	INTERGENIC			
SNP_89806_A_13428	NW_004516393.1	scaffold1092	13428	AA	TT	TT	INTERGENIC			
SNP_89807_A_13429	NW_004516393.1	scaffold1092	13429	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89809_A_13605	NW_004516393.1	scaffold1092	13605	AA	TT	TT	INTERGENIC			
SNP_89810_A_13797	NW_004516393.1	scaffold1092	13797	CC	TT	TT	INTERGENIC			
SNP_89811_A_14729	NW_004516393.1	scaffold1092	14729	TT	CC	CC	INTERGENIC			
SNP_89812_A_17467	NW_004516393.1	scaffold1092	17467	AA	CC	CC	INTERGENIC			
SNP_89813_A_17788	NW_004516393.1	scaffold1092	17788	CC	TT	TT	INTERGENIC			
SNP_89814_A_17789	NW_004516393.1	scaffold1092	17789	CC	AA	AA	INTERGENIC			
SNP_89815_A_17905	NW_004516393.1	scaffold1092	17905	AA	CC	CC	INTERGENIC			
SNP_89816_A_17909	NW_004516393.1	scaffold1092	17909	CC	AA	AA	INTERGENIC			
SNP_89817_A_17926	NW_004516393.1	scaffold1092	17926	GG	AA	AA	INTERGENIC			
SNP_89818_A_17984	NW_004516393.1	scaffold1092	17984	TT	CC	CC	INTERGENIC			
SNP_89820_A_18184	NW_004516393.1	scaffold1092	18184	GG	TT	TT	INTERGENIC			
SNP_89821_A_18875	NW_004516393.1	scaffold1092	18875	AA	GG	GG	INTERGENIC			
SNP_89822_A_18946	NW_004516393.1	scaffold1092	18946	AA	GG	GG	INTERGENIC			
SNP_89823_A_19137	NW_004516393.1	scaffold1092	19137	CC	TT	TT	INTERGENIC			
SNP_89824_A_19275	NW_004516393.1	scaffold1092	19275	TT	GG	GG	INTERGENIC			
SNP_89825_A_19303	NW_004516393.1	scaffold1092	19303	CC	AA	AA	INTERGENIC			
SNP_89826_A_19307	NW_004516393.1	scaffold1092	19307	CC	AA	AA	INTERGENIC			
SNP_89827_A_19339	NW_004516393.1	scaffold1092	19339	AA	TT	TT	INTERGENIC			
SNP_89828_A_19432	NW_004516393.1	scaffold1092	19432	TT	CC	CC	INTERGENIC			
SNP_89829_A_19440	NW_004516393.1	scaffold1092	19440	AA	TT	TT	INTERGENIC			
SNP_89830_A_19467	NW_004516393.1	scaffold1092	19467	GG	TT	TT	INTERGENIC			
SNP_89831_A_19513	NW_004516393.1	scaffold1092	19513	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89832_A_33854	NW_004516393.1	scaffold1092	33854	AA	GG	GG	INTERGENIC			
SNP_89833_A_37104	NW_004516393.1	scaffold1092	37104	TT	CC	CC	INTERGENIC			
SNP_89834_A_37422	NW_004516393.1	scaffold1092	37422	TT	CC	CC	INTERGENIC			
SNP_89835_A_38007	NW_004516393.1	scaffold1092	38007	AA	CC	CC	INTERGENIC			
SNP_89836_A_39109	NW_004516393.1	scaffold1092	39109	AA	GG	GG	INTERGENIC			
SNP_89837_A_45963	NW_004516393.1	scaffold1092	45963	CC	TT	TT	INTERGENIC			
SNP_89838_A_46083	NW_004516393.1	scaffold1092	46083	GG	TT	TT	INTERGENIC			
SNP_89839_A_46100	NW_004516393.1	scaffold1092	46100	GG	AA	AA	INTERGENIC			
SNP_89840_A_46868	NW_004516393.1	scaffold1092	46868	TT	GG	GG	INTERGENIC			
SNP_89841_A_47075	NW_004516393.1	scaffold1092	47075	TT	CC	CC	INTERGENIC			
SNP_89842_A_49342	NW_004516393.1	scaffold1092	49342	AA	GG	GG	INTERGENIC			
SNP_89843_A_57447	NW_004516393.1	scaffold1092	57447	GG	CC	CC	INTERGENIC			
SNP_89844_A_57488	NW_004516393.1	scaffold1092	57488	GG	TT	TT	INTERGENIC			
SNP_89845_A_57514	NW_004516393.1	scaffold1092	57514	CC	TT	TT	INTERGENIC			
SNP_89846_A_58203	NW_004516393.1	scaffold1092	58203	TT	GG	GG	INTERGENIC			
SNP_89847_A_58398	NW_004516393.1	scaffold1092	58398	AA	TT	TT	INTERGENIC			
SNP_89848_A_59477	NW_004516393.1	scaffold1092	59477	AA	GG	GG	INTERGENIC			
SNP_89849_A_59774	NW_004516393.1	scaffold1092	59774	CC	GG	GG	INTERGENIC			
SNP_89850_A_60966	NW_004516393.1	scaffold1092	60966	TT	GG	GG	INTERGENIC			
SNP_89851_A_63982	NW_004516393.1	scaffold1092	63982	TT	GG	GG	INTERGENIC			
SNP_89852_A_64390	NW_004516393.1	scaffold1092	64390	AA	GG	GG	INTERGENIC			
SNP_89854_A_65434	NW_004516393.1	scaffold1092	65434	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89855_A_65502	NW_004516393.1	scaffold1092	65502	CC	GG	GG	INTERGENIC			
SNP_89857_A_65965	NW_004516393.1	scaffold1092	65965	AA	GG	GG	INTERGENIC			
SNP_89858_A_68199	NW_004516393.1	scaffold1092	68199	AA	GG	GG	INTERGENIC			
SNP_89859_A_75400	NW_004516393.1	scaffold1092	75400	TT	AA	AA	INTERGENIC			
SNP_89860_A_75920	NW_004516393.1	scaffold1092	75920	TT	CC	CC	INTERGENIC			
SNP_89861_A_82408	NW_004516393.1	scaffold1092	82408	CC	AA	AA	INTERGENIC			
SNP_89862_A_82800	NW_004516393.1	scaffold1092	82800	TT	AA	AA	INTERGENIC			
SNP_89863_A_83772	NW_004516393.1	scaffold1092	83772	CC	GG	GG	INTERGENIC			
SNP_89864_A_85605	NW_004516393.1	scaffold1092	85605	CC	TT	TT	INTERGENIC			
SNP_89865_A_86754	NW_004516393.1	scaffold1092	86754	CC	TT	TT	INTERGENIC			
SNP_89866_A_86779	NW_004516393.1	scaffold1092	86779	AA	GG	GG	INTERGENIC			
SNP_89867_A_93837	NW_004516393.1	scaffold1092	93837	AA	GG	GG	INTERGENIC			
SNP_89868_A_93987	NW_004516393.1	scaffold1092	93987	TT	GG	GG	INTERGENIC			
SNP_89869_A_94523	NW_004516393.1	scaffold1092	94523	AA	TT	TT	INTERGENIC			
SNP_89870_A_94742	NW_004516393.1	scaffold1092	94742	TT	AA	AA	INTERGENIC			
SNP_89871_A_94859	NW_004516393.1	scaffold1092	94859	TT	GG	GG	INTERGENIC			
SNP_89872_A_101503	NW_004516393.1	scaffold1092	101503	AA	TT	TT	INTERGENIC			
SNP_89873_A_101994	NW_004516393.1	scaffold1092	101994	GG	AA	AA	INTERGENIC			
SNP_89874_A_102020	NW_004516393.1	scaffold1092	102020	TT	AA	AA	INTERGENIC			
SNP_89875_A_102320	NW_004516393.1	scaffold1092	102320	AA	TT	TT	INTERGENIC			
SNP_89876_A_103118	NW_004516393.1	scaffold1092	103118	TT	AA	AA	INTERGENIC			
SNP_89877_A_103452	NW_004516393.1	scaffold1092	103452	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89878_A_103453	NW_004516393.1	scaffold1092	103453	TT	AA	AA	INTERGENIC			
SNP_89879_A_103662	NW_004516393.1	scaffold1092	103662	CC	GG	GG	INTERGENIC			
SNP_89880_A_103728	NW_004516393.1	scaffold1092	103728	AA	TT	TT	INTERGENIC			
SNP_89881_A_103820	NW_004516393.1	scaffold1092	103820	CC	TT	TT	INTERGENIC			
SNP_89882_A_105067	NW_004516393.1	scaffold1092	105067	GG	AA	AA	INTERGENIC			
SNP_89883_A_105122	NW_004516393.1	scaffold1092	105122	CC	AA	AA	INTERGENIC			
SNP_89884_A_105563	NW_004516393.1	scaffold1092	105563	CC	GG	GG	INTERGENIC			
SNP_89885_A_105600	NW_004516393.1	scaffold1092	105600	GG	TT	TT	INTERGENIC			
SNP_89886_A_105661	NW_004516393.1	scaffold1092	105661	TT	CC	CC	INTERGENIC			
SNP_89887_A_105776	NW_004516393.1	scaffold1092	105776	AA	CC	CC	INTERGENIC			
SNP_89889_A_111019	NW_004516393.1	scaffold1092	111019	TT	CC	CC	INTERGENIC			
SNP_89890_A_111916	NW_004516393.1	scaffold1092	111916	GG	CC	CC	INTERGENIC			
SNP_89891_A_112051	NW_004516393.1	scaffold1092	112051	AA	CC	CC	INTERGENIC			
SNP_89892_A_112103	NW_004516393.1	scaffold1092	112103	AA	TT	TT	INTERGENIC			
SNP_89893_A_112150	NW_004516393.1	scaffold1092	112150	GG	CC	CC	INTERGENIC			
SNP_89894_A_112211	NW_004516393.1	scaffold1092	112211	CC	TT	TT	INTERGENIC			
SNP_89895_A_112222	NW_004516393.1	scaffold1092	112222	CC	GG	GG	INTERGENIC			
SNP_89896_A_114047	NW_004516393.1	scaffold1092	114047	TT	CC	CC	INTERGENIC			
SNP_89897_A_114050	NW_004516393.1	scaffold1092	114050	CC	AA	AA	INTERGENIC			
SNP_89899_A_114182	NW_004516393.1	scaffold1092	114182	GG	CC	CC	INTERGENIC			
SNP_89900_A_114349	NW_004516393.1	scaffold1092	114349	CC	AA	AA	INTERGENIC			
SNP_89901_A_114479	NW_004516393.1	scaffold1092	114479	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89903_A_114582	NW_004516393.1	scaffold1092	114582	TT	CC	CC	INTERGENIC			
SNP_89904_A_114652	NW_004516393.1	scaffold1092	114652	GG	CC	CC	INTERGENIC			
SNP_89905_A_115197	NW_004516393.1	scaffold1092	115197	TT	GG	GG	INTERGENIC			
SNP_89906_A_115215	NW_004516393.1	scaffold1092	115215	TT	AA	AA	INTERGENIC			
SNP_89907_A_116820	NW_004516393.1	scaffold1092	116820	TT	AA	AA	INTERGENIC			
SNP_89908_A_116829	NW_004516393.1	scaffold1092	116829	TT	GG	GG	INTERGENIC			
SNP_89909_A_116851	NW_004516393.1	scaffold1092	116851	TT	AA	AA	INTERGENIC			
SNP_89910_A_116879	NW_004516393.1	scaffold1092	116879	AA	TT	TT	INTERGENIC			
SNP_89911_A_116995	NW_004516393.1	scaffold1092	116995	AA	GG	GG	INTERGENIC			
SNP_89912_A_117145	NW_004516393.1	scaffold1092	117145	AA	TT	TT	INTERGENIC			
SNP_89913_A_117259	NW_004516393.1	scaffold1092	117259	GG	AA	AA	INTERGENIC			
SNP_89914_A_117391	NW_004516393.1	scaffold1092	117391	AA	TT	TT	INTERGENIC			
SNP_89915_A_117408	NW_004516393.1	scaffold1092	117408	TT	AA	AA	INTERGENIC			
SNP_89916_A_117589	NW_004516393.1	scaffold1092	117589	TT	AA	AA	INTERGENIC			
SNP_89917_A_117793	NW_004516393.1	scaffold1092	117793	TT	GG	GG	INTERGENIC			
SNP_89918_A_117841	NW_004516393.1	scaffold1092	117841	GG	AA	AA	INTERGENIC			
SNP_89919_A_117986	NW_004516393.1	scaffold1092	117986	TT	CC	CC	INTERGENIC			
SNP_89920_A_119137	NW_004516393.1	scaffold1092	119137	AA	TT	TT	INTERGENIC			
SNP_89921_A_119240	NW_004516393.1	scaffold1092	119240	AA	CC	CC	INTERGENIC			
SNP_89922_A_119243	NW_004516393.1	scaffold1092	119243	TT	AA	AA	INTERGENIC			
SNP_89923_A_119387	NW_004516393.1	scaffold1092	119387	CC	TT	TT	INTERGENIC			
SNP_89924_A_119450	NW_004516393.1	scaffold1092	119450	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89928_A_122096	NW_004516393.1	scaffold1092	122096	TT	AA	AA	INTERGENIC			
SNP_89929_A_122112	NW_004516393.1	scaffold1092	122112	TT	AA	AA	INTERGENIC			
SNP_89931_A_122298	NW_004516393.1	scaffold1092	122298	TT	GG	GG	INTERGENIC			
SNP_89932_A_122415	NW_004516393.1	scaffold1092	122415	CC	GG	GG	INTERGENIC			
SNP_89933_A_122423	NW_004516393.1	scaffold1092	122423	TT	CC	CC	INTERGENIC			
SNP_89934_A_122474	NW_004516393.1	scaffold1092	122474	CC	AA	AA	INTERGENIC			
SNP_89935_A_125742	NW_004516393.1	scaffold1092	125742	AA	TT	TT	INTERGENIC			
SNP_89936_A_127843	NW_004516393.1	scaffold1092	127843	GG	TT	TT	INTERGENIC			
SNP_89937_A_127930	NW_004516393.1	scaffold1092	127930	CC	TT	TT	INTERGENIC			
SNP_89938_A_127977	NW_004516393.1	scaffold1092	127977	AA	TT	TT	INTERGENIC			
SNP_89939_A_128061	NW_004516393.1	scaffold1092	128061	TT	CC	CC	INTERGENIC			
SNP_89940_A_139135	NW_004516393.1	scaffold1092	139135	GG	AA	AA	INTERGENIC			
SNP_89941_A_139166	NW_004516393.1	scaffold1092	139166	TT	AA	AA	INTERGENIC			
SNP_89942_A_139264	NW_004516393.1	scaffold1092	139264	CC	TT	TT	INTERGENIC			
SNP_89943_A_139279	NW_004516393.1	scaffold1092	139279	TT	AA	AA	INTERGENIC			
SNP_89944_A_139339	NW_004516393.1	scaffold1092	139339	CC	TT	TT	INTERGENIC			
SNP_89945_A_139478	NW_004516393.1	scaffold1092	139478	TT	CC	CC	INTERGENIC			
SNP_89946_A_139571	NW_004516393.1	scaffold1092	139571	TT	GG	GG	INTERGENIC			
SNP_89947_A_139581	NW_004516393.1	scaffold1092	139581	TT	GG	GG	INTERGENIC			
SNP_89948_A_139743	NW_004516393.1	scaffold1092	139743	TT	CC	CC	INTERGENIC			
SNP_89949_A_139748	NW_004516393.1	scaffold1092	139748	AA	GG	GG	INTERGENIC			
SNP_89950_A_139869	NW_004516393.1	scaffold1092	139869	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89951_A_139870	NW_004516393.1	scaffold1092	139870	TT	GG	GG	INTERGENIC			
SNP_89952_A_140420	NW_004516393.1	scaffold1092	140420	AA	GG	GG	INTERGENIC			
SNP_89953_A_140827	NW_004516393.1	scaffold1092	140827	CC	AA	AA	INTERGENIC			
SNP_89954_A_140875	NW_004516393.1	scaffold1092	140875	GG	AA	AA	INTERGENIC			
SNP_89955_A_141015	NW_004516393.1	scaffold1092	141015	TT	AA	AA	INTERGENIC			
SNP_89956_A_141044	NW_004516393.1	scaffold1092	141044	AA	GG	GG	INTERGENIC			
SNP_89957_A_141168	NW_004516393.1	scaffold1092	141168	AA	CC	CC	INTERGENIC			
SNP_89958_A_141332	NW_004516393.1	scaffold1092	141332	AA	TT	TT	INTERGENIC			
SNP_89959_A_141405	NW_004516393.1	scaffold1092	141405	GG	AA	AA	INTERGENIC			
SNP_89960_A_141674	NW_004516393.1	scaffold1092	141674	AA	TT	TT	INTERGENIC			
SNP_89961_A_141849	NW_004516393.1	scaffold1092	141849	GG	AA	AA	INTERGENIC			
SNP_89962_A_142155	NW_004516393.1	scaffold1092	142155	GG	TT	TT	INTERGENIC			
SNP_89963_A_142465	NW_004516393.1	scaffold1092	142465	TT	CC	CC	INTERGENIC			
SNP_89964_A_142620	NW_004516393.1	scaffold1092	142620	CC	TT	TT	INTERGENIC			
SNP_89965_A_142757	NW_004516393.1	scaffold1092	142757	CC	TT	TT	INTERGENIC			
SNP_89966_A_142772	NW_004516393.1	scaffold1092	142772	GG	CC	CC	INTERGENIC			
SNP_89967_A_142965	NW_004516393.1	scaffold1092	142965	TT	AA	AA	INTERGENIC			
SNP_89968_A_143004	NW_004516393.1	scaffold1092	143004	TT	CC	CC	INTERGENIC			
SNP_89969_A_143067	NW_004516393.1	scaffold1092	143067	CC	TT	TT	INTERGENIC			
SNP_89970_A_143105	NW_004516393.1	scaffold1092	143105	TT	CC	CC	INTERGENIC			
SNP_89971_A_143221	NW_004516393.1	scaffold1092	143221	GG	AA	AA	INTERGENIC			
SNP_89972_A_144122	NW_004516393.1	scaffold1092	144122	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_89974_A_145399	NW_004516393.1	scaffold1092	145399	GG	TT	TT	INTERGENIC			
SNP_89975_A_146395	NW_004516393.1	scaffold1092	146395	TT	CC	CC	INTERGENIC			
SNP_89976_A_146429	NW_004516393.1	scaffold1092	146429	AA	GG	GG	INTERGENIC			
SNP_89977_A_146717	NW_004516393.1	scaffold1092	146717	CC	TT	TT	INTERGENIC			
SNP_89979_A_146836	NW_004516393.1	scaffold1092	146836	CC	TT	TT	INTERGENIC			
SNP_89980_A_146976	NW_004516393.1	scaffold1092	146976	CC	AA	AA	INTERGENIC			
SNP_89981_A_147094	NW_004516393.1	scaffold1092	147094	TT	GG	GG	INTERGENIC			
SNP_89982_A_147132	NW_004516393.1	scaffold1092	147132	TT	AA	AA	INTERGENIC			
SNP_89983_A_147193	NW_004516393.1	scaffold1092	147193	AA	TT	TT	INTERGENIC			
SNP_89984_A_147552	NW_004516393.1	scaffold1092	147552	GG	TT	TT	INTERGENIC			
SNP_89985_A_147714	NW_004516393.1	scaffold1092	147714	TT	AA	AA	INTERGENIC			
SNP_89986_A_147794	NW_004516393.1	scaffold1092	147794	AA	TT	TT	INTERGENIC			
SNP_89987_A_147801	NW_004516393.1	scaffold1092	147801	GG	AA	AA	INTERGENIC			
SNP_89988_A_147947	NW_004516393.1	scaffold1092	147947	AA	TT	TT	INTERGENIC			
SNP_89989_A_147968	NW_004516393.1	scaffold1092	147968	CC	GG	GG	INTERGENIC			
SNP_89990_A_148400	NW_004516393.1	scaffold1092	148400	AA	TT	TT	INTERGENIC			
SNP_89991_A_150679	NW_004516393.1	scaffold1092	150679	TT	AA	AA	INTERGENIC			
SNP_89992_A_152103	NW_004516393.1	scaffold1092	152103	GG	AA	AA	INTERGENIC			
SNP_89993_A_152603	NW_004516393.1	scaffold1092	152603	TT	CC	CC	INTERGENIC			
SNP_89994_A_152766	NW_004516393.1	scaffold1092	152766	TT	AA	AA	INTERGENIC			
SNP_89995_A_152982	NW_004516393.1	scaffold1092	152982	AA	CC	CC	INTERGENIC			
SNP_89996_A_153181	NW_004516393.1	scaffold1092	153181	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_89997_A_153503	NW_004516393.1	scaffold1092	153503	CC	GG	GG	INTERGENIC		
SNP_89998_A_157506	NW_004516393.1	scaffold1092	157506	GG	CC	CC	INTERGENIC		
SNP_89999_A_6147	NW_004516394.1	scaffold1095	6147	GG	AA	AA	INTERGENIC		
SNP_90000_A_16814	NW_004516394.1	scaffold1095	16814	TT	GG	GG	URR	101506611	pentatricopeptide repeat-containing protein At1g62930, chloroplastic-like
SNP_90001_A_18067	NW_004516394.1	scaffold1095	18067	CC	TT	TT	INTERGENIC		
SNP_90002_A_18114	NW_004516394.1	scaffold1095	18114	TT	CC	CC	INTERGENIC		
SNP_90003_A_18115	NW_004516394.1	scaffold1095	18115	GG	AA	AA	INTERGENIC		
SNP_90004_A_38328	NW_004516394.1	scaffold1095	38328	CC	TT	TT	INTERGENIC		
SNP_90005_A_38410	NW_004516394.1	scaffold1095	38410	CC	TT	TT	INTERGENIC		
SNP_90006_A_38769	NW_004516394.1	scaffold1095	38769	AA	TT	TT	INTERGENIC		
SNP_90007_A_3375	NW_004516396.1	scaffold1101	3375	TT	CC	CC	INTERGENIC		
SNP_90008_A_3466	NW_004516396.1	scaffold1101	3466	AA	GG	GG	INTERGENIC		
SNP_90009_A_3467	NW_004516396.1	scaffold1101	3467	AA	GG	GG	INTERGENIC		
SNP_90011_A_3845	NW_004516396.1	scaffold1101	3845	CC	TT	TT	INTERGENIC		
SNP_90013_A_3967	NW_004516396.1	scaffold1101	3967	CC	GG	GG	INTERGENIC		
SNP_90014_A_3977	NW_004516396.1	scaffold1101	3977	GG	TT	TT	INTERGENIC		
SNP_90015_A_3991	NW_004516396.1	scaffold1101	3991	CC	AA	AA	INTERGENIC		
SNP_90016_A_4006	NW_004516396.1	scaffold1101	4006	AA	GG	GG	INTERGENIC		
SNP_90017_A_4015	NW_004516396.1	scaffold1101	4015	TT	CC	CC	INTERGENIC		
SNP_90018_A_4661	NW_004516396.1	scaffold1101	4661	GG	AA	AA	INTERGENIC		
SNP_90019_A_24309	NW_004516396.1	scaffold1101	24309	TT	CC	CC	INTERGENIC		
SNP_90020_A_5808	NW_004516397.1	scaffold1102	5808	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90022_A_7660	NW_004516397.1	scaffold1102	7660	TT	CC	CC	INTERGENIC		
SNP_90023_A_7729	NW_004516397.1	scaffold1102	7729	TT	CC	CC	INTERGENIC		
SNP_90024_A_11312	NW_004516397.1	scaffold1102	11312	AA	CC	CC	INTERGENIC		
SNP_90025_A_1869	NW_004516398.1	scaffold1103	1869	AA	GG	GG	INTERGENIC		
SNP_90026_A_4011	NW_004516398.1	scaffold1103	4011	TT	CC	CC	INTERGENIC		
SNP_90027_A_26532	NW_004516398.1	scaffold1103	26532	GG	AA	AA	INTERGENIC		
SNP_90028_A_75883	NW_004516401.1	scaffold1107	75883	AA	GG	GG	INTERGENIC		
SNP_90029_A_93946	NW_004516401.1	scaffold1107	93946	GG	TT	TT	INTRON	id209683	Unknown function
SNP_90030_A_94046	NW_004516401.1	scaffold1107	94046	GG	TT	TT	INTRON	id209683	Unknown function
SNP_90031_A_94067	NW_004516401.1	scaffold1107	94067	CC	AA	AA	INTRON	id209683	Unknown function
SNP_90032_A_94153	NW_004516401.1	scaffold1107	94153	CC	AA	AA	INTRON	id209683	Unknown function
SNP_90033_A_94160	NW_004516401.1	scaffold1107	94160	GG	TT	TT	INTRON	id209683	Unknown function
SNP_90034_A_94203	NW_004516401.1	scaffold1107	94203	CC	AA	AA	INTRON	id209683	Unknown function
SNP_90035_A_94205	NW_004516401.1	scaffold1107	94205	AA	GG	GG	INTRON	id209683	Unknown function
SNP_90036_A_94216	NW_004516401.1	scaffold1107	94216	AA	CC	CC	INTRON	id209683	Unknown function
SNP_90037_A_94241	NW_004516401.1	scaffold1107	94241	AA	TT	TT	INTRON	id209683	Unknown function
SNP_90038_A_100305	NW_004516401.1	scaffold1107	100305	AA	TT	TT	INTERGENIC		
SNP_90039_A_843	NW_004516402.1	scaffold1108	843	GG	TT	TT	INTERGENIC		
SNP_90040_A_13461	NW_004516403.1	scaffold1109	13461	TT	AA	AA	DRR	101508850	pectinesterase inhibitor-like
SNP_90041_A_13470	NW_004516403.1	scaffold1109	13470	AA	GG	GG	DRR	101508850	pectinesterase inhibitor-like
SNP_90042_A_13479	NW_004516403.1	scaffold1109	13479	CC	TT	TT	DRR	101508850	pectinesterase inhibitor-like
SNP_90043_A_13494	NW_004516403.1	scaffold1109	13494	GG	AA	AA	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90044_A_13545	NW_004516403.1	scaffold1109	13545	CC	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90045_A_13549	NW_004516403.1	scaffold1109	13549	AA	GG	GG	SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90046_A_13552	NW_004516403.1	scaffold1109	13552	CC	TT	TT	SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90047_A_13573	NW_004516403.1	scaffold1109	13573	AA	GG	GG	SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90048_A_13584	NW_004516403.1	scaffold1109	13584	TT	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90049_A_13593	NW_004516403.1	scaffold1109	13593	AA	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90050_A_13615	NW_004516403.1	scaffold1109	13615	TT	AA	AA	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90051_A_13627	NW_004516403.1	scaffold1109	13627	AA	CC	CC	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90052_A_13635	NW_004516403.1	scaffold1109	13635	CC	AA	AA	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90053_A_13658	NW_004516403.1	scaffold1109	13658	TT	CC	CC	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90054_A_13692	NW_004516403.1	scaffold1109	13692	TT	CC	CC	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90055_A_13714	NW_004516403.1	scaffold1109	13714	AA	TT	TT	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90056_A_13733	NW_004516403.1	scaffold1109	13733	AA	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90057_A_13812	NW_004516403.1	scaffold1109	13812	TT	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90058_A_13819	NW_004516403.1	scaffold1109	13819	TT	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90059_A_13916	NW_004516403.1	scaffold1109	13916	TT	GG	GG	NON_SYNONYMOUS_CODING	101508850	pectinesterase inhibitor-like
SNP_90061_A_14045	NW_004516403.1	scaffold1109	14045	CC	TT	TT	URR	101508850	pectinesterase inhibitor-like
SNP_90063_A_14091	NW_004516403.1	scaffold1109	14091	GG	TT	TT	URR	101508850	pectinesterase inhibitor-like
SNP_90064_A_14122	NW_004516403.1	scaffold1109	14122	CC	TT	TT	URR	101508850	pectinesterase inhibitor-like
SNP_90065_A_14184	NW_004516403.1	scaffold1109	14184	TT	CC	CC	URR	101508850	pectinesterase inhibitor-like
SNP_90066_A_14191	NW_004516403.1	scaffold1109	14191	GG	AA	AA	URR	101508850	pectinesterase inhibitor-like
SNP_90067_A_43827	NW_004516403.1	scaffold1109	43827	TT	AA	AA	URR	101509504	pectinesterase/pectinesterase inhibitor-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90068_A_65469	NW_004516403.1	scaffold1109	65469	TT	CC	CC	INTERGENIC			
SNP_90070_A_97696	NW_004516403.1	scaffold1109	97696	TT	GG	GG	INTERGENIC			
SNP_90071_A_97767	NW_004516403.1	scaffold1109	97767	GG	AA	AA	INTERGENIC			
SNP_90072_A_98234	NW_004516403.1	scaffold1109	98234	TT	GG	GG	INTERGENIC			
SNP_90073_A_98246	NW_004516403.1	scaffold1109	98246	GG	AA	AA	INTERGENIC			
SNP_90074_A_109162	NW_004516403.1	scaffold1109	109162	CC	GG	GG	INTERGENIC			
SNP_90076_A_114282	NW_004516403.1	scaffold1109	114282	GG	AA	AA	INTERGENIC			
SNP_90078_A_149884	NW_004516403.1	scaffold1109	149884	AA	CC	CC	INTERGENIC			
SNP_90079_A_149906	NW_004516403.1	scaffold1109	149906	GG	CC	CC	INTERGENIC			
SNP_90080_A_149908	NW_004516403.1	scaffold1109	149908	TT	CC	CC	INTERGENIC			
SNP_90081_A_149957	NW_004516403.1	scaffold1109	149957	GG	AA	AA	INTERGENIC			
SNP_90082_A_150138	NW_004516403.1	scaffold1109	150138	AA	TT	TT	INTERGENIC			
SNP_90083_A_150145	NW_004516403.1	scaffold1109	150145	GG	TT	TT	INTERGENIC			
SNP_90084_A_4286	NW_004516405.1	scaffold1111	4286	AA	CC	CC	INTERGENIC			
SNP_90085_A_4686	NW_004516405.1	scaffold1111	4686	TT	CC	CC	INTERGENIC			
SNP_90086_A_4845	NW_004516405.1	scaffold1111	4845	TT	CC	CC	INTERGENIC			
SNP_90087_A_6187	NW_004516405.1	scaffold1111	6187	CC	TT	TT	INTERGENIC			
SNP_90088_A_7564	NW_004516405.1	scaffold1111	7564	GG	CC	CC	INTERGENIC			
SNP_90089_A_11273	NW_004516405.1	scaffold1111	11273	GG	AA	AA	INTERGENIC			
SNP_90090_A_22129	NW_004516405.1	scaffold1111	22129	TT	GG	GG	INTERGENIC			
SNP_90091_A_26710	NW_004516405.1	scaffold1111	26710	AA	GG	GG	INTERGENIC			
SNP_90092_A_26723	NW_004516405.1	scaffold1111	26723	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90093_A_26726	NW_004516405.1	scaffold1111	26726	AA	GG	GG	INTERGENIC			
SNP_90094_A_26736	NW_004516405.1	scaffold1111	26736	GG	TT	TT	INTERGENIC			
SNP_90095_A_26977	NW_004516405.1	scaffold1111	26977	AA	TT	TT	INTERGENIC			
SNP_90096_A_27869	NW_004516405.1	scaffold1111	27869	GG	CC	CC	INTERGENIC			
SNP_90097_A_27941	NW_004516405.1	scaffold1111	27941	GG	TT	TT	INTERGENIC			
SNP_90098_A_27970	NW_004516405.1	scaffold1111	27970	GG	AA	AA	INTERGENIC			
SNP_90099_A_28155	NW_004516405.1	scaffold1111	28155	TT	CC	CC	INTERGENIC			
SNP_90100_A_28260	NW_004516405.1	scaffold1111	28260	TT	CC	CC	INTERGENIC			
SNP_90101_A_11500	NW_004516406.1	scaffold1113	11500	TT	AA	AA	INTERGENIC			
SNP_90102_A_11537	NW_004516406.1	scaffold1113	11537	CC	TT	TT	INTERGENIC			
SNP_90103_A_11540	NW_004516406.1	scaffold1113	11540	CC	AA	AA	INTERGENIC			
SNP_90104_A_11632	NW_004516406.1	scaffold1113	11632	CC	TT	TT	INTERGENIC			
SNP_90105_A_11712	NW_004516406.1	scaffold1113	11712	CC	TT	TT	INTERGENIC			
SNP_90106_A_11714	NW_004516406.1	scaffold1113	11714	AA	CC	CC	INTERGENIC			
SNP_90107_A_53605	NW_004516407.1	scaffold1114	53605	GG	AA	AA	INTERGENIC			
SNP_90108_A_72037	NW_004516407.1	scaffold1114	72037	TT	GG	GG	INTERGENIC			
SNP_90109_A_72089	NW_004516407.1	scaffold1114	72089	CC	AA	AA	INTERGENIC			
SNP_90110_A_82160	NW_004516407.1	scaffold1114	82160	AA	TT	TT	INTERGENIC			
SNP_90111_A_104534	NW_004516407.1	scaffold1114	104534	GG	AA	AA	INTERGENIC			
SNP_90112_A_385	NW_004516408.1	scaffold1115	385	CC	GG	GG	INTERGENIC			
SNP_90113_A_397	NW_004516408.1	scaffold1115	397	AA	CC	CC	INTERGENIC			
SNP_90114_A_555	NW_004516408.1	scaffold1115	555	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90115_A_682	NW_004516408.1	scaffold11115	682	AA	TT	TT	INTERGENIC			
SNP_90116_A_814	NW_004516408.1	scaffold11115	814	GG	AA	AA	INTERGENIC			
SNP_90118_A_123431	NW_004516408.1	scaffold11115	123431	GG	CC	TT	INTERGENIC			
SNP_90119_A_123491	NW_004516408.1	scaffold11115	123491	TT	GG	GG	INTERGENIC			
SNP_90120_A_123570	NW_004516408.1	scaffold11115	123570	AA	GG	GG	INTERGENIC			
SNP_90121_A_2820	NW_004516409.1	scaffold11116	2820	TT	CC	CC	INTERGENIC			
SNP_90122_A_2860	NW_004516409.1	scaffold11116	2860	TT	CC	CC	INTERGENIC			
SNP_90123_A_2879	NW_004516409.1	scaffold11116	2879	AA	GG	GG	INTERGENIC			
SNP_90124_A_8034	NW_004516409.1	scaffold11116	8034	CC	GG	GG	INTERGENIC			
SNP_90125_A_16216	NW_004516409.1	scaffold11116	16216	GG	AA	AA	INTERGENIC			
SNP_90126_A_16329	NW_004516409.1	scaffold11116	16329	CC	TT	TT	INTERGENIC			
SNP_90127_A_16351	NW_004516409.1	scaffold11116	16351	AA	GG	GG	INTERGENIC			
SNP_90128_A_16356	NW_004516409.1	scaffold11116	16356	TT	AA	AA	INTERGENIC			
SNP_90129_A_16619	NW_004516409.1	scaffold11116	16619	GG	AA	AA	INTERGENIC			
SNP_90130_A_16654	NW_004516409.1	scaffold11116	16654	AA	GG	GG	INTERGENIC			
SNP_90131_A_16678	NW_004516409.1	scaffold11116	16678	CC	TT	TT	INTERGENIC			
SNP_90132_A_16687	NW_004516409.1	scaffold11116	16687	AA	TT	TT	INTERGENIC			
SNP_90134_A_16759	NW_004516409.1	scaffold11116	16759	GG	AA	AA	INTERGENIC			
SNP_90135_A_19312	NW_004516409.1	scaffold11116	19312	TT	AA	AA	INTERGENIC			
SNP_90136_A_19350	NW_004516409.1	scaffold11116	19350	CC	TT	TT	INTERGENIC			
SNP_90137_A_19623	NW_004516409.1	scaffold11116	19623	TT	CC	CC	INTERGENIC			
SNP_90138_A_24287	NW_004516409.1	scaffold11116	24287	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90139_A_25273	NW_004516409.1	scaffold11116	25273	GG	AA	AA	INTERGENIC			
SNP_90140_A_25299	NW_004516409.1	scaffold11116	25299	GG	AA	AA	INTERGENIC			
SNP_90141_A_25645	NW_004516409.1	scaffold11116	25645	CC	TT	TT	INTERGENIC			
SNP_90142_A_25709	NW_004516409.1	scaffold11116	25709	CC	AA	AA	INTERGENIC			
SNP_90143_A_25737	NW_004516409.1	scaffold11116	25737	TT	CC	CC	INTERGENIC			
SNP_90144_A_25755	NW_004516409.1	scaffold11116	25755	TT	CC	CC	INTERGENIC			
SNP_90145_A_25757	NW_004516409.1	scaffold11116	25757	AA	GG	GG	INTERGENIC			
SNP_90146_A_25773	NW_004516409.1	scaffold11116	25773	GG	AA	AA	INTERGENIC			
SNP_90147_A_28320	NW_004516409.1	scaffold11116	28320	GG	AA	AA	INTERGENIC			
SNP_90148_A_29050	NW_004516409.1	scaffold11116	29050	GG	CC	CC	INTERGENIC			
SNP_90149_A_29278	NW_004516409.1	scaffold11116	29278	CC	TT	TT	INTERGENIC			
SNP_90150_A_29349	NW_004516409.1	scaffold11116	29349	CC	GG	GG	INTERGENIC			
SNP_90151_A_29405	NW_004516409.1	scaffold11116	29405	CC	TT	TT	INTERGENIC			
SNP_90152_A_29798	NW_004516409.1	scaffold11116	29798	CC	TT	TT	INTERGENIC			
SNP_90153_A_29800	NW_004516409.1	scaffold11116	29800	GG	TT	TT	INTERGENIC			
SNP_90154_A_29890	NW_004516409.1	scaffold11116	29890	AA	CC	CC	INTERGENIC			
SNP_90156_A_30086	NW_004516409.1	scaffold11116	30086	AA	CC	CC	INTERGENIC			
SNP_90157_A_31161	NW_004516409.1	scaffold11116	31161	TT	GG	GG	INTERGENIC			
SNP_90158_A_31433	NW_004516409.1	scaffold11116	31433	TT	CC	CC	INTERGENIC			
SNP_90159_A_31530	NW_004516409.1	scaffold11116	31530	GG	AA	AA	INTERGENIC			
SNP_90160_A_32461	NW_004516409.1	scaffold11116	32461	TT	AA	AA	INTERGENIC			
SNP_90162_A_45098	NW_004516409.1	scaffold11116	45098	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90163_A_59894	NW_004516409.1	scaffold11116	59894	GG	AA	AA	INTERGENIC			
SNP_90164_A_70670	NW_004516409.1	scaffold11116	70670	CC	TT	TT	INTERGENIC			
SNP_90165_A_70754	NW_004516409.1	scaffold11116	70754	CC	TT	TT	INTERGENIC			
SNP_90166_A_70760	NW_004516409.1	scaffold11116	70760	CC	TT	TT	INTERGENIC			
SNP_90168_A_70823	NW_004516409.1	scaffold11116	70823	AA	GG	GG	INTERGENIC			
SNP_90169_A_70842	NW_004516409.1	scaffold11116	70842	AA	TT	TT	INTERGENIC			
SNP_90170_A_70845	NW_004516409.1	scaffold11116	70845	TT	CC	CC	INTERGENIC			
SNP_90171_A_71018	NW_004516409.1	scaffold11116	71018	TT	CC	CC	INTERGENIC			
SNP_90172_A_71150	NW_004516409.1	scaffold11116	71150	AA	GG	GG	INTERGENIC			
SNP_90173_A_71918	NW_004516409.1	scaffold11116	71918	GG	CC	CC	INTERGENIC			
SNP_90174_A_73687	NW_004516409.1	scaffold11116	73687	CC	AA	AA	INTERGENIC			
SNP_90175_A_78051	NW_004516409.1	scaffold11116	78051	GG	TT	TT	INTERGENIC			
SNP_90176_A_78303	NW_004516409.1	scaffold11116	78303	TT	GG	GG	INTERGENIC			
SNP_90177_A_79206	NW_004516409.1	scaffold11116	79206	AA	GG	GG	INTERGENIC			
SNP_90178_A_79695	NW_004516409.1	scaffold11116	79695	CC	TT	TT	INTERGENIC			
SNP_90179_A_79706	NW_004516409.1	scaffold11116	79706	CC	TT	TT	INTERGENIC			
SNP_90180_A_94701	NW_004516409.1	scaffold11116	94701	TT	CC	CC	INTERGENIC			
SNP_90181_A_94717	NW_004516409.1	scaffold11116	94717	AA	GG	GG	INTERGENIC			
SNP_90182_A_94730	NW_004516409.1	scaffold11116	94730	TT	GG	GG	INTERGENIC			
SNP_90183_A_94816	NW_004516409.1	scaffold11116	94816	AA	CC	CC	INTERGENIC			
SNP_90184_A_94820	NW_004516409.1	scaffold11116	94820	GG	AA	AA	INTERGENIC			
SNP_90186_A_94983	NW_004516409.1	scaffold11116	94983	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90187_A_95008	NW_004516409.1	scaffold1116	95008	CC	TT	TT	INTERGENIC		
SNP_90188_A_118009	NW_004516409.1	scaffold1116	118009	TT	CC	CC	INTERGENIC		
SNP_90189_A_118307	NW_004516409.1	scaffold1116	118307	GG	CC	CC	INTERGENIC		
SNP_90190_A_118320	NW_004516409.1	scaffold1116	118320	TT	CC	CC	INTERGENIC		
SNP_90191_A_118412	NW_004516409.1	scaffold1116	118412	GG	CC	CC	INTERGENIC		
SNP_90192_A_118442	NW_004516409.1	scaffold1116	118442	AA	CC	CC	INTERGENIC		
SNP_90193_A_118649	NW_004516409.1	scaffold1116	118649	CC	TT	TT	INTERGENIC		
SNP_90194_A_120845	NW_004516409.1	scaffold1116	120845	GG	AA	AA	INTERGENIC		
SNP_90195_A_120868	NW_004516409.1	scaffold1116	120868	AA	GG	GG	INTERGENIC		
SNP_90196_A_122507	NW_004516409.1	scaffold1116	122507	CC	AA	AA	INTERGENIC		
SNP_90197_A_122560	NW_004516409.1	scaffold1116	122560	AA	GG	GG	INTERGENIC		
SNP_90198_A_122772	NW_004516409.1	scaffold1116	122772	GG	AA	AA	INTERGENIC		
SNP_90199_A_133784	NW_004516409.1	scaffold1116	133784	GG	AA	AA	URR	101489400	uncharacterized LOC101489400
SNP_90200_A_135371	NW_004516409.1	scaffold1116	135371	AA	GG	GG	INTERGENIC		
SNP_90201_A_136041	NW_004516409.1	scaffold1116	136041	TT	CC	CC	INTERGENIC		
SNP_90202_A_139296	NW_004516409.1	scaffold1116	139296	CC	TT	TT	URR	101489934	Unknown function
SNP_90203_A_141558	NW_004516409.1	scaffold1116	141558	TT	AA	AA	INTERGENIC		
SNP_90204_A_144836	NW_004516409.1	scaffold1116	144836	AA	GG	GG	INTERGENIC		
SNP_90205_A_144845	NW_004516409.1	scaffold1116	144845	AA	TT	TT	INTERGENIC		
SNP_90206_A_144854	NW_004516409.1	scaffold1116	144854	AA	GG	GG	INTERGENIC		
SNP_90207_A_144869	NW_004516409.1	scaffold1116	144869	TT	CC	CC	INTERGENIC		
SNP_90208_A_144987	NW_004516409.1	scaffold1116	144987	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90209_A_145037	NW_004516409.1	scaffold11116	145037	AA	CC	CC	INTERGENIC		
SNP_90210_A_1747	NW_004516410.1	scaffold11118	1747	GG	TT	TT	NON_SYNONYMOUS_CODING	id209822	Unknown function
SNP_90211_A_9174	NW_004516410.1	scaffold11118	9174	TT	AA	AA	INTERGENIC		
SNP_90212_A_9185	NW_004516410.1	scaffold11118	9185	AA	GG	GG	INTERGENIC		
SNP_90213_A_9556	NW_004516410.1	scaffold11118	9556	CC	TT	TT	INTERGENIC		
SNP_90214_A_9585	NW_004516410.1	scaffold11118	9585	TT	CC	CC	INTERGENIC		
SNP_90215_A_19003	NW_004516410.1	scaffold11118	19003	TT	CC	CC	INTERGENIC		
SNP_90216_A_24116	NW_004516410.1	scaffold11118	24116	CC	TT	TT	INTERGENIC		
SNP_90217_A_26185	NW_004516410.1	scaffold11118	26185	AA	GG	GG	INTERGENIC		
SNP_90218_A_26209	NW_004516410.1	scaffold11118	26209	TT	CC	CC	INTERGENIC		
SNP_90219_A_26230	NW_004516410.1	scaffold11118	26230	TT	AA	AA	INTERGENIC		
SNP_90220_A_26232	NW_004516410.1	scaffold11118	26232	AA	GG	GG	INTERGENIC		
SNP_90221_A_26239	NW_004516410.1	scaffold11118	26239	GG	AA	AA	INTERGENIC		
SNP_90222_A_26244	NW_004516410.1	scaffold11118	26244	AA	GG	GG	INTERGENIC		
SNP_90223_A_26357	NW_004516410.1	scaffold11118	26357	TT	CC	CC	INTERGENIC		
SNP_90224_A_26378	NW_004516410.1	scaffold11118	26378	AA	GG	GG	INTERGENIC		
SNP_90225_A_26383	NW_004516410.1	scaffold11118	26383	GG	AA	AA	INTERGENIC		
SNP_90226_A_30315	NW_004516410.1	scaffold11118	30315	CC	TT	TT	INTERGENIC		
SNP_90227_A_30369	NW_004516410.1	scaffold11118	30369	GG	AA	AA	INTERGENIC		
SNP_90228_A_30588	NW_004516410.1	scaffold11118	30588	TT	CC	CC	INTERGENIC		
SNP_90229_A_32507	NW_004516410.1	scaffold11118	32507	TT	CC	CC	INTERGENIC		
SNP_90230_A_33094	NW_004516410.1	scaffold11118	33094	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90231_A_7594	NW_004516411.1	scaffold1120	7594	CC	TT	TT	INTERGENIC			
SNP_90232_A_8007	NW_004516411.1	scaffold1120	8007	AA	TT	TT	INTERGENIC			
SNP_90233_A_11088	NW_004516411.1	scaffold1120	11088	GG	AA	AA	INTERGENIC			
SNP_90234_A_11098	NW_004516411.1	scaffold1120	11098	TT	CC	CC	INTERGENIC			
SNP_90235_A_11133	NW_004516411.1	scaffold1120	11133	CC	TT	TT	INTERGENIC			
SNP_90237_A_11179	NW_004516411.1	scaffold1120	11179	TT	CC	CC	INTERGENIC			
SNP_90238_A_11189	NW_004516411.1	scaffold1120	11189	CC	AA	AA	INTERGENIC			
SNP_90239_A_11295	NW_004516411.1	scaffold1120	11295	TT	CC	CC	INTERGENIC			
SNP_90240_A_11345	NW_004516411.1	scaffold1120	11345	CC	TT	TT	INTERGENIC			
SNP_90241_A_11408	NW_004516411.1	scaffold1120	11408	GG	AA	AA	INTERGENIC			
SNP_90242_A_39638	NW_004516411.1	scaffold1120	39638	GG	AA	AA	INTERGENIC			
SNP_90243_A_53261	NW_004516411.1	scaffold1120	53261	AA	GG	GG	INTERGENIC			
SNP_90244_A_58376	NW_004516411.1	scaffold1120	58376	GG	AA	AA	INTERGENIC			
SNP_90245_A_948	NW_004516414.1	scaffold1126	948	AA	TT	TT	INTERGENIC			
SNP_90246_A_4277	NW_004516414.1	scaffold1126	4277	TT	AA	AA	INTERGENIC			
SNP_90247_A_5710	NW_004516414.1	scaffold1126	5710	AA	GG	GG	INTERGENIC			
SNP_90248_A_9903	NW_004516414.1	scaffold1126	9903	TT	GG	GG	INTERGENIC			
SNP_90249_A_3628	NW_004516416.1	scaffold1128	3628	TT	CC	CC	INTERGENIC			
SNP_90250_A_16934	NW_004516416.1	scaffold1128	16934	TT	AA	AA	INTERGENIC			
SNP_90251_A_21151	NW_004516416.1	scaffold1128	21151	AA	GG	GG	INTERGENIC			
SNP_90252_A_21167	NW_004516416.1	scaffold1128	21167	GG	AA	AA	INTERGENIC			
SNP_90253_A_21526	NW_004516416.1	scaffold1128	21526	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90255_A_28155	NW_004516416.1	scaffold1128	28155	TT	AA	AA	INTERGENIC		
SNP_90258_A_58067	NW_004516416.1	scaffold1128	58067	GG	AA	AA	INTERGENIC		
SNP_90259_A_58196	NW_004516416.1	scaffold1128	58196	GG	AA	AA	INTERGENIC		
SNP_90260_A_62904	NW_004516416.1	scaffold1128	62904	CC	GG	GG	URR	101492635	Unknown function
SNP_90261_A_73394	NW_004516416.1	scaffold1128	73394	GG	AA	AA	INTERGENIC		
SNP_90262_A_83652	NW_004516416.1	scaffold1128	83652	TT	CC	CC	INTERGENIC		
SNP_90263_A_99502	NW_004516416.1	scaffold1128	99502	TT	AA	AA	INTRON	101493301	ABC transporter G family member 39-like
SNP_90264_A_99724	NW_004516416.1	scaffold1128	99724	GG	AA	AA	INTRON	101493301	ABC transporter G family member 39-like
SNP_90265_A_123449	NW_004516416.1	scaffold1128	123449	TT	CC	CC	INTERGENIC		
SNP_90266_A_123545	NW_004516416.1	scaffold1128	123545	AA	GG	GG	INTERGENIC		
SNP_90267_A_126037	NW_004516416.1	scaffold1128	126037	CC	TT	TT	INTERGENIC		
SNP_90268_A_146108	NW_004516416.1	scaffold1128	146108	CC	TT	TT	INTERGENIC		
SNP_90269_A_147091	NW_004516416.1	scaffold1128	147091	TT	CC	CC	INTERGENIC		
SNP_90271_A_152285	NW_004516416.1	scaffold1128	152285	CC	GG	GG	INTERGENIC		
SNP_90272_A_156592	NW_004516416.1	scaffold1128	156592	GG	TT	TT	INTERGENIC		
SNP_90273_A_190655	NW_004516416.1	scaffold1128	190655	GG	TT	TT	INTERGENIC		
SNP_90275_A_219836	NW_004516416.1	scaffold1128	219836	AA	TT	TT	INTERGENIC		
SNP_90276_A_229865	NW_004516416.1	scaffold1128	229865	CC	TT	TT	INTERGENIC		
SNP_90277_A_230087	NW_004516416.1	scaffold1128	230087	TT	AA	AA	INTERGENIC		
SNP_90278_A_230165	NW_004516416.1	scaffold1128	230165	AA	GG	GG	INTERGENIC		
SNP_90279_A_230172	NW_004516416.1	scaffold1128	230172	TT	GG	GG	INTERGENIC		
SNP_90280_A_230263	NW_004516416.1	scaffold1128	230263	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90281_A_230277	NW_004516416.1	scaffold1128	230277	GG	TT	TT	INTERGENIC		
SNP_90282_A_254254	NW_004516416.1	scaffold1128	254254	CC	TT	TT	INTERGENIC		
SNP_90283_A_256142	NW_004516416.1	scaffold1128	256142	AA	GG	GG	INTERGENIC		
SNP_90284_A_257700	NW_004516416.1	scaffold1128	257700	GG	AA	AA	INTERGENIC		
SNP_90285_A_264903	NW_004516416.1	scaffold1128	264903	GG	AA	AA	INTERGENIC		
SNP_90286_A_274978	NW_004516416.1	scaffold1128	274978	AA	GG	GG	DRR	101494575	alkane hydroxylase MAH1-like
SNP_90287_A_303079	NW_004516416.1	scaffold1128	303079	GG	AA	AA	INTRON	101491127	pleiotropic drug resistance protein 2-like
SNP_90288_A_336755	NW_004516416.1	scaffold1128	336755	AA	GG	GG	INTERGENIC		
SNP_90290_A_350939	NW_004516416.1	scaffold1128	350939	TT	CC	CC	INTERGENIC		
SNP_90291_A_354492	NW_004516416.1	scaffold1128	354492	GG	AA	AA	INTERGENIC		
SNP_90292_A_365234	NW_004516416.1	scaffold1128	365234	GG	TT	TT	INTERGENIC		
SNP_90295_A_449230	NW_004516416.1	scaffold1128	449230	CC	AA	AA	INTERGENIC		
SNP_90296_A_478249	NW_004516416.1	scaffold1128	478249	CC	TT	TT	INTERGENIC		
SNP_90297_A_479704	NW_004516416.1	scaffold1128	479704	GG	AA	AA	INTERGENIC		
SNP_90299_A_485484	NW_004516416.1	scaffold1128	485484	GG	AA	AA	INTERGENIC		
SNP_90300_A_485840	NW_004516416.1	scaffold1128	485840	TT	AA	AA	INTERGENIC		
SNP_90301_A_488722	NW_004516416.1	scaffold1128	488722	TT	CC	CC	INTERGENIC		
SNP_90302_A_492291	NW_004516416.1	scaffold1128	492291	GG	AA	AA	INTERGENIC		
SNP_90303_A_492339	NW_004516416.1	scaffold1128	492339	AA	GG	GG	INTERGENIC		
SNP_90304_A_492855	NW_004516416.1	scaffold1128	492855	TT	CC	CC	INTERGENIC		
SNP_90305_A_496364	NW_004516416.1	scaffold1128	496364	TT	CC	CC	INTERGENIC		
SNP_90306_A_502842	NW_004516416.1	scaffold1128	502842	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90307_A_17582	NW_004516418.1	scaffold1131	17582	AA	TT	TT	INTERGENIC		
SNP_90308_A_25975	NW_004516418.1	scaffold1131	25975	GG	TT	TT	URR	101498591	transcription factor GTE12-like
SNP_90309_A_26343	NW_004516418.1	scaffold1131	26343	TT	CC	CC	URR	101498591	transcription factor GTE12-like
SNP_90310_A_29755	NW_004516418.1	scaffold1131	29755	CC	TT	TT	INTERGENIC		
SNP_90311_A_29814	NW_004516418.1	scaffold1131	29814	TT	CC	CC	INTERGENIC		
SNP_90312_A_29848	NW_004516418.1	scaffold1131	29848	TT	CC	CC	INTERGENIC		
SNP_90313_A_30110	NW_004516418.1	scaffold1131	30110	CC	AA	AA	INTERGENIC		
SNP_90314_A_30136	NW_004516418.1	scaffold1131	30136	CC	GG	GG	INTERGENIC		
SNP_90315_A_30154	NW_004516418.1	scaffold1131	30154	AA	GG	GG	INTERGENIC		
SNP_90316_A_30175	NW_004516418.1	scaffold1131	30175	AA	GG	GG	INTERGENIC		
SNP_90317_A_30179	NW_004516418.1	scaffold1131	30179	AA	GG	GG	INTERGENIC		
SNP_90319_A_30294	NW_004516418.1	scaffold1131	30294	AA	CC	CC	INTERGENIC		
SNP_90320_A_34828	NW_004516418.1	scaffold1131	34828	GG	AA	AA	INTERGENIC		
SNP_90321_A_39163	NW_004516418.1	scaffold1131	39163	CC	TT	TT	INTERGENIC		
SNP_90322_A_39220	NW_004516418.1	scaffold1131	39220	CC	TT	TT	INTERGENIC		
SNP_90323_A_39221	NW_004516418.1	scaffold1131	39221	CC	TT	TT	INTERGENIC		
SNP_90324_A_39268	NW_004516418.1	scaffold1131	39268	AA	GG	GG	INTERGENIC		
SNP_90325_A_39277	NW_004516418.1	scaffold1131	39277	TT	CC	CC	INTERGENIC		
SNP_90326_A_39370	NW_004516418.1	scaffold1131	39370	AA	GG	GG	INTERGENIC		
SNP_90327_A_39462	NW_004516418.1	scaffold1131	39462	CC	TT	TT	INTERGENIC		
SNP_90328_A_47595	NW_004516418.1	scaffold1131	47595	TT	CC	CC	INTERGENIC		
SNP_90329_A_47954	NW_004516418.1	scaffold1131	47954	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90330_A_56333	NW_004516418.1	scaffold1131	56333	GG	AA	AA	DRR	101499248	transcription factor GTE12-like
SNP_90331_A_56356	NW_004516418.1	scaffold1131	56356	AA	TT	TT	DRR	101499248	transcription factor GTE12-like
SNP_90332_A_56357	NW_004516418.1	scaffold1131	56357	AA	CC	CC	DRR	101499248	transcription factor GTE12-like
SNP_90333_A_56360	NW_004516418.1	scaffold1131	56360	GG	AA	AA	DRR	101499248	transcription factor GTE12-like
SNP_90334_A_58820	NW_004516418.1	scaffold1131	58820	CC	TT	TT	URR	101499248	transcription factor GTE12-like
SNP_90335_A_59198	NW_004516418.1	scaffold1131	59198	AA	TT	TT	URR	101499248	transcription factor GTE12-like
SNP_90337_A_81684	NW_004516418.1	scaffold1131	81684	AA	GG	GG	INTERGENIC		
SNP_90338_A_81840	NW_004516418.1	scaffold1131	81840	AA	GG	GG	INTERGENIC		
SNP_90339_A_82004	NW_004516418.1	scaffold1131	82004	TT	GG	GG	INTERGENIC		
SNP_90340_A_99835	NW_004516418.1	scaffold1131	99835	TT	AA	AA	INTERGENIC		
SNP_90341_A_139954	NW_004516418.1	scaffold1131	139954	GG	AA	AA	INTERGENIC		
SNP_90342_A_146747	NW_004516418.1	scaffold1131	146747	GG	AA	AA	INTERGENIC		
SNP_90343_A_1632	NW_004516420.1	scaffold1133	1632	CC	GG	GG	INTERGENIC		
SNP_90344_A_1666	NW_004516420.1	scaffold1133	1666	TT	CC	CC	INTERGENIC		
SNP_90345_A_7551	NW_004516420.1	scaffold1133	7551	TT	AA	AA	INTERGENIC		
SNP_90346_A_7557	NW_004516420.1	scaffold1133	7557	GG	AA	AA	INTERGENIC		
SNP_90347_A_7566	NW_004516420.1	scaffold1133	7566	GG	AA	AA	INTERGENIC		
SNP_90348_A_8680	NW_004516420.1	scaffold1133	8680	AA	TT	TT	INTERGENIC		
SNP_90349_A_18262	NW_004516420.1	scaffold1133	18262	TT	GG	GG	INTERGENIC		
SNP_90350_A_18322	NW_004516420.1	scaffold1133	18322	CC	TT	TT	INTERGENIC		
SNP_90351_A_18440	NW_004516420.1	scaffold1133	18440	CC	GG	GG	INTERGENIC		
SNP_90352_A_18462	NW_004516420.1	scaffold1133	18462	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90353_A_18516	NW_004516420.1	scaffold1133	18516	CC	GG	GG	INTERGENIC		
SNP_90354_A_18630	NW_004516420.1	scaffold1133	18630	CC	TT	TT	INTERGENIC		
SNP_90355_A_18686	NW_004516420.1	scaffold1133	18686	CC	GG	GG	INTERGENIC		
SNP_90356_A_18721	NW_004516420.1	scaffold1133	18721	AA	TT	TT	INTERGENIC		
SNP_90357_A_18814	NW_004516420.1	scaffold1133	18814	TT	GG	GG	INTERGENIC		
SNP_90358_A_18828	NW_004516420.1	scaffold1133	18828	CC	TT	TT	INTERGENIC		
SNP_90359_A_18944	NW_004516420.1	scaffold1133	18944	TT	GG	GG	INTERGENIC		
SNP_90360_A_18952	NW_004516420.1	scaffold1133	18952	TT	AA	AA	INTERGENIC		
SNP_90361_A_19044	NW_004516420.1	scaffold1133	19044	TT	GG	GG	INTERGENIC		
SNP_90362_A_20037	NW_004516420.1	scaffold1133	20037	GG	AA	AA	INTERGENIC		
SNP_90363_A_53426	NW_004516420.1	scaffold1133	53426	CC	AA	AA	INTERGENIC		
SNP_90364_A_53434	NW_004516420.1	scaffold1133	53434	CC	TT	TT	INTERGENIC		
SNP_90365_A_58031	NW_004516420.1	scaffold1133	58031	CC	TT	TT	INTERGENIC		
SNP_90366_A_349	NW_004516421.1	scaffold1134	349	CC	GG	GG	NON_SYNONYMOUS_CODING	101501679	Unknown function
SNP_90367_A_435	NW_004516421.1	scaffold1134	435	CC	TT	TT	SYNONYMOUS_CODING	101501679	Unknown function
SNP_90368_A_4564	NW_004516421.1	scaffold1134	4564	TT	AA	AA	INTERGENIC		
SNP_90369_A_16095	NW_004516421.1	scaffold1134	16095	TT	CC	CC	INTERGENIC		
SNP_90370_A_938	NW_004516422.1	scaffold1135	938	GG	AA	AA	INTERGENIC		
SNP_90371_A_1781	NW_004516422.1	scaffold1135	1781	TT	CC	CC	INTERGENIC		
SNP_90372_A_9107	NW_004516422.1	scaffold1135	9107	CC	TT	TT	INTERGENIC		
SNP_90373_A_9211	NW_004516422.1	scaffold1135	9211	AA	GG	GG	INTERGENIC		
SNP_90374_A_9470	NW_004516422.1	scaffold1135	9470	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90376_A_9990	NW_004516422.1	scaffold1135	9990	GG	AA	AA	INTERGENIC		
SNP_90377_A_10131	NW_004516422.1	scaffold1135	10131	AA	TT	TT	INTERGENIC		
SNP_90378_A_10345	NW_004516422.1	scaffold1135	10345	GG	AA	AA	INTERGENIC		
SNP_90379_A_10597	NW_004516422.1	scaffold1135	10597	GG	AA	AA	INTERGENIC		
SNP_90380_A_10601	NW_004516422.1	scaffold1135	10601	TT	CC	CC	INTERGENIC		
SNP_90381_A_10955	NW_004516422.1	scaffold1135	10955	GG	AA	AA	INTERGENIC		
SNP_90382_A_11584	NW_004516422.1	scaffold1135	11584	TT	CC	CC	INTERGENIC		
SNP_90383_A_11589	NW_004516422.1	scaffold1135	11589	GG	TT	TT	INTERGENIC		
SNP_90384_A_13105	NW_004516422.1	scaffold1135	13105	CC	GG	GG	DRR	101503282	uncharacterized LOC101503282
SNP_90385_A_13153	NW_004516422.1	scaffold1135	13153	CC	TT	TT	DRR	101503282	uncharacterized LOC101503282
SNP_90386_A_13367	NW_004516422.1	scaffold1135	13367	CC	TT	TT	DRR	101503282	uncharacterized LOC101503282
SNP_90387_A_13911	NW_004516422.1	scaffold1135	13911	GG	AA	AA	NON_SYNONYMOUS_CODING	101503282	uncharacterized LOC101503282
SNP_90389_A_14650	NW_004516422.1	scaffold1135	14650	GG	AA	AA	URR	101503282	uncharacterized LOC101503282
SNP_90390_A_14696	NW_004516422.1	scaffold1135	14696	TT	CC	CC	URR	101503282	uncharacterized LOC101503282
SNP_90391_A_15078	NW_004516422.1	scaffold1135	15078	CC	TT	TT	URR	101503282	uncharacterized LOC101503282
SNP_90392_A_15802	NW_004516422.1	scaffold1135	15802	AA	CC	CC	URR	101503282	uncharacterized LOC101503282
SNP_90393_A_15914	NW_004516422.1	scaffold1135	15914	AA	GG	GG	URR	101503282	uncharacterized LOC101503282
SNP_90394_A_16844	NW_004516422.1	scaffold1135	16844	TT	AA	AA	INTERGENIC		
SNP_90395_A_17124	NW_004516422.1	scaffold1135	17124	GG	AA	AA	INTERGENIC		
SNP_90396_A_17580	NW_004516422.1	scaffold1135	17580	TT	CC	CC	INTERGENIC		
SNP_90397_A_32374	NW_004516422.1	scaffold1135	32374	TT	CC	CC	INTERGENIC		
SNP_90398_A_32391	NW_004516422.1	scaffold1135	32391	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90399_A_32437	NW_004516422.1	scaffold1135	32437	CC	TT	TT	INTERGENIC		
SNP_90400_A_32585	NW_004516422.1	scaffold1135	32585	AA	GG	GG	INTERGENIC		
SNP_90401_A_32596	NW_004516422.1	scaffold1135	32596	TT	AA	AA	INTERGENIC		
SNP_90402_A_60890	NW_004516422.1	scaffold1135	60890	GG	AA	AA	URR	101505209	uncharacterized LOC101505209
SNP_90403_A_60896	NW_004516422.1	scaffold1135	60896	CC	TT	TT	URR	101505209	uncharacterized LOC101505209
SNP_90404_A_60946	NW_004516422.1	scaffold1135	60946	AA	TT	TT	URR	101505209	uncharacterized LOC101505209
SNP_90405_A_60950	NW_004516422.1	scaffold1135	60950	TT	GG	GG	URR	101505209	uncharacterized LOC101505209
SNP_90406_A_60995	NW_004516422.1	scaffold1135	60995	AA	GG	GG	URR	101505209	uncharacterized LOC101505209
SNP_90407_A_61262	NW_004516422.1	scaffold1135	61262	AA	TT	TT	URR	101505209	uncharacterized LOC101505209
SNP_90408_A_61263	NW_004516422.1	scaffold1135	61263	AA	GG	GG	URR	101505209	uncharacterized LOC101505209
SNP_90409_A_61274	NW_004516422.1	scaffold1135	61274	TT	CC	CC	URR	101505209	uncharacterized LOC101505209
SNP_90410_A_61300	NW_004516422.1	scaffold1135	61300	AA	TT	TT	URR	101505209	uncharacterized LOC101505209
SNP_90412_A_62314	NW_004516422.1	scaffold1135	62314	TT	CC	CC	INTERGENIC		
SNP_90413_A_62319	NW_004516422.1	scaffold1135	62319	TT	CC	CC	INTERGENIC		
SNP_90414_A_62358	NW_004516422.1	scaffold1135	62358	GG	AA	AA	INTERGENIC		
SNP_90415_A_63819	NW_004516422.1	scaffold1135	63819	GG	TT	TT	INTERGENIC		
SNP_90417_A_68459	NW_004516422.1	scaffold1135	68459	TT	CC	CC	INTERGENIC		
SNP_90418_A_68793	NW_004516422.1	scaffold1135	68793	CC	TT	TT	INTERGENIC		
SNP_90419_A_71395	NW_004516422.1	scaffold1135	71395	GG	CC	CC	INTERGENIC		
SNP_90420_A_71396	NW_004516422.1	scaffold1135	71396	TT	CC	CC	INTERGENIC		
SNP_90421_A_71593	NW_004516422.1	scaffold1135	71593	AA	CC	CC	INTERGENIC		
SNP_90422_A_71892	NW_004516422.1	scaffold1135	71892	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90423_A_71899	NW_004516422.1	scaffold1135	71899	GG	TT	TT	INTERGENIC			
SNP_90425_A_72311	NW_004516422.1	scaffold1135	72311	CC	TT	TT	INTERGENIC			
SNP_90427_A_74533	NW_004516422.1	scaffold1135	74533	AA	TT	TT	INTERGENIC			
SNP_90428_A_74802	NW_004516422.1	scaffold1135	74802	AA	GG	GG	INTERGENIC			
SNP_90429_A_74950	NW_004516422.1	scaffold1135	74950	TT	CC	CC	INTERGENIC			
SNP_90430_A_75514	NW_004516422.1	scaffold1135	75514	CC	AA	AA	INTERGENIC			
SNP_90431_A_806	NW_004516425.1	scaffold1139	806	AA	CC	CC	INTERGENIC			
SNP_90432_A_817	NW_004516425.1	scaffold1139	817	TT	CC	CC	INTERGENIC			
SNP_90433_A_842	NW_004516425.1	scaffold1139	842	AA	GG	GG	INTERGENIC			
SNP_90434_A_874	NW_004516425.1	scaffold1139	874	GG	TT	TT	INTERGENIC			
SNP_90435_A_886	NW_004516425.1	scaffold1139	886	TT	CC	CC	INTERGENIC			
SNP_90436_A_939	NW_004516425.1	scaffold1139	939	GG	AA	AA	INTERGENIC			
SNP_90437_A_1116	NW_004516425.1	scaffold1139	1116	TT	CC	CC	INTERGENIC			
SNP_90438_A_1117	NW_004516425.1	scaffold1139	1117	CC	AA	AA	INTERGENIC			
SNP_90439_A_1234	NW_004516425.1	scaffold1139	1234	CC	AA	AA	INTERGENIC			
SNP_90440_A_1235	NW_004516425.1	scaffold1139	1235	AA	GG	GG	INTERGENIC			
SNP_90441_A_1253	NW_004516425.1	scaffold1139	1253	AA	GG	GG	INTERGENIC			
SNP_90443_A_1359	NW_004516425.1	scaffold1139	1359	CC	AA	AA	INTERGENIC			
SNP_90445_A_1409	NW_004516425.1	scaffold1139	1409	TT	AA	AA	INTERGENIC			
SNP_90446_A_1420	NW_004516425.1	scaffold1139	1420	AA	GG	GG	INTERGENIC			
SNP_90448_A_1701	NW_004516425.1	scaffold1139	1701	TT	AA	AA	INTERGENIC			
SNP_90449_A_1764	NW_004516425.1	scaffold1139	1764	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90450_A_1813	NW_004516425.1	scaffold1139	1813	GG	CC	CC	INTERGENIC			
SNP_90451_A_1828	NW_004516425.1	scaffold1139	1828	CC	TT	TT	INTERGENIC			
SNP_90452_A_1845	NW_004516425.1	scaffold1139	1845	TT	GG	GG	INTERGENIC			
SNP_90453_A_1884	NW_004516425.1	scaffold1139	1884	GG	CC	CC	INTERGENIC			
SNP_90454_A_1892	NW_004516425.1	scaffold1139	1892	TT	CC	CC	INTERGENIC			
SNP_90455_A_1926	NW_004516425.1	scaffold1139	1926	CC	TT	TT	INTERGENIC			
SNP_90456_A_1970	NW_004516425.1	scaffold1139	1970	AA	GG	GG	INTERGENIC			
SNP_90457_A_1990	NW_004516425.1	scaffold1139	1990	CC	TT	TT	INTERGENIC			
SNP_90459_A_5705	NW_004516427.1	scaffold1142	5705	CC	TT	TT	INTERGENIC			
SNP_90460_A_18586	NW_004516427.1	scaffold1142	18586	TT	CC	CC	INTERGENIC			
SNP_90461_A_18959	NW_004516427.1	scaffold1142	18959	AA	TT	TT	INTERGENIC			
SNP_90462_A_2321	NW_004516428.1	scaffold1143	2321	AA	GG	GG	INTERGENIC			
SNP_90463_A_2363	NW_004516428.1	scaffold1143	2363	AA	GG	GG	INTERGENIC			
SNP_90464_A_2152	NW_004516429.1	scaffold1145	2152	TT	CC	CC	INTERGENIC			
SNP_90465_A_2368	NW_004516429.1	scaffold1145	2368	TT	CC	CC	INTERGENIC			
SNP_90466_A_2422	NW_004516429.1	scaffold1145	2422	TT	CC	GG	INTERGENIC			
SNP_90467_A_2514	NW_004516429.1	scaffold1145	2514	CC	TT	TT	INTERGENIC			
SNP_90468_A_2535	NW_004516429.1	scaffold1145	2535	TT	CC	CC	INTERGENIC			
SNP_90469_A_2680	NW_004516429.1	scaffold1145	2680	TT	CC	CC	INTERGENIC			
SNP_90470_A_2709	NW_004516429.1	scaffold1145	2709	TT	CC	CC	INTERGENIC			
SNP_90471_A_3304	NW_004516429.1	scaffold1145	3304	GG	TT	TT	INTERGENIC			
SNP_90473_A_4073	NW_004516429.1	scaffold1145	4073	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90474_A_4286	NW_004516429.1	scaffold1145	4286	TT	GG	GG	INTERGENIC			
SNP_90475_A_4287	NW_004516429.1	scaffold1145	4287	CC	TT	TT	INTERGENIC			
SNP_90476_A_4320	NW_004516429.1	scaffold1145	4320	GG	CC	CC	INTERGENIC			
SNP_90478_A_7444	NW_004516429.1	scaffold1145	7444	TT	CC	CC	INTERGENIC			
SNP_90479_A_7446	NW_004516429.1	scaffold1145	7446	TT	GG	GG	INTERGENIC			
SNP_90480_A_15698	NW_004516429.1	scaffold1145	15698	AA	GG	GG	INTERGENIC			
SNP_90481_A_15712	NW_004516429.1	scaffold1145	15712	AA	TT	TT	INTERGENIC			
SNP_90483_A_16045	NW_004516429.1	scaffold1145	16045	CC	GG	GG	INTERGENIC			
SNP_90484_A_16115	NW_004516429.1	scaffold1145	16115	AA	TT	TT	INTERGENIC			
SNP_90485_A_16393	NW_004516429.1	scaffold1145	16393	AA	TT	TT	INTERGENIC			
SNP_90486_A_16413	NW_004516429.1	scaffold1145	16413	AA	TT	TT	INTERGENIC			
SNP_90488_A_17418	NW_004516429.1	scaffold1145	17418	TT	AA	AA	INTERGENIC			
SNP_90489_A_17636	NW_004516429.1	scaffold1145	17636	GG	AA	AA	INTERGENIC			
SNP_90490_A_17690	NW_004516429.1	scaffold1145	17690	TT	CC	CC	INTERGENIC			
SNP_90491_A_26375	NW_004516429.1	scaffold1145	26375	GG	AA	AA	INTERGENIC			
SNP_90492_A_26522	NW_004516429.1	scaffold1145	26522	CC	TT	TT	INTERGENIC			
SNP_90493_A_26849	NW_004516429.1	scaffold1145	26849	AA	GG	GG	INTERGENIC			
SNP_90494_A_39729	NW_004516429.1	scaffold1145	39729	GG	AA	AA	INTERGENIC			
SNP_90496_A_81439	NW_004516429.1	scaffold1145	81439	TT	CC	CC	INTERGENIC			
SNP_90497_A_81510	NW_004516429.1	scaffold1145	81510	TT	GG	GG	INTERGENIC			
SNP_90498_A_81531	NW_004516429.1	scaffold1145	81531	TT	GG	GG	INTERGENIC			
SNP_90499_A_100412	NW_004516429.1	scaffold1145	100412	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90500_A_101105	NW_004516429.1	scaffold1145	101105	CC	TT	TT	INTERGENIC			
SNP_90501_A_8014	NW_004516430.1	scaffold1147	8014	AA	TT	TT	INTERGENIC			
SNP_90502_A_8255	NW_004516430.1	scaffold1147	8255	TT	CC	CC	INTERGENIC			
SNP_90503_A_28094	NW_004516430.1	scaffold1147	28094	CC	AA	AA	INTERGENIC			
SNP_90504_A_28118	NW_004516430.1	scaffold1147	28118	AA	GG	GG	INTERGENIC			
SNP_90505_A_796	NW_004516433.1	scaffold1150	796	CC	TT	TT	INTERGENIC			
SNP_90506_A_849	NW_004516433.1	scaffold1150	849	CC	AA	AA	INTERGENIC			
SNP_90507_A_911	NW_004516433.1	scaffold1150	911	CC	AA	AA	INTERGENIC			
SNP_90508_A_1169	NW_004516433.1	scaffold1150	1169	AA	CC	CC	INTERGENIC			
SNP_90509_A_1195	NW_004516433.1	scaffold1150	1195	AA	GG	GG	INTERGENIC			
SNP_90510_A_1236	NW_004516433.1	scaffold1150	1236	TT	CC	CC	INTERGENIC			
SNP_90511_A_18772	NW_004516434.1	scaffold1151	18772	TT	AA	AA	INTERGENIC			
SNP_90513_A_19855	NW_004516434.1	scaffold1151	19855	CC	TT	TT	INTERGENIC			
SNP_90514_A_20193	NW_004516434.1	scaffold1151	20193	TT	CC	CC	INTERGENIC			
SNP_90515_A_27784	NW_004516434.1	scaffold1151	27784	TT	AA	AA	INTRON	101511756	aquaporin NIP6-1	
SNP_90516_A_29091	NW_004516434.1	scaffold1151	29091	TT	CC	CC	INTRON	101511756	aquaporin NIP6-1	
SNP_90517_A_29561	NW_004516434.1	scaffold1151	29561	GG	CC	CC	INTRON	101511756	aquaporin NIP6-1	
SNP_90518_A_175548	NW_004516434.1	scaffold1151	175548	GG	AA	AA	INTERGENIC			
SNP_90519_A_175655	NW_004516434.1	scaffold1151	175655	GG	AA	AA	INTERGENIC			
SNP_90520_A_279866	NW_004516434.1	scaffold1151	279866	CC	AA	AA	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like	
SNP_90521_A_279877	NW_004516434.1	scaffold1151	279877	AA	GG	GG	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like	
SNP_90522_A_279888	NW_004516434.1	scaffold1151	279888	GG	AA	AA	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90523_A_279896	NW_004516434.1	scaffold1151	279896	AA	TT	TT	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90524_A_279904	NW_004516434.1	scaffold1151	279904	AA	GG	GG	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90525_A_279919	NW_004516434.1	scaffold1151	279919	CC	TT	TT	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90526_A_279931	NW_004516434.1	scaffold1151	279931	AA	CC	CC	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90527_A_279948	NW_004516434.1	scaffold1151	279948	TT	CC	CC	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90528_A_280116	NW_004516434.1	scaffold1151	280116	AA	GG	GG	NON_SYNONYMOUS_CODING	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90529_A_280239	NW_004516434.1	scaffold1151	280239	TT	CC	CC	NON_SYNONYMOUS_CODING	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90530_A_281023	NW_004516434.1	scaffold1151	281023	AA	TT	TT	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90531_A_281043	NW_004516434.1	scaffold1151	281043	CC	AA	AA	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90532_A_281054	NW_004516434.1	scaffold1151	281054	TT	CC	CC	INTRON	101511219	Golgi SNAP receptor complex member 1-1-like
SNP_90533_A_9866	NW_004516435.1	scaffold1152	9866	TT	GG	GG	DRR	101513680	30S ribosomal protein 2, chloroplastic
SNP_90534_A_12647	NW_004516435.1	scaffold1152	12647	TT	GG	GG	INTERGENIC		
SNP_90535_A_13339	NW_004516435.1	scaffold1152	13339	GG	CC	CC	INTERGENIC		
SNP_90536_A_22717	NW_004516435.1	scaffold1152	22717	GG	AA	AA	INTERGENIC		
SNP_90537_A_32779	NW_004516435.1	scaffold1152	32779	TT	CC	CC	INTERGENIC		
SNP_90538_A_32814	NW_004516435.1	scaffold1152	32814	AA	TT	TT	INTERGENIC		
SNP_90539_A_32835	NW_004516435.1	scaffold1152	32835	AA	CC	CC	INTERGENIC		
SNP_90540_A_33084	NW_004516435.1	scaffold1152	33084	TT	GG	GG	INTERGENIC		
SNP_90541_A_33129	NW_004516435.1	scaffold1152	33129	AA	GG	GG	INTERGENIC		
SNP_90542_A_36519	NW_004516435.1	scaffold1152	36519	AA	GG	GG	INTERGENIC		
SNP_90543_A_77695	NW_004516435.1	scaffold1152	77695	TT	CC	CC	INTERGENIC		
SNP_90544_A_77811	NW_004516435.1	scaffold1152	77811	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90545_A_92897	NW_004516435.1	scaffold1152	92897	TT	GG	GG	INTERGENIC			
SNP_90546_A_92947	NW_004516435.1	scaffold1152	92947	AA	CC	CC	INTERGENIC			
SNP_90547_A_92996	NW_004516435.1	scaffold1152	92996	TT	AA	AA	INTERGENIC			
SNP_90548_A_115273	NW_004516435.1	scaffold1152	115273	CC	GG	GG	INTERGENIC			
SNP_90549_A_115279	NW_004516435.1	scaffold1152	115279	TT	AA	AA	INTERGENIC			
SNP_90551_A_42338	NW_004516436.1	scaffold1153	42338	GG	TT	TT	INTERGENIC			
SNP_90552_A_43770	NW_004516436.1	scaffold1153	43770	GG	TT	TT	INTERGENIC			
SNP_90553_A_61790	NW_004516436.1	scaffold1153	61790	AA	GG	GG	INTERGENIC			
SNP_90554_A_61792	NW_004516436.1	scaffold1153	61792	TT	CC	CC	INTERGENIC			
SNP_90556_A_107695	NW_004516436.1	scaffold1153	107695	TT	GG	GG	INTERGENIC			
SNP_90557_A_118442	NW_004516436.1	scaffold1153	118442	AA	GG	GG	INTERGENIC			
SNP_90558_A_128498	NW_004516436.1	scaffold1153	128498	TT	AA	AA	INTERGENIC			
SNP_90559_A_158	NW_004516439.1	scaffold1156	158	CC	AA	AA	INTERGENIC			
SNP_90560_A_186	NW_004516439.1	scaffold1156	186	TT	GG	GG	INTERGENIC			
SNP_90561_A_507	NW_004516439.1	scaffold1156	507	TT	CC	CC	INTERGENIC			
SNP_90562_A_628	NW_004516439.1	scaffold1156	628	TT	CC	CC	INTERGENIC			
SNP_90563_A_1482	NW_004516439.1	scaffold1156	1482	AA	GG	GG	INTERGENIC			
SNP_90564_A_1649	NW_004516439.1	scaffold1156	1649	AA	GG	GG	INTERGENIC			
SNP_90565_A_2679	NW_004516439.1	scaffold1156	2679	AA	CC	CC	INTERGENIC			
SNP_90566_A_2901	NW_004516439.1	scaffold1156	2901	AA	CC	CC	INTERGENIC			
SNP_90567_A_3051	NW_004516439.1	scaffold1156	3051	AA	GG	GG	INTERGENIC			
SNP_90568_A_3064	NW_004516439.1	scaffold1156	3064	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90569_A_3131	NW_004516439.1	scaffold1156	3131	TT	CC	CC	INTERGENIC			
SNP_90570_A_3225	NW_004516439.1	scaffold1156	3225	AA	TT	TT	INTERGENIC			
SNP_90571_A_3250	NW_004516439.1	scaffold1156	3250	TT	AA	AA	INTERGENIC			
SNP_90572_A_3291	NW_004516439.1	scaffold1156	3291	CC	TT	TT	INTERGENIC			
SNP_90573_A_3353	NW_004516439.1	scaffold1156	3353	CC	TT	TT	INTERGENIC			
SNP_90574_A_3354	NW_004516439.1	scaffold1156	3354	TT	CC	CC	INTERGENIC			
SNP_90575_A_87	NW_004516441.1	scaffold1158	87	CC	TT	TT	INTERGENIC			
SNP_90576_A_186	NW_004516441.1	scaffold1158	186	TT	GG	GG	INTERGENIC			
SNP_90577_A_199	NW_004516441.1	scaffold1158	199	CC	TT	TT	INTERGENIC			
SNP_90578_A_231	NW_004516441.1	scaffold1158	231	TT	CC	CC	INTERGENIC			
SNP_90579_A_273	NW_004516441.1	scaffold1158	273	AA	CC	CC	INTERGENIC			
SNP_90580_A_289	NW_004516441.1	scaffold1158	289	AA	CC	CC	INTERGENIC			
SNP_90581_A_291	NW_004516441.1	scaffold1158	291	GG	TT	TT	INTERGENIC			
SNP_90582_A_5169	NW_004516441.1	scaffold1158	5169	TT	GG	GG	INTERGENIC			
SNP_90583_A_5274	NW_004516441.1	scaffold1158	5274	CC	TT	TT	INTERGENIC			
SNP_90585_A_494	NW_004516443.1	scaffold1161	494	CC	AA	AA	INTERGENIC			
SNP_90586_A_2631	NW_004516443.1	scaffold1161	2631	GG	TT	TT	INTERGENIC			
SNP_90587_A_12188	NW_004516443.1	scaffold1161	12188	AA	TT	TT	INTERGENIC			
SNP_90588_A_12326	NW_004516443.1	scaffold1161	12326	AA	GG	GG	INTERGENIC			
SNP_90589_A_12343	NW_004516443.1	scaffold1161	12343	TT	CC	CC	INTERGENIC			
SNP_90590_A_12361	NW_004516443.1	scaffold1161	12361	GG	AA	AA	INTERGENIC			
SNP_90591_A_12561	NW_004516443.1	scaffold1161	12561	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90592_A_12604	NW_004516443.1	scaffold1161	12604	GG	TT	TT	INTERGENIC			
SNP_90593_A_12691	NW_004516443.1	scaffold1161	12691	AA	TT	TT	INTERGENIC			
SNP_90594_A_12735	NW_004516443.1	scaffold1161	12735	TT	AA	AA	INTERGENIC			
SNP_90596_A_12889	NW_004516443.1	scaffold1161	12889	AA	TT	TT	INTERGENIC			
SNP_90597_A_12914	NW_004516443.1	scaffold1161	12914	TT	CC	CC	INTERGENIC			
SNP_90598_A_12960	NW_004516443.1	scaffold1161	12960	AA	GG	GG	INTERGENIC			
SNP_90599_A_13014	NW_004516443.1	scaffold1161	13014	CC	AA	AA	INTERGENIC			
SNP_90600_A_13016	NW_004516443.1	scaffold1161	13016	TT	AA	AA	INTERGENIC			
SNP_90601_A_13018	NW_004516443.1	scaffold1161	13018	AA	GG	GG	INTERGENIC			
SNP_90602_A_759	NW_004516445.1	scaffold1164	759	GG	TT	TT	INTERGENIC			
SNP_90603_A_769	NW_004516445.1	scaffold1164	769	CC	AA	AA	INTERGENIC			
SNP_90604_A_980	NW_004516446.1	scaffold1165	980	TT	GG	GG	INTERGENIC			
SNP_90605_A_18254	NW_004516447.1	scaffold1166	18254	CC	AA	AA	INTERGENIC			
SNP_90606_A_46339	NW_004516447.1	scaffold1166	46339	CC	AA	AA	INTERGENIC			
SNP_90607_A_47658	NW_004516447.1	scaffold1166	47658	AA	GG	GG	INTERGENIC			
SNP_90608_A_47823	NW_004516447.1	scaffold1166	47823	AA	GG	GG	INTERGENIC			
SNP_90610_A_47907	NW_004516447.1	scaffold1166	47907	GG	AA	AA	INTERGENIC			
SNP_90611_A_48085	NW_004516447.1	scaffold1166	48085	CC	AA	AA	INTERGENIC			
SNP_90612_A_48116	NW_004516447.1	scaffold1166	48116	AA	TT	TT	INTERGENIC			
SNP_90613_A_48138	NW_004516447.1	scaffold1166	48138	GG	AA	AA	INTERGENIC			
SNP_90614_A_48184	NW_004516447.1	scaffold1166	48184	TT	CC	CC	INTERGENIC			
SNP_90615_A_1064	NW_004516450.1	scaffold1172	1064	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90616_A_1094	NW_004516450.1	scaffold1172	1094	TT	AA	AA	INTERGENIC			
SNP_90617_A_11927	NW_004516451.1	scaffold1173	11927	GG	TT	TT	INTERGENIC			
SNP_90618_A_11951	NW_004516451.1	scaffold1173	11951	CC	TT	TT	INTERGENIC			
SNP_90619_A_107	NW_004516452.1	scaffold1174	107	GG	AA	AA	INTERGENIC			
SNP_90620_A_108	NW_004516452.1	scaffold1174	108	AA	TT	TT	INTERGENIC			
SNP_90621_A_274	NW_004516452.1	scaffold1174	274	CC	GG	GG	INTERGENIC			
SNP_90622_A_809	NW_004516452.1	scaffold1174	809	TT	AA	AA	INTERGENIC			
SNP_90623_A_1399	NW_004516452.1	scaffold1174	1399	TT	AA	AA	INTERGENIC			
SNP_90624_A_1445	NW_004516452.1	scaffold1174	1445	CC	TT	TT	INTERGENIC			
SNP_90625_A_1605	NW_004516452.1	scaffold1174	1605	CC	TT	TT	INTERGENIC			
SNP_90626_A_1706	NW_004516452.1	scaffold1174	1706	CC	AA	AA	INTERGENIC			
SNP_90627_A_1808	NW_004516452.1	scaffold1174	1808	AA	TT	TT	INTERGENIC			
SNP_90628_A_1873	NW_004516452.1	scaffold1174	1873	CC	TT	TT	INTERGENIC			
SNP_90629_A_15211	NW_004516452.1	scaffold1174	15211	AA	TT	TT	INTERGENIC			
SNP_90630_A_15270	NW_004516452.1	scaffold1174	15270	GG	TT	TT	INTERGENIC			
SNP_90631_A_15297	NW_004516452.1	scaffold1174	15297	AA	GG	GG	INTERGENIC			
SNP_90632_A_15381	NW_004516452.1	scaffold1174	15381	GG	AA	AA	INTERGENIC			
SNP_90633_A_15569	NW_004516452.1	scaffold1174	15569	TT	AA	AA	INTERGENIC			
SNP_90634_A_15943	NW_004516452.1	scaffold1174	15943	AA	CC	CC	INTERGENIC			
SNP_90635_A_15944	NW_004516452.1	scaffold1174	15944	AA	CC	CC	INTERGENIC			
SNP_90636_A_16176	NW_004516452.1	scaffold1174	16176	GG	AA	AA	INTERGENIC			
SNP_90637_A_16188	NW_004516452.1	scaffold1174	16188	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90638_A_22867	NW_004516452.1	scaffold1174	22867	CC	AA	AA	INTERGENIC			
SNP_90639_A_22877	NW_004516452.1	scaffold1174	22877	GG	AA	AA	INTERGENIC			
SNP_90640_A_22913	NW_004516452.1	scaffold1174	22913	GG	AA	AA	INTERGENIC			
SNP_90641_A_22973	NW_004516452.1	scaffold1174	22973	TT	GG	GG	INTERGENIC			
SNP_90642_A_22976	NW_004516452.1	scaffold1174	22976	CC	AA	AA	INTERGENIC			
SNP_90643_A_22981	NW_004516452.1	scaffold1174	22981	TT	CC	CC	INTERGENIC			
SNP_90644_A_22982	NW_004516452.1	scaffold1174	22982	TT	CC	CC	INTERGENIC			
SNP_90645_A_23115	NW_004516452.1	scaffold1174	23115	GG	AA	AA	INTERGENIC			
SNP_90646_A_23564	NW_004516452.1	scaffold1174	23564	TT	GG	GG	INTERGENIC			
SNP_90647_A_23886	NW_004516452.1	scaffold1174	23886	GG	CC	CC	INTERGENIC			
SNP_90648_A_24818	NW_004516452.1	scaffold1174	24818	AA	TT	TT	INTERGENIC			
SNP_90649_A_25186	NW_004516452.1	scaffold1174	25186	TT	AA	AA	INTERGENIC			
SNP_90650_A_277	NW_004516453.1	scaffold1175	277	GG	AA	AA	INTERGENIC			
SNP_90651_A_363	NW_004516453.1	scaffold1175	363	AA	TT	TT	INTERGENIC			
SNP_90652_A_376	NW_004516453.1	scaffold1175	376	TT	GG	GG	INTERGENIC			
SNP_90653_A_493	NW_004516453.1	scaffold1175	493	AA	GG	GG	INTERGENIC			
SNP_90654_A_714	NW_004516453.1	scaffold1175	714	AA	GG	GG	INTERGENIC			
SNP_90655_A_721	NW_004516453.1	scaffold1175	721	AA	GG	GG	INTERGENIC			
SNP_90656_A_3407	NW_004516453.1	scaffold1175	3407	TT	CC	CC	INTERGENIC			
SNP_90657_A_3530	NW_004516453.1	scaffold1175	3530	AA	TT	TT	INTERGENIC			
SNP_90658_A_3532	NW_004516453.1	scaffold1175	3532	CC	TT	TT	INTERGENIC			
SNP_90659_A_37121	NW_004516454.1	scaffold1176_2	37121	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90660_A_51006	NW_004516454.1	scaffold1176_2	51006	CC	TT	TT	INTERGENIC		
SNP_90661_A_51697	NW_004516454.1	scaffold1176_2	51697	AA	CC	CC	INTERGENIC		
SNP_90662_A_57721	NW_004516454.1	scaffold1176_2	57721	AA	CC	CC	INTERGENIC		
SNP_90663_A_58073	NW_004516454.1	scaffold1176_2	58073	TT	GG	GG	INTERGENIC		
SNP_90664_A_58302	NW_004516454.1	scaffold1176_2	58302	CC	TT	TT	INTERGENIC		
SNP_90665_A_72127	NW_004516454.1	scaffold1176_2	72127	TT	AA	AA	DRR	101515651	transcription factor bHLH18-like
SNP_90666_A_196334	NW_004516454.1	scaffold1176_2	196334	CC	AA	AA	INTERGENIC		
SNP_90667_A_196383	NW_004516454.1	scaffold1176_2	196383	AA	GG	GG	INTERGENIC		
SNP_90669_A_196623	NW_004516454.1	scaffold1176_2	196623	TT	CC	CC	INTERGENIC		
SNP_90670_A_196655	NW_004516454.1	scaffold1176_2	196655	TT	CC	CC	INTERGENIC		
SNP_90671_A_196676	NW_004516454.1	scaffold1176_2	196676	CC	GG	GG	INTERGENIC		
SNP_90672_A_237547	NW_004516454.1	scaffold1176_2	237547	GG	AA	AA	INTERGENIC		
SNP_90673_A_237788	NW_004516454.1	scaffold1176_2	237788	TT	GG	GG	INTERGENIC		
SNP_90674_A_237897	NW_004516454.1	scaffold1176_2	237897	TT	CC	CC	INTERGENIC		
SNP_90675_A_238525	NW_004516454.1	scaffold1176_2	238525	GG	AA	AA	INTERGENIC		
SNP_90677_A_238592	NW_004516454.1	scaffold1176_2	238592	GG	CC	CC	INTERGENIC		
SNP_90678_A_238889	NW_004516454.1	scaffold1176_2	238889	CC	GG	GG	INTERGENIC		
SNP_90679_A_274442	NW_004516454.1	scaffold1176_2	274442	CC	TT	TT	INTERGENIC		
SNP_90680_A_347107	NW_004516454.1	scaffold1176_2	347107	GG	AA	AA	INTERGENIC		
SNP_90681_A_1898	NW_004516456.1	scaffold1178	1898	CC	AA	AA	INTERGENIC		
SNP_90682_A_1899	NW_004516456.1	scaffold1178	1899	CC	TT	TT	INTERGENIC		
SNP_90683_A_1956	NW_004516456.1	scaffold1178	1956	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90684_A_2249	NW_004516458.1	scaffold1178	2249	CC	TT	TT	INTERGENIC			
SNP_90686_A_226	NW_004516458.1	scaffold1180	226	TT	AA	AA	INTERGENIC			
SNP_90687_A_266	NW_004516458.1	scaffold1180	266	TT	CC	CC	INTERGENIC			
SNP_90688_A_320	NW_004516458.1	scaffold1180	320	GG	AA	AA	INTERGENIC			
SNP_90689_A_439	NW_004516458.1	scaffold1180	439	GG	AA	AA	INTERGENIC			
SNP_90690_A_773	NW_004516458.1	scaffold1180	773	GG	TT	TT	INTERGENIC			
SNP_90691_A_2507	NW_004516458.1	scaffold1180	2507	CC	TT	TT	INTERGENIC			
SNP_90692_A_2525	NW_004516458.1	scaffold1180	2525	AA	CC	CC	INTERGENIC			
SNP_90693_A_2577	NW_004516458.1	scaffold1180	2577	GG	AA	AA	INTERGENIC			
SNP_90695_A_2632	NW_004516458.1	scaffold1180	2632	CC	TT	TT	INTERGENIC			
SNP_90696_A_2647	NW_004516458.1	scaffold1180	2647	CC	TT	TT	INTERGENIC			
SNP_90697_A_2673	NW_004516458.1	scaffold1180	2673	TT	CC	CC	INTERGENIC			
SNP_90698_A_2744	NW_004516458.1	scaffold1180	2744	AA	GG	GG	INTERGENIC			
SNP_90699_A_2749	NW_004516458.1	scaffold1180	2749	CC	GG	GG	INTERGENIC			
SNP_90700_A_2775	NW_004516458.1	scaffold1180	2775	GG	CC	CC	INTERGENIC			
SNP_90701_A_2786	NW_004516458.1	scaffold1180	2786	GG	AA	AA	INTERGENIC			
SNP_90702_A_2787	NW_004516458.1	scaffold1180	2787	GG	CC	CC	INTERGENIC			
SNP_90703_A_2833	NW_004516458.1	scaffold1180	2833	CC	GG	GG	INTERGENIC			
SNP_90704_A_2855	NW_004516458.1	scaffold1180	2855	CC	AA	AA	INTERGENIC			
SNP_90705_A_2856	NW_004516458.1	scaffold1180	2856	GG	AA	AA	INTERGENIC			
SNP_90707_A_2927	NW_004516458.1	scaffold1180	2927	CC	AA	AA	INTERGENIC			
SNP_90708_A_2954	NW_004516458.1	scaffold1180	2954	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90709_A_2959	NW_004516458.1	scaffold1180	2959	CC	TT	TT	INTERGENIC			
SNP_90710_A_2964	NW_004516458.1	scaffold1180	2964	AA	GG	GG	INTERGENIC			
SNP_90711_A_2968	NW_004516458.1	scaffold1180	2968	CC	AA	AA	INTERGENIC			
SNP_90712_A_3087	NW_004516458.1	scaffold1180	3087	GG	AA	AA	INTERGENIC			
SNP_90713_A_3124	NW_004516458.1	scaffold1180	3124	TT	CC	CC	INTERGENIC			
SNP_90714_A_3132	NW_004516458.1	scaffold1180	3132	CC	TT	TT	INTERGENIC			
SNP_90715_A_3184	NW_004516458.1	scaffold1180	3184	AA	CC	CC	INTERGENIC			
SNP_90716_A_3216	NW_004516458.1	scaffold1180	3216	CC	TT	TT	INTERGENIC			
SNP_90717_A_3237	NW_004516458.1	scaffold1180	3237	GG	TT	TT	INTERGENIC			
SNP_90718_A_3240	NW_004516458.1	scaffold1180	3240	GG	TT	TT	INTERGENIC			
SNP_90719_A_3253	NW_004516458.1	scaffold1180	3253	CC	TT	TT	INTERGENIC			
SNP_90720_A_3293	NW_004516458.1	scaffold1180	3293	AA	GG	GG	INTERGENIC			
SNP_90721_A_3311	NW_004516458.1	scaffold1180	3311	CC	TT	TT	INTERGENIC			
SNP_90722_A_3329	NW_004516458.1	scaffold1180	3329	TT	CC	CC	INTERGENIC			
SNP_90723_A_3357	NW_004516458.1	scaffold1180	3357	CC	TT	TT	INTERGENIC			
SNP_90724_A_3395	NW_004516458.1	scaffold1180	3395	AA	GG	GG	INTERGENIC			
SNP_90725_A_3400	NW_004516458.1	scaffold1180	3400	CC	GG	GG	INTERGENIC			
SNP_90726_A_3435	NW_004516458.1	scaffold1180	3435	GG	TT	TT	INTERGENIC			
SNP_90727_A_3440	NW_004516458.1	scaffold1180	3440	CC	TT	TT	INTERGENIC			
SNP_90728_A_3465	NW_004516458.1	scaffold1180	3465	GG	AA	AA	INTERGENIC			
SNP_90729_A_3472	NW_004516458.1	scaffold1180	3472	GG	TT	TT	INTERGENIC			
SNP_90730_A_3478	NW_004516458.1	scaffold1180	3478	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90731_A_3509	NW_004516458.1	scaffold1180	3509	GG	AA	AA	INTERGENIC		
SNP_90732_A_3512	NW_004516458.1	scaffold1180	3512	CC	TT	TT	INTERGENIC		
SNP_90733_A_3576	NW_004516458.1	scaffold1180	3576	AA	GG	GG	INTERGENIC		
SNP_90734_A_3580	NW_004516458.1	scaffold1180	3580	CC	TT	TT	INTERGENIC		
SNP_90735_A_3665	NW_004516458.1	scaffold1180	3665	TT	CC	CC	INTERGENIC		
SNP_90737_A_3756	NW_004516458.1	scaffold1180	3756	AA	TT	TT	INTERGENIC		
SNP_90738_A_3820	NW_004516458.1	scaffold1180	3820	TT	CC	CC	INTERGENIC		
SNP_90739_A_3845	NW_004516458.1	scaffold1180	3845	TT	CC	CC	INTERGENIC		
SNP_90740_A_3981	NW_004516458.1	scaffold1180	3981	CC	TT	TT	INTERGENIC		
SNP_90741_A_4246	NW_004516458.1	scaffold1180	4246	CC	TT	TT	INTERGENIC		
SNP_90742_A_4294	NW_004516458.1	scaffold1180	4294	AA	TT	TT	INTERGENIC		
SNP_90743_A_4300	NW_004516458.1	scaffold1180	4300	GG	TT	TT	INTERGENIC		
SNP_90745_A_51515	NW_004516458.1	scaffold1180	51515	AA	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90746_A_51852	NW_004516458.1	scaffold1180	51852	TT	CC	CC	INTRON	101493081	cucumis-in-like
SNP_90747_A_51945	NW_004516458.1	scaffold1180	51945	TT	CC	CC	INTRON	101493081	cucumis-in-like
SNP_90748_A_59729	NW_004516458.1	scaffold1180	59729	CC	AA	AA	INTRON	101493081	cucumis-in-like
SNP_90749_A_60611	NW_004516458.1	scaffold1180	60611	GG	AA	AA	INTRON	101493081	cucumis-in-like
SNP_90750_A_61407	NW_004516458.1	scaffold1180	61407	AA	CC	CC	INTRON	101493081	cucumis-in-like
SNP_90751_A_61408	NW_004516458.1	scaffold1180	61408	AA	TT	TT	INTRON	101493081	cucumis-in-like
SNP_90752_A_63050	NW_004516458.1	scaffold1180	63050	GG	TT	TT	INTRON	101493081	cucumis-in-like
SNP_90753_A_67542	NW_004516458.1	scaffold1180	67542	AA	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90754_A_71361	NW_004516458.1	scaffold1180	71361	AA	GG	GG	INTRON	101493081	cucumis-in-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90755_A_71653	NW_004516458.1	scaffold1180	71653	AA	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90756_A_73724	NW_004516458.1	scaffold1180	73724	AA	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90757_A_74540	NW_004516458.1	scaffold1180	74540	AA	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90758_A_76627	NW_004516458.1	scaffold1180	76627	CC	GG	GG	INTRON	101493081	cucumis-in-like
SNP_90759_A_80602	NW_004516458.1	scaffold1180	80602	TT	CC	CC	INTERGENIC		
SNP_90760_A_81274	NW_004516458.1	scaffold1180	81274	TT	CC	CC	INTERGENIC		
SNP_90761_A_81275	NW_004516458.1	scaffold1180	81275	GG	TT	TT	INTERGENIC		
SNP_90762_A_81346	NW_004516458.1	scaffold1180	81346	CC	TT	TT	INTERGENIC		
SNP_90763_A_81614	NW_004516458.1	scaffold1180	81614	TT	CC	CC	INTERGENIC		
SNP_90765_A_88252	NW_004516458.1	scaffold1180	88252	CC	TT	TT	INTERGENIC		
SNP_90766_A_88476	NW_004516458.1	scaffold1180	88476	CC	TT	TT	INTERGENIC		
SNP_90767_A_93114	NW_004516458.1	scaffold1180	93114	TT	CC	CC	INTERGENIC		
SNP_90768_A_93135	NW_004516458.1	scaffold1180	93135	AA	GG	GG	INTERGENIC		
SNP_90769_A_93144	NW_004516458.1	scaffold1180	93144	AA	GG	GG	INTERGENIC		
SNP_90770_A_93171	NW_004516458.1	scaffold1180	93171	CC	TT	TT	INTERGENIC		
SNP_90771_A_93173	NW_004516458.1	scaffold1180	93173	GG	AA	AA	INTERGENIC		
SNP_90772_A_93182	NW_004516458.1	scaffold1180	93182	AA	CC	CC	INTERGENIC		
SNP_90773_A_93222	NW_004516458.1	scaffold1180	93222	AA	GG	GG	INTERGENIC		
SNP_90774_A_93255	NW_004516458.1	scaffold1180	93255	GG	AA	AA	INTERGENIC		
SNP_90775_A_93276	NW_004516458.1	scaffold1180	93276	AA	GG	GG	INTERGENIC		
SNP_90776_A_93280	NW_004516458.1	scaffold1180	93280	AA	GG	GG	INTERGENIC		
SNP_90777_A_93281	NW_004516458.1	scaffold1180	93281	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90778_A_93309	NW_004516458.1	scaffold1180	93309	GG	AA	AA	INTERGENIC			
SNP_90780_A_124243	NW_004516458.1	scaffold1180	124243	TT	CC	CC	INTERGENIC			
SNP_90781_A_124434	NW_004516458.1	scaffold1180	124434	CC	TT	TT	INTERGENIC			
SNP_90782_A_134695	NW_004516458.1	scaffold1180	134695	GG	TT	TT	INTERGENIC			
SNP_90783_A_134696	NW_004516458.1	scaffold1180	134696	GG	CC	CC	INTERGENIC			
SNP_90784_A_134711	NW_004516458.1	scaffold1180	134711	GG	AA	AA	INTERGENIC			
SNP_90785_A_134734	NW_004516458.1	scaffold1180	134734	GG	CC	CC	INTERGENIC			
SNP_90786_A_134791	NW_004516458.1	scaffold1180	134791	AA	GG	GG	INTERGENIC			
SNP_90787_A_134853	NW_004516458.1	scaffold1180	134853	AA	GG	GG	INTERGENIC			
SNP_90789_A_136044	NW_004516458.1	scaffold1180	136044	CC	AA	AA	INTERGENIC			
SNP_90790_A_136048	NW_004516458.1	scaffold1180	136048	AA	GG	GG	INTERGENIC			
SNP_90791_A_136068	NW_004516458.1	scaffold1180	136068	AA	GG	GG	INTERGENIC			
SNP_90792_A_136090	NW_004516458.1	scaffold1180	136090	TT	CC	CC	INTERGENIC			
SNP_90793_A_137897	NW_004516458.1	scaffold1180	137897	AA	TT	TT	INTERGENIC			
SNP_90794_A_140511	NW_004516458.1	scaffold1180	140511	CC	TT	TT	INTERGENIC			
SNP_90795_A_147204	NW_004516458.1	scaffold1180	147204	TT	CC	CC	INTERGENIC			
SNP_90796_A_149316	NW_004516458.1	scaffold1180	149316	AA	TT	TT	INTERGENIC			
SNP_90797_A_155665	NW_004516458.1	scaffold1180	155665	AA	GG	GG	INTERGENIC			
SNP_90798_A_155723	NW_004516458.1	scaffold1180	155723	TT	GG	GG	INTERGENIC			
SNP_90799_A_156080	NW_004516458.1	scaffold1180	156080	GG	AA	AA	INTERGENIC			
SNP_90800_A_158042	NW_004516458.1	scaffold1180	158042	AA	TT	TT	INTERGENIC			
SNP_90801_A_160303	NW_004516458.1	scaffold1180	160303	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_90802_A_161106	NW_004516458.1	scaffold1180	161106	CC	TT	TT	INTERGENIC		
SNP_90803_A_163196	NW_004516458.1	scaffold1180	163196	CC	TT	TT	INTERGENIC		
SNP_90804_A_165681	NW_004516458.1	scaffold1180	165681	CC	TT	TT	INTERGENIC		
SNP_90805_A_169138	NW_004516458.1	scaffold1180	169138	GG	CC	CC	INTERGENIC		
SNP_90806_A_170434	NW_004516458.1	scaffold1180	170434	TT	CC	CC	INTERGENIC		
SNP_90807_A_183617	NW_004516458.1	scaffold1180	183617	GG	AA	AA	INTERGENIC		
SNP_90808_A_183865	NW_004516458.1	scaffold1180	183865	CC	TT	TT	INTERGENIC		
SNP_90809_A_189852	NW_004516458.1	scaffold1180	189852	TT	CC	CC	INTERGENIC		
SNP_90810_A_191546	NW_004516458.1	scaffold1180	191546	AA	CC	CC	INTERGENIC		
SNP_90811_A_194631	NW_004516458.1	scaffold1180	194631	CC	TT	TT	DRR	101494051	Unknown function
SNP_90812_A_199823	NW_004516458.1	scaffold1180	199823	TT	CC	CC	INTERGENIC		
SNP_90814_A_207624	NW_004516458.1	scaffold1180	207624	GG	AA	AA	INTERGENIC		
SNP_90815_A_208116	NW_004516458.1	scaffold1180	208116	GG	AA	AA	INTERGENIC		
SNP_90816_A_208395	NW_004516458.1	scaffold1180	208395	GG	AA	AA	INTERGENIC		
SNP_90818_A_208673	NW_004516458.1	scaffold1180	208673	TT	CC	CC	INTERGENIC		
SNP_90819_A_208784	NW_004516458.1	scaffold1180	208784	GG	AA	AA	INTERGENIC		
SNP_90822_A_209484	NW_004516458.1	scaffold1180	209484	AA	GG	GG	INTERGENIC		
SNP_90823_A_209496	NW_004516458.1	scaffold1180	209496	TT	CC	CC	INTERGENIC		
SNP_90824_A_209645	NW_004516458.1	scaffold1180	209645	TT	CC	CC	INTERGENIC		
SNP_90825_A_209690	NW_004516458.1	scaffold1180	209690	AA	GG	GG	INTERGENIC		
SNP_90826_A_210042	NW_004516458.1	scaffold1180	210042	CC	TT	TT	INTERGENIC		
SNP_90827_A_210052	NW_004516458.1	scaffold1180	210052	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90828_A_210794	NW_004516458.1	scaffold1180	210794	GG	TT	TT	INTERGENIC			
SNP_90829_A_210828	NW_004516458.1	scaffold1180	210828	AA	TT	TT	INTERGENIC			
SNP_90830_A_210906	NW_004516458.1	scaffold1180	210906	CC	GG	GG	INTERGENIC			
SNP_90831_A_210987	NW_004516458.1	scaffold1180	210987	CC	TT	TT	INTERGENIC			
SNP_90832_A_211315	NW_004516458.1	scaffold1180	211315	CC	AA	AA	INTERGENIC			
SNP_90833_A_211381	NW_004516458.1	scaffold1180	211381	AA	GG	GG	INTERGENIC			
SNP_90834_A_212664	NW_004516458.1	scaffold1180	212664	CC	TT	TT	INTERGENIC			
SNP_90836_A_213911	NW_004516458.1	scaffold1180	213911	TT	CC	CC	INTERGENIC			
SNP_90837_A_213925	NW_004516458.1	scaffold1180	213925	TT	CC	CC	INTERGENIC			
SNP_90838_A_215388	NW_004516458.1	scaffold1180	215388	AA	CC	CC	INTERGENIC			
SNP_90839_A_216211	NW_004516458.1	scaffold1180	216211	GG	AA	AA	INTERGENIC			
SNP_90841_A_217381	NW_004516458.1	scaffold1180	217381	GG	AA	AA	INTERGENIC			
SNP_90842_A_217630	NW_004516458.1	scaffold1180	217630	TT	CC	CC	INTERGENIC			
SNP_90843_A_218585	NW_004516458.1	scaffold1180	218585	TT	CC	CC	INTERGENIC			
SNP_90844_A_218733	NW_004516458.1	scaffold1180	218733	GG	AA	AA	INTERGENIC			
SNP_90845_A_218887	NW_004516458.1	scaffold1180	218887	GG	CC	CC	INTERGENIC			
SNP_90846_A_218892	NW_004516458.1	scaffold1180	218892	CC	TT	TT	INTERGENIC			
SNP_90847_A_218954	NW_004516458.1	scaffold1180	218954	AA	TT	TT	INTERGENIC			
SNP_90848_A_218958	NW_004516458.1	scaffold1180	218958	GG	AA	AA	INTERGENIC			
SNP_90849_A_219037	NW_004516458.1	scaffold1180	219037	AA	CC	CC	INTERGENIC			
SNP_90850_A_219039	NW_004516458.1	scaffold1180	219039	GG	TT	TT	INTERGENIC			
SNP_90851_A_225229	NW_004516458.1	scaffold1180	225229	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90852_A_226101	NW_004516458.1	scaffold1180	226101	GG	AA	AA	INTERGENIC			
SNP_90853_A_227295	NW_004516458.1	scaffold1180	227295	AA	TT	TT	INTERGENIC			
SNP_90854_A_227296	NW_004516458.1	scaffold1180	227296	AA	TT	TT	INTERGENIC			
SNP_90855_A_227312	NW_004516458.1	scaffold1180	227312	TT	AA	AA	INTERGENIC			
SNP_90856_A_227392	NW_004516458.1	scaffold1180	227392	TT	AA	AA	INTERGENIC			
SNP_90857_A_227745	NW_004516458.1	scaffold1180	227745	AA	TT	TT	INTERGENIC			
SNP_90858_A_228110	NW_004516458.1	scaffold1180	228110	GG	CC	CC	INTERGENIC			
SNP_90859_A_228205	NW_004516458.1	scaffold1180	228205	GG	TT	TT	INTERGENIC			
SNP_90860_A_228238	NW_004516458.1	scaffold1180	228238	TT	CC	CC	INTERGENIC			
SNP_90861_A_228336	NW_004516458.1	scaffold1180	228336	AA	GG	GG	INTERGENIC			
SNP_90862_A_228444	NW_004516458.1	scaffold1180	228444	GG	AA	AA	INTERGENIC			
SNP_90863_A_234775	NW_004516458.1	scaffold1180	234775	TT	CC	CC	INTERGENIC			
SNP_90864_A_240910	NW_004516458.1	scaffold1180	240910	AA	GG	GG	INTERGENIC			
SNP_90865_A_240923	NW_004516458.1	scaffold1180	240923	AA	GG	GG	INTERGENIC			
SNP_90867_A_241239	NW_004516458.1	scaffold1180	241239	TT	AA	AA	INTERGENIC			
SNP_90868_A_241276	NW_004516458.1	scaffold1180	241276	CC	GG	GG	INTERGENIC			
SNP_90869_A_241313	NW_004516458.1	scaffold1180	241313	AA	GG	GG	INTERGENIC			
SNP_90870_A_241398	NW_004516458.1	scaffold1180	241398	GG	AA	AA	INTERGENIC			
SNP_90871_A_247135	NW_004516458.1	scaffold1180	247135	TT	AA	AA	INTERGENIC			
SNP_90873_A_250448	NW_004516458.1	scaffold1180	250448	CC	TT	TT	INTERGENIC			
SNP_90874_A_252372	NW_004516458.1	scaffold1180	252372	AA	GG	GG	INTERGENIC			
SNP_90875_A_252842	NW_004516458.1	scaffold1180	252842	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90876_A_255606	NW_004516458.1	scaffold1180	255606	AA	CC	CC	INTERGENIC			
SNP_90877_A_255662	NW_004516458.1	scaffold1180	255662	TT	CC	CC	INTERGENIC			
SNP_90878_A_255713	NW_004516458.1	scaffold1180	255713	AA	GG	GG	INTERGENIC			
SNP_90879_A_255724	NW_004516458.1	scaffold1180	255724	CC	GG	GG	INTERGENIC			
SNP_90880_A_255738	NW_004516458.1	scaffold1180	255738	AA	CC	CC	INTERGENIC			
SNP_90881_A_256024	NW_004516458.1	scaffold1180	256024	AA	GG	GG	INTERGENIC			
SNP_90882_A_270618	NW_004516458.1	scaffold1180	270618	AA	GG	GG	INTERGENIC			
SNP_90883_A_277561	NW_004516458.1	scaffold1180	277561	GG	TT	TT	INTERGENIC			
SNP_90884_A_254	NW_004516459.1	scaffold1181	254	AA	GG	GG	INTERGENIC			
SNP_90885_A_1585	NW_004516459.1	scaffold1181	1585	TT	AA	AA	INTERGENIC			
SNP_90886_A_1665	NW_004516459.1	scaffold1181	1665	TT	AA	AA	INTERGENIC			
SNP_90887_A_5388	NW_004516459.1	scaffold1181	5388	AA	CC	CC	INTERGENIC			
SNP_90888_A_5391	NW_004516459.1	scaffold1181	5391	AA	TT	TT	INTERGENIC			
SNP_90889_A_5445	NW_004516459.1	scaffold1181	5445	CC	AA	AA	INTERGENIC			
SNP_90890_A_5649	NW_004516459.1	scaffold1181	5649	CC	TT	TT	INTERGENIC			
SNP_90891_A_5657	NW_004516459.1	scaffold1181	5657	CC	TT	TT	INTERGENIC			
SNP_90892_A_5737	NW_004516459.1	scaffold1181	5737	CC	AA	AA	INTERGENIC			
SNP_90894_A_6118	NW_004516459.1	scaffold1181	6118	CC	AA	AA	INTERGENIC			
SNP_90895_A_6141	NW_004516459.1	scaffold1181	6141	TT	AA	AA	INTERGENIC			
SNP_90896_A_6775	NW_004516459.1	scaffold1181	6775	AA	TT	TT	INTERGENIC			
SNP_90898_A_6863	NW_004516459.1	scaffold1181	6863	CC	AA	AA	INTERGENIC			
SNP_90899_A_6947	NW_004516459.1	scaffold1181	6947	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90900_A_7086	NW_004516459.1	scaffold1181	7086	GG	CC	CC	INTERGENIC			
SNP_90901_A_7163	NW_004516459.1	scaffold1181	7163	AA	CC	CC	INTERGENIC			
SNP_90902_A_7164	NW_004516459.1	scaffold1181	7164	GG	AA	AA	INTERGENIC			
SNP_90903_A_7184	NW_004516459.1	scaffold1181	7184	AA	CC	CC	INTERGENIC			
SNP_90904_A_7214	NW_004516459.1	scaffold1181	7214	TT	CC	CC	INTERGENIC			
SNP_90905_A_7752	NW_004516459.1	scaffold1181	7752	CC	TT	TT	INTERGENIC			
SNP_90906_A_10993	NW_004516459.1	scaffold1181	10993	TT	CC	CC	INTERGENIC			
SNP_90907_A_11066	NW_004516459.1	scaffold1181	11066	TT	CC	CC	INTERGENIC			
SNP_90908_A_11257	NW_004516459.1	scaffold1181	11257	AA	TT	TT	INTERGENIC			
SNP_90909_A_11264	NW_004516459.1	scaffold1181	11264	AA	TT	TT	INTERGENIC			
SNP_90910_A_11271	NW_004516459.1	scaffold1181	11271	AA	TT	TT	INTERGENIC			
SNP_90911_A_11273	NW_004516459.1	scaffold1181	11273	AA	CC	CC	INTERGENIC			
SNP_90912_A_11278	NW_004516459.1	scaffold1181	11278	AA	TT	TT	INTERGENIC			
SNP_90913_A_11285	NW_004516459.1	scaffold1181	11285	AA	TT	TT	INTERGENIC			
SNP_90914_A_11300	NW_004516459.1	scaffold1181	11300	TT	CC	CC	INTERGENIC			
SNP_90915_A_11499	NW_004516459.1	scaffold1181	11499	AA	GG	GG	INTERGENIC			
SNP_90916_A_11534	NW_004516459.1	scaffold1181	11534	AA	GG	GG	INTERGENIC			
SNP_90917_A_11546	NW_004516459.1	scaffold1181	11546	GG	CC	CC	INTERGENIC			
SNP_90918_A_11549	NW_004516459.1	scaffold1181	11549	GG	CC	CC	INTERGENIC			
SNP_90919_A_101	NW_004516461.1	scaffold1183	101	AA	TT	TT	INTERGENIC			
SNP_90921_A_181	NW_004516461.1	scaffold1183	181	TT	CC	CC	INTERGENIC			
SNP_90922_A_361	NW_004516461.1	scaffold1183	361	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90923_A_29415	NW_004516461.1	scaffold1183	29415	TT	CC	CC	INTERGENIC			
SNP_90924_A_29482	NW_004516461.1	scaffold1183	29482	AA	GG	GG	INTERGENIC			
SNP_90925_A_29521	NW_004516461.1	scaffold1183	29521	TT	CC	CC	INTERGENIC			
SNP_90926_A_32614	NW_004516461.1	scaffold1183	32614	CC	TT	TT	INTERGENIC			
SNP_90927_A_60455	NW_004516461.1	scaffold1183	60455	AA	GG	GG	INTERGENIC			
SNP_90928_A_75848	NW_004516461.1	scaffold1183	75848	AA	GG	GG	INTERGENIC			
SNP_90929_A_75853	NW_004516461.1	scaffold1183	75853	AA	GG	GG	INTERGENIC			
SNP_90930_A_75926	NW_004516461.1	scaffold1183	75926	TT	CC	CC	INTERGENIC			
SNP_90931_A_75931	NW_004516461.1	scaffold1183	75931	TT	GG	GG	INTERGENIC			
SNP_90932_A_75951	NW_004516461.1	scaffold1183	75951	GG	TT	TT	INTERGENIC			
SNP_90933_A_76003	NW_004516461.1	scaffold1183	76003	AA	TT	TT	INTERGENIC			
SNP_90934_A_76034	NW_004516461.1	scaffold1183	76034	CC	TT	TT	INTERGENIC			
SNP_90935_A_76114	NW_004516461.1	scaffold1183	76114	TT	CC	CC	INTERGENIC			
SNP_90936_A_96654	NW_004516461.1	scaffold1183	96654	GG	TT	TT	INTERGENIC			
SNP_90937_A_96949	NW_004516461.1	scaffold1183	96949	GG	CC	CC	INTERGENIC			
SNP_90940_A_147623	NW_004516461.1	scaffold1183	147623	AA	CC	CC	INTERGENIC			
SNP_90941_A_147627	NW_004516461.1	scaffold1183	147627	CC	AA	AA	INTERGENIC			
SNP_90942_A_147669	NW_004516461.1	scaffold1183	147669	AA	GG	GG	INTERGENIC			
SNP_90943_A_147831	NW_004516461.1	scaffold1183	147831	CC	GG	GG	INTERGENIC			
SNP_90944_A_148775	NW_004516461.1	scaffold1183	148775	CC	TT	TT	INTERGENIC			
SNP_90945_A_148831	NW_004516461.1	scaffold1183	148831	CC	GG	GG	INTERGENIC			
SNP_90946_A_148919	NW_004516461.1	scaffold1183	148919	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90947_A_232182	NW_004516461.1	scaffold1183	232182	TT	CC	CC	INTERGENIC			
SNP_90948_A_232434	NW_004516461.1	scaffold1183	232434	AA	CC	CC	INTERGENIC			
SNP_90949_A_234211	NW_004516461.1	scaffold1183	234211	CC	TT	TT	INTERGENIC			
SNP_90950_A_234573	NW_004516461.1	scaffold1183	234573	AA	GG	GG	INTERGENIC			
SNP_90952_A_944	NW_004516462.1	scaffold1185	944	AA	GG	GG	INTERGENIC			
SNP_90953_A_947	NW_004516462.1	scaffold1185	947	AA	GG	GG	INTERGENIC			
SNP_90954_A_2437	NW_004516462.1	scaffold1185	2437	TT	CC	CC	INTERGENIC			
SNP_90955_A_3529	NW_004516462.1	scaffold1185	3529	TT	GG	GG	INTERGENIC			
SNP_90956_A_3698	NW_004516462.1	scaffold1185	3698	CC	TT	TT	INTERGENIC			
SNP_90957_A_3811	NW_004516462.1	scaffold1185	3811	AA	TT	TT	INTERGENIC			
SNP_90958_A_3828	NW_004516462.1	scaffold1185	3828	TT	AA	AA	INTERGENIC			
SNP_90959_A_4030	NW_004516462.1	scaffold1185	4030	GG	AA	AA	INTERGENIC			
SNP_90960_A_4308	NW_004516462.1	scaffold1185	4308	TT	AA	AA	INTERGENIC			
SNP_90961_A_4628	NW_004516462.1	scaffold1185	4628	AA	GG	GG	INTERGENIC			
SNP_90962_A_5496	NW_004516462.1	scaffold1185	5496	GG	AA	AA	INTERGENIC			
SNP_90963_A_5580	NW_004516462.1	scaffold1185	5580	TT	CC	CC	INTERGENIC			
SNP_90964_A_6187	NW_004516462.1	scaffold1185	6187	GG	TT	TT	INTERGENIC			
SNP_90965_A_6648	NW_004516462.1	scaffold1185	6648	AA	GG	GG	INTERGENIC			
SNP_90966_A_6650	NW_004516462.1	scaffold1185	6650	AA	TT	TT	INTERGENIC			
SNP_90967_A_7745	NW_004516462.1	scaffold1185	7745	TT	CC	CC	INTERGENIC			
SNP_90968_A_9100	NW_004516462.1	scaffold1185	9100	GG	AA	AA	INTERGENIC			
SNP_90969_A_9129	NW_004516462.1	scaffold1185	9129	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90970_A_9192	NW_004516462.1	scaffold1185	9192	GG	AA	AA	INTERGENIC			
SNP_90971_A_10573	NW_004516462.1	scaffold1185	10573	CC	TT	TT	INTERGENIC			
SNP_90972_A_10859	NW_004516462.1	scaffold1185	10859	GG	AA	AA	INTERGENIC			
SNP_90973_A_10951	NW_004516462.1	scaffold1185	10951	GG	TT	TT	INTERGENIC			
SNP_90974_A_12319	NW_004516462.1	scaffold1185	12319	TT	AA	AA	INTERGENIC			
SNP_90975_A_12911	NW_004516462.1	scaffold1185	12911	GG	AA	AA	INTERGENIC			
SNP_90976_A_13994	NW_004516462.1	scaffold1185	13994	GG	TT	TT	INTERGENIC			
SNP_90977_A_14106	NW_004516462.1	scaffold1185	14106	AA	GG	GG	INTERGENIC			
SNP_90978_A_14153	NW_004516462.1	scaffold1185	14153	TT	CC	CC	INTERGENIC			
SNP_90979_A_14447	NW_004516462.1	scaffold1185	14447	GG	TT	TT	INTERGENIC			
SNP_90980_A_15332	NW_004516462.1	scaffold1185	15332	CC	GG	GG	INTERGENIC			
SNP_90981_A_15776	NW_004516462.1	scaffold1185	15776	CC	TT	TT	INTERGENIC			
SNP_90982_A_19972	NW_004516462.1	scaffold1185	19972	CC	TT	TT	INTERGENIC			
SNP_90983_A_20271	NW_004516462.1	scaffold1185	20271	AA	CC	CC	INTERGENIC			
SNP_90984_A_20443	NW_004516462.1	scaffold1185	20443	GG	AA	AA	INTERGENIC			
SNP_90985_A_21798	NW_004516462.1	scaffold1185	21798	TT	AA	AA	INTERGENIC			
SNP_90986_A_22115	NW_004516462.1	scaffold1185	22115	CC	AA	AA	INTERGENIC			
SNP_90987_A_22154	NW_004516462.1	scaffold1185	22154	AA	GG	GG	INTERGENIC			
SNP_90988_A_22287	NW_004516462.1	scaffold1185	22287	TT	AA	AA	INTERGENIC			
SNP_90989_A_22295	NW_004516462.1	scaffold1185	22295	AA	CC	CC	INTERGENIC			
SNP_90990_A_22566	NW_004516462.1	scaffold1185	22566	AA	GG	GG	INTERGENIC			
SNP_90991_A_24596	NW_004516462.1	scaffold1185	24596	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_90992_A_25006	NW_004516462.1	scaffold1185	25006	CC	AA	AA	INTERGENIC			
SNP_90993_A_26098	NW_004516462.1	scaffold1185	26098	TT	CC	CC	INTERGENIC			
SNP_90994_A_26456	NW_004516462.1	scaffold1185	26456	CC	AA	AA	INTERGENIC			
SNP_90995_A_26643	NW_004516462.1	scaffold1185	26643	GG	AA	AA	INTERGENIC			
SNP_90996_A_27891	NW_004516462.1	scaffold1185	27891	GG	AA	AA	INTERGENIC			
SNP_90997_A_28071	NW_004516462.1	scaffold1185	28071	TT	AA	AA	INTERGENIC			
SNP_90998_A_29835	NW_004516462.1	scaffold1185	29835	GG	AA	AA	INTERGENIC			
SNP_90999_A_29993	NW_004516462.1	scaffold1185	29993	AA	GG	GG	INTERGENIC			
SNP_91000_A_30154	NW_004516462.1	scaffold1185	30154	GG	CC	CC	INTERGENIC			
SNP_91001_A_30199	NW_004516462.1	scaffold1185	30199	CC	TT	TT	INTERGENIC			
SNP_91002_A_30502	NW_004516462.1	scaffold1185	30502	GG	AA	AA	INTERGENIC			
SNP_91003_A_30507	NW_004516462.1	scaffold1185	30507	GG	TT	TT	INTERGENIC			
SNP_91004_A_30539	NW_004516462.1	scaffold1185	30539	CC	TT	TT	INTERGENIC			
SNP_91005_A_30983	NW_004516462.1	scaffold1185	30983	GG	AA	AA	INTERGENIC			
SNP_91006_A_38662	NW_004516462.1	scaffold1185	38662	TT	CC	CC	INTERGENIC			
SNP_91007_A_38749	NW_004516462.1	scaffold1185	38749	TT	AA	AA	INTERGENIC			
SNP_91008_A_38874	NW_004516462.1	scaffold1185	38874	CC	AA	AA	INTERGENIC			
SNP_91009_A_39169	NW_004516462.1	scaffold1185	39169	AA	GG	GG	INTERGENIC			
SNP_91011_A_67222	NW_004516462.1	scaffold1185	67222	AA	TT	TT	INTERGENIC			
SNP_91013_A_67421	NW_004516462.1	scaffold1185	67421	GG	AA	AA	INTERGENIC			
SNP_91015_A_67645	NW_004516462.1	scaffold1185	67645	AA	CC	CC	INTERGENIC			
SNP_91016_A_67697	NW_004516462.1	scaffold1185	67697	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91017_A_92667	NW_004516462.1	scaffold1185	92667	GG	CC	CC	URR	101495318	uncharacterized LOC101495318
SNP_91018_A_92671	NW_004516462.1	scaffold1185	92671	GG	CC	CC	URR	101495318	uncharacterized LOC101495318
SNP_91019_A_93561	NW_004516462.1	scaffold1185	93561	AA	GG	GG	URR	101495318	uncharacterized LOC101495318
SNP_91020_A_93810	NW_004516462.1	scaffold1185	93810	AA	GG	GG	URR	101495318	uncharacterized LOC101495318
SNP_91021_A_93935	NW_004516462.1	scaffold1185	93935	AA	GG	GG	URR	101495318	uncharacterized LOC101495318
SNP_91022_A_105317	NW_004516462.1	scaffold1185	105317	GG	AA	AA	INTERGENIC		
SNP_91023_A_105403	NW_004516462.1	scaffold1185	105403	AA	GG	GG	INTERGENIC		
SNP_91024_A_105447	NW_004516462.1	scaffold1185	105447	TT	AA	AA	INTERGENIC		
SNP_91025_A_105758	NW_004516462.1	scaffold1185	105758	TT	CC	CC	INTERGENIC		
SNP_91026_A_105761	NW_004516462.1	scaffold1185	105761	AA	CC	CC	INTERGENIC		
SNP_91027_A_107585	NW_004516462.1	scaffold1185	107585	AA	CC	CC	INTERGENIC		
SNP_91028_A_107594	NW_004516462.1	scaffold1185	107594	AA	TT	TT	INTERGENIC		
SNP_91029_A_107902	NW_004516462.1	scaffold1185	107902	AA	CC	CC	INTERGENIC		
SNP_91030_A_115425	NW_004516462.1	scaffold1185	115425	TT	CC	CC	INTERGENIC		
SNP_91031_A_115429	NW_004516462.1	scaffold1185	115429	AA	CC	CC	INTERGENIC		
SNP_91032_A_115480	NW_004516462.1	scaffold1185	115480	CC	GG	GG	INTERGENIC		
SNP_91033_A_115671	NW_004516462.1	scaffold1185	115671	GG	AA	AA	INTERGENIC		
SNP_91035_A_115720	NW_004516462.1	scaffold1185	115720	TT	CC	CC	INTERGENIC		
SNP_91036_A_115774	NW_004516462.1	scaffold1185	115774	TT	CC	CC	INTERGENIC		
SNP_91037_A_134728	NW_004516462.1	scaffold1185	134728	GG	AA	AA	INTERGENIC		
SNP_91038_A_588	NW_004516465.1	scaffold1191	588	TT	GG	GG	INTERGENIC		
SNP_91039_A_649	NW_004516465.1	scaffold1191	649	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91040_A_824	NW_004516465.1	scaffold1191	824	TT	CC	CC	INTERGENIC			
SNP_91041_A_394	NW_004516466.1	scaffold1192	394	GG	AA	AA	INTERGENIC			
SNP_91042_A_400	NW_004516466.1	scaffold1192	400	TT	AA	AA	INTERGENIC			
SNP_91043_A_470	NW_004516466.1	scaffold1192	470	GG	CC	CC	INTERGENIC			
SNP_91044_A_479	NW_004516466.1	scaffold1192	479	GG	AA	AA	INTERGENIC			
SNP_91045_A_491	NW_004516466.1	scaffold1192	491	CC	TT	TT	INTERGENIC			
SNP_91046_A_517	NW_004516466.1	scaffold1192	517	CC	AA	AA	INTERGENIC			
SNP_91047_A_549	NW_004516466.1	scaffold1192	549	GG	TT	TT	INTERGENIC			
SNP_91048_A_650	NW_004516466.1	scaffold1192	650	GG	AA	AA	INTERGENIC			
SNP_91049_A_660	NW_004516466.1	scaffold1192	660	AA	GG	GG	INTERGENIC			
SNP_91051_A_7605	NW_004516467.1	scaffold1193	7605	TT	CC	CC	INTERGENIC			
SNP_91052_A_9464	NW_004516467.1	scaffold1193	9464	AA	TT	TT	INTERGENIC			
SNP_91055_A_62963	NW_004516467.1	scaffold1193	62963	GG	TT	TT	INTERGENIC			
SNP_91056_A_62991	NW_004516467.1	scaffold1193	62991	AA	GG	GG	INTERGENIC			
SNP_91057_A_62999	NW_004516467.1	scaffold1193	62999	CC	TT	TT	INTERGENIC			
SNP_91058_A_63032	NW_004516467.1	scaffold1193	63032	TT	CC	CC	INTERGENIC			
SNP_91059_A_63093	NW_004516467.1	scaffold1193	63093	AA	TT	TT	INTERGENIC			
SNP_91060_A_63101	NW_004516467.1	scaffold1193	63101	AA	TT	TT	INTERGENIC			
SNP_91061_A_63210	NW_004516467.1	scaffold1193	63210	TT	GG	GG	INTERGENIC			
SNP_91062_A_63213	NW_004516467.1	scaffold1193	63213	TT	CC	CC	INTERGENIC			
SNP_91063_A_63255	NW_004516467.1	scaffold1193	63255	TT	CC	CC	INTERGENIC			
SNP_91064_A_63291	NW_004516467.1	scaffold1193	63291	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91065_A_128216	NW_004516467.1	scaffold1193	128216	GG	AA	AA	INTERGENIC			
SNP_91066_A_191729	NW_004516467.1	scaffold1193	191729	AA	GG	GG	INTERGENIC			
SNP_91067_A_194079	NW_004516467.1	scaffold1193	194079	CC	AA	AA	INTERGENIC			
SNP_91068_A_194398	NW_004516467.1	scaffold1193	194398	GG	TT	TT	INTERGENIC			
SNP_91069_A_194400	NW_004516467.1	scaffold1193	194400	TT	GG	GG	INTERGENIC			
SNP_91070_A_194401	NW_004516467.1	scaffold1193	194401	TT	GG	GG	INTERGENIC			
SNP_91071_A_222582	NW_004516467.1	scaffold1193	222582	TT	AA	AA	INTERGENIC			
SNP_91072_A_222619	NW_004516467.1	scaffold1193	222619	GG	TT	TT	INTERGENIC			
SNP_91073_A_227269	NW_004516467.1	scaffold1193	227269	TT	CC	CC	INTERGENIC			
SNP_91074_A_237563	NW_004516467.1	scaffold1193	237563	AA	GG	GG	INTERGENIC			
SNP_91075_A_241650	NW_004516467.1	scaffold1193	241650	GG	AA	AA	INTERGENIC			
SNP_91077_A_241720	NW_004516467.1	scaffold1193	241720	TT	CC	CC	INTERGENIC			
SNP_91078_A_241763	NW_004516467.1	scaffold1193	241763	TT	CC	CC	INTERGENIC			
SNP_91079_A_241772	NW_004516467.1	scaffold1193	241772	TT	CC	CC	INTERGENIC			
SNP_91080_A_241865	NW_004516467.1	scaffold1193	241865	CC	AA	AA	INTERGENIC			
SNP_91081_A_241933	NW_004516467.1	scaffold1193	241933	CC	TT	TT	INTERGENIC			
SNP_91082_A_241942	NW_004516467.1	scaffold1193	241942	CC	TT	TT	INTERGENIC			
SNP_91083_A_242043	NW_004516467.1	scaffold1193	242043	AA	GG	GG	INTERGENIC			
SNP_91084_A_242055	NW_004516467.1	scaffold1193	242055	AA	GG	GG	INTERGENIC			
SNP_91085_A_242059	NW_004516467.1	scaffold1193	242059	TT	CC	CC	INTERGENIC			
SNP_91086_A_242203	NW_004516467.1	scaffold1193	242203	TT	GG	GG	INTERGENIC			
SNP_91087_A_242244	NW_004516467.1	scaffold1193	242244	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91088_A_242341	NW_004516467.1	scaffold1193	242341	TT	CC	CC	INTERGENIC			
SNP_91089_A_272765	NW_004516467.1	scaffold1193	272765	AA	GG	GG	INTERGENIC			
SNP_91090_A_272768	NW_004516467.1	scaffold1193	272768	CC	TT	TT	INTERGENIC			
SNP_91091_A_272771	NW_004516467.1	scaffold1193	272771	GG	CC	CC	INTERGENIC			
SNP_91092_A_272777	NW_004516467.1	scaffold1193	272777	CC	TT	TT	INTERGENIC			
SNP_91093_A_272780	NW_004516467.1	scaffold1193	272780	AA	CC	CC	INTERGENIC			
SNP_91094_A_272786	NW_004516467.1	scaffold1193	272786	CC	TT	TT	INTERGENIC			
SNP_91095_A_272805	NW_004516467.1	scaffold1193	272805	AA	GG	GG	INTERGENIC			
SNP_91096_A_272831	NW_004516467.1	scaffold1193	272831	CC	TT	TT	INTERGENIC			
SNP_91097_A_272837	NW_004516467.1	scaffold1193	272837	CC	GG	GG	INTERGENIC			
SNP_91098_A_272843	NW_004516467.1	scaffold1193	272843	CC	TT	TT	INTERGENIC			
SNP_91099_A_272852	NW_004516467.1	scaffold1193	272852	GG	AA	AA	INTERGENIC			
SNP_91100_A_272858	NW_004516467.1	scaffold1193	272858	TT	CC	CC	INTERGENIC			
SNP_91101_A_272900	NW_004516467.1	scaffold1193	272900	CC	TT	TT	INTERGENIC			
SNP_91102_A_272906	NW_004516467.1	scaffold1193	272906	GG	AA	AA	INTERGENIC			
SNP_91103_A_272921	NW_004516467.1	scaffold1193	272921	GG	AA	AA	INTERGENIC			
SNP_91104_A_272924	NW_004516467.1	scaffold1193	272924	TT	CC	CC	INTERGENIC			
SNP_91105_A_275649	NW_004516467.1	scaffold1193	275649	CC	AA	AA	INTERGENIC			
SNP_91106_A_395	NW_004516469.1	scaffold1195	395	GG	AA	AA	INTERGENIC			
SNP_91107_A_16655	NW_004516469.1	scaffold1195	16655	AA	CC	CC	INTERGENIC			
SNP_91109_A_33506	NW_004516469.1	scaffold1195	33506	AA	GG	GG	INTERGENIC			
SNP_91110_A_34933	NW_004516469.1	scaffold1195	34933	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91111_A_34974	NW_004516469.1	scaffold1195	34974	AA	CC	CC	INTERGENIC			
SNP_91112_A_35025	NW_004516469.1	scaffold1195	35025	AA	GG	GG	INTERGENIC			
SNP_91113_A_35084	NW_004516469.1	scaffold1195	35084	TT	CC	CC	INTERGENIC			
SNP_91114_A_35129	NW_004516469.1	scaffold1195	35129	AA	CC	CC	INTERGENIC			
SNP_91115_A_35142	NW_004516469.1	scaffold1195	35142	TT	CC	CC	INTERGENIC			
SNP_91116_A_35180	NW_004516469.1	scaffold1195	35180	AA	GG	GG	INTERGENIC			
SNP_91117_A_35494	NW_004516469.1	scaffold1195	35494	GG	AA	AA	INTERGENIC			
SNP_91118_A_35495	NW_004516469.1	scaffold1195	35495	TT	CC	CC	INTERGENIC			
SNP_91119_A_64064	NW_004516469.1	scaffold1195	64064	AA	GG	GG	INTERGENIC			
SNP_91120_A_64514	NW_004516469.1	scaffold1195	64514	TT	CC	CC	INTERGENIC			
SNP_91121_A_91498	NW_004516469.1	scaffold1195	91498	AA	TT	TT	INTERGENIC			
SNP_91122_A_111932	NW_004516469.1	scaffold1195	111932	AA	TT	TT	INTERGENIC			
SNP_91123_A_2583	NW_004516470.1	scaffold1196	2583	AA	TT	TT	INTERGENIC			
SNP_91124_A_13394	NW_004516470.1	scaffold1196	13394	GG	TT	TT	INTERGENIC			
SNP_91125_A_37124	NW_004516470.1	scaffold1196	37124	AA	GG	GG	INTERGENIC			
SNP_91126_A_37125	NW_004516470.1	scaffold1196	37125	TT	CC	CC	INTERGENIC			
SNP_91127_A_37129	NW_004516470.1	scaffold1196	37129	TT	CC	CC	INTERGENIC			
SNP_91128_A_37137	NW_004516470.1	scaffold1196	37137	AA	CC	CC	INTERGENIC			
SNP_91129_A_37189	NW_004516470.1	scaffold1196	37189	TT	CC	CC	INTERGENIC			
SNP_91130_A_37449	NW_004516470.1	scaffold1196	37449	TT	CC	CC	INTERGENIC			
SNP_91131_A_37482	NW_004516470.1	scaffold1196	37482	AA	GG	GG	INTERGENIC			
SNP_91132_A_37486	NW_004516470.1	scaffold1196	37486	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91134_A_55471	NW_004516470.1	scaffold1196	55471	AA	CC	CC	INTERGENIC			
SNP_91135_A_69977	NW_004516470.1	scaffold1196	69977	AA	GG	GG	INTERGENIC			
SNP_91136_A_70919	NW_004516470.1	scaffold1196	70919	TT	CC	CC	INTERGENIC			
SNP_91137_A_71001	NW_004516470.1	scaffold1196	71001	CC	AA	AA	INTERGENIC			
SNP_91138_A_75682	NW_004516470.1	scaffold1196	75682	CC	AA	AA	INTERGENIC			
SNP_91139_A_78148	NW_004516470.1	scaffold1196	78148	GG	TT	TT	INTERGENIC			
SNP_91140_A_78480	NW_004516470.1	scaffold1196	78480	GG	CC	CC	INTERGENIC			
SNP_91141_A_78506	NW_004516470.1	scaffold1196	78506	AA	TT	TT	INTERGENIC			
SNP_91142_A_78811	NW_004516470.1	scaffold1196	78811	GG	TT	TT	INTERGENIC			
SNP_91143_A_103843	NW_004516470.1	scaffold1196	103843	TT	AA	AA	INTERGENIC			
SNP_91144_A_106246	NW_004516470.1	scaffold1196	106246	AA	GG	GG	INTERGENIC			
SNP_91145_A_111082	NW_004516470.1	scaffold1196	111082	GG	AA	AA	INTERGENIC			
SNP_91146_A_111108	NW_004516470.1	scaffold1196	111108	TT	AA	AA	INTERGENIC			
SNP_91147_A_111597	NW_004516470.1	scaffold1196	111597	AA	TT	TT	INTERGENIC			
SNP_91149_A_115406	NW_004516470.1	scaffold1196	115406	TT	CC	CC	INTERGENIC			
SNP_91150_A_118969	NW_004516470.1	scaffold1196	118969	GG	AA	AA	INTERGENIC			
SNP_91151_A_119622	NW_004516470.1	scaffold1196	119622	AA	CC	CC	INTERGENIC			
SNP_91152_A_119629	NW_004516470.1	scaffold1196	119629	AA	GG	GG	INTERGENIC			
SNP_91153_A_120036	NW_004516470.1	scaffold1196	120036	AA	GG	GG	INTERGENIC			
SNP_91154_A_120533	NW_004516470.1	scaffold1196	120533	TT	GG	GG	INTERGENIC			
SNP_91155_A_134694	NW_004516470.1	scaffold1196	134694	AA	TT	TT	INTERGENIC			
SNP_91156_A_139910	NW_004516470.1	scaffold1196	139910	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91157_A_144419	NW_004516470.1	scaffold1196	144419	CC	TT	TT	INTERGENIC		
SNP_91158_A_144738	NW_004516470.1	scaffold1196	144738	CC	TT	TT	INTERGENIC		
SNP_91159_A_144755	NW_004516470.1	scaffold1196	144755	TT	AA	AA	INTERGENIC		
SNP_91160_A_153078	NW_004516470.1	scaffold1196	153078	AA	GG	GG	INTERGENIC		
SNP_91161_A_167267	NW_004516470.1	scaffold1196	167267	CC	AA	AA	URR	101498593	L-galactono-1,4-lactone dehydrogenase, mitochondrial
SNP_91163_A_182743	NW_004516470.1	scaffold1196	182743	AA	CC	CC	INTERGENIC		
SNP_91164_A_183621	NW_004516470.1	scaffold1196	183621	AA	GG	GG	INTERGENIC		
SNP_91166_A_192878	NW_004516470.1	scaffold1196	192878	TT	CC	CC	INTERGENIC		
SNP_91167_A_192950	NW_004516470.1	scaffold1196	192950	CC	AA	AA	INTERGENIC		
SNP_91168_A_193304	NW_004516470.1	scaffold1196	193304	AA	GG	GG	INTERGENIC		
SNP_91169_A_205962	NW_004516470.1	scaffold1196	205962	CC	AA	AA	INTERGENIC		
SNP_91170_A_206789	NW_004516470.1	scaffold1196	206789	GG	TT	TT	INTERGENIC		
SNP_91171_A_207287	NW_004516470.1	scaffold1196	207287	AA	GG	GG	INTERGENIC		
SNP_91172_A_5059	NW_004516471.1	scaffold1197	5059	TT	CC	CC	INTERGENIC		
SNP_91174_A_5190	NW_004516471.1	scaffold1197	5190	TT	CC	CC	INTERGENIC		
SNP_91175_A_5244	NW_004516471.1	scaffold1197	5244	AA	CC	CC	INTERGENIC		
SNP_91176_A_5271	NW_004516471.1	scaffold1197	5271	TT	AA	AA	INTERGENIC		
SNP_91177_A_5272	NW_004516471.1	scaffold1197	5272	CC	AA	AA	INTERGENIC		
SNP_91178_A_5326	NW_004516471.1	scaffold1197	5326	GG	AA	AA	INTERGENIC		
SNP_91179_A_5332	NW_004516471.1	scaffold1197	5332	AA	GG	GG	INTERGENIC		
SNP_91180_A_5352	NW_004516471.1	scaffold1197	5352	AA	GG	GG	INTERGENIC		
SNP_91181_A_5407	NW_004516471.1	scaffold1197	5407	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91182_A_5411	NW_004516471.1	scaffold1197	5411	GG	AA	AA	INTERGENIC			
SNP_91183_A_5508	NW_004516471.1	scaffold1197	5508	GG	AA	AA	INTERGENIC			
SNP_91184_A_5595	NW_004516471.1	scaffold1197	5595	GG	AA	AA	INTERGENIC			
SNP_91185_A_5615	NW_004516471.1	scaffold1197	5615	AA	GG	GG	INTERGENIC			
SNP_91186_A_5655	NW_004516471.1	scaffold1197	5655	GG	TT	TT	INTERGENIC			
SNP_91187_A_5879	NW_004516471.1	scaffold1197	5879	TT	AA	AA	INTERGENIC			
SNP_91188_A_5880	NW_004516471.1	scaffold1197	5880	GG	TT	TT	INTERGENIC			
SNP_91189_A_5894	NW_004516471.1	scaffold1197	5894	CC	AA	AA	INTERGENIC			
SNP_91190_A_6232	NW_004516471.1	scaffold1197	6232	CC	TT	TT	INTERGENIC			
SNP_91191_A_6243	NW_004516471.1	scaffold1197	6243	TT	CC	CC	INTERGENIC			
SNP_91192_A_9975	NW_004516471.1	scaffold1197	9975	TT	CC	CC	INTERGENIC			
SNP_91193_A_19975	NW_004516471.1	scaffold1197	19975	TT	CC	CC	INTERGENIC			
SNP_91194_A_19980	NW_004516471.1	scaffold1197	19980	TT	CC	CC	INTERGENIC			
SNP_91195_A_23242	NW_004516471.1	scaffold1197	23242	TT	AA	AA	INTERGENIC			
SNP_91196_A_25989	NW_004516471.1	scaffold1197	25989	GG	AA	AA	INTERGENIC			
SNP_91197_A_26009	NW_004516471.1	scaffold1197	26009	CC	AA	AA	INTERGENIC			
SNP_91198_A_26015	NW_004516471.1	scaffold1197	26015	AA	CC	CC	INTERGENIC			
SNP_91199_A_26063	NW_004516471.1	scaffold1197	26063	AA	TT	TT	INTERGENIC			
SNP_91200_A_28092	NW_004516471.1	scaffold1197	28092	AA	GG	GG	INTERGENIC			
SNP_91201_A_28111	NW_004516471.1	scaffold1197	28111	GG	AA	AA	INTERGENIC			
SNP_91202_A_38654	NW_004516471.1	scaffold1197	38654	TT	CC	CC	INTERGENIC			
SNP_91203_A_40336	NW_004516471.1	scaffold1197	40336	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91204_A_44618	NW_004516471.1	scaffold1197	44618	GG	AA	AA	INTERGENIC		
SNP_91205_A_48285	NW_004516471.1	scaffold1197	48285	AA	GG	GG	DRR	101502116	Unknown function
SNP_91206_A_54833	NW_004516471.1	scaffold1197	54833	GG	AA	AA	INTRON	101502116	Unknown function
SNP_91207_A_58181	NW_004516471.1	scaffold1197	58181	AA	TT	TT	INTERGENIC		
SNP_91208_A_58196	NW_004516471.1	scaffold1197	58196	CC	TT	TT	INTERGENIC		
SNP_91209_A_58374	NW_004516471.1	scaffold1197	58374	TT	CC	CC	INTERGENIC		
SNP_91210_A_58522	NW_004516471.1	scaffold1197	58522	CC	TT	TT	INTERGENIC		
SNP_91211_A_58587	NW_004516471.1	scaffold1197	58587	TT	AA	AA	INTERGENIC		
SNP_91212_A_58619	NW_004516471.1	scaffold1197	58619	GG	AA	AA	INTERGENIC		
SNP_91213_A_72858	NW_004516471.1	scaffold1197	72858	CC	AA	AA	NON_SYNONYMOUS_CODING	101503052	Unknown function
SNP_91216_A_87101	NW_004516471.1	scaffold1197	87101	AA	GG	GG	INTERGENIC		
SNP_91217_A_87157	NW_004516471.1	scaffold1197	87157	TT	CC	CC	INTERGENIC		
SNP_91218_A_87263	NW_004516471.1	scaffold1197	87263	AA	TT	TT	INTERGENIC		
SNP_91219_A_87425	NW_004516471.1	scaffold1197	87425	TT	AA	AA	INTERGENIC		
SNP_91221_A_136559	NW_004516471.1	scaffold1197	136559	GG	AA	AA	INTERGENIC		
SNP_91222_A_142109	NW_004516471.1	scaffold1197	142109	TT	AA	AA	INTERGENIC		
SNP_91223_A_142202	NW_004516471.1	scaffold1197	142202	CC	AA	AA	INTERGENIC		
SNP_91224_A_142218	NW_004516471.1	scaffold1197	142218	TT	AA	AA	INTERGENIC		
SNP_91225_A_142354	NW_004516471.1	scaffold1197	142354	TT	CC	CC	INTERGENIC		
SNP_91227_A_142360	NW_004516471.1	scaffold1197	142360	GG	AA	AA	INTERGENIC		
SNP_91228_A_142361	NW_004516471.1	scaffold1197	142361	TT	CC	CC	INTERGENIC		
SNP_91229_A_142412	NW_004516471.1	scaffold1197	142412	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91231_A_147272	NW_004516471.1	scaffold1197	147272	TT	CC	CC	INTERGENIC		
SNP_91232_A_151652	NW_004516471.1	scaffold1197	151652	GG	AA	AA	INTERGENIC		
SNP_91233_A_173109	NW_004516471.1	scaffold1197	173109	GG	AA	AA	INTRON	101499568	TMV resistance protein N-like
SNP_91234_A_186736	NW_004516471.1	scaffold1197	186736	TT	CC	CC	INTERGENIC		
SNP_91235_A_187928	NW_004516471.1	scaffold1197	187928	CC	AA	AA	INTERGENIC		
SNP_91236_A_191500	NW_004516471.1	scaffold1197	191500	CC	TT	TT	INTERGENIC		
SNP_91237_A_191505	NW_004516471.1	scaffold1197	191505	TT	CC	CC	INTERGENIC		
SNP_91238_A_196631	NW_004516471.1	scaffold1197	196631	CC	TT	TT	INTERGENIC		
SNP_91240_A_210213	NW_004516471.1	scaffold1197	210213	GG	AA	AA	INTERGENIC		
SNP_91241_A_211311	NW_004516471.1	scaffold1197	211311	CC	TT	TT	INTERGENIC		
SNP_91242_A_231267	NW_004516471.1	scaffold1197	231267	AA	GG	GG	INTERGENIC		
SNP_91243_A_237169	NW_004516471.1	scaffold1197	237169	CC	TT	TT	INTERGENIC		
SNP_91245_A_248574	NW_004516471.1	scaffold1197	248574	CC	TT	TT	INTERGENIC		
SNP_91246_A_248598	NW_004516471.1	scaffold1197	248598	TT	CC	CC	INTERGENIC		
SNP_91247_A_260999	NW_004516471.1	scaffold1197	260999	CC	TT	TT	INTERGENIC		
SNP_91249_A_369634	NW_004516471.1	scaffold1197	369634	TT	GG	GG	INTERGENIC		
SNP_91250_A_380702	NW_004516471.1	scaffold1197	380702	CC	TT	TT	INTERGENIC		
SNP_91251_A_427634	NW_004516471.1	scaffold1197	427634	GG	AA	AA	INTERGENIC		
SNP_91252_A_433819	NW_004516471.1	scaffold1197	433819	AA	CC	CC	INTERGENIC		
SNP_91253_A_439519	NW_004516471.1	scaffold1197	439519	GG	AA	AA	INTERGENIC		
SNP_91254_A_447863	NW_004516471.1	scaffold1197	447863	AA	GG	GG	INTERGENIC		
SNP_91255_A_447900	NW_004516471.1	scaffold1197	447900	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91256_A_447909	NW_004516471.1	scaffold1197	447909	GG	CC	CC	INTERGENIC		
SNP_91257_A_447940	NW_004516471.1	scaffold1197	447940	GG	TT	TT	INTERGENIC		
SNP_91258_A_447991	NW_004516471.1	scaffold1197	447991	AA	GG	GG	INTERGENIC		
SNP_91259_A_510655	NW_004516471.1	scaffold1197	510655	GG	AA	AA	INTRON	101505324	uncharacterized LOC101505324
SNP_91260_A_510674	NW_004516471.1	scaffold1197	510674	TT	CC	CC	INTRON	101505324	uncharacterized LOC101505324
SNP_91261_A_510709	NW_004516471.1	scaffold1197	510709	CC	TT	TT	INTRON	101505324	uncharacterized LOC101505324
SNP_91262_A_510760	NW_004516471.1	scaffold1197	510760	TT	CC	CC	INTRON	101505324	uncharacterized LOC101505324
SNP_91263_A_511060	NW_004516471.1	scaffold1197	511060	AA	TT	TT	INTRON	101505324	uncharacterized LOC101505324
SNP_91264_A_511145	NW_004516471.1	scaffold1197	511145	TT	AA	AA	INTRON	101505324	uncharacterized LOC101505324
SNP_91265_A_511169	NW_004516471.1	scaffold1197	511169	GG	AA	AA	INTRON	101505324	uncharacterized LOC101505324
SNP_91266_A_511189	NW_004516471.1	scaffold1197	511189	GG	TT	TT	INTRON	101505324	uncharacterized LOC101505324
SNP_91267_A_511190	NW_004516471.1	scaffold1197	511190	AA	GG	GG	INTRON	101505324	uncharacterized LOC101505324
SNP_91268_A_540953	NW_004516471.1	scaffold1197	540953	AA	TT	TT	INTERGENIC		
SNP_91270_A_550231	NW_004516471.1	scaffold1197	550231	TT	AA	AA	INTERGENIC		
SNP_91271_A_550239	NW_004516471.1	scaffold1197	550239	TT	GG	GG	INTERGENIC		
SNP_91272_A_530	NW_004516472.1	scaffold1198	530	TT	CC	CC	INTERGENIC		
SNP_91273_A_667	NW_004516472.1	scaffold1198	667	AA	GG	GG	INTERGENIC		
SNP_91274_A_707	NW_004516472.1	scaffold1198	707	AA	GG	GG	INTERGENIC		
SNP_91275_A_772	NW_004516472.1	scaffold1198	772	CC	TT	TT	INTERGENIC		
SNP_91278_A_68953	NW_004516473.1	scaffold1202	68953	GG	CC	CC	INTERGENIC		
SNP_91279_A_68954	NW_004516473.1	scaffold1202	68954	AA	TT	TT	INTERGENIC		
SNP_91282_A_87206	NW_004516473.1	scaffold1202	87206	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91283_A_111890	NW_004516473.1	scaffold1202	111890	CC	GG	GG	INTERGENIC		
SNP_91284_A_135080	NW_004516473.1	scaffold1202	135080	GG	CC	CC	INTERGENIC		
SNP_91285_A_159079	NW_004516473.1	scaffold1202	159079	AA	GG	GG	INTERGENIC		
SNP_91286_A_166085	NW_004516473.1	scaffold1202	166085	GG	AA	AA	INTERGENIC		
SNP_91287_A_177022	NW_004516473.1	scaffold1202	177022	CC	GG	GG	INTERGENIC		
SNP_91288_A_177025	NW_004516473.1	scaffold1202	177025	TT	CC	CC	INTERGENIC		
SNP_91289_A_177033	NW_004516473.1	scaffold1202	177033	TT	CC	CC	INTERGENIC		
SNP_91290_A_177036	NW_004516473.1	scaffold1202	177036	TT	GG	GG	INTERGENIC		
SNP_91291_A_177043	NW_004516473.1	scaffold1202	177043	TT	CC	CC	INTERGENIC		
SNP_91293_A_178507	NW_004516473.1	scaffold1202	178507	TT	GG	GG	DRR	101510580	Unknown function
SNP_91294_A_178509	NW_004516473.1	scaffold1202	178509	GG	AA	AA	DRR	101510580	Unknown function
SNP_91295_A_178562	NW_004516473.1	scaffold1202	178562	TT	GG	GG	DRR	101510580	Unknown function
SNP_91297_A_178880	NW_004516473.1	scaffold1202	178880	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91298_A_178898	NW_004516473.1	scaffold1202	178898	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91299_A_178917	NW_004516473.1	scaffold1202	178917	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91300_A_178992	NW_004516473.1	scaffold1202	178992	CC	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91301_A_178999	NW_004516473.1	scaffold1202	178999	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91302_A_179056	NW_004516473.1	scaffold1202	179056	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91303_A_179069	NW_004516473.1	scaffold1202	179069	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91304_A_179089	NW_004516473.1	scaffold1202	179089	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91305_A_179095	NW_004516473.1	scaffold1202	179095	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91306_A_179096	NW_004516473.1	scaffold1202	179096	AA	GG	GG	URR	101511537	uncharacterized LOC101511537

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91307_A_179098	NW_004516473.1	scaffold1202	179098	GG	TT	TT	URR	101511537	uncharacterized LOC101511537
SNP_91308_A_179127	NW_004516473.1	scaffold1202	179127	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91309_A_179148	NW_004516473.1	scaffold1202	179148	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91310_A_179152	NW_004516473.1	scaffold1202	179152	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91311_A_179197	NW_004516473.1	scaffold1202	179197	CC	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91312_A_179220	NW_004516473.1	scaffold1202	179220	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91313_A_179221	NW_004516473.1	scaffold1202	179221	GG	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91314_A_179272	NW_004516473.1	scaffold1202	179272	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91315_A_179290	NW_004516473.1	scaffold1202	179290	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91316_A_179488	NW_004516473.1	scaffold1202	179488	TT	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91317_A_179498	NW_004516473.1	scaffold1202	179498	AA	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91318_A_179503	NW_004516473.1	scaffold1202	179503	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91319_A_179517	NW_004516473.1	scaffold1202	179517	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91320_A_179556	NW_004516473.1	scaffold1202	179556	TT	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91321_A_179574	NW_004516473.1	scaffold1202	179574	CC	TT	TT	URR	101511537	uncharacterized LOC101511537
SNP_91323_A_179622	NW_004516473.1	scaffold1202	179622	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91324_A_179724	NW_004516473.1	scaffold1202	179724	TT	CC	CC	URR	101511537	uncharacterized LOC101511537
SNP_91325_A_179743	NW_004516473.1	scaffold1202	179743	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91326_A_179752	NW_004516473.1	scaffold1202	179752	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91327_A_179754	NW_004516473.1	scaffold1202	179754	CC	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91328_A_179781	NW_004516473.1	scaffold1202	179781	AA	GG	GG	URR	101511537	uncharacterized LOC101511537
SNP_91329_A_183386	NW_004516473.1	scaffold1202	183386	AA	CC	CC	URR	101509926	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91330_A_183458	NW_004516473.1	scaffold1202	183458	TT	AA	AA	URR	101509926	Unknown function
SNP_91331_A_183631	NW_004516473.1	scaffold1202	183631	TT	AA	AA	INTERGENIC		
SNP_91332_A_183660	NW_004516473.1	scaffold1202	183660	AA	GG	GG	INTERGENIC		
SNP_91333_A_183675	NW_004516473.1	scaffold1202	183675	TT	CC	CC	INTERGENIC		
SNP_91335_A_190447	NW_004516473.1	scaffold1202	190447	CC	TT	TT	INTERGENIC		
SNP_91336_A_190651	NW_004516473.1	scaffold1202	190651	AA	CC	CC	INTERGENIC		
SNP_91337_A_190770	NW_004516473.1	scaffold1202	190770	AA	CC	CC	INTERGENIC		
SNP_91338_A_190791	NW_004516473.1	scaffold1202	190791	AA	TT	TT	INTERGENIC		
SNP_91339_A_190857	NW_004516473.1	scaffold1202	190857	CC	AA	AA	INTERGENIC		
SNP_91340_A_190899	NW_004516473.1	scaffold1202	190899	GG	TT	TT	INTERGENIC		
SNP_91341_A_190908	NW_004516473.1	scaffold1202	190908	CC	AA	AA	INTERGENIC		
SNP_91342_A_190913	NW_004516473.1	scaffold1202	190913	AA	GG	GG	INTERGENIC		
SNP_91343_A_190998	NW_004516473.1	scaffold1202	190998	CC	TT	TT	INTERGENIC		
SNP_91344_A_204206	NW_004516473.1	scaffold1202	204206	GG	CC	CC	INTERGENIC		
SNP_91345_A_227553	NW_004516473.1	scaffold1202	227553	AA	GG	GG	INTERGENIC		
SNP_91346_A_227605	NW_004516473.1	scaffold1202	227605	GG	AA	AA	INTERGENIC		
SNP_91347_A_227640	NW_004516473.1	scaffold1202	227640	AA	GG	GG	INTERGENIC		
SNP_91348_A_227644	NW_004516473.1	scaffold1202	227644	AA	TT	TT	INTERGENIC		
SNP_91349_A_227685	NW_004516473.1	scaffold1202	227685	GG	AA	AA	INTERGENIC		
SNP_91350_A_227688	NW_004516473.1	scaffold1202	227688	CC	TT	TT	INTERGENIC		
SNP_91351_A_227809	NW_004516473.1	scaffold1202	227809	AA	GG	GG	INTERGENIC		
SNP_91352_A_227903	NW_004516473.1	scaffold1202	227903	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91353_A_227957	NW_004516473.1	scaffold1202	227957	CC	AA	AA	INTERGENIC			
SNP_91354_A_228080	NW_004516473.1	scaffold1202	228080	CC	AA	AA	INTERGENIC			
SNP_91355_A_228137	NW_004516473.1	scaffold1202	228137	TT	CC	CC	INTERGENIC			
SNP_91356_A_228168	NW_004516473.1	scaffold1202	228168	CC	GG	GG	INTERGENIC			
SNP_91357_A_228179	NW_004516473.1	scaffold1202	228179	AA	GG	GG	INTERGENIC			
SNP_91358_A_228256	NW_004516473.1	scaffold1202	228256	TT	CC	CC	INTERGENIC			
SNP_91359_A_228289	NW_004516473.1	scaffold1202	228289	GG	CC	CC	INTERGENIC			
SNP_91360_A_228654	NW_004516473.1	scaffold1202	228654	CC	TT	TT	INTERGENIC			
SNP_91361_A_270445	NW_004516473.1	scaffold1202	270445	TT	AA	AA	INTERGENIC			
SNP_91362_A_289014	NW_004516473.1	scaffold1202	289014	GG	CC	CC	INTERGENIC			
SNP_91363_A_289383	NW_004516473.1	scaffold1202	289383	GG	AA	AA	INTERGENIC			
SNP_91364_A_289405	NW_004516473.1	scaffold1202	289405	AA	CC	CC	INTERGENIC			
SNP_91366_A_463	NW_004516474.1	scaffold1206	463	CC	TT	TT	INTERGENIC			
SNP_91367_A_616	NW_004516474.1	scaffold1206	616	GG	AA	AA	INTERGENIC			
SNP_91368_A_653	NW_004516474.1	scaffold1206	653	GG	CC	CC	INTERGENIC			
SNP_91369_A_681	NW_004516474.1	scaffold1206	681	AA	GG	GG	INTERGENIC			
SNP_91370_A_709	NW_004516474.1	scaffold1206	709	AA	GG	GG	INTERGENIC			
SNP_91372_A_950	NW_004516474.1	scaffold1206	950	CC	GG	GG	INTERGENIC			
SNP_91373_A_993	NW_004516474.1	scaffold1206	993	TT	CC	CC	INTERGENIC			
SNP_91374_A_995	NW_004516474.1	scaffold1206	995	GG	AA	AA	INTERGENIC			
SNP_91375_A_4542	NW_004516475.1	scaffold1207	4542	TT	AA	AA	INTERGENIC			
SNP_91376_A_660	NW_004516476.1	scaffold1210	660	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91377_A_12541	NW_004516479.1	scaffold1215	12541	AA	CC	CC	INTERGENIC			
SNP_91378_A_12612	NW_004516479.1	scaffold1215	12612	AA	GG	GG	INTERGENIC			
SNP_91379_A_12627	NW_004516479.1	scaffold1215	12627	CC	AA	AA	INTERGENIC			
SNP_91381_A_12752	NW_004516479.1	scaffold1215	12752	TT	CC	CC	INTERGENIC			
SNP_91382_A_12824	NW_004516479.1	scaffold1215	12824	TT	CC	CC	INTERGENIC			
SNP_91383_A_12891	NW_004516479.1	scaffold1215	12891	GG	TT	TT	INTERGENIC			
SNP_91384_A_12941	NW_004516479.1	scaffold1215	12941	TT	GG	GG	INTERGENIC			
SNP_91386_A_13026	NW_004516479.1	scaffold1215	13026	AA	GG	GG	INTERGENIC			
SNP_91387_A_13045	NW_004516479.1	scaffold1215	13045	GG	AA	AA	INTERGENIC			
SNP_91388_A_13100	NW_004516479.1	scaffold1215	13100	TT	CC	CC	INTERGENIC			
SNP_91389_A_13129	NW_004516479.1	scaffold1215	13129	CC	TT	TT	INTERGENIC			
SNP_91390_A_13136	NW_004516479.1	scaffold1215	13136	TT	GG	GG	INTERGENIC			
SNP_91391_A_13151	NW_004516479.1	scaffold1215	13151	AA	GG	GG	INTERGENIC			
SNP_91392_A_13188	NW_004516479.1	scaffold1215	13188	TT	AA	AA	INTERGENIC			
SNP_91393_A_13249	NW_004516479.1	scaffold1215	13249	GG	AA	AA	INTERGENIC			
SNP_91394_A_13351	NW_004516479.1	scaffold1215	13351	GG	AA	AA	INTERGENIC			
SNP_91395_A_13353	NW_004516479.1	scaffold1215	13353	TT	CC	CC	INTERGENIC			
SNP_91396_A_13398	NW_004516479.1	scaffold1215	13398	TT	CC	CC	INTERGENIC			
SNP_91397_A_13495	NW_004516479.1	scaffold1215	13495	GG	TT	TT	INTERGENIC			
SNP_91398_A_13539	NW_004516479.1	scaffold1215	13539	AA	GG	GG	INTERGENIC			
SNP_91399_A_13610	NW_004516479.1	scaffold1215	13610	GG	AA	AA	INTERGENIC			
SNP_91401_A_13746	NW_004516479.1	scaffold1215	13746	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91402_A_14031	NW_004516479.1	scaffold1215	14031	CC	TT	TT	INTERGENIC		
SNP_91404_A_14080	NW_004516479.1	scaffold1215	14080	CC	TT	TT	INTERGENIC		
SNP_91405_A_14098	NW_004516479.1	scaffold1215	14098	AA	GG	GG	INTERGENIC		
SNP_91406_A_14207	NW_004516479.1	scaffold1215	14207	TT	GG	GG	INTERGENIC		
SNP_91407_A_14340	NW_004516479.1	scaffold1215	14340	TT	CC	CC	INTERGENIC		
SNP_91408_A_14357	NW_004516479.1	scaffold1215	14357	AA	TT	TT	INTERGENIC		
SNP_91409_A_14405	NW_004516479.1	scaffold1215	14405	GG	AA	AA	INTERGENIC		
SNP_91410_A_14434	NW_004516479.1	scaffold1215	14434	CC	GG	GG	INTERGENIC		
SNP_91411_A_16811	NW_004516479.1	scaffold1215	16811	GG	CC	CC	INTERGENIC		
SNP_91412_A_16948	NW_004516479.1	scaffold1215	16948	GG	TT	TT	INTERGENIC		
SNP_91413_A_17303	NW_004516479.1	scaffold1215	17303	AA	GG	GG	INTERGENIC		
SNP_91414_A_17941	NW_004516479.1	scaffold1215	17941	AA	CC	CC	DRR	101512182	uncharacterized LOC101512182
SNP_91415_A_35885	NW_004516479.1	scaffold1215	35885	TT	AA	AA	INTRON	101512628	cucumis-in-like
SNP_91416_A_35986	NW_004516479.1	scaffold1215	35986	TT	CC	CC	INTRON	101512628	cucumis-in-like
SNP_91417_A_36174	NW_004516479.1	scaffold1215	36174	GG	AA	AA	INTRON	101512628	cucumis-in-like
SNP_91418_A_36175	NW_004516479.1	scaffold1215	36175	GG	CC	CC	INTRON	101512628	cucumis-in-like
SNP_91419_A_36264	NW_004516479.1	scaffold1215	36264	TT	CC	CC	INTRON	101512628	cucumis-in-like
SNP_91420_A_36381	NW_004516479.1	scaffold1215	36381	GG	AA	AA	INTRON	101512628	cucumis-in-like
SNP_91421_A_41363	NW_004516479.1	scaffold1215	41363	AA	GG	GG	INTRON	101512628	cucumis-in-like
SNP_91422_A_41470	NW_004516479.1	scaffold1215	41470	CC	TT	TT	INTRON	101512628	cucumis-in-like
SNP_91423_A_41478	NW_004516479.1	scaffold1215	41478	AA	CC	CC	INTRON	101512628	cucumis-in-like
SNP_91424_A_41503	NW_004516479.1	scaffold1215	41503	CC	TT	TT	INTRON	101512628	cucumis-in-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91426_A_42150	NW_004516479.1	scaffold1215	42150	GG	AA	AA	SYNONYMOUS_CODING	101512628	cucumis-in-like
SNP_91427_A_42164	NW_004516479.1	scaffold1215	42164	CC	GG	GG	NON_SYNONYMOUS_CODING	101512628	cucumis-in-like
SNP_91428_A_44423	NW_004516479.1	scaffold1215	44423	TT	CC	CC	URR	101512628	cucumis-in-like
SNP_91429_A_44447	NW_004516479.1	scaffold1215	44447	AA	TT	TT	URR	101512628	cucumis-in-like
SNP_91431_A_44650	NW_004516479.1	scaffold1215	44650	CC	TT	TT	URR	101512628	cucumis-in-like
SNP_91432_A_44672	NW_004516479.1	scaffold1215	44672	AA	TT	TT	URR	101512628	cucumis-in-like
SNP_91434_A_45699	NW_004516479.1	scaffold1215	45699	GG	AA	AA	INTERGENIC		
SNP_91436_A_245	NW_004516480.1	scaffold1216	245	GG	AA	AA	INTERGENIC		
SNP_91437_A_269	NW_004516480.1	scaffold1216	269	TT	AA	AA	INTERGENIC		
SNP_91438_A_305	NW_004516480.1	scaffold1216	305	AA	GG	GG	INTERGENIC		
SNP_91439_A_364	NW_004516480.1	scaffold1216	364	GG	AA	AA	INTERGENIC		
SNP_91440_A_404	NW_004516480.1	scaffold1216	404	CC	TT	TT	INTERGENIC		
SNP_91441_A_486	NW_004516480.1	scaffold1216	486	CC	TT	TT	INTERGENIC		
SNP_91442_A_549	NW_004516480.1	scaffold1216	549	TT	AA	AA	INTERGENIC		
SNP_91443_A_935	NW_004516480.1	scaffold1216	935	AA	TT	TT	INTERGENIC		
SNP_91444_A_3404	NW_004516480.1	scaffold1216	3404	GG	CC	CC	INTERGENIC		
SNP_91445_A_3656	NW_004516480.1	scaffold1216	3656	CC	TT	TT	INTERGENIC		
SNP_91446_A_3890	NW_004516480.1	scaffold1216	3890	AA	TT	TT	INTERGENIC		
SNP_91447_A_4210	NW_004516480.1	scaffold1216	4210	GG	TT	TT	INTERGENIC		
SNP_91448_A_4555	NW_004516480.1	scaffold1216	4555	CC	TT	TT	INTERGENIC		
SNP_91449_A_4609	NW_004516480.1	scaffold1216	4609	AA	GG	GG	INTERGENIC		
SNP_91450_A_4832	NW_004516480.1	scaffold1216	4832	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91451_A_4842	NW_004516480.1	scaffold1216	4842	TT	CC	CC	INTERGENIC			
SNP_91452_A_4844	NW_004516480.1	scaffold1216	4844	GG	AA	AA	INTERGENIC			
SNP_91453_A_5118	NW_004516480.1	scaffold1216	5118	AA	TT	TT	INTERGENIC			
SNP_91454_A_5128	NW_004516480.1	scaffold1216	5128	AA	GG	GG	INTERGENIC			
SNP_91455_A_5176	NW_004516480.1	scaffold1216	5176	TT	CC	CC	INTERGENIC			
SNP_91456_A_5209	NW_004516480.1	scaffold1216	5209	CC	TT	TT	INTERGENIC			
SNP_91457_A_5234	NW_004516480.1	scaffold1216	5234	AA	TT	TT	INTERGENIC			
SNP_91458_A_12659	NW_004516480.1	scaffold1216	12659	GG	TT	TT	INTERGENIC			
SNP_91459_A_12890	NW_004516480.1	scaffold1216	12890	AA	GG	GG	INTERGENIC			
SNP_91460_A_13072	NW_004516480.1	scaffold1216	13072	TT	AA	AA	INTERGENIC			
SNP_91461_A_13266	NW_004516480.1	scaffold1216	13266	CC	TT	TT	INTERGENIC			
SNP_91462_A_13290	NW_004516480.1	scaffold1216	13290	CC	TT	TT	INTERGENIC			
SNP_91463_A_13308	NW_004516480.1	scaffold1216	13308	TT	AA	AA	INTERGENIC			
SNP_91464_A_13444	NW_004516480.1	scaffold1216	13444	GG	TT	TT	INTERGENIC			
SNP_91465_A_13447	NW_004516480.1	scaffold1216	13447	AA	TT	TT	INTERGENIC			
SNP_91466_A_14207	NW_004516480.1	scaffold1216	14207	AA	TT	TT	INTERGENIC			
SNP_91467_A_14267	NW_004516480.1	scaffold1216	14267	CC	TT	TT	INTERGENIC			
SNP_91468_A_14844	NW_004516480.1	scaffold1216	14844	TT	GG	GG	INTERGENIC			
SNP_91469_A_14871	NW_004516480.1	scaffold1216	14871	AA	GG	GG	INTERGENIC			
SNP_91470_A_14885	NW_004516480.1	scaffold1216	14885	TT	CC	CC	INTERGENIC			
SNP_91471_A_15785	NW_004516480.1	scaffold1216	15785	AA	GG	GG	INTERGENIC			
SNP_91472_A_15786	NW_004516480.1	scaffold1216	15786	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91473_A_16054	NW_004516480.1	scaffold1216	16054	GG	CC	CC	INTERGENIC			
SNP_91474_A_16109	NW_004516480.1	scaffold1216	16109	GG	AA	AA	INTERGENIC			
SNP_91475_A_16162	NW_004516480.1	scaffold1216	16162	AA	TT	TT	INTERGENIC			
SNP_91476_A_16283	NW_004516480.1	scaffold1216	16283	TT	CC	CC	INTERGENIC			
SNP_91477_A_16376	NW_004516480.1	scaffold1216	16376	CC	AA	AA	INTERGENIC			
SNP_91478_A_16418	NW_004516480.1	scaffold1216	16418	GG	TT	TT	INTERGENIC			
SNP_91479_A_16432	NW_004516480.1	scaffold1216	16432	TT	GG	GG	INTERGENIC			
SNP_91480_A_16433	NW_004516480.1	scaffold1216	16433	GG	AA	AA	INTERGENIC			
SNP_91481_A_16504	NW_004516480.1	scaffold1216	16504	TT	CC	CC	INTERGENIC			
SNP_91482_A_16552	NW_004516480.1	scaffold1216	16552	GG	AA	AA	INTERGENIC			
SNP_91483_A_16701	NW_004516480.1	scaffold1216	16701	AA	TT	TT	INTERGENIC			
SNP_91484_A_16745	NW_004516480.1	scaffold1216	16745	CC	TT	TT	INTERGENIC			
SNP_91485_A_16756	NW_004516480.1	scaffold1216	16756	TT	AA	AA	INTERGENIC			
SNP_91486_A_16814	NW_004516480.1	scaffold1216	16814	CC	AA	AA	INTERGENIC			
SNP_91487_A_16816	NW_004516480.1	scaffold1216	16816	GG	CC	CC	INTERGENIC			
SNP_91488_A_16878	NW_004516480.1	scaffold1216	16878	TT	AA	AA	INTERGENIC			
SNP_91489_A_16918	NW_004516480.1	scaffold1216	16918	AA	GG	GG	INTERGENIC			
SNP_91490_A_16944	NW_004516480.1	scaffold1216	16944	AA	GG	GG	INTERGENIC			
SNP_91491_A_16955	NW_004516480.1	scaffold1216	16955	CC	TT	TT	INTERGENIC			
SNP_91492_A_17014	NW_004516480.1	scaffold1216	17014	TT	CC	CC	INTERGENIC			
SNP_91493_A_17025	NW_004516480.1	scaffold1216	17025	GG	CC	CC	INTERGENIC			
SNP_91494_A_17064	NW_004516480.1	scaffold1216	17064	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91495_A_17105	NW_004516480.1	scaffold1216	17105	TT	AA	AA	INTERGENIC			
SNP_91496_A_17113	NW_004516480.1	scaffold1216	17113	AA	GG	GG	INTERGENIC			
SNP_91497_A_17186	NW_004516480.1	scaffold1216	17186	GG	TT	TT	INTERGENIC			
SNP_91498_A_17552	NW_004516480.1	scaffold1216	17552	TT	CC	CC	INTERGENIC			
SNP_91499_A_20501	NW_004516480.1	scaffold1216	20501	CC	TT	TT	INTERGENIC			
SNP_91500_A_20523	NW_004516480.1	scaffold1216	20523	AA	TT	TT	INTERGENIC			
SNP_91501_A_20631	NW_004516480.1	scaffold1216	20631	AA	TT	TT	INTERGENIC			
SNP_91502_A_20633	NW_004516480.1	scaffold1216	20633	GG	TT	TT	INTERGENIC			
SNP_91503_A_20653	NW_004516480.1	scaffold1216	20653	GG	CC	CC	INTERGENIC			
SNP_91504_A_20780	NW_004516480.1	scaffold1216	20780	GG	CC	CC	INTERGENIC			
SNP_91505_A_20791	NW_004516480.1	scaffold1216	20791	AA	TT	TT	INTERGENIC			
SNP_91506_A_20806	NW_004516480.1	scaffold1216	20806	TT	AA	AA	INTERGENIC			
SNP_91507_A_20816	NW_004516480.1	scaffold1216	20816	TT	CC	CC	INTERGENIC			
SNP_91508_A_21062	NW_004516480.1	scaffold1216	21062	AA	GG	GG	INTERGENIC			
SNP_91509_A_21393	NW_004516480.1	scaffold1216	21393	GG	CC	CC	INTERGENIC			
SNP_91510_A_21851	NW_004516480.1	scaffold1216	21851	AA	CC	CC	INTERGENIC			
SNP_91511_A_21868	NW_004516480.1	scaffold1216	21868	CC	AA	AA	INTERGENIC			
SNP_91512_A_22111	NW_004516480.1	scaffold1216	22111	TT	AA	AA	INTERGENIC			
SNP_91513_A_22128	NW_004516480.1	scaffold1216	22128	CC	AA	AA	INTERGENIC			
SNP_91514_A_6381	NW_004516482.1	scaffold1219	6381	AA	GG	GG	INTERGENIC			
SNP_91515_A_6475	NW_004516482.1	scaffold1219	6475	GG	AA	AA	INTERGENIC			
SNP_91516_A_6656	NW_004516482.1	scaffold1219	6656	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91517_A_6965	NW_004516482.1	scaffold1219	6965	AA	TT	TT	INTERGENIC		
SNP_91518_A_6985	NW_004516482.1	scaffold1219	6985	TT	CC	CC	INTERGENIC		
SNP_91519_A_6991	NW_004516482.1	scaffold1219	6991	GG	AA	AA	INTERGENIC		
SNP_91520_A_7034	NW_004516482.1	scaffold1219	7034	CC	TT	TT	INTERGENIC		
SNP_91521_A_7073	NW_004516482.1	scaffold1219	7073	AA	TT	TT	INTERGENIC		
SNP_91522_A_7087	NW_004516482.1	scaffold1219	7087	TT	GG	GG	INTERGENIC		
SNP_91523_A_7108	NW_004516482.1	scaffold1219	7108	GG	AA	AA	INTERGENIC		
SNP_91525_A_7214	NW_004516482.1	scaffold1219	7214	TT	CC	CC	INTERGENIC		
SNP_91526_A_7308	NW_004516482.1	scaffold1219	7308	GG	TT	TT	INTERGENIC		
SNP_91528_A_11097	NW_004516482.1	scaffold1219	11097	TT	CC	CC	INTERGENIC		
SNP_91529_A_11137	NW_004516482.1	scaffold1219	11137	TT	CC	CC	INTERGENIC		
SNP_91530_A_11324	NW_004516482.1	scaffold1219	11324	CC	TT	TT	INTERGENIC		
SNP_91531_A_11445	NW_004516482.1	scaffold1219	11445	TT	GG	GG	INTERGENIC		
SNP_91532_A_11470	NW_004516482.1	scaffold1219	11470	CC	TT	TT	INTERGENIC		
SNP_91533_A_11504	NW_004516482.1	scaffold1219	11504	CC	TT	TT	INTERGENIC		
SNP_91534_A_11840	NW_004516482.1	scaffold1219	11840	AA	GG	GG	INTERGENIC		
SNP_91535_A_13021	NW_004516482.1	scaffold1219	13021	GG	AA	AA	DRR	101513262	probable receptor-like protein kinase At2g47060
SNP_91536_A_13367	NW_004516482.1	scaffold1219	13367	CC	AA	AA	NON_SYNONYMOUS_CODING	101513262	probable receptor-like protein kinase At2g47060
SNP_91537_A_14923	NW_004516482.1	scaffold1219	14923	CC	TT	TT	INTRON	101513262	probable receptor-like protein kinase At2g47060
SNP_91538_A_15245	NW_004516482.1	scaffold1219	15245	TT	GG	GG	INTRON	101513262	probable receptor-like protein kinase At2g47060
SNP_91539_A_16442	NW_004516482.1	scaffold1219	16442	CC	AA	AA	URR	101513262	probable receptor-like protein kinase At2g47060
SNP_91540_A_16513	NW_004516482.1	scaffold1219	16513	TT	GG	GG	URR	101513262	probable receptor-like protein kinase At2g47060

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91541_A_16658	NW_004516482.1	scaffold1219	16658	TT	AA	AA	URR	101513262	probable receptor-like protein kinase At2g47060
SNP_91542_A_16669	NW_004516482.1	scaffold1219	16669	AA	TT	TT	URR	101513262	probable receptor-like protein kinase At2g47060
SNP_91543_A_16706	NW_004516482.1	scaffold1219	16706	GG	TT	TT	URR	101513262	probable receptor-like protein kinase At2g47060
SNP_91544_A_29147	NW_004516482.1	scaffold1219	29147	CC	TT	TT	INTERGENIC		
SNP_91545_A_29201	NW_004516482.1	scaffold1219	29201	AA	CC	CC	INTERGENIC		
SNP_91547_A_54163	NW_004516482.1	scaffold1219	54163	GG	CC	CC	INTERGENIC		
SNP_91548_A_60031	NW_004516482.1	scaffold1219	60031	CC	AA	AA	INTERGENIC		
SNP_91549_A_112103	NW_004516482.1	scaffold1219	112103	GG	AA	AA	INTERGENIC		
SNP_91550_A_112133	NW_004516482.1	scaffold1219	112133	AA	GG	GG	INTERGENIC		
SNP_91551_A_8876	NW_004516484.1	scaffold1221	8876	AA	GG	GG	INTERGENIC		
SNP_91552_A_9079	NW_004516484.1	scaffold1221	9079	AA	GG	GG	INTERGENIC		
SNP_91553_A_9088	NW_004516484.1	scaffold1221	9088	GG	CC	CC	INTERGENIC		
SNP_91554_A_9141	NW_004516484.1	scaffold1221	9141	AA	GG	GG	INTERGENIC		
SNP_91555_A_42806	NW_004516484.1	scaffold1221	42806	GG	CC	CC	INTERGENIC		
SNP_91557_A_77238	NW_004516484.1	scaffold1221	77238	AA	GG	GG	INTERGENIC		
SNP_91558_A_13747	NW_004516485.1	scaffold1222	13747	TT	AA	AA	INTERGENIC		
SNP_91559_A_13750	NW_004516485.1	scaffold1222	13750	TT	AA	AA	INTERGENIC		
SNP_91560_A_13831	NW_004516485.1	scaffold1222	13831	AA	GG	GG	INTERGENIC		
SNP_91561_A_13837	NW_004516485.1	scaffold1222	13837	CC	TT	TT	INTERGENIC		
SNP_91563_A_13909	NW_004516485.1	scaffold1222	13909	AA	GG	GG	INTERGENIC		
SNP_91564_A_13915	NW_004516485.1	scaffold1222	13915	TT	AA	AA	INTERGENIC		
SNP_91565_A_13952	NW_004516485.1	scaffold1222	13952	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91566_A_14510	NW_004516485.1	scaffold1222	14510	CC	GG	GG	INTERGENIC			
SNP_91567_A_14520	NW_004516485.1	scaffold1222	14520	AA	GG	GG	INTERGENIC			
SNP_91568_A_14529	NW_004516485.1	scaffold1222	14529	TT	AA	AA	INTERGENIC			
SNP_91569_A_14606	NW_004516485.1	scaffold1222	14606	AA	CC	CC	INTERGENIC			
SNP_91570_A_14615	NW_004516485.1	scaffold1222	14615	CC	AA	AA	INTERGENIC			
SNP_91571_A_14689	NW_004516485.1	scaffold1222	14689	CC	TT	TT	INTERGENIC			
SNP_91572_A_14713	NW_004516485.1	scaffold1222	14713	AA	GG	GG	INTERGENIC			
SNP_91573_A_14755	NW_004516485.1	scaffold1222	14755	GG	CC	CC	INTERGENIC			
SNP_91574_A_14806	NW_004516485.1	scaffold1222	14806	TT	AA	AA	INTERGENIC			
SNP_91575_A_14826	NW_004516485.1	scaffold1222	14826	CC	TT	TT	INTERGENIC			
SNP_91576_A_14856	NW_004516485.1	scaffold1222	14856	TT	AA	AA	INTERGENIC			
SNP_91577_A_14858	NW_004516485.1	scaffold1222	14858	TT	AA	AA	INTERGENIC			
SNP_91578_A_14863	NW_004516485.1	scaffold1222	14863	TT	GG	GG	INTERGENIC			
SNP_91579_A_4016	NW_004516486.1	scaffold1224	4016	TT	GG	GG	INTERGENIC			
SNP_91580_A_4021	NW_004516486.1	scaffold1224	4021	TT	AA	AA	INTERGENIC			
SNP_91581_A_4136	NW_004516486.1	scaffold1224	4136	TT	CC	CC	INTERGENIC			
SNP_91582_A_4138	NW_004516486.1	scaffold1224	4138	GG	AA	AA	INTERGENIC			
SNP_91583_A_4140	NW_004516486.1	scaffold1224	4140	GG	CC	CC	INTERGENIC			
SNP_91584_A_4175	NW_004516486.1	scaffold1224	4175	CC	TT	TT	INTERGENIC			
SNP_91585_A_4187	NW_004516486.1	scaffold1224	4187	CC	TT	TT	INTERGENIC			
SNP_91586_A_4335	NW_004516486.1	scaffold1224	4335	TT	CC	CC	INTERGENIC			
SNP_91587_A_4445	NW_004516486.1	scaffold1224	4445	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91588_A_5083	NW_004516486.1	scaffold1224	5083	AA	GG	GG	INTERGENIC			
SNP_91589_A_2839	NW_004516489.1	scaffold1231	2839	CC	AA	AA	INTERGENIC			
SNP_91590_A_6816	NW_004516489.1	scaffold1231	6816	CC	GG	GG	INTERGENIC			
SNP_91591_A_7231	NW_004516489.1	scaffold1231	7231	GG	TT	TT	INTERGENIC			
SNP_91592_A_22849	NW_004516489.1	scaffold1231	22849	GG	AA	AA	INTERGENIC			
SNP_91593_A_25734	NW_004516489.1	scaffold1231	25734	CC	TT	TT	INTERGENIC			
SNP_91594_A_25909	NW_004516489.1	scaffold1231	25909	TT	AA	AA	INTERGENIC			
SNP_91595_A_43430	NW_004516489.1	scaffold1231	43430	CC	AA	AA	INTERGENIC			
SNP_91596_A_54952	NW_004516489.1	scaffold1231	54952	TT	CC	CC	INTERGENIC			
SNP_91597_A_74727	NW_004516489.1	scaffold1231	74727	GG	AA	AA	INTERGENIC			
SNP_91598_A_74732	NW_004516489.1	scaffold1231	74732	AA	CC	CC	INTERGENIC			
SNP_91599_A_87001	NW_004516489.1	scaffold1231	87001	CC	GG	GG	INTERGENIC			
SNP_91600_A_87395	NW_004516489.1	scaffold1231	87395	GG	TT	TT	INTERGENIC			
SNP_91601_A_113338	NW_004516489.1	scaffold1231	113338	GG	AA	AA	INTERGENIC			
SNP_91602_A_122486	NW_004516489.1	scaffold1231	122486	AA	TT	TT	INTERGENIC			
SNP_91603_A_124261	NW_004516489.1	scaffold1231	124261	CC	TT	TT	INTERGENIC			
SNP_91604_A_143103	NW_004516489.1	scaffold1231	143103	CC	TT	TT	INTERGENIC			
SNP_91605_A_143114	NW_004516489.1	scaffold1231	143114	GG	AA	AA	INTERGENIC			
SNP_91606_A_143118	NW_004516489.1	scaffold1231	143118	CC	TT	TT	INTERGENIC			
SNP_91607_A_143142	NW_004516489.1	scaffold1231	143142	TT	CC	CC	INTERGENIC			
SNP_91608_A_185155	NW_004516489.1	scaffold1231	185155	AA	CC	CC	INTERGENIC			
SNP_91609_A_185758	NW_004516489.1	scaffold1231	185758	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91610_A_186606	NW_004516489.1	scaffold1231	186606	GG	AA	AA	INTERGENIC			
SNP_91611_A_186898	NW_004516489.1	scaffold1231	186898	GG	AA	AA	INTERGENIC			
SNP_91612_A_187139	NW_004516489.1	scaffold1231	187139	CC	TT	TT	INTERGENIC			
SNP_91613_A_187189	NW_004516489.1	scaffold1231	187189	TT	CC	CC	INTERGENIC			
SNP_91614_A_187397	NW_004516489.1	scaffold1231	187397	GG	AA	AA	INTERGENIC			
SNP_91615_A_469	NW_004516492.1	scaffold1235	469	TT	AA	AA	INTERGENIC			
SNP_91616_A_544	NW_004516492.1	scaffold1235	544	AA	CC	CC	INTERGENIC			
SNP_91617_A_881	NW_004516492.1	scaffold1235	881	CC	TT	TT	INTERGENIC			
SNP_91618_A_940	NW_004516492.1	scaffold1235	940	GG	AA	AA	INTERGENIC			
SNP_91619_A_1450	NW_004516495.1	scaffold1238	1450	CC	TT	TT	INTERGENIC			
SNP_91620_A_1640	NW_004516495.1	scaffold1238	1640	AA	TT	TT	INTERGENIC			
SNP_91621_A_1928	NW_004516495.1	scaffold1238	1928	TT	CC	CC	INTERGENIC			
SNP_91622_A_31178	NW_004516495.1	scaffold1238	31178	AA	TT	TT	INTERGENIC			
SNP_91623_A_34880	NW_004516495.1	scaffold1238	34880	CC	TT	TT	INTERGENIC			
SNP_91624_A_65650	NW_004516495.1	scaffold1238	65650	AA	GG	GG	INTERGENIC			
SNP_91625_A_103805	NW_004516495.1	scaffold1238	103805	CC	TT	TT	INTERGENIC			
SNP_91626_A_103927	NW_004516495.1	scaffold1238	103927	CC	TT	TT	INTERGENIC			
SNP_91627_A_104024	NW_004516495.1	scaffold1238	104024	AA	CC	CC	INTERGENIC			
SNP_91628_A_104149	NW_004516495.1	scaffold1238	104149	TT	GG	GG	INTERGENIC			
SNP_91629_A_104167	NW_004516495.1	scaffold1238	104167	AA	GG	GG	INTERGENIC			
SNP_91630_A_104205	NW_004516495.1	scaffold1238	104205	TT	CC	CC	INTERGENIC			
SNP_91631_A_104222	NW_004516495.1	scaffold1238	104222	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91632_A_104226	NW_004516495.1	scaffold1238	104226	GG	AA	AA	INTERGENIC			
SNP_91633_A_104364	NW_004516495.1	scaffold1238	104364	TT	GG	GG	INTERGENIC			
SNP_91634_A_104365	NW_004516495.1	scaffold1238	104365	GG	TT	TT	INTERGENIC			
SNP_91635_A_104391	NW_004516495.1	scaffold1238	104391	GG	TT	TT	INTERGENIC			
SNP_91637_A_109869	NW_004516495.1	scaffold1238	109869	CC	GG	GG	INTERGENIC			
SNP_91638_A_110526	NW_004516495.1	scaffold1238	110526	CC	TT	TT	INTERGENIC			
SNP_91639_A_110725	NW_004516495.1	scaffold1238	110725	GG	AA	AA	INTERGENIC			
SNP_91640_A_110727	NW_004516495.1	scaffold1238	110727	AA	CC	CC	INTERGENIC			
SNP_91641_A_110740	NW_004516495.1	scaffold1238	110740	AA	GG	GG	INTERGENIC			
SNP_91642_A_110747	NW_004516495.1	scaffold1238	110747	AA	CC	CC	INTERGENIC			
SNP_91643_A_110759	NW_004516495.1	scaffold1238	110759	TT	GG	GG	INTERGENIC			
SNP_91644_A_110791	NW_004516495.1	scaffold1238	110791	GG	AA	AA	INTERGENIC			
SNP_91645_A_110830	NW_004516495.1	scaffold1238	110830	AA	TT	TT	INTERGENIC			
SNP_91647_A_110842	NW_004516495.1	scaffold1238	110842	GG	AA	AA	INTERGENIC			
SNP_91648_A_110843	NW_004516495.1	scaffold1238	110843	GG	AA	AA	INTERGENIC			
SNP_91649_A_110918	NW_004516495.1	scaffold1238	110918	AA	TT	TT	INTERGENIC			
SNP_91651_A_136281	NW_004516495.1	scaffold1238	136281	TT	AA	AA	URR	101488619	uncharacterized LOC101488619	
SNP_91652_A_147017	NW_004516495.1	scaffold1238	147017	AA	GG	GG	INTERGENIC			
SNP_91654_A_2437	NW_004516496.1	scaffold1239	2437	CC	GG	GG	INTERGENIC			
SNP_91655_A_3931	NW_004516496.1	scaffold1239	3931	AA	GG	GG	INTERGENIC			
SNP_91656_A_4076	NW_004516496.1	scaffold1239	4076	TT	CC	CC	INTERGENIC			
SNP_91659_A_5719	NW_004516496.1	scaffold1239	5719	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91660_A_62818	NW_004516497.1	scaffold1240	62818	CC	TT	TT	INTERGENIC		
SNP_91661_A_62859	NW_004516497.1	scaffold1240	62859	CC	AA	AA	INTERGENIC		
SNP_91662_A_62912	NW_004516497.1	scaffold1240	62912	CC	TT	TT	INTERGENIC		
SNP_91663_A_63268	NW_004516497.1	scaffold1240	63268	AA	CC	CC	INTERGENIC		
SNP_91664_A_68951	NW_004516497.1	scaffold1240	68951	TT	AA	AA	INTERGENIC		
SNP_91667_A_105518	NW_004516497.1	scaffold1240	105518	AA	GG	GG	INTERGENIC		
SNP_91669_A_121494	NW_004516497.1	scaffold1240	121494	GG	CC	CC	INTRON	101489613	serine-threonine kinase receptor-associated protein-like
SNP_91671_A_2695	NW_004516498.1	scaffold1242	2695	GG	AA	AA	INTERGENIC		
SNP_91672_A_14700	NW_004516498.1	scaffold1242	14700	AA	GG	GG	INTERGENIC		
SNP_91673_A_15112	NW_004516498.1	scaffold1242	15112	AA	CC	CC	INTERGENIC		
SNP_91674_A_17022	NW_004516498.1	scaffold1242	17022	TT	CC	CC	INTERGENIC		
SNP_91675_A_17030	NW_004516498.1	scaffold1242	17030	TT	CC	CC	INTERGENIC		
SNP_91676_A_26632	NW_004516498.1	scaffold1242	26632	TT	AA	AA	INTERGENIC		
SNP_91677_A_26635	NW_004516498.1	scaffold1242	26635	TT	GG	GG	INTERGENIC		
SNP_91678_A_26658	NW_004516498.1	scaffold1242	26658	CC	TT	TT	INTERGENIC		
SNP_91679_A_27586	NW_004516498.1	scaffold1242	27586	GG	AA	AA	INTERGENIC		
SNP_91680_A_40393	NW_004516498.1	scaffold1242	40393	AA	GG	GG	INTERGENIC		
SNP_91681_A_40428	NW_004516498.1	scaffold1242	40428	AA	CC	CC	INTERGENIC		
SNP_91682_A_47633	NW_004516498.1	scaffold1242	47633	AA	GG	GG	INTERGENIC		
SNP_91683_A_47768	NW_004516498.1	scaffold1242	47768	AA	TT	TT	INTERGENIC		
SNP_91684_A_48030	NW_004516498.1	scaffold1242	48030	TT	GG	GG	INTERGENIC		
SNP_91685_A_53727	NW_004516498.1	scaffold1242	53727	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91686_A_53728	NW_004516498.1	scaffold1242	53728	CC	GG	GG	INTERGENIC			
SNP_91687_A_55644	NW_004516498.1	scaffold1242	55644	GG	TT	TT	INTERGENIC			
SNP_91688_A_62277	NW_004516498.1	scaffold1242	62277	AA	GG	GG	INTERGENIC			
SNP_91689_A_775	NW_004516499.1	scaffold1243	775	TT	GG	GG	INTERGENIC			
SNP_91690_A_994	NW_004516499.1	scaffold1243	994	GG	TT	TT	INTERGENIC			
SNP_91691_A_1104	NW_004516499.1	scaffold1243	1104	AA	GG	GG	INTERGENIC			
SNP_91692_A_1165	NW_004516499.1	scaffold1243	1165	TT	GG	GG	INTERGENIC			
SNP_91693_A_1272	NW_004516499.1	scaffold1243	1272	AA	TT	TT	INTERGENIC			
SNP_91694_A_1335	NW_004516499.1	scaffold1243	1335	TT	GG	GG	INTERGENIC			
SNP_91695_A_1534	NW_004516499.1	scaffold1243	1534	GG	AA	AA	INTERGENIC			
SNP_91696_A_1818	NW_004516499.1	scaffold1243	1818	AA	TT	TT	INTERGENIC			
SNP_91697_A_2211	NW_004516499.1	scaffold1243	2211	AA	CC	CC	INTERGENIC			
SNP_91698_A_2256	NW_004516499.1	scaffold1243	2256	CC	GG	GG	INTERGENIC			
SNP_91699_A_2105	NW_004516500.1	scaffold1244	2105	TT	AA	AA	INTERGENIC			
SNP_91700_A_2175	NW_004516500.1	scaffold1244	2175	TT	AA	AA	INTERGENIC			
SNP_91701_A_2183	NW_004516500.1	scaffold1244	2183	AA	TT	TT	INTERGENIC			
SNP_91702_A_2192	NW_004516500.1	scaffold1244	2192	CC	AA	AA	INTERGENIC			
SNP_91703_A_2305	NW_004516500.1	scaffold1244	2305	TT	AA	AA	INTERGENIC			
SNP_91704_A_2371	NW_004516500.1	scaffold1244	2371	CC	AA	AA	INTERGENIC			
SNP_91705_A_2634	NW_004516500.1	scaffold1244	2634	TT	AA	AA	INTERGENIC			
SNP_91706_A_3086	NW_004516500.1	scaffold1244	3086	AA	GG	GG	INTERGENIC			
SNP_91708_A_3460	NW_004516500.1	scaffold1244	3460	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91709_A_4886	NW_004516500.1	scaffold1244	4886	TT	AA	AA	INTERGENIC			
SNP_91710_A_5836	NW_004516500.1	scaffold1244	5836	TT	CC	CC	INTERGENIC			
SNP_91711_A_5845	NW_004516500.1	scaffold1244	5845	GG	CC	CC	INTERGENIC			
SNP_91712_A_6059	NW_004516500.1	scaffold1244	6059	TT	GG	GG	INTERGENIC			
SNP_91713_A_7826	NW_004516500.1	scaffold1244	7826	AA	TT	TT	INTERGENIC			
SNP_91714_A_7840	NW_004516500.1	scaffold1244	7840	AA	GG	GG	INTERGENIC			
SNP_91715_A_7841	NW_004516500.1	scaffold1244	7841	GG	AA	AA	INTERGENIC			
SNP_91716_A_7843	NW_004516500.1	scaffold1244	7843	AA	GG	GG	INTERGENIC			
SNP_91717_A_7850	NW_004516500.1	scaffold1244	7850	AA	TT	TT	INTERGENIC			
SNP_91718_A_7856	NW_004516500.1	scaffold1244	7856	CC	TT	TT	INTERGENIC			
SNP_91719_A_7859	NW_004516500.1	scaffold1244	7859	CC	TT	TT	INTERGENIC			
SNP_91720_A_7866	NW_004516500.1	scaffold1244	7866	GG	AA	AA	INTERGENIC			
SNP_91722_A_7984	NW_004516500.1	scaffold1244	7984	CC	TT	TT	INTERGENIC			
SNP_91723_A_7985	NW_004516500.1	scaffold1244	7985	AA	GG	GG	INTERGENIC			
SNP_91724_A_7993	NW_004516500.1	scaffold1244	7993	AA	GG	GG	INTERGENIC			
SNP_91725_A_7994	NW_004516500.1	scaffold1244	7994	AA	GG	GG	INTERGENIC			
SNP_91726_A_8000	NW_004516500.1	scaffold1244	8000	AA	GG	GG	INTERGENIC			
SNP_91727_A_8168	NW_004516500.1	scaffold1244	8168	GG	AA	AA	INTERGENIC			
SNP_91728_A_8246	NW_004516500.1	scaffold1244	8246	TT	CC	CC	INTERGENIC			
SNP_91729_A_10111	NW_004516500.1	scaffold1244	10111	GG	AA	AA	INTERGENIC			
SNP_91730_A_14079	NW_004516500.1	scaffold1244	14079	TT	CC	CC	INTERGENIC			
SNP_91731_A_17129	NW_004516500.1	scaffold1244	17129	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91732_A_17143	NW_004516500.1	scaffold1244	17143	GG	AA	AA	INTERGENIC			
SNP_91733_A_20590	NW_004516500.1	scaffold1244	20590	CC	AA	AA	INTERGENIC			
SNP_91734_A_4951	NW_004516503.1	scaffold1247	4951	AA	GG	GG	INTERGENIC			
SNP_91735_A_5014	NW_004516503.1	scaffold1247	5014	CC	GG	GG	INTERGENIC			
SNP_91736_A_5021	NW_004516503.1	scaffold1247	5021	TT	CC	CC	INTERGENIC			
SNP_91737_A_7761	NW_004516503.1	scaffold1247	7761	CC	AA	AA	INTERGENIC			
SNP_91738_A_7833	NW_004516503.1	scaffold1247	7833	GG	AA	AA	INTERGENIC			
SNP_91739_A_7838	NW_004516503.1	scaffold1247	7838	GG	AA	AA	INTERGENIC			
SNP_91740_A_13306	NW_004516503.1	scaffold1247	13306	GG	CC	CC	INTERGENIC			
SNP_91741_A_13318	NW_004516503.1	scaffold1247	13318	TT	CC	CC	INTERGENIC			
SNP_91742_A_13372	NW_004516503.1	scaffold1247	13372	GG	AA	AA	INTERGENIC			
SNP_91743_A_13560	NW_004516503.1	scaffold1247	13560	CC	AA	AA	INTERGENIC			
SNP_91744_A_13598	NW_004516503.1	scaffold1247	13598	CC	TT	TT	INTERGENIC			
SNP_91745_A_13951	NW_004516503.1	scaffold1247	13951	AA	TT	TT	INTERGENIC			
SNP_91746_A_30038	NW_004516503.1	scaffold1247	30038	AA	TT	TT	INTERGENIC			
SNP_91747_A_30633	NW_004516503.1	scaffold1247	30633	AA	GG	GG	INTERGENIC			
SNP_91748_A_30634	NW_004516503.1	scaffold1247	30634	AA	TT	TT	INTERGENIC			
SNP_91749_A_32156	NW_004516503.1	scaffold1247	32156	AA	GG	GG	INTERGENIC			
SNP_91750_A_38188	NW_004516503.1	scaffold1247	38188	TT	AA	AA	INTERGENIC			
SNP_91751_A_38258	NW_004516503.1	scaffold1247	38258	TT	CC	CC	INTERGENIC			
SNP_91752_A_38413	NW_004516503.1	scaffold1247	38413	AA	GG	GG	INTERGENIC			
SNP_91753_A_38748	NW_004516503.1	scaffold1247	38748	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91754_A_38764	NW_004516503.1	scaffold1247	38764	AA	CC	CC	INTERGENIC			
SNP_91755_A_498	NW_004516504.1	scaffold1248	498	CC	AA	AA	INTERGENIC			
SNP_91756_A_574	NW_004516504.1	scaffold1248	574	GG	TT	TT	INTERGENIC			
SNP_91757_A_589	NW_004516504.1	scaffold1248	589	AA	CC	CC	INTERGENIC			
SNP_91758_A_590	NW_004516504.1	scaffold1248	590	TT	AA	AA	INTERGENIC			
SNP_91759_A_1064	NW_004516507.1	scaffold1252	1064	TT	GG	GG	INTERGENIC			
SNP_91760_A_28038	NW_004516507.1	scaffold1252	28038	TT	CC	CC	INTERGENIC			
SNP_91761_A_28574	NW_004516507.1	scaffold1252	28574	TT	GG	GG	INTERGENIC			
SNP_91762_A_28575	NW_004516507.1	scaffold1252	28575	GG	TT	TT	INTERGENIC			
SNP_91763_A_28936	NW_004516507.1	scaffold1252	28936	AA	GG	GG	INTERGENIC			
SNP_91764_A_43292	NW_004516507.1	scaffold1252	43292	TT	AA	AA	INTERGENIC			
SNP_91765_A_43921	NW_004516507.1	scaffold1252	43921	TT	GG	GG	INTERGENIC			
SNP_91766_A_44095	NW_004516507.1	scaffold1252	44095	AA	CC	CC	INTERGENIC			
SNP_91767_A_44238	NW_004516507.1	scaffold1252	44238	TT	GG	GG	INTERGENIC			
SNP_91768_A_44317	NW_004516507.1	scaffold1252	44317	AA	TT	TT	INTERGENIC			
SNP_91769_A_55273	NW_004516507.1	scaffold1252	55273	CC	TT	TT	INTERGENIC			
SNP_91770_A_55572	NW_004516507.1	scaffold1252	55572	TT	CC	CC	INTERGENIC			
SNP_91772_A_55709	NW_004516507.1	scaffold1252	55709	CC	TT	TT	INTERGENIC			
SNP_91773_A_55717	NW_004516507.1	scaffold1252	55717	CC	TT	TT	INTERGENIC			
SNP_91774_A_55922	NW_004516507.1	scaffold1252	55922	AA	GG	GG	INTERGENIC			
SNP_91775_A_56095	NW_004516507.1	scaffold1252	56095	GG	AA	AA	INTERGENIC			
SNP_91776_A_56243	NW_004516507.1	scaffold1252	56243	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91777_A_60627	NW_004516507.1	scaffold1252	60627	GG	AA	AA	INTERGENIC			
SNP_91778_A_62956	NW_004516507.1	scaffold1252	62956	CC	TT	TT	INTERGENIC			
SNP_91779_A_62957	NW_004516507.1	scaffold1252	62957	GG	AA	AA	INTERGENIC			
SNP_91780_A_62973	NW_004516507.1	scaffold1252	62973	AA	GG	GG	INTERGENIC			
SNP_91781_A_63616	NW_004516507.1	scaffold1252	63616	CC	TT	TT	INTERGENIC			
SNP_91782_A_63693	NW_004516507.1	scaffold1252	63693	TT	CC	CC	INTERGENIC			
SNP_91783_A_69996	NW_004516507.1	scaffold1252	69996	CC	GG	GG	INTERGENIC			
SNP_91784_A_71418	NW_004516507.1	scaffold1252	71418	CC	TT	TT	INTERGENIC			
SNP_91785_A_71458	NW_004516507.1	scaffold1252	71458	GG	AA	AA	INTERGENIC			
SNP_91786_A_76642	NW_004516507.1	scaffold1252	76642	AA	GG	GG	INTERGENIC			
SNP_91787_A_88650	NW_004516507.1	scaffold1252	88650	AA	GG	GG	INTERGENIC			
SNP_91788_A_95468	NW_004516507.1	scaffold1252	95468	GG	TT	TT	INTERGENIC			
SNP_91789_A_95675	NW_004516507.1	scaffold1252	95675	AA	TT	TT	INTERGENIC			
SNP_91790_A_96822	NW_004516507.1	scaffold1252	96822	CC	TT	TT	INTERGENIC			
SNP_91791_A_97953	NW_004516507.1	scaffold1252	97953	TT	CC	CC	INTERGENIC			
SNP_91792_A_97967	NW_004516507.1	scaffold1252	97967	CC	TT	TT	INTERGENIC			
SNP_91793_A_97969	NW_004516507.1	scaffold1252	97969	GG	AA	AA	INTERGENIC			
SNP_91795_A_98000	NW_004516507.1	scaffold1252	98000	AA	TT	TT	INTERGENIC			
SNP_91797_A_98146	NW_004516507.1	scaffold1252	98146	CC	AA	AA	INTERGENIC			
SNP_91798_A_98150	NW_004516507.1	scaffold1252	98150	TT	AA	AA	INTERGENIC			
SNP_91799_A_98443	NW_004516507.1	scaffold1252	98443	TT	CC	CC	INTERGENIC			
SNP_91800_A_99152	NW_004516507.1	scaffold1252	99152	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91801_A_101543	NW_004516507.1	scaffold1252	101543	TT	CC	CC	INTERGENIC			
SNP_91802_A_105377	NW_004516507.1	scaffold1252	105377	GG	CC	CC	INTERGENIC			
SNP_91803_A_109003	NW_004516507.1	scaffold1252	109003	AA	CC	CC	INTERGENIC			
SNP_91804_A_110715	NW_004516507.1	scaffold1252	110715	TT	GG	GG	INTERGENIC			
SNP_91806_A_114740	NW_004516507.1	scaffold1252	114740	AA	GG	GG	INTERGENIC			
SNP_91807_A_1712	NW_004516510.1	scaffold1255	1712	TT	CC	CC	INTERGENIC			
SNP_91808_A_1718	NW_004516510.1	scaffold1255	1718	CC	TT	TT	INTERGENIC			
SNP_91809_A_1923	NW_004516510.1	scaffold1255	1923	TT	AA	AA	INTERGENIC			
SNP_91810_A_1967	NW_004516510.1	scaffold1255	1967	TT	CC	CC	INTERGENIC			
SNP_91811_A_2121	NW_004516510.1	scaffold1255	2121	AA	GG	GG	INTERGENIC			
SNP_91812_A_2155	NW_004516510.1	scaffold1255	2155	CC	GG	GG	INTERGENIC			
SNP_91813_A_2210	NW_004516510.1	scaffold1255	2210	AA	GG	GG	INTERGENIC			
SNP_91814_A_2241	NW_004516510.1	scaffold1255	2241	AA	CC	CC	INTERGENIC			
SNP_91815_A_3448	NW_004516510.1	scaffold1255	3448	TT	AA	AA	INTERGENIC			
SNP_91816_A_3698	NW_004516510.1	scaffold1255	3698	GG	AA	AA	INTERGENIC			
SNP_91817_A_8581	NW_004516510.1	scaffold1255	8581	TT	CC	CC	INTERGENIC			
SNP_91818_A_8701	NW_004516510.1	scaffold1255	8701	TT	CC	CC	INTERGENIC			
SNP_91819_A_14836	NW_004516510.1	scaffold1255	14836	AA	GG	GG	INTERGENIC			
SNP_91820_A_14840	NW_004516510.1	scaffold1255	14840	AA	GG	GG	INTERGENIC			
SNP_91821_A_14968	NW_004516510.1	scaffold1255	14968	CC	GG	GG	INTERGENIC			
SNP_91822_A_14982	NW_004516510.1	scaffold1255	14982	GG	TT	TT	INTERGENIC			
SNP_91823_A_17313	NW_004516510.1	scaffold1255	17313	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91824_A_17317	NW_004516510.1	scaffold1255	17317	AA	CC	CC	INTERGENIC			
SNP_91825_A_17461	NW_004516510.1	scaffold1255	17461	CC	TT	TT	INTERGENIC			
SNP_91826_A_17583	NW_004516510.1	scaffold1255	17583	TT	AA	AA	INTERGENIC			
SNP_91827_A_17623	NW_004516510.1	scaffold1255	17623	AA	GG	GG	INTERGENIC			
SNP_91828_A_17653	NW_004516510.1	scaffold1255	17653	GG	AA	AA	INTERGENIC			
SNP_91829_A_477	NW_004516511.1	scaffold1256	477	GG	TT	TT	INTERGENIC			
SNP_91830_A_535	NW_004516511.1	scaffold1256	535	CC	AA	AA	INTERGENIC			
SNP_91832_A_924	NW_004516511.1	scaffold1256	924	TT	AA	AA	INTERGENIC			
SNP_91833_A_4126	NW_004516511.1	scaffold1256	4126	TT	CC	CC	INTERGENIC			
SNP_91834_A_8296	NW_004516511.1	scaffold1256	8296	AA	TT	TT	INTERGENIC			
SNP_91835_A_8321	NW_004516511.1	scaffold1256	8321	AA	CC	CC	INTERGENIC			
SNP_91836_A_18192	NW_004516511.1	scaffold1256	18192	CC	GG	GG	INTERGENIC			
SNP_91837_A_20211	NW_004516511.1	scaffold1256	20211	GG	AA	AA	INTERGENIC			
SNP_91838_A_20338	NW_004516511.1	scaffold1256	20338	CC	TT	TT	INTERGENIC			
SNP_91839_A_23588	NW_004516511.1	scaffold1256	23588	TT	CC	CC	INTERGENIC			
SNP_91840_A_25081	NW_004516511.1	scaffold1256	25081	CC	TT	TT	INTERGENIC			
SNP_91841_A_25160	NW_004516511.1	scaffold1256	25160	CC	AA	AA	INTERGENIC			
SNP_91842_A_25166	NW_004516511.1	scaffold1256	25166	GG	TT	TT	INTERGENIC			
SNP_91843_A_25214	NW_004516511.1	scaffold1256	25214	CC	TT	TT	INTERGENIC			
SNP_91844_A_25321	NW_004516511.1	scaffold1256	25321	TT	GG	GG	INTERGENIC			
SNP_91845_A_30305	NW_004516511.1	scaffold1256	30305	GG	AA	AA	INTERGENIC			
SNP_91846_A_30312	NW_004516511.1	scaffold1256	30312	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91847_A_32512	NW_004516511.1	scaffold1256	32512	AA	CC	CC	INTERGENIC			
SNP_91848_A_32959	NW_004516511.1	scaffold1256	32959	TT	CC	CC	INTERGENIC			
SNP_91849_A_45121	NW_004516511.1	scaffold1256	45121	AA	CC	CC	INTERGENIC			
SNP_91851_A_54784	NW_004516511.1	scaffold1256	54784	GG	AA	AA	INTERGENIC			
SNP_91852_A_56197	NW_004516511.1	scaffold1256	56197	CC	TT	TT	INTERGENIC			
SNP_91853_A_60494	NW_004516511.1	scaffold1256	60494	TT	CC	CC	INTERGENIC			
SNP_91854_A_60522	NW_004516511.1	scaffold1256	60522	AA	TT	TT	INTERGENIC			
SNP_91855_A_62589	NW_004516511.1	scaffold1256	62589	GG	AA	AA	INTERGENIC			
SNP_91856_A_62595	NW_004516511.1	scaffold1256	62595	TT	CC	CC	INTERGENIC			
SNP_91857_A_62628	NW_004516511.1	scaffold1256	62628	GG	AA	AA	INTERGENIC			
SNP_91858_A_65877	NW_004516511.1	scaffold1256	65877	AA	CC	CC	INTERGENIC			
SNP_91859_A_69281	NW_004516511.1	scaffold1256	69281	AA	TT	TT	INTERGENIC			
SNP_91860_A_69282	NW_004516511.1	scaffold1256	69282	CC	AA	AA	INTERGENIC			
SNP_91861_A_69348	NW_004516511.1	scaffold1256	69348	TT	AA	AA	INTERGENIC			
SNP_91862_A_69586	NW_004516511.1	scaffold1256	69586	AA	TT	TT	INTERGENIC			
SNP_91863_A_69596	NW_004516511.1	scaffold1256	69596	CC	GG	GG	INTERGENIC			
SNP_91864_A_16114	NW_004516513.1	scaffold1259	16114	TT	GG	GG	INTERGENIC			
SNP_91866_A_3125	NW_004516515.1	scaffold1261	3125	GG	AA	AA	INTERGENIC			
SNP_91867_A_3126	NW_004516515.1	scaffold1261	3126	AA	TT	TT	INTERGENIC			
SNP_91868_A_3303	NW_004516518.1	scaffold1269	3303	AA	TT	TT	INTERGENIC			
SNP_91869_A_106	NW_004516520.1	scaffold1272	106	TT	CC	CC	INTERGENIC			
SNP_91870_A_21384	NW_004516520.1	scaffold1272	21384	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91871_A_21394	NW_004516520.1	scaffold1272	21394	TT	AA	AA	INTERGENIC		
SNP_91872_A_21445	NW_004516520.1	scaffold1272	21445	AA	TT	TT	INTERGENIC		
SNP_91874_A_21840	NW_004516520.1	scaffold1272	21840	AA	GG	GG	INTERGENIC		
SNP_91875_A_45685	NW_004516520.1	scaffold1272	45685	AA	TT	TT	INTRON	101492749	alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1-like
SNP_91876_A_77906	NW_004516520.1	scaffold1272	77906	CC	GG	GG	URR	101492749	alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1-like
SNP_91877_A_81247	NW_004516520.1	scaffold1272	81247	TT	AA	AA	INTERGENIC		
SNP_91878_A_87120	NW_004516520.1	scaffold1272	87120	GG	AA	AA	INTERGENIC		
SNP_91879_A_87145	NW_004516520.1	scaffold1272	87145	TT	CC	CC	INTERGENIC		
SNP_91880_A_87195	NW_004516520.1	scaffold1272	87195	TT	CC	CC	INTERGENIC		
SNP_91881_A_87196	NW_004516520.1	scaffold1272	87196	GG	CC	CC	INTERGENIC		
SNP_91882_A_87197	NW_004516520.1	scaffold1272	87197	AA	GG	GG	INTERGENIC		
SNP_91883_A_87240	NW_004516520.1	scaffold1272	87240	AA	GG	GG	INTERGENIC		
SNP_91884_A_87249	NW_004516520.1	scaffold1272	87249	TT	CC	CC	INTERGENIC		
SNP_91885_A_87265	NW_004516520.1	scaffold1272	87265	GG	AA	AA	INTERGENIC		
SNP_91886_A_87579	NW_004516520.1	scaffold1272	87579	CC	TT	TT	INTERGENIC		
SNP_91887_A_87580	NW_004516520.1	scaffold1272	87580	AA	GG	GG	INTERGENIC		
SNP_91888_A_87588	NW_004516520.1	scaffold1272	87588	GG	AA	AA	INTERGENIC		
SNP_91889_A_87589	NW_004516520.1	scaffold1272	87589	TT	AA	AA	INTERGENIC		
SNP_91890_A_87610	NW_004516520.1	scaffold1272	87610	AA	GG	GG	INTERGENIC		
SNP_91891_A_87618	NW_004516520.1	scaffold1272	87618	AA	GG	GG	INTERGENIC		
SNP_91892_A_87669	NW_004516520.1	scaffold1272	87669	AA	GG	GG	INTERGENIC		
SNP_91894_A_132559	NW_004516520.1	scaffold1272	132559	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91895_A_132582	NW_004516520.1	scaffold1272	132582	CC	TT	TT	INTERGENIC		
SNP_91896_A_132624	NW_004516520.1	scaffold1272	132624	CC	TT	TT	INTERGENIC		
SNP_91897_A_132630	NW_004516520.1	scaffold1272	132630	CC	AA	AA	INTERGENIC		
SNP_91898_A_132636	NW_004516520.1	scaffold1272	132636	TT	CC	CC	INTERGENIC		
SNP_91899_A_132645	NW_004516520.1	scaffold1272	132645	GG	AA	AA	INTERGENIC		
SNP_91900_A_132652	NW_004516520.1	scaffold1272	132652	TT	CC	CC	INTERGENIC		
SNP_91901_A_132660	NW_004516520.1	scaffold1272	132660	AA	GG	GG	INTERGENIC		
SNP_91902_A_132675	NW_004516520.1	scaffold1272	132675	AA	GG	GG	INTERGENIC		
SNP_91903_A_132678	NW_004516520.1	scaffold1272	132678	AA	GG	GG	INTERGENIC		
SNP_91904_A_132717	NW_004516520.1	scaffold1272	132717	AA	GG	GG	INTERGENIC		
SNP_91905_A_132816	NW_004516520.1	scaffold1272	132816	TT	CC	CC	INTERGENIC		
SNP_91906_A_133753	NW_004516520.1	scaffold1272	133753	AA	GG	GG	INTERGENIC		
SNP_91907_A_133759	NW_004516520.1	scaffold1272	133759	GG	AA	AA	INTERGENIC		
SNP_91908_A_133765	NW_004516520.1	scaffold1272	133765	GG	CC	CC	INTERGENIC		
SNP_91909_A_147471	NW_004516520.1	scaffold1272	147471	CC	GG	GG	INTERGENIC		
SNP_91910_A_147823	NW_004516520.1	scaffold1272	147823	TT	CC	CC	INTERGENIC		
SNP_91911_A_147855	NW_004516520.1	scaffold1272	147855	TT	GG	GG	INTERGENIC		
SNP_91912_A_148152	NW_004516520.1	scaffold1272	148152	CC	TT	TT	DRR	101494675	Unknown function
SNP_91913_A_148261	NW_004516520.1	scaffold1272	148261	TT	GG	GG	DRR	101494675	Unknown function
SNP_91914_A_164842	NW_004516520.1	scaffold1272	164842	CC	AA	AA	INTRON	101495319	uncharacterized LOC101495319
SNP_91915_A_169242	NW_004516520.1	scaffold1272	169242	CC	TT	TT	INTRON	101495319	uncharacterized LOC101495319
SNP_91916_A_169243	NW_004516520.1	scaffold1272	169243	GG	AA	AA	INTRON	101495319	uncharacterized LOC101495319

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91917_A_183810	NW_004516520.1	scaffold1272	183810	TT	CC	CC	INTRON	101495319	uncharacterized LOC101495319
SNP_91918_A_190558	NW_004516520.1	scaffold1272	190558	TT	CC	CC	INTRON	101495319	uncharacterized LOC101495319
SNP_91919_A_190699	NW_004516520.1	scaffold1272	190699	AA	GG	GG	INTRON	101495319	uncharacterized LOC101495319
SNP_91920_A_190816	NW_004516520.1	scaffold1272	190816	CC	AA	AA	INTRON	101495319	uncharacterized LOC101495319
SNP_91921_A_190829	NW_004516520.1	scaffold1272	190829	AA	GG	GG	INTRON	101495319	uncharacterized LOC101495319
SNP_91922_A_190960	NW_004516520.1	scaffold1272	190960	GG	TT	TT	INTRON	101495319	uncharacterized LOC101495319
SNP_91923_A_197567	NW_004516520.1	scaffold1272	197567	AA	GG	GG	INTRON	101495319	uncharacterized LOC101495319
SNP_91924_A_197663	NW_004516520.1	scaffold1272	197663	CC	TT	TT	INTRON	101495319	uncharacterized LOC101495319
SNP_91925_A_206917	NW_004516520.1	scaffold1272	206917	TT	GG	GG	INTRON	101495319	uncharacterized LOC101495319
SNP_91926_A_215575	NW_004516520.1	scaffold1272	215575	TT	AA	AA	INTRON	101495319	uncharacterized LOC101495319
SNP_91927_A_215577	NW_004516520.1	scaffold1272	215577	TT	GG	GG	INTRON	101495319	uncharacterized LOC101495319
SNP_91928_A_219595	NW_004516520.1	scaffold1272	219595	AA	TT	TT	INTRON	101495319	uncharacterized LOC101495319
SNP_91929_A_231721	NW_004516520.1	scaffold1272	231721	TT	CC	CC	INTRON	101495319	uncharacterized LOC101495319
SNP_91931_A_6991	NW_004516522.1	scaffold1274	6991	CC	GG	GG	INTERGENIC		
SNP_91932_A_7038	NW_004516522.1	scaffold1274	7038	TT	CC	CC	INTERGENIC		
SNP_91933_A_7071	NW_004516522.1	scaffold1274	7071	GG	AA	AA	INTERGENIC		
SNP_91934_A_7075	NW_004516522.1	scaffold1274	7075	AA	GG	GG	INTERGENIC		
SNP_91935_A_7085	NW_004516522.1	scaffold1274	7085	GG	CC	CC	INTERGENIC		
SNP_91936_A_7191	NW_004516522.1	scaffold1274	7191	GG	CC	CC	INTERGENIC		
SNP_91937_A_7199	NW_004516522.1	scaffold1274	7199	AA	TT	TT	INTERGENIC		
SNP_91938_A_7212	NW_004516522.1	scaffold1274	7212	CC	AA	AA	INTERGENIC		
SNP_91939_A_7230	NW_004516522.1	scaffold1274	7230	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91940_A_3706	NW_004516523.1	scaffold1275	3706	GG	AA	AA	INTERGENIC			
SNP_91941_A_5397	NW_004516523.1	scaffold1275	5397	GG	TT	TT	INTERGENIC			
SNP_91942_A_5461	NW_004516523.1	scaffold1275	5461	TT	CC	CC	INTERGENIC			
SNP_91943_A_5470	NW_004516523.1	scaffold1275	5470	AA	GG	GG	INTERGENIC			
SNP_91944_A_5547	NW_004516523.1	scaffold1275	5547	GG	CC	CC	INTERGENIC			
SNP_91945_A_5691	NW_004516523.1	scaffold1275	5691	TT	CC	CC	INTERGENIC			
SNP_91946_A_5698	NW_004516523.1	scaffold1275	5698	TT	CC	CC	INTERGENIC			
SNP_91947_A_5791	NW_004516523.1	scaffold1275	5791	AA	GG	GG	INTERGENIC			
SNP_91948_A_5820	NW_004516523.1	scaffold1275	5820	TT	CC	CC	INTERGENIC			
SNP_91949_A_5827	NW_004516523.1	scaffold1275	5827	TT	CC	CC	INTERGENIC			
SNP_91950_A_5844	NW_004516523.1	scaffold1275	5844	GG	AA	AA	INTERGENIC			
SNP_91951_A_5860	NW_004516523.1	scaffold1275	5860	CC	TT	TT	INTERGENIC			
SNP_91952_A_5861	NW_004516523.1	scaffold1275	5861	AA	GG	GG	INTERGENIC			
SNP_91953_A_5889	NW_004516523.1	scaffold1275	5889	GG	AA	AA	INTERGENIC			
SNP_91954_A_5916	NW_004516523.1	scaffold1275	5916	CC	TT	TT	INTERGENIC			
SNP_91955_A_5917	NW_004516523.1	scaffold1275	5917	GG	AA	AA	INTERGENIC			
SNP_91956_A_5933	NW_004516523.1	scaffold1275	5933	TT	CC	CC	INTERGENIC			
SNP_91957_A_5935	NW_004516523.1	scaffold1275	5935	AA	GG	GG	INTERGENIC			
SNP_91958_A_5972	NW_004516523.1	scaffold1275	5972	GG	AA	AA	INTERGENIC			
SNP_91959_A_5973	NW_004516523.1	scaffold1275	5973	AA	GG	GG	INTERGENIC			
SNP_91960_A_5997	NW_004516523.1	scaffold1275	5997	GG	AA	AA	INTERGENIC			
SNP_91961_A_6003	NW_004516523.1	scaffold1275	6003	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_91962_A_6035	NW_004516523.1	scaffold1275	6035	TT	AA	AA	INTERGENIC		
SNP_91963_A_6054	NW_004516523.1	scaffold1275	6054	AA	GG	GG	INTERGENIC		
SNP_91964_A_6055	NW_004516523.1	scaffold1275	6055	AA	CC	CC	INTERGENIC		
SNP_91965_A_6056	NW_004516523.1	scaffold1275	6056	GG	CC	CC	INTERGENIC		
SNP_91966_A_6058	NW_004516523.1	scaffold1275	6058	AA	GG	GG	INTERGENIC		
SNP_91967_A_6181	NW_004516523.1	scaffold1275	6181	GG	AA	AA	INTERGENIC		
SNP_91969_A_6290	NW_004516523.1	scaffold1275	6290	CC	TT	TT	INTERGENIC		
SNP_91970_A_6363	NW_004516523.1	scaffold1275	6363	AA	GG	GG	INTERGENIC		
SNP_91971_A_6380	NW_004516523.1	scaffold1275	6380	TT	CC	CC	INTERGENIC		
SNP_91972_A_12123	NW_004516523.1	scaffold1275	12123	CC	AA	AA	INTRON	101495644	CEN-like protein 4
SNP_91973_A_12173	NW_004516523.1	scaffold1275	12173	AA	GG	GG	INTRON	101495644	CEN-like protein 4
SNP_91974_A_12341	NW_004516523.1	scaffold1275	12341	CC	AA	AA	INTRON	101495644	CEN-like protein 4
SNP_91975_A_135	NW_004516524.1	scaffold1276	135	AA	GG	GG	INTERGENIC		
SNP_91976_A_335	NW_004516524.1	scaffold1276	335	CC	TT	TT	INTERGENIC		
SNP_91977_A_615	NW_004516524.1	scaffold1276	615	TT	AA	AA	INTERGENIC		
SNP_91978_A_618	NW_004516524.1	scaffold1276	618	AA	GG	GG	INTERGENIC		
SNP_91979_A_623	NW_004516524.1	scaffold1276	623	CC	TT	TT	INTERGENIC		
SNP_91980_A_958	NW_004516524.1	scaffold1276	958	AA	TT	TT	INTERGENIC		
SNP_91981_A_1052	NW_004516524.1	scaffold1276	1052	GG	CC	CC	INTERGENIC		
SNP_91982_A_1087	NW_004516524.1	scaffold1276	1087	CC	AA	AA	INTERGENIC		
SNP_91983_A_1163	NW_004516524.1	scaffold1276	1163	TT	CC	CC	INTERGENIC		
SNP_91985_A_1543	NW_004516524.1	scaffold1276	1543	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_91987_A_1686	NW_004516524.1	scaffold1276	1686	CC	TT	TT	INTERGENIC			
SNP_91988_A_1832	NW_004516524.1	scaffold1276	1832	GG	TT	TT	INTERGENIC			
SNP_91989_A_20900	NW_004516524.1	scaffold1276	20900	TT	GG	GG	INTERGENIC			
SNP_91990_A_34877	NW_004516524.1	scaffold1276	34877	AA	GG	GG	INTERGENIC			
SNP_91991_A_45666	NW_004516524.1	scaffold1276	45666	TT	GG	GG	INTERGENIC			
SNP_91992_A_47797	NW_004516524.1	scaffold1276	47797	AA	TT	TT	INTERGENIC			
SNP_91993_A_53690	NW_004516524.1	scaffold1276	53690	TT	GG	GG	INTERGENIC			
SNP_91994_A_58793	NW_004516524.1	scaffold1276	58793	CC	TT	TT	INTERGENIC			
SNP_91995_A_58796	NW_004516524.1	scaffold1276	58796	CC	TT	TT	INTERGENIC			
SNP_91996_A_58804	NW_004516524.1	scaffold1276	58804	CC	TT	TT	INTERGENIC			
SNP_91997_A_495	NW_004516525.1	scaffold1278	495	CC	AA	AA	INTERGENIC			
SNP_91998_A_10782	NW_004516525.1	scaffold1278	10782	CC	AA	AA	INTERGENIC			
SNP_91999_A_10785	NW_004516525.1	scaffold1278	10785	AA	GG	GG	INTERGENIC			
SNP_92000_A_10794	NW_004516525.1	scaffold1278	10794	AA	TT	TT	INTERGENIC			
SNP_92001_A_10813	NW_004516525.1	scaffold1278	10813	AA	GG	GG	INTERGENIC			
SNP_92002_A_10821	NW_004516525.1	scaffold1278	10821	AA	GG	GG	INTERGENIC			
SNP_92003_A_10855	NW_004516525.1	scaffold1278	10855	GG	AA	AA	INTERGENIC			
SNP_92004_A_11164	NW_004516525.1	scaffold1278	11164	AA	GG	GG	INTERGENIC			
SNP_92006_A_34912	NW_004516525.1	scaffold1278	34912	AA	GG	GG	INTERGENIC			
SNP_92007_A_35154	NW_004516525.1	scaffold1278	35154	GG	TT	TT	INTERGENIC			
SNP_92008_A_35330	NW_004516525.1	scaffold1278	35330	TT	CC	CC	INTERGENIC			
SNP_92009_A_35348	NW_004516525.1	scaffold1278	35348	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92011_A_35914	NW_004516525.1	scaffold1278	35914	CC	TT	TT	INTERGENIC		
SNP_92012_A_35942	NW_004516525.1	scaffold1278	35942	AA	GG	GG	INTERGENIC		
SNP_92013_A_35972	NW_004516525.1	scaffold1278	35972	CC	AA	AA	INTERGENIC		
SNP_92014_A_35975	NW_004516525.1	scaffold1278	35975	GG	AA	AA	INTERGENIC		
SNP_92015_A_35990	NW_004516525.1	scaffold1278	35990	TT	GG	GG	INTERGENIC		
SNP_92018_A_62178	NW_004516525.1	scaffold1278	62178	TT	GG	GG	INTRON	id210697	Unknown function
SNP_92019_A_62180	NW_004516525.1	scaffold1278	62180	TT	CC	CC	INTRON	id210697	Unknown function
SNP_92020_A_62182	NW_004516525.1	scaffold1278	62182	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92021_A_62193	NW_004516525.1	scaffold1278	62193	TT	CC	CC	INTRON	id210697	Unknown function
SNP_92022_A_62213	NW_004516525.1	scaffold1278	62213	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92023_A_62249	NW_004516525.1	scaffold1278	62249	AA	GG	GG	INTRON	id210697	Unknown function
SNP_92024_A_62271	NW_004516525.1	scaffold1278	62271	TT	AA	AA	INTRON	id210697	Unknown function
SNP_92025_A_62272	NW_004516525.1	scaffold1278	62272	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92026_A_62273	NW_004516525.1	scaffold1278	62273	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92027_A_62278	NW_004516525.1	scaffold1278	62278	AA	GG	GG	INTRON	id210697	Unknown function
SNP_92028_A_62334	NW_004516525.1	scaffold1278	62334	TT	CC	CC	INTRON	id210697	Unknown function
SNP_92029_A_62335	NW_004516525.1	scaffold1278	62335	TT	CC	CC	INTRON	id210697	Unknown function
SNP_92030_A_62346	NW_004516525.1	scaffold1278	62346	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92031_A_62371	NW_004516525.1	scaffold1278	62371	CC	TT	TT	INTRON	id210697	Unknown function
SNP_92032_A_62511	NW_004516525.1	scaffold1278	62511	GG	AA	AA	INTRON	id210697	Unknown function
SNP_92033_A_62733	NW_004516525.1	scaffold1278	62733	TT	CC	CC	INTRON	id210697	Unknown function
SNP_92034_A_62740	NW_004516525.1	scaffold1278	62740	GG	AA	AA	INTRON	id210697	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92035_A_62836	NW_004516525.1	scaffold1278	62836	TT	CC	CC	SYNONYMOUS_CODING	id210697	Unknown function
SNP_92036_A_62857	NW_004516525.1	scaffold1278	62857	GG	AA	AA	SYNONYMOUS_CODING	id210697	Unknown function
SNP_92037_A_62875	NW_004516525.1	scaffold1278	62875	AA	CC	CC	NON_SYNONYMOUS_CODING	id210697	Unknown function
SNP_92038_A_62879	NW_004516525.1	scaffold1278	62879	CC	TT	TT	NON_SYNONYMOUS_CODING	id210697	Unknown function
SNP_92039_A_62921	NW_004516525.1	scaffold1278	62921	TT	GG	GG	STOP_LOST	id210697	Unknown function
SNP_92041_A_63131	NW_004516525.1	scaffold1278	63131	TT	CC	CC	NON_SYNONYMOUS_CODING	id210697	Unknown function
SNP_92042_A_63158	NW_004516525.1	scaffold1278	63158	TT	CC	CC	NON_SYNONYMOUS_CODING	id210697	Unknown function
SNP_92043_A_63160	NW_004516525.1	scaffold1278	63160	AA	CC	CC	NON_SYNONYMOUS_CODING	id210697	Unknown function
SNP_92044_A_63192	NW_004516525.1	scaffold1278	63192	AA	GG	GG	URR	101495969	uncharacterized LOC101495969
SNP_92045_A_63215	NW_004516525.1	scaffold1278	63215	GG	AA	AA	URR	101495969	uncharacterized LOC101495969
SNP_92046_A_63237	NW_004516525.1	scaffold1278	63237	CC	TT	TT	URR	101495969	uncharacterized LOC101495969
SNP_92049_A_63317	NW_004516525.1	scaffold1278	63317	TT	CC	CC	URR	101495969	uncharacterized LOC101495969
SNP_92050_A_63319	NW_004516525.1	scaffold1278	63319	AA	GG	GG	URR	101495969	uncharacterized LOC101495969
SNP_92051_A_63354	NW_004516525.1	scaffold1278	63354	AA	GG	GG	URR	101495969	uncharacterized LOC101495969
SNP_92052_A_63387	NW_004516525.1	scaffold1278	63387	AA	GG	GG	URR	101495969	uncharacterized LOC101495969
SNP_92055_A_84020	NW_004516525.1	scaffold1278	84020	GG	AA	AA	INTERGENIC		
SNP_92056_A_88725	NW_004516525.1	scaffold1278	88725	GG	AA	AA	INTERGENIC		
SNP_92057_A_95500	NW_004516525.1	scaffold1278	95500	AA	CC	CC	INTERGENIC		
SNP_92058_A_95505	NW_004516525.1	scaffold1278	95505	AA	TT	TT	INTERGENIC		
SNP_92059_A_95516	NW_004516525.1	scaffold1278	95516	TT	CC	CC	INTERGENIC		
SNP_92060_A_95548	NW_004516525.1	scaffold1278	95548	TT	GG	GG	INTERGENIC		
SNP_92061_A_95878	NW_004516525.1	scaffold1278	95878	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92062_A_95990	NW_004516525.1	scaffold1278	95990	AA	GG	GG	INTERGENIC		
SNP_92063_A_96018	NW_004516525.1	scaffold1278	96018	AA	GG	GG	INTERGENIC		
SNP_92064_A_100298	NW_004516525.1	scaffold1278	100298	TT	CC	CC	INTERGENIC		
SNP_92066_A_119973	NW_004516525.1	scaffold1278	119973	AA	TT	TT	INTERGENIC		
SNP_92067_A_1274	NW_004516526.1	scaffold1279	1274	AA	GG	GG	INTERGENIC		
SNP_92068_A_1290	NW_004516526.1	scaffold1279	1290	TT	CC	CC	INTERGENIC		
SNP_92069_A_1539	NW_004516527.1	scaffold1281	1539	TT	AA	AA	INTERGENIC		
SNP_92070_A_46549	NW_004516527.1	scaffold1281	46549	GG	TT	TT	DRR	101501899	transcription factor GTE12-like
SNP_92072_A_46576	NW_004516527.1	scaffold1281	46576	CC	AA	AA	DRR	101501899	transcription factor GTE12-like
SNP_92073_A_46768	NW_004516527.1	scaffold1281	46768	AA	GG	GG	DRR	101501899	transcription factor GTE12-like
SNP_92074_A_46810	NW_004516527.1	scaffold1281	46810	GG	AA	AA	DRR	101501899	transcription factor GTE12-like
SNP_92075_A_47457	NW_004516527.1	scaffold1281	47457	CC	GG	GG	DRR	101501899	transcription factor GTE12-like
SNP_92076_A_47525	NW_004516527.1	scaffold1281	47525	CC	TT	TT	NON_SYNONYMOUS_CODING	101501899	transcription factor GTE12-like
SNP_92077_A_48284	NW_004516527.1	scaffold1281	48284	GG	AA	AA	URR	101501899	transcription factor GTE12-like
SNP_92078_A_50796	NW_004516527.1	scaffold1281	50796	CC	GG	GG	INTERGENIC		
SNP_92079_A_51547	NW_004516527.1	scaffold1281	51547	GG	AA	AA	INTERGENIC		
SNP_92080_A_51752	NW_004516527.1	scaffold1281	51752	AA	GG	GG	INTERGENIC		
SNP_92081_A_51809	NW_004516527.1	scaffold1281	51809	CC	TT	TT	INTERGENIC		
SNP_92082_A_51921	NW_004516527.1	scaffold1281	51921	TT	AA	AA	INTERGENIC		
SNP_92083_A_51955	NW_004516527.1	scaffold1281	51955	TT	AA	AA	INTERGENIC		
SNP_92084_A_51956	NW_004516527.1	scaffold1281	51956	TT	AA	AA	INTERGENIC		
SNP_92085_A_52043	NW_004516527.1	scaffold1281	52043	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92086_A_53409	NW_004516527.1	scaffold1281	53409	GG	AA	AA	INTERGENIC		
SNP_92087_A_63347	NW_004516527.1	scaffold1281	63347	CC	TT	TT	INTERGENIC		
SNP_92088_A_66154	NW_004516527.1	scaffold1281	66154	GG	TT	TT	INTERGENIC		
SNP_92089_A_67294	NW_004516527.1	scaffold1281	67294	GG	AA	AA	INTERGENIC		
SNP_92090_A_160415	NW_004516527.1	scaffold1281	160415	AA	GG	GG	URR	101502859	uncharacterized LOC101502859
SNP_92092_A_166134	NW_004516527.1	scaffold1281	166134	AA	GG	GG	INTERGENIC		
SNP_92093_A_283266	NW_004516527.1	scaffold1281	283266	AA	TT	TT	URR	101504151	uncharacterized LOC101504151
SNP_92094_A_283271	NW_004516527.1	scaffold1281	283271	TT	CC	CC	DRR	101498837	DNA-directed RNA polymerase 1, mitochondrial-like
SNP_92095_A_283287	NW_004516527.1	scaffold1281	283287	AA	CC	CC	DRR	101498837	DNA-directed RNA polymerase 1, mitochondrial-like
SNP_92096_A_283298	NW_004516527.1	scaffold1281	283298	GG	CC	CC	DRR	101498837	DNA-directed RNA polymerase 1, mitochondrial-like
SNP_92097_A_296926	NW_004516527.1	scaffold1281	296926	GG	AA	AA	INTERGENIC		
SNP_92098_A_296955	NW_004516527.1	scaffold1281	296955	GG	TT	TT	INTERGENIC		
SNP_92099_A_308631	NW_004516527.1	scaffold1281	308631	GG	AA	AA	INTERGENIC		
SNP_92100_A_376316	NW_004516527.1	scaffold1281	376316	GG	AA	AA	INTERGENIC		
SNP_92102_A_376489	NW_004516527.1	scaffold1281	376489	AA	CC	CC	INTERGENIC		
SNP_92103_A_376537	NW_004516527.1	scaffold1281	376537	GG	TT	TT	INTERGENIC		
SNP_92105_A_435240	NW_004516527.1	scaffold1281	435240	GG	AA	AA	INTERGENIC		
SNP_92107_A_467387	NW_004516527.1	scaffold1281	467387	AA	GG	GG	INTERGENIC		
SNP_92108_A_469010	NW_004516527.1	scaffold1281	469010	CC	TT	TT	INTERGENIC		
SNP_92110_A_471201	NW_004516527.1	scaffold1281	471201	CC	TT	TT	INTERGENIC		
SNP_92111_A_471371	NW_004516527.1	scaffold1281	471371	CC	TT	TT	INTERGENIC		
SNP_92112_A_471404	NW_004516527.1	scaffold1281	471404	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92113_A_471422	NW_004516527.1	scaffold1281	471422	AA	TT	TT	INTERGENIC			
SNP_92114_A_471476	NW_004516527.1	scaffold1281	471476	CC	AA	AA	INTERGENIC			
SNP_92115_A_471502	NW_004516527.1	scaffold1281	471502	TT	CC	CC	INTERGENIC			
SNP_92116_A_471580	NW_004516527.1	scaffold1281	471580	TT	GG	GG	INTERGENIC			
SNP_92118_A_471940	NW_004516527.1	scaffold1281	471940	AA	GG	GG	INTERGENIC			
SNP_92119_A_472102	NW_004516527.1	scaffold1281	472102	TT	CC	CC	INTERGENIC			
SNP_92122_A_475333	NW_004516527.1	scaffold1281	475333	AA	GG	GG	INTERGENIC			
SNP_92123_A_475918	NW_004516527.1	scaffold1281	475918	AA	GG	GG	INTERGENIC			
SNP_92124_A_490478	NW_004516527.1	scaffold1281	490478	TT	CC	CC	INTERGENIC			
SNP_92125_A_492031	NW_004516527.1	scaffold1281	492031	AA	GG	GG	INTERGENIC			
SNP_92126_A_492162	NW_004516527.1	scaffold1281	492162	AA	GG	GG	INTERGENIC			
SNP_92128_A_492386	NW_004516527.1	scaffold1281	492386	CC	GG	GG	INTERGENIC			
SNP_92129_A_492389	NW_004516527.1	scaffold1281	492389	TT	CC	CC	INTERGENIC			
SNP_92130_A_492402	NW_004516527.1	scaffold1281	492402	CC	GG	GG	INTERGENIC			
SNP_92131_A_492455	NW_004516527.1	scaffold1281	492455	AA	GG	GG	INTERGENIC			
SNP_92132_A_503796	NW_004516527.1	scaffold1281	503796	AA	CC	CC	INTERGENIC			
SNP_92133_A_503894	NW_004516527.1	scaffold1281	503894	TT	CC	CC	INTERGENIC			
SNP_92134_A_503919	NW_004516527.1	scaffold1281	503919	TT	CC	CC	INTERGENIC			
SNP_92135_A_503921	NW_004516527.1	scaffold1281	503921	GG	TT	TT	INTERGENIC			
SNP_92136_A_503957	NW_004516527.1	scaffold1281	503957	TT	GG	GG	INTERGENIC			
SNP_92137_A_504024	NW_004516527.1	scaffold1281	504024	TT	GG	GG	INTERGENIC			
SNP_92138_A_504098	NW_004516527.1	scaffold1281	504098	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92139_A_504107	NW_004516527.1	scaffold1281	504107	TT	CC	CC	INTERGENIC			
SNP_92140_A_504115	NW_004516527.1	scaffold1281	504115	TT	CC	CC	INTERGENIC			
SNP_92141_A_504134	NW_004516527.1	scaffold1281	504134	GG	TT	TT	INTERGENIC			
SNP_92142_A_504138	NW_004516527.1	scaffold1281	504138	CC	TT	TT	INTERGENIC			
SNP_92143_A_504187	NW_004516527.1	scaffold1281	504187	GG	CC	CC	INTERGENIC			
SNP_92144_A_504281	NW_004516527.1	scaffold1281	504281	AA	CC	CC	INTERGENIC			
SNP_92145_A_504408	NW_004516527.1	scaffold1281	504408	CC	TT	TT	INTERGENIC			
SNP_92147_A_504440	NW_004516527.1	scaffold1281	504440	CC	TT	TT	INTERGENIC			
SNP_92148_A_504577	NW_004516527.1	scaffold1281	504577	CC	TT	TT	INTERGENIC			
SNP_92149_A_516222	NW_004516527.1	scaffold1281	516222	GG	AA	AA	INTERGENIC			
SNP_92150_A_518041	NW_004516527.1	scaffold1281	518041	CC	TT	TT	INTERGENIC			
SNP_92151_A_4166	NW_004516528.1	scaffold1283	4166	CC	AA	AA	INTERGENIC			
SNP_92152_A_13734	NW_004516528.1	scaffold1283	13734	AA	CC	CC	INTERGENIC			
SNP_92153_A_13737	NW_004516528.1	scaffold1283	13737	TT	GG	GG	INTERGENIC			
SNP_92154_A_53764	NW_004516528.1	scaffold1283	53764	AA	GG	GG	INTERGENIC			
SNP_92155_A_53805	NW_004516528.1	scaffold1283	53805	TT	AA	AA	INTERGENIC			
SNP_92156_A_53816	NW_004516528.1	scaffold1283	53816	TT	AA	AA	INTERGENIC			
SNP_92157_A_54185	NW_004516528.1	scaffold1283	54185	TT	GG	GG	INTERGENIC			
SNP_92158_A_54191	NW_004516528.1	scaffold1283	54191	GG	TT	TT	INTERGENIC			
SNP_92159_A_54204	NW_004516528.1	scaffold1283	54204	AA	GG	GG	INTERGENIC			
SNP_92160_A_54224	NW_004516528.1	scaffold1283	54224	AA	TT	TT	INTERGENIC			
SNP_92162_A_59698	NW_004516528.1	scaffold1283	59698	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92164_A_64523	NW_004516528.1	scaffold1283	64523	GG	AA	AA	INTERGENIC			
SNP_92165_A_64551	NW_004516528.1	scaffold1283	64551	TT	AA	AA	INTERGENIC			
SNP_92166_A_64564	NW_004516528.1	scaffold1283	64564	CC	TT	TT	INTERGENIC			
SNP_92167_A_64623	NW_004516528.1	scaffold1283	64623	AA	GG	GG	INTERGENIC			
SNP_92168_A_64624	NW_004516528.1	scaffold1283	64624	TT	CC	CC	INTERGENIC			
SNP_92169_A_64625	NW_004516528.1	scaffold1283	64625	GG	AA	AA	INTERGENIC			
SNP_92170_A_64626	NW_004516528.1	scaffold1283	64626	CC	TT	TT	INTERGENIC			
SNP_92171_A_64627	NW_004516528.1	scaffold1283	64627	GG	AA	AA	INTERGENIC			
SNP_92172_A_74300	NW_004516528.1	scaffold1283	74300	CC	TT	TT	INTERGENIC			
SNP_92173_A_14338	NW_004516529.1	scaffold1285	14338	GG	CC	CC	INTERGENIC			
SNP_92174_A_65327	NW_004516529.1	scaffold1285	65327	TT	CC	CC	INTERGENIC			
SNP_92175_A_65559	NW_004516529.1	scaffold1285	65559	GG	AA	AA	INTERGENIC			
SNP_92176_A_65754	NW_004516529.1	scaffold1285	65754	CC	TT	TT	INTERGENIC			
SNP_92177_A_66234	NW_004516529.1	scaffold1285	66234	CC	GG	GG	INTERGENIC			
SNP_92178_A_67137	NW_004516529.1	scaffold1285	67137	AA	GG	GG	INTERGENIC			
SNP_92179_A_67139	NW_004516529.1	scaffold1285	67139	TT	AA	AA	INTERGENIC			
SNP_92180_A_67274	NW_004516529.1	scaffold1285	67274	TT	CC	CC	INTERGENIC			
SNP_92181_A_67281	NW_004516529.1	scaffold1285	67281	AA	GG	GG	INTERGENIC			
SNP_92182_A_67301	NW_004516529.1	scaffold1285	67301	AA	GG	GG	INTERGENIC			
SNP_92183_A_67418	NW_004516529.1	scaffold1285	67418	TT	GG	GG	INTERGENIC			
SNP_92184_A_67467	NW_004516529.1	scaffold1285	67467	AA	TT	TT	INTERGENIC			
SNP_92185_A_67548	NW_004516529.1	scaffold1285	67548	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92186_A_67556	NW_004516529.1	scaffold1285	67556	AA	GG	GG	INTERGENIC		
SNP_92187_A_67598	NW_004516529.1	scaffold1285	67598	GG	AA	AA	INTERGENIC		
SNP_92188_A_67602	NW_004516529.1	scaffold1285	67602	AA	CC	CC	INTERGENIC		
SNP_92189_A_67603	NW_004516529.1	scaffold1285	67603	TT	CC	CC	INTERGENIC		
SNP_92190_A_67606	NW_004516529.1	scaffold1285	67606	AA	TT	TT	INTERGENIC		
SNP_92191_A_67618	NW_004516529.1	scaffold1285	67618	AA	CC	CC	INTERGENIC		
SNP_92192_A_67695	NW_004516529.1	scaffold1285	67695	TT	CC	CC	INTERGENIC		
SNP_92193_A_73102	NW_004516529.1	scaffold1285	73102	AA	GG	GG	INTERGENIC		
SNP_92194_A_104436	NW_004516529.1	scaffold1285	104436	TT	CC	CC	INTRON	101507902	Unknown function
SNP_92195_A_198252	NW_004516529.1	scaffold1285	198252	AA	GG	GG	URR	101507069	pentatricopeptide repeat-containing protein At5g47360
SNP_92196_A_204605	NW_004516529.1	scaffold1285	204605	CC	TT	TT	INTERGENIC		
SNP_92197_A_210992	NW_004516529.1	scaffold1285	210992	CC	TT	TT	INTERGENIC		
SNP_92198_A_211052	NW_004516529.1	scaffold1285	211052	TT	GG	GG	INTERGENIC		
SNP_92199_A_211059	NW_004516529.1	scaffold1285	211059	TT	CC	CC	INTERGENIC		
SNP_92200_A_211083	NW_004516529.1	scaffold1285	211083	TT	CC	CC	INTERGENIC		
SNP_92201_A_239631	NW_004516529.1	scaffold1285	239631	AA	GG	GG	URR	101508852	Unknown function
SNP_92202_A_239666	NW_004516529.1	scaffold1285	239666	AA	CC	CC	URR	101508852	Unknown function
SNP_92203_A_239869	NW_004516529.1	scaffold1285	239869	AA	CC	CC	URR	101508852	Unknown function
SNP_92204_A_239884	NW_004516529.1	scaffold1285	239884	AA	GG	GG	URR	101508852	Unknown function
SNP_92205_A_244522	NW_004516529.1	scaffold1285	244522	GG	AA	AA	INTERGENIC		
SNP_92206_A_254815	NW_004516529.1	scaffold1285	254815	AA	GG	GG	INTERGENIC		
SNP_92207_A_254829	NW_004516529.1	scaffold1285	254829	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92208_A_278487	NW_004516529.1	scaffold1285	278487	AA	GG	GG	INTERGENIC			
SNP_92209_A_278501	NW_004516529.1	scaffold1285	278501	TT	GG	GG	INTERGENIC			
SNP_92210_A_278535	NW_004516529.1	scaffold1285	278535	TT	AA	AA	INTERGENIC			
SNP_92211_A_279037	NW_004516529.1	scaffold1285	279037	AA	TT	TT	INTERGENIC			
SNP_92212_A_279049	NW_004516529.1	scaffold1285	279049	CC	TT	TT	INTERGENIC			
SNP_92213_A_279057	NW_004516529.1	scaffold1285	279057	CC	AA	AA	INTERGENIC			
SNP_92214_A_279058	NW_004516529.1	scaffold1285	279058	AA	GG	GG	INTERGENIC			
SNP_92215_A_286072	NW_004516529.1	scaffold1285	286072	CC	TT	TT	INTERGENIC			
SNP_92216_A_332169	NW_004516529.1	scaffold1285	332169	TT	CC	CC	INTERGENIC			
SNP_92217_A_2200	NW_004516530.1	scaffold1286	2200	AA	GG	GG	INTERGENIC			
SNP_92218_A_2255	NW_004516530.1	scaffold1286	2255	GG	AA	AA	INTERGENIC			
SNP_92219_A_2491	NW_004516530.1	scaffold1286	2491	CC	TT	TT	INTERGENIC			
SNP_92220_A_6982	NW_004516530.1	scaffold1286	6982	GG	TT	TT	INTERGENIC			
SNP_92221_A_14591	NW_004516530.1	scaffold1286	14591	GG	AA	AA	INTERGENIC			
SNP_92222_A_15429	NW_004516530.1	scaffold1286	15429	GG	TT	TT	INTERGENIC			
SNP_92223_A_15455	NW_004516530.1	scaffold1286	15455	GG	CC	CC	INTERGENIC			
SNP_92224_A_15547	NW_004516530.1	scaffold1286	15547	CC	TT	TT	INTERGENIC			
SNP_92225_A_15559	NW_004516530.1	scaffold1286	15559	CC	GG	GG	INTERGENIC			
SNP_92226_A_15664	NW_004516530.1	scaffold1286	15664	AA	TT	TT	INTERGENIC			
SNP_92227_A_15689	NW_004516530.1	scaffold1286	15689	AA	CC	CC	INTERGENIC			
SNP_92228_A_15741	NW_004516530.1	scaffold1286	15741	AA	CC	CC	INTERGENIC			
SNP_92229_A_15843	NW_004516530.1	scaffold1286	15843	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92230_A_15901	NW_004516530.1	scaffold1286	15901	TT	AA	AA	INTERGENIC			
SNP_92231_A_22622	NW_004516530.1	scaffold1286	22622	GG	TT	TT	INTERGENIC			
SNP_92232_A_64	NW_004516533.1	scaffold1291	64	AA	GG	GG	INTERGENIC			
SNP_92233_A_65	NW_004516533.1	scaffold1291	65	AA	GG	GG	INTERGENIC			
SNP_92234_A_4155	NW_004516534.1	scaffold1292	4155	CC	TT	TT	INTERGENIC			
SNP_92235_A_7562	NW_004516534.1	scaffold1292	7562	GG	AA	AA	INTERGENIC			
SNP_92237_A_8032	NW_004516534.1	scaffold1292	8032	TT	CC	CC	INTERGENIC			
SNP_92238_A_8136	NW_004516534.1	scaffold1292	8136	AA	GG	GG	INTERGENIC			
SNP_92239_A_8147	NW_004516534.1	scaffold1292	8147	TT	AA	AA	INTERGENIC			
SNP_92240_A_8181	NW_004516534.1	scaffold1292	8181	TT	AA	AA	INTERGENIC			
SNP_92241_A_8196	NW_004516534.1	scaffold1292	8196	CC	AA	AA	INTERGENIC			
SNP_92242_A_8200	NW_004516534.1	scaffold1292	8200	GG	TT	TT	INTERGENIC			
SNP_92243_A_8270	NW_004516534.1	scaffold1292	8270	TT	GG	GG	INTERGENIC			
SNP_92244_A_31666	NW_004516535.1	scaffold1293	31666	AA	CC	CC	INTERGENIC			
SNP_92245_A_31689	NW_004516535.1	scaffold1293	31689	CC	TT	TT	INTERGENIC			
SNP_92246_A_31806	NW_004516535.1	scaffold1293	31806	CC	TT	TT	INTERGENIC			
SNP_92247_A_31807	NW_004516535.1	scaffold1293	31807	TT	GG	GG	INTERGENIC			
SNP_92248_A_37431	NW_004516535.1	scaffold1293	37431	GG	TT	TT	INTERGENIC			
SNP_92249_A_44413	NW_004516535.1	scaffold1293	44413	AA	GG	GG	INTERGENIC			
SNP_92250_A_44426	NW_004516535.1	scaffold1293	44426	TT	CC	CC	INTERGENIC			
SNP_92251_A_44441	NW_004516535.1	scaffold1293	44441	TT	GG	GG	INTERGENIC			
SNP_92252_A_44764	NW_004516535.1	scaffold1293	44764	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92253_A_44790	NW_004516535.1	scaffold1293	44790	AA	GG	GG	INTERGENIC			
SNP_92254_A_66592	NW_004516535.1	scaffold1293	66592	CC	TT	TT	INTERGENIC			
SNP_92255_A_66598	NW_004516535.1	scaffold1293	66598	GG	TT	TT	INTERGENIC			
SNP_92256_A_67174	NW_004516535.1	scaffold1293	67174	CC	TT	TT	INTERGENIC			
SNP_92257_A_67196	NW_004516535.1	scaffold1293	67196	CC	TT	TT	INTERGENIC			
SNP_92258_A_67558	NW_004516535.1	scaffold1293	67558	TT	AA	AA	INTERGENIC			
SNP_92259_A_68015	NW_004516535.1	scaffold1293	68015	AA	TT	TT	INTERGENIC			
SNP_92260_A_68226	NW_004516535.1	scaffold1293	68226	GG	TT	TT	INTERGENIC			
SNP_92261_A_68243	NW_004516535.1	scaffold1293	68243	CC	TT	TT	INTERGENIC			
SNP_92262_A_68618	NW_004516535.1	scaffold1293	68618	TT	CC	CC	INTERGENIC			
SNP_92263_A_68867	NW_004516535.1	scaffold1293	68867	TT	CC	CC	INTERGENIC			
SNP_92264_A_72394	NW_004516535.1	scaffold1293	72394	GG	AA	AA	INTERGENIC			
SNP_92265_A_72515	NW_004516535.1	scaffold1293	72515	AA	TT	TT	INTERGENIC			
SNP_92266_A_72518	NW_004516535.1	scaffold1293	72518	TT	CC	CC	INTERGENIC			
SNP_92267_A_73109	NW_004516535.1	scaffold1293	73109	TT	CC	CC	INTERGENIC			
SNP_92268_A_79139	NW_004516535.1	scaffold1293	79139	AA	TT	TT	INTERGENIC			
SNP_92269_A_79161	NW_004516535.1	scaffold1293	79161	CC	GG	GG	INTERGENIC			
SNP_92270_A_79222	NW_004516535.1	scaffold1293	79222	GG	TT	TT	INTERGENIC			
SNP_92271_A_79234	NW_004516535.1	scaffold1293	79234	GG	CC	CC	INTERGENIC			
SNP_92272_A_79330	NW_004516535.1	scaffold1293	79330	TT	AA	AA	INTERGENIC			
SNP_92273_A_80372	NW_004516535.1	scaffold1293	80372	TT	AA	AA	INTERGENIC			
SNP_92274_A_87925	NW_004516535.1	scaffold1293	87925	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92275_A_87938	NW_004516535.1	scaffold1293	87938	AA	CC	CC	INTERGENIC			
SNP_92276_A_87951	NW_004516535.1	scaffold1293	87951	TT	AA	AA	INTERGENIC			
SNP_92277_A_88500	NW_004516535.1	scaffold1293	88500	GG	CC	CC	INTERGENIC			
SNP_92278_A_88516	NW_004516535.1	scaffold1293	88516	AA	CC	CC	INTERGENIC			
SNP_92279_A_88582	NW_004516535.1	scaffold1293	88582	GG	AA	AA	INTERGENIC			
SNP_92280_A_88594	NW_004516535.1	scaffold1293	88594	GG	CC	CC	INTERGENIC			
SNP_92281_A_88648	NW_004516535.1	scaffold1293	88648	TT	CC	CC	INTERGENIC			
SNP_92282_A_91084	NW_004516535.1	scaffold1293	91084	CC	AA	AA	INTERGENIC			
SNP_92283_A_91334	NW_004516535.1	scaffold1293	91334	GG	TT	TT	INTERGENIC			
SNP_92284_A_91420	NW_004516535.1	scaffold1293	91420	TT	GG	GG	INTERGENIC			
SNP_92285_A_91584	NW_004516535.1	scaffold1293	91584	CC	GG	GG	INTERGENIC			
SNP_92286_A_91654	NW_004516535.1	scaffold1293	91654	CC	TT	TT	INTERGENIC			
SNP_92287_A_91918	NW_004516535.1	scaffold1293	91918	AA	TT	TT	INTERGENIC			
SNP_92288_A_92452	NW_004516535.1	scaffold1293	92452	AA	GG	GG	INTERGENIC			
SNP_92289_A_92476	NW_004516535.1	scaffold1293	92476	GG	AA	AA	INTERGENIC			
SNP_92290_A_26808	NW_004516536.1	scaffold1294	26808	GG	CC	CC	INTERGENIC			
SNP_92291_A_29910	NW_004516536.1	scaffold1294	29910	AA	GG	GG	INTERGENIC			
SNP_92293_A_30021	NW_004516536.1	scaffold1294	30021	AA	TT	TT	INTERGENIC			
SNP_92294_A_30087	NW_004516536.1	scaffold1294	30087	AA	TT	TT	INTERGENIC			
SNP_92296_A_32788	NW_004516536.1	scaffold1294	32788	AA	GG	GG	INTERGENIC			
SNP_92297_A_32899	NW_004516536.1	scaffold1294	32899	GG	AA	AA	INTERGENIC			
SNP_92299_A_34328	NW_004516536.1	scaffold1294	34328	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92300_A_34902	NW_004516536.1	scaffold1294	34902	GG	TT	TT	INTERGENIC			
SNP_92301_A_2470	NW_004516538.1	scaffold1301_1	2470	GG	AA	AA	INTERGENIC			
SNP_92302_A_75392	NW_004516538.1	scaffold1301_1	75392	CC	TT	TT	INTERGENIC			
SNP_92303_A_168297	NW_004516538.1	scaffold1301_1	168297	TT	CC	CC	INTERGENIC			
SNP_92304_A_168606	NW_004516538.1	scaffold1301_1	168606	AA	GG	GG	INTERGENIC			
SNP_92305_A_215492	NW_004516538.1	scaffold1301_1	215492	CC	TT	TT	INTERGENIC			
SNP_92307_A_246354	NW_004516538.1	scaffold1301_1	246354	TT	CC	CC	INTERGENIC			
SNP_92308_A_259975	NW_004516538.1	scaffold1301_1	259975	GG	AA	AA	DRR	101492528	probable polygalacturonase At3g15720	
SNP_92310_A_283901	NW_004516538.1	scaffold1301_1	283901	TT	CC	CC	INTERGENIC			
SNP_92311_A_286850	NW_004516538.1	scaffold1301_1	286850	AA	GG	GG	INTERGENIC			
SNP_92312_A_290781	NW_004516538.1	scaffold1301_1	290781	GG	AA	AA	INTERGENIC			
SNP_92313_A_290783	NW_004516538.1	scaffold1301_1	290783	GG	AA	AA	INTERGENIC			
SNP_92314_A_298938	NW_004516538.1	scaffold1301_1	298938	AA	GG	GG	INTERGENIC			
SNP_92315_A_299022	NW_004516538.1	scaffold1301_1	299022	CC	TT	TT	INTERGENIC			
SNP_92316_A_299200	NW_004516538.1	scaffold1301_1	299200	AA	GG	GG	INTERGENIC			
SNP_92317_A_299359	NW_004516538.1	scaffold1301_1	299359	AA	GG	GG	INTERGENIC			
SNP_92318_A_299371	NW_004516538.1	scaffold1301_1	299371	TT	CC	CC	INTERGENIC			
SNP_92319_A_299561	NW_004516538.1	scaffold1301_1	299561	TT	CC	CC	INTERGENIC			
SNP_92320_A_1920	NW_004516539.1	scaffold1302	1920	TT	GG	GG	INTERGENIC			
SNP_92321_A_2228	NW_004516539.1	scaffold1302	2228	AA	GG	GG	INTERGENIC			
SNP_92322_A_15399	NW_004516539.1	scaffold1302	15399	GG	AA	AA	INTERGENIC			
SNP_92323_A_6082	NW_004516540.1	scaffold1303	6082	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92324_A_360	NW_004516541.1	scaffold1304	360	AA	CC	CC	INTERGENIC			
SNP_92326_A_10430	NW_004516543.1	scaffold1307	10430	GG	AA	AA	INTERGENIC			
SNP_92327_A_10533	NW_004516543.1	scaffold1307	10533	AA	GG	GG	INTERGENIC			
SNP_92328_A_20487	NW_004516543.1	scaffold1307	20487	TT	CC	CC	INTERGENIC			
SNP_92329_A_31631	NW_004516543.1	scaffold1307	31631	AA	GG	GG	INTERGENIC			
SNP_92330_A_36162	NW_004516543.1	scaffold1307	36162	AA	TT	TT	INTERGENIC			
SNP_92331_A_36188	NW_004516543.1	scaffold1307	36188	AA	CC	CC	INTERGENIC			
SNP_92332_A_36211	NW_004516543.1	scaffold1307	36211	GG	TT	TT	INTERGENIC			
SNP_92333_A_39634	NW_004516543.1	scaffold1307	39634	CC	TT	TT	INTERGENIC			
SNP_92334_A_44357	NW_004516543.1	scaffold1307	44357	TT	CC	CC	INTERGENIC			
SNP_92335_A_2651	NW_004516544.1	scaffold1308	2651	TT	AA	AA	INTERGENIC			
SNP_92336_A_3398	NW_004516544.1	scaffold1308	3398	AA	TT	TT	INTERGENIC			
SNP_92337_A_5924	NW_004516544.1	scaffold1308	5924	TT	CC	CC	INTERGENIC			
SNP_92338_A_6265	NW_004516544.1	scaffold1308	6265	CC	TT	TT	INTERGENIC			
SNP_92339_A_8949	NW_004516544.1	scaffold1308	8949	CC	TT	TT	INTERGENIC			
SNP_92340_A_8950	NW_004516544.1	scaffold1308	8950	AA	TT	TT	INTERGENIC			
SNP_92341_A_8973	NW_004516544.1	scaffold1308	8973	TT	CC	CC	INTERGENIC			
SNP_92342_A_9033	NW_004516544.1	scaffold1308	9033	TT	AA	AA	INTERGENIC			
SNP_92343_A_9667	NW_004516544.1	scaffold1308	9667	TT	CC	CC	INTERGENIC			
SNP_92344_A_11540	NW_004516544.1	scaffold1308	11540	AA	TT	TT	INTERGENIC			
SNP_92346_A_12023	NW_004516544.1	scaffold1308	12023	CC	GG	GG	INTERGENIC			
SNP_92347_A_12031	NW_004516544.1	scaffold1308	12031	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92348_A_12655	NW_004516544.1	scaffold1308	12655	GG	TT	TT	INTERGENIC			
SNP_92349_A_12669	NW_004516544.1	scaffold1308	12669	CC	AA	AA	INTERGENIC			
SNP_92350_A_12671	NW_004516544.1	scaffold1308	12671	GG	AA	AA	INTERGENIC			
SNP_92351_A_14254	NW_004516544.1	scaffold1308	14254	CC	AA	AA	INTERGENIC			
SNP_92352_A_15615	NW_004516544.1	scaffold1308	15615	CC	TT	TT	INTERGENIC			
SNP_92354_A_21694	NW_004516544.1	scaffold1308	21694	CC	TT	TT	INTERGENIC			
SNP_92355_A_22699	NW_004516544.1	scaffold1308	22699	AA	TT	TT	INTERGENIC			
SNP_92356_A_24216	NW_004516544.1	scaffold1308	24216	TT	CC	CC	INTERGENIC			
SNP_92357_A_24302	NW_004516544.1	scaffold1308	24302	CC	GG	GG	INTERGENIC			
SNP_92358_A_24555	NW_004516544.1	scaffold1308	24555	CC	AA	AA	INTERGENIC			
SNP_92359_A_24559	NW_004516544.1	scaffold1308	24559	GG	TT	TT	INTERGENIC			
SNP_92360_A_24592	NW_004516544.1	scaffold1308	24592	CC	TT	TT	INTERGENIC			
SNP_92361_A_24622	NW_004516544.1	scaffold1308	24622	AA	TT	TT	INTERGENIC			
SNP_92362_A_34480	NW_004516544.1	scaffold1308	34480	CC	AA	AA	INTERGENIC			
SNP_92363_A_34570	NW_004516544.1	scaffold1308	34570	CC	GG	GG	INTERGENIC			
SNP_92364_A_35268	NW_004516544.1	scaffold1308	35268	AA	GG	GG	INTERGENIC			
SNP_92365_A_39977	NW_004516544.1	scaffold1308	39977	TT	CC	CC	INTERGENIC			
SNP_92366_A_42160	NW_004516544.1	scaffold1308	42160	AA	GG	GG	INTERGENIC			
SNP_92367_A_43282	NW_004516544.1	scaffold1308	43282	GG	CC	CC	INTERGENIC			
SNP_92368_A_43840	NW_004516544.1	scaffold1308	43840	GG	AA	AA	INTERGENIC			
SNP_92369_A_43931	NW_004516544.1	scaffold1308	43931	AA	GG	GG	INTERGENIC			
SNP_92370_A_43936	NW_004516544.1	scaffold1308	43936	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92371_A_55580	NW_004516544.1	scaffold1308	55580	CC	TT	TT	INTERGENIC			
SNP_92372_A_55582	NW_004516544.1	scaffold1308	55582	GG	TT	TT	INTERGENIC			
SNP_92373_A_55932	NW_004516544.1	scaffold1308	55932	GG	TT	TT	INTERGENIC			
SNP_92374_A_55963	NW_004516544.1	scaffold1308	55963	TT	GG	GG	INTERGENIC			
SNP_92375_A_55966	NW_004516544.1	scaffold1308	55966	CC	TT	TT	INTERGENIC			
SNP_92376_A_55968	NW_004516544.1	scaffold1308	55968	GG	AA	AA	INTERGENIC			
SNP_92377_A_55977	NW_004516544.1	scaffold1308	55977	CC	AA	AA	INTERGENIC			
SNP_92378_A_55980	NW_004516544.1	scaffold1308	55980	GG	AA	AA	INTERGENIC			
SNP_92379_A_55984	NW_004516544.1	scaffold1308	55984	GG	CC	CC	INTERGENIC			
SNP_92380_A_55989	NW_004516544.1	scaffold1308	55989	AA	GG	GG	INTERGENIC			
SNP_92381_A_56463	NW_004516544.1	scaffold1308	56463	GG	AA	AA	INTERGENIC			
SNP_92382_A_57899	NW_004516544.1	scaffold1308	57899	TT	AA	AA	INTERGENIC			
SNP_92383_A_58920	NW_004516544.1	scaffold1308	58920	GG	AA	AA	INTERGENIC			
SNP_92384_A_58921	NW_004516544.1	scaffold1308	58921	AA	CC	CC	INTERGENIC			
SNP_92385_A_58924	NW_004516544.1	scaffold1308	58924	CC	AA	AA	INTERGENIC			
SNP_92386_A_59323	NW_004516544.1	scaffold1308	59323	GG	TT	TT	INTERGENIC			
SNP_92387_A_61883	NW_004516544.1	scaffold1308	61883	CC	TT	TT	INTERGENIC			
SNP_92388_A_65759	NW_004516544.1	scaffold1308	65759	AA	GG	GG	INTERGENIC			
SNP_92389_A_65820	NW_004516544.1	scaffold1308	65820	CC	AA	AA	INTERGENIC			
SNP_92390_A_78366	NW_004516544.1	scaffold1308	78366	AA	GG	GG	INTERGENIC			
SNP_92391_A_78385	NW_004516544.1	scaffold1308	78385	GG	CC	CC	INTERGENIC			
SNP_92392_A_78528	NW_004516544.1	scaffold1308	78528	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92393_A_83917	NW_004516544.1	scaffold1308	83917	AA	TT	TT	INTERGENIC			
SNP_92394_A_87209	NW_004516544.1	scaffold1308	87209	TT	CC	CC	INTERGENIC			
SNP_92395_A_87242	NW_004516544.1	scaffold1308	87242	GG	AA	AA	INTERGENIC			
SNP_92396_A_87521	NW_004516544.1	scaffold1308	87521	TT	GG	GG	INTERGENIC			
SNP_92397_A_87539	NW_004516544.1	scaffold1308	87539	AA	TT	TT	INTERGENIC			
SNP_92398_A_87649	NW_004516544.1	scaffold1308	87649	CC	GG	GG	INTERGENIC			
SNP_92399_A_87763	NW_004516544.1	scaffold1308	87763	TT	CC	CC	INTERGENIC			
SNP_92400_A_87795	NW_004516544.1	scaffold1308	87795	AA	CC	CC	INTERGENIC			
SNP_92401_A_87806	NW_004516544.1	scaffold1308	87806	AA	CC	CC	INTERGENIC			
SNP_92402_A_89232	NW_004516544.1	scaffold1308	89232	TT	CC	CC	INTERGENIC			
SNP_92403_A_89234	NW_004516544.1	scaffold1308	89234	TT	AA	AA	INTERGENIC			
SNP_92404_A_90511	NW_004516544.1	scaffold1308	90511	TT	CC	CC	INTERGENIC			
SNP_92405_A_90513	NW_004516544.1	scaffold1308	90513	GG	TT	TT	INTERGENIC			
SNP_92406_A_94360	NW_004516544.1	scaffold1308	94360	CC	AA	AA	INTERGENIC			
SNP_92407_A_94596	NW_004516544.1	scaffold1308	94596	TT	GG	GG	INTERGENIC			
SNP_92408_A_94807	NW_004516544.1	scaffold1308	94807	GG	CC	CC	INTERGENIC			
SNP_92409_A_97100	NW_004516544.1	scaffold1308	97100	CC	AA	AA	INTERGENIC			
SNP_92410_A_97116	NW_004516544.1	scaffold1308	97116	TT	CC	CC	INTERGENIC			
SNP_92411_A_97117	NW_004516544.1	scaffold1308	97117	GG	AA	AA	INTERGENIC			
SNP_92412_A_97120	NW_004516544.1	scaffold1308	97120	GG	AA	AA	INTERGENIC			
SNP_92413_A_97151	NW_004516544.1	scaffold1308	97151	TT	CC	CC	INTERGENIC			
SNP_92414_A_97178	NW_004516544.1	scaffold1308	97178	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92415_A_97675	NW_004516544.1	scaffold1308	97675	TT	AA	AA	INTERGENIC			
SNP_92416_A_97897	NW_004516544.1	scaffold1308	97897	TT	GG	GG	INTERGENIC			
SNP_92417_A_98002	NW_004516544.1	scaffold1308	98002	CC	GG	GG	INTERGENIC			
SNP_92418_A_98007	NW_004516544.1	scaffold1308	98007	TT	AA	AA	INTERGENIC			
SNP_92419_A_98104	NW_004516544.1	scaffold1308	98104	CC	TT	TT	INTERGENIC			
SNP_92421_A_22169	NW_004516545.1	scaffold1309	22169	TT	GG	GG	INTERGENIC			
SNP_92422_A_26763	NW_004516545.1	scaffold1309	26763	CC	TT	TT	INTERGENIC			
SNP_92423_A_26766	NW_004516545.1	scaffold1309	26766	CC	AA	AA	INTERGENIC			
SNP_92424_A_30046	NW_004516545.1	scaffold1309	30046	TT	GG	GG	INTERGENIC			
SNP_92425_A_36114	NW_004516545.1	scaffold1309	36114	TT	CC	CC	INTERGENIC			
SNP_92426_A_36274	NW_004516545.1	scaffold1309	36274	TT	AA	AA	INTERGENIC			
SNP_92427_A_36298	NW_004516545.1	scaffold1309	36298	AA	GG	GG	INTERGENIC			
SNP_92428_A_36339	NW_004516545.1	scaffold1309	36339	AA	TT	TT	INTERGENIC			
SNP_92429_A_36373	NW_004516545.1	scaffold1309	36373	TT	AA	AA	INTERGENIC			
SNP_92430_A_36390	NW_004516545.1	scaffold1309	36390	AA	GG	GG	INTERGENIC			
SNP_92431_A_40127	NW_004516545.1	scaffold1309	40127	AA	CC	CC	INTERGENIC			
SNP_92432_A_46951	NW_004516545.1	scaffold1309	46951	GG	AA	AA	INTERGENIC			
SNP_92433_A_48917	NW_004516545.1	scaffold1309	48917	CC	TT	TT	INTERGENIC			
SNP_92434_A_49518	NW_004516545.1	scaffold1309	49518	GG	TT	TT	INTERGENIC			
SNP_92436_A_50267	NW_004516545.1	scaffold1309	50267	TT	GG	GG	INTERGENIC			
SNP_92438_A_50888	NW_004516545.1	scaffold1309	50888	GG	TT	TT	INTERGENIC			
SNP_92439_A_51035	NW_004516545.1	scaffold1309	51035	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92440_A_51177	NW_004516545.1	scaffold1309	51177	GG	AA	AA	INTERGENIC		
SNP_92441_A_56616	NW_004516545.1	scaffold1309	56616	CC	TT	TT	INTERGENIC		
SNP_92442_A_57218	NW_004516545.1	scaffold1309	57218	CC	GG	GG	INTERGENIC		
SNP_92443_A_57248	NW_004516545.1	scaffold1309	57248	AA	GG	GG	INTERGENIC		
SNP_92444_A_57455	NW_004516545.1	scaffold1309	57455	GG	AA	AA	INTERGENIC		
SNP_92445_A_57521	NW_004516545.1	scaffold1309	57521	CC	TT	TT	INTERGENIC		
SNP_92446_A_57534	NW_004516545.1	scaffold1309	57534	AA	GG	GG	INTERGENIC		
SNP_92447_A_57535	NW_004516545.1	scaffold1309	57535	TT	GG	GG	INTERGENIC		
SNP_92449_A_58063	NW_004516545.1	scaffold1309	58063	CC	TT	TT	INTERGENIC		
SNP_92452_A_88860	NW_004516545.1	scaffold1309	88860	TT	AA	AA	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92453_A_89142	NW_004516545.1	scaffold1309	89142	TT	CC	CC	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92454_A_89154	NW_004516545.1	scaffold1309	89154	AA	GG	GG	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92455_A_89427	NW_004516545.1	scaffold1309	89427	CC	AA	AA	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92456_A_89808	NW_004516545.1	scaffold1309	89808	AA	GG	GG	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92457_A_90176	NW_004516545.1	scaffold1309	90176	TT	CC	CC	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92458_A_90254	NW_004516545.1	scaffold1309	90254	GG	AA	AA	URR	101495216	glycine-rich cell wall structural protein 1.8-like
SNP_92459_A_90637	NW_004516545.1	scaffold1309	90637	GG	TT	TT	INTERGENIC		
SNP_92460_A_94677	NW_004516545.1	scaffold1309	94677	GG	AA	AA	INTRON	id211118	Unknown function
SNP_92461_A_94698	NW_004516545.1	scaffold1309	94698	TT	CC	CC	INTRON	id211118	Unknown function
SNP_92462_A_6111	NW_004516547.1	scaffold1312	6111	CC	TT	TT	INTERGENIC		
SNP_92463_A_52707	NW_004516547.1	scaffold1312	52707	TT	GG	GG	INTERGENIC		
SNP_92464_A_58766	NW_004516547.1	scaffold1312	58766	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92465_A_62692	NW_004516547.1	scaffold1312	62692	TT	CC	CC	INTERGENIC			
SNP_92466_A_62703	NW_004516547.1	scaffold1312	62703	TT	GG	GG	INTERGENIC			
SNP_92467_A_64264	NW_004516547.1	scaffold1312	64264	AA	TT	TT	INTERGENIC			
SNP_92468_A_64919	NW_004516547.1	scaffold1312	64919	TT	GG	GG	INTERGENIC			
SNP_92469_A_64994	NW_004516547.1	scaffold1312	64994	CC	GG	GG	INTERGENIC			
SNP_92470_A_64995	NW_004516547.1	scaffold1312	64995	GG	CC	CC	INTERGENIC			
SNP_92471_A_65136	NW_004516547.1	scaffold1312	65136	GG	AA	AA	INTERGENIC			
SNP_92472_A_65599	NW_004516547.1	scaffold1312	65599	TT	CC	CC	INTERGENIC			
SNP_92473_A_65658	NW_004516547.1	scaffold1312	65658	TT	CC	CC	INTERGENIC			
SNP_92474_A_66031	NW_004516547.1	scaffold1312	66031	CC	TT	TT	INTERGENIC			
SNP_92475_A_66606	NW_004516547.1	scaffold1312	66606	AA	GG	GG	INTERGENIC			
SNP_92476_A_67119	NW_004516547.1	scaffold1312	67119	AA	CC	CC	INTERGENIC			
SNP_92477_A_68527	NW_004516547.1	scaffold1312	68527	GG	AA	AA	INTERGENIC			
SNP_92478_A_69466	NW_004516547.1	scaffold1312	69466	GG	CC	CC	INTERGENIC			
SNP_92480_A_71707	NW_004516547.1	scaffold1312	71707	TT	CC	CC	INTERGENIC			
SNP_92481_A_72077	NW_004516547.1	scaffold1312	72077	CC	TT	TT	INTERGENIC			
SNP_92482_A_73979	NW_004516547.1	scaffold1312	73979	AA	CC	CC	INTERGENIC			
SNP_92483_A_74961	NW_004516547.1	scaffold1312	74961	GG	AA	AA	INTERGENIC			
SNP_92484_A_75105	NW_004516547.1	scaffold1312	75105	AA	GG	GG	INTERGENIC			
SNP_92485_A_75340	NW_004516547.1	scaffold1312	75340	GG	AA	AA	INTERGENIC			
SNP_92486_A_75346	NW_004516547.1	scaffold1312	75346	AA	GG	GG	INTERGENIC			
SNP_92487_A_75462	NW_004516547.1	scaffold1312	75462	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92488_A_75568	NW_004516547.1	scaffold1312	75568	CC	TT	TT	INTERGENIC			
SNP_92489_A_75581	NW_004516547.1	scaffold1312	75581	AA	TT	TT	INTERGENIC			
SNP_92490_A_76281	NW_004516547.1	scaffold1312	76281	GG	AA	AA	INTERGENIC			
SNP_92491_A_76652	NW_004516547.1	scaffold1312	76652	CC	TT	TT	INTERGENIC			
SNP_92492_A_78435	NW_004516547.1	scaffold1312	78435	GG	AA	AA	INTERGENIC			
SNP_92494_A_78625	NW_004516547.1	scaffold1312	78625	AA	TT	TT	INTERGENIC			
SNP_92495_A_78629	NW_004516547.1	scaffold1312	78629	AA	GG	GG	INTERGENIC			
SNP_92497_A_78775	NW_004516547.1	scaffold1312	78775	GG	AA	AA	INTERGENIC			
SNP_92501_A_78980	NW_004516547.1	scaffold1312	78980	TT	CC	CC	INTERGENIC			
SNP_92502_A_79107	NW_004516547.1	scaffold1312	79107	GG	AA	AA	INTERGENIC			
SNP_92503_A_79124	NW_004516547.1	scaffold1312	79124	TT	CC	CC	INTERGENIC			
SNP_92504_A_79155	NW_004516547.1	scaffold1312	79155	CC	TT	TT	INTERGENIC			
SNP_92505_A_79226	NW_004516547.1	scaffold1312	79226	AA	TT	TT	INTERGENIC			
SNP_92506_A_79260	NW_004516547.1	scaffold1312	79260	TT	CC	CC	INTERGENIC			
SNP_92507_A_79280	NW_004516547.1	scaffold1312	79280	GG	TT	TT	INTERGENIC			
SNP_92508_A_79493	NW_004516547.1	scaffold1312	79493	TT	CC	CC	INTERGENIC			
SNP_92509_A_79666	NW_004516547.1	scaffold1312	79666	GG	AA	AA	INTERGENIC			
SNP_92510_A_79682	NW_004516547.1	scaffold1312	79682	GG	AA	AA	INTERGENIC			
SNP_92511_A_79698	NW_004516547.1	scaffold1312	79698	CC	AA	AA	INTERGENIC			
SNP_92512_A_79733	NW_004516547.1	scaffold1312	79733	CC	AA	AA	INTERGENIC			
SNP_92513_A_79764	NW_004516547.1	scaffold1312	79764	CC	TT	TT	INTERGENIC			
SNP_92514_A_79824	NW_004516547.1	scaffold1312	79824	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92515_A_79842	NW_004516547.1	scaffold1312	79842	GG	AA	AA	INTERGENIC			
SNP_92516_A_79901	NW_004516547.1	scaffold1312	79901	CC	TT	TT	INTERGENIC			
SNP_92517_A_79959	NW_004516547.1	scaffold1312	79959	TT	CC	CC	INTERGENIC			
SNP_92518_A_80007	NW_004516547.1	scaffold1312	80007	CC	TT	TT	INTERGENIC			
SNP_92520_A_80061	NW_004516547.1	scaffold1312	80061	TT	GG	GG	INTERGENIC			
SNP_92521_A_80079	NW_004516547.1	scaffold1312	80079	TT	AA	AA	INTERGENIC			
SNP_92522_A_80259	NW_004516547.1	scaffold1312	80259	CC	AA	AA	INTERGENIC			
SNP_92523_A_80287	NW_004516547.1	scaffold1312	80287	AA	CC	CC	INTERGENIC			
SNP_92524_A_80350	NW_004516547.1	scaffold1312	80350	CC	TT	TT	INTERGENIC			
SNP_92525_A_80372	NW_004516547.1	scaffold1312	80372	GG	AA	AA	INTERGENIC			
SNP_92526_A_80394	NW_004516547.1	scaffold1312	80394	GG	AA	AA	INTERGENIC			
SNP_92527_A_80499	NW_004516547.1	scaffold1312	80499	AA	TT	TT	INTERGENIC			
SNP_92529_A_80593	NW_004516547.1	scaffold1312	80593	GG	AA	AA	INTERGENIC			
SNP_92530_A_80716	NW_004516547.1	scaffold1312	80716	AA	GG	GG	INTERGENIC			
SNP_92531_A_80833	NW_004516547.1	scaffold1312	80833	GG	AA	AA	INTERGENIC			
SNP_92532_A_80955	NW_004516547.1	scaffold1312	80955	TT	CC	CC	INTERGENIC			
SNP_92533_A_81003	NW_004516547.1	scaffold1312	81003	CC	TT	TT	INTERGENIC			
SNP_92534_A_81067	NW_004516547.1	scaffold1312	81067	AA	CC	CC	INTERGENIC			
SNP_92535_A_81081	NW_004516547.1	scaffold1312	81081	TT	CC	CC	INTERGENIC			
SNP_92537_A_81389	NW_004516547.1	scaffold1312	81389	TT	GG	GG	INTERGENIC			
SNP_92538_A_81450	NW_004516547.1	scaffold1312	81450	AA	GG	GG	INTERGENIC			
SNP_92539_A_81454	NW_004516547.1	scaffold1312	81454	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92540_A_81469	NW_004516547.1	scaffold1312	81469	TT	AA	AA	INTERGENIC			
SNP_92541_A_81590	NW_004516547.1	scaffold1312	81590	TT	CC	CC	INTERGENIC			
SNP_92542_A_81727	NW_004516547.1	scaffold1312	81727	AA	GG	GG	INTERGENIC			
SNP_92543_A_81751	NW_004516547.1	scaffold1312	81751	TT	CC	CC	INTERGENIC			
SNP_92544_A_81898	NW_004516547.1	scaffold1312	81898	AA	GG	GG	INTERGENIC			
SNP_92545_A_81979	NW_004516547.1	scaffold1312	81979	GG	TT	TT	INTERGENIC			
SNP_92546_A_82002	NW_004516547.1	scaffold1312	82002	GG	AA	AA	INTERGENIC			
SNP_92547_A_82003	NW_004516547.1	scaffold1312	82003	AA	GG	GG	INTERGENIC			
SNP_92548_A_82188	NW_004516547.1	scaffold1312	82188	GG	AA	AA	INTERGENIC			
SNP_92549_A_82276	NW_004516547.1	scaffold1312	82276	TT	CC	CC	INTERGENIC			
SNP_92550_A_82296	NW_004516547.1	scaffold1312	82296	CC	TT	TT	INTERGENIC			
SNP_92552_A_82356	NW_004516547.1	scaffold1312	82356	TT	CC	CC	INTERGENIC			
SNP_92553_A_82369	NW_004516547.1	scaffold1312	82369	GG	AA	AA	INTERGENIC			
SNP_92554_A_82416	NW_004516547.1	scaffold1312	82416	TT	AA	AA	INTERGENIC			
SNP_92555_A_82524	NW_004516547.1	scaffold1312	82524	AA	GG	GG	INTERGENIC			
SNP_92556_A_82525	NW_004516547.1	scaffold1312	82525	AA	CC	CC	INTERGENIC			
SNP_92557_A_82588	NW_004516547.1	scaffold1312	82588	CC	GG	GG	INTERGENIC			
SNP_92558_A_82616	NW_004516547.1	scaffold1312	82616	TT	CC	CC	INTERGENIC			
SNP_92559_A_82627	NW_004516547.1	scaffold1312	82627	CC	TT	TT	INTERGENIC			
SNP_92560_A_82637	NW_004516547.1	scaffold1312	82637	AA	TT	TT	INTERGENIC			
SNP_92561_A_82769	NW_004516547.1	scaffold1312	82769	AA	TT	TT	INTERGENIC			
SNP_92562_A_82845	NW_004516547.1	scaffold1312	82845	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92563_A_82959	NW_004516547.1	scaffold1312	82959	CC	AA	AA	INTERGENIC			
SNP_92564_A_83001	NW_004516547.1	scaffold1312	83001	AA	GG	GG	INTERGENIC			
SNP_92565_A_83177	NW_004516547.1	scaffold1312	83177	GG	AA	AA	INTERGENIC			
SNP_92567_A_83247	NW_004516547.1	scaffold1312	83247	CC	TT	TT	INTERGENIC			
SNP_92568_A_83302	NW_004516547.1	scaffold1312	83302	TT	CC	CC	INTERGENIC			
SNP_92569_A_83376	NW_004516547.1	scaffold1312	83376	CC	GG	GG	INTERGENIC			
SNP_92570_A_83429	NW_004516547.1	scaffold1312	83429	CC	GG	GG	INTERGENIC			
SNP_92571_A_83443	NW_004516547.1	scaffold1312	83443	CC	TT	TT	INTERGENIC			
SNP_92572_A_83449	NW_004516547.1	scaffold1312	83449	GG	AA	AA	INTERGENIC			
SNP_92573_A_83462	NW_004516547.1	scaffold1312	83462	TT	CC	CC	INTERGENIC			
SNP_92574_A_83463	NW_004516547.1	scaffold1312	83463	CC	TT	TT	INTERGENIC			
SNP_92575_A_83625	NW_004516547.1	scaffold1312	83625	TT	CC	CC	INTERGENIC			
SNP_92576_A_83633	NW_004516547.1	scaffold1312	83633	CC	AA	AA	INTERGENIC			
SNP_92577_A_86278	NW_004516547.1	scaffold1312	86278	GG	AA	AA	INTERGENIC			
SNP_92578_A_86291	NW_004516547.1	scaffold1312	86291	GG	TT	TT	INTERGENIC			
SNP_92579_A_86353	NW_004516547.1	scaffold1312	86353	AA	TT	TT	INTERGENIC			
SNP_92580_A_86363	NW_004516547.1	scaffold1312	86363	AA	GG	GG	INTERGENIC			
SNP_92581_A_86383	NW_004516547.1	scaffold1312	86383	GG	AA	AA	INTERGENIC			
SNP_92582_A_86432	NW_004516547.1	scaffold1312	86432	AA	GG	GG	INTERGENIC			
SNP_92583_A_86525	NW_004516547.1	scaffold1312	86525	AA	GG	GG	INTERGENIC			
SNP_92584_A_86738	NW_004516547.1	scaffold1312	86738	AA	TT	TT	INTERGENIC			
SNP_92585_A_86772	NW_004516547.1	scaffold1312	86772	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92586_A_86834	NW_004516547.1	scaffold1312	86834	CC	TT	TT	INTERGENIC			
SNP_92587_A_86843	NW_004516547.1	scaffold1312	86843	GG	AA	AA	INTERGENIC			
SNP_92588_A_86974	NW_004516547.1	scaffold1312	86974	GG	TT	TT	INTERGENIC			
SNP_92589_A_87071	NW_004516547.1	scaffold1312	87071	TT	GG	GG	INTERGENIC			
SNP_92590_A_87148	NW_004516547.1	scaffold1312	87148	GG	TT	TT	INTERGENIC			
SNP_92591_A_87208	NW_004516547.1	scaffold1312	87208	AA	CC	CC	INTERGENIC			
SNP_92592_A_87216	NW_004516547.1	scaffold1312	87216	TT	CC	CC	INTERGENIC			
SNP_92593_A_87401	NW_004516547.1	scaffold1312	87401	TT	AA	AA	INTERGENIC			
SNP_92594_A_87420	NW_004516547.1	scaffold1312	87420	TT	CC	CC	INTERGENIC			
SNP_92595_A_87451	NW_004516547.1	scaffold1312	87451	AA	GG	GG	INTERGENIC			
SNP_92596_A_87477	NW_004516547.1	scaffold1312	87477	CC	TT	TT	INTERGENIC			
SNP_92597_A_87550	NW_004516547.1	scaffold1312	87550	TT	AA	AA	INTERGENIC			
SNP_92598_A_87645	NW_004516547.1	scaffold1312	87645	GG	AA	AA	INTERGENIC			
SNP_92599_A_87750	NW_004516547.1	scaffold1312	87750	AA	GG	GG	INTERGENIC			
SNP_92600_A_87752	NW_004516547.1	scaffold1312	87752	GG	CC	CC	INTERGENIC			
SNP_92601_A_87807	NW_004516547.1	scaffold1312	87807	AA	GG	GG	INTERGENIC			
SNP_92602_A_87815	NW_004516547.1	scaffold1312	87815	GG	AA	AA	INTERGENIC			
SNP_92603_A_87845	NW_004516547.1	scaffold1312	87845	GG	TT	TT	INTERGENIC			
SNP_92604_A_87935	NW_004516547.1	scaffold1312	87935	CC	TT	TT	INTERGENIC			
SNP_92605_A_87953	NW_004516547.1	scaffold1312	87953	CC	AA	AA	INTERGENIC			
SNP_92606_A_88101	NW_004516547.1	scaffold1312	88101	CC	GG	GG	INTERGENIC			
SNP_92607_A_88605	NW_004516547.1	scaffold1312	88605	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92608_A_88809	NW_004516547.1	scaffold1312	88809	GG	TT	TT	INTERGENIC			
SNP_92609_A_88931	NW_004516547.1	scaffold1312	88931	TT	AA	AA	INTERGENIC			
SNP_92610_A_88944	NW_004516547.1	scaffold1312	88944	CC	TT	TT	INTERGENIC			
SNP_92611_A_89201	NW_004516547.1	scaffold1312	89201	AA	CC	CC	INTERGENIC			
SNP_92612_A_89333	NW_004516547.1	scaffold1312	89333	AA	GG	GG	INTERGENIC			
SNP_92613_A_89728	NW_004516547.1	scaffold1312	89728	GG	TT	TT	INTERGENIC			
SNP_92615_A_89847	NW_004516547.1	scaffold1312	89847	CC	AA	AA	INTERGENIC			
SNP_92616_A_89910	NW_004516547.1	scaffold1312	89910	AA	GG	GG	INTERGENIC			
SNP_92617_A_90078	NW_004516547.1	scaffold1312	90078	TT	CC	CC	INTERGENIC			
SNP_92618_A_92868	NW_004516547.1	scaffold1312	92868	TT	CC	CC	INTERGENIC			
SNP_92619_A_94554	NW_004516547.1	scaffold1312	94554	GG	TT	TT	INTERGENIC			
SNP_92620_A_95744	NW_004516547.1	scaffold1312	95744	AA	GG	GG	INTERGENIC			
SNP_92621_A_95843	NW_004516547.1	scaffold1312	95843	CC	TT	TT	INTERGENIC			
SNP_92622_A_95881	NW_004516547.1	scaffold1312	95881	GG	TT	TT	INTERGENIC			
SNP_92624_A_95925	NW_004516547.1	scaffold1312	95925	TT	AA	AA	INTERGENIC			
SNP_92625_A_95989	NW_004516547.1	scaffold1312	95989	AA	GG	GG	INTERGENIC			
SNP_92626_A_96428	NW_004516547.1	scaffold1312	96428	GG	CC	CC	INTERGENIC			
SNP_92627_A_96434	NW_004516547.1	scaffold1312	96434	GG	TT	TT	INTERGENIC			
SNP_92628_A_96804	NW_004516547.1	scaffold1312	96804	TT	AA	AA	INTERGENIC			
SNP_92629_A_1402	NW_004516548.1	scaffold1313	1402	TT	CC	CC	INTERGENIC			
SNP_92630_A_1774	NW_004516548.1	scaffold1313	1774	AA	GG	GG	INTERGENIC			
SNP_92631_A_1792	NW_004516548.1	scaffold1313	1792	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92632_A_43664	NW_004516548.1	scaffold1313	43664	CC	AA	AA	INTERGENIC			
SNP_92633_A_47165	NW_004516548.1	scaffold1313	47165	TT	CC	CC	INTERGENIC			
SNP_92634_A_59187	NW_004516548.1	scaffold1313	59187	TT	AA	AA	INTERGENIC			
SNP_92636_A_102564	NW_004516548.1	scaffold1313	102564	AA	GG	GG	INTERGENIC			
SNP_92637_A_103240	NW_004516548.1	scaffold1313	103240	TT	CC	CC	INTERGENIC			
SNP_92638_A_103650	NW_004516548.1	scaffold1313	103650	TT	AA	AA	INTERGENIC			
SNP_92639_A_103720	NW_004516548.1	scaffold1313	103720	AA	GG	GG	INTERGENIC			
SNP_92640_A_117825	NW_004516548.1	scaffold1313	117825	AA	GG	GG	INTERGENIC			
SNP_92641_A_117826	NW_004516548.1	scaffold1313	117826	TT	CC	CC	INTERGENIC			
SNP_92642_A_117884	NW_004516548.1	scaffold1313	117884	AA	GG	GG	INTERGENIC			
SNP_92643_A_117934	NW_004516548.1	scaffold1313	117934	TT	CC	CC	INTERGENIC			
SNP_92644_A_117941	NW_004516548.1	scaffold1313	117941	AA	GG	GG	INTERGENIC			
SNP_92645_A_117968	NW_004516548.1	scaffold1313	117968	CC	TT	TT	INTERGENIC			
SNP_92646_A_117977	NW_004516548.1	scaffold1313	117977	CC	AA	AA	INTERGENIC			
SNP_92647_A_120068	NW_004516548.1	scaffold1313	120068	CC	TT	TT	INTERGENIC			
SNP_92648_A_120069	NW_004516548.1	scaffold1313	120069	AA	CC	CC	INTERGENIC			
SNP_92649_A_120164	NW_004516548.1	scaffold1313	120164	TT	CC	CC	INTERGENIC			
SNP_92650_A_120408	NW_004516548.1	scaffold1313	120408	AA	GG	GG	INTERGENIC			
SNP_92651_A_120438	NW_004516548.1	scaffold1313	120438	TT	GG	GG	INTERGENIC			
SNP_92652_A_120453	NW_004516548.1	scaffold1313	120453	TT	CC	CC	INTERGENIC			
SNP_92653_A_123889	NW_004516548.1	scaffold1313	123889	AA	GG	GG	INTERGENIC			
SNP_92654_A_132461	NW_004516548.1	scaffold1313	132461	TT	AA	AA	URR	101496954	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92655_A_132556	NW_004516548.1	scaffold1313	132556	AA	CC	CC	URR	101496954	Unknown function
SNP_92656_A_132870	NW_004516548.1	scaffold1313	132870	AA	TT	TT	URR	101496954	Unknown function
SNP_92657_A_132874	NW_004516548.1	scaffold1313	132874	TT	CC	CC	URR	101496954	Unknown function
SNP_92658_A_133023	NW_004516548.1	scaffold1313	133023	TT	CC	CC	URR	101496954	Unknown function
SNP_92659_A_133549	NW_004516548.1	scaffold1313	133549	TT	GG	GG	URR	101496954	Unknown function
SNP_92660_A_133556	NW_004516548.1	scaffold1313	133556	TT	CC	CC	URR	101496954	Unknown function
SNP_92661_A_133561	NW_004516548.1	scaffold1313	133561	GG	CC	CC	URR	101496954	Unknown function
SNP_92662_A_133562	NW_004516548.1	scaffold1313	133562	AA	CC	CC	URR	101496954	Unknown function
SNP_92663_A_133746	NW_004516548.1	scaffold1313	133746	TT	CC	CC	URR	101496954	Unknown function
SNP_92664_A_133935	NW_004516548.1	scaffold1313	133935	TT	CC	CC	URR	101496954	Unknown function
SNP_92665_A_141532	NW_004516548.1	scaffold1313	141532	GG	CC	CC	INTERGENIC		
SNP_92666_A_151861	NW_004516548.1	scaffold1313	151861	GG	CC	CC	INTERGENIC		
SNP_92668_A_157563	NW_004516548.1	scaffold1313	157563	TT	CC	CC	INTRON	id211136	Unknown function
SNP_92669_A_157565	NW_004516548.1	scaffold1313	157565	TT	AA	AA	INTRON	id211136	Unknown function
SNP_92670_A_165018	NW_004516548.1	scaffold1313	165018	GG	TT	TT	INTERGENIC		
SNP_92671_A_165273	NW_004516548.1	scaffold1313	165273	TT	CC	CC	INTERGENIC		
SNP_92672_A_167243	NW_004516548.1	scaffold1313	167243	GG	TT	TT	INTERGENIC		
SNP_92673_A_167246	NW_004516548.1	scaffold1313	167246	TT	GG	GG	INTERGENIC		
SNP_92674_A_168044	NW_004516548.1	scaffold1313	168044	TT	GG	GG	INTERGENIC		
SNP_92675_A_168716	NW_004516548.1	scaffold1313	168716	CC	GG	GG	INTERGENIC		
SNP_92676_A_168790	NW_004516548.1	scaffold1313	168790	AA	CC	CC	INTERGENIC		
SNP_92677_A_168890	NW_004516548.1	scaffold1313	168890	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92678_A_168899	NW_004516548.1	scaffold1313	168899	AA	CC	CC	INTERGENIC			
SNP_92679_A_168928	NW_004516548.1	scaffold1313	168928	AA	CC	CC	INTERGENIC			
SNP_92680_A_168938	NW_004516548.1	scaffold1313	168938	GG	TT	TT	INTERGENIC			
SNP_92681_A_168950	NW_004516548.1	scaffold1313	168950	TT	CC	CC	INTERGENIC			
SNP_92682_A_177766	NW_004516548.1	scaffold1313	177766	TT	GG	GG	INTERGENIC			
SNP_92684_A_181818	NW_004516548.1	scaffold1313	181818	GG	TT	TT	INTERGENIC			
SNP_92685_A_197934	NW_004516548.1	scaffold1313	197934	TT	CC	CC	INTERGENIC			
SNP_92686_A_216636	NW_004516548.1	scaffold1313	216636	TT	GG	GG	INTERGENIC			
SNP_92687_A_216670	NW_004516548.1	scaffold1313	216670	CC	AA	AA	INTERGENIC			
SNP_92688_A_216965	NW_004516548.1	scaffold1313	216965	TT	GG	GG	INTERGENIC			
SNP_92689_A_346	NW_004516549.1	scaffold1314	346	CC	GG	GG	INTERGENIC			
SNP_92690_A_524	NW_004516549.1	scaffold1314	524	TT	GG	GG	INTERGENIC			
SNP_92691_A_618	NW_004516549.1	scaffold1314	618	TT	CC	GG	INTERGENIC			
SNP_92692_A_859	NW_004516549.1	scaffold1314	859	AA	TT	TT	INTERGENIC			
SNP_92693_A_12984	NW_004516550.1	scaffold1315	12984	CC	AA	AA	INTERGENIC			
SNP_92694_A_14487	NW_004516550.1	scaffold1315	14487	AA	GG	GG	INTERGENIC			
SNP_92695_A_14779	NW_004516550.1	scaffold1315	14779	GG	AA	AA	INTERGENIC			
SNP_92696_A_37528	NW_004516550.1	scaffold1315	37528	AA	GG	GG	INTERGENIC			
SNP_92697_A_37534	NW_004516550.1	scaffold1315	37534	CC	AA	AA	INTERGENIC			
SNP_92698_A_37536	NW_004516550.1	scaffold1315	37536	AA	GG	GG	INTERGENIC			
SNP_92699_A_37593	NW_004516550.1	scaffold1315	37593	TT	CC	CC	INTERGENIC			
SNP_92700_A_37817	NW_004516550.1	scaffold1315	37817	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92701_A_37942	NW_004516550.1	scaffold1315	37942	TT	AA	AA	INTERGENIC			
SNP_92702_A_63767	NW_004516550.1	scaffold1315	63767	AA	TT	TT	INTERGENIC			
SNP_92703_A_64121	NW_004516550.1	scaffold1315	64121	CC	TT	TT	INTERGENIC			
SNP_92704_A_64194	NW_004516550.1	scaffold1315	64194	GG	AA	AA	INTERGENIC			
SNP_92705_A_64227	NW_004516550.1	scaffold1315	64227	GG	AA	AA	INTERGENIC			
SNP_92706_A_64623	NW_004516550.1	scaffold1315	64623	TT	CC	CC	INTERGENIC			
SNP_92707_A_100921	NW_004516550.1	scaffold1315	100921	GG	TT	TT	INTERGENIC			
SNP_92708_A_108277	NW_004516550.1	scaffold1315	108277	TT	CC	CC	INTERGENIC			
SNP_92709_A_108974	NW_004516550.1	scaffold1315	108974	TT	CC	CC	INTERGENIC			
SNP_92711_A_114979	NW_004516550.1	scaffold1315	114979	TT	CC	CC	INTERGENIC			
SNP_92712_A_114983	NW_004516550.1	scaffold1315	114983	CC	TT	TT	INTERGENIC			
SNP_92713_A_115048	NW_004516550.1	scaffold1315	115048	CC	TT	TT	INTERGENIC			
SNP_92714_A_115057	NW_004516550.1	scaffold1315	115057	TT	CC	CC	INTERGENIC			
SNP_92716_A_115284	NW_004516550.1	scaffold1315	115284	CC	TT	TT	INTERGENIC			
SNP_92717_A_115305	NW_004516550.1	scaffold1315	115305	AA	TT	TT	INTERGENIC			
SNP_92718_A_120490	NW_004516550.1	scaffold1315	120490	GG	AA	AA	INTERGENIC			
SNP_92720_A_125228	NW_004516550.1	scaffold1315	125228	AA	GG	GG	INTERGENIC			
SNP_92721_A_125243	NW_004516550.1	scaffold1315	125243	TT	CC	CC	INTERGENIC			
SNP_92722_A_127137	NW_004516550.1	scaffold1315	127137	GG	TT	TT	INTERGENIC			
SNP_92723_A_127144	NW_004516550.1	scaffold1315	127144	GG	AA	AA	INTERGENIC			
SNP_92724_A_127678	NW_004516550.1	scaffold1315	127678	TT	GG	GG	INTERGENIC			
SNP_92725_A_128415	NW_004516550.1	scaffold1315	128415	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92726_A_140570	NW_004516550.1	scaffold1315	140570	CC	TT	TT	INTERGENIC		
SNP_92727_A_151243	NW_004516550.1	scaffold1315	151243	TT	GG	GG	URR	101497937	pentatricopeptide repeat-containing protein At1g12300, mitochondrial-like
SNP_92728_A_160144	NW_004516550.1	scaffold1315	160144	CC	TT	TT	DRR	101498261	pectinesterase/pectinesterase inhibitor-like
SNP_92729_A_163542	NW_004516550.1	scaffold1315	163542	CC	TT	TT	URR	101498261	pectinesterase/pectinesterase inhibitor-like
SNP_92730_A_163574	NW_004516550.1	scaffold1315	163574	GG	TT	TT	URR	101498261	pectinesterase/pectinesterase inhibitor-like
SNP_92731_A_163601	NW_004516550.1	scaffold1315	163601	CC	TT	TT	URR	101498261	pectinesterase/pectinesterase inhibitor-like
SNP_92732_A_169265	NW_004516550.1	scaffold1315	169265	TT	CC	CC	DRR	101498595	sugar carrier protein C-like
SNP_92733_A_169354	NW_004516550.1	scaffold1315	169354	CC	TT	TT	DRR	101498595	sugar carrier protein C-like
SNP_92734_A_169467	NW_004516550.1	scaffold1315	169467	CC	AA	AA	DRR	101498595	sugar carrier protein C-like
SNP_92735_A_169468	NW_004516550.1	scaffold1315	169468	AA	TT	TT	DRR	101498595	sugar carrier protein C-like
SNP_92737_A_181360	NW_004516550.1	scaffold1315	181360	CC	TT	TT	INTERGENIC		
SNP_92738_A_181811	NW_004516550.1	scaffold1315	181811	TT	AA	AA	INTERGENIC		
SNP_92739_A_3852	NW_004516551.1	scaffold1316	3852	TT	CC	CC	INTERGENIC		
SNP_92741_A_8009	NW_004516551.1	scaffold1316	8009	CC	TT	TT	INTERGENIC		
SNP_92742_A_8402	NW_004516551.1	scaffold1316	8402	AA	TT	TT	INTERGENIC		
SNP_92743_A_8686	NW_004516551.1	scaffold1316	8686	TT	CC	CC	INTERGENIC		
SNP_92744_A_8972	NW_004516551.1	scaffold1316	8972	CC	TT	TT	INTERGENIC		
SNP_92745_A_9928	NW_004516551.1	scaffold1316	9928	AA	GG	GG	INTERGENIC		
SNP_92746_A_9992	NW_004516551.1	scaffold1316	9992	TT	CC	CC	INTERGENIC		
SNP_92747_A_9995	NW_004516551.1	scaffold1316	9995	AA	GG	GG	INTERGENIC		
SNP_92748_A_10268	NW_004516551.1	scaffold1316	10268	AA	TT	TT	INTERGENIC		
SNP_92749_A_10484	NW_004516551.1	scaffold1316	10484	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92750_A_10604	NW_004516551.1	scaffold1316	10604	TT	GG	GG	INTERGENIC		
SNP_92751_A_10614	NW_004516551.1	scaffold1316	10614	AA	GG	GG	INTERGENIC		
SNP_92752_A_11140	NW_004516551.1	scaffold1316	11140	AA	TT	TT	INTERGENIC		
SNP_92753_A_12837	NW_004516551.1	scaffold1316	12837	CC	GG	GG	INTERGENIC		
SNP_92754_A_12999	NW_004516551.1	scaffold1316	12999	AA	CC	CC	INTERGENIC		
SNP_92756_A_10447	NW_004516552.1	scaffold1317	10447	AA	TT	TT	INTERGENIC		
SNP_92757_A_11951	NW_004516552.1	scaffold1317	11951	AA	GG	GG	INTERGENIC		
SNP_92758_A_20404	NW_004516552.1	scaffold1317	20404	AA	GG	GG	INTERGENIC		
SNP_92759_A_20476	NW_004516552.1	scaffold1317	20476	AA	CC	CC	INTERGENIC		
SNP_92760_A_44305	NW_004516552.1	scaffold1317	44305	TT	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92761_A_44373	NW_004516552.1	scaffold1317	44373	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92762_A_44390	NW_004516552.1	scaffold1317	44390	GG	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92763_A_44523	NW_004516552.1	scaffold1317	44523	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92764_A_44527	NW_004516552.1	scaffold1317	44527	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92765_A_44575	NW_004516552.1	scaffold1317	44575	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92766_A_44624	NW_004516552.1	scaffold1317	44624	GG	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92767_A_44668	NW_004516552.1	scaffold1317	44668	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92768_A_44678	NW_004516552.1	scaffold1317	44678	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92769_A_44748	NW_004516552.1	scaffold1317	44748	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92770_A_44787	NW_004516552.1	scaffold1317	44787	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92771_A_44802	NW_004516552.1	scaffold1317	44802	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92772_A_44832	NW_004516552.1	scaffold1317	44832	TT	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92773_A_44904	NW_004516552.1	scaffold1317	44904	TT	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92774_A_44951	NW_004516552.1	scaffold1317	44951	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92775_A_44952	NW_004516552.1	scaffold1317	44952	CC	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92776_A_45067	NW_004516552.1	scaffold1317	45067	GG	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92777_A_45142	NW_004516552.1	scaffold1317	45142	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92778_A_45223	NW_004516552.1	scaffold1317	45223	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92779_A_45245	NW_004516552.1	scaffold1317	45245	GG	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92780_A_45261	NW_004516552.1	scaffold1317	45261	GG	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92781_A_45266	NW_004516552.1	scaffold1317	45266	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92782_A_45283	NW_004516552.1	scaffold1317	45283	AA	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92783_A_45304	NW_004516552.1	scaffold1317	45304	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92784_A_45416	NW_004516552.1	scaffold1317	45416	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92785_A_45457	NW_004516552.1	scaffold1317	45457	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92786_A_45561	NW_004516552.1	scaffold1317	45561	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92787_A_46041	NW_004516552.1	scaffold1317	46041	TT	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92788_A_46237	NW_004516552.1	scaffold1317	46237	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92790_A_46307	NW_004516552.1	scaffold1317	46307	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92791_A_46417	NW_004516552.1	scaffold1317	46417	TT	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92792_A_46455	NW_004516552.1	scaffold1317	46455	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92793_A_46483	NW_004516552.1	scaffold1317	46483	AA	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92794_A_46489	NW_004516552.1	scaffold1317	46489	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92795_A_46550	NW_004516552.1	scaffold1317	46550	GG	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92796_A_46551	NW_004516552.1	scaffold1317	46551	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92797_A_46553	NW_004516552.1	scaffold1317	46553	TT	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92798_A_46567	NW_004516552.1	scaffold1317	46567	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92799_A_46621	NW_004516552.1	scaffold1317	46621	TT	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92800_A_59382	NW_004516552.1	scaffold1317	59382	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92801_A_59708	NW_004516552.1	scaffold1317	59708	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92803_A_59899	NW_004516552.1	scaffold1317	59899	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92804_A_59928	NW_004516552.1	scaffold1317	59928	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92805_A_63283	NW_004516552.1	scaffold1317	63283	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92806_A_63289	NW_004516552.1	scaffold1317	63289	AA	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92807_A_63297	NW_004516552.1	scaffold1317	63297	AA	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92808_A_63316	NW_004516552.1	scaffold1317	63316	CC	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92809_A_63335	NW_004516552.1	scaffold1317	63335	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92810_A_63369	NW_004516552.1	scaffold1317	63369	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92811_A_63406	NW_004516552.1	scaffold1317	63406	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92812_A_63420	NW_004516552.1	scaffold1317	63420	CC	GG	GG	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92813_A_63454	NW_004516552.1	scaffold1317	63454	GG	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92814_A_63590	NW_004516552.1	scaffold1317	63590	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92815_A_63593	NW_004516552.1	scaffold1317	63593	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92816_A_63595	NW_004516552.1	scaffold1317	63595	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92817_A_63603	NW_004516552.1	scaffold1317	63603	GG	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92818_A_63658	NW_004516552.1	scaffold1317	63658	TT	AA	AA	INTRON	101499867	probable CCR4-associated factor 1 homolog 11

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92820_A_63720	NW_004516552.1	scaffold1317	63720	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92821_A_63814	NW_004516552.1	scaffold1317	63814	AA	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92822_A_63872	NW_004516552.1	scaffold1317	63872	CC	TT	TT	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92823_A_63901	NW_004516552.1	scaffold1317	63901	TT	CC	CC	INTRON	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92824_A_66085	NW_004516552.1	scaffold1317	66085	TT	CC	CC	NON_SYNONYMOUS_CODING	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92825_A_66093	NW_004516552.1	scaffold1317	66093	AA	GG	GG	SYNONYMOUS_CODING	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92826_A_66599	NW_004516552.1	scaffold1317	66599	AA	GG	GG	STOP_LOST	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92827_A_66704	NW_004516552.1	scaffold1317	66704	CC	AA	AA	STOP_GAINED	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92828_A_66713	NW_004516552.1	scaffold1317	66713	GG	AA	AA	SYNONYMOUS_CODING	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92829_A_68072	NW_004516552.1	scaffold1317	68072	GG	CC	CC	URR	101499867	probable CCR4-associated factor 1 homolog 11
SNP_92830_A_69277	NW_004516552.1	scaffold1317	69277	AA	TT	TT	INTERGENIC		
SNP_92832_A_69475	NW_004516552.1	scaffold1317	69475	CC	TT	TT	INTERGENIC		
SNP_92833_A_69631	NW_004516552.1	scaffold1317	69631	AA	CC	CC	INTERGENIC		
SNP_92834_A_72852	NW_004516552.1	scaffold1317	72852	AA	GG	GG	INTERGENIC		
SNP_92835_A_73698	NW_004516552.1	scaffold1317	73698	GG	AA	AA	INTERGENIC		
SNP_92836_A_425	NW_004516554.1	scaffold1320	425	TT	GG	GG	INTERGENIC		
SNP_92837_A_454	NW_004516554.1	scaffold1320	454	TT	GG	GG	INTERGENIC		
SNP_92838_A_660	NW_004516554.1	scaffold1320	660	AA	CC	CC	INTERGENIC		
SNP_92839_A_1029	NW_004516554.1	scaffold1320	1029	AA	TT	TT	INTERGENIC		
SNP_92840_A_1187	NW_004516554.1	scaffold1320	1187	AA	GG	GG	INTERGENIC		
SNP_92841_A_17016	NW_004516554.1	scaffold1320	17016	TT	AA	AA	INTERGENIC		
SNP_92842_A_17017	NW_004516554.1	scaffold1320	17017	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92843_A_17259	NW_004516554.1	scaffold1320	17259	GG	AA	AA	INTERGENIC			
SNP_92844_A_27349	NW_004516554.1	scaffold1320	27349	GG	TT	TT	INTERGENIC			
SNP_92845_A_2515	NW_004516555.1	scaffold1321	2515	AA	TT	TT	INTERGENIC			
SNP_92846_A_913	NW_004516556.1	scaffold1322	913	TT	AA	AA	INTERGENIC			
SNP_92847_A_8807	NW_004516556.1	scaffold1322	8807	TT	AA	AA	INTERGENIC			
SNP_92848_A_9201	NW_004516556.1	scaffold1322	9201	GG	TT	TT	INTERGENIC			
SNP_92849_A_9435	NW_004516556.1	scaffold1322	9435	TT	AA	AA	INTERGENIC			
SNP_92850_A_9711	NW_004516556.1	scaffold1322	9711	TT	CC	CC	INTERGENIC			
SNP_92852_A_9873	NW_004516556.1	scaffold1322	9873	TT	AA	AA	INTERGENIC			
SNP_92853_A_9875	NW_004516556.1	scaffold1322	9875	CC	TT	TT	INTERGENIC			
SNP_92854_A_9936	NW_004516556.1	scaffold1322	9936	TT	AA	AA	INTERGENIC			
SNP_92855_A_9990	NW_004516556.1	scaffold1322	9990	TT	AA	AA	INTERGENIC			
SNP_92856_A_6055	NW_004516557.1	scaffold1323	6055	AA	GG	GG	INTERGENIC			
SNP_92857_A_6070	NW_004516557.1	scaffold1323	6070	TT	AA	AA	INTERGENIC			
SNP_92858_A_6194	NW_004516557.1	scaffold1323	6194	GG	TT	TT	INTERGENIC			
SNP_92859_A_6195	NW_004516557.1	scaffold1323	6195	GG	AA	AA	INTERGENIC			
SNP_92860_A_6231	NW_004516557.1	scaffold1323	6231	CC	TT	TT	INTERGENIC			
SNP_92861_A_6238	NW_004516557.1	scaffold1323	6238	CC	TT	TT	INTERGENIC			
SNP_92862_A_6558	NW_004516557.1	scaffold1323	6558	AA	GG	GG	INTERGENIC			
SNP_92864_A_7366	NW_004516558.1	scaffold1324	7366	AA	TT	TT	INTERGENIC			
SNP_92865_A_7384	NW_004516558.1	scaffold1324	7384	TT	GG	GG	INTERGENIC			
SNP_92866_A_7404	NW_004516558.1	scaffold1324	7404	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92867_A_7409	NW_004516558.1	scaffold1324	7409	AA	CC	CC	INTERGENIC			
SNP_92868_A_7437	NW_004516558.1	scaffold1324	7437	AA	GG	GG	INTERGENIC			
SNP_92869_A_7623	NW_004516558.1	scaffold1324	7623	AA	CC	CC	INTERGENIC			
SNP_92870_A_7924	NW_004516558.1	scaffold1324	7924	CC	TT	TT	INTERGENIC			
SNP_92871_A_7966	NW_004516558.1	scaffold1324	7966	GG	TT	TT	INTERGENIC			
SNP_92872_A_7982	NW_004516558.1	scaffold1324	7982	GG	AA	AA	INTERGENIC			
SNP_92873_A_8025	NW_004516558.1	scaffold1324	8025	GG	AA	AA	INTERGENIC			
SNP_92874_A_8044	NW_004516558.1	scaffold1324	8044	AA	GG	GG	INTERGENIC			
SNP_92875_A_8085	NW_004516558.1	scaffold1324	8085	AA	CC	CC	INTERGENIC			
SNP_92876_A_8088	NW_004516558.1	scaffold1324	8088	GG	TT	TT	INTERGENIC			
SNP_92877_A_8141	NW_004516558.1	scaffold1324	8141	CC	TT	TT	INTERGENIC			
SNP_92878_A_8147	NW_004516558.1	scaffold1324	8147	CC	TT	TT	INTERGENIC			
SNP_92879_A_8163	NW_004516558.1	scaffold1324	8163	TT	CC	CC	INTERGENIC			
SNP_92880_A_8178	NW_004516558.1	scaffold1324	8178	GG	TT	TT	INTERGENIC			
SNP_92881_A_8192	NW_004516558.1	scaffold1324	8192	AA	TT	TT	INTERGENIC			
SNP_92882_A_8195	NW_004516558.1	scaffold1324	8195	AA	TT	TT	INTERGENIC			
SNP_92883_A_8231	NW_004516558.1	scaffold1324	8231	CC	AA	AA	INTERGENIC			
SNP_92884_A_8232	NW_004516558.1	scaffold1324	8232	GG	AA	AA	INTERGENIC			
SNP_92885_A_8259	NW_004516558.1	scaffold1324	8259	AA	GG	GG	INTERGENIC			
SNP_92886_A_8415	NW_004516558.1	scaffold1324	8415	TT	GG	GG	INTERGENIC			
SNP_92887_A_8417	NW_004516558.1	scaffold1324	8417	TT	CC	CC	INTERGENIC			
SNP_92888_A_8421	NW_004516558.1	scaffold1324	8421	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92889_A_8459	NW_004516558.1	scaffold1324	8459	CC	TT	TT	INTERGENIC		
SNP_92891_A_40116	NW_004516558.1	scaffold1324	40116	TT	AA	AA	INTERGENIC		
SNP_92893_A_49572	NW_004516558.1	scaffold1324	49572	GG	AA	AA	URR	101500516	UPF0329 protein ECU05_1680/ECU11_0050-like
SNP_92894_A_49635	NW_004516558.1	scaffold1324	49635	AA	TT	TT	URR	101500516	UPF0329 protein ECU05_1680/ECU11_0050-like
SNP_92895_A_50011	NW_004516558.1	scaffold1324	50011	AA	TT	TT	URR	101500516	UPF0329 protein ECU05_1680/ECU11_0050-like
SNP_92896_A_53850	NW_004516558.1	scaffold1324	53850	GG	AA	AA	INTERGENIC		
SNP_92898_A_90980	NW_004516558.1	scaffold1324	90980	TT	GG	GG	INTERGENIC		
SNP_92900_A_109842	NW_004516558.1	scaffold1324	109842	TT	GG	GG	INTERGENIC		
SNP_92901_A_110283	NW_004516558.1	scaffold1324	110283	GG	AA	AA	INTERGENIC		
SNP_92902_A_110369	NW_004516558.1	scaffold1324	110369	TT	CC	CC	INTERGENIC		
SNP_92903_A_110426	NW_004516558.1	scaffold1324	110426	AA	GG	GG	INTERGENIC		
SNP_92905_A_110722	NW_004516558.1	scaffold1324	110722	AA	CC	CC	INTERGENIC		
SNP_92906_A_110759	NW_004516558.1	scaffold1324	110759	TT	AA	AA	INTERGENIC		
SNP_92907_A_110808	NW_004516558.1	scaffold1324	110808	AA	GG	GG	INTERGENIC		
SNP_92908_A_118959	NW_004516558.1	scaffold1324	118959	TT	GG	GG	INTERGENIC		
SNP_92909_A_118992	NW_004516558.1	scaffold1324	118992	AA	GG	GG	INTERGENIC		
SNP_92910_A_173988	NW_004516558.1	scaffold1324	173988	AA	TT	TT	URR	101502742	chaperone protein dnaJ 6-like
SNP_92911_A_174252	NW_004516558.1	scaffold1324	174252	AA	GG	GG	URR	101502742	chaperone protein dnaJ 6-like
SNP_92912_A_190199	NW_004516558.1	scaffold1324	190199	TT	GG	GG	INTERGENIC		
SNP_92914_A_219371	NW_004516558.1	scaffold1324	219371	CC	AA	AA	INTERGENIC		
SNP_92915_A_219384	NW_004516558.1	scaffold1324	219384	CC	TT	TT	INTERGENIC		
SNP_92916_A_219401	NW_004516558.1	scaffold1324	219401	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92917_A_219430	NW_004516558.1	scaffold1324	219430	AA	GG	GG	INTERGENIC			
SNP_92918_A_219706	NW_004516558.1	scaffold1324	219706	GG	TT	TT	INTERGENIC			
SNP_92919_A_219881	NW_004516558.1	scaffold1324	219881	AA	GG	GG	INTERGENIC			
SNP_92920_A_219913	NW_004516558.1	scaffold1324	219913	AA	CC	CC	INTERGENIC			
SNP_92921_A_219934	NW_004516558.1	scaffold1324	219934	CC	AA	AA	INTERGENIC			
SNP_92922_A_219958	NW_004516558.1	scaffold1324	219958	GG	AA	AA	INTERGENIC			
SNP_92923_A_219962	NW_004516558.1	scaffold1324	219962	TT	AA	AA	INTERGENIC			
SNP_92924_A_220828	NW_004516558.1	scaffold1324	220828	AA	GG	GG	INTERGENIC			
SNP_92925_A_220867	NW_004516558.1	scaffold1324	220867	TT	AA	AA	INTERGENIC			
SNP_92926_A_225149	NW_004516558.1	scaffold1324	225149	CC	TT	TT	INTERGENIC			
SNP_92927_A_226975	NW_004516558.1	scaffold1324	226975	AA	GG	GG	INTERGENIC			
SNP_92928_A_226980	NW_004516558.1	scaffold1324	226980	AA	GG	GG	INTERGENIC			
SNP_92929_A_227036	NW_004516558.1	scaffold1324	227036	GG	AA	AA	INTERGENIC			
SNP_92930_A_227049	NW_004516558.1	scaffold1324	227049	TT	CC	CC	INTERGENIC			
SNP_92931_A_227067	NW_004516558.1	scaffold1324	227067	GG	AA	AA	INTERGENIC			
SNP_92932_A_227312	NW_004516558.1	scaffold1324	227312	AA	GG	GG	INTERGENIC			
SNP_92934_A_227409	NW_004516558.1	scaffold1324	227409	TT	GG	GG	INTERGENIC			
SNP_92935_A_227425	NW_004516558.1	scaffold1324	227425	AA	CC	CC	INTERGENIC			
SNP_92936_A_227535	NW_004516558.1	scaffold1324	227535	TT	AA	AA	INTERGENIC			
SNP_92937_A_227536	NW_004516558.1	scaffold1324	227536	GG	TT	TT	INTERGENIC			
SNP_92938_A_227664	NW_004516558.1	scaffold1324	227664	GG	AA	AA	INTERGENIC			
SNP_92939_A_227843	NW_004516558.1	scaffold1324	227843	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_92940_A_227893	NW_004516558.1	scaffold1324	227893	CC	TT	TT	INTERGENIC		
SNP_92941_A_227964	NW_004516558.1	scaffold1324	227964	GG	AA	AA	INTERGENIC		
SNP_92942_A_227978	NW_004516558.1	scaffold1324	227978	TT	AA	AA	INTERGENIC		
SNP_92943_A_228159	NW_004516558.1	scaffold1324	228159	AA	CC	CC	INTERGENIC		
SNP_92944_A_228328	NW_004516558.1	scaffold1324	228328	TT	GG	GG	DRR	101503387	Unknown function
SNP_92945_A_228459	NW_004516558.1	scaffold1324	228459	AA	TT	TT	DRR	101503387	Unknown function
SNP_92946_A_228536	NW_004516558.1	scaffold1324	228536	CC	AA	AA	DRR	101503387	Unknown function
SNP_92947_A_228548	NW_004516558.1	scaffold1324	228548	AA	TT	TT	DRR	101503387	Unknown function
SNP_92948_A_228679	NW_004516558.1	scaffold1324	228679	AA	GG	GG	DRR	101503387	Unknown function
SNP_92949_A_228793	NW_004516558.1	scaffold1324	228793	GG	AA	AA	DRR	101503387	Unknown function
SNP_92950_A_228868	NW_004516558.1	scaffold1324	228868	AA	GG	GG	DRR	101503387	Unknown function
SNP_92951_A_229565	NW_004516558.1	scaffold1324	229565	CC	TT	TT	NON_SYNONYMOUS_CODING	id211251	Unknown function
SNP_92952_A_234817	NW_004516558.1	scaffold1324	234817	CC	TT	TT	INTERGENIC		
SNP_92953_A_234985	NW_004516558.1	scaffold1324	234985	GG	CC	CC	INTERGENIC		
SNP_92955_A_235263	NW_004516558.1	scaffold1324	235263	CC	TT	TT	INTERGENIC		
SNP_92956_A_235264	NW_004516558.1	scaffold1324	235264	AA	TT	TT	INTERGENIC		
SNP_92957_A_235302	NW_004516558.1	scaffold1324	235302	CC	TT	TT	INTERGENIC		
SNP_92958_A_235323	NW_004516558.1	scaffold1324	235323	TT	AA	AA	INTERGENIC		
SNP_92959_A_235325	NW_004516558.1	scaffold1324	235325	TT	AA	AA	INTERGENIC		
SNP_92960_A_235374	NW_004516558.1	scaffold1324	235374	TT	AA	AA	INTERGENIC		
SNP_92961_A_235454	NW_004516558.1	scaffold1324	235454	TT	GG	GG	INTERGENIC		
SNP_92962_A_236020	NW_004516558.1	scaffold1324	236020	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92963_A_236072	NW_004516558.1	scaffold1324	236072	AA	CC	CC	INTERGENIC			
SNP_92964_A_236153	NW_004516558.1	scaffold1324	236153	AA	CC	CC	INTERGENIC			
SNP_92965_A_236212	NW_004516558.1	scaffold1324	236212	GG	AA	AA	INTERGENIC			
SNP_92966_A_236250	NW_004516558.1	scaffold1324	236250	AA	GG	GG	INTERGENIC			
SNP_92967_A_236261	NW_004516558.1	scaffold1324	236261	GG	AA	AA	INTERGENIC			
SNP_92968_A_236280	NW_004516558.1	scaffold1324	236280	TT	GG	GG	INTERGENIC			
SNP_92969_A_236414	NW_004516558.1	scaffold1324	236414	GG	AA	AA	INTERGENIC			
SNP_92970_A_236495	NW_004516558.1	scaffold1324	236495	AA	CC	CC	INTERGENIC			
SNP_92971_A_236516	NW_004516558.1	scaffold1324	236516	CC	TT	TT	INTERGENIC			
SNP_92972_A_236540	NW_004516558.1	scaffold1324	236540	AA	GG	GG	INTERGENIC			
SNP_92974_A_236759	NW_004516558.1	scaffold1324	236759	AA	GG	GG	INTERGENIC			
SNP_92975_A_236853	NW_004516558.1	scaffold1324	236853	GG	CC	CC	INTERGENIC			
SNP_92976_A_236916	NW_004516558.1	scaffold1324	236916	TT	CC	CC	INTERGENIC			
SNP_92977_A_237069	NW_004516558.1	scaffold1324	237069	AA	CC	CC	INTERGENIC			
SNP_92978_A_237071	NW_004516558.1	scaffold1324	237071	CC	TT	TT	INTERGENIC			
SNP_92979_A_237097	NW_004516558.1	scaffold1324	237097	AA	GG	GG	INTERGENIC			
SNP_92980_A_237098	NW_004516558.1	scaffold1324	237098	TT	CC	CC	INTERGENIC			
SNP_92981_A_237112	NW_004516558.1	scaffold1324	237112	TT	CC	CC	INTERGENIC			
SNP_92982_A_237114	NW_004516558.1	scaffold1324	237114	GG	TT	TT	INTERGENIC			
SNP_92983_A_237189	NW_004516558.1	scaffold1324	237189	GG	AA	AA	INTERGENIC			
SNP_92984_A_237202	NW_004516558.1	scaffold1324	237202	GG	AA	AA	INTERGENIC			
SNP_92985_A_237300	NW_004516558.1	scaffold1324	237300	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_92986_A_237379	NW_004516558.1	scaffold1324	237379	TT	CC	CC	INTERGENIC			
SNP_92987_A_237502	NW_004516558.1	scaffold1324	237502	CC	TT	TT	INTERGENIC			
SNP_92988_A_237522	NW_004516558.1	scaffold1324	237522	GG	CC	CC	INTERGENIC			
SNP_92989_A_237539	NW_004516558.1	scaffold1324	237539	TT	CC	CC	INTERGENIC			
SNP_92990_A_237709	NW_004516558.1	scaffold1324	237709	CC	TT	TT	INTERGENIC			
SNP_92991_A_237904	NW_004516558.1	scaffold1324	237904	AA	GG	GG	INTERGENIC			
SNP_92992_A_237932	NW_004516558.1	scaffold1324	237932	CC	TT	TT	INTERGENIC			
SNP_92993_A_237935	NW_004516558.1	scaffold1324	237935	TT	CC	CC	INTERGENIC			
SNP_92994_A_238320	NW_004516558.1	scaffold1324	238320	AA	TT	TT	INTERGENIC			
SNP_92995_A_238322	NW_004516558.1	scaffold1324	238322	AA	CC	CC	INTERGENIC			
SNP_92996_A_238507	NW_004516558.1	scaffold1324	238507	TT	CC	CC	INTERGENIC			
SNP_92997_A_238532	NW_004516558.1	scaffold1324	238532	AA	GG	GG	INTERGENIC			
SNP_92998_A_238745	NW_004516558.1	scaffold1324	238745	CC	TT	TT	INTERGENIC			
SNP_92999_A_238761	NW_004516558.1	scaffold1324	238761	AA	TT	TT	INTERGENIC			
SNP_93000_A_238805	NW_004516558.1	scaffold1324	238805	CC	TT	TT	INTERGENIC			
SNP_93001_A_238872	NW_004516558.1	scaffold1324	238872	GG	CC	CC	INTERGENIC			
SNP_93002_A_238936	NW_004516558.1	scaffold1324	238936	AA	GG	GG	INTERGENIC			
SNP_93003_A_238966	NW_004516558.1	scaffold1324	238966	TT	CC	CC	INTERGENIC			
SNP_93004_A_238992	NW_004516558.1	scaffold1324	238992	TT	CC	CC	INTERGENIC			
SNP_93005_A_239133	NW_004516558.1	scaffold1324	239133	TT	CC	CC	INTERGENIC			
SNP_93006_A_239134	NW_004516558.1	scaffold1324	239134	GG	AA	AA	INTERGENIC			
SNP_93007_A_239184	NW_004516558.1	scaffold1324	239184	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93008_A_239336	NW_004516558.1	scaffold1324	239336	GG	TT	TT	INTERGENIC			
SNP_93009_A_239790	NW_004516558.1	scaffold1324	239790	GG	AA	AA	INTERGENIC			
SNP_93010_A_239791	NW_004516558.1	scaffold1324	239791	TT	CC	CC	INTERGENIC			
SNP_93011_A_240508	NW_004516558.1	scaffold1324	240508	AA	GG	GG	INTERGENIC			
SNP_93012_A_240530	NW_004516558.1	scaffold1324	240530	CC	TT	TT	INTERGENIC			
SNP_93013_A_240569	NW_004516558.1	scaffold1324	240569	TT	CC	CC	INTERGENIC			
SNP_93014_A_240723	NW_004516558.1	scaffold1324	240723	CC	AA	AA	INTERGENIC			
SNP_93015_A_240761	NW_004516558.1	scaffold1324	240761	TT	CC	CC	INTERGENIC			
SNP_93016_A_240773	NW_004516558.1	scaffold1324	240773	TT	AA	AA	INTERGENIC			
SNP_93017_A_241003	NW_004516558.1	scaffold1324	241003	TT	CC	CC	INTERGENIC			
SNP_93018_A_241021	NW_004516558.1	scaffold1324	241021	AA	GG	GG	INTERGENIC			
SNP_93019_A_241041	NW_004516558.1	scaffold1324	241041	TT	CC	CC	INTERGENIC			
SNP_93020_A_241085	NW_004516558.1	scaffold1324	241085	GG	AA	AA	INTERGENIC			
SNP_93021_A_241203	NW_004516558.1	scaffold1324	241203	TT	CC	CC	INTERGENIC			
SNP_93022_A_241206	NW_004516558.1	scaffold1324	241206	TT	GG	GG	INTERGENIC			
SNP_93023_A_241353	NW_004516558.1	scaffold1324	241353	AA	TT	TT	INTERGENIC			
SNP_93024_A_241523	NW_004516558.1	scaffold1324	241523	TT	CC	CC	INTERGENIC			
SNP_93025_A_241558	NW_004516558.1	scaffold1324	241558	CC	TT	TT	INTERGENIC			
SNP_93026_A_241569	NW_004516558.1	scaffold1324	241569	TT	CC	CC	INTERGENIC			
SNP_93027_A_241582	NW_004516558.1	scaffold1324	241582	GG	AA	AA	INTERGENIC			
SNP_93028_A_241729	NW_004516558.1	scaffold1324	241729	CC	TT	TT	INTERGENIC			
SNP_93029_A_241850	NW_004516558.1	scaffold1324	241850	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93030_A_241884	NW_004516558.1	scaffold1324	241884	GG	CC	CC	INTERGENIC			
SNP_93032_A_247901	NW_004516558.1	scaffold1324	247901	CC	TT	TT	INTERGENIC			
SNP_93033_A_247965	NW_004516558.1	scaffold1324	247965	AA	TT	TT	INTERGENIC			
SNP_93034_A_248095	NW_004516558.1	scaffold1324	248095	TT	AA	AA	INTERGENIC			
SNP_93035_A_248235	NW_004516558.1	scaffold1324	248235	TT	CC	CC	INTERGENIC			
SNP_93036_A_248314	NW_004516558.1	scaffold1324	248314	AA	CC	CC	INTERGENIC			
SNP_93037_A_248344	NW_004516558.1	scaffold1324	248344	CC	TT	TT	INTERGENIC			
SNP_93038_A_251971	NW_004516558.1	scaffold1324	251971	TT	CC	CC	INTERGENIC			
SNP_93040_A_252751	NW_004516558.1	scaffold1324	252751	CC	TT	TT	INTERGENIC			
SNP_93041_A_252775	NW_004516558.1	scaffold1324	252775	AA	GG	GG	INTERGENIC			
SNP_93043_A_252843	NW_004516558.1	scaffold1324	252843	AA	CC	CC	INTERGENIC			
SNP_93044_A_253082	NW_004516558.1	scaffold1324	253082	TT	CC	CC	INTERGENIC			
SNP_93045_A_253362	NW_004516558.1	scaffold1324	253362	TT	GG	GG	INTERGENIC			
SNP_93046_A_253375	NW_004516558.1	scaffold1324	253375	CC	TT	TT	INTERGENIC			
SNP_93047_A_253379	NW_004516558.1	scaffold1324	253379	GG	TT	TT	INTERGENIC			
SNP_93048_A_253520	NW_004516558.1	scaffold1324	253520	CC	AA	AA	INTERGENIC			
SNP_93049_A_253608	NW_004516558.1	scaffold1324	253608	AA	GG	GG	INTERGENIC			
SNP_93050_A_253611	NW_004516558.1	scaffold1324	253611	CC	AA	AA	INTERGENIC			
SNP_93052_A_253796	NW_004516558.1	scaffold1324	253796	AA	TT	TT	INTERGENIC			
SNP_93053_A_253985	NW_004516558.1	scaffold1324	253985	TT	GG	GG	INTERGENIC			
SNP_93054_A_254034	NW_004516558.1	scaffold1324	254034	TT	CC	CC	INTERGENIC			
SNP_93055_A_254050	NW_004516558.1	scaffold1324	254050	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93056_A_254052	NW_004516558.1	scaffold1324	254052	AA	TT	TT	INTERGENIC			
SNP_93057_A_254079	NW_004516558.1	scaffold1324	254079	CC	TT	TT	INTERGENIC			
SNP_93058_A_254261	NW_004516558.1	scaffold1324	254261	CC	TT	TT	INTERGENIC			
SNP_93059_A_254945	NW_004516558.1	scaffold1324	254945	AA	GG	GG	INTERGENIC			
SNP_93060_A_255028	NW_004516558.1	scaffold1324	255028	CC	AA	AA	INTERGENIC			
SNP_93061_A_255090	NW_004516558.1	scaffold1324	255090	AA	TT	TT	INTERGENIC			
SNP_93062_A_255279	NW_004516558.1	scaffold1324	255279	GG	TT	TT	INTERGENIC			
SNP_93063_A_255579	NW_004516558.1	scaffold1324	255579	GG	AA	AA	INTERGENIC			
SNP_93064_A_255580	NW_004516558.1	scaffold1324	255580	GG	TT	TT	INTERGENIC			
SNP_93065_A_255591	NW_004516558.1	scaffold1324	255591	CC	GG	GG	INTERGENIC			
SNP_93067_A_255687	NW_004516558.1	scaffold1324	255687	AA	GG	GG	INTERGENIC			
SNP_93068_A_255734	NW_004516558.1	scaffold1324	255734	AA	GG	GG	INTERGENIC			
SNP_93069_A_255774	NW_004516558.1	scaffold1324	255774	CC	TT	TT	INTERGENIC			
SNP_93070_A_255787	NW_004516558.1	scaffold1324	255787	GG	TT	TT	INTERGENIC			
SNP_93072_A_255878	NW_004516558.1	scaffold1324	255878	GG	TT	TT	INTERGENIC			
SNP_93074_A_256014	NW_004516558.1	scaffold1324	256014	AA	GG	GG	INTERGENIC			
SNP_93075_A_256050	NW_004516558.1	scaffold1324	256050	TT	CC	CC	INTERGENIC			
SNP_93076_A_256158	NW_004516558.1	scaffold1324	256158	AA	GG	GG	INTERGENIC			
SNP_93077_A_256209	NW_004516558.1	scaffold1324	256209	GG	CC	CC	INTERGENIC			
SNP_93078_A_256211	NW_004516558.1	scaffold1324	256211	AA	TT	TT	INTERGENIC			
SNP_93079_A_256277	NW_004516558.1	scaffold1324	256277	TT	GG	GG	INTERGENIC			
SNP_93081_A_256352	NW_004516558.1	scaffold1324	256352	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93082_A_256403	NW_004516558.1	scaffold1324	256403	AA	TT	TT	INTERGENIC			
SNP_93083_A_256404	NW_004516558.1	scaffold1324	256404	TT	AA	AA	INTERGENIC			
SNP_93084_A_256425	NW_004516558.1	scaffold1324	256425	GG	AA	AA	INTERGENIC			
SNP_93085_A_256503	NW_004516558.1	scaffold1324	256503	AA	GG	GG	INTERGENIC			
SNP_93086_A_265912	NW_004516558.1	scaffold1324	265912	TT	CC	CC	INTERGENIC			
SNP_93087_A_266150	NW_004516558.1	scaffold1324	266150	AA	CC	CC	INTERGENIC			
SNP_93088_A_266152	NW_004516558.1	scaffold1324	266152	CC	TT	TT	INTERGENIC			
SNP_93089_A_266169	NW_004516558.1	scaffold1324	266169	AA	GG	GG	INTERGENIC			
SNP_93090_A_266309	NW_004516558.1	scaffold1324	266309	TT	AA	AA	INTERGENIC			
SNP_93091_A_266386	NW_004516558.1	scaffold1324	266386	GG	TT	TT	INTERGENIC			
SNP_93092_A_266658	NW_004516558.1	scaffold1324	266658	CC	TT	TT	INTERGENIC			
SNP_93094_A_266786	NW_004516558.1	scaffold1324	266786	TT	CC	CC	INTERGENIC			
SNP_93095_A_266787	NW_004516558.1	scaffold1324	266787	GG	AA	AA	INTERGENIC			
SNP_93097_A_266850	NW_004516558.1	scaffold1324	266850	TT	GG	GG	INTERGENIC			
SNP_93098_A_266875	NW_004516558.1	scaffold1324	266875	AA	GG	GG	INTERGENIC			
SNP_93099_A_266930	NW_004516558.1	scaffold1324	266930	TT	CC	CC	INTERGENIC			
SNP_93100_A_267002	NW_004516558.1	scaffold1324	267002	GG	CC	CC	INTERGENIC			
SNP_93101_A_267023	NW_004516558.1	scaffold1324	267023	CC	TT	TT	INTERGENIC			
SNP_93102_A_267072	NW_004516558.1	scaffold1324	267072	TT	CC	CC	INTERGENIC			
SNP_93103_A_267182	NW_004516558.1	scaffold1324	267182	AA	TT	TT	INTERGENIC			
SNP_93104_A_267270	NW_004516558.1	scaffold1324	267270	CC	TT	TT	INTERGENIC			
SNP_93105_A_267692	NW_004516558.1	scaffold1324	267692	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93106_A_267695	NW_004516558.1	scaffold1324	267695	TT	CC	CC	INTERGENIC			
SNP_93107_A_267814	NW_004516558.1	scaffold1324	267814	AA	GG	GG	INTERGENIC			
SNP_93108_A_267864	NW_004516558.1	scaffold1324	267864	TT	CC	CC	INTERGENIC			
SNP_93109_A_267874	NW_004516558.1	scaffold1324	267874	GG	AA	AA	INTERGENIC			
SNP_93110_A_267967	NW_004516558.1	scaffold1324	267967	GG	AA	AA	INTERGENIC			
SNP_93112_A_268324	NW_004516558.1	scaffold1324	268324	GG	TT	TT	INTERGENIC			
SNP_93114_A_268674	NW_004516558.1	scaffold1324	268674	CC	TT	TT	INTERGENIC			
SNP_93115_A_268786	NW_004516558.1	scaffold1324	268786	GG	AA	AA	INTERGENIC			
SNP_93116_A_268868	NW_004516558.1	scaffold1324	268868	AA	GG	GG	INTERGENIC			
SNP_93117_A_268904	NW_004516558.1	scaffold1324	268904	TT	CC	CC	INTERGENIC			
SNP_93118_A_268926	NW_004516558.1	scaffold1324	268926	TT	CC	CC	INTERGENIC			
SNP_93119_A_268984	NW_004516558.1	scaffold1324	268984	GG	TT	TT	INTERGENIC			
SNP_93120_A_269083	NW_004516558.1	scaffold1324	269083	AA	GG	GG	INTERGENIC			
SNP_93121_A_269298	NW_004516558.1	scaffold1324	269298	TT	GG	GG	INTERGENIC			
SNP_93122_A_269325	NW_004516558.1	scaffold1324	269325	GG	AA	AA	INTERGENIC			
SNP_93123_A_269999	NW_004516558.1	scaffold1324	269999	CC	TT	TT	INTERGENIC			
SNP_93124_A_270055	NW_004516558.1	scaffold1324	270055	TT	AA	AA	INTERGENIC			
SNP_93125_A_270059	NW_004516558.1	scaffold1324	270059	TT	GG	GG	INTERGENIC			
SNP_93126_A_270140	NW_004516558.1	scaffold1324	270140	CC	GG	GG	INTERGENIC			
SNP_93127_A_270172	NW_004516558.1	scaffold1324	270172	AA	GG	GG	INTERGENIC			
SNP_93128_A_270197	NW_004516558.1	scaffold1324	270197	AA	TT	TT	INTERGENIC			
SNP_93129_A_270316	NW_004516558.1	scaffold1324	270316	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93130_A_270334	NW_004516558.1	scaffold1324	270334	CC	TT	TT	INTERGENIC			
SNP_93131_A_270393	NW_004516558.1	scaffold1324	270393	GG	AA	AA	INTERGENIC			
SNP_93132_A_270398	NW_004516558.1	scaffold1324	270398	CC	AA	AA	INTERGENIC			
SNP_93133_A_270429	NW_004516558.1	scaffold1324	270429	CC	TT	TT	INTERGENIC			
SNP_93134_A_270448	NW_004516558.1	scaffold1324	270448	TT	GG	GG	INTERGENIC			
SNP_93135_A_270488	NW_004516558.1	scaffold1324	270488	TT	CC	CC	INTERGENIC			
SNP_93136_A_270560	NW_004516558.1	scaffold1324	270560	TT	AA	AA	INTERGENIC			
SNP_93137_A_270565	NW_004516558.1	scaffold1324	270565	AA	GG	GG	INTERGENIC			
SNP_93138_A_270627	NW_004516558.1	scaffold1324	270627	CC	TT	TT	INTERGENIC			
SNP_93139_A_270641	NW_004516558.1	scaffold1324	270641	CC	AA	AA	INTERGENIC			
SNP_93140_A_270657	NW_004516558.1	scaffold1324	270657	TT	CC	CC	INTERGENIC			
SNP_93141_A_270664	NW_004516558.1	scaffold1324	270664	GG	AA	AA	INTERGENIC			
SNP_93142_A_270771	NW_004516558.1	scaffold1324	270771	TT	AA	AA	INTERGENIC			
SNP_93143_A_270772	NW_004516558.1	scaffold1324	270772	GG	CC	CC	INTERGENIC			
SNP_93144_A_270778	NW_004516558.1	scaffold1324	270778	TT	CC	CC	INTERGENIC			
SNP_93146_A_270896	NW_004516558.1	scaffold1324	270896	TT	CC	CC	INTERGENIC			
SNP_93147_A_270977	NW_004516558.1	scaffold1324	270977	GG	AA	AA	INTERGENIC			
SNP_93148_A_271002	NW_004516558.1	scaffold1324	271002	CC	TT	TT	INTERGENIC			
SNP_93149_A_271004	NW_004516558.1	scaffold1324	271004	TT	CC	CC	INTERGENIC			
SNP_93150_A_271281	NW_004516558.1	scaffold1324	271281	AA	GG	GG	INTERGENIC			
SNP_93151_A_271299	NW_004516558.1	scaffold1324	271299	TT	GG	GG	INTERGENIC			
SNP_93152_A_271448	NW_004516558.1	scaffold1324	271448	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93153_A_271450	NW_004516558.1	scaffold1324	271450	CC	TT	TT	INTERGENIC			
SNP_93154_A_271496	NW_004516558.1	scaffold1324	271496	CC	GG	GG	INTERGENIC			
SNP_93155_A_271521	NW_004516558.1	scaffold1324	271521	GG	TT	TT	INTERGENIC			
SNP_93156_A_271584	NW_004516558.1	scaffold1324	271584	AA	GG	GG	INTERGENIC			
SNP_93157_A_271730	NW_004516558.1	scaffold1324	271730	TT	CC	CC	INTERGENIC			
SNP_93158_A_271787	NW_004516558.1	scaffold1324	271787	GG	AA	AA	INTERGENIC			
SNP_93159_A_271820	NW_004516558.1	scaffold1324	271820	CC	TT	TT	INTERGENIC			
SNP_93161_A_272168	NW_004516558.1	scaffold1324	272168	CC	TT	TT	INTERGENIC			
SNP_93162_A_272246	NW_004516558.1	scaffold1324	272246	GG	AA	AA	INTERGENIC			
SNP_93163_A_272252	NW_004516558.1	scaffold1324	272252	TT	CC	CC	INTERGENIC			
SNP_93164_A_272292	NW_004516558.1	scaffold1324	272292	TT	CC	CC	INTERGENIC			
SNP_93165_A_272326	NW_004516558.1	scaffold1324	272326	AA	CC	CC	INTERGENIC			
SNP_93166_A_272332	NW_004516558.1	scaffold1324	272332	TT	CC	CC	INTERGENIC			
SNP_93167_A_272392	NW_004516558.1	scaffold1324	272392	CC	TT	TT	INTERGENIC			
SNP_93168_A_272447	NW_004516558.1	scaffold1324	272447	CC	AA	AA	INTERGENIC			
SNP_93169_A_272463	NW_004516558.1	scaffold1324	272463	GG	AA	AA	INTERGENIC			
SNP_93170_A_272856	NW_004516558.1	scaffold1324	272856	TT	CC	CC	INTERGENIC			
SNP_93171_A_272878	NW_004516558.1	scaffold1324	272878	AA	CC	CC	INTERGENIC			
SNP_93172_A_272879	NW_004516558.1	scaffold1324	272879	AA	CC	CC	INTERGENIC			
SNP_93173_A_272943	NW_004516558.1	scaffold1324	272943	CC	TT	TT	INTERGENIC			
SNP_93174_A_272988	NW_004516558.1	scaffold1324	272988	GG	AA	AA	INTERGENIC			
SNP_93175_A_272993	NW_004516558.1	scaffold1324	272993	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93176_A_273017	NW_004516558.1	scaffold1324	273017	CC	AA	AA	INTERGENIC			
SNP_93177_A_273045	NW_004516558.1	scaffold1324	273045	AA	CC	CC	INTERGENIC			
SNP_93178_A_273167	NW_004516558.1	scaffold1324	273167	GG	AA	AA	INTERGENIC			
SNP_93179_A_273544	NW_004516558.1	scaffold1324	273544	CC	TT	TT	INTERGENIC			
SNP_93180_A_273567	NW_004516558.1	scaffold1324	273567	AA	GG	GG	INTERGENIC			
SNP_93181_A_273584	NW_004516558.1	scaffold1324	273584	AA	TT	TT	INTERGENIC			
SNP_93182_A_273586	NW_004516558.1	scaffold1324	273586	AA	TT	TT	INTERGENIC			
SNP_93183_A_273600	NW_004516558.1	scaffold1324	273600	AA	CC	CC	INTERGENIC			
SNP_93184_A_273608	NW_004516558.1	scaffold1324	273608	AA	GG	GG	INTERGENIC			
SNP_93185_A_273790	NW_004516558.1	scaffold1324	273790	CC	TT	TT	INTERGENIC			
SNP_93186_A_273865	NW_004516558.1	scaffold1324	273865	AA	CC	CC	INTERGENIC			
SNP_93187_A_273897	NW_004516558.1	scaffold1324	273897	GG	CC	CC	INTERGENIC			
SNP_93188_A_273903	NW_004516558.1	scaffold1324	273903	TT	CC	CC	INTERGENIC			
SNP_93189_A_273911	NW_004516558.1	scaffold1324	273911	AA	GG	GG	INTERGENIC			
SNP_93190_A_273946	NW_004516558.1	scaffold1324	273946	CC	GG	GG	INTERGENIC			
SNP_93191_A_273967	NW_004516558.1	scaffold1324	273967	CC	AA	AA	INTERGENIC			
SNP_93192_A_273970	NW_004516558.1	scaffold1324	273970	GG	AA	AA	INTERGENIC			
SNP_93193_A_274757	NW_004516558.1	scaffold1324	274757	GG	AA	AA	INTERGENIC			
SNP_93194_A_274789	NW_004516558.1	scaffold1324	274789	AA	GG	GG	INTERGENIC			
SNP_93195_A_274964	NW_004516558.1	scaffold1324	274964	TT	AA	AA	INTERGENIC			
SNP_93196_A_274991	NW_004516558.1	scaffold1324	274991	GG	CC	CC	INTERGENIC			
SNP_93197_A_275783	NW_004516558.1	scaffold1324	275783	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93198_A_276751	NW_004516558.1	scaffold1324	276751	TT	AA	AA	INTERGENIC		
SNP_93199_A_278422	NW_004516558.1	scaffold1324	278422	AA	GG	GG	DRR	101504794	F-box/LRR-repeat protein At4g14103-like
SNP_93200_A_279326	NW_004516558.1	scaffold1324	279326	CC	TT	TT	DRR	101504794	F-box/LRR-repeat protein At4g14103-like
SNP_93201_A_279367	NW_004516558.1	scaffold1324	279367	TT	GG	GG	INTERGENIC		
SNP_93202_A_319607	NW_004516558.1	scaffold1324	319607	AA	CC	CC	INTERGENIC		
SNP_93203_A_319892	NW_004516558.1	scaffold1324	319892	TT	CC	CC	INTERGENIC		
SNP_93204_A_319939	NW_004516558.1	scaffold1324	319939	AA	CC	CC	INTERGENIC		
SNP_93205_A_394293	NW_004516558.1	scaffold1324	394293	TT	AA	AA	DRR	101513265	Unknown function
SNP_93206_A_397545	NW_004516558.1	scaffold1324	397545	GG	AA	AA	NON_SYNONYMOUS_CODING	101513265	Unknown function
SNP_93207_A_476471	NW_004516558.1	scaffold1324	476471	AA	GG	GG	INTERGENIC		
SNP_93208_A_476476	NW_004516558.1	scaffold1324	476476	AA	GG	GG	INTERGENIC		
SNP_93209_A_494439	NW_004516558.1	scaffold1324	494439	GG	AA	AA	DRR	101507585	E3 ubiquitin-protein ligase XBAT33-like
SNP_93210_A_495758	NW_004516558.1	scaffold1324	495758	GG	AA	AA	INTRON	101507585	E3 ubiquitin-protein ligase XBAT33-like
SNP_93212_A_514344	NW_004516558.1	scaffold1324	514344	TT	CC	CC	INTERGENIC		
SNP_93215_A_519446	NW_004516558.1	scaffold1324	519446	TT	CC	CC	INTERGENIC		
SNP_93216_A_519598	NW_004516558.1	scaffold1324	519598	AA	TT	TT	INTERGENIC		
SNP_93218_A_524722	NW_004516558.1	scaffold1324	524722	TT	AA	AA	DRR	101508214	serine/threonine-protein phosphatase 7 long form homolog
SNP_93219_A_524821	NW_004516558.1	scaffold1324	524821	GG	AA	AA	DRR	101508214	serine/threonine-protein phosphatase 7 long form homolog
SNP_93220_A_537004	NW_004516558.1	scaffold1324	537004	TT	GG	GG	INTERGENIC		
SNP_93221_A_537024	NW_004516558.1	scaffold1324	537024	CC	AA	AA	INTERGENIC		
SNP_93222_A_538945	NW_004516558.1	scaffold1324	538945	TT	CC	CC	INTERGENIC		
SNP_93223_A_538958	NW_004516558.1	scaffold1324	538958	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93224_A_539215	NW_004516558.1	scaffold1324	539215	CC	TT	TT	INTERGENIC			
SNP_93225_A_573843	NW_004516558.1	scaffold1324	573843	AA	GG	GG	INTERGENIC			
SNP_93226_A_632828	NW_004516558.1	scaffold1324	632828	TT	CC	CC	INTERGENIC			
SNP_93227_A_632904	NW_004516558.1	scaffold1324	632904	CC	GG	GG	INTERGENIC			
SNP_93228_A_633204	NW_004516558.1	scaffold1324	633204	CC	AA	AA	INTERGENIC			
SNP_93229_A_642296	NW_004516558.1	scaffold1324	642296	CC	GG	GG	INTERGENIC			
SNP_93230_A_642345	NW_004516558.1	scaffold1324	642345	CC	TT	TT	INTERGENIC			
SNP_93232_A_684985	NW_004516558.1	scaffold1324	684985	TT	CC	CC	INTERGENIC			
SNP_93233_A_684999	NW_004516558.1	scaffold1324	684999	AA	TT	TT	INTERGENIC			
SNP_93234_A_685353	NW_004516558.1	scaffold1324	685353	TT	CC	CC	INTERGENIC			
SNP_93236_A_1955	NW_004516560.1	scaffold1327	1955	CC	GG	GG	INTERGENIC			
SNP_93237_A_33422	NW_004516560.1	scaffold1327	33422	GG	TT	TT	INTERGENIC			
SNP_93238_A_33438	NW_004516560.1	scaffold1327	33438	TT	CC	CC	INTERGENIC			
SNP_93239_A_33455	NW_004516560.1	scaffold1327	33455	TT	CC	CC	INTERGENIC			
SNP_93240_A_39762	NW_004516560.1	scaffold1327	39762	GG	TT	TT	INTERGENIC			
SNP_93241_A_39766	NW_004516560.1	scaffold1327	39766	TT	CC	CC	INTERGENIC			
SNP_93242_A_39775	NW_004516560.1	scaffold1327	39775	TT	AA	AA	INTERGENIC			
SNP_93243_A_39870	NW_004516560.1	scaffold1327	39870	TT	CC	CC	INTERGENIC			
SNP_93244_A_39905	NW_004516560.1	scaffold1327	39905	GG	AA	AA	INTERGENIC			
SNP_93245_A_40028	NW_004516560.1	scaffold1327	40028	TT	CC	CC	INTERGENIC			
SNP_93246_A_40031	NW_004516560.1	scaffold1327	40031	GG	TT	TT	INTERGENIC			
SNP_93247_A_40044	NW_004516560.1	scaffold1327	40044	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93248_A_40100	NW_004516560.1	scaffold1327	40100	TT	GG	GG	INTERGENIC			
SNP_93249_A_40130	NW_004516560.1	scaffold1327	40130	TT	GG	GG	INTERGENIC			
SNP_93250_A_40141	NW_004516560.1	scaffold1327	40141	CC	TT	TT	INTERGENIC			
SNP_93251_A_43093	NW_004516560.1	scaffold1327	43093	GG	AA	AA	INTERGENIC			
SNP_93252_A_43222	NW_004516560.1	scaffold1327	43222	AA	CC	CC	INTERGENIC			
SNP_93253_A_43275	NW_004516560.1	scaffold1327	43275	TT	CC	CC	INTERGENIC			
SNP_93254_A_43307	NW_004516560.1	scaffold1327	43307	GG	CC	CC	INTERGENIC			
SNP_93255_A_54149	NW_004516560.1	scaffold1327	54149	AA	GG	GG	INTERGENIC			
SNP_93256_A_54431	NW_004516560.1	scaffold1327	54431	CC	GG	GG	INTERGENIC			
SNP_93257_A_54438	NW_004516560.1	scaffold1327	54438	GG	TT	TT	INTERGENIC			
SNP_93258_A_58229	NW_004516560.1	scaffold1327	58229	TT	CC	CC	INTERGENIC			
SNP_93259_A_65492	NW_004516560.1	scaffold1327	65492	TT	GG	GG	INTERGENIC			
SNP_93260_A_77387	NW_004516560.1	scaffold1327	77387	CC	AA	AA	INTERGENIC			
SNP_93261_A_80956	NW_004516560.1	scaffold1327	80956	AA	CC	CC	INTERGENIC			
SNP_93262_A_92327	NW_004516560.1	scaffold1327	92327	TT	GG	GG	INTERGENIC			
SNP_93263_A_92345	NW_004516560.1	scaffold1327	92345	TT	CC	CC	INTERGENIC			
SNP_93264_A_92398	NW_004516560.1	scaffold1327	92398	AA	TT	TT	INTERGENIC			
SNP_93265_A_92402	NW_004516560.1	scaffold1327	92402	CC	TT	TT	INTERGENIC			
SNP_93266_A_92584	NW_004516560.1	scaffold1327	92584	TT	CC	CC	INTERGENIC			
SNP_93267_A_95744	NW_004516560.1	scaffold1327	95744	TT	CC	CC	INTERGENIC			
SNP_93268_A_114508	NW_004516560.1	scaffold1327	114508	GG	TT	TT	INTERGENIC			
SNP_93269_A_114518	NW_004516560.1	scaffold1327	114518	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93270_A_114525	NW_004516560.1	scaffold1327	114525	GG	AA	AA	INTERGENIC			
SNP_93271_A_114532	NW_004516560.1	scaffold1327	114532	GG	AA	AA	INTERGENIC			
SNP_93272_A_114553	NW_004516560.1	scaffold1327	114553	TT	CC	CC	INTERGENIC			
SNP_93273_A_114569	NW_004516560.1	scaffold1327	114569	GG	AA	AA	INTERGENIC			
SNP_93274_A_114794	NW_004516560.1	scaffold1327	114794	GG	AA	AA	INTERGENIC			
SNP_93275_A_114804	NW_004516560.1	scaffold1327	114804	TT	CC	CC	INTERGENIC			
SNP_93276_A_114834	NW_004516560.1	scaffold1327	114834	TT	CC	CC	INTERGENIC			
SNP_93277_A_114863	NW_004516560.1	scaffold1327	114863	TT	CC	CC	INTERGENIC			
SNP_93278_A_120201	NW_004516560.1	scaffold1327	120201	GG	AA	AA	INTERGENIC			
SNP_93279_A_122913	NW_004516560.1	scaffold1327	122913	GG	CC	CC	INTERGENIC			
SNP_93280_A_123115	NW_004516560.1	scaffold1327	123115	AA	TT	TT	INTERGENIC			
SNP_93281_A_123159	NW_004516560.1	scaffold1327	123159	AA	TT	TT	INTERGENIC			
SNP_93282_A_11732	NW_004516561.1	scaffold1328	11732	AA	TT	TT	INTERGENIC			
SNP_93284_A_20270	NW_004516561.1	scaffold1328	20270	AA	GG	GG	INTERGENIC			
SNP_93285_A_26375	NW_004516561.1	scaffold1328	26375	AA	TT	TT	INTERGENIC			
SNP_93286_A_26474	NW_004516561.1	scaffold1328	26474	AA	CC	CC	INTERGENIC			
SNP_93287_A_26504	NW_004516561.1	scaffold1328	26504	TT	CC	CC	INTERGENIC			
SNP_93288_A_26716	NW_004516561.1	scaffold1328	26716	GG	AA	AA	INTERGENIC			
SNP_93289_A_26726	NW_004516561.1	scaffold1328	26726	CC	AA	AA	INTERGENIC			
SNP_93290_A_31842	NW_004516561.1	scaffold1328	31842	GG	AA	AA	INTERGENIC			
SNP_93291_A_32077	NW_004516561.1	scaffold1328	32077	GG	AA	AA	INTERGENIC			
SNP_93292_A_33498	NW_004516561.1	scaffold1328	33498	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93293_A_38586	NW_004516561.1	scaffold1328	38586	TT	CC	CC	INTERGENIC			
SNP_93294_A_38871	NW_004516561.1	scaffold1328	38871	TT	CC	CC	INTERGENIC			
SNP_93295_A_54183	NW_004516561.1	scaffold1328	54183	GG	TT	TT	INTERGENIC			
SNP_93296_A_63527	NW_004516561.1	scaffold1328	63527	CC	AA	AA	INTERGENIC			
SNP_93297_A_63543	NW_004516561.1	scaffold1328	63543	TT	CC	CC	INTERGENIC			
SNP_93298_A_63553	NW_004516561.1	scaffold1328	63553	GG	AA	AA	INTERGENIC			
SNP_93299_A_63857	NW_004516561.1	scaffold1328	63857	AA	GG	GG	INTERGENIC			
SNP_93300_A_71402	NW_004516561.1	scaffold1328	71402	AA	CC	CC	INTERGENIC			
SNP_93301_A_71535	NW_004516561.1	scaffold1328	71535	AA	GG	GG	INTERGENIC			
SNP_93303_A_72390	NW_004516561.1	scaffold1328	72390	AA	GG	GG	INTERGENIC			
SNP_93304_A_72565	NW_004516561.1	scaffold1328	72565	AA	GG	GG	INTERGENIC			
SNP_93305_A_72573	NW_004516561.1	scaffold1328	72573	GG	TT	TT	INTERGENIC			
SNP_93306_A_72592	NW_004516561.1	scaffold1328	72592	TT	CC	CC	INTERGENIC			
SNP_93307_A_72594	NW_004516561.1	scaffold1328	72594	TT	GG	GG	INTERGENIC			
SNP_93308_A_72645	NW_004516561.1	scaffold1328	72645	AA	GG	GG	INTERGENIC			
SNP_93309_A_73307	NW_004516561.1	scaffold1328	73307	TT	CC	CC	INTERGENIC			
SNP_93310_A_77271	NW_004516561.1	scaffold1328	77271	CC	TT	TT	INTERGENIC			
SNP_93312_A_79923	NW_004516561.1	scaffold1328	79923	AA	GG	GG	INTERGENIC			
SNP_93313_A_79948	NW_004516561.1	scaffold1328	79948	TT	AA	AA	INTERGENIC			
SNP_93314_A_16163	NW_004516563.1	scaffold1330	16163	TT	CC	CC	INTERGENIC			
SNP_93315_A_16406	NW_004516563.1	scaffold1330	16406	AA	TT	TT	INTERGENIC			
SNP_93316_A_21062	NW_004516563.1	scaffold1330	21062	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93317_A_21092	NW_004516563.1	scaffold1330	21092	CC	TT	TT	INTERGENIC			
SNP_93318_A_27859	NW_004516563.1	scaffold1330	27859	AA	GG	GG	INTERGENIC			
SNP_93319_A_27894	NW_004516563.1	scaffold1330	27894	TT	GG	GG	INTERGENIC			
SNP_93320_A_38397	NW_004516563.1	scaffold1330	38397	AA	CC	CC	INTERGENIC			
SNP_93321_A_40847	NW_004516563.1	scaffold1330	40847	AA	GG	GG	INTERGENIC			
SNP_93322_A_40848	NW_004516563.1	scaffold1330	40848	TT	AA	AA	INTERGENIC			
SNP_93323_A_41128	NW_004516563.1	scaffold1330	41128	AA	GG	GG	INTERGENIC			
SNP_93324_A_41163	NW_004516563.1	scaffold1330	41163	AA	TT	TT	INTERGENIC			
SNP_93325_A_64	NW_004516564.1	scaffold1331	64	AA	TT	TT	INTERGENIC			
SNP_93326_A_458	NW_004516564.1	scaffold1331	458	CC	TT	TT	INTERGENIC			
SNP_93327_A_24502	NW_004516564.1	scaffold1331	24502	AA	GG	GG	INTERGENIC			
SNP_93328_A_24511	NW_004516564.1	scaffold1331	24511	AA	TT	TT	INTERGENIC			
SNP_93329_A_32675	NW_004516564.1	scaffold1331	32675	TT	CC	CC	INTERGENIC			
SNP_93330_A_33625	NW_004516564.1	scaffold1331	33625	TT	CC	CC	INTERGENIC			
SNP_93331_A_33926	NW_004516564.1	scaffold1331	33926	TT	AA	AA	INTERGENIC			
SNP_93332_A_38056	NW_004516564.1	scaffold1331	38056	GG	AA	AA	INTERGENIC			
SNP_93333_A_39660	NW_004516564.1	scaffold1331	39660	TT	CC	CC	INTERGENIC			
SNP_93334_A_41279	NW_004516564.1	scaffold1331	41279	AA	CC	CC	INTERGENIC			
SNP_93335_A_41460	NW_004516564.1	scaffold1331	41460	CC	AA	AA	INTERGENIC			
SNP_93336_A_41462	NW_004516564.1	scaffold1331	41462	AA	CC	CC	INTERGENIC			
SNP_93337_A_41482	NW_004516564.1	scaffold1331	41482	CC	AA	AA	INTERGENIC			
SNP_93338_A_41498	NW_004516564.1	scaffold1331	41498	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93339_A_50309	NW_004516564.1	scaffold1331	50309	CC	AA	AA	INTERGENIC			
SNP_93340_A_50313	NW_004516564.1	scaffold1331	50313	CC	TT	TT	INTERGENIC			
SNP_93341_A_50358	NW_004516564.1	scaffold1331	50358	CC	TT	TT	INTERGENIC			
SNP_93342_A_50359	NW_004516564.1	scaffold1331	50359	GG	TT	TT	INTERGENIC			
SNP_93343_A_50373	NW_004516564.1	scaffold1331	50373	CC	TT	TT	INTERGENIC			
SNP_93345_A_50668	NW_004516564.1	scaffold1331	50668	AA	GG	GG	INTERGENIC			
SNP_93346_A_50721	NW_004516564.1	scaffold1331	50721	TT	AA	AA	INTERGENIC			
SNP_93348_A_53217	NW_004516564.1	scaffold1331	53217	AA	TT	TT	INTERGENIC			
SNP_93349_A_53218	NW_004516564.1	scaffold1331	53218	AA	TT	TT	INTERGENIC			
SNP_93350_A_54739	NW_004516564.1	scaffold1331	54739	GG	AA	AA	INTERGENIC			
SNP_93351_A_57039	NW_004516564.1	scaffold1331	57039	AA	CC	CC	INTERGENIC			
SNP_93352_A_57637	NW_004516564.1	scaffold1331	57637	TT	AA	AA	INTERGENIC			
SNP_93353_A_58536	NW_004516564.1	scaffold1331	58536	TT	CC	CC	INTERGENIC			
SNP_93354_A_61674	NW_004516564.1	scaffold1331	61674	CC	GG	GG	INTERGENIC			
SNP_93355_A_62316	NW_004516564.1	scaffold1331	62316	TT	CC	CC	INTERGENIC			
SNP_93356_A_62626	NW_004516564.1	scaffold1331	62626	GG	AA	AA	INTERGENIC			
SNP_93358_A_64693	NW_004516564.1	scaffold1331	64693	TT	CC	CC	INTERGENIC			
SNP_93359_A_75330	NW_004516564.1	scaffold1331	75330	TT	AA	AA	INTERGENIC			
SNP_93360_A_75654	NW_004516564.1	scaffold1331	75654	AA	TT	TT	INTERGENIC			
SNP_93362_A_86188	NW_004516564.1	scaffold1331	86188	GG	AA	AA	INTERGENIC			
SNP_93363_A_86786	NW_004516564.1	scaffold1331	86786	CC	TT	TT	INTERGENIC			
SNP_93364_A_158	NW_004516565.1	scaffold1332	158	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93365_A_340	NW_004516565.1	scaffold1332	340	GG	AA	AA	INTERGENIC			
SNP_93366_A_364	NW_004516565.1	scaffold1332	364	TT	AA	AA	INTERGENIC			
SNP_93367_A_365	NW_004516565.1	scaffold1332	365	TT	AA	AA	INTERGENIC			
SNP_93368_A_366	NW_004516565.1	scaffold1332	366	TT	AA	AA	INTERGENIC			
SNP_93369_A_386	NW_004516565.1	scaffold1332	386	AA	GG	GG	INTERGENIC			
SNP_93370_A_402	NW_004516565.1	scaffold1332	402	CC	TT	TT	INTERGENIC			
SNP_93371_A_423	NW_004516565.1	scaffold1332	423	CC	TT	TT	INTERGENIC			
SNP_93373_A_536	NW_004516565.1	scaffold1332	536	GG	TT	TT	INTERGENIC			
SNP_93374_A_610	NW_004516565.1	scaffold1332	610	GG	AA	AA	INTERGENIC			
SNP_93375_A_613	NW_004516565.1	scaffold1332	613	TT	CC	CC	INTERGENIC			
SNP_93376_A_673	NW_004516565.1	scaffold1332	673	GG	TT	TT	INTERGENIC			
SNP_93377_A_4554	NW_004516565.1	scaffold1332	4554	TT	GG	GG	INTERGENIC			
SNP_93378_A_4555	NW_004516565.1	scaffold1332	4555	AA	CC	CC	INTERGENIC			
SNP_93379_A_4894	NW_004516565.1	scaffold1332	4894	GG	CC	CC	INTERGENIC			
SNP_93380_A_5571	NW_004516565.1	scaffold1332	5571	TT	AA	AA	DRR	101489180	Unknown function	
SNP_93381_A_5596	NW_004516565.1	scaffold1332	5596	CC	TT	TT	DRR	101489180	Unknown function	
SNP_93382_A_5665	NW_004516565.1	scaffold1332	5665	GG	TT	TT	DRR	101489180	Unknown function	
SNP_93383_A_5926	NW_004516565.1	scaffold1332	5926	TT	AA	AA	DRR	101489180	Unknown function	
SNP_93384_A_5952	NW_004516565.1	scaffold1332	5952	CC	TT	TT	DRR	101489180	Unknown function	
SNP_93385_A_6009	NW_004516565.1	scaffold1332	6009	CC	AA	AA	DRR	101489180	Unknown function	
SNP_93386_A_6029	NW_004516565.1	scaffold1332	6029	GG	AA	AA	DRR	101489180	Unknown function	
SNP_93387_A_6058	NW_004516565.1	scaffold1332	6058	GG	TT	TT	DRR	101489180	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93388_A_6072	NW_004516565.1	scaffold1332	6072	CC	AA	AA	DRR	101489180	Unknown function
SNP_93389_A_6244	NW_004516565.1	scaffold1332	6244	AA	GG	GG	NON_SYNONYMOUS_CODING	101489180	Unknown function
SNP_93390_A_6251	NW_004516565.1	scaffold1332	6251	AA	TT	TT	NON_SYNONYMOUS_CODING	101489180	Unknown function
SNP_93391_A_6390	NW_004516565.1	scaffold1332	6390	TT	CC	CC	NON_SYNONYMOUS_CODING	101489180	Unknown function
SNP_93392_A_7771	NW_004516565.1	scaffold1332	7771	CC	TT	TT	URR	101489180	Unknown function
SNP_93393_A_7940	NW_004516565.1	scaffold1332	7940	AA	GG	GG	URR	101489180	Unknown function
SNP_93395_A_8403	NW_004516565.1	scaffold1332	8403	CC	TT	TT	URR	101489180	Unknown function
SNP_93396_A_8423	NW_004516565.1	scaffold1332	8423	CC	AA	AA	URR	101489180	Unknown function
SNP_93397_A_8453	NW_004516565.1	scaffold1332	8453	AA	TT	TT	URR	101489180	Unknown function
SNP_93398_A_8454	NW_004516565.1	scaffold1332	8454	AA	TT	TT	URR	101489180	Unknown function
SNP_93400_A_8501	NW_004516565.1	scaffold1332	8501	CC	AA	AA	INTERGENIC		
SNP_93401_A_8681	NW_004516565.1	scaffold1332	8681	AA	GG	GG	INTERGENIC		
SNP_93402_A_8818	NW_004516565.1	scaffold1332	8818	AA	TT	TT	INTERGENIC		
SNP_93403_A_8844	NW_004516565.1	scaffold1332	8844	AA	GG	GG	INTERGENIC		
SNP_93404_A_8883	NW_004516565.1	scaffold1332	8883	TT	CC	CC	INTERGENIC		
SNP_93405_A_8899	NW_004516565.1	scaffold1332	8899	GG	AA	AA	INTERGENIC		
SNP_93406_A_9091	NW_004516565.1	scaffold1332	9091	CC	GG	GG	INTERGENIC		
SNP_93407_A_9110	NW_004516565.1	scaffold1332	9110	CC	TT	TT	INTERGENIC		
SNP_93408_A_9190	NW_004516565.1	scaffold1332	9190	GG	TT	TT	INTERGENIC		
SNP_93409_A_9355	NW_004516565.1	scaffold1332	9355	TT	GG	GG	INTERGENIC		
SNP_93410_A_9384	NW_004516565.1	scaffold1332	9384	GG	TT	TT	INTERGENIC		
SNP_93411_A_9416	NW_004516565.1	scaffold1332	9416	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93412_A_9516	NW_004516565.1	scaffold1332	9516	TT	CC	CC	INTERGENIC			
SNP_93413_A_9624	NW_004516565.1	scaffold1332	9624	TT	AA	AA	INTERGENIC			
SNP_93414_A_9651	NW_004516565.1	scaffold1332	9651	GG	AA	AA	INTERGENIC			
SNP_93415_A_9684	NW_004516565.1	scaffold1332	9684	GG	CC	CC	INTERGENIC			
SNP_93416_A_9875	NW_004516565.1	scaffold1332	9875	GG	CC	CC	INTERGENIC			
SNP_93417_A_9953	NW_004516565.1	scaffold1332	9953	AA	GG	GG	INTERGENIC			
SNP_93419_A_10016	NW_004516565.1	scaffold1332	10016	AA	GG	GG	INTERGENIC			
SNP_93420_A_11000	NW_004516565.1	scaffold1332	11000	GG	AA	AA	INTERGENIC			
SNP_93421_A_11035	NW_004516565.1	scaffold1332	11035	TT	GG	GG	INTERGENIC			
SNP_93422_A_11214	NW_004516565.1	scaffold1332	11214	TT	GG	GG	INTERGENIC			
SNP_93423_A_11260	NW_004516565.1	scaffold1332	11260	GG	TT	TT	INTERGENIC			
SNP_93424_A_11285	NW_004516565.1	scaffold1332	11285	GG	CC	CC	INTERGENIC			
SNP_93425_A_22791	NW_004516566.1	scaffold1335	22791	TT	GG	GG	INTERGENIC			
SNP_93426_A_26509	NW_004516566.1	scaffold1335	26509	TT	GG	GG	INTERGENIC			
SNP_93427_A_33352	NW_004516566.1	scaffold1335	33352	TT	GG	GG	INTERGENIC			
SNP_93428_A_33382	NW_004516566.1	scaffold1335	33382	AA	GG	GG	INTERGENIC			
SNP_93429_A_33392	NW_004516566.1	scaffold1335	33392	GG	AA	AA	INTERGENIC			
SNP_93430_A_33409	NW_004516566.1	scaffold1335	33409	TT	AA	AA	INTERGENIC			
SNP_93431_A_33420	NW_004516566.1	scaffold1335	33420	TT	AA	AA	INTERGENIC			
SNP_93432_A_33452	NW_004516566.1	scaffold1335	33452	AA	GG	GG	INTERGENIC			
SNP_93433_A_33630	NW_004516566.1	scaffold1335	33630	GG	AA	AA	INTERGENIC			
SNP_93434_A_33682	NW_004516566.1	scaffold1335	33682	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93435_A_33716	NW_004516566.1	scaffold1335	33716	GG	AA	AA	INTERGENIC		
SNP_93436_A_33727	NW_004516566.1	scaffold1335	33727	GG	TT	TT	INTERGENIC		
SNP_93437_A_33732	NW_004516566.1	scaffold1335	33732	AA	GG	GG	INTERGENIC		
SNP_93438_A_33733	NW_004516566.1	scaffold1335	33733	GG	AA	AA	INTERGENIC		
SNP_93439_A_33857	NW_004516566.1	scaffold1335	33857	AA	GG	GG	INTERGENIC		
SNP_93440_A_33860	NW_004516566.1	scaffold1335	33860	GG	AA	AA	INTERGENIC		
SNP_93441_A_33888	NW_004516566.1	scaffold1335	33888	CC	AA	AA	INTERGENIC		
SNP_93442_A_45125	NW_004516566.1	scaffold1335	45125	AA	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93443_A_45373	NW_004516566.1	scaffold1335	45373	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93444_A_45374	NW_004516566.1	scaffold1335	45374	GG	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93445_A_45410	NW_004516566.1	scaffold1335	45410	AA	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93446_A_45449	NW_004516566.1	scaffold1335	45449	AA	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93447_A_45452	NW_004516566.1	scaffold1335	45452	AA	GG	GG	URR	101489826	uncharacterized LOC101489826
SNP_93448_A_45473	NW_004516566.1	scaffold1335	45473	AA	GG	GG	URR	101489826	uncharacterized LOC101489826
SNP_93449_A_45482	NW_004516566.1	scaffold1335	45482	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93450_A_45494	NW_004516566.1	scaffold1335	45494	CC	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93451_A_45502	NW_004516566.1	scaffold1335	45502	AA	GG	GG	URR	101489826	uncharacterized LOC101489826
SNP_93452_A_45527	NW_004516566.1	scaffold1335	45527	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93453_A_45590	NW_004516566.1	scaffold1335	45590	AA	GG	GG	URR	101489826	uncharacterized LOC101489826
SNP_93454_A_45667	NW_004516566.1	scaffold1335	45667	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93455_A_45691	NW_004516566.1	scaffold1335	45691	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93456_A_45791	NW_004516566.1	scaffold1335	45791	CC	TT	TT	URR	101489826	uncharacterized LOC101489826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93457_A_45793	NW_004516566.1	scaffold1335	45793	GG	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93458_A_45806	NW_004516566.1	scaffold1335	45806	TT	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93459_A_45840	NW_004516566.1	scaffold1335	45840	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93460_A_45863	NW_004516566.1	scaffold1335	45863	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93461_A_45886	NW_004516566.1	scaffold1335	45886	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93462_A_45905	NW_004516566.1	scaffold1335	45905	AA	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93463_A_45924	NW_004516566.1	scaffold1335	45924	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93464_A_45933	NW_004516566.1	scaffold1335	45933	TT	GG	GG	URR	101489826	uncharacterized LOC101489826
SNP_93465_A_45941	NW_004516566.1	scaffold1335	45941	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93466_A_46050	NW_004516566.1	scaffold1335	46050	CC	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93467_A_46073	NW_004516566.1	scaffold1335	46073	TT	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93468_A_46127	NW_004516566.1	scaffold1335	46127	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93469_A_46137	NW_004516566.1	scaffold1335	46137	CC	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93470_A_46184	NW_004516566.1	scaffold1335	46184	TT	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93471_A_46212	NW_004516566.1	scaffold1335	46212	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93472_A_46255	NW_004516566.1	scaffold1335	46255	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93474_A_46291	NW_004516566.1	scaffold1335	46291	GG	AA	AA	URR	101489826	uncharacterized LOC101489826
SNP_93475_A_46361	NW_004516566.1	scaffold1335	46361	GG	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93476_A_46375	NW_004516566.1	scaffold1335	46375	CC	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93477_A_46433	NW_004516566.1	scaffold1335	46433	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93478_A_46471	NW_004516566.1	scaffold1335	46471	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93479_A_46531	NW_004516566.1	scaffold1335	46531	TT	AA	AA	URR	101489826	uncharacterized LOC101489826

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93480_A_46547	NW_004516566.1	scaffold1335	46547	AA	TT	TT	URR	101489826	uncharacterized LOC101489826
SNP_93481_A_46549	NW_004516566.1	scaffold1335	46549	TT	CC	CC	URR	101489826	uncharacterized LOC101489826
SNP_93482_A_34879	NW_004516567.1	scaffold1337	34879	TT	CC	CC	INTERGENIC		
SNP_93483_A_40818	NW_004516567.1	scaffold1337	40818	AA	GG	GG	INTERGENIC		
SNP_93484_A_40893	NW_004516567.1	scaffold1337	40893	GG	AA	AA	INTERGENIC		
SNP_93485_A_40897	NW_004516567.1	scaffold1337	40897	AA	CC	CC	INTERGENIC		
SNP_93487_A_41438	NW_004516567.1	scaffold1337	41438	CC	TT	TT	INTERGENIC		
SNP_93488_A_43016	NW_004516567.1	scaffold1337	43016	TT	CC	CC	INTERGENIC		
SNP_93489_A_43081	NW_004516567.1	scaffold1337	43081	CC	AA	AA	INTERGENIC		
SNP_93491_A_1266	NW_004516569.1	scaffold1339	1266	TT	AA	AA	INTERGENIC		
SNP_93492_A_1296	NW_004516569.1	scaffold1339	1296	TT	GG	GG	INTERGENIC		
SNP_93493_A_1301	NW_004516569.1	scaffold1339	1301	GG	CC	CC	INTERGENIC		
SNP_93494_A_1555	NW_004516569.1	scaffold1339	1555	AA	CC	CC	INTERGENIC		
SNP_93495_A_262	NW_004516570.1	scaffold1342	262	TT	CC	CC	INTERGENIC		
SNP_93496_A_269	NW_004516570.1	scaffold1342	269	GG	AA	AA	INTERGENIC		
SNP_93497_A_11277	NW_004516572.1	scaffold1344	11277	CC	AA	AA	INTERGENIC		
SNP_93498_A_11421	NW_004516572.1	scaffold1344	11421	GG	AA	AA	INTERGENIC		
SNP_93499_A_11807	NW_004516572.1	scaffold1344	11807	AA	CC	CC	INTERGENIC		
SNP_93500_A_11811	NW_004516572.1	scaffold1344	11811	AA	GG	GG	INTERGENIC		
SNP_93501_A_11844	NW_004516572.1	scaffold1344	11844	AA	CC	CC	INTERGENIC		
SNP_93502_A_11876	NW_004516572.1	scaffold1344	11876	CC	TT	TT	INTERGENIC		
SNP_93503_A_11963	NW_004516572.1	scaffold1344	11963	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93504_A_13536	NW_004516572.1	scaffold1344	13536	AA	CC	CC	INTERGENIC		
SNP_93505_A_20948	NW_004516572.1	scaffold1344	20948	GG	CC	CC	INTERGENIC		
SNP_93506_A_20954	NW_004516572.1	scaffold1344	20954	GG	AA	AA	INTERGENIC		
SNP_93507_A_20972	NW_004516572.1	scaffold1344	20972	TT	CC	CC	INTERGENIC		
SNP_93508_A_20998	NW_004516572.1	scaffold1344	20998	AA	GG	GG	INTERGENIC		
SNP_93509_A_22170	NW_004516572.1	scaffold1344	22170	TT	CC	CC	INTERGENIC		
SNP_93511_A_5325	NW_004516574.1	scaffold1348_1	5325	CC	AA	AA	DRR	101510251	Unknown function
SNP_93512_A_5368	NW_004516574.1	scaffold1348_1	5368	TT	CC	CC	DRR	101510251	Unknown function
SNP_93513_A_5958	NW_004516574.1	scaffold1348_1	5958	AA	GG	GG	URR	101510251	Unknown function
SNP_93515_A_16079	NW_004516574.1	scaffold1348_1	16079	GG	AA	AA	URR	101490153	acid beta-fructofuranosidase-like
SNP_93517_A_18020	NW_004516574.1	scaffold1348_1	18020	AA	TT	TT	INTERGENIC		
SNP_93518_A_18061	NW_004516574.1	scaffold1348_1	18061	GG	AA	AA	INTERGENIC		
SNP_93519_A_18062	NW_004516574.1	scaffold1348_1	18062	TT	GG	GG	INTERGENIC		
SNP_93520_A_18101	NW_004516574.1	scaffold1348_1	18101	CC	TT	TT	INTERGENIC		
SNP_93521_A_25829	NW_004516574.1	scaffold1348_1	25829	TT	CC	CC	INTRON	101490477	monocopper oxidase-like protein SKU5
SNP_93523_A_30614	NW_004516574.1	scaffold1348_1	30614	GG	CC	CC	INTERGENIC		
SNP_93524_A_33650	NW_004516574.1	scaffold1348_1	33650	AA	GG	GG	INTERGENIC		
SNP_93525_A_33662	NW_004516574.1	scaffold1348_1	33662	TT	CC	CC	INTERGENIC		
SNP_93526_A_36190	NW_004516574.1	scaffold1348_1	36190	TT	CC	CC	INTERGENIC		
SNP_93527_A_36202	NW_004516574.1	scaffold1348_1	36202	AA	CC	CC	INTERGENIC		
SNP_93528_A_36214	NW_004516574.1	scaffold1348_1	36214	AA	TT	TT	INTERGENIC		
SNP_93529_A_36505	NW_004516574.1	scaffold1348_1	36505	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93530_A_40756	NW_004516574.1	scaffold1348_1	40756	AA	GG	GG	DRR	101490802	protein YABBY 4-like
SNP_93531_A_40791	NW_004516574.1	scaffold1348_1	40791	GG	TT	TT	DRR	101490802	protein YABBY 4-like
SNP_93532_A_41006	NW_004516574.1	scaffold1348_1	41006	TT	AA	AA	DRR	101490802	protein YABBY 4-like
SNP_93534_A_44613	NW_004516574.1	scaffold1348_1	44613	AA	CC	CC	URR	101490802	protein YABBY 4-like
SNP_93535_A_44615	NW_004516574.1	scaffold1348_1	44615	CC	TT	TT	URR	101490802	protein YABBY 4-like
SNP_93538_A_45921	NW_004516574.1	scaffold1348_1	45921	CC	TT	TT	URR	101490802	protein YABBY 4-like
SNP_93539_A_45961	NW_004516574.1	scaffold1348_1	45961	GG	AA	AA	URR	101490802	protein YABBY 4-like
SNP_93540_A_48952	NW_004516574.1	scaffold1348_1	48952	TT	CC	CC	INTERGENIC		
SNP_93541_A_48958	NW_004516574.1	scaffold1348_1	48958	GG	CC	CC	INTERGENIC		
SNP_93542_A_48978	NW_004516574.1	scaffold1348_1	48978	GG	TT	TT	INTERGENIC		
SNP_93543_A_49002	NW_004516574.1	scaffold1348_1	49002	GG	CC	CC	INTERGENIC		
SNP_93544_A_49790	NW_004516574.1	scaffold1348_1	49790	GG	TT	TT	INTERGENIC		
SNP_93545_A_49818	NW_004516574.1	scaffold1348_1	49818	CC	GG	GG	INTERGENIC		
SNP_93546_A_50018	NW_004516574.1	scaffold1348_1	50018	TT	CC	CC	INTERGENIC		
SNP_93547_A_50101	NW_004516574.1	scaffold1348_1	50101	TT	AA	AA	INTERGENIC		
SNP_93548_A_50131	NW_004516574.1	scaffold1348_1	50131	TT	AA	AA	INTERGENIC		
SNP_93549_A_60952	NW_004516574.1	scaffold1348_1	60952	AA	GG	GG	INTERGENIC		
SNP_93550_A_60959	NW_004516574.1	scaffold1348_1	60959	GG	AA	AA	INTERGENIC		
SNP_93551_A_62610	NW_004516574.1	scaffold1348_1	62610	GG	CC	CC	INTERGENIC		
SNP_93552_A_63851	NW_004516574.1	scaffold1348_1	63851	AA	CC	CC	DRR	101491337	NAC domain-containing protein 7-like
SNP_93555_A_65875	NW_004516574.1	scaffold1348_1	65875	GG	AA	AA	INTRON	101491337	NAC domain-containing protein 7-like
SNP_93556_A_65883	NW_004516574.1	scaffold1348_1	65883	GG	CC	CC	INTRON	101491337	NAC domain-containing protein 7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93557_A_67238	NW_004516574.1	scaffold1348_1	67238	TT	CC	CC	INTRON	101491337	NAC domain-containing protein 7-like
SNP_93558_A_67376	NW_004516574.1	scaffold1348_1	67376	GG	TT	TT	INTRON	101491337	NAC domain-containing protein 7-like
SNP_93559_A_68229	NW_004516574.1	scaffold1348_1	68229	GG	CC	CC	INTRON	101491337	NAC domain-containing protein 7-like
SNP_93560_A_68562	NW_004516574.1	scaffold1348_1	68562	GG	AA	AA	SPLICE_SITE_REGION	101491337	NAC domain-containing protein 7-like
SNP_93562_A_70818	NW_004516574.1	scaffold1348_1	70818	TT	CC	CC	URR	101491337	NAC domain-containing protein 7-like
SNP_93563_A_71015	NW_004516574.1	scaffold1348_1	71015	AA	TT	TT	URR	101491337	NAC domain-containing protein 7-like
SNP_93564_A_71723	NW_004516574.1	scaffold1348_1	71723	GG	CC	CC	URR	101491337	NAC domain-containing protein 7-like
SNP_93565_A_72624	NW_004516574.1	scaffold1348_1	72624	TT	AA	AA	INTERGENIC		
SNP_93567_A_72676	NW_004516574.1	scaffold1348_1	72676	GG	TT	TT	INTERGENIC		
SNP_93568_A_75073	NW_004516574.1	scaffold1348_1	75073	CC	TT	TT	INTERGENIC		
SNP_93569_A_81162	NW_004516574.1	scaffold1348_1	81162	GG	AA	AA	SPLICE_SITE_REGION	101491855	legumain
SNP_93570_A_81346	NW_004516574.1	scaffold1348_1	81346	AA	CC	CC	INTRON	101491855	legumain
SNP_93571_A_81763	NW_004516574.1	scaffold1348_1	81763	AA	GG	GG	INTRON	101491855	legumain
SNP_93572_A_84101	NW_004516574.1	scaffold1348_1	84101	GG	AA	AA	INTRON	101491855	legumain
SNP_93573_A_87994	NW_004516574.1	scaffold1348_1	87994	TT	GG	GG	INTERGENIC		
SNP_93574_A_88914	NW_004516574.1	scaffold1348_1	88914	TT	CC	CC	INTERGENIC		
SNP_93575_A_89641	NW_004516574.1	scaffold1348_1	89641	AA	TT	TT	INTERGENIC		
SNP_93576_A_89643	NW_004516574.1	scaffold1348_1	89643	TT	AA	AA	INTERGENIC		
SNP_93577_A_89872	NW_004516574.1	scaffold1348_1	89872	AA	GG	GG	INTERGENIC		
SNP_93578_A_89875	NW_004516574.1	scaffold1348_1	89875	TT	AA	AA	INTERGENIC		
SNP_93579_A_89877	NW_004516574.1	scaffold1348_1	89877	TT	CC	CC	INTERGENIC		
SNP_93580_A_90115	NW_004516574.1	scaffold1348_1	90115	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93581_A_90393	NW_004516574.1	scaffold1348_1	90393	AA	GG	GG	INTERGENIC		
SNP_93582_A_90452	NW_004516574.1	scaffold1348_1	90452	GG	AA	AA	INTERGENIC		
SNP_93583_A_90458	NW_004516574.1	scaffold1348_1	90458	GG	AA	AA	INTERGENIC		
SNP_93584_A_95231	NW_004516574.1	scaffold1348_1	95231	GG	AA	AA	INTRON	101492190	elongation factor G-2, chloroplastic
SNP_93585_A_96428	NW_004516574.1	scaffold1348_1	96428	CC	TT	TT	URR	101492190	elongation factor G-2, chloroplastic
SNP_93586_A_97190	NW_004516574.1	scaffold1348_1	97190	GG	TT	TT	URR	101492190	elongation factor G-2, chloroplastic
SNP_93587_A_99477	NW_004516574.1	scaffold1348_1	99477	TT	CC	CC	INTERGENIC		
SNP_93589_A_99715	NW_004516574.1	scaffold1348_1	99715	CC	GG	GG	INTERGENIC		
SNP_93590_A_99720	NW_004516574.1	scaffold1348_1	99720	TT	CC	CC	INTERGENIC		
SNP_93591_A_100767	NW_004516574.1	scaffold1348_1	100767	CC	TT	TT	INTERGENIC		
SNP_93592_A_100788	NW_004516574.1	scaffold1348_1	100788	GG	TT	TT	INTERGENIC		
SNP_93593_A_101014	NW_004516574.1	scaffold1348_1	101014	CC	GG	GG	INTERGENIC		
SNP_93594_A_101070	NW_004516574.1	scaffold1348_1	101070	AA	GG	GG	INTERGENIC		
SNP_93595_A_101125	NW_004516574.1	scaffold1348_1	101125	AA	CC	CC	INTERGENIC		
SNP_93596_A_102018	NW_004516574.1	scaffold1348_1	102018	AA	GG	GG	INTERGENIC		
SNP_93597_A_102043	NW_004516574.1	scaffold1348_1	102043	AA	GG	GG	INTERGENIC		
SNP_93598_A_103263	NW_004516574.1	scaffold1348_1	103263	AA	GG	GG	DRR	101492529	protein YLS3-like
SNP_93599_A_103611	NW_004516574.1	scaffold1348_1	103611	TT	CC	CC	DRR	101492529	protein YLS3-like
SNP_93600_A_103626	NW_004516574.1	scaffold1348_1	103626	CC	GG	GG	DRR	101492529	protein YLS3-like
SNP_93601_A_103627	NW_004516574.1	scaffold1348_1	103627	GG	AA	AA	DRR	101492529	protein YLS3-like
SNP_93602_A_105909	NW_004516574.1	scaffold1348_1	105909	CC	TT	TT	INTRON	101492529	protein YLS3-like
SNP_93603_A_105937	NW_004516574.1	scaffold1348_1	105937	GG	AA	AA	INTRON	101492529	protein YLS3-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93604_A_106125	NW_004516574.1	scaffold1348_1	106125	TT	AA	AA	INTRON	101492529	protein YLS3-like
SNP_93605_A_107008	NW_004516574.1	scaffold1348_1	107008	AA	CC	CC	DRR	101492858	copper chaperone for superoxide dismutase, chloroplastic/cytosolic
SNP_93606_A_107070	NW_004516574.1	scaffold1348_1	107070	GG	CC	CC	DRR	101492858	copper chaperone for superoxide dismutase, chloroplastic/cytosolic
SNP_93608_A_107730	NW_004516574.1	scaffold1348_1	107730	AA	GG	GG	URR	101492529	protein YLS3-like
SNP_93609_A_109075	NW_004516574.1	scaffold1348_1	109075	TT	CC	CC	INTERGENIC		
SNP_93610_A_117746	NW_004516574.1	scaffold1348_1	117746	CC	TT	TT	INTRON	101493191	nudix hydrolase 14, chloroplastic-like
SNP_93611_A_117768	NW_004516574.1	scaffold1348_1	117768	GG	AA	AA	INTRON	101493191	nudix hydrolase 14, chloroplastic-like
SNP_93612_A_119189	NW_004516574.1	scaffold1348_1	119189	TT	CC	CC	URR	101493191	nudix hydrolase 14, chloroplastic-like
SNP_93614_A_123783	NW_004516574.1	scaffold1348_1	123783	GG	AA	AA	URR	101493510	probable sugar phosphate/phosphate translocator At1g12500
SNP_93615_A_124866	NW_004516574.1	scaffold1348_1	124866	AA	TT	TT	INTERGENIC		
SNP_93617_A_129479	NW_004516574.1	scaffold1348_1	129479	CC	TT	TT	INTRON	101495217	guard cell S-type anion channel SLAC1
SNP_93618_A_129650	NW_004516574.1	scaffold1348_1	129650	CC	TT	TT	INTRON	101495217	guard cell S-type anion channel SLAC1
SNP_93619_A_129870	NW_004516574.1	scaffold1348_1	129870	GG	TT	TT	INTRON	101495217	guard cell S-type anion channel SLAC1
SNP_93620_A_129912	NW_004516574.1	scaffold1348_1	129912	AA	GG	GG	INTRON	101495217	guard cell S-type anion channel SLAC1
SNP_93621_A_129977	NW_004516574.1	scaffold1348_1	129977	TT	GG	GG	INTERGENIC		
SNP_93622_A_130196	NW_004516574.1	scaffold1348_1	130196	AA	GG	GG	INTERGENIC		
SNP_93623_A_130773	NW_004516574.1	scaffold1348_1	130773	TT	CC	CC	INTERGENIC		
SNP_93624_A_130792	NW_004516574.1	scaffold1348_1	130792	CC	TT	TT	INTERGENIC		
SNP_93625_A_130799	NW_004516574.1	scaffold1348_1	130799	TT	GG	GG	INTERGENIC		
SNP_93626_A_136388	NW_004516574.1	scaffold1348_1	136388	GG	AA	AA	URR	101495217	guard cell S-type anion channel SLAC1
SNP_93627_A_141280	NW_004516574.1	scaffold1348_1	141280	AA	CC	CC	INTRON	101493823	protein TPX2-like
SNP_93629_A_142992	NW_004516574.1	scaffold1348_1	142992	CC	GG	GG	URR	101493823	protein TPX2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93630_A_142995	NW_004516574.1	scaffold1348_1	142995	GG	CC	CC	URR	101493823	protein TPX2-like
SNP_93631_A_143067	NW_004516574.1	scaffold1348_1	143067	AA	CC	CC	URR	101493823	protein TPX2-like
SNP_93632_A_143687	NW_004516574.1	scaffold1348_1	143687	GG	AA	AA	URR	101493823	protein TPX2-like
SNP_93633_A_143752	NW_004516574.1	scaffold1348_1	143752	GG	AA	AA	URR	101493823	protein TPX2-like
SNP_93634_A_145709	NW_004516574.1	scaffold1348_1	145709	TT	GG	GG	INTERGENIC		
SNP_93635_A_145715	NW_004516574.1	scaffold1348_1	145715	CC	GG	GG	INTERGENIC		
SNP_93636_A_148647	NW_004516574.1	scaffold1348_1	148647	GG	AA	AA	INTRON	101495535	transmembrane protein 64-like
SNP_93637_A_152466	NW_004516574.1	scaffold1348_1	152466	AA	TT	TT	URR	101495535	transmembrane protein 64-like
SNP_93638_A_153133	NW_004516574.1	scaffold1348_1	153133	GG	AA	AA	URR	101495535	transmembrane protein 64-like
SNP_93639_A_153165	NW_004516574.1	scaffold1348_1	153165	CC	GG	GG	URR	101495535	transmembrane protein 64-like
SNP_93640_A_157963	NW_004516574.1	scaffold1348_1	157963	AA	GG	GG	INTERGENIC		
SNP_93641_A_159063	NW_004516574.1	scaffold1348_1	159063	TT	CC	CC	INTERGENIC		
SNP_93642_A_159189	NW_004516574.1	scaffold1348_1	159189	GG	AA	AA	INTERGENIC		
SNP_93645_A_163703	NW_004516574.1	scaffold1348_1	163703	AA	GG	GG	INTERGENIC		
SNP_93646_A_163712	NW_004516574.1	scaffold1348_1	163712	AA	GG	GG	INTERGENIC		
SNP_93647_A_163925	NW_004516574.1	scaffold1348_1	163925	TT	AA	AA	DRR	101495864	uncharacterized LOC101495864
SNP_93648_A_164002	NW_004516574.1	scaffold1348_1	164002	GG	AA	AA	DRR	101495864	uncharacterized LOC101495864
SNP_93649_A_164025	NW_004516574.1	scaffold1348_1	164025	GG	AA	AA	DRR	101495864	uncharacterized LOC101495864
SNP_93650_A_164048	NW_004516574.1	scaffold1348_1	164048	GG	TT	TT	DRR	101495864	uncharacterized LOC101495864
SNP_93651_A_164214	NW_004516574.1	scaffold1348_1	164214	CC	TT	TT	DRR	101495864	uncharacterized LOC101495864
SNP_93652_A_164352	NW_004516574.1	scaffold1348_1	164352	AA	CC	CC	DRR	101495864	uncharacterized LOC101495864
SNP_93653_A_164358	NW_004516574.1	scaffold1348_1	164358	CC	AA	AA	DRR	101495864	uncharacterized LOC101495864

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93654_A_168076	NW_004516574.1	scaffold1348_1	168076	AA	GG	GG	URR	101495864	uncharacterized LOC101495864
SNP_93656_A_170056	NW_004516574.1	scaffold1348_1	170056	CC	TT	TT	INTERGENIC		
SNP_93657_A_170095	NW_004516574.1	scaffold1348_1	170095	AA	TT	TT	INTERGENIC		
SNP_93659_A_171075	NW_004516574.1	scaffold1348_1	171075	AA	GG	GG	INTERGENIC		
SNP_93660_A_171740	NW_004516574.1	scaffold1348_1	171740	AA	GG	GG	INTERGENIC		
SNP_93661_A_171810	NW_004516574.1	scaffold1348_1	171810	GG	AA	AA	INTERGENIC		
SNP_93662_A_171861	NW_004516574.1	scaffold1348_1	171861	CC	TT	TT	INTERGENIC		
SNP_93663_A_171900	NW_004516574.1	scaffold1348_1	171900	GG	AA	AA	INTERGENIC		
SNP_93664_A_171942	NW_004516574.1	scaffold1348_1	171942	AA	GG	GG	INTERGENIC		
SNP_93665_A_172099	NW_004516574.1	scaffold1348_1	172099	TT	AA	AA	INTERGENIC		
SNP_93666_A_172191	NW_004516574.1	scaffold1348_1	172191	TT	CC	CC	INTERGENIC		
SNP_93667_A_172233	NW_004516574.1	scaffold1348_1	172233	TT	CC	CC	INTERGENIC		
SNP_93668_A_172249	NW_004516574.1	scaffold1348_1	172249	CC	AA	AA	INTERGENIC		
SNP_93669_A_172265	NW_004516574.1	scaffold1348_1	172265	TT	GG	CC	INTERGENIC		
SNP_93670_A_172274	NW_004516574.1	scaffold1348_1	172274	CC	TT	TT	INTERGENIC		
SNP_93671_A_172290	NW_004516574.1	scaffold1348_1	172290	TT	CC	CC	INTERGENIC		
SNP_93673_A_176187	NW_004516574.1	scaffold1348_1	176187	GG	TT	TT	INTERGENIC		
SNP_93674_A_179587	NW_004516574.1	scaffold1348_1	179587	TT	AA	AA	INTERGENIC		
SNP_93676_A_182370	NW_004516574.1	scaffold1348_1	182370	CC	TT	TT	URR	101496193	ACT domain-containing protein ACR8-like
SNP_93677_A_187287	NW_004516574.1	scaffold1348_1	187287	AA	GG	GG	INTERGENIC		
SNP_93678_A_190081	NW_004516574.1	scaffold1348_1	190081	GG	AA	AA	INTERGENIC		
SNP_93679_A_192004	NW_004516574.1	scaffold1348_1	192004	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93680_A_192005	NW_004516574.1	scaffold1348_1	192005	GG	AA	AA	INTERGENIC		
SNP_93681_A_192735	NW_004516574.1	scaffold1348_1	192735	GG	AA	AA	INTERGENIC		
SNP_93682_A_192761	NW_004516574.1	scaffold1348_1	192761	TT	CC	CC	INTERGENIC		
SNP_93683_A_193005	NW_004516574.1	scaffold1348_1	193005	TT	CC	CC	INTERGENIC		
SNP_93684_A_194511	NW_004516574.1	scaffold1348_1	194511	TT	AA	AA	INTERGENIC		
SNP_93685_A_194535	NW_004516574.1	scaffold1348_1	194535	CC	TT	TT	INTERGENIC		
SNP_93686_A_194559	NW_004516574.1	scaffold1348_1	194559	TT	GG	GG	INTERGENIC		
SNP_93687_A_195131	NW_004516574.1	scaffold1348_1	195131	GG	TT	TT	INTERGENIC		
SNP_93688_A_197981	NW_004516574.1	scaffold1348_1	197981	GG	AA	AA	INTERGENIC		
SNP_93690_A_202091	NW_004516574.1	scaffold1348_1	202091	AA	TT	TT	INTERGENIC		
SNP_93691_A_205917	NW_004516574.1	scaffold1348_1	205917	GG	AA	AA	INTERGENIC		
SNP_93692_A_205942	NW_004516574.1	scaffold1348_1	205942	CC	GG	GG	INTERGENIC		
SNP_93693_A_205953	NW_004516574.1	scaffold1348_1	205953	CC	TT	TT	INTERGENIC		
SNP_93694_A_209553	NW_004516574.1	scaffold1348_1	209553	GG	AA	AA	DRR	101496855	ATP-dependent Clp protease proteolytic subunit-related protein 2, chloroplastic
SNP_93695_A_209563	NW_004516574.1	scaffold1348_1	209563	AA	CC	CC	DRR	101496855	ATP-dependent Clp protease proteolytic subunit-related protein 2, chloroplastic
SNP_93697_A_211857	NW_004516574.1	scaffold1348_1	211857	TT	CC	CC	INTERGENIC		
SNP_93699_A_212191	NW_004516574.1	scaffold1348_1	212191	AA	GG	GG	INTERGENIC		
SNP_93702_A_219576	NW_004516574.1	scaffold1348_1	219576	TT	AA	AA	URR	101497181	protein cornichon homolog 4
SNP_93703_A_219589	NW_004516574.1	scaffold1348_1	219589	AA	TT	TT	URR	101497181	protein cornichon homolog 4
SNP_93704_A_219622	NW_004516574.1	scaffold1348_1	219622	GG	AA	AA	URR	101497181	protein cornichon homolog 4
SNP_93705_A_220612	NW_004516574.1	scaffold1348_1	220612	TT	CC	CC	DRR	101497512	uncharacterized LOC101497512
SNP_93706_A_220644	NW_004516574.1	scaffold1348_1	220644	TT	CC	CC	DRR	101497512	uncharacterized LOC101497512

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_93707_A_220709	NW_004516574.1	scaffold1348_1	220709	TT	CC	CC	DRR		101497512	uncharacterized LOC101497512
SNP_93708_A_220722	NW_004516574.1	scaffold1348_1	220722	AA	TT	TT	DRR		101497512	uncharacterized LOC101497512
SNP_93709_A_220777	NW_004516574.1	scaffold1348_1	220777	GG	AA	AA	DRR		101497512	uncharacterized LOC101497512
SNP_93710_A_220968	NW_004516574.1	scaffold1348_1	220968	GG	AA	AA	DRR		101497512	uncharacterized LOC101497512
SNP_93711_A_220977	NW_004516574.1	scaffold1348_1	220977	TT	AA	AA	DRR		101497512	uncharacterized LOC101497512
SNP_93712_A_221494	NW_004516574.1	scaffold1348_1	221494	TT	CC	CC	DRR		101497512	uncharacterized LOC101497512
SNP_93713_A_221620	NW_004516574.1	scaffold1348_1	221620	GG	AA	AA	INTERGENIC			
SNP_93714_A_224866	NW_004516574.1	scaffold1348_1	224866	CC	AA	AA	INTERGENIC			
SNP_93716_A_227299	NW_004516574.1	scaffold1348_1	227299	AA	GG	GG	INTERGENIC			
SNP_93717_A_227302	NW_004516574.1	scaffold1348_1	227302	AA	GG	GG	INTERGENIC			
SNP_93718_A_228690	NW_004516574.1	scaffold1348_1	228690	AA	TT	TT	INTERGENIC			
SNP_93719_A_229148	NW_004516574.1	scaffold1348_1	229148	TT	AA	AA	INTERGENIC			
SNP_93720_A_229435	NW_004516574.1	scaffold1348_1	229435	CC	TT	TT	INTERGENIC			
SNP_93721_A_229504	NW_004516574.1	scaffold1348_1	229504	GG	AA	AA	INTERGENIC			
SNP_93722_A_232903	NW_004516574.1	scaffold1348_1	232903	GG	AA	AA	INTERGENIC			
SNP_93724_A_233808	NW_004516574.1	scaffold1348_1	233808	TT	CC	CC	INTERGENIC			
SNP_93725_A_237360	NW_004516574.1	scaffold1348_1	237360	CC	TT	TT	INTERGENIC			
SNP_93726_A_237512	NW_004516574.1	scaffold1348_1	237512	CC	TT	TT	INTERGENIC			
SNP_93727_A_237532	NW_004516574.1	scaffold1348_1	237532	TT	CC	CC	INTERGENIC			
SNP_93729_A_245339	NW_004516574.1	scaffold1348_1	245339	GG	TT	TT	INTERGENIC			
SNP_93730_A_246862	NW_004516574.1	scaffold1348_1	246862	TT	CC	CC	INTERGENIC			
SNP_93731_A_246885	NW_004516574.1	scaffold1348_1	246885	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93732_A_247063	NW_004516574.1	scaffold1348_1	247063	AA	GG	GG	INTERGENIC		
SNP_93733_A_247557	NW_004516574.1	scaffold1348_1	247557	TT	CC	CC	INTERGENIC		
SNP_93734_A_250261	NW_004516574.1	scaffold1348_1	250261	CC	TT	TT	INTERGENIC		
SNP_93735_A_250283	NW_004516574.1	scaffold1348_1	250283	TT	CC	CC	INTERGENIC		
SNP_93736_A_250415	NW_004516574.1	scaffold1348_1	250415	CC	TT	TT	DRR	101498387	uncharacterized LOC101498387
SNP_93737_A_250424	NW_004516574.1	scaffold1348_1	250424	TT	AA	AA	DRR	101498387	uncharacterized LOC101498387
SNP_93738_A_250470	NW_004516574.1	scaffold1348_1	250470	TT	CC	CC	DRR	101498387	uncharacterized LOC101498387
SNP_93739_A_250472	NW_004516574.1	scaffold1348_1	250472	TT	AA	AA	DRR	101498387	uncharacterized LOC101498387
SNP_93740_A_250621	NW_004516574.1	scaffold1348_1	250621	AA	TT	TT	DRR	101498387	uncharacterized LOC101498387
SNP_93741_A_250639	NW_004516574.1	scaffold1348_1	250639	TT	CC	CC	DRR	101498387	uncharacterized LOC101498387
SNP_93742_A_254144	NW_004516574.1	scaffold1348_1	254144	AA	GG	GG	URR	101498387	uncharacterized LOC101498387
SNP_93743_A_259579	NW_004516574.1	scaffold1348_1	259579	AA	GG	GG	INTERGENIC		
SNP_93744_A_261011	NW_004516574.1	scaffold1348_1	261011	TT	CC	CC	INTERGENIC		
SNP_93745_A_261904	NW_004516574.1	scaffold1348_1	261904	AA	GG	GG	INTERGENIC		
SNP_93746_A_261922	NW_004516574.1	scaffold1348_1	261922	CC	TT	TT	INTERGENIC		
SNP_93747_A_261929	NW_004516574.1	scaffold1348_1	261929	AA	GG	GG	INTERGENIC		
SNP_93748_A_261950	NW_004516574.1	scaffold1348_1	261950	TT	CC	CC	INTERGENIC		
SNP_93749_A_262203	NW_004516574.1	scaffold1348_1	262203	TT	GG	GG	INTERGENIC		
SNP_93750_A_262223	NW_004516574.1	scaffold1348_1	262223	TT	CC	CC	INTERGENIC		
SNP_93751_A_265081	NW_004516574.1	scaffold1348_1	265081	GG	AA	AA	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93752_A_265923	NW_004516574.1	scaffold1348_1	265923	CC	AA	AA	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93753_A_267329	NW_004516574.1	scaffold1348_1	267329	AA	CC	CC	INTRON	101498728	SNARE-interacting protein KEULE-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93754_A_267574	NW_004516574.1	scaffold1348_1	267574	AA	CC	CC	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93755_A_268534	NW_004516574.1	scaffold1348_1	268534	GG	AA	AA	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93756_A_269687	NW_004516574.1	scaffold1348_1	269687	TT	CC	CC	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93757_A_271937	NW_004516574.1	scaffold1348_1	271937	GG	AA	AA	INTRON	101498728	SNARE-interacting protein KEULE-like
SNP_93758_A_278910	NW_004516574.1	scaffold1348_1	278910	GG	TT	TT	URR	101498728	SNARE-interacting protein KEULE-like
SNP_93759_A_279000	NW_004516574.1	scaffold1348_1	279000	TT	AA	AA	URR	101498728	SNARE-interacting protein KEULE-like
SNP_93760_A_279769	NW_004516574.1	scaffold1348_1	279769	TT	GG	GG	DRR	101499048	probable protein S-acyltransferase 14
SNP_93761_A_279925	NW_004516574.1	scaffold1348_1	279925	GG	CC	CC	DRR	101499048	probable protein S-acyltransferase 14
SNP_93762_A_280355	NW_004516574.1	scaffold1348_1	280355	TT	CC	CC	INTRON	101499048	probable protein S-acyltransferase 14
SNP_93763_A_280589	NW_004516574.1	scaffold1348_1	280589	GG	AA	AA	INTRON	101499048	probable protein S-acyltransferase 14
SNP_93764_A_280813	NW_004516574.1	scaffold1348_1	280813	AA	GG	GG	INTRON	101499048	probable protein S-acyltransferase 14
SNP_93766_A_282665	NW_004516574.1	scaffold1348_1	282665	GG	AA	AA	URR	101499048	probable protein S-acyltransferase 14
SNP_93767_A_283845	NW_004516574.1	scaffold1348_1	283845	CC	TT	TT	URR	101499048	probable protein S-acyltransferase 14
SNP_93768_A_284325	NW_004516574.1	scaffold1348_1	284325	CC	TT	TT	INTERGENIC		
SNP_93770_A_286499	NW_004516574.1	scaffold1348_1	286499	GG	CC	CC	INTERGENIC		
SNP_93771_A_286603	NW_004516574.1	scaffold1348_1	286603	TT	CC	CC	INTERGENIC		
SNP_93772_A_287185	NW_004516574.1	scaffold1348_1	287185	CC	TT	TT	DRR	101499362	uncharacterized LOC101499362
SNP_93773_A_293853	NW_004516574.1	scaffold1348_1	293853	CC	TT	TT	INTERGENIC		
SNP_93774_A_294456	NW_004516574.1	scaffold1348_1	294456	AA	GG	GG	INTERGENIC		
SNP_93775_A_294458	NW_004516574.1	scaffold1348_1	294458	AA	GG	GG	INTERGENIC		
SNP_93776_A_302567	NW_004516574.1	scaffold1348_1	302567	TT	GG	GG	INTERGENIC		
SNP_93777_A_302592	NW_004516574.1	scaffold1348_1	302592	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93778_A_303350	NW_004516574.1	scaffold1348_1	303350	AA	GG	GG	INTERGENIC		
SNP_93779_A_303998	NW_004516574.1	scaffold1348_1	303998	GG	AA	AA	INTERGENIC		
SNP_93780_A_304010	NW_004516574.1	scaffold1348_1	304010	CC	TT	TT	INTERGENIC		
SNP_93781_A_306906	NW_004516574.1	scaffold1348_1	306906	AA	TT	TT	INTERGENIC		
SNP_93783_A_313746	NW_004516574.1	scaffold1348_1	313746	CC	AA	AA	INTRON	101500517	maspardin
SNP_93784_A_313747	NW_004516574.1	scaffold1348_1	313747	CC	TT	TT	INTRON	101500517	maspardin
SNP_93785_A_315228	NW_004516574.1	scaffold1348_1	315228	TT	GG	GG	URR	101500517	maspardin
SNP_93786_A_315260	NW_004516574.1	scaffold1348_1	315260	CC	GG	GG	URR	101500517	maspardin
SNP_93787_A_315711	NW_004516574.1	scaffold1348_1	315711	GG	AA	AA	URR	101500517	maspardin
SNP_93788_A_315717	NW_004516574.1	scaffold1348_1	315717	TT	CC	CC	URR	101500517	maspardin
SNP_93789_A_315722	NW_004516574.1	scaffold1348_1	315722	TT	CC	CC	URR	101500517	maspardin
SNP_93790_A_316000	NW_004516574.1	scaffold1348_1	316000	CC	TT	TT	URR	101500517	maspardin
SNP_93791_A_318910	NW_004516574.1	scaffold1348_1	318910	CC	AA	AA	INTERGENIC		
SNP_93792_A_318915	NW_004516574.1	scaffold1348_1	318915	CC	TT	TT	INTERGENIC		
SNP_93793_A_319558	NW_004516574.1	scaffold1348_1	319558	AA	GG	GG	INTERGENIC		
SNP_93795_A_323224	NW_004516574.1	scaffold1348_1	323224	CC	AA	AA	DRR	101500840	UDP-glucuronate 4-epimerase 5
SNP_93796_A_326809	NW_004516574.1	scaffold1348_1	326809	CC	TT	TT	URR	101500840	UDP-glucuronate 4-epimerase 5
SNP_93797_A_329139	NW_004516574.1	scaffold1348_1	329139	CC	TT	TT	INTERGENIC		
SNP_93798_A_330650	NW_004516574.1	scaffold1348_1	330650	TT	AA	AA	INTRON	101501165	geraniol 8-hydroxylase-like
SNP_93800_A_334032	NW_004516574.1	scaffold1348_1	334032	TT	CC	CC	URR	101501165	geraniol 8-hydroxylase-like
SNP_93801_A_340354	NW_004516574.1	scaffold1348_1	340354	AA	TT	TT	URR	101501479	uncharacterized LOC101501479
SNP_93802_A_340827	NW_004516574.1	scaffold1348_1	340827	GG	AA	AA	URR	101501479	uncharacterized LOC101501479

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93803_A_340875	NW_004516574.1	scaffold1348_1	340875	AA	GG	GG	URR	101501479	uncharacterized LOC101501479
SNP_93804_A_341134	NW_004516574.1	scaffold1348_1	341134	TT	CC	CC	INTERGENIC		
SNP_93805_A_341135	NW_004516574.1	scaffold1348_1	341135	CC	TT	TT	INTERGENIC		
SNP_93806_A_341139	NW_004516574.1	scaffold1348_1	341139	CC	GG	GG	INTERGENIC		
SNP_93807_A_341143	NW_004516574.1	scaffold1348_1	341143	CC	TT	TT	INTERGENIC		
SNP_93808_A_341151	NW_004516574.1	scaffold1348_1	341151	TT	CC	CC	INTERGENIC		
SNP_93811_A_348332	NW_004516574.1	scaffold1348_1	348332	AA	CC	CC	URR	101502003	uncharacterized LOC101502003
SNP_93812_A_348382	NW_004516574.1	scaffold1348_1	348382	CC	AA	AA	URR	101502003	uncharacterized LOC101502003
SNP_93813_A_349784	NW_004516574.1	scaffold1348_1	349784	CC	TT	TT	INTERGENIC		
SNP_93814_A_350879	NW_004516574.1	scaffold1348_1	350879	AA	GG	GG	DRR	101502959	protein ODORANT1-like
SNP_93815_A_354540	NW_004516574.1	scaffold1348_1	354540	AA	GG	GG	URR	101502959	protein ODORANT1-like
SNP_93816_A_356807	NW_004516574.1	scaffold1348_1	356807	GG	AA	AA	INTERGENIC		
SNP_93817_A_356811	NW_004516574.1	scaffold1348_1	356811	TT	AA	AA	INTERGENIC		
SNP_93818_A_356819	NW_004516574.1	scaffold1348_1	356819	CC	TT	TT	INTERGENIC		
SNP_93819_A_364514	NW_004516574.1	scaffold1348_1	364514	AA	GG	GG	INTERGENIC		
SNP_93820_A_365671	NW_004516574.1	scaffold1348_1	365671	AA	CC	CC	INTERGENIC		
SNP_93821_A_365694	NW_004516574.1	scaffold1348_1	365694	GG	CC	CC	INTERGENIC		
SNP_93822_A_366957	NW_004516574.1	scaffold1348_1	366957	GG	AA	AA	INTERGENIC		
SNP_93823_A_370607	NW_004516574.1	scaffold1348_1	370607	TT	CC	CC	INTERGENIC		
SNP_93824_A_375821	NW_004516574.1	scaffold1348_1	375821	GG	TT	TT	URR	101503284	FAM10 family protein At4g22670
SNP_93825_A_375841	NW_004516574.1	scaffold1348_1	375841	TT	CC	CC	URR	101503284	FAM10 family protein At4g22670
SNP_93826_A_375864	NW_004516574.1	scaffold1348_1	375864	AA	GG	GG	URR	101503284	FAM10 family protein At4g22670

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93827_A_381615	NW_004516574.1	scaffold1348_1	381615	AA	GG	GG	NON_SYNONYMOUS_CODING	101504049	subtilisin-like protease SBT1.2
SNP_93828_A_382444	NW_004516574.1	scaffold1348_1	382444	GG	AA	AA	URR	101504049	subtilisin-like protease SBT1.2
SNP_93829_A_386323	NW_004516574.1	scaffold1348_1	386323	TT	GG	GG	INTERGENIC		
SNP_93830_A_386577	NW_004516574.1	scaffold1348_1	386577	AA	CC	CC	INTERGENIC		
SNP_93831_A_386615	NW_004516574.1	scaffold1348_1	386615	AA	GG	GG	INTERGENIC		
SNP_93832_A_386616	NW_004516574.1	scaffold1348_1	386616	TT	GG	GG	INTERGENIC		
SNP_93833_A_387299	NW_004516574.1	scaffold1348_1	387299	TT	CC	CC	DRR	101504361	PGR5-like protein 1A, chloroplastic
SNP_93834_A_387306	NW_004516574.1	scaffold1348_1	387306	AA	GG	GG	DRR	101504361	PGR5-like protein 1A, chloroplastic
SNP_93835_A_387333	NW_004516574.1	scaffold1348_1	387333	CC	TT	TT	DRR	101504361	PGR5-like protein 1A, chloroplastic
SNP_93837_A_391792	NW_004516574.1	scaffold1348_1	391792	GG	AA	AA	INTRON	101504361	PGR5-like protein 1A, chloroplastic
SNP_93838_A_391795	NW_004516574.1	scaffold1348_1	391795	CC	TT	TT	INTRON	101504361	PGR5-like protein 1A, chloroplastic
SNP_93839_A_392481	NW_004516574.1	scaffold1348_1	392481	GG	AA	AA	URR	101504361	PGR5-like protein 1A, chloroplastic
SNP_93841_A_394492	NW_004516574.1	scaffold1348_1	394492	CC	TT	TT	INTERGENIC		
SNP_93842_A_394522	NW_004516574.1	scaffold1348_1	394522	TT	CC	CC	INTERGENIC		
SNP_93843_A_394528	NW_004516574.1	scaffold1348_1	394528	AA	GG	GG	INTERGENIC		
SNP_93845_A_402413	NW_004516574.1	scaffold1348_1	402413	TT	CC	CC	INTERGENIC		
SNP_93846_A_402519	NW_004516574.1	scaffold1348_1	402519	CC	TT	TT	INTERGENIC		
SNP_93847_A_402532	NW_004516574.1	scaffold1348_1	402532	CC	TT	TT	INTERGENIC		
SNP_93848_A_402534	NW_004516574.1	scaffold1348_1	402534	TT	CC	CC	INTERGENIC		
SNP_93849_A_402539	NW_004516574.1	scaffold1348_1	402539	TT	CC	CC	INTERGENIC		
SNP_93850_A_402706	NW_004516574.1	scaffold1348_1	402706	CC	TT	TT	INTERGENIC		
SNP_93851_A_404184	NW_004516574.1	scaffold1348_1	404184	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93852_A_404193	NW_004516574.1	scaffold1348_1	404193	AA	CC	CC	INTERGENIC		
SNP_93853_A_404368	NW_004516574.1	scaffold1348_1	404368	AA	GG	GG	INTERGENIC		
SNP_93854_A_404386	NW_004516574.1	scaffold1348_1	404386	TT	CC	CC	INTERGENIC		
SNP_93855_A_404946	NW_004516574.1	scaffold1348_1	404946	GG	AA	AA	INTERGENIC		
SNP_93856_A_408849	NW_004516574.1	scaffold1348_1	408849	GG	TT	TT	INTRON	101505010	protein FIZZY-RELATED 1-like
SNP_93858_A_410085	NW_004516574.1	scaffold1348_1	410085	GG	TT	TT	INTERGENIC		
SNP_93859_A_410699	NW_004516574.1	scaffold1348_1	410699	TT	CC	CC	INTERGENIC		
SNP_93860_A_411324	NW_004516574.1	scaffold1348_1	411324	GG	AA	AA	INTERGENIC		
SNP_93861_A_412375	NW_004516574.1	scaffold1348_1	412375	AA	GG	GG	INTERGENIC		
SNP_93862_A_413455	NW_004516574.1	scaffold1348_1	413455	CC	TT	TT	DRR	101505325	agamous-like MADS-box protein AGL19
SNP_93863_A_413489	NW_004516574.1	scaffold1348_1	413489	AA	CC	CC	DRR	101505325	agamous-like MADS-box protein AGL19
SNP_93865_A_418770	NW_004516574.1	scaffold1348_1	418770	AA	GG	GG	INTRON	101505325	agamous-like MADS-box protein AGL19
SNP_93866_A_418810	NW_004516574.1	scaffold1348_1	418810	CC	AA	AA	INTRON	101505325	agamous-like MADS-box protein AGL19
SNP_93867_A_418812	NW_004516574.1	scaffold1348_1	418812	AA	GG	GG	INTRON	101505325	agamous-like MADS-box protein AGL19
SNP_93868_A_418816	NW_004516574.1	scaffold1348_1	418816	CC	TT	TT	INTRON	101505325	agamous-like MADS-box protein AGL19
SNP_93869_A_422444	NW_004516574.1	scaffold1348_1	422444	CC	GG	GG	NON_SYNONYMOUS_CODING	101505325	agamous-like MADS-box protein AGL19
SNP_93871_A_425976	NW_004516574.1	scaffold1348_1	425976	TT	CC	CC	INTERGENIC		
SNP_93872_A_427085	NW_004516574.1	scaffold1348_1	427085	AA	GG	GG	INTERGENIC		
SNP_93873_A_427086	NW_004516574.1	scaffold1348_1	427086	TT	AA	AA	INTERGENIC		
SNP_93874_A_431036	NW_004516574.1	scaffold1348_1	431036	CC	AA	AA	INTERGENIC		
SNP_93875_A_436030	NW_004516574.1	scaffold1348_1	436030	CC	TT	TT	URR	101505867	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase
SNP_93876_A_436373	NW_004516574.1	scaffold1348_1	436373	GG	TT	TT	URR	101505867	bifunctional dTDP-4-dehydrorhamnose 3,5-epimerase/dTDP-4-dehydrorhamnose reductase

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93877_A_436409	NW_004516574.1	scaffold1348_1	436409	CC	TT	TT	URR	101505867	bifunctional dTDP-4-dehydrothiamine 3,5-epimerase/dTDP-4-dehydrothiamine reductase
SNP_93878_A_436680	NW_004516574.1	scaffold1348_1	436680	GG	CC	CC	URR	101505867	bifunctional dTDP-4-dehydrothiamine 3,5-epimerase/dTDP-4-dehydrothiamine reductase
SNP_93879_A_436733	NW_004516574.1	scaffold1348_1	436733	AA	GG	GG	DRR	101506185	molybdenum cofactor sulfurase-like
SNP_93880_A_444696	NW_004516574.1	scaffold1348_1	444696	CC	TT	TT	DRR	101506512	protein HOTHREAD-like
SNP_93881_A_444714	NW_004516574.1	scaffold1348_1	444714	GG	AA	AA	DRR	101506512	protein HOTHREAD-like
SNP_93882_A_444843	NW_004516574.1	scaffold1348_1	444843	TT	CC	CC	DRR	101506512	protein HOTHREAD-like
SNP_93883_A_445388	NW_004516574.1	scaffold1348_1	445388	TT	GG	GG	DRR	101506512	protein HOTHREAD-like
SNP_93884_A_445409	NW_004516574.1	scaffold1348_1	445409	AA	GG	GG	DRR	101506512	protein HOTHREAD-like
SNP_93885_A_445636	NW_004516574.1	scaffold1348_1	445636	GG	AA	AA	DRR	101506512	protein HOTHREAD-like
SNP_93887_A_445699	NW_004516574.1	scaffold1348_1	445699	CC	TT	TT	DRR	101506512	protein HOTHREAD-like
SNP_93888_A_445978	NW_004516574.1	scaffold1348_1	445978	TT	CC	CC	INTRON	101506512	protein HOTHREAD-like
SNP_93889_A_453232	NW_004516574.1	scaffold1348_1	453232	AA	TT	TT	INTRON	101506512	protein HOTHREAD-like
SNP_93890_A_453439	NW_004516574.1	scaffold1348_1	453439	CC	AA	AA	INTRON	101506512	protein HOTHREAD-like
SNP_93892_A_454785	NW_004516574.1	scaffold1348_1	454785	TT	AA	AA	URR	101506512	protein HOTHREAD-like
SNP_93893_A_454786	NW_004516574.1	scaffold1348_1	454786	AA	CC	CC	URR	101506512	protein HOTHREAD-like
SNP_93894_A_458760	NW_004516574.1	scaffold1348_1	458760	AA	CC	CC	DRR	101506843	uncharacterized LOC101506843
SNP_93896_A_461458	NW_004516574.1	scaffold1348_1	461458	AA	GG	GG	INTERGENIC		
SNP_93897_A_463521	NW_004516574.1	scaffold1348_1	463521	AA	TT	TT	URR	101506843	uncharacterized LOC101506843
SNP_93898_A_464930	NW_004516574.1	scaffold1348_1	464930	TT	CC	CC	INTERGENIC		
SNP_93900_A_469348	NW_004516574.1	scaffold1348_1	469348	GG	AA	AA	INTERGENIC		
SNP_93901_A_469354	NW_004516574.1	scaffold1348_1	469354	AA	GG	GG	INTERGENIC		
SNP_93902_A_469356	NW_004516574.1	scaffold1348_1	469356	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93903_A_469357	NW_004516574.1	scaffold1348_1	469357	TT	AA	AA	INTERGENIC		
SNP_93904_A_469360	NW_004516574.1	scaffold1348_1	469360	GG	AA	AA	INTERGENIC		
SNP_93905_A_477984	NW_004516574.1	scaffold1348_1	477984	AA	GG	GG	SYNONYMOUS_CODING	101511223	MATE efflux family protein 5-like
SNP_93906_A_479400	NW_004516574.1	scaffold1348_1	479400	CC	TT	TT	URR	101511223	MATE efflux family protein 5-like
SNP_93907_A_479609	NW_004516574.1	scaffold1348_1	479609	GG	AA	AA	URR	101511223	MATE efflux family protein 5-like
SNP_93908_A_480575	NW_004516574.1	scaffold1348_1	480575	GG	AA	AA	INTERGENIC		
SNP_93909_A_480889	NW_004516574.1	scaffold1348_1	480889	TT	GG	GG	INTERGENIC		
SNP_93910_A_487428	NW_004516574.1	scaffold1348_1	487428	GG	CC	CC	URR	101507805	BAG family molecular chaperone regulator 1-like
SNP_93911_A_492977	NW_004516574.1	scaffold1348_1	492977	TT	GG	GG	DRR	101508855	F-box protein PP2-A12-like
SNP_93912_A_493270	NW_004516574.1	scaffold1348_1	493270	GG	CC	CC	DRR	101508855	F-box protein PP2-A12-like
SNP_93913_A_496838	NW_004516574.1	scaffold1348_1	496838	CC	GG	GG	URR	101508855	F-box protein PP2-A12-like
SNP_93914_A_496870	NW_004516574.1	scaffold1348_1	496870	CC	AA	AA	URR	101508855	F-box protein PP2-A12-like
SNP_93915_A_496944	NW_004516574.1	scaffold1348_1	496944	CC	TT	TT	URR	101508855	F-box protein PP2-A12-like
SNP_93917_A_498129	NW_004516574.1	scaffold1348_1	498129	GG	AA	AA	DRR	101509178	scarecrow-like protein 28
SNP_93918_A_503207	NW_004516574.1	scaffold1348_1	503207	CC	TT	TT	URR	101509178	scarecrow-like protein 28
SNP_93919_A_503304	NW_004516574.1	scaffold1348_1	503304	CC	AA	AA	URR	101509178	scarecrow-like protein 28
SNP_93920_A_503402	NW_004516574.1	scaffold1348_1	503402	GG	AA	AA	URR	101509178	scarecrow-like protein 28
SNP_93922_A_503708	NW_004516574.1	scaffold1348_1	503708	TT	CC	CC	URR	101509178	scarecrow-like protein 28
SNP_93923_A_508178	NW_004516574.1	scaffold1348_1	508178	CC	TT	TT	INTRON	101509507	plant UBX domain-containing protein 8
SNP_93924_A_509884	NW_004516574.1	scaffold1348_1	509884	TT	GG	GG	URR	101509507	plant UBX domain-containing protein 8
SNP_93926_A_510765	NW_004516574.1	scaffold1348_1	510765	TT	CC	CC	URR	101509507	plant UBX domain-containing protein 8
SNP_93927_A_510980	NW_004516574.1	scaffold1348_1	510980	GG	AA	AA	URR	101509507	plant UBX domain-containing protein 8

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93929_A_511300	NW_004516574.1	scaffold1348_1	511300	GG	AA	AA	URR	101509507	plant UBX domain-containing protein 8
SNP_93930_A_522205	NW_004516574.1	scaffold1348_1	522205	GG	TT	TT	URR	101509829	phosphatidylinositol glycan anchor biosynthesis class U protein
SNP_93931_A_522234	NW_004516574.1	scaffold1348_1	522234	GG	AA	AA	URR	101509829	phosphatidylinositol glycan anchor biosynthesis class U protein
SNP_93932_A_524937	NW_004516574.1	scaffold1348_1	524937	GG	AA	AA	INTERGENIC		
SNP_93933_A_525273	NW_004516574.1	scaffold1348_1	525273	AA	GG	GG	INTERGENIC		
SNP_93934_A_525282	NW_004516574.1	scaffold1348_1	525282	GG	AA	AA	INTERGENIC		
SNP_93936_A_525607	NW_004516574.1	scaffold1348_1	525607	GG	AA	AA	INTERGENIC		
SNP_93937_A_525853	NW_004516574.1	scaffold1348_1	525853	CC	GG	GG	INTERGENIC		
SNP_93938_A_529940	NW_004516574.1	scaffold1348_1	529940	TT	AA	AA	INTERGENIC		
SNP_93939_A_531412	NW_004516574.1	scaffold1348_1	531412	CC	AA	AA	INTERGENIC		
SNP_93940_A_531419	NW_004516574.1	scaffold1348_1	531419	AA	CC	CC	INTERGENIC		
SNP_93941_A_531441	NW_004516574.1	scaffold1348_1	531441	CC	TT	TT	INTERGENIC		
SNP_93942_A_537020	NW_004516574.1	scaffold1348_1	537020	CC	GG	GG	DRR	101410559	transfer RNA valine (anticodon AAC)
SNP_93943_A_537037	NW_004516574.1	scaffold1348_1	537037	TT	CC	CC	DRR	101410559	transfer RNA valine (anticodon AAC)
SNP_93944_A_537355	NW_004516574.1	scaffold1348_1	537355	GG	TT	TT	URR	101510364	protein IQ-DOMAIN 14
SNP_93945_A_537691	NW_004516574.1	scaffold1348_1	537691	CC	AA	AA	URR	101510364	protein IQ-DOMAIN 14
SNP_93946_A_538710	NW_004516574.1	scaffold1348_1	538710	GG	AA	AA	DRR	101510692	replication factor C subunit 2
SNP_93947_A_543614	NW_004516574.1	scaffold1348_1	543614	AA	CC	CC	URR	101510692	replication factor C subunit 2
SNP_93948_A_548861	NW_004516574.1	scaffold1348_1	548861	TT	GG	GG	INTRON	101511011	E3 ubiquitin-protein ligase At1g12760
SNP_93950_A_549831	NW_004516574.1	scaffold1348_1	549831	TT	CC	CC	INTRON	101511011	E3 ubiquitin-protein ligase At1g12760
SNP_93953_A_565662	NW_004516574.1	scaffold1348_1	565662	CC	TT	TT	INTERGENIC		
SNP_93955_A_569849	NW_004516574.1	scaffold1348_1	569849	CC	GG	GG	DRR	101511969	protein SHOOT GRAVITROPISM 5

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93956_A_576623	NW_004516574.1	scaffold1348_1	576623	TT	AA	AA	DRR	101410551	transfer RNA leucine (anticodon AAG)
SNP_93957_A_577819	NW_004516574.1	scaffold1348_1	577819	AA	GG	GG	URR	101410551	transfer RNA leucine (anticodon AAG)
SNP_93958_A_577846	NW_004516574.1	scaffold1348_1	577846	TT	GG	GG	URR	101410551	transfer RNA leucine (anticodon AAG)
SNP_93959_A_577866	NW_004516574.1	scaffold1348_1	577866	TT	CC	CC	URR	101410551	transfer RNA leucine (anticodon AAG)
SNP_93961_A_579526	NW_004516574.1	scaffold1348_1	579526	AA	TT	TT	INTERGENIC		
SNP_93962_A_582264	NW_004516574.1	scaffold1348_1	582264	TT	CC	CC	INTERGENIC		
SNP_93963_A_582281	NW_004516574.1	scaffold1348_1	582281	TT	CC	CC	INTERGENIC		
SNP_93964_A_582649	NW_004516574.1	scaffold1348_1	582649	AA	TT	TT	INTERGENIC		
SNP_93965_A_585200	NW_004516574.1	scaffold1348_1	585200	TT	AA	AA	INTRON	101512298	deoxycytidylate deaminase
SNP_93966_A_585595	NW_004516574.1	scaffold1348_1	585595	CC	TT	TT	INTRON	101512298	deoxycytidylate deaminase
SNP_93967_A_585778	NW_004516574.1	scaffold1348_1	585778	GG	CC	CC	INTRON	101512298	deoxycytidylate deaminase
SNP_93968_A_585812	NW_004516574.1	scaffold1348_1	585812	GG	TT	TT	INTRON	101512298	deoxycytidylate deaminase
SNP_93969_A_585820	NW_004516574.1	scaffold1348_1	585820	TT	CC	CC	INTRON	101512298	deoxycytidylate deaminase
SNP_93970_A_585825	NW_004516574.1	scaffold1348_1	585825	CC	TT	TT	INTRON	101512298	deoxycytidylate deaminase
SNP_93971_A_589294	NW_004516574.1	scaffold1348_1	589294	TT	CC	CC	INTERGENIC		
SNP_93972_A_593109	NW_004516574.1	scaffold1348_1	593109	GG	AA	AA	URR	101512631	ATP synthase delta chain, chloroplastic
SNP_93973_A_593164	NW_004516574.1	scaffold1348_1	593164	AA	GG	GG	URR	101512631	ATP synthase delta chain, chloroplastic
SNP_93974_A_593443	NW_004516574.1	scaffold1348_1	593443	CC	GG	GG	URR	101512631	ATP synthase delta chain, chloroplastic
SNP_93975_A_594191	NW_004516574.1	scaffold1348_1	594191	CC	TT	TT	INTERGENIC		
SNP_93976_A_594241	NW_004516574.1	scaffold1348_1	594241	AA	CC	CC	INTERGENIC		
SNP_93978_A_595939	NW_004516574.1	scaffold1348_1	595939	CC	TT	TT	INTERGENIC		
SNP_93979_A_596156	NW_004516574.1	scaffold1348_1	596156	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_93980_A_596970	NW_004516574.1	scaffold1348_1	596970	TT	CC	CC	DRR	101512939	subtilisin-like protease SBT5.3
SNP_93981_A_597071	NW_004516574.1	scaffold1348_1	597071	CC	AA	AA	DRR	101512939	subtilisin-like protease SBT5.3
SNP_93982_A_602527	NW_004516574.1	scaffold1348_1	602527	TT	CC	CC	URR	101512939	subtilisin-like protease SBT5.3
SNP_93983_A_602910	NW_004516574.1	scaffold1348_1	602910	AA	GG	GG	URR	101512939	subtilisin-like protease SBT5.3
SNP_93984_A_603445	NW_004516574.1	scaffold1348_1	603445	TT	AA	AA	URR	101512939	subtilisin-like protease SBT5.3
SNP_93985_A_603512	NW_004516574.1	scaffold1348_1	603512	CC	TT	TT	URR	101512939	subtilisin-like protease SBT5.3
SNP_93986_A_604714	NW_004516574.1	scaffold1348_1	604714	GG	AA	AA	INTERGENIC		
SNP_93987_A_604729	NW_004516574.1	scaffold1348_1	604729	TT	CC	CC	INTERGENIC		
SNP_93988_A_605005	NW_004516574.1	scaffold1348_1	605005	GG	AA	AA	INTERGENIC		
SNP_93989_A_605319	NW_004516574.1	scaffold1348_1	605319	CC	TT	TT	INTERGENIC		
SNP_93990_A_605496	NW_004516574.1	scaffold1348_1	605496	AA	TT	TT	INTERGENIC		
SNP_93991_A_632024	NW_004516574.1	scaffold1348_1	632024	GG	AA	AA	INTRON	101512185	subtilisin-like protease SBT5.4
SNP_93992_A_633516	NW_004516574.1	scaffold1348_1	633516	GG	AA	AA	SYNONYMOUS_CODING	101512185	subtilisin-like protease SBT5.4
SNP_93994_A_633759	NW_004516574.1	scaffold1348_1	633759	AA	GG	GG	NON_SYNONYMOUS_CODING	101512185	subtilisin-like protease SBT5.4
SNP_93995_A_634840	NW_004516574.1	scaffold1348_1	634840	TT	CC	CC	URR	101512185	subtilisin-like protease SBT5.4
SNP_93996_A_635114	NW_004516574.1	scaffold1348_1	635114	TT	CC	CC	URR	101512185	subtilisin-like protease SBT5.4
SNP_93997_A_635246	NW_004516574.1	scaffold1348_1	635246	AA	GG	GG	URR	101512185	subtilisin-like protease SBT5.4
SNP_93998_A_635853	NW_004516574.1	scaffold1348_1	635853	CC	TT	TT	INTERGENIC		
SNP_93999_A_635896	NW_004516574.1	scaffold1348_1	635896	TT	CC	CC	INTERGENIC		
SNP_94000_A_641622	NW_004516574.1	scaffold1348_1	641622	TT	AA	AA	INTERGENIC		
SNP_94001_A_641903	NW_004516574.1	scaffold1348_1	641903	CC	TT	TT	INTERGENIC		
SNP_94002_A_644760	NW_004516574.1	scaffold1348_1	644760	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94003_A_644830	NW_004516574.1	scaffold1348_1	644830	CC	AA	AA	INTERGENIC		
SNP_94004_A_645900	NW_004516574.1	scaffold1348_1	645900	GG	TT	TT	INTERGENIC		
SNP_94005_A_646077	NW_004516574.1	scaffold1348_1	646077	GG	CC	CC	INTERGENIC		
SNP_94006_A_646108	NW_004516574.1	scaffold1348_1	646108	AA	GG	GG	INTERGENIC		
SNP_94007_A_646118	NW_004516574.1	scaffold1348_1	646118	CC	TT	TT	INTERGENIC		
SNP_94008_A_646122	NW_004516574.1	scaffold1348_1	646122	TT	CC	CC	INTERGENIC		
SNP_94009_A_646214	NW_004516574.1	scaffold1348_1	646214	AA	GG	GG	INTERGENIC		
SNP_94010_A_646380	NW_004516574.1	scaffold1348_1	646380	TT	AA	AA	INTERGENIC		
SNP_94011_A_646385	NW_004516574.1	scaffold1348_1	646385	GG	CC	CC	INTERGENIC		
SNP_94012_A_647462	NW_004516574.1	scaffold1348_1	647462	GG	TT	TT	INTERGENIC		
SNP_94013_A_647488	NW_004516574.1	scaffold1348_1	647488	GG	CC	CC	INTERGENIC		
SNP_94014_A_648062	NW_004516574.1	scaffold1348_1	648062	CC	TT	TT	INTERGENIC		
SNP_94015_A_651291	NW_004516574.1	scaffold1348_1	651291	GG	AA	AA	INTRON	101512510	subtilisin-like protease SBT5.4
SNP_94016_A_651299	NW_004516574.1	scaffold1348_1	651299	TT	GG	GG	INTRON	101512510	subtilisin-like protease SBT5.4
SNP_94017_A_651592	NW_004516574.1	scaffold1348_1	651592	TT	AA	AA	INTRON	101512510	subtilisin-like protease SBT5.4
SNP_94018_A_653566	NW_004516574.1	scaffold1348_1	653566	GG	AA	AA	INTRON	101512510	subtilisin-like protease SBT5.4
SNP_94019_A_654182	NW_004516574.1	scaffold1348_1	654182	TT	AA	AA	INTRON	101512510	subtilisin-like protease SBT5.4
SNP_94020_A_657438	NW_004516574.1	scaffold1348_1	657438	GG	TT	TT	INTERGENIC		
SNP_94021_A_661643	NW_004516574.1	scaffold1348_1	661643	CC	TT	TT	INTERGENIC		
SNP_94022_A_662831	NW_004516574.1	scaffold1348_1	662831	AA	GG	GG	INTERGENIC		
SNP_94023_A_662877	NW_004516574.1	scaffold1348_1	662877	CC	TT	TT	INTERGENIC		
SNP_94024_A_663082	NW_004516574.1	scaffold1348_1	663082	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94025_A_664685	NW_004516574.1	scaffold1348_1	664685	AA	GG	GG	DRR	101513266	subtilisin-like protease SBT5.4
SNP_94026_A_664686	NW_004516574.1	scaffold1348_1	664686	CC	TT	TT	DRR	101513266	subtilisin-like protease SBT5.4
SNP_94027_A_664693	NW_004516574.1	scaffold1348_1	664693	GG	AA	AA	DRR	101513266	subtilisin-like protease SBT5.4
SNP_94029_A_669473	NW_004516574.1	scaffold1348_1	669473	TT	AA	AA	INTRON	101513266	subtilisin-like protease SBT5.4
SNP_94030_A_672827	NW_004516574.1	scaffold1348_1	672827	CC	GG	GG	INTERGENIC		
SNP_94031_A_673716	NW_004516574.1	scaffold1348_1	673716	GG	AA	AA	INTERGENIC		
SNP_94032_A_675449	NW_004516574.1	scaffold1348_1	675449	CC	AA	AA	INTERGENIC		
SNP_94033_A_675522	NW_004516574.1	scaffold1348_1	675522	TT	GG	GG	INTERGENIC		
SNP_94034_A_677091	NW_004516574.1	scaffold1348_1	677091	AA	GG	GG	INTERGENIC		
SNP_94035_A_677135	NW_004516574.1	scaffold1348_1	677135	AA	CC	CC	INTERGENIC		
SNP_94036_A_680730	NW_004516574.1	scaffold1348_1	680730	CC	TT	TT	NON_SYNONYMOUS_CODING	101512820	subtilisin-like protease SBT5.3
SNP_94037_A_680734	NW_004516574.1	scaffold1348_1	680734	GG	TT	TT	NON_SYNONYMOUS_CODING	101512820	subtilisin-like protease SBT5.3
SNP_94038_A_681066	NW_004516574.1	scaffold1348_1	681066	GG	CC	CC	INTRON	101512820	subtilisin-like protease SBT5.3
SNP_94039_A_681403	NW_004516574.1	scaffold1348_1	681403	TT	AA	AA	INTRON	101512820	subtilisin-like protease SBT5.3
SNP_94040_A_683464	NW_004516574.1	scaffold1348_1	683464	TT	GG	GG	URR	101512820	subtilisin-like protease SBT5.3
SNP_94041_A_683465	NW_004516574.1	scaffold1348_1	683465	TT	GG	GG	URR	101512820	subtilisin-like protease SBT5.3
SNP_94042_A_685315	NW_004516574.1	scaffold1348_1	685315	TT	CC	CC	INTERGENIC		
SNP_94043_A_685749	NW_004516574.1	scaffold1348_1	685749	CC	TT	TT	INTERGENIC		
SNP_94044_A_685770	NW_004516574.1	scaffold1348_1	685770	GG	AA	AA	INTERGENIC		
SNP_94045_A_685929	NW_004516574.1	scaffold1348_1	685929	TT	AA	AA	INTERGENIC		
SNP_94046_A_685932	NW_004516574.1	scaffold1348_1	685932	GG	AA	AA	INTERGENIC		
SNP_94047_A_686012	NW_004516574.1	scaffold1348_1	686012	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94048_A_686081	NW_004516574.1	scaffold1348_1	686081	TT	GG	GG	INTERGENIC		
SNP_94049_A_686086	NW_004516574.1	scaffold1348_1	686086	CC	TT	TT	INTERGENIC		
SNP_94050_A_686292	NW_004516574.1	scaffold1348_1	686292	GG	AA	AA	INTERGENIC		
SNP_94051_A_686422	NW_004516574.1	scaffold1348_1	686422	AA	GG	GG	INTERGENIC		
SNP_94052_A_686900	NW_004516574.1	scaffold1348_1	686900	AA	CC	CC	DRR	101513594	probable inactive purple acid phosphatase 27
SNP_94053_A_687296	NW_004516574.1	scaffold1348_1	687296	AA	GG	GG	DRR	101513594	probable inactive purple acid phosphatase 27
SNP_94054_A_687365	NW_004516574.1	scaffold1348_1	687365	CC	GG	GG	DRR	101513594	probable inactive purple acid phosphatase 27
SNP_94055_A_688246	NW_004516574.1	scaffold1348_1	688246	AA	CC	CC	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94056_A_688617	NW_004516574.1	scaffold1348_1	688617	GG	AA	AA	SYNONYMOUS_CODING	101513594	probable inactive purple acid phosphatase 27
SNP_94057_A_689062	NW_004516574.1	scaffold1348_1	689062	AA	TT	TT	SYNONYMOUS_CODING	101513594	probable inactive purple acid phosphatase 27
SNP_94058_A_689212	NW_004516574.1	scaffold1348_1	689212	TT	CC	CC	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94059_A_689240	NW_004516574.1	scaffold1348_1	689240	CC	TT	TT	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94060_A_690412	NW_004516574.1	scaffold1348_1	690412	AA	CC	CC	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94061_A_690413	NW_004516574.1	scaffold1348_1	690413	CC	TT	TT	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94062_A_690697	NW_004516574.1	scaffold1348_1	690697	AA	GG	GG	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94063_A_691147	NW_004516574.1	scaffold1348_1	691147	AA	GG	GG	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94064_A_691205	NW_004516574.1	scaffold1348_1	691205	AA	CC	CC	INTRON	101513594	probable inactive purple acid phosphatase 27
SNP_94065_A_696856	NW_004516574.1	scaffold1348_1	696856	AA	GG	GG	INTERGENIC		
SNP_94066_A_696864	NW_004516574.1	scaffold1348_1	696864	AA	GG	GG	INTERGENIC		
SNP_94067_A_698185	NW_004516574.1	scaffold1348_1	698185	TT	CC	CC	INTERGENIC		
SNP_94068_A_700551	NW_004516574.1	scaffold1348_1	700551	GG	TT	TT	INTERGENIC		
SNP_94069_A_700993	NW_004516574.1	scaffold1348_1	700993	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94070_A_702137	NW_004516574.1	scaffold1348_1	702137	AA	TT	TT	INTERGENIC		
SNP_94071_A_702140	NW_004516574.1	scaffold1348_1	702140	AA	GG	GG	INTERGENIC		
SNP_94073_A_702236	NW_004516574.1	scaffold1348_1	702236	AA	GG	GG	INTERGENIC		
SNP_94074_A_702412	NW_004516574.1	scaffold1348_1	702412	CC	AA	AA	INTERGENIC		
SNP_94077_A_713633	NW_004516574.1	scaffold1348_1	713633	TT	CC	CC	DRR	101514567	uncharacterized LOC101514567
SNP_94078_A_716662	NW_004516574.1	scaffold1348_1	716662	CC	GG	GG	INTERGENIC		
SNP_94079_A_721979	NW_004516574.1	scaffold1348_1	721979	TT	CC	CC	INTERGENIC		
SNP_94080_A_725984	NW_004516574.1	scaffold1348_1	725984	GG	TT	TT	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94081_A_726644	NW_004516574.1	scaffold1348_1	726644	CC	TT	TT	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94082_A_726667	NW_004516574.1	scaffold1348_1	726667	CC	TT	TT	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94083_A_726671	NW_004516574.1	scaffold1348_1	726671	CC	TT	TT	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94084_A_726672	NW_004516574.1	scaffold1348_1	726672	TT	CC	CC	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94085_A_726692	NW_004516574.1	scaffold1348_1	726692	AA	GG	GG	URR	101515098	SWI/SNF complex component SNF12 homolog
SNP_94086_A_731056	NW_004516574.1	scaffold1348_1	731056	CC	GG	GG	INTRON	101515422	uncharacterized LOC101515422
SNP_94087_A_743690	NW_004516574.1	scaffold1348_1	743690	TT	CC	CC	INTERGENIC		
SNP_94088_A_743693	NW_004516574.1	scaffold1348_1	743693	CC	AA	AA	INTERGENIC		
SNP_94089_A_744381	NW_004516574.1	scaffold1348_1	744381	AA	TT	TT	DRR	101515754	conserved oligomeric Golgi complex subunit 2
SNP_94090_A_744386	NW_004516574.1	scaffold1348_1	744386	CC	TT	TT	DRR	101515754	conserved oligomeric Golgi complex subunit 2
SNP_94092_A_752124	NW_004516574.1	scaffold1348_1	752124	GG	AA	AA	INTERGENIC		
SNP_94093_A_752911	NW_004516574.1	scaffold1348_1	752911	AA	GG	GG	URR	101515754	conserved oligomeric Golgi complex subunit 2
SNP_94094_A_753258	NW_004516574.1	scaffold1348_1	753258	TT	CC	CC	DRR	101489181	uridine kinase-like protein 2, chloroplastic
SNP_94095_A_753265	NW_004516574.1	scaffold1348_1	753265	AA	GG	GG	DRR	101489181	uridine kinase-like protein 2, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94096_A_753308	NW_004516574.1	scaffold1348_1	753308	TT	GG	GG	DRR	101489181	uridine kinase-like protein 2, chloroplastic
SNP_94097_A_760603	NW_004516574.1	scaffold1348_1	760603	CC	TT	TT	URR	101489181	uridine kinase-like protein 2, chloroplastic
SNP_94099_A_766376	NW_004516574.1	scaffold1348_1	766376	AA	CC	CC	URR	101488854	putative calcium-binding protein CML19
SNP_94100_A_766407	NW_004516574.1	scaffold1348_1	766407	TT	AA	AA	URR	101488854	putative calcium-binding protein CML19
SNP_94101_A_767012	NW_004516574.1	scaffold1348_1	767012	CC	TT	TT	DRR	101488512	FBD-associated F-box protein At3g52670-like
SNP_94102_A_767014	NW_004516574.1	scaffold1348_1	767014	TT	AA	AA	DRR	101488512	FBD-associated F-box protein At3g52670-like
SNP_94103_A_767221	NW_004516574.1	scaffold1348_1	767221	GG	AA	AA	DRR	101488512	FBD-associated F-box protein At3g52670-like
SNP_94104_A_767951	NW_004516574.1	scaffold1348_1	767951	TT	CC	CC	INTERGENIC		
SNP_94105_A_769175	NW_004516574.1	scaffold1348_1	769175	TT	CC	CC	INTERGENIC		
SNP_94106_A_772715	NW_004516574.1	scaffold1348_1	772715	AA	GG	GG	INTERGENIC		
SNP_94107_A_777770	NW_004516574.1	scaffold1348_1	777770	AA	TT	TT	INTERGENIC		
SNP_94108_A_781058	NW_004516574.1	scaffold1348_1	781058	GG	AA	AA	INTERGENIC		
SNP_94109_A_787740	NW_004516574.1	scaffold1348_1	787740	AA	GG	GG	INTERGENIC		
SNP_94110_A_787743	NW_004516574.1	scaffold1348_1	787743	TT	CC	CC	INTERGENIC		
SNP_94111_A_788695	NW_004516574.1	scaffold1348_1	788695	AA	TT	TT	INTERGENIC		
SNP_94112_A_788706	NW_004516574.1	scaffold1348_1	788706	AA	TT	TT	INTERGENIC		
SNP_94113_A_788848	NW_004516574.1	scaffold1348_1	788848	GG	AA	AA	INTERGENIC		
SNP_94114_A_789112	NW_004516574.1	scaffold1348_1	789112	TT	CC	CC	INTERGENIC		
SNP_94115_A_789852	NW_004516574.1	scaffold1348_1	789852	TT	GG	GG	INTERGENIC		
SNP_94116_A_790279	NW_004516574.1	scaffold1348_1	790279	GG	AA	AA	DRR	101489827	probable acyl-activating enzyme 2
SNP_94117_A_790320	NW_004516574.1	scaffold1348_1	790320	GG	AA	AA	DRR	101489827	probable acyl-activating enzyme 2
SNP_94118_A_790339	NW_004516574.1	scaffold1348_1	790339	GG	AA	AA	DRR	101489827	probable acyl-activating enzyme 2

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94119_A_790381	NW_004516574.1	scaffold1348_1	790381	AA	GG	GG	DRR	101489827	probable acyl-activating enzyme 2
SNP_94120_A_792651	NW_004516574.1	scaffold1348_1	792651	CC	TT	TT	INTRON	101489827	probable acyl-activating enzyme 2
SNP_94121_A_792655	NW_004516574.1	scaffold1348_1	792655	TT	CC	CC	INTRON	101489827	probable acyl-activating enzyme 2
SNP_94122_A_792842	NW_004516574.1	scaffold1348_1	792842	AA	GG	GG	INTRON	101489827	probable acyl-activating enzyme 2
SNP_94123_A_795080	NW_004516574.1	scaffold1348_1	795080	AA	GG	GG	INTERGENIC		
SNP_94124_A_811028	NW_004516574.1	scaffold1348_1	811028	CC	TT	TT	INTRON	101513472	uncharacterized LOC101513472
SNP_94125_A_814999	NW_004516574.1	scaffold1348_1	814999	CC	GG	GG	NON_SYNONYMOUS_CODING	101513472	uncharacterized LOC101513472
SNP_94126_A_816613	NW_004516574.1	scaffold1348_1	816613	CC	TT	TT	URR	101513472	uncharacterized LOC101513472
SNP_94127_A_817264	NW_004516574.1	scaffold1348_1	817264	CC	TT	TT	URR	101513472	uncharacterized LOC101513472
SNP_94128_A_817331	NW_004516574.1	scaffold1348_1	817331	AA	GG	GG	URR	101513472	uncharacterized LOC101513472
SNP_94129_A_817504	NW_004516574.1	scaffold1348_1	817504	GG	TT	TT	INTERGENIC		
SNP_94130_A_818099	NW_004516574.1	scaffold1348_1	818099	GG	AA	AA	INTERGENIC		
SNP_94131_A_818128	NW_004516574.1	scaffold1348_1	818128	GG	TT	TT	INTERGENIC		
SNP_94132_A_818237	NW_004516574.1	scaffold1348_1	818237	CC	TT	TT	INTERGENIC		
SNP_94133_A_818289	NW_004516574.1	scaffold1348_1	818289	CC	TT	TT	INTERGENIC		
SNP_94135_A_822355	NW_004516574.1	scaffold1348_1	822355	TT	CC	CC	INTERGENIC		
SNP_94136_A_822760	NW_004516574.1	scaffold1348_1	822760	TT	GG	GG	DRR	101490154	nucleolar protein 56
SNP_94137_A_826053	NW_004516574.1	scaffold1348_1	826053	AA	GG	GG	NON_SYNONYMOUS_CODING	NOP56	Unknown function
SNP_94138_A_830773	NW_004516574.1	scaffold1348_1	830773	TT	CC	CC	DOWNSTREAM	NOP56	Unknown function
SNP_94139_A_832028	NW_004516574.1	scaffold1348_1	832028	CC	AA	AA	INTERGENIC		
SNP_94140_A_832032	NW_004516574.1	scaffold1348_1	832032	TT	CC	CC	INTERGENIC		
SNP_94141_A_833371	NW_004516574.1	scaffold1348_1	833371	AA	GG	GG	DRR	101490478	adenylate kinase 4

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94142_A_841407	NW_004516574.1	scaffold1348_1	841407	TT	AA	AA	INTERGENIC		
SNP_94143_A_845538	NW_004516574.1	scaffold1348_1	845538	AA	CC	CC	INTRON	101490803	cyclin-dependent kinase G-2
SNP_94144_A_845541	NW_004516574.1	scaffold1348_1	845541	TT	AA	AA	INTRON	101490803	cyclin-dependent kinase G-2
SNP_94145_A_847705	NW_004516574.1	scaffold1348_1	847705	AA	GG	GG	URR	101490803	cyclin-dependent kinase G-2
SNP_94146_A_849780	NW_004516574.1	scaffold1348_1	849780	CC	AA	AA	INTERGENIC		
SNP_94147_A_850028	NW_004516574.1	scaffold1348_1	850028	GG	TT	TT	INTERGENIC		
SNP_94148_A_850045	NW_004516574.1	scaffold1348_1	850045	TT	CC	CC	INTERGENIC		
SNP_94149_A_851437	NW_004516574.1	scaffold1348_1	851437	CC	TT	TT	INTERGENIC		
SNP_94150_A_852254	NW_004516574.1	scaffold1348_1	852254	CC	TT	TT	INTERGENIC		
SNP_94151_A_855364	NW_004516574.1	scaffold1348_1	855364	TT	AA	AA	INTERGENIC		
SNP_94152_A_855746	NW_004516574.1	scaffold1348_1	855746	AA	GG	GG	INTERGENIC		
SNP_94153_A_855748	NW_004516574.1	scaffold1348_1	855748	CC	TT	TT	INTERGENIC		
SNP_94154_A_855749	NW_004516574.1	scaffold1348_1	855749	AA	GG	GG	INTERGENIC		
SNP_94155_A_856033	NW_004516574.1	scaffold1348_1	856033	TT	CC	CC	INTERGENIC		
SNP_94156_A_856036	NW_004516574.1	scaffold1348_1	856036	TT	CC	CC	INTERGENIC		
SNP_94157_A_856037	NW_004516574.1	scaffold1348_1	856037	GG	TT	TT	INTERGENIC		
SNP_94158_A_856112	NW_004516574.1	scaffold1348_1	856112	TT	CC	CC	INTERGENIC		
SNP_94159_A_856117	NW_004516574.1	scaffold1348_1	856117	AA	CC	CC	INTERGENIC		
SNP_94160_A_856213	NW_004516574.1	scaffold1348_1	856213	CC	TT	TT	INTERGENIC		
SNP_94161_A_856218	NW_004516574.1	scaffold1348_1	856218	TT	CC	CC	INTERGENIC		
SNP_94162_A_856267	NW_004516574.1	scaffold1348_1	856267	CC	TT	TT	INTERGENIC		
SNP_94163_A_856423	NW_004516574.1	scaffold1348_1	856423	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94165_A_856878	NW_004516574.1	scaffold1348_1	856878	TT	AA	AA	INTERGENIC		
SNP_94167_A_857151	NW_004516574.1	scaffold1348_1	857151	CC	TT	TT	INTERGENIC		
SNP_94168_A_857153	NW_004516574.1	scaffold1348_1	857153	AA	GG	GG	INTERGENIC		
SNP_94169_A_857211	NW_004516574.1	scaffold1348_1	857211	AA	TT	TT	INTERGENIC		
SNP_94170_A_857264	NW_004516574.1	scaffold1348_1	857264	AA	GG	GG	INTERGENIC		
SNP_94171_A_857269	NW_004516574.1	scaffold1348_1	857269	GG	AA	AA	INTERGENIC		
SNP_94172_A_857281	NW_004516574.1	scaffold1348_1	857281	TT	AA	AA	INTERGENIC		
SNP_94173_A_857770	NW_004516574.1	scaffold1348_1	857770	TT	CC	CC	INTERGENIC		
SNP_94174_A_857806	NW_004516574.1	scaffold1348_1	857806	TT	CC	CC	INTERGENIC		
SNP_94175_A_857815	NW_004516574.1	scaffold1348_1	857815	TT	GG	GG	INTERGENIC		
SNP_94176_A_861406	NW_004516574.1	scaffold1348_1	861406	AA	CC	CC	URR	101491129	uncharacterized LOC101491129
SNP_94177_A_861865	NW_004516574.1	scaffold1348_1	861865	AA	TT	TT	URR	101491129	uncharacterized LOC101491129
SNP_94178_A_861871	NW_004516574.1	scaffold1348_1	861871	TT	GG	GG	URR	101491129	uncharacterized LOC101491129
SNP_94179_A_862045	NW_004516574.1	scaffold1348_1	862045	TT	CC	CC	URR	101491129	uncharacterized LOC101491129
SNP_94180_A_862129	NW_004516574.1	scaffold1348_1	862129	AA	GG	GG	URR	101491129	uncharacterized LOC101491129
SNP_94181_A_862143	NW_004516574.1	scaffold1348_1	862143	AA	TT	TT	URR	101491129	uncharacterized LOC101491129
SNP_94182_A_867138	NW_004516574.1	scaffold1348_1	867138	GG	AA	AA	URR	101513783	lysine histidine transporter 1-like
SNP_94183_A_867192	NW_004516574.1	scaffold1348_1	867192	AA	TT	TT	URR	101513783	lysine histidine transporter 1-like
SNP_94184_A_868334	NW_004516574.1	scaffold1348_1	868334	AA	TT	TT	INTERGENIC		
SNP_94185_A_868351	NW_004516574.1	scaffold1348_1	868351	AA	TT	TT	INTERGENIC		
SNP_94186_A_868354	NW_004516574.1	scaffold1348_1	868354	TT	AA	AA	INTERGENIC		
SNP_94187_A_868426	NW_004516574.1	scaffold1348_1	868426	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94188_A_868448	NW_004516574.1	scaffold1348_1	868448	CC	AA	AA	INTERGENIC		
SNP_94189_A_868464	NW_004516574.1	scaffold1348_1	868464	AA	TT	TT	INTERGENIC		
SNP_94190_A_868587	NW_004516574.1	scaffold1348_1	868587	TT	CC	CC	DRR	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94191_A_868731	NW_004516574.1	scaffold1348_1	868731	AA	CC	CC	DRR	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94192_A_869267	NW_004516574.1	scaffold1348_1	869267	TT	CC	CC	DRR	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94193_A_869302	NW_004516574.1	scaffold1348_1	869302	CC	TT	TT	DRR	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94195_A_869533	NW_004516574.1	scaffold1348_1	869533	GG	TT	TT	DRR	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94196_A_871254	NW_004516574.1	scaffold1348_1	871254	AA	CC	CC	INTRON	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94197_A_871960	NW_004516574.1	scaffold1348_1	871960	CC	AA	AA	INTRON	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94198_A_872330	NW_004516574.1	scaffold1348_1	872330	TT	CC	CC	INTRON	101491441	glyceraldehyde-3-phosphate dehydrogenase, cytosolic
SNP_94199_A_876009	NW_004516574.1	scaffold1348_1	876009	GG	AA	AA	INTERGENIC		
SNP_94200_A_876013	NW_004516574.1	scaffold1348_1	876013	TT	CC	CC	INTERGENIC		
SNP_94201_A_876015	NW_004516574.1	scaffold1348_1	876015	GG	TT	TT	INTERGENIC		
SNP_94202_A_876037	NW_004516574.1	scaffold1348_1	876037	AA	GG	GG	INTERGENIC		
SNP_94203_A_882289	NW_004516574.1	scaffold1348_1	882289	CC	TT	TT	INTERGENIC		
SNP_94204_A_887091	NW_004516574.1	scaffold1348_1	887091	CC	TT	TT	INTERGENIC		
SNP_94205_A_887094	NW_004516574.1	scaffold1348_1	887094	CC	TT	TT	INTERGENIC		
SNP_94206_A_887781	NW_004516574.1	scaffold1348_1	887781	CC	TT	TT	INTERGENIC		
SNP_94207_A_888013	NW_004516574.1	scaffold1348_1	888013	CC	AA	AA	INTERGENIC		
SNP_94208_A_888024	NW_004516574.1	scaffold1348_1	888024	TT	CC	CC	INTERGENIC		
SNP_94209_A_888083	NW_004516574.1	scaffold1348_1	888083	CC	TT	TT	INTERGENIC		
SNP_94210_A_894345	NW_004516574.1	scaffold1348_1	894345	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94211_A_894367	NW_004516574.1	scaffold1348_1	894367	GG	AA	AA	INTERGENIC		
SNP_94213_A_894383	NW_004516574.1	scaffold1348_1	894383	TT	GG	GG	INTERGENIC		
SNP_94214_A_894419	NW_004516574.1	scaffold1348_1	894419	AA	GG	GG	INTERGENIC		
SNP_94215_A_894706	NW_004516574.1	scaffold1348_1	894706	TT	AA	AA	INTERGENIC		
SNP_94216_A_894933	NW_004516574.1	scaffold1348_1	894933	CC	TT	TT	INTERGENIC		
SNP_94217_A_895154	NW_004516574.1	scaffold1348_1	895154	GG	AA	AA	INTERGENIC		
SNP_94219_A_898806	NW_004516574.1	scaffold1348_1	898806	AA	TT	TT	INTERGENIC		
SNP_94220_A_906848	NW_004516574.1	scaffold1348_1	906848	TT	GG	GG	URR	101514125	DELLA protein RGL1-like
SNP_94221_A_910551	NW_004516574.1	scaffold1348_1	910551	TT	CC	CC	URR	101491753	nucleoside diphosphate kinase 2, chloroplastic
SNP_94222_A_910930	NW_004516574.1	scaffold1348_1	910930	AA	CC	CC	URR	101491753	nucleoside diphosphate kinase 2, chloroplastic
SNP_94223_A_911737	NW_004516574.1	scaffold1348_1	911737	AA	GG	GG	URR	101491753	nucleoside diphosphate kinase 2, chloroplastic
SNP_94224_A_912032	NW_004516574.1	scaffold1348_1	912032	TT	AA	AA	DRR	101492420	uncharacterized aarF domain-containing protein kinase 1-like
SNP_94225_A_912067	NW_004516574.1	scaffold1348_1	912067	GG	AA	AA	DRR	101492420	uncharacterized aarF domain-containing protein kinase 1-like
SNP_94226_A_914532	NW_004516574.1	scaffold1348_1	914532	GG	AA	AA	INTERGENIC		
SNP_94227_A_915662	NW_004516574.1	scaffold1348_1	915662	TT	CC	CC	INTRON	101492420	uncharacterized aarF domain-containing protein kinase 1-like
SNP_94228_A_917200	NW_004516574.1	scaffold1348_1	917200	TT	CC	CC	INTRON	101492420	uncharacterized aarF domain-containing protein kinase 1-like
SNP_94230_A_919400	NW_004516574.1	scaffold1348_1	919400	TT	AA	AA	INTERGENIC		
SNP_94231_A_921591	NW_004516574.1	scaffold1348_1	921591	AA	CC	CC	URR	101492420	uncharacterized aarF domain-containing protein kinase 1-like
SNP_94232_A_921683	NW_004516574.1	scaffold1348_1	921683	CC	TT	TT	DRR	101492751	26S proteasome non-ATPase regulatory subunit 6 homolog
SNP_94234_A_925760	NW_004516574.1	scaffold1348_1	925760	CC	GG	GG	INTERGENIC		
SNP_94235_A_927055	NW_004516574.1	scaffold1348_1	927055	CC	AA	AA	URR	101492751	26S proteasome non-ATPase regulatory subunit 6 homolog
SNP_94236_A_930338	NW_004516574.1	scaffold1348_1	930338	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94237_A_930343	NW_004516574.1	scaffold1348_1	930343	CC	AA	AA	INTERGENIC		
SNP_94238_A_931533	NW_004516574.1	scaffold1348_1	931533	CC	TT	TT	DRR	101493304	uncharacterized LOC101493304
SNP_94239_A_931753	NW_004516574.1	scaffold1348_1	931753	TT	AA	AA	DRR	101493304	uncharacterized LOC101493304
SNP_94240_A_933059	NW_004516574.1	scaffold1348_1	933059	AA	GG	GG	URR	101494150	uncharacterized LOC101494150
SNP_94241_A_933337	NW_004516574.1	scaffold1348_1	933337	AA	GG	GG	INTRON	101493304	uncharacterized LOC101493304
SNP_94242_A_937287	NW_004516574.1	scaffold1348_1	937287	TT	CC	CC	URR	101493304	uncharacterized LOC101493304
SNP_94243_A_937491	NW_004516574.1	scaffold1348_1	937491	GG	TT	TT	URR	101493304	uncharacterized LOC101493304
SNP_94244_A_940865	NW_004516574.1	scaffold1348_1	940865	TT	CC	CC	INTERGENIC		
SNP_94245_A_940879	NW_004516574.1	scaffold1348_1	940879	CC	TT	TT	URR	101494458	GDGL esterase/lipase At3g48460
SNP_94246_A_943400	NW_004516574.1	scaffold1348_1	943400	GG	AA	AA	INTERGENIC		
SNP_94247_A_943407	NW_004516574.1	scaffold1348_1	943407	AA	TT	TT	INTERGENIC		
SNP_94249_A_943655	NW_004516574.1	scaffold1348_1	943655	CC	TT	TT	INTERGENIC		
SNP_94250_A_944483	NW_004516574.1	scaffold1348_1	944483	TT	CC	CC	INTERGENIC		
SNP_94251_A_944821	NW_004516574.1	scaffold1348_1	944821	AA	GG	GG	INTERGENIC		
SNP_94252_A_945088	NW_004516574.1	scaffold1348_1	945088	AA	GG	GG	INTERGENIC		
SNP_94254_A_946341	NW_004516574.1	scaffold1348_1	946341	TT	AA	AA	DRR	101494777	Unknown function
SNP_94256_A_952848	NW_004516574.1	scaffold1348_1	952848	AA	TT	TT	INTERGENIC		
SNP_94258_A_954392	NW_004516574.1	scaffold1348_1	954392	AA	CC	CC	URR	101495321	zinc finger CCH domain-containing protein 43-like
SNP_94259_A_954677	NW_004516574.1	scaffold1348_1	954677	GG	AA	AA	URR	101495321	zinc finger CCH domain-containing protein 43-like
SNP_94260_A_954702	NW_004516574.1	scaffold1348_1	954702	GG	TT	TT	URR	101495321	zinc finger CCH domain-containing protein 43-like
SNP_94261_A_954755	NW_004516574.1	scaffold1348_1	954755	AA	GG	GG	URR	101495321	zinc finger CCH domain-containing protein 43-like
SNP_94262_A_955482	NW_004516574.1	scaffold1348_1	955482	TT	CC	CC	URR	101495321	zinc finger CCH domain-containing protein 43-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94263_A_955552	NW_004516574.1	scaffold1348_1	955552	TT	CC	CC	URR	101495321	zinc finger CCH domain-containing protein 43-like
SNP_94264_A_955918	NW_004516574.1	scaffold1348_1	955918	AA	CC	CC	INTERGENIC		
SNP_94265_A_955933	NW_004516574.1	scaffold1348_1	955933	TT	GG	GG	INTERGENIC		
SNP_94266_A_955946	NW_004516574.1	scaffold1348_1	955946	TT	AA	AA	INTERGENIC		
SNP_94267_A_956183	NW_004516574.1	scaffold1348_1	956183	AA	GG	GG	INTERGENIC		
SNP_94268_A_958724	NW_004516574.1	scaffold1348_1	958724	TT	AA	AA	DRR	101495646	lysine-specific demethylase REF6-like
SNP_94269_A_966385	NW_004516574.1	scaffold1348_1	966385	TT	GG	GG	INTERGENIC		
SNP_94270_A_966937	NW_004516574.1	scaffold1348_1	966937	GG	AA	AA	INTERGENIC		
SNP_94271_A_968225	NW_004516574.1	scaffold1348_1	968225	GG	CC	CC	URR	101495646	lysine-specific demethylase REF6-like
SNP_94272_A_968485	NW_004516574.1	scaffold1348_1	968485	AA	TT	TT	URR	101495646	lysine-specific demethylase REF6-like
SNP_94273_A_968528	NW_004516574.1	scaffold1348_1	968528	CC	TT	TT	URR	101495646	lysine-specific demethylase REF6-like
SNP_94274_A_969559	NW_004516574.1	scaffold1348_1	969559	CC	TT	TT	DRR	101495970	uncharacterized LOC101495970
SNP_94275_A_969628	NW_004516574.1	scaffold1348_1	969628	TT	AA	AA	DRR	101495970	uncharacterized LOC101495970
SNP_94276_A_973473	NW_004516574.1	scaffold1348_1	973473	CC	TT	TT	INTRON	101495970	uncharacterized LOC101495970
SNP_94277_A_973921	NW_004516574.1	scaffold1348_1	973921	GG	AA	AA	INTRON	101495970	uncharacterized LOC101495970
SNP_94278_A_976495	NW_004516574.1	scaffold1348_1	976495	CC	TT	TT	URR	101495970	uncharacterized LOC101495970
SNP_94279_A_983101	NW_004516574.1	scaffold1348_1	983101	TT	GG	GG	SYNONYMOUS_CODING	101496307	protein STICHEL-like 2
SNP_94280_A_985219	NW_004516574.1	scaffold1348_1	985219	CC	GG	GG	URR	101496307	protein STICHEL-like 2
SNP_94281_A_988130	NW_004516574.1	scaffold1348_1	988130	GG	AA	AA	INTERGENIC		
SNP_94282_A_988144	NW_004516574.1	scaffold1348_1	988144	AA	GG	GG	INTERGENIC		
SNP_94283_A_988145	NW_004516574.1	scaffold1348_1	988145	CC	TT	TT	INTERGENIC		
SNP_94284_A_988155	NW_004516574.1	scaffold1348_1	988155	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94285_A_988156	NW_004516574.1	scaffold1348_1	988156	GG	AA	AA	INTERGENIC		
SNP_94286_A_991258	NW_004516574.1	scaffold1348_1	991258	AA	GG	GG	INTERGENIC		
SNP_94288_A_991847	NW_004516574.1	scaffold1348_1	991847	AA	TT	TT	INTERGENIC		
SNP_94289_A_991865	NW_004516574.1	scaffold1348_1	991865	GG	AA	AA	INTERGENIC		
SNP_94290_A_991881	NW_004516574.1	scaffold1348_1	991881	GG	TT	TT	INTERGENIC		
SNP_94291_A_992065	NW_004516574.1	scaffold1348_1	992065	TT	CC	CC	INTERGENIC		
SNP_94293_A_992944	NW_004516574.1	scaffold1348_1	992944	CC	TT	TT	INTERGENIC		
SNP_94295_A_998162	NW_004516574.1	scaffold1348_1	998162	TT	CC	CC	INTERGENIC		
SNP_94296_A_998163	NW_004516574.1	scaffold1348_1	998163	AA	GG	GG	INTERGENIC		
SNP_94297_A_1000069	NW_004516574.1	scaffold1348_1	1000069	GG	AA	AA	INTERGENIC		
SNP_94298_A_1002902	NW_004516574.1	scaffold1348_1	1002902	TT	AA	AA	INTERGENIC		
SNP_94299_A_1002911	NW_004516574.1	scaffold1348_1	1002911	TT	GG	GG	INTERGENIC		
SNP_94300_A_1002912	NW_004516574.1	scaffold1348_1	1002912	TT	GG	GG	INTERGENIC		
SNP_94301_A_1011794	NW_004516574.1	scaffold1348_1	1011794	AA	TT	TT	URR	101496637	probable pectate lyase 18
SNP_94304_A_1014808	NW_004516574.1	scaffold1348_1	1014808	CC	TT	TT	INTERGENIC		
SNP_94305_A_1015214	NW_004516574.1	scaffold1348_1	1015214	TT	GG	GG	INTERGENIC		
SNP_94306_A_1020936	NW_004516574.1	scaffold1348_1	1020936	CC	TT	TT	INTERGENIC		
SNP_94307_A_1021203	NW_004516574.1	scaffold1348_1	1021203	CC	GG	GG	INTERGENIC		
SNP_94308_A_1031945	NW_004516574.1	scaffold1348_1	1031945	CC	TT	TT	INTERGENIC		
SNP_94309_A_1041643	NW_004516574.1	scaffold1348_1	1041643	GG	TT	TT	INTERGENIC		
SNP_94310_A_1041672	NW_004516574.1	scaffold1348_1	1041672	AA	CC	CC	INTERGENIC		
SNP_94311_A_1041782	NW_004516574.1	scaffold1348_1	1041782	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94312_A_1041784	NW_004516574.1	scaffold1348_1	1041784	GG	CC	CC	INTERGENIC			
SNP_94313_A_1041854	NW_004516574.1	scaffold1348_1	1041854	AA	TT	TT	INTERGENIC			
SNP_94314_A_1041859	NW_004516574.1	scaffold1348_1	1041859	TT	AA	AA	INTERGENIC			
SNP_94315_A_1043485	NW_004516574.1	scaffold1348_1	1043485	AA	GG	GG	INTERGENIC			
SNP_94316_A_1044417	NW_004516574.1	scaffold1348_1	1044417	CC	TT	TT	INTERGENIC			
SNP_94317_A_1044703	NW_004516574.1	scaffold1348_1	1044703	AA	GG	GG	INTERGENIC			
SNP_94318_A_1045149	NW_004516574.1	scaffold1348_1	1045149	CC	TT	TT	INTERGENIC			
SNP_94319_A_1045152	NW_004516574.1	scaffold1348_1	1045152	TT	CC	CC	INTERGENIC			
SNP_94320_A_1045158	NW_004516574.1	scaffold1348_1	1045158	GG	AA	AA	INTERGENIC			
SNP_94321_A_1045214	NW_004516574.1	scaffold1348_1	1045214	CC	TT	TT	INTERGENIC			
SNP_94322_A_1045449	NW_004516574.1	scaffold1348_1	1045449	GG	AA	AA	INTERGENIC			
SNP_94323_A_1045510	NW_004516574.1	scaffold1348_1	1045510	TT	GG	GG	INTERGENIC			
SNP_94324_A_1047822	NW_004516574.1	scaffold1348_1	1047822	TT	GG	GG	INTERGENIC			
SNP_94325_A_1047847	NW_004516574.1	scaffold1348_1	1047847	TT	AA	AA	INTERGENIC			
SNP_94326_A_1047848	NW_004516574.1	scaffold1348_1	1047848	TT	AA	AA	INTERGENIC			
SNP_94327_A_1049779	NW_004516574.1	scaffold1348_1	1049779	CC	TT	TT	DRR	101496955	BTB/POZ and TAZ domain-containing protein 2-like	
SNP_94328_A_1050583	NW_004516574.1	scaffold1348_1	1050583	CC	TT	TT	URR	101496955	BTB/POZ and TAZ domain-containing protein 2-like	
SNP_94329_A_1056137	NW_004516574.1	scaffold1348_1	1056137	TT	AA	AA	INTERGENIC			
SNP_94330_A_1056409	NW_004516574.1	scaffold1348_1	1056409	CC	TT	TT	INTERGENIC			
SNP_94331_A_1056428	NW_004516574.1	scaffold1348_1	1056428	CC	TT	TT	INTERGENIC			
SNP_94332_A_1056720	NW_004516574.1	scaffold1348_1	1056720	AA	CC	CC	INTERGENIC			
SNP_94333_A_1056732	NW_004516574.1	scaffold1348_1	1056732	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94334_A_1056740	NW_004516574.1	scaffold1348_1	1056740	AA	GG	GG	INTERGENIC		
SNP_94335_A_1057640	NW_004516574.1	scaffold1348_1	1057640	CC	TT	TT	INTERGENIC		
SNP_94336_A_1057667	NW_004516574.1	scaffold1348_1	1057667	AA	TT	TT	INTERGENIC		
SNP_94337_A_1059183	NW_004516574.1	scaffold1348_1	1059183	AA	GG	GG	DRR	101497285	vignain-like
SNP_94338_A_1059413	NW_004516574.1	scaffold1348_1	1059413	GG	AA	AA	DRR	101497285	vignain-like
SNP_94339_A_1060148	NW_004516574.1	scaffold1348_1	1060148	GG	TT	TT	INTRON	101497285	vignain-like
SNP_94341_A_1062743	NW_004516574.1	scaffold1348_1	1062743	CC	AA	AA	URR	101497285	vignain-like
SNP_94342_A_1066408	NW_004516574.1	scaffold1348_1	1066408	AA	CC	CC	INTRON	101497939	vignain-like
SNP_94343_A_1070689	NW_004516574.1	scaffold1348_1	1070689	TT	GG	GG	URR	101497939	vignain-like
SNP_94345_A_1075302	NW_004516574.1	scaffold1348_1	1075302	GG	TT	TT	URR	101497607	protein tipD
SNP_94346_A_1075342	NW_004516574.1	scaffold1348_1	1075342	CC	TT	TT	URR	101497607	protein tipD
SNP_94347_A_1075344	NW_004516574.1	scaffold1348_1	1075344	AA	TT	TT	URR	101497607	protein tipD
SNP_94349_A_1075519	NW_004516574.1	scaffold1348_1	1075519	TT	CC	CC	URR	101497607	protein tipD
SNP_94350_A_1076776	NW_004516574.1	scaffold1348_1	1076776	GG	TT	TT	URR	101497607	protein tipD
SNP_94351_A_1076899	NW_004516574.1	scaffold1348_1	1076899	GG	AA	AA	URR	101497607	protein tipD
SNP_94352_A_1092093	NW_004516574.1	scaffold1348_1	1092093	CC	TT	TT	URR	101498597	protein-L-isoaspartate O-methyltransferase-like
SNP_94353_A_1093675	NW_004516574.1	scaffold1348_1	1093675	AA	CC	CC	URR	101498597	protein-L-isoaspartate O-methyltransferase-like
SNP_94354_A_1094386	NW_004516574.1	scaffold1348_1	1094386	AA	TT	TT	INTERGENIC		
SNP_94356_A_1096410	NW_004516574.1	scaffold1348_1	1096410	AA	CC	CC	DRR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94357_A_1096421	NW_004516574.1	scaffold1348_1	1096421	CC	AA	AA	DRR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94358_A_1096452	NW_004516574.1	scaffold1348_1	1096452	TT	AA	AA	DRR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94359_A_1097407	NW_004516574.1	scaffold1348_1	1097407	GG	AA	AA	DRR	101499157	28 kDa ribonucleoprotein, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94360_A_1098178	NW_004516574.1	scaffold1348_1	1098178	TT	CC	CC	INTRON	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94361_A_1101172	NW_004516574.1	scaffold1348_1	1101172	GG	AA	AA	URR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94362_A_1101174	NW_004516574.1	scaffold1348_1	1101174	GG	AA	AA	URR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94363_A_1101181	NW_004516574.1	scaffold1348_1	1101181	AA	GG	GG	URR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94364_A_1101210	NW_004516574.1	scaffold1348_1	1101210	TT	CC	CC	URR	101499157	28 kDa ribonucleoprotein, chloroplastic
SNP_94365_A_1102558	NW_004516574.1	scaffold1348_1	1102558	AA	TT	TT	INTERGENIC		
SNP_94366_A_1103076	NW_004516574.1	scaffold1348_1	1103076	GG	AA	AA	DRR	101499476	proline transporter 2-like
SNP_94367_A_1103707	NW_004516574.1	scaffold1348_1	1103707	TT	CC	CC	DRR	101499476	proline transporter 2-like
SNP_94368_A_1103758	NW_004516574.1	scaffold1348_1	1103758	AA	TT	TT	DRR	101499476	proline transporter 2-like
SNP_94370_A_1104279	NW_004516574.1	scaffold1348_1	1104279	GG	AA	AA	INTRON	101499476	proline transporter 2-like
SNP_94371_A_1106055	NW_004516574.1	scaffold1348_1	1106055	GG	TT	TT	INTRON	101499476	proline transporter 2-like
SNP_94372_A_1106317	NW_004516574.1	scaffold1348_1	1106317	CC	TT	TT	INTRON	101499476	proline transporter 2-like
SNP_94373_A_1107844	NW_004516574.1	scaffold1348_1	1107844	GG	AA	AA	URR	101499476	proline transporter 2-like
SNP_94374_A_1111453	NW_004516574.1	scaffold1348_1	1111453	CC	GG	GG	INTERGENIC		
SNP_94375_A_1111459	NW_004516574.1	scaffold1348_1	1111459	TT	CC	CC	INTERGENIC		
SNP_94376_A_1114501	NW_004516574.1	scaffold1348_1	1114501	CC	AA	AA	INTERGENIC		
SNP_94377_A_1114503	NW_004516574.1	scaffold1348_1	1114503	AA	GG	GG	INTERGENIC		
SNP_94378_A_1114506	NW_004516574.1	scaffold1348_1	1114506	CC	GG	GG	INTERGENIC		
SNP_94379_A_1114522	NW_004516574.1	scaffold1348_1	1114522	CC	AA	AA	INTERGENIC		
SNP_94380_A_1114524	NW_004516574.1	scaffold1348_1	1114524	GG	AA	AA	INTERGENIC		
SNP_94381_A_1115817	NW_004516574.1	scaffold1348_1	1115817	CC	AA	AA	URR	101499779	proline transporter 2-like
SNP_94382_A_1115829	NW_004516574.1	scaffold1348_1	1115829	CC	TT	TT	URR	101499779	proline transporter 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94383_A_1115841	NW_004516574.1	scaffold1348_1	1115841	AA	TT	TT	URR	101499779	proline transporter 2-like
SNP_94386_A_1119069	NW_004516574.1	scaffold1348_1	1119069	AA	TT	TT	DRR	101515099	uncharacterized LOC101515099
SNP_94387_A_1119081	NW_004516574.1	scaffold1348_1	1119081	GG	CC	CC	DRR	101515099	uncharacterized LOC101515099
SNP_94388_A_1119131	NW_004516574.1	scaffold1348_1	1119131	CC	TT	TT	DRR	101515099	uncharacterized LOC101515099
SNP_94389_A_1120669	NW_004516574.1	scaffold1348_1	1120669	CC	AA	AA	URR	101515099	uncharacterized LOC101515099
SNP_94390_A_1121984	NW_004516574.1	scaffold1348_1	1121984	CC	AA	AA	INTRON	101500097	cytochrome P450 71A26-like
SNP_94391_A_1122197	NW_004516574.1	scaffold1348_1	1122197	AA	CC	CC	INTRON	101500097	cytochrome P450 71A26-like
SNP_94392_A_1122252	NW_004516574.1	scaffold1348_1	1122252	TT	CC	CC	INTRON	101500097	cytochrome P450 71A26-like
SNP_94393_A_1123885	NW_004516574.1	scaffold1348_1	1123885	GG	AA	AA	SYNONYMOUS_CODING	101500097	cytochrome P450 71A26-like
SNP_94395_A_1125035	NW_004516574.1	scaffold1348_1	1125035	CC	AA	AA	URR	101500097	cytochrome P450 71A26-like
SNP_94396_A_1125146	NW_004516574.1	scaffold1348_1	1125146	GG	CC	CC	URR	101500097	cytochrome P450 71A26-like
SNP_94397_A_1125434	NW_004516574.1	scaffold1348_1	1125434	AA	GG	GG	URR	101500097	cytochrome P450 71A26-like
SNP_94399_A_1127470	NW_004516574.1	scaffold1348_1	1127470	CC	TT	TT	INTERGENIC		
SNP_94400_A_1127474	NW_004516574.1	scaffold1348_1	1127474	CC	AA	AA	INTERGENIC		
SNP_94401_A_1130814	NW_004516574.1	scaffold1348_1	1130814	GG	CC	CC	INTERGENIC		
SNP_94402_A_1133558	NW_004516574.1	scaffold1348_1	1133558	AA	CC	CC	INTERGENIC		
SNP_94403_A_1133914	NW_004516574.1	scaffold1348_1	1133914	TT	GG	GG	INTERGENIC		
SNP_94404_A_1134197	NW_004516574.1	scaffold1348_1	1134197	CC	AA	AA	INTERGENIC		
SNP_94405_A_1136640	NW_004516574.1	scaffold1348_1	1136640	AA	GG	GG	INTERGENIC		
SNP_94406_A_1136641	NW_004516574.1	scaffold1348_1	1136641	AA	GG	GG	INTERGENIC		
SNP_94407_A_1136911	NW_004516574.1	scaffold1348_1	1136911	TT	AA	AA	INTERGENIC		
SNP_94408_A_1138055	NW_004516574.1	scaffold1348_1	1138055	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94409_A_1138066	NW_004516574.1	scaffold1348_1	1138066	AA	GG	GG	INTERGENIC			
SNP_94410_A_1138072	NW_004516574.1	scaffold1348_1	1138072	TT	AA	AA	INTERGENIC			
SNP_94411_A_1138097	NW_004516574.1	scaffold1348_1	1138097	TT	AA	AA	INTERGENIC			
SNP_94412_A_1138119	NW_004516574.1	scaffold1348_1	1138119	CC	GG	GG	INTERGENIC			
SNP_94413_A_1138165	NW_004516574.1	scaffold1348_1	1138165	TT	AA	AA	INTERGENIC			
SNP_94414_A_1138212	NW_004516574.1	scaffold1348_1	1138212	AA	GG	GG	INTERGENIC			
SNP_94415_A_1138327	NW_004516574.1	scaffold1348_1	1138327	TT	CC	CC	INTERGENIC			
SNP_94417_A_1138402	NW_004516574.1	scaffold1348_1	1138402	AA	GG	GG	INTERGENIC			
SNP_94418_A_1138410	NW_004516574.1	scaffold1348_1	1138410	AA	CC	CC	INTERGENIC			
SNP_94419_A_1138431	NW_004516574.1	scaffold1348_1	1138431	AA	GG	GG	INTERGENIC			
SNP_94421_A_1138503	NW_004516574.1	scaffold1348_1	1138503	TT	CC	CC	INTERGENIC			
SNP_94422_A_1138587	NW_004516574.1	scaffold1348_1	1138587	TT	CC	CC	INTERGENIC			
SNP_94423_A_1138589	NW_004516574.1	scaffold1348_1	1138589	AA	TT	TT	INTERGENIC			
SNP_94424_A_1138595	NW_004516574.1	scaffold1348_1	1138595	AA	CC	CC	INTERGENIC			
SNP_94425_A_1138618	NW_004516574.1	scaffold1348_1	1138618	CC	TT	TT	INTERGENIC			
SNP_94426_A_1138634	NW_004516574.1	scaffold1348_1	1138634	AA	TT	TT	INTERGENIC			
SNP_94427_A_1138663	NW_004516574.1	scaffold1348_1	1138663	GG	TT	TT	INTERGENIC			
SNP_94428_A_1138678	NW_004516574.1	scaffold1348_1	1138678	AA	TT	TT	INTERGENIC			
SNP_94429_A_1138694	NW_004516574.1	scaffold1348_1	1138694	TT	CC	CC	INTERGENIC			
SNP_94430_A_1138696	NW_004516574.1	scaffold1348_1	1138696	TT	CC	CC	INTERGENIC			
SNP_94431_A_1138722	NW_004516574.1	scaffold1348_1	1138722	AA	GG	GG	INTERGENIC			
SNP_94432_A_1138725	NW_004516574.1	scaffold1348_1	1138725	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94433_A_1138753	NW_004516574.1	scaffold1348_1	1138753	TT	CC	CC	INTERGENIC			
SNP_94434_A_1138772	NW_004516574.1	scaffold1348_1	1138772	CC	AA	AA	INTERGENIC			
SNP_94435_A_1138778	NW_004516574.1	scaffold1348_1	1138778	GG	AA	AA	INTERGENIC			
SNP_94436_A_1138782	NW_004516574.1	scaffold1348_1	1138782	TT	CC	CC	INTERGENIC			
SNP_94437_A_1138790	NW_004516574.1	scaffold1348_1	1138790	CC	TT	TT	INTERGENIC			
SNP_94438_A_1138794	NW_004516574.1	scaffold1348_1	1138794	TT	AA	AA	INTERGENIC			
SNP_94439_A_1138817	NW_004516574.1	scaffold1348_1	1138817	GG	AA	AA	INTERGENIC			
SNP_94440_A_1138819	NW_004516574.1	scaffold1348_1	1138819	AA	GG	GG	INTERGENIC			
SNP_94441_A_1138897	NW_004516574.1	scaffold1348_1	1138897	TT	CC	CC	INTERGENIC			
SNP_94442_A_1139270	NW_004516574.1	scaffold1348_1	1139270	TT	AA	AA	INTERGENIC			
SNP_94443_A_1139312	NW_004516574.1	scaffold1348_1	1139312	AA	GG	GG	INTERGENIC			
SNP_94444_A_1139335	NW_004516574.1	scaffold1348_1	1139335	TT	CC	CC	INTERGENIC			
SNP_94445_A_1139400	NW_004516574.1	scaffold1348_1	1139400	AA	CC	CC	INTERGENIC			
SNP_94446_A_1139418	NW_004516574.1	scaffold1348_1	1139418	AA	TT	TT	INTERGENIC			
SNP_94448_A_1139478	NW_004516574.1	scaffold1348_1	1139478	AA	CC	CC	INTERGENIC			
SNP_94449_A_1139527	NW_004516574.1	scaffold1348_1	1139527	GG	AA	AA	INTERGENIC			
SNP_94450_A_1139697	NW_004516574.1	scaffold1348_1	1139697	GG	TT	TT	INTERGENIC			
SNP_94451_A_1139769	NW_004516574.1	scaffold1348_1	1139769	GG	TT	TT	INTERGENIC			
SNP_94452_A_1139780	NW_004516574.1	scaffold1348_1	1139780	AA	GG	GG	INTERGENIC			
SNP_94453_A_1141290	NW_004516574.1	scaffold1348_1	1141290	TT	AA	AA	DRR	101500425	serine/threonine-protein kinase AFC2-like	
SNP_94454_A_1141293	NW_004516574.1	scaffold1348_1	1141293	TT	AA	AA	DRR	101500425	serine/threonine-protein kinase AFC2-like	
SNP_94455_A_1141298	NW_004516574.1	scaffold1348_1	1141298	GG	AA	AA	DRR	101500425	serine/threonine-protein kinase AFC2-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94456_A_1141946	NW_004516574.1	scaffold1348_1	1141946	GG	TT	TT	INTRON	101500425	serine/threonine-protein kinase AFC2-like
SNP_94457_A_1141981	NW_004516574.1	scaffold1348_1	1141981	CC	GG	GG	INTRON	101500425	serine/threonine-protein kinase AFC2-like
SNP_94458_A_1141994	NW_004516574.1	scaffold1348_1	1141994	AA	CC	CC	INTRON	101500425	serine/threonine-protein kinase AFC2-like
SNP_94459_A_1142478	NW_004516574.1	scaffold1348_1	1142478	AA	GG	GG	INTRON	101500425	serine/threonine-protein kinase AFC2-like
SNP_94460_A_1142519	NW_004516574.1	scaffold1348_1	1142519	AA	GG	GG	INTRON	101500425	serine/threonine-protein kinase AFC2-like
SNP_94461_A_1145598	NW_004516574.1	scaffold1348_1	1145598	GG	TT	TT	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94462_A_1145603	NW_004516574.1	scaffold1348_1	1145603	TT	CC	CC	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94463_A_1145671	NW_004516574.1	scaffold1348_1	1145671	GG	AA	AA	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94464_A_1145764	NW_004516574.1	scaffold1348_1	1145764	TT	AA	AA	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94465_A_1146978	NW_004516574.1	scaffold1348_1	1146978	TT	AA	AA	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94466_A_1147073	NW_004516574.1	scaffold1348_1	1147073	AA	GG	GG	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94467_A_1147171	NW_004516574.1	scaffold1348_1	1147171	TT	GG	GG	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94468_A_1147227	NW_004516574.1	scaffold1348_1	1147227	TT	AA	AA	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94469_A_1147256	NW_004516574.1	scaffold1348_1	1147256	GG	AA	AA	URR	101500425	serine/threonine-protein kinase AFC2-like
SNP_94470_A_1147649	NW_004516574.1	scaffold1348_1	1147649	GG	AA	AA	INTERGENIC		
SNP_94471_A_1147657	NW_004516574.1	scaffold1348_1	1147657	TT	CC	CC	INTERGENIC		
SNP_94472_A_1149698	NW_004516574.1	scaffold1348_1	1149698	TT	CC	CC	INTERGENIC		
SNP_94473_A_1151113	NW_004516574.1	scaffold1348_1	1151113	GG	AA	AA	INTERGENIC		
SNP_94474_A_1152371	NW_004516574.1	scaffold1348_1	1152371	AA	TT	TT	INTERGENIC		
SNP_94475_A_1152377	NW_004516574.1	scaffold1348_1	1152377	TT	CC	CC	INTERGENIC		
SNP_94476_A_1152544	NW_004516574.1	scaffold1348_1	1152544	GG	AA	AA	INTERGENIC		
SNP_94477_A_1152573	NW_004516574.1	scaffold1348_1	1152573	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94478_A_1152621	NW_004516574.1	scaffold1348_1	1152621	TT	CC	CC	INTERGENIC		
SNP_94480_A_1155141	NW_004516574.1	scaffold1348_1	1155141	GG	CC	CC	INTERGENIC		
SNP_94481_A_1155208	NW_004516574.1	scaffold1348_1	1155208	AA	GG	GG	INTERGENIC		
SNP_94482_A_1155281	NW_004516574.1	scaffold1348_1	1155281	TT	CC	CC	INTERGENIC		
SNP_94483_A_1155333	NW_004516574.1	scaffold1348_1	1155333	GG	AA	AA	INTERGENIC		
SNP_94484_A_1155410	NW_004516574.1	scaffold1348_1	1155410	CC	TT	TT	INTERGENIC		
SNP_94485_A_1155503	NW_004516574.1	scaffold1348_1	1155503	CC	TT	TT	INTERGENIC		
SNP_94486_A_1155508	NW_004516574.1	scaffold1348_1	1155508	TT	CC	CC	INTERGENIC		
SNP_94487_A_1156934	NW_004516574.1	scaffold1348_1	1156934	CC	GG	GG	DRR	101500736	cytochrome P450 71A1-like
SNP_94488_A_1159598	NW_004516574.1	scaffold1348_1	1159598	GG	CC	CC	NON_SYNONYMOUS_CODING	101500736	cytochrome P450 71A1-like
SNP_94489_A_1160129	NW_004516574.1	scaffold1348_1	1160129	GG	AA	AA	URR	101500736	cytochrome P450 71A1-like
SNP_94490_A_1162343	NW_004516574.1	scaffold1348_1	1162343	AA	GG	GG	INTERGENIC		
SNP_94491_A_1167123	NW_004516574.1	scaffold1348_1	1167123	GG	AA	AA	INTERGENIC		
SNP_94492_A_1167145	NW_004516574.1	scaffold1348_1	1167145	GG	AA	AA	DRR	101501046	quinolinate synthase, chloroplastic
SNP_94493_A_1167320	NW_004516574.1	scaffold1348_1	1167320	GG	AA	AA	DRR	101501046	quinolinate synthase, chloroplastic
SNP_94494_A_1170821	NW_004516574.1	scaffold1348_1	1170821	GG	AA	AA	NON_SYNONYMOUS_CODING	101501046	quinolinate synthase, chloroplastic
SNP_94495_A_1172266	NW_004516574.1	scaffold1348_1	1172266	CC	GG	GG	NON_SYNONYMOUS_CODING	101501046	quinolinate synthase, chloroplastic
SNP_94496_A_1179892	NW_004516574.1	scaffold1348_1	1179892	GG	AA	AA	URR	101501680	high-affinity nitrate transporter 3.1-like
SNP_94497_A_1179900	NW_004516574.1	scaffold1348_1	1179900	TT	CC	CC	URR	101501680	high-affinity nitrate transporter 3.1-like
SNP_94498_A_1180227	NW_004516574.1	scaffold1348_1	1180227	TT	AA	AA	URR	101501680	high-affinity nitrate transporter 3.1-like
SNP_94500_A_1182598	NW_004516574.1	scaffold1348_1	1182598	GG	AA	AA	INTERGENIC		
SNP_94501_A_1182616	NW_004516574.1	scaffold1348_1	1182616	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94502_A_1182637	NW_004516574.1	scaffold1348_1	1182637	GG	AA	AA	INTERGENIC		
SNP_94505_A_1191923	NW_004516574.1	scaffold1348_1	1191923	TT	CC	CC	URR	101515423	uncharacterized LOC101515423
SNP_94506_A_1193787	NW_004516574.1	scaffold1348_1	1193787	AA	GG	GG	URR	101502004	uncharacterized LOC101502004
SNP_94507_A_1193794	NW_004516574.1	scaffold1348_1	1193794	CC	TT	TT	URR	101502004	uncharacterized LOC101502004
SNP_94509_A_1196410	NW_004516574.1	scaffold1348_1	1196410	TT	CC	CC	DRR	101502330	protein DEHYDRATION-INDUCED 19 homolog 5-like
SNP_94510_A_1196546	NW_004516574.1	scaffold1348_1	1196546	TT	GG	GG	DRR	101502330	protein DEHYDRATION-INDUCED 19 homolog 5-like
SNP_94511_A_1199264	NW_004516574.1	scaffold1348_1	1199264	CC	TT	TT	INTRON	101502330	protein DEHYDRATION-INDUCED 19 homolog 5-like
SNP_94512_A_1202152	NW_004516574.1	scaffold1348_1	1202152	CC	TT	TT	URR	101502330	protein DEHYDRATION-INDUCED 19 homolog 5-like
SNP_94513_A_1202163	NW_004516574.1	scaffold1348_1	1202163	GG	TT	TT	URR	101502330	protein DEHYDRATION-INDUCED 19 homolog 5-like
SNP_94514_A_1205335	NW_004516574.1	scaffold1348_1	1205335	TT	AA	AA	DRR	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94515_A_1205542	NW_004516574.1	scaffold1348_1	1205542	TT	GG	GG	DRR	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94516_A_1205887	NW_004516574.1	scaffold1348_1	1205887	CC	GG	GG	DRR	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94517_A_1206563	NW_004516574.1	scaffold1348_1	1206563	GG	AA	AA	SYNONYMOUS_CODING	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94518_A_1207381	NW_004516574.1	scaffold1348_1	1207381	CC	AA	AA	NON_SYNONYMOUS_CODING	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94519_A_1208571	NW_004516574.1	scaffold1348_1	1208571	TT	GG	GG	URR	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94520_A_1209681	NW_004516574.1	scaffold1348_1	1209681	AA	CC	CC	URR	101515755	pentatricopeptide repeat-containing protein At3g48250, chloroplastic-like
SNP_94521_A_1225948	NW_004516574.1	scaffold1348_1	1225948	TT	CC	CC	INTERGENIC		
SNP_94522_A_1226062	NW_004516574.1	scaffold1348_1	1226062	CC	AA	AA	INTERGENIC		
SNP_94523_A_1226115	NW_004516574.1	scaffold1348_1	1226115	TT	CC	CC	INTERGENIC		
SNP_94524_A_1226235	NW_004516574.1	scaffold1348_1	1226235	AA	TT	TT	INTERGENIC		
SNP_94525_A_1230921	NW_004516574.1	scaffold1348_1	1230921	TT	CC	CC	DRR	101503182	uncharacterized LOC101503182
SNP_94528_A_1232411	NW_004516574.1	scaffold1348_1	1232411	GG	AA	AA	URR	101502861	pentatricopeptide repeat-containing protein At3g48250, chloroplastic

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94529_A_1232682	NW_004516574.1	scaffold1348_1	1232682	AA	GG	GG	DRR	101503502	uncharacterized LOC101503502
SNP_94530_A_1232802	NW_004516574.1	scaffold1348_1	1232802	CC	GG	GG	DRR	101503502	uncharacterized LOC101503502
SNP_94531_A_1233566	NW_004516574.1	scaffold1348_1	1233566	TT	CC	CC	URR	101503182	uncharacterized LOC101503182
SNP_94532_A_1233577	NW_004516574.1	scaffold1348_1	1233577	GG	AA	AA	URR	101503182	uncharacterized LOC101503182
SNP_94533_A_1238905	NW_004516574.1	scaffold1348_1	1238905	AA	TT	TT	URR	101503502	uncharacterized LOC101503502
SNP_94534_A_1239224	NW_004516574.1	scaffold1348_1	1239224	GG	AA	AA	URR	101503502	uncharacterized LOC101503502
SNP_94535_A_1239413	NW_004516574.1	scaffold1348_1	1239413	GG	TT	TT	URR	101503502	uncharacterized LOC101503502
SNP_94536_A_1239757	NW_004516574.1	scaffold1348_1	1239757	GG	AA	AA	URR	101503502	uncharacterized LOC101503502
SNP_94537_A_1239806	NW_004516574.1	scaffold1348_1	1239806	GG	AA	AA	URR	101503502	uncharacterized LOC101503502
SNP_94538_A_1240380	NW_004516574.1	scaffold1348_1	1240380	CC	TT	TT	URR	101503502	uncharacterized LOC101503502
SNP_94539_A_1240672	NW_004516574.1	scaffold1348_1	1240672	TT	CC	CC	INTERGENIC		
SNP_94540_A_1240692	NW_004516574.1	scaffold1348_1	1240692	GG	AA	AA	INTERGENIC		
SNP_94541_A_1240701	NW_004516574.1	scaffold1348_1	1240701	GG	AA	AA	INTERGENIC		
SNP_94542_A_1243127	NW_004516574.1	scaffold1348_1	1243127	TT	CC	CC	INTERGENIC		
SNP_94543_A_1244972	NW_004516574.1	scaffold1348_1	1244972	GG	CC	CC	DRR	101503838	plant intracellular Ras-group-related LRR protein 9-like
SNP_94544_A_1245854	NW_004516574.1	scaffold1348_1	1245854	CC	AA	AA	INTERGENIC		
SNP_94545_A_1246232	NW_004516574.1	scaffold1348_1	1246232	GG	AA	AA	INTERGENIC		
SNP_94546_A_1250240	NW_004516574.1	scaffold1348_1	1250240	TT	GG	GG	URR	101503838	plant intracellular Ras-group-related LRR protein 9-like
SNP_94547_A_1250755	NW_004516574.1	scaffold1348_1	1250755	AA	GG	GG	URR	101503838	plant intracellular Ras-group-related LRR protein 9-like
SNP_94548_A_1251559	NW_004516574.1	scaffold1348_1	1251559	GG	AA	AA	INTERGENIC		
SNP_94549_A_1251592	NW_004516574.1	scaffold1348_1	1251592	AA	GG	GG	INTERGENIC		
SNP_94550_A_1252927	NW_004516574.1	scaffold1348_1	1252927	AA	CC	CC	DRR	101504255	uncharacterized LOC101504255

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94551_A_1254603	NW_004516574.1	scaffold1348_1	1254603	AA	TT	TT	URR	101504255	uncharacterized LOC101504255
SNP_94552_A_1255022	NW_004516574.1	scaffold1348_1	1255022	AA	GG	GG	URR	101504255	uncharacterized LOC101504255
SNP_94553_A_1255739	NW_004516574.1	scaffold1348_1	1255739	CC	TT	TT	URR	101504255	uncharacterized LOC101504255
SNP_94554_A_1255768	NW_004516574.1	scaffold1348_1	1255768	TT	CC	CC	URR	101504255	uncharacterized LOC101504255
SNP_94555_A_1255805	NW_004516574.1	scaffold1348_1	1255805	TT	AA	AA	URR	101504255	uncharacterized LOC101504255
SNP_94556_A_1255831	NW_004516574.1	scaffold1348_1	1255831	CC	TT	TT	URR	101504255	uncharacterized LOC101504255
SNP_94557_A_1258288	NW_004516574.1	scaffold1348_1	1258288	TT	AA	AA	INTERGENIC		
SNP_94559_A_1261514	NW_004516574.1	scaffold1348_1	1261514	CC	TT	TT	INTERGENIC		
SNP_94560_A_1262594	NW_004516574.1	scaffold1348_1	1262594	AA	GG	GG	INTERGENIC		
SNP_94561_A_1262630	NW_004516574.1	scaffold1348_1	1262630	TT	AA	AA	INTERGENIC		
SNP_94562_A_1262689	NW_004516574.1	scaffold1348_1	1262689	AA	GG	GG	INTERGENIC		
SNP_94563_A_1262708	NW_004516574.1	scaffold1348_1	1262708	AA	GG	GG	INTERGENIC		
SNP_94564_A_1262715	NW_004516574.1	scaffold1348_1	1262715	GG	AA	AA	INTERGENIC		
SNP_94566_A_1268193	NW_004516574.1	scaffold1348_1	1268193	GG	AA	AA	URR	101504589	L-type lectin-domain containing receptor kinase S.1-like
SNP_94567_A_1275329	NW_004516574.1	scaffold1348_1	1275329	GG	AA	AA	INTERGENIC		
SNP_94568_A_1276452	NW_004516574.1	scaffold1348_1	1276452	GG	CC	CC	URR	101505212	ferric reduction oxidase 8, mitochondrial
SNP_94569_A_1277543	NW_004516574.1	scaffold1348_1	1277543	TT	AA	AA	URR	101505212	ferric reduction oxidase 8, mitochondrial
SNP_94571_A_1277580	NW_004516574.1	scaffold1348_1	1277580	CC	TT	TT	URR	101505212	ferric reduction oxidase 8, mitochondrial
SNP_94572_A_1277588	NW_004516574.1	scaffold1348_1	1277588	TT	CC	CC	URR	101505212	ferric reduction oxidase 8, mitochondrial
SNP_94573_A_1281203	NW_004516574.1	scaffold1348_1	1281203	GG	CC	CC	INTRON	101488856	uncharacterized LOC101488856
SNP_94574_A_1281266	NW_004516574.1	scaffold1348_1	1281266	CC	TT	TT	INTRON	101488856	uncharacterized LOC101488856
SNP_94575_A_1282756	NW_004516574.1	scaffold1348_1	1282756	TT	AA	AA	URR	101488856	uncharacterized LOC101488856

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94576_A_1284355	NW_004516574.1	scaffold1348_1	1284355	CC	TT	TT	DRR	101505535	DEAD-box ATP-dependent RNA helicase 20
SNP_94577_A_1284444	NW_004516574.1	scaffold1348_1	1284444	AA	TT	TT	DRR	101505535	DEAD-box ATP-dependent RNA helicase 20
SNP_94578_A_1290447	NW_004516574.1	scaffold1348_1	1290447	AA	GG	GG	DRR	101506293	uncharacterized LOC101506293
SNP_94580_A_1290594	NW_004516574.1	scaffold1348_1	1290594	TT	CC	CC	DRR	101506293	uncharacterized LOC101506293
SNP_94581_A_1290951	NW_004516574.1	scaffold1348_1	1290951	TT	CC	CC	URR	101505535	DEAD-box ATP-dependent RNA helicase 20
SNP_94582_A_1294495	NW_004516574.1	scaffold1348_1	1294495	TT	GG	GG	URR	101506293	uncharacterized LOC101506293
SNP_94583_A_1294496	NW_004516574.1	scaffold1348_1	1294496	AA	CC	CC	URR	101506293	uncharacterized LOC101506293
SNP_94584_A_1294505	NW_004516574.1	scaffold1348_1	1294505	TT	CC	CC	URR	101506293	uncharacterized LOC101506293
SNP_94585_A_1294506	NW_004516574.1	scaffold1348_1	1294506	TT	CC	CC	URR	101506293	uncharacterized LOC101506293
SNP_94586_A_1294892	NW_004516574.1	scaffold1348_1	1294892	CC	TT	TT	URR	101506293	uncharacterized LOC101506293
SNP_94587_A_1295145	NW_004516574.1	scaffold1348_1	1295145	AA	GG	GG	URR	101506293	uncharacterized LOC101506293
SNP_94588_A_1295199	NW_004516574.1	scaffold1348_1	1295199	CC	TT	TT	URR	101506293	uncharacterized LOC101506293
SNP_94589_A_1295456	NW_004516574.1	scaffold1348_1	1295456	CC	TT	TT	INTERGENIC		
SNP_94590_A_1295532	NW_004516574.1	scaffold1348_1	1295532	TT	CC	CC	INTERGENIC		
SNP_94591_A_1295775	NW_004516574.1	scaffold1348_1	1295775	CC	TT	TT	INTERGENIC		
SNP_94592_A_1295840	NW_004516574.1	scaffold1348_1	1295840	TT	CC	CC	INTERGENIC		
SNP_94593_A_1295851	NW_004516574.1	scaffold1348_1	1295851	CC	TT	TT	INTERGENIC		
SNP_94594_A_1295852	NW_004516574.1	scaffold1348_1	1295852	GG	AA	AA	INTERGENIC		
SNP_94595_A_1296159	NW_004516574.1	scaffold1348_1	1296159	CC	AA	AA	INTERGENIC		
SNP_94596_A_1296205	NW_004516574.1	scaffold1348_1	1296205	TT	CC	CC	INTERGENIC		
SNP_94597_A_1298623	NW_004516574.1	scaffold1348_1	1298623	TT	AA	AA	INTERGENIC		
SNP_94598_A_1298647	NW_004516574.1	scaffold1348_1	1298647	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94599_A_1299912	NW_004516574.1	scaffold1348_1	1299912	GG	AA	AA	INTERGENIC		
SNP_94600_A_1300165	NW_004516574.1	scaffold1348_1	1300165	GG	AA	AA	INTERGENIC		
SNP_94601_A_1301283	NW_004516574.1	scaffold1348_1	1301283	TT	AA	AA	INTERGENIC		
SNP_94602_A_1306598	NW_004516574.1	scaffold1348_1	1306598	TT	GG	GG	URR	101506615	transcription factor MYB86-like
SNP_94603_A_1306854	NW_004516574.1	scaffold1348_1	1306854	TT	CC	CC	URR	101506615	transcription factor MYB86-like
SNP_94604_A_1306866	NW_004516574.1	scaffold1348_1	1306866	TT	CC	CC	URR	101506615	transcription factor MYB86-like
SNP_94605_A_1314698	NW_004516574.1	scaffold1348_1	1314698	TT	AA	AA	INTERGENIC		
SNP_94606_A_1315942	NW_004516574.1	scaffold1348_1	1315942	TT	AA	AA	INTERGENIC		
SNP_94607_A_1318037	NW_004516574.1	scaffold1348_1	1318037	CC	AA	AA	INTERGENIC		
SNP_94608_A_1318197	NW_004516574.1	scaffold1348_1	1318197	CC	AA	AA	INTERGENIC		
SNP_94609_A_1318253	NW_004516574.1	scaffold1348_1	1318253	CC	TT	TT	INTERGENIC		
SNP_94610_A_1323076	NW_004516574.1	scaffold1348_1	1323076	AA	TT	TT	INTERGENIC		
SNP_94611_A_1323087	NW_004516574.1	scaffold1348_1	1323087	AA	GG	GG	INTERGENIC		
SNP_94612_A_1323182	NW_004516574.1	scaffold1348_1	1323182	TT	CC	CC	INTERGENIC		
SNP_94613_A_1323248	NW_004516574.1	scaffold1348_1	1323248	AA	GG	GG	INTERGENIC		
SNP_94614_A_1323270	NW_004516574.1	scaffold1348_1	1323270	TT	CC	CC	INTERGENIC		
SNP_94615_A_1324256	NW_004516574.1	scaffold1348_1	1324256	GG	AA	AA	DRR	101506952	uncharacterized LOC101506952
SNP_94616_A_1326876	NW_004516574.1	scaffold1348_1	1326876	CC	TT	TT	URR	101506952	uncharacterized LOC101506952
SNP_94617_A_1326881	NW_004516574.1	scaffold1348_1	1326881	GG	AA	AA	URR	101506952	uncharacterized LOC101506952
SNP_94618_A_1326925	NW_004516574.1	scaffold1348_1	1326925	GG	TT	TT	URR	101506952	uncharacterized LOC101506952
SNP_94619_A_1329948	NW_004516574.1	scaffold1348_1	1329948	GG	AA	AA	INTERGENIC		
SNP_94620_A_1330052	NW_004516574.1	scaffold1348_1	1330052	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94621_A_1330053	NW_004516574.1	scaffold1348_1	1330053	TT	GG	GG	INTERGENIC		
SNP_94622_A_1330054	NW_004516574.1	scaffold1348_1	1330054	TT	CC	CC	INTERGENIC		
SNP_94623_A_1330353	NW_004516574.1	scaffold1348_1	1330353	TT	AA	AA	INTERGENIC		
SNP_94624_A_1330355	NW_004516574.1	scaffold1348_1	1330355	TT	AA	AA	INTERGENIC		
SNP_94625_A_1332094	NW_004516574.1	scaffold1348_1	1332094	TT	AA	AA	INTERGENIC		
SNP_94626_A_1332164	NW_004516574.1	scaffold1348_1	1332164	GG	CC	CC	INTERGENIC		
SNP_94627_A_1332539	NW_004516574.1	scaffold1348_1	1332539	CC	GG	GG	INTERGENIC		
SNP_94628_A_1332683	NW_004516574.1	scaffold1348_1	1332683	CC	AA	AA	INTERGENIC		
SNP_94629_A_1336085	NW_004516574.1	scaffold1348_1	1336085	TT	AA	AA	INTRON	101507273	protein LATERAL ORGAN BOUNDARIES-like
SNP_94630_A_1337376	NW_004516574.1	scaffold1348_1	1337376	AA	GG	GG	URR	101507273	protein LATERAL ORGAN BOUNDARIES-like
SNP_94631_A_1341027	NW_004516574.1	scaffold1348_1	1341027	TT	CC	CC	INTERGENIC		
SNP_94632_A_1341587	NW_004516574.1	scaffold1348_1	1341587	TT	CC	CC	INTERGENIC		
SNP_94633_A_1346857	NW_004516574.1	scaffold1348_1	1346857	GG	AA	AA	URR	101507806	oleosin 16.4 kDa-like
SNP_94634_A_1350917	NW_004516574.1	scaffold1348_1	1350917	TT	CC	CC	INTERGENIC		
SNP_94635_A_1350941	NW_004516574.1	scaffold1348_1	1350941	GG	AA	AA	INTERGENIC		
SNP_94637_A_1354157	NW_004516574.1	scaffold1348_1	1354157	GG	AA	AA	INTRON	101508125	tryptophan aminotransferase-related protein 2-like
SNP_94638_A_1355406	NW_004516574.1	scaffold1348_1	1355406	CC	TT	TT	URR	101508125	tryptophan aminotransferase-related protein 2-like
SNP_94639_A_1355422	NW_004516574.1	scaffold1348_1	1355422	CC	AA	AA	URR	101508125	tryptophan aminotransferase-related protein 2-like
SNP_94640_A_1355464	NW_004516574.1	scaffold1348_1	1355464	TT	CC	CC	URR	101508125	tryptophan aminotransferase-related protein 2-like
SNP_94641_A_1355688	NW_004516574.1	scaffold1348_1	1355688	TT	AA	AA	URR	101508125	tryptophan aminotransferase-related protein 2-like
SNP_94642_A_1358199	NW_004516574.1	scaffold1348_1	1358199	TT	AA	AA	INTERGENIC		
SNP_94643_A_1361041	NW_004516574.1	scaffold1348_1	1361041	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94645_A_1361409	NW_004516574.1	scaffold1348_1	1361409	TT	CC	CC	INTERGENIC		
SNP_94646_A_1361429	NW_004516574.1	scaffold1348_1	1361429	AA	GG	GG	INTERGENIC		
SNP_94647_A_1361745	NW_004516574.1	scaffold1348_1	1361745	GG	CC	CC	INTERGENIC		
SNP_94648_A_1361757	NW_004516574.1	scaffold1348_1	1361757	AA	GG	GG	INTERGENIC		
SNP_94649_A_1364314	NW_004516574.1	scaffold1348_1	1364314	TT	CC	CC	INTERGENIC		
SNP_94650_A_1364383	NW_004516574.1	scaffold1348_1	1364383	AA	TT	TT	INTERGENIC		
SNP_94651_A_1364594	NW_004516574.1	scaffold1348_1	1364594	TT	AA	AA	INTERGENIC		
SNP_94652_A_1364602	NW_004516574.1	scaffold1348_1	1364602	GG	AA	AA	INTERGENIC		
SNP_94653_A_1364667	NW_004516574.1	scaffold1348_1	1364667	GG	CC	CC	INTERGENIC		
SNP_94654_A_1365096	NW_004516574.1	scaffold1348_1	1365096	TT	AA	AA	INTERGENIC		
SNP_94655_A_1366499	NW_004516574.1	scaffold1348_1	1366499	AA	GG	GG	INTERGENIC		
SNP_94656_A_1366520	NW_004516574.1	scaffold1348_1	1366520	CC	TT	TT	INTERGENIC		
SNP_94658_A_1371304	NW_004516574.1	scaffold1348_1	1371304	TT	AA	AA	DRR	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94659_A_1371614	NW_004516574.1	scaffold1348_1	1371614	TT	GG	GG	NON_SYNONYMOUS_CODING	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94660_A_1372535	NW_004516574.1	scaffold1348_1	1372535	GG	AA	AA	SYNONYMOUS_CODING	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94661_A_1372853	NW_004516574.1	scaffold1348_1	1372853	AA	GG	GG	SYNONYMOUS_CODING	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94663_A_1382894	NW_004516574.1	scaffold1348_1	1382894	TT	CC	CC	INTRON	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94664_A_1383210	NW_004516574.1	scaffold1348_1	1383210	TT	CC	CC	SYNONYMOUS_CODING	101508653	FKBP12-interacting protein of 37 kDa-like
SNP_94665_A_1387479	NW_004516574.1	scaffold1348_1	1387479	GG	AA	AA	INTERGENIC		
SNP_94666_A_1387483	NW_004516574.1	scaffold1348_1	1387483	CC	GG	GG	INTERGENIC		
SNP_94667_A_1391261	NW_004516574.1	scaffold1348_1	1391261	GG	AA	AA	INTERGENIC		
SNP_94668_A_1397486	NW_004516574.1	scaffold1348_1	1397486	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94669_A_1403163	NW_004516574.1	scaffold1348_1	1403163	AA	TT	TT	INTERGENIC		
SNP_94670_A_1408512	NW_004516574.1	scaffold1348_1	1408512	AA	CC	CC	URR	101489511	Unknown function
SNP_94671_A_1408784	NW_004516574.1	scaffold1348_1	1408784	CC	TT	TT	URR	101489511	Unknown function
SNP_94672_A_76	NW_004516576.1	scaffold1351	76	GG	TT	TT	INTERGENIC		
SNP_94673_A_133	NW_004516576.1	scaffold1351	133	CC	TT	TT	INTERGENIC		
SNP_94674_A_143	NW_004516576.1	scaffold1351	143	AA	CC	CC	INTERGENIC		
SNP_94676_A_21764	NW_004516576.1	scaffold1351	21764	TT	CC	CC	INTERGENIC		
SNP_94677_A_45779	NW_004516576.1	scaffold1351	45779	TT	CC	CC	INTERGENIC		
SNP_94678_A_62536	NW_004516576.1	scaffold1351	62536	CC	TT	TT	INTERGENIC		
SNP_94679_A_62544	NW_004516576.1	scaffold1351	62544	CC	TT	TT	INTERGENIC		
SNP_94680_A_62548	NW_004516576.1	scaffold1351	62548	CC	AA	AA	INTERGENIC		
SNP_94681_A_62568	NW_004516576.1	scaffold1351	62568	GG	AA	AA	INTERGENIC		
SNP_94682_A_98237	NW_004516576.1	scaffold1351	98237	AA	CC	CC	INTERGENIC		
SNP_94683_A_128227	NW_004516576.1	scaffold1351	128227	AA	TT	TT	INTERGENIC		
SNP_94684_A_143534	NW_004516576.1	scaffold1351	143534	TT	CC	CC	DRR	101493084	probable pectate lyase 12
SNP_94685_A_163210	NW_004516576.1	scaffold1351	163210	AA	GG	GG	INTRON	101499364	transcription factor MYB32-like
SNP_94686_A_194779	NW_004516576.1	scaffold1351	194779	GG	TT	TT	INTERGENIC		
SNP_94687_A_198685	NW_004516576.1	scaffold1351	198685	GG	AA	AA	INTRON	101495866	alpha carbonic anhydrase 7-like
SNP_94688_A_198952	NW_004516576.1	scaffold1351	198952	CC	TT	TT	INTRON	101495866	alpha carbonic anhydrase 7-like
SNP_94689_A_198998	NW_004516576.1	scaffold1351	198998	CC	TT	TT	INTRON	101495866	alpha carbonic anhydrase 7-like
SNP_94690_A_199094	NW_004516576.1	scaffold1351	199094	GG	AA	AA	INTRON	101495866	alpha carbonic anhydrase 7-like
SNP_94691_A_220066	NW_004516576.1	scaffold1351	220066	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94692_A_224364	NW_004516576.1	scaffold1351	224364	GG	TT	TT	DRR	101496523	zinc finger protein ZAT5
SNP_94693_A_264773	NW_004516576.1	scaffold1351	264773	TT	CC	CC	INTERGENIC		
SNP_94694_A_274726	NW_004516576.1	scaffold1351	274726	GG	AA	AA	INTERGENIC		
SNP_94695_A_274812	NW_004516576.1	scaffold1351	274812	CC	TT	TT	INTERGENIC		
SNP_94697_A_286240	NW_004516576.1	scaffold1351	286240	AA	GG	GG	INTERGENIC		
SNP_94698_A_302713	NW_004516576.1	scaffold1351	302713	AA	GG	GG	SYNONYMOUS_CODING	101500644	Unknown function
SNP_94699_A_302734	NW_004516576.1	scaffold1351	302734	GG	CC	CC	NON_SYNONYMOUS_CODING	101500644	Unknown function
SNP_94700_A_302771	NW_004516576.1	scaffold1351	302771	TT	CC	CC	NON_SYNONYMOUS_CODING	101500644	Unknown function
SNP_94701_A_332801	NW_004516576.1	scaffold1351	332801	AA	GG	GG	INTERGENIC		
SNP_94702_A_332808	NW_004516576.1	scaffold1351	332808	CC	AA	AA	INTERGENIC		
SNP_94704_A_333082	NW_004516576.1	scaffold1351	333082	TT	CC	CC	INTERGENIC		
SNP_94705_A_342422	NW_004516576.1	scaffold1351	342422	GG	AA	AA	DRR	101500952	Unknown function
SNP_94706_A_342503	NW_004516576.1	scaffold1351	342503	TT	GG	GG	DRR	101500952	Unknown function
SNP_94707_A_342783	NW_004516576.1	scaffold1351	342783	GG	TT	TT	DRR	101500952	Unknown function
SNP_94708_A_342835	NW_004516576.1	scaffold1351	342835	TT	CC	CC	DRR	101500952	Unknown function
SNP_94709_A_350106	NW_004516576.1	scaffold1351	350106	CC	TT	TT	INTERGENIC		
SNP_94710_A_365754	NW_004516576.1	scaffold1351	365754	TT	CC	CC	INTERGENIC		
SNP_94711_A_365774	NW_004516576.1	scaffold1351	365774	CC	TT	TT	INTERGENIC		
SNP_94712_A_366068	NW_004516576.1	scaffold1351	366068	GG	TT	TT	INTRON	101497514	aldehyde dehydrogenase family 3 member H1-like
SNP_94713_A_405	NW_004516582.1	scaffold1358	405	AA	TT	TT	INTERGENIC		
SNP_94714_A_476	NW_004516582.1	scaffold1358	476	CC	TT	TT	INTERGENIC		
SNP_94716_A_522	NW_004516582.1	scaffold1358	522	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94717_A_578	NW_004516582.1	scaffold1358	578	AA	GG	GG	INTERGENIC			
SNP_94718_A_682	NW_004516582.1	scaffold1358	682	TT	CC	CC	INTERGENIC			
SNP_94719_A_705	NW_004516582.1	scaffold1358	705	CC	AA	AA	INTERGENIC			
SNP_94720_A_732	NW_004516582.1	scaffold1358	732	AA	CC	CC	INTERGENIC			
SNP_94721_A_752	NW_004516582.1	scaffold1358	752	GG	AA	AA	INTERGENIC			
SNP_94723_A_812	NW_004516582.1	scaffold1358	812	CC	AA	AA	INTERGENIC			
SNP_94724_A_814	NW_004516582.1	scaffold1358	814	AA	TT	TT	INTERGENIC			
SNP_94725_A_1229	NW_004516582.1	scaffold1358	1229	AA	CC	CC	INTERGENIC			
SNP_94726_A_1295	NW_004516582.1	scaffold1358	1295	CC	TT	TT	INTERGENIC			
SNP_94727_A_9749	NW_004516582.1	scaffold1358	9749	AA	GG	GG	INTERGENIC			
SNP_94728_A_9797	NW_004516582.1	scaffold1358	9797	TT	AA	AA	INTERGENIC			
SNP_94729_A_10073	NW_004516582.1	scaffold1358	10073	GG	AA	AA	INTERGENIC			
SNP_94730_A_10138	NW_004516582.1	scaffold1358	10138	CC	AA	AA	INTERGENIC			
SNP_94731_A_10227	NW_004516582.1	scaffold1358	10227	AA	CC	CC	INTERGENIC			
SNP_94732_A_10289	NW_004516582.1	scaffold1358	10289	AA	TT	TT	INTERGENIC			
SNP_94733_A_10592	NW_004516582.1	scaffold1358	10592	GG	AA	AA	INTERGENIC			
SNP_94734_A_11757	NW_004516582.1	scaffold1358	11757	AA	GG	GG	INTERGENIC			
SNP_94735_A_11825	NW_004516582.1	scaffold1358	11825	AA	GG	GG	INTERGENIC			
SNP_94736_A_11940	NW_004516582.1	scaffold1358	11940	CC	TT	TT	INTERGENIC			
SNP_94737_A_12062	NW_004516582.1	scaffold1358	12062	CC	GG	GG	INTERGENIC			
SNP_94738_A_12088	NW_004516582.1	scaffold1358	12088	CC	GG	GG	INTERGENIC			
SNP_94739_A_12128	NW_004516582.1	scaffold1358	12128	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94740_A_58609	NW_004516583.1	scaffold1359	58609	CC	TT	TT	INTERGENIC		
SNP_94741_A_74383	NW_004516583.1	scaffold1359	74383	TT	AA	AA	INTERGENIC		
SNP_94743_A_74688	NW_004516583.1	scaffold1359	74688	AA	TT	TT	DRR	101501796	Unknown function
SNP_94744_A_74690	NW_004516583.1	scaffold1359	74690	CC	TT	TT	DRR	101501796	Unknown function
SNP_94745_A_99544	NW_004516583.1	scaffold1359	99544	TT	CC	CC	INTERGENIC		
SNP_94747_A_101209	NW_004516583.1	scaffold1359	101209	TT	CC	CC	INTERGENIC		
SNP_94748_A_101234	NW_004516583.1	scaffold1359	101234	TT	CC	CC	INTERGENIC		
SNP_94749_A_109129	NW_004516583.1	scaffold1359	109129	CC	TT	TT	INTERGENIC		
SNP_94750_A_115186	NW_004516583.1	scaffold1359	115186	TT	CC	CC	INTERGENIC		
SNP_94751_A_126901	NW_004516583.1	scaffold1359	126901	TT	GG	GG	INTERGENIC		
SNP_94752_A_2830	NW_004516584.1	scaffold1360	2830	CC	TT	TT	INTERGENIC		
SNP_94753_A_2835	NW_004516584.1	scaffold1360	2835	TT	AA	AA	INTERGENIC		
SNP_94754_A_10528	NW_004516584.1	scaffold1360	10528	CC	AA	AA	INTERGENIC		
SNP_94755_A_14198	NW_004516584.1	scaffold1360	14198	GG	TT	TT	INTERGENIC		
SNP_94756_A_14354	NW_004516584.1	scaffold1360	14354	AA	GG	GG	INTERGENIC		
SNP_94757_A_14459	NW_004516584.1	scaffold1360	14459	AA	TT	TT	INTERGENIC		
SNP_94758_A_17301	NW_004516584.1	scaffold1360	17301	GG	AA	AA	INTERGENIC		
SNP_94759_A_17318	NW_004516584.1	scaffold1360	17318	AA	CC	CC	INTERGENIC		
SNP_94761_A_17450	NW_004516584.1	scaffold1360	17450	GG	AA	AA	INTERGENIC		
SNP_94762_A_76885	NW_004516587.1	scaffold1364	76885	TT	AA	AA	INTERGENIC		
SNP_94764_A_110485	NW_004516587.1	scaffold1364	110485	AA	GG	GG	INTERGENIC		
SNP_94765_A_114925	NW_004516587.1	scaffold1364	114925	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94766_A_137283	NW_004516587.1	scaffold1364	137283	GG	AA	AA	INTERGENIC			
SNP_94767_A_149523	NW_004516587.1	scaffold1364	149523	CC	AA	AA	INTERGENIC			
SNP_94768_A_604	NW_004516588.1	scaffold1365	604	AA	TT	TT	INTERGENIC			
SNP_94769_A_682	NW_004516588.1	scaffold1365	682	CC	AA	AA	INTERGENIC			
SNP_94771_A_7094	NW_004516588.1	scaffold1365	7094	AA	TT	TT	INTERGENIC			
SNP_94772_A_7404	NW_004516588.1	scaffold1365	7404	GG	AA	AA	INTERGENIC			
SNP_94773_A_7426	NW_004516588.1	scaffold1365	7426	TT	GG	GG	INTERGENIC			
SNP_94774_A_7472	NW_004516588.1	scaffold1365	7472	AA	TT	TT	INTERGENIC			
SNP_94775_A_7760	NW_004516588.1	scaffold1365	7760	GG	TT	TT	INTERGENIC			
SNP_94776_A_7768	NW_004516588.1	scaffold1365	7768	CC	TT	TT	INTERGENIC			
SNP_94777_A_7774	NW_004516588.1	scaffold1365	7774	GG	CC	CC	INTERGENIC			
SNP_94778_A_7843	NW_004516588.1	scaffold1365	7843	AA	TT	TT	INTERGENIC			
SNP_94779_A_8126	NW_004516588.1	scaffold1365	8126	CC	TT	TT	INTERGENIC			
SNP_94780_A_8129	NW_004516588.1	scaffold1365	8129	AA	TT	TT	INTERGENIC			
SNP_94781_A_8130	NW_004516588.1	scaffold1365	8130	TT	CC	CC	INTERGENIC			
SNP_94782_A_8200	NW_004516588.1	scaffold1365	8200	TT	AA	AA	INTERGENIC			
SNP_94783_A_8212	NW_004516588.1	scaffold1365	8212	AA	GG	GG	INTERGENIC			
SNP_94784_A_8227	NW_004516588.1	scaffold1365	8227	TT	AA	AA	INTERGENIC			
SNP_94785_A_8265	NW_004516588.1	scaffold1365	8265	CC	GG	GG	INTERGENIC			
SNP_94786_A_8277	NW_004516588.1	scaffold1365	8277	GG	AA	AA	INTERGENIC			
SNP_94787_A_8354	NW_004516588.1	scaffold1365	8354	CC	TT	TT	INTERGENIC			
SNP_94788_A_8423	NW_004516588.1	scaffold1365	8423	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94789_A_8468	NW_004516588.1	scaffold1365	8468	CC	GG	GG	INTERGENIC			
SNP_94790_A_8563	NW_004516588.1	scaffold1365	8563	GG	CC	CC	INTERGENIC			
SNP_94791_A_8658	NW_004516588.1	scaffold1365	8658	TT	AA	AA	INTERGENIC			
SNP_94792_A_8723	NW_004516588.1	scaffold1365	8723	TT	GG	GG	INTERGENIC			
SNP_94793_A_18151	NW_004516588.1	scaffold1365	18151	TT	AA	AA	INTERGENIC			
SNP_94794_A_18215	NW_004516588.1	scaffold1365	18215	CC	AA	AA	INTERGENIC			
SNP_94797_A_74762	NW_004516588.1	scaffold1365	74762	AA	GG	GG	INTERGENIC			
SNP_94798_A_86598	NW_004516588.1	scaffold1365	86598	TT	AA	AA	INTERGENIC			
SNP_94799_A_86662	NW_004516588.1	scaffold1365	86662	CC	TT	TT	INTERGENIC			
SNP_94800_A_86831	NW_004516588.1	scaffold1365	86831	CC	AA	AA	INTERGENIC			
SNP_94801_A_86862	NW_004516588.1	scaffold1365	86862	TT	CC	CC	INTERGENIC			
SNP_94802_A_86973	NW_004516588.1	scaffold1365	86973	AA	GG	GG	INTERGENIC			
SNP_94803_A_86993	NW_004516588.1	scaffold1365	86993	TT	CC	CC	INTERGENIC			
SNP_94804_A_87050	NW_004516588.1	scaffold1365	87050	CC	GG	GG	INTERGENIC			
SNP_94805_A_87505	NW_004516588.1	scaffold1365	87505	GG	TT	TT	INTERGENIC			
SNP_94806_A_87506	NW_004516588.1	scaffold1365	87506	TT	GG	GG	INTERGENIC			
SNP_94807_A_87526	NW_004516588.1	scaffold1365	87526	CC	AA	AA	INTERGENIC			
SNP_94808_A_87551	NW_004516588.1	scaffold1365	87551	CC	AA	AA	INTERGENIC			
SNP_94809_A_89127	NW_004516588.1	scaffold1365	89127	GG	AA	AA	INTERGENIC			
SNP_94810_A_95518	NW_004516588.1	scaffold1365	95518	AA	TT	TT	INTERGENIC			
SNP_94811_A_96106	NW_004516588.1	scaffold1365	96106	CC	TT	TT	INTERGENIC			
SNP_94812_A_96631	NW_004516588.1	scaffold1365	96631	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94813_A_96864	NW_004516588.1	scaffold1365	96864	GG	AA	AA	INTERGENIC			
SNP_94814_A_97347	NW_004516588.1	scaffold1365	97347	CC	TT	TT	INTERGENIC			
SNP_94815_A_97469	NW_004516588.1	scaffold1365	97469	TT	CC	CC	INTERGENIC			
SNP_94816_A_98724	NW_004516588.1	scaffold1365	98724	TT	CC	CC	INTERGENIC			
SNP_94817_A_98787	NW_004516588.1	scaffold1365	98787	GG	CC	CC	INTERGENIC			
SNP_94818_A_98885	NW_004516588.1	scaffold1365	98885	CC	AA	AA	INTERGENIC			
SNP_94819_A_98901	NW_004516588.1	scaffold1365	98901	TT	GG	GG	INTERGENIC			
SNP_94820_A_99083	NW_004516588.1	scaffold1365	99083	AA	TT	TT	INTERGENIC			
SNP_94821_A_99146	NW_004516588.1	scaffold1365	99146	AA	GG	GG	INTERGENIC			
SNP_94822_A_99150	NW_004516588.1	scaffold1365	99150	GG	TT	TT	INTERGENIC			
SNP_94823_A_99268	NW_004516588.1	scaffold1365	99268	CC	TT	TT	INTERGENIC			
SNP_94824_A_99351	NW_004516588.1	scaffold1365	99351	CC	AA	AA	INTERGENIC			
SNP_94825_A_99834	NW_004516588.1	scaffold1365	99834	GG	TT	TT	INTERGENIC			
SNP_94826_A_102505	NW_004516588.1	scaffold1365	102505	AA	GG	GG	INTERGENIC			
SNP_94827_A_102523	NW_004516588.1	scaffold1365	102523	GG	TT	TT	INTERGENIC			
SNP_94828_A_104475	NW_004516588.1	scaffold1365	104475	AA	TT	TT	INTERGENIC			
SNP_94829_A_104476	NW_004516588.1	scaffold1365	104476	TT	CC	CC	INTERGENIC			
SNP_94830_A_104504	NW_004516588.1	scaffold1365	104504	AA	TT	TT	INTERGENIC			
SNP_94831_A_104524	NW_004516588.1	scaffold1365	104524	CC	GG	GG	INTERGENIC			
SNP_94832_A_231	NW_004516589.1	scaffold1366	231	AA	TT	TT	INTERGENIC			
SNP_94833_A_1046	NW_004516589.1	scaffold1366	1046	AA	GG	GG	INTERGENIC			
SNP_94835_A_22363	NW_004516590.1	scaffold1367	22363	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94836_A_22371	NW_004516590.1	scaffold1367	22371	AA	CC	CC	INTERGENIC		
SNP_94837_A_22398	NW_004516590.1	scaffold1367	22398	AA	GG	GG	INTERGENIC		
SNP_94838_A_22418	NW_004516590.1	scaffold1367	22418	AA	TT	TT	INTERGENIC		
SNP_94839_A_31184	NW_004516590.1	scaffold1367	31184	CC	TT	TT	INTERGENIC		
SNP_94840_A_683	NW_004516591.1	scaffold1368	683	CC	TT	TT	INTERGENIC		
SNP_94841_A_5116	NW_004516592.1	scaffold1369	5116	CC	AA	AA	DRR	101502641	PRA1 family protein A1-like
SNP_94842_A_68091	NW_004516592.1	scaffold1369	68091	AA	CC	CC	INTERGENIC		
SNP_94843_A_68092	NW_004516592.1	scaffold1369	68092	GG	AA	AA	INTERGENIC		
SNP_94844_A_75583	NW_004516592.1	scaffold1369	75583	AA	GG	GG	INTRON	101504796	uncharacterized LOC101504796
SNP_94845_A_76646	NW_004516592.1	scaffold1369	76646	TT	AA	AA	INTRON	101504796	uncharacterized LOC101504796
SNP_94846_A_76676	NW_004516592.1	scaffold1369	76676	TT	CC	CC	INTRON	101504796	uncharacterized LOC101504796
SNP_94847_A_76677	NW_004516592.1	scaffold1369	76677	CC	TT	TT	INTRON	101504796	uncharacterized LOC101504796
SNP_94848_A_76742	NW_004516592.1	scaffold1369	76742	AA	GG	GG	INTRON	101504796	uncharacterized LOC101504796
SNP_94849_A_77014	NW_004516592.1	scaffold1369	77014	AA	GG	GG	INTRON	101504796	uncharacterized LOC101504796
SNP_94850_A_77113	NW_004516592.1	scaffold1369	77113	TT	GG	GG	NON_SYNONYMOUS_CODING	101504796	uncharacterized LOC101504796
SNP_94851_A_77140	NW_004516592.1	scaffold1369	77140	AA	GG	GG	SYNONYMOUS_CODING	101504796	uncharacterized LOC101504796
SNP_94852_A_77199	NW_004516592.1	scaffold1369	77199	GG	TT	TT	NON_SYNONYMOUS_CODING	101504796	uncharacterized LOC101504796
SNP_94853_A_81027	NW_004516592.1	scaffold1369	81027	AA	GG	GG	INTRON	101504796	uncharacterized LOC101504796
SNP_94854_A_196937	NW_004516592.1	scaffold1369	196937	CC	TT	TT	INTERGENIC		
SNP_94855_A_197020	NW_004516592.1	scaffold1369	197020	GG	AA	AA	INTERGENIC		
SNP_94856_A_197203	NW_004516592.1	scaffold1369	197203	GG	TT	TT	INTERGENIC		
SNP_94857_A_197264	NW_004516592.1	scaffold1369	197264	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94858_A_205531	NW_004516592.1	scaffold1369	205531	CC	TT	TT	INTERGENIC			
SNP_94859_A_205541	NW_004516592.1	scaffold1369	205541	CC	TT	TT	INTERGENIC			
SNP_94860_A_214386	NW_004516592.1	scaffold1369	214386	CC	TT	TT	INTERGENIC			
SNP_94861_A_214394	NW_004516592.1	scaffold1369	214394	TT	CC	CC	INTERGENIC			
SNP_94862_A_448	NW_004516593.1	scaffold1370	448	TT	AA	AA	INTERGENIC			
SNP_94864_A_22792	NW_004516593.1	scaffold1370	22792	AA	GG	GG	INTERGENIC			
SNP_94865_A_22821	NW_004516593.1	scaffold1370	22821	AA	GG	GG	INTERGENIC			
SNP_94866_A_23117	NW_004516593.1	scaffold1370	23117	TT	GG	GG	INTERGENIC			
SNP_94867_A_23188	NW_004516593.1	scaffold1370	23188	TT	CC	CC	INTERGENIC			
SNP_94868_A_27588	NW_004516593.1	scaffold1370	27588	GG	AA	AA	INTERGENIC			
SNP_94869_A_27669	NW_004516593.1	scaffold1370	27669	AA	GG	GG	INTERGENIC			
SNP_94870_A_27721	NW_004516593.1	scaffold1370	27721	AA	GG	GG	INTERGENIC			
SNP_94871_A_27871	NW_004516593.1	scaffold1370	27871	TT	CC	CC	INTERGENIC			
SNP_94872_A_27890	NW_004516593.1	scaffold1370	27890	TT	GG	GG	INTERGENIC			
SNP_94873_A_27894	NW_004516593.1	scaffold1370	27894	AA	GG	GG	INTERGENIC			
SNP_94874_A_27901	NW_004516593.1	scaffold1370	27901	AA	GG	GG	INTERGENIC			
SNP_94875_A_27935	NW_004516593.1	scaffold1370	27935	GG	TT	TT	INTERGENIC			
SNP_94876_A_27936	NW_004516593.1	scaffold1370	27936	CC	TT	TT	INTERGENIC			
SNP_94877_A_28040	NW_004516593.1	scaffold1370	28040	TT	CC	CC	INTERGENIC			
SNP_94878_A_39244	NW_004516593.1	scaffold1370	39244	AA	GG	GG	INTERGENIC			
SNP_94879_A_86394	NW_004516593.1	scaffold1370	86394	CC	GG	GG	INTERGENIC			
SNP_94880_A_86437	NW_004516593.1	scaffold1370	86437	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94881_A_25860	NW_004516594.1	scaffold1371	25860	TT	CC	CC	INTERGENIC			
SNP_94882_A_26768	NW_004516594.1	scaffold1371	26768	AA	CC	CC	INTERGENIC			
SNP_94883_A_27121	NW_004516594.1	scaffold1371	27121	TT	GG	GG	INTERGENIC			
SNP_94884_A_27162	NW_004516594.1	scaffold1371	27162	AA	GG	GG	INTERGENIC			
SNP_94885_A_27238	NW_004516594.1	scaffold1371	27238	GG	TT	TT	INTERGENIC			
SNP_94886_A_27261	NW_004516594.1	scaffold1371	27261	AA	GG	GG	INTERGENIC			
SNP_94887_A_27297	NW_004516594.1	scaffold1371	27297	GG	CC	CC	INTERGENIC			
SNP_94888_A_27363	NW_004516594.1	scaffold1371	27363	GG	AA	AA	INTERGENIC			
SNP_94889_A_27418	NW_004516594.1	scaffold1371	27418	AA	GG	GG	INTERGENIC			
SNP_94890_A_27423	NW_004516594.1	scaffold1371	27423	CC	TT	TT	INTERGENIC			
SNP_94891_A_27526	NW_004516594.1	scaffold1371	27526	TT	CC	CC	INTERGENIC			
SNP_94892_A_27548	NW_004516594.1	scaffold1371	27548	GG	AA	AA	INTERGENIC			
SNP_94893_A_27667	NW_004516594.1	scaffold1371	27667	TT	CC	CC	INTERGENIC			
SNP_94895_A_65095	NW_004516594.1	scaffold1371	65095	AA	GG	GG	INTERGENIC			
SNP_94896_A_65206	NW_004516594.1	scaffold1371	65206	CC	GG	GG	INTERGENIC			
SNP_94897_A_65230	NW_004516594.1	scaffold1371	65230	TT	CC	CC	INTERGENIC			
SNP_94898_A_65257	NW_004516594.1	scaffold1371	65257	AA	GG	GG	INTERGENIC			
SNP_94899_A_65307	NW_004516594.1	scaffold1371	65307	TT	CC	CC	INTERGENIC			
SNP_94900_A_66609	NW_004516594.1	scaffold1371	66609	AA	GG	GG	INTERGENIC			
SNP_94902_A_21854	NW_004516597.1	scaffold1376	21854	GG	AA	AA	NON_SYNONYMOUS_CODING	101507808	Unknown function	
SNP_94903_A_21877	NW_004516597.1	scaffold1376	21877	TT	CC	CC	NON_SYNONYMOUS_CODING	101507808	Unknown function	
SNP_94904_A_21943	NW_004516597.1	scaffold1376	21943	TT	CC	CC	INTRON	101507808	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94905_A_22232	NW_004516597.1	scaffold1376	22232	GG	AA	AA	NON_SYNONYMOUS_CODING	101507808	Unknown function
SNP_94906_A_22262	NW_004516597.1	scaffold1376	22262	TT	CC	CC	NON_SYNONYMOUS_CODING	101507808	Unknown function
SNP_94907_A_22269	NW_004516597.1	scaffold1376	22269	TT	AA	AA	NON_SYNONYMOUS_CODING	101507808	Unknown function
SNP_94908_A_22273	NW_004516597.1	scaffold1376	22273	AA	GG	GG	SYNONYMOUS_CODING	101507808	Unknown function
SNP_94910_A_41658	NW_004516597.1	scaffold1376	41658	AA	GG	GG	INTERGENIC		
SNP_94911_A_54150	NW_004516597.1	scaffold1376	54150	CC	AA	AA	INTERGENIC		
SNP_94912_A_54155	NW_004516597.1	scaffold1376	54155	GG	TT	TT	INTERGENIC		
SNP_94913_A_54222	NW_004516597.1	scaffold1376	54222	AA	GG	GG	INTERGENIC		
SNP_94914_A_57806	NW_004516597.1	scaffold1376	57806	GG	AA	AA	INTERGENIC		
SNP_94915_A_57809	NW_004516597.1	scaffold1376	57809	AA	CC	CC	INTERGENIC		
SNP_94916_A_57819	NW_004516597.1	scaffold1376	57819	AA	GG	GG	INTERGENIC		
SNP_94917_A_57835	NW_004516597.1	scaffold1376	57835	AA	GG	GG	INTERGENIC		
SNP_94918_A_57839	NW_004516597.1	scaffold1376	57839	AA	GG	GG	INTERGENIC		
SNP_94919_A_57845	NW_004516597.1	scaffold1376	57845	TT	AA	AA	INTERGENIC		
SNP_94920_A_57853	NW_004516597.1	scaffold1376	57853	AA	GG	GG	INTERGENIC		
SNP_94921_A_57872	NW_004516597.1	scaffold1376	57872	GG	AA	AA	INTERGENIC		
SNP_94922_A_57884	NW_004516597.1	scaffold1376	57884	TT	GG	GG	INTERGENIC		
SNP_94923_A_57889	NW_004516597.1	scaffold1376	57889	CC	AA	AA	INTERGENIC		
SNP_94924_A_57905	NW_004516597.1	scaffold1376	57905	TT	CC	CC	INTERGENIC		
SNP_94925_A_57929	NW_004516597.1	scaffold1376	57929	CC	TT	TT	INTERGENIC		
SNP_94926_A_57971	NW_004516597.1	scaffold1376	57971	TT	CC	CC	INTERGENIC		
SNP_94927_A_58001	NW_004516597.1	scaffold1376	58001	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94928_A_58034	NW_004516597.1	scaffold1376	58034	AA	GG	GG	INTERGENIC			
SNP_94929_A_58083	NW_004516597.1	scaffold1376	58083	GG	AA	AA	INTERGENIC			
SNP_94930_A_58266	NW_004516597.1	scaffold1376	58266	TT	AA	AA	INTERGENIC			
SNP_94931_A_58335	NW_004516597.1	scaffold1376	58335	CC	TT	TT	INTERGENIC			
SNP_94932_A_58345	NW_004516597.1	scaffold1376	58345	GG	AA	AA	INTERGENIC			
SNP_94933_A_58371	NW_004516597.1	scaffold1376	58371	CC	AA	AA	INTERGENIC			
SNP_94934_A_58383	NW_004516597.1	scaffold1376	58383	AA	GG	GG	INTERGENIC			
SNP_94935_A_58403	NW_004516597.1	scaffold1376	58403	TT	CC	CC	INTERGENIC			
SNP_94936_A_60342	NW_004516597.1	scaffold1376	60342	GG	AA	AA	INTERGENIC			
SNP_94937_A_66227	NW_004516597.1	scaffold1376	66227	AA	GG	GG	INTERGENIC			
SNP_94938_A_66273	NW_004516597.1	scaffold1376	66273	GG	AA	AA	INTERGENIC			
SNP_94939_A_66274	NW_004516597.1	scaffold1376	66274	AA	GG	GG	INTERGENIC			
SNP_94940_A_66292	NW_004516597.1	scaffold1376	66292	TT	CC	CC	INTERGENIC			
SNP_94941_A_66466	NW_004516597.1	scaffold1376	66466	CC	TT	TT	INTERGENIC			
SNP_94942_A_66493	NW_004516597.1	scaffold1376	66493	AA	GG	GG	INTERGENIC			
SNP_94943_A_66655	NW_004516597.1	scaffold1376	66655	TT	CC	CC	INTERGENIC			
SNP_94944_A_68993	NW_004516597.1	scaffold1376	68993	GG	AA	AA	INTERGENIC			
SNP_94945_A_69130	NW_004516597.1	scaffold1376	69130	CC	AA	AA	INTERGENIC			
SNP_94946_A_69397	NW_004516597.1	scaffold1376	69397	CC	TT	TT	INTERGENIC			
SNP_94947_A_69398	NW_004516597.1	scaffold1376	69398	GG	AA	AA	INTERGENIC			
SNP_94948_A_69537	NW_004516597.1	scaffold1376	69537	CC	TT	TT	INTERGENIC			
SNP_94949_A_69624	NW_004516597.1	scaffold1376	69624	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_94950_A_69648	NW_004516597.1	scaffold1376	69648	CC	AA	AA	INTERGENIC			
SNP_94951_A_1726	NW_004516600.1	scaffold1380	1726	AA	GG	GG	INTERGENIC			
SNP_94952_A_1828	NW_004516600.1	scaffold1380	1828	GG	CC	CC	INTERGENIC			
SNP_94953_A_5355	NW_004516600.1	scaffold1380	5355	AA	CC	CC	INTERGENIC			
SNP_94955_A_6440	NW_004516600.1	scaffold1380	6440	AA	CC	CC	INTERGENIC			
SNP_94956_A_6876	NW_004516600.1	scaffold1380	6876	TT	GG	GG	INTERGENIC			
SNP_94957_A_6939	NW_004516600.1	scaffold1380	6939	AA	GG	GG	INTERGENIC			
SNP_94958_A_7134	NW_004516600.1	scaffold1380	7134	AA	TT	TT	INTERGENIC			
SNP_94959_A_8337	NW_004516600.1	scaffold1380	8337	AA	GG	GG	INTERGENIC			
SNP_94960_A_8355	NW_004516600.1	scaffold1380	8355	GG	AA	AA	INTERGENIC			
SNP_94961_A_8999	NW_004516600.1	scaffold1380	8999	CC	AA	AA	INTERGENIC			
SNP_94963_A_10622	NW_004516600.1	scaffold1380	10622	GG	CC	CC	INTERGENIC			
SNP_94964_A_10723	NW_004516600.1	scaffold1380	10723	GG	AA	AA	INTERGENIC			
SNP_94965_A_10759	NW_004516600.1	scaffold1380	10759	TT	GG	GG	INTERGENIC			
SNP_94966_A_10868	NW_004516600.1	scaffold1380	10868	AA	GG	GG	INTERGENIC			
SNP_94967_A_11105	NW_004516600.1	scaffold1380	11105	CC	AA	AA	INTERGENIC			
SNP_94968_A_12202	NW_004516600.1	scaffold1380	12202	CC	TT	TT	INTERGENIC			
SNP_94970_A_26497	NW_004516601.1	scaffold1382	26497	AA	GG	GG	INTERGENIC			
SNP_94972_A_87709	NW_004516601.1	scaffold1382	87709	CC	TT	TT	INTERGENIC			
SNP_94973_A_150598	NW_004516601.1	scaffold1382	150598	TT	GG	GG	INTERGENIC			
SNP_94974_A_150627	NW_004516601.1	scaffold1382	150627	TT	GG	GG	INTERGENIC			
SNP_94975_A_161600	NW_004516601.1	scaffold1382	161600	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_94977_A_225516	NW_004516601.1	scaffold1382	225516	GG	AA	AA	INTRON	101511012	uncharacterized LOC101511012
SNP_94979_A_225629	NW_004516601.1	scaffold1382	225629	AA	TT	TT	INTRON	101511012	uncharacterized LOC101511012
SNP_94980_A_225633	NW_004516601.1	scaffold1382	225633	AA	GG	GG	INTRON	101511012	uncharacterized LOC101511012
SNP_94981_A_225783	NW_004516601.1	scaffold1382	225783	GG	AA	AA	INTRON	101511012	uncharacterized LOC101511012
SNP_94982_A_225799	NW_004516601.1	scaffold1382	225799	TT	CC	CC	INTRON	101511012	uncharacterized LOC101511012
SNP_94983_A_225949	NW_004516601.1	scaffold1382	225949	GG	TT	TT	INTRON	101511012	uncharacterized LOC101511012
SNP_94984_A_225960	NW_004516601.1	scaffold1382	225960	CC	GG	GG	INTRON	101511012	uncharacterized LOC101511012
SNP_94985_A_225971	NW_004516601.1	scaffold1382	225971	CC	AA	AA	INTRON	101511012	uncharacterized LOC101511012
SNP_94986_A_234117	NW_004516601.1	scaffold1382	234117	CC	TT	TT	INTRON	101511012	uncharacterized LOC101511012
SNP_94987_A_234151	NW_004516601.1	scaffold1382	234151	TT	CC	CC	INTRON	101511012	uncharacterized LOC101511012
SNP_94988_A_234157	NW_004516601.1	scaffold1382	234157	TT	AA	AA	INTRON	101511012	uncharacterized LOC101511012
SNP_94989_A_234168	NW_004516601.1	scaffold1382	234168	CC	TT	TT	INTRON	101511012	uncharacterized LOC101511012
SNP_94990_A_260584	NW_004516601.1	scaffold1382	260584	TT	AA	AA	INTERGENIC		
SNP_94991_A_260911	NW_004516601.1	scaffold1382	260911	CC	GG	GG	INTERGENIC		
SNP_94992_A_260972	NW_004516601.1	scaffold1382	260972	GG	AA	AA	INTERGENIC		
SNP_94993_A_260987	NW_004516601.1	scaffold1382	260987	AA	TT	TT	INTERGENIC		
SNP_94994_A_281777	NW_004516601.1	scaffold1382	281777	TT	CC	CC	INTERGENIC		
SNP_94995_A_281778	NW_004516601.1	scaffold1382	281778	TT	CC	CC	INTERGENIC		
SNP_94996_A_281791	NW_004516601.1	scaffold1382	281791	TT	CC	CC	INTERGENIC		
SNP_94997_A_281851	NW_004516601.1	scaffold1382	281851	CC	TT	TT	INTERGENIC		
SNP_94998_A_281869	NW_004516601.1	scaffold1382	281869	AA	CC	CC	INTERGENIC		
SNP_94999_A_281913	NW_004516601.1	scaffold1382	281913	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95000_A_281935	NW_004516601.1	scaffold1382	281935	GG	AA	AA	INTERGENIC			
SNP_95001_A_281988	NW_004516601.1	scaffold1382	281988	AA	GG	GG	INTERGENIC			
SNP_95002_A_282090	NW_004516601.1	scaffold1382	282090	TT	CC	CC	INTERGENIC			
SNP_95003_A_285939	NW_004516601.1	scaffold1382	285939	AA	CC	CC	INTERGENIC			
SNP_95004_A_292107	NW_004516601.1	scaffold1382	292107	AA	CC	CC	INTERGENIC			
SNP_95005_A_292264	NW_004516601.1	scaffold1382	292264	TT	CC	CC	INTERGENIC			
SNP_95006_A_292483	NW_004516601.1	scaffold1382	292483	AA	CC	CC	INTERGENIC			
SNP_95007_A_292711	NW_004516601.1	scaffold1382	292711	GG	AA	AA	INTERGENIC			
SNP_95008_A_292890	NW_004516601.1	scaffold1382	292890	GG	AA	AA	INTERGENIC			
SNP_95009_A_292945	NW_004516601.1	scaffold1382	292945	CC	TT	TT	INTERGENIC			
SNP_95010_A_293945	NW_004516601.1	scaffold1382	293945	TT	AA	AA	INTERGENIC			
SNP_95011_A_293960	NW_004516601.1	scaffold1382	293960	TT	AA	AA	INTERGENIC			
SNP_95012_A_294026	NW_004516601.1	scaffold1382	294026	TT	AA	AA	INTERGENIC			
SNP_95013_A_294043	NW_004516601.1	scaffold1382	294043	CC	GG	GG	INTERGENIC			
SNP_95014_A_294046	NW_004516601.1	scaffold1382	294046	AA	TT	TT	INTERGENIC			
SNP_95015_A_294052	NW_004516601.1	scaffold1382	294052	CC	TT	TT	INTERGENIC			
SNP_95016_A_294074	NW_004516601.1	scaffold1382	294074	TT	CC	CC	INTERGENIC			
SNP_95017_A_294103	NW_004516601.1	scaffold1382	294103	CC	TT	TT	INTERGENIC			
SNP_95018_A_294110	NW_004516601.1	scaffold1382	294110	CC	AA	AA	INTERGENIC			
SNP_95019_A_294189	NW_004516601.1	scaffold1382	294189	TT	AA	AA	INTERGENIC			
SNP_95020_A_294228	NW_004516601.1	scaffold1382	294228	AA	GG	GG	INTERGENIC			
SNP_95021_A_294264	NW_004516601.1	scaffold1382	294264	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95022_A_294432	NW_004516601.1	scaffold1382	294432	TT	AA	AA	INTERGENIC			
SNP_95023_A_295001	NW_004516601.1	scaffold1382	295001	CC	TT	TT	INTERGENIC			
SNP_95024_A_295013	NW_004516601.1	scaffold1382	295013	CC	TT	TT	INTERGENIC			
SNP_95025_A_295102	NW_004516601.1	scaffold1382	295102	CC	GG	GG	INTERGENIC			
SNP_95026_A_295348	NW_004516601.1	scaffold1382	295348	AA	CC	CC	INTERGENIC			
SNP_95027_A_295406	NW_004516601.1	scaffold1382	295406	CC	GG	GG	INTERGENIC			
SNP_95028_A_295415	NW_004516601.1	scaffold1382	295415	CC	GG	GG	INTERGENIC			
SNP_95029_A_295424	NW_004516601.1	scaffold1382	295424	GG	AA	AA	INTERGENIC			
SNP_95030_A_295455	NW_004516601.1	scaffold1382	295455	GG	TT	TT	INTERGENIC			
SNP_95031_A_295504	NW_004516601.1	scaffold1382	295504	GG	CC	CC	INTERGENIC			
SNP_95032_A_295505	NW_004516601.1	scaffold1382	295505	AA	GG	GG	INTERGENIC			
SNP_95033_A_295693	NW_004516601.1	scaffold1382	295693	AA	GG	GG	INTERGENIC			
SNP_95034_A_295725	NW_004516601.1	scaffold1382	295725	GG	AA	AA	INTERGENIC			
SNP_95035_A_295849	NW_004516601.1	scaffold1382	295849	TT	CC	CC	INTERGENIC			
SNP_95036_A_295961	NW_004516601.1	scaffold1382	295961	AA	TT	TT	INTERGENIC			
SNP_95037_A_296027	NW_004516601.1	scaffold1382	296027	TT	CC	CC	INTERGENIC			
SNP_95038_A_296028	NW_004516601.1	scaffold1382	296028	GG	TT	TT	INTERGENIC			
SNP_95039_A_296051	NW_004516601.1	scaffold1382	296051	GG	CC	CC	INTERGENIC			
SNP_95040_A_296079	NW_004516601.1	scaffold1382	296079	AA	TT	TT	INTERGENIC			
SNP_95041_A_296156	NW_004516601.1	scaffold1382	296156	CC	TT	TT	INTERGENIC			
SNP_95042_A_296177	NW_004516601.1	scaffold1382	296177	AA	TT	TT	INTERGENIC			
SNP_95043_A_296248	NW_004516601.1	scaffold1382	296248	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95044_A_296252	NW_004516601.1	scaffold1382	296252	AA	TT	TT	INTERGENIC			
SNP_95045_A_296357	NW_004516601.1	scaffold1382	296357	AA	TT	TT	INTERGENIC			
SNP_95046_A_296377	NW_004516601.1	scaffold1382	296377	CC	GG	GG	INTERGENIC			
SNP_95047_A_296459	NW_004516601.1	scaffold1382	296459	TT	AA	AA	INTERGENIC			
SNP_95048_A_296496	NW_004516601.1	scaffold1382	296496	TT	CC	CC	INTERGENIC			
SNP_95049_A_296497	NW_004516601.1	scaffold1382	296497	GG	TT	TT	INTERGENIC			
SNP_95050_A_296503	NW_004516601.1	scaffold1382	296503	GG	AA	AA	INTERGENIC			
SNP_95051_A_296544	NW_004516601.1	scaffold1382	296544	TT	CC	CC	INTERGENIC			
SNP_95052_A_296722	NW_004516601.1	scaffold1382	296722	CC	GG	GG	INTERGENIC			
SNP_95053_A_296728	NW_004516601.1	scaffold1382	296728	TT	AA	AA	INTERGENIC			
SNP_95054_A_296735	NW_004516601.1	scaffold1382	296735	TT	CC	CC	INTERGENIC			
SNP_95055_A_296763	NW_004516601.1	scaffold1382	296763	AA	GG	GG	INTERGENIC			
SNP_95056_A_305650	NW_004516601.1	scaffold1382	305650	TT	CC	CC	INTERGENIC			
SNP_95057_A_317135	NW_004516601.1	scaffold1382	317135	TT	AA	AA	INTERGENIC			
SNP_95058_A_338943	NW_004516601.1	scaffold1382	338943	GG	CC	CC	INTERGENIC			
SNP_95060_A_339472	NW_004516601.1	scaffold1382	339472	AA	CC	CC	INTERGENIC			
SNP_95061_A_339522	NW_004516601.1	scaffold1382	339522	TT	GG	GG	INTERGENIC			
SNP_95062_A_339531	NW_004516601.1	scaffold1382	339531	GG	CC	CC	INTERGENIC			
SNP_95063_A_365638	NW_004516601.1	scaffold1382	365638	AA	TT	TT	INTERGENIC			
SNP_95064_A_365646	NW_004516601.1	scaffold1382	365646	GG	TT	TT	INTERGENIC			
SNP_95065_A_365649	NW_004516601.1	scaffold1382	365649	TT	CC	CC	INTERGENIC			
SNP_95066_A_367665	NW_004516601.1	scaffold1382	367665	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95067_A_369136	NW_004516601.1	scaffold1382	369136	CC	AA	AA	INTERGENIC			
SNP_95068_A_374967	NW_004516601.1	scaffold1382	374967	TT	AA	AA	INTERGENIC			
SNP_95069_A_374974	NW_004516601.1	scaffold1382	374974	TT	GG	GG	INTERGENIC			
SNP_95070_A_375254	NW_004516601.1	scaffold1382	375254	AA	CC	CC	INTERGENIC			
SNP_95071_A_375596	NW_004516601.1	scaffold1382	375596	AA	CC	CC	INTERGENIC			
SNP_95072_A_376839	NW_004516601.1	scaffold1382	376839	GG	TT	TT	INTERGENIC			
SNP_95073_A_388189	NW_004516601.1	scaffold1382	388189	AA	TT	TT	INTERGENIC			
SNP_95074_A_397082	NW_004516601.1	scaffold1382	397082	CC	AA	AA	URR		101511645	Unknown function
SNP_95075_A_397390	NW_004516601.1	scaffold1382	397390	TT	CC	CC	URR		101511645	Unknown function
SNP_95076_A_397395	NW_004516601.1	scaffold1382	397395	TT	GG	GG	URR		101511645	Unknown function
SNP_95077_A_397478	NW_004516601.1	scaffold1382	397478	AA	CC	CC	URR		101511645	Unknown function
SNP_95078_A_397479	NW_004516601.1	scaffold1382	397479	TT	CC	CC	URR		101511645	Unknown function
SNP_95079_A_424339	NW_004516601.1	scaffold1382	424339	CC	TT	TT	INTERGENIC			
SNP_95080_A_424348	NW_004516601.1	scaffold1382	424348	AA	GG	GG	INTERGENIC			
SNP_95081_A_428895	NW_004516601.1	scaffold1382	428895	TT	GG	GG	INTERGENIC			
SNP_95082_A_433800	NW_004516601.1	scaffold1382	433800	TT	CC	CC	INTERGENIC			
SNP_95083_A_449009	NW_004516601.1	scaffold1382	449009	TT	CC	CC	INTERGENIC			
SNP_95084_A_449413	NW_004516601.1	scaffold1382	449413	TT	AA	AA	INTERGENIC			
SNP_95085_A_449426	NW_004516601.1	scaffold1382	449426	AA	TT	TT	INTERGENIC			
SNP_95086_A_457020	NW_004516601.1	scaffold1382	457020	TT	CC	CC	INTERGENIC			
SNP_95087_A_457133	NW_004516601.1	scaffold1382	457133	GG	AA	AA	INTERGENIC			
SNP_95088_A_470706	NW_004516601.1	scaffold1382	470706	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95089_A_479167	NW_004516601.1	scaffold1382	479167	TT	AA	AA	INTERGENIC			
SNP_95090_A_479171	NW_004516601.1	scaffold1382	479171	CC	AA	AA	INTERGENIC			
SNP_95091_A_492242	NW_004516601.1	scaffold1382	492242	GG	AA	AA	INTERGENIC			
SNP_95092_A_492258	NW_004516601.1	scaffold1382	492258	GG	TT	TT	INTERGENIC			
SNP_95093_A_526553	NW_004516601.1	scaffold1382	526553	TT	GG	GG	INTERGENIC			
SNP_95094_A_526610	NW_004516601.1	scaffold1382	526610	GG	TT	TT	INTERGENIC			
SNP_95095_A_526614	NW_004516601.1	scaffold1382	526614	TT	GG	GG	INTERGENIC			
SNP_95096_A_526616	NW_004516601.1	scaffold1382	526616	AA	TT	TT	INTERGENIC			
SNP_95097_A_526617	NW_004516601.1	scaffold1382	526617	TT	CC	CC	INTERGENIC			
SNP_95098_A_536212	NW_004516601.1	scaffold1382	536212	GG	CC	CC	INTERGENIC			
SNP_95099_A_536398	NW_004516601.1	scaffold1382	536398	TT	CC	CC	INTERGENIC			
SNP_95100_A_536400	NW_004516601.1	scaffold1382	536400	TT	AA	AA	INTERGENIC			
SNP_95101_A_536640	NW_004516601.1	scaffold1382	536640	CC	TT	TT	INTERGENIC			
SNP_95102_A_536742	NW_004516601.1	scaffold1382	536742	AA	TT	TT	INTERGENIC			
SNP_95103_A_536761	NW_004516601.1	scaffold1382	536761	TT	GG	GG	INTERGENIC			
SNP_95104_A_536769	NW_004516601.1	scaffold1382	536769	GG	CC	CC	INTERGENIC			
SNP_95105_A_536839	NW_004516601.1	scaffold1382	536839	AA	GG	GG	INTERGENIC			
SNP_95106_A_536952	NW_004516601.1	scaffold1382	536952	CC	GG	GG	INTERGENIC			
SNP_95107_A_536961	NW_004516601.1	scaffold1382	536961	TT	GG	GG	INTERGENIC			
SNP_95108_A_537025	NW_004516601.1	scaffold1382	537025	CC	AA	AA	INTERGENIC			
SNP_95109_A_537046	NW_004516601.1	scaffold1382	537046	AA	TT	TT	INTERGENIC			
SNP_95110_A_537062	NW_004516601.1	scaffold1382	537062	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95111_A_537141	NW_004516601.1	scaffold1382	537141	GG	TT	TT	INTERGENIC			
SNP_95112_A_537159	NW_004516601.1	scaffold1382	537159	AA	TT	TT	INTERGENIC			
SNP_95113_A_7440	NW_004516603.1	scaffold1386	7440	CC	TT	TT	INTERGENIC			
SNP_95114_A_7500	NW_004516603.1	scaffold1386	7500	CC	AA	AA	INTERGENIC			
SNP_95117_A_13303	NW_004516603.1	scaffold1386	13303	CC	TT	TT	INTERGENIC			
SNP_95118_A_13392	NW_004516603.1	scaffold1386	13392	AA	GG	GG	INTERGENIC			
SNP_95119_A_13516	NW_004516603.1	scaffold1386	13516	GG	TT	TT	INTERGENIC			
SNP_95120_A_13590	NW_004516603.1	scaffold1386	13590	GG	AA	AA	INTERGENIC			
SNP_95121_A_13604	NW_004516603.1	scaffold1386	13604	CC	TT	TT	INTERGENIC			
SNP_95123_A_13659	NW_004516603.1	scaffold1386	13659	TT	CC	CC	INTERGENIC			
SNP_95124_A_13671	NW_004516603.1	scaffold1386	13671	GG	AA	AA	INTERGENIC			
SNP_95125_A_13699	NW_004516603.1	scaffold1386	13699	GG	AA	AA	INTERGENIC			
SNP_95126_A_13707	NW_004516603.1	scaffold1386	13707	AA	TT	TT	INTERGENIC			
SNP_95127_A_13710	NW_004516603.1	scaffold1386	13710	TT	AA	AA	INTERGENIC			
SNP_95128_A_22329	NW_004516603.1	scaffold1386	22329	GG	CC	CC	INTERGENIC			
SNP_95129_A_22356	NW_004516603.1	scaffold1386	22356	CC	TT	TT	INTERGENIC			
SNP_95130_A_38461	NW_004516603.1	scaffold1386	38461	CC	GG	GG	INTERGENIC			
SNP_95131_A_38507	NW_004516603.1	scaffold1386	38507	AA	GG	GG	INTERGENIC			
SNP_95132_A_38540	NW_004516603.1	scaffold1386	38540	AA	GG	GG	INTERGENIC			
SNP_95134_A_10301	NW_004516606.1	scaffold1390	10301	GG	AA	AA	INTERGENIC			
SNP_95135_A_37624	NW_004516606.1	scaffold1390	37624	TT	CC	CC	INTERGENIC			
SNP_95136_A_69230	NW_004516606.1	scaffold1390	69230	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95137_A_93444	NW_004516606.1	scaffold1390	93444	TT	CC	CC	INTERGENIC			
SNP_95138_A_108882	NW_004516606.1	scaffold1390	108882	GG	AA	AA	INTERGENIC			
SNP_95139_A_7890	NW_004516609.1	scaffold1394	7890	CC	TT	TT	INTERGENIC			
SNP_95140_A_7905	NW_004516609.1	scaffold1394	7905	AA	GG	GG	INTERGENIC			
SNP_95141_A_8515	NW_004516609.1	scaffold1394	8515	AA	CC	CC	INTERGENIC			
SNP_95142_A_12007	NW_004516609.1	scaffold1394	12007	TT	CC	CC	INTERGENIC			
SNP_95143_A_12130	NW_004516609.1	scaffold1394	12130	CC	TT	TT	INTERGENIC			
SNP_95144_A_12219	NW_004516609.1	scaffold1394	12219	GG	AA	AA	INTERGENIC			
SNP_95145_A_12223	NW_004516609.1	scaffold1394	12223	CC	AA	AA	INTERGENIC			
SNP_95146_A_12262	NW_004516609.1	scaffold1394	12262	AA	GG	GG	INTERGENIC			
SNP_95147_A_12374	NW_004516609.1	scaffold1394	12374	AA	GG	GG	INTERGENIC			
SNP_95148_A_12415	NW_004516609.1	scaffold1394	12415	AA	TT	TT	INTERGENIC			
SNP_95149_A_12440	NW_004516609.1	scaffold1394	12440	TT	CC	CC	INTERGENIC			
SNP_95150_A_12497	NW_004516609.1	scaffold1394	12497	GG	TT	TT	INTERGENIC			
SNP_95151_A_25557	NW_004516609.1	scaffold1394	25557	GG	AA	AA	INTERGENIC			
SNP_95152_A_25567	NW_004516609.1	scaffold1394	25567	GG	AA	AA	INTERGENIC			
SNP_95153_A_25622	NW_004516609.1	scaffold1394	25622	AA	GG	GG	INTERGENIC			
SNP_95154_A_27158	NW_004516609.1	scaffold1394	27158	AA	TT	TT	INTERGENIC			
SNP_95155_A_1504	NW_004516612.1	scaffold1399	1504	CC	TT	TT	INTERGENIC			
SNP_95156_A_5718	NW_004516612.1	scaffold1399	5718	AA	GG	GG	INTERGENIC			
SNP_95157_A_5781	NW_004516612.1	scaffold1399	5781	TT	CC	CC	INTERGENIC			
SNP_95158_A_5853	NW_004516612.1	scaffold1399	5853	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95159_A_5979	NW_004516612.1	scaffold1399	5979	CC	TT	TT	INTERGENIC		
SNP_95160_A_6020	NW_004516612.1	scaffold1399	6020	AA	TT	TT	INTERGENIC		
SNP_95161_A_6047	NW_004516612.1	scaffold1399	6047	TT	GG	GG	INTERGENIC		
SNP_95162_A_18964	NW_004516612.1	scaffold1399	18964	AA	GG	GG	INTERGENIC		
SNP_95163_A_19032	NW_004516612.1	scaffold1399	19032	CC	TT	TT	INTERGENIC		
SNP_95164_A_19377	NW_004516612.1	scaffold1399	19377	CC	AA	AA	INTERGENIC		
SNP_95166_A_42143	NW_004516612.1	scaffold1399	42143	CC	AA	AA	INTERGENIC		
SNP_95167_A_2674	NW_004516614.1	scaffold1401	2674	TT	GG	GG	INTRON	101513596	pentatricopeptide repeat-containing protein mitochondrial-like At1g62670,
SNP_95168_A_2901	NW_004516614.1	scaffold1401	2901	GG	CC	CC	INTRON	101513596	pentatricopeptide repeat-containing protein mitochondrial-like At1g62670,
SNP_95169_A_2904	NW_004516614.1	scaffold1401	2904	TT	AA	AA	INTRON	101513596	pentatricopeptide repeat-containing protein mitochondrial-like At1g62670,
SNP_95170_A_2992	NW_004516614.1	scaffold1401	2992	CC	TT	TT	INTRON	101513596	pentatricopeptide repeat-containing protein mitochondrial-like At1g62670,
SNP_95171_A_3005	NW_004516614.1	scaffold1401	3005	GG	AA	AA	INTRON	101513596	pentatricopeptide repeat-containing protein mitochondrial-like At1g62670,
SNP_95172_A_25673	NW_004516614.1	scaffold1401	25673	TT	CC	CC	INTRON	101514450	cucumis-in-like
SNP_95174_A_67483	NW_004516614.1	scaffold1401	67483	CC	GG	GG	DRR	101514254	Unknown function
SNP_95175_A_67563	NW_004516614.1	scaffold1401	67563	TT	AA	AA	DRR	101514254	Unknown function
SNP_95176_A_70853	NW_004516614.1	scaffold1401	70853	TT	CC	CC	INTERGENIC		
SNP_95177_A_70952	NW_004516614.1	scaffold1401	70952	TT	CC	CC	INTERGENIC		
SNP_95178_A_71054	NW_004516614.1	scaffold1401	71054	TT	CC	CC	INTERGENIC		
SNP_95179_A_71066	NW_004516614.1	scaffold1401	71066	TT	CC	CC	INTERGENIC		
SNP_95180_A_71080	NW_004516614.1	scaffold1401	71080	AA	TT	TT	INTERGENIC		
SNP_95181_A_71193	NW_004516614.1	scaffold1401	71193	TT	CC	CC	INTERGENIC		
SNP_95182_A_71374	NW_004516614.1	scaffold1401	71374	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95183_A_71485	NW_004516614.1	scaffold1401	71485	CC	TT	TT	INTERGENIC			
SNP_95184_A_71613	NW_004516614.1	scaffold1401	71613	AA	GG	GG	INTERGENIC			
SNP_95185_A_840	NW_004516615.1	scaffold1403	840	GG	TT	TT	INTERGENIC			
SNP_95186_A_862	NW_004516615.1	scaffold1403	862	CC	TT	TT	INTERGENIC			
SNP_95187_A_889	NW_004516615.1	scaffold1403	889	TT	AA	AA	INTERGENIC			
SNP_95188_A_961	NW_004516615.1	scaffold1403	961	AA	GG	GG	INTERGENIC			
SNP_95189_A_4198	NW_004516616.1	scaffold1404	4198	CC	TT	TT	INTERGENIC			
SNP_95190_A_4199	NW_004516616.1	scaffold1404	4199	AA	GG	GG	INTERGENIC			
SNP_95191_A_4214	NW_004516616.1	scaffold1404	4214	GG	AA	AA	INTERGENIC			
SNP_95192_A_2965	NW_004516617.1	scaffold1405	2965	CC	AA	AA	INTERGENIC			
SNP_95193_A_4454	NW_004516617.1	scaffold1405	4454	GG	CC	CC	INTERGENIC			
SNP_95194_A_624	NW_004516619.1	scaffold1408	624	AA	GG	GG	INTERGENIC			
SNP_95195_A_2211	NW_004516619.1	scaffold1408	2211	TT	CC	CC	INTERGENIC			
SNP_95196_A_2528	NW_004516619.1	scaffold1408	2528	CC	AA	AA	INTERGENIC			
SNP_95197_A_2699	NW_004516619.1	scaffold1408	2699	AA	GG	GG	INTERGENIC			
SNP_95198_A_2903	NW_004516619.1	scaffold1408	2903	GG	CC	CC	INTERGENIC			
SNP_95199_A_4424	NW_004516619.1	scaffold1408	4424	GG	TT	TT	INTERGENIC			
SNP_95200_A_4692	NW_004516619.1	scaffold1408	4692	GG	TT	TT	INTERGENIC			
SNP_95201_A_4717	NW_004516619.1	scaffold1408	4717	TT	CC	CC	INTERGENIC			
SNP_95202_A_4933	NW_004516619.1	scaffold1408	4933	AA	GG	GG	INTERGENIC			
SNP_95203_A_5273	NW_004516619.1	scaffold1408	5273	AA	GG	GG	INTERGENIC			
SNP_95204_A_5330	NW_004516619.1	scaffold1408	5330	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95205_A_5484	NW_004516619.1	scaffold1408	5484	AA	TT	TT	INTERGENIC			
SNP_95206_A_5505	NW_004516619.1	scaffold1408	5505	TT	CC	CC	INTERGENIC			
SNP_95207_A_5949	NW_004516619.1	scaffold1408	5949	GG	TT	TT	INTERGENIC			
SNP_95209_A_7919	NW_004516619.1	scaffold1408	7919	TT	AA	AA	INTERGENIC			
SNP_95210_A_9235	NW_004516619.1	scaffold1408	9235	TT	CC	CC	INTERGENIC			
SNP_95211_A_9407	NW_004516619.1	scaffold1408	9407	AA	CC	CC	INTERGENIC			
SNP_95212_A_9633	NW_004516619.1	scaffold1408	9633	CC	TT	TT	INTERGENIC			
SNP_95213_A_9833	NW_004516619.1	scaffold1408	9833	GG	CC	CC	INTERGENIC			
SNP_95214_A_10022	NW_004516619.1	scaffold1408	10022	AA	TT	TT	INTERGENIC			
SNP_95215_A_10031	NW_004516619.1	scaffold1408	10031	GG	CC	CC	INTERGENIC			
SNP_95216_A_10044	NW_004516619.1	scaffold1408	10044	TT	CC	CC	INTERGENIC			
SNP_95217_A_10131	NW_004516619.1	scaffold1408	10131	AA	GG	GG	INTERGENIC			
SNP_95218_A_10449	NW_004516619.1	scaffold1408	10449	TT	AA	AA	INTERGENIC			
SNP_95219_A_10511	NW_004516619.1	scaffold1408	10511	GG	AA	AA	INTERGENIC			
SNP_95220_A_10610	NW_004516619.1	scaffold1408	10610	GG	AA	AA	INTERGENIC			
SNP_95221_A_10668	NW_004516619.1	scaffold1408	10668	TT	GG	GG	INTERGENIC			
SNP_95222_A_10897	NW_004516619.1	scaffold1408	10897	TT	GG	GG	INTERGENIC			
SNP_95223_A_10937	NW_004516619.1	scaffold1408	10937	GG	TT	TT	INTERGENIC			
SNP_95224_A_11039	NW_004516619.1	scaffold1408	11039	CC	TT	TT	INTERGENIC			
SNP_95225_A_11041	NW_004516619.1	scaffold1408	11041	TT	GG	GG	INTERGENIC			
SNP_95226_A_12084	NW_004516619.1	scaffold1408	12084	CC	TT	TT	INTERGENIC			
SNP_95227_A_12140	NW_004516619.1	scaffold1408	12140	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95228_A_12292	NW_004516619.1	scaffold1408	12292	CC	GG	TT	INTERGENIC			
SNP_95229_A_18760	NW_004516619.1	scaffold1408	18760	TT	AA	AA	INTERGENIC			
SNP_95230_A_18836	NW_004516619.1	scaffold1408	18836	TT	AA	AA	INTERGENIC			
SNP_95231_A_19137	NW_004516619.1	scaffold1408	19137	GG	TT	TT	INTERGENIC			
SNP_95232_A_19138	NW_004516619.1	scaffold1408	19138	TT	AA	AA	INTERGENIC			
SNP_95233_A_20442	NW_004516619.1	scaffold1408	20442	TT	AA	AA	INTERGENIC			
SNP_95235_A_23083	NW_004516619.1	scaffold1408	23083	TT	GG	GG	INTERGENIC			
SNP_95236_A_23814	NW_004516619.1	scaffold1408	23814	GG	AA	AA	INTERGENIC			
SNP_95237_A_23819	NW_004516619.1	scaffold1408	23819	CC	TT	TT	INTERGENIC			
SNP_95238_A_23822	NW_004516619.1	scaffold1408	23822	TT	CC	CC	INTERGENIC			
SNP_95239_A_23986	NW_004516619.1	scaffold1408	23986	GG	TT	TT	INTERGENIC			
SNP_95240_A_24607	NW_004516619.1	scaffold1408	24607	CC	TT	TT	INTERGENIC			
SNP_95241_A_24672	NW_004516619.1	scaffold1408	24672	GG	AA	AA	INTERGENIC			
SNP_95243_A_25071	NW_004516619.1	scaffold1408	25071	GG	TT	TT	INTERGENIC			
SNP_95244_A_25112	NW_004516619.1	scaffold1408	25112	AA	GG	GG	INTERGENIC			
SNP_95245_A_25228	NW_004516619.1	scaffold1408	25228	CC	GG	GG	INTERGENIC			
SNP_95246_A_25233	NW_004516619.1	scaffold1408	25233	AA	CC	CC	INTERGENIC			
SNP_95247_A_25962	NW_004516619.1	scaffold1408	25962	CC	TT	TT	INTERGENIC			
SNP_95248_A_26068	NW_004516619.1	scaffold1408	26068	AA	GG	GG	INTERGENIC			
SNP_95249_A_26092	NW_004516619.1	scaffold1408	26092	CC	TT	TT	INTERGENIC			
SNP_95250_A_26220	NW_004516619.1	scaffold1408	26220	CC	TT	TT	INTERGENIC			
SNP_95251_A_26296	NW_004516619.1	scaffold1408	26296	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95252_A_26338	NW_004516619.1	scaffold1408	26338	CC	GG	GG	INTERGENIC			
SNP_95253_A_26395	NW_004516619.1	scaffold1408	26395	TT	AA	AA	INTERGENIC			
SNP_95254_A_26413	NW_004516619.1	scaffold1408	26413	AA	TT	TT	INTERGENIC			
SNP_95255_A_26414	NW_004516619.1	scaffold1408	26414	TT	AA	AA	INTERGENIC			
SNP_95256_A_26485	NW_004516619.1	scaffold1408	26485	AA	TT	TT	INTERGENIC			
SNP_95257_A_26534	NW_004516619.1	scaffold1408	26534	TT	CC	CC	INTERGENIC			
SNP_95258_A_26602	NW_004516619.1	scaffold1408	26602	GG	CC	CC	INTERGENIC			
SNP_95259_A_26651	NW_004516619.1	scaffold1408	26651	TT	AA	AA	INTERGENIC			
SNP_95260_A_26751	NW_004516619.1	scaffold1408	26751	AA	CC	CC	INTERGENIC			
SNP_95261_A_26756	NW_004516619.1	scaffold1408	26756	CC	TT	TT	INTERGENIC			
SNP_95262_A_26762	NW_004516619.1	scaffold1408	26762	CC	TT	TT	INTERGENIC			
SNP_95263_A_26768	NW_004516619.1	scaffold1408	26768	GG	TT	TT	INTERGENIC			
SNP_95264_A_26778	NW_004516619.1	scaffold1408	26778	GG	TT	TT	INTERGENIC			
SNP_95266_A_26991	NW_004516619.1	scaffold1408	26991	TT	AA	AA	INTERGENIC			
SNP_95267_A_27035	NW_004516619.1	scaffold1408	27035	GG	AA	AA	INTERGENIC			
SNP_95268_A_27147	NW_004516619.1	scaffold1408	27147	GG	CC	CC	INTERGENIC			
SNP_95269_A_27277	NW_004516619.1	scaffold1408	27277	CC	TT	TT	INTERGENIC			
SNP_95270_A_27349	NW_004516619.1	scaffold1408	27349	GG	TT	TT	INTERGENIC			
SNP_95271_A_27360	NW_004516619.1	scaffold1408	27360	CC	TT	TT	INTERGENIC			
SNP_95272_A_27372	NW_004516619.1	scaffold1408	27372	AA	TT	TT	INTERGENIC			
SNP_95273_A_27451	NW_004516619.1	scaffold1408	27451	GG	CC	CC	INTERGENIC			
SNP_95274_A_27479	NW_004516619.1	scaffold1408	27479	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95275_A_27498	NW_004516619.1	scaffold1408	27498	CC	GG	GG	INTERGENIC			
SNP_95276_A_27523	NW_004516619.1	scaffold1408	27523	AA	GG	GG	INTERGENIC			
SNP_95277_A_27995	NW_004516619.1	scaffold1408	27995	AA	TT	TT	INTERGENIC			
SNP_95278_A_28025	NW_004516619.1	scaffold1408	28025	TT	CC	CC	INTERGENIC			
SNP_95279_A_28029	NW_004516619.1	scaffold1408	28029	CC	TT	TT	INTERGENIC			
SNP_95280_A_28129	NW_004516619.1	scaffold1408	28129	TT	AA	AA	INTERGENIC			
SNP_95281_A_28182	NW_004516619.1	scaffold1408	28182	TT	GG	GG	INTERGENIC			
SNP_95282_A_28329	NW_004516619.1	scaffold1408	28329	GG	CC	CC	INTERGENIC			
SNP_95283_A_29186	NW_004516619.1	scaffold1408	29186	CC	TT	TT	INTERGENIC			
SNP_95284_A_29202	NW_004516619.1	scaffold1408	29202	AA	GG	GG	INTERGENIC			
SNP_95285_A_29283	NW_004516619.1	scaffold1408	29283	AA	TT	TT	INTERGENIC			
SNP_95286_A_29302	NW_004516619.1	scaffold1408	29302	TT	GG	GG	INTERGENIC			
SNP_95287_A_29303	NW_004516619.1	scaffold1408	29303	AA	TT	TT	INTERGENIC			
SNP_95288_A_29328	NW_004516619.1	scaffold1408	29328	CC	TT	TT	INTERGENIC			
SNP_95289_A_29389	NW_004516619.1	scaffold1408	29389	AA	GG	GG	INTERGENIC			
SNP_95290_A_29441	NW_004516619.1	scaffold1408	29441	AA	GG	GG	INTERGENIC			
SNP_95291_A_34721	NW_004516619.1	scaffold1408	34721	AA	CC	CC	INTERGENIC			
SNP_95292_A_34804	NW_004516619.1	scaffold1408	34804	AA	GG	GG	INTERGENIC			
SNP_95293_A_34851	NW_004516619.1	scaffold1408	34851	GG	AA	AA	INTERGENIC			
SNP_95294_A_34963	NW_004516619.1	scaffold1408	34963	GG	AA	AA	INTERGENIC			
SNP_95295_A_34994	NW_004516619.1	scaffold1408	34994	TT	CC	CC	INTERGENIC			
SNP_95296_A_35214	NW_004516619.1	scaffold1408	35214	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95297_A_35313	NW_004516619.1	scaffold1408	35313	TT	AA	AA	INTERGENIC			
SNP_95298_A_37011	NW_004516619.1	scaffold1408	37011	TT	GG	GG	INTERGENIC			
SNP_95299_A_37063	NW_004516619.1	scaffold1408	37063	GG	AA	AA	INTERGENIC			
SNP_95300_A_37235	NW_004516619.1	scaffold1408	37235	GG	AA	AA	INTERGENIC			
SNP_95301_A_37248	NW_004516619.1	scaffold1408	37248	AA	TT	TT	INTERGENIC			
SNP_95302_A_37249	NW_004516619.1	scaffold1408	37249	GG	AA	AA	INTERGENIC			
SNP_95303_A_37265	NW_004516619.1	scaffold1408	37265	GG	CC	CC	INTERGENIC			
SNP_95304_A_37326	NW_004516619.1	scaffold1408	37326	TT	CC	CC	INTERGENIC			
SNP_95305_A_37389	NW_004516619.1	scaffold1408	37389	AA	GG	GG	INTERGENIC			
SNP_95306_A_39530	NW_004516619.1	scaffold1408	39530	TT	GG	GG	INTERGENIC			
SNP_95307_A_53097	NW_004516619.1	scaffold1408	53097	AA	GG	GG	INTERGENIC			
SNP_95308_A_53100	NW_004516619.1	scaffold1408	53100	CC	AA	AA	INTERGENIC			
SNP_95309_A_53104	NW_004516619.1	scaffold1408	53104	CC	TT	TT	INTERGENIC			
SNP_95310_A_53106	NW_004516619.1	scaffold1408	53106	TT	AA	AA	INTERGENIC			
SNP_95311_A_53132	NW_004516619.1	scaffold1408	53132	AA	TT	TT	INTERGENIC			
SNP_95312_A_53145	NW_004516619.1	scaffold1408	53145	GG	AA	AA	INTERGENIC			
SNP_95313_A_53150	NW_004516619.1	scaffold1408	53150	TT	CC	CC	INTERGENIC			
SNP_95314_A_53298	NW_004516619.1	scaffold1408	53298	CC	TT	TT	INTERGENIC			
SNP_95315_A_53596	NW_004516619.1	scaffold1408	53596	TT	AA	AA	INTERGENIC			
SNP_95316_A_54611	NW_004516619.1	scaffold1408	54611	AA	CC	CC	INTERGENIC			
SNP_95317_A_54797	NW_004516619.1	scaffold1408	54797	AA	GG	GG	INTERGENIC			
SNP_95318_A_54907	NW_004516619.1	scaffold1408	54907	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95319_A_55167	NW_004516619.1	scaffold1408	55167	AA	TT	TT	INTERGENIC			
SNP_95320_A_55219	NW_004516619.1	scaffold1408	55219	CC	TT	TT	INTERGENIC			
SNP_95321_A_55670	NW_004516619.1	scaffold1408	55670	AA	GG	GG	INTERGENIC			
SNP_95322_A_55793	NW_004516619.1	scaffold1408	55793	TT	CC	CC	INTERGENIC			
SNP_95324_A_56180	NW_004516619.1	scaffold1408	56180	AA	CC	CC	INTERGENIC			
SNP_95325_A_63231	NW_004516619.1	scaffold1408	63231	AA	GG	GG	INTERGENIC			
SNP_95326_A_66530	NW_004516619.1	scaffold1408	66530	TT	GG	GG	INTERGENIC			
SNP_95327_A_66596	NW_004516619.1	scaffold1408	66596	TT	CC	CC	INTERGENIC			
SNP_95328_A_66725	NW_004516619.1	scaffold1408	66725	TT	AA	AA	INTERGENIC			
SNP_95329_A_68209	NW_004516619.1	scaffold1408	68209	CC	AA	AA	INTERGENIC			
SNP_95330_A_68240	NW_004516619.1	scaffold1408	68240	CC	GG	GG	INTERGENIC			
SNP_95331_A_68250	NW_004516619.1	scaffold1408	68250	CC	GG	GG	INTERGENIC			
SNP_95332_A_68267	NW_004516619.1	scaffold1408	68267	TT	AA	AA	INTERGENIC			
SNP_95333_A_68306	NW_004516619.1	scaffold1408	68306	TT	GG	GG	INTERGENIC			
SNP_95334_A_68335	NW_004516619.1	scaffold1408	68335	AA	GG	GG	INTERGENIC			
SNP_95335_A_68490	NW_004516619.1	scaffold1408	68490	AA	GG	GG	INTERGENIC			
SNP_95336_A_68508	NW_004516619.1	scaffold1408	68508	CC	TT	TT	INTERGENIC			
SNP_95337_A_69184	NW_004516619.1	scaffold1408	69184	AA	GG	GG	INTERGENIC			
SNP_95338_A_69220	NW_004516619.1	scaffold1408	69220	TT	GG	GG	INTERGENIC			
SNP_95339_A_69225	NW_004516619.1	scaffold1408	69225	GG	CC	CC	INTERGENIC			
SNP_95340_A_69770	NW_004516619.1	scaffold1408	69770	GG	TT	TT	INTERGENIC			
SNP_95341_A_69816	NW_004516619.1	scaffold1408	69816	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95342_A_69863	NW_004516619.1	scaffold1408	69863	CC	TT	TT	INTERGENIC			
SNP_95343_A_70058	NW_004516619.1	scaffold1408	70058	TT	CC	CC	INTERGENIC			
SNP_95344_A_70141	NW_004516619.1	scaffold1408	70141	GG	AA	AA	INTERGENIC			
SNP_95345_A_70248	NW_004516619.1	scaffold1408	70248	TT	CC	CC	INTERGENIC			
SNP_95346_A_71683	NW_004516619.1	scaffold1408	71683	TT	AA	AA	INTERGENIC			
SNP_95347_A_71985	NW_004516619.1	scaffold1408	71985	GG	AA	AA	INTERGENIC			
SNP_95348_A_72045	NW_004516619.1	scaffold1408	72045	GG	TT	TT	INTERGENIC			
SNP_95349_A_72312	NW_004516619.1	scaffold1408	72312	TT	CC	CC	INTERGENIC			
SNP_95350_A_72491	NW_004516619.1	scaffold1408	72491	CC	GG	GG	INTERGENIC			
SNP_95351_A_72621	NW_004516619.1	scaffold1408	72621	GG	TT	TT	INTERGENIC			
SNP_95352_A_73240	NW_004516619.1	scaffold1408	73240	AA	TT	TT	INTERGENIC			
SNP_95353_A_74896	NW_004516619.1	scaffold1408	74896	GG	AA	AA	INTERGENIC			
SNP_95354_A_75535	NW_004516619.1	scaffold1408	75535	TT	AA	AA	INTERGENIC			
SNP_95355_A_75536	NW_004516619.1	scaffold1408	75536	CC	TT	TT	INTERGENIC			
SNP_95356_A_76364	NW_004516619.1	scaffold1408	76364	CC	TT	TT	INTERGENIC			
SNP_95357_A_77899	NW_004516619.1	scaffold1408	77899	TT	CC	CC	INTERGENIC			
SNP_95358_A_78006	NW_004516619.1	scaffold1408	78006	TT	CC	CC	INTERGENIC			
SNP_95359_A_78161	NW_004516619.1	scaffold1408	78161	CC	AA	AA	INTERGENIC			
SNP_95360_A_80229	NW_004516619.1	scaffold1408	80229	TT	AA	AA	INTERGENIC			
SNP_95361_A_80470	NW_004516619.1	scaffold1408	80470	AA	TT	TT	INTERGENIC			
SNP_95362_A_80619	NW_004516619.1	scaffold1408	80619	AA	TT	TT	INTERGENIC			
SNP_95363_A_80953	NW_004516619.1	scaffold1408	80953	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95364_A_81246	NW_004516619.1	scaffold1408	81246	GG	AA	AA	INTERGENIC			
SNP_95365_A_81378	NW_004516619.1	scaffold1408	81378	TT	CC	CC	INTERGENIC			
SNP_95366_A_81819	NW_004516619.1	scaffold1408	81819	CC	TT	TT	INTERGENIC			
SNP_95367_A_82001	NW_004516619.1	scaffold1408	82001	TT	AA	AA	INTERGENIC			
SNP_95368_A_82064	NW_004516619.1	scaffold1408	82064	GG	TT	TT	INTERGENIC			
SNP_95369_A_82136	NW_004516619.1	scaffold1408	82136	CC	TT	TT	INTERGENIC			
SNP_95370_A_82714	NW_004516619.1	scaffold1408	82714	GG	CC	CC	INTERGENIC			
SNP_95371_A_82828	NW_004516619.1	scaffold1408	82828	GG	AA	AA	INTERGENIC			
SNP_95372_A_82922	NW_004516619.1	scaffold1408	82922	AA	TT	TT	INTERGENIC			
SNP_95373_A_82974	NW_004516619.1	scaffold1408	82974	CC	GG	GG	INTERGENIC			
SNP_95374_A_83047	NW_004516619.1	scaffold1408	83047	GG	TT	TT	INTERGENIC			
SNP_95375_A_83108	NW_004516619.1	scaffold1408	83108	TT	CC	CC	INTERGENIC			
SNP_95376_A_83610	NW_004516619.1	scaffold1408	83610	CC	TT	TT	INTERGENIC			
SNP_95377_A_83784	NW_004516619.1	scaffold1408	83784	GG	TT	TT	INTERGENIC			
SNP_95378_A_84068	NW_004516619.1	scaffold1408	84068	TT	GG	GG	INTERGENIC			
SNP_95379_A_84605	NW_004516619.1	scaffold1408	84605	TT	GG	GG	INTERGENIC			
SNP_95380_A_84900	NW_004516619.1	scaffold1408	84900	TT	CC	CC	INTERGENIC			
SNP_95381_A_84941	NW_004516619.1	scaffold1408	84941	CC	TT	TT	INTERGENIC			
SNP_95383_A_85772	NW_004516619.1	scaffold1408	85772	AA	CC	CC	INTERGENIC			
SNP_95384_A_85906	NW_004516619.1	scaffold1408	85906	AA	TT	TT	INTERGENIC			
SNP_95385_A_85912	NW_004516619.1	scaffold1408	85912	TT	CC	CC	INTERGENIC			
SNP_95386_A_85918	NW_004516619.1	scaffold1408	85918	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95387_A_86640	NW_004516619.1	scaffold1408	86640	AA	TT	TT	INTERGENIC			
SNP_95388_A_87110	NW_004516619.1	scaffold1408	87110	AA	GG	GG	INTERGENIC			
SNP_95389_A_87138	NW_004516619.1	scaffold1408	87138	AA	CC	CC	INTERGENIC			
SNP_95390_A_91980	NW_004516619.1	scaffold1408	91980	AA	TT	TT	INTERGENIC			
SNP_95391_A_92249	NW_004516619.1	scaffold1408	92249	AA	TT	TT	INTERGENIC			
SNP_95393_A_92365	NW_004516619.1	scaffold1408	92365	TT	CC	CC	INTERGENIC			
SNP_95394_A_92446	NW_004516619.1	scaffold1408	92446	GG	AA	AA	INTERGENIC			
SNP_95395_A_92451	NW_004516619.1	scaffold1408	92451	CC	GG	GG	INTERGENIC			
SNP_95396_A_92486	NW_004516619.1	scaffold1408	92486	AA	GG	GG	INTERGENIC			
SNP_95397_A_92545	NW_004516619.1	scaffold1408	92545	AA	TT	TT	INTERGENIC			
SNP_95398_A_92582	NW_004516619.1	scaffold1408	92582	CC	TT	TT	INTERGENIC			
SNP_95399_A_92592	NW_004516619.1	scaffold1408	92592	TT	GG	GG	INTERGENIC			
SNP_95400_A_92620	NW_004516619.1	scaffold1408	92620	TT	GG	GG	INTERGENIC			
SNP_95401_A_92667	NW_004516619.1	scaffold1408	92667	GG	AA	AA	INTERGENIC			
SNP_95402_A_92736	NW_004516619.1	scaffold1408	92736	TT	AA	AA	INTERGENIC			
SNP_95403_A_92870	NW_004516619.1	scaffold1408	92870	TT	GG	GG	INTERGENIC			
SNP_95405_A_96197	NW_004516619.1	scaffold1408	96197	CC	TT	TT	INTERGENIC			
SNP_95406_A_96269	NW_004516619.1	scaffold1408	96269	TT	AA	AA	INTERGENIC			
SNP_95407_A_96290	NW_004516619.1	scaffold1408	96290	GG	AA	AA	INTERGENIC			
SNP_95408_A_96558	NW_004516619.1	scaffold1408	96558	TT	AA	AA	INTERGENIC			
SNP_95409_A_96936	NW_004516619.1	scaffold1408	96936	TT	GG	GG	INTERGENIC			
SNP_95410_A_101536	NW_004516619.1	scaffold1408	101536	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95411_A_101665	NW_004516619.1	scaffold1408	101665	TT	AA	AA	INTERGENIC			
SNP_95412_A_101954	NW_004516619.1	scaffold1408	101954	TT	AA	AA	INTERGENIC			
SNP_95413_A_102065	NW_004516619.1	scaffold1408	102065	TT	AA	AA	INTERGENIC			
SNP_95414_A_102289	NW_004516619.1	scaffold1408	102289	AA	CC	CC	INTERGENIC			
SNP_95415_A_102347	NW_004516619.1	scaffold1408	102347	TT	CC	CC	INTERGENIC			
SNP_95416_A_102376	NW_004516619.1	scaffold1408	102376	AA	CC	CC	INTERGENIC			
SNP_95417_A_103316	NW_004516619.1	scaffold1408	103316	AA	CC	CC	INTERGENIC			
SNP_95418_A_103333	NW_004516619.1	scaffold1408	103333	TT	GG	GG	INTERGENIC			
SNP_95419_A_103646	NW_004516619.1	scaffold1408	103646	TT	CC	CC	INTERGENIC			
SNP_95420_A_104372	NW_004516619.1	scaffold1408	104372	GG	AA	AA	INTERGENIC			
SNP_95421_A_104452	NW_004516619.1	scaffold1408	104452	AA	GG	GG	INTERGENIC			
SNP_95422_A_104667	NW_004516619.1	scaffold1408	104667	AA	TT	TT	INTERGENIC			
SNP_95423_A_105712	NW_004516619.1	scaffold1408	105712	GG	TT	TT	INTERGENIC			
SNP_95425_A_108639	NW_004516619.1	scaffold1408	108639	GG	TT	TT	INTERGENIC			
SNP_95426_A_108640	NW_004516619.1	scaffold1408	108640	TT	GG	GG	INTERGENIC			
SNP_95427_A_5728	NW_004516620.1	scaffold1409	5728	CC	TT	TT	INTERGENIC			
SNP_95428_A_5761	NW_004516620.1	scaffold1409	5761	AA	CC	CC	INTERGENIC			
SNP_95429_A_6094	NW_004516620.1	scaffold1409	6094	TT	AA	AA	INTERGENIC			
SNP_95430_A_8982	NW_004516620.1	scaffold1409	8982	TT	CC	CC	INTERGENIC			
SNP_95431_A_9152	NW_004516620.1	scaffold1409	9152	CC	TT	TT	INTERGENIC			
SNP_95432_A_9213	NW_004516620.1	scaffold1409	9213	CC	TT	TT	INTERGENIC			
SNP_95434_A_9257	NW_004516620.1	scaffold1409	9257	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95435_A_9452	NW_004516620.1	scaffold1409	9452	CC	TT	TT	INTERGENIC			
SNP_95436_A_9510	NW_004516620.1	scaffold1409	9510	TT	CC	CC	INTERGENIC			
SNP_95437_A_9568	NW_004516620.1	scaffold1409	9568	CC	TT	TT	INTERGENIC			
SNP_95438_A_9591	NW_004516620.1	scaffold1409	9591	AA	TT	TT	INTERGENIC			
SNP_95439_A_9910	NW_004516620.1	scaffold1409	9910	AA	CC	CC	INTERGENIC			
SNP_95440_A_9978	NW_004516620.1	scaffold1409	9978	TT	CC	CC	INTERGENIC			
SNP_95441_A_9982	NW_004516620.1	scaffold1409	9982	TT	CC	CC	INTERGENIC			
SNP_95442_A_10158	NW_004516620.1	scaffold1409	10158	TT	GG	GG	INTERGENIC			
SNP_95443_A_10237	NW_004516620.1	scaffold1409	10237	AA	GG	GG	INTERGENIC			
SNP_95445_A_12482	NW_004516620.1	scaffold1409	12482	TT	CC	CC	INTERGENIC			
SNP_95446_A_14734	NW_004516620.1	scaffold1409	14734	GG	CC	CC	INTERGENIC			
SNP_95447_A_35683	NW_004516622.1	scaffold1411	35683	AA	GG	GG	INTERGENIC			
SNP_95448_A_35965	NW_004516622.1	scaffold1411	35965	CC	AA	AA	INTERGENIC			
SNP_95449_A_36150	NW_004516622.1	scaffold1411	36150	AA	CC	CC	INTERGENIC			
SNP_95450_A_36153	NW_004516622.1	scaffold1411	36153	GG	AA	AA	INTERGENIC			
SNP_95451_A_39021	NW_004516622.1	scaffold1411	39021	GG	TT	TT	INTERGENIC			
SNP_95452_A_39207	NW_004516622.1	scaffold1411	39207	TT	CC	CC	INTERGENIC			
SNP_95453_A_125347	NW_004516622.1	scaffold1411	125347	GG	TT	TT	INTERGENIC			
SNP_95454_A_135337	NW_004516622.1	scaffold1411	135337	CC	AA	AA	INTERGENIC			
SNP_95455_A_139327	NW_004516622.1	scaffold1411	139327	CC	TT	TT	INTERGENIC			
SNP_95456_A_304	NW_004516623.1	scaffold1412	304	GG	AA	AA	INTERGENIC			
SNP_95457_A_3426	NW_004516623.1	scaffold1412	3426	TT	AA	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95458_A_3460	NW_004516623.1	scaffold1412	3460	GG	AA	AA	INTERGENIC			
SNP_95459_A_3482	NW_004516623.1	scaffold1412	3482	GG	AA	AA	INTERGENIC			
SNP_95460_A_3734	NW_004516623.1	scaffold1412	3734	TT	CC	CC	INTERGENIC			
SNP_95461_A_3748	NW_004516623.1	scaffold1412	3748	TT	GG	GG	INTERGENIC			
SNP_95462_A_3786	NW_004516623.1	scaffold1412	3786	TT	GG	GG	INTERGENIC			
SNP_95463_A_4774	NW_004516623.1	scaffold1412	4774	AA	GG	GG	INTERGENIC			
SNP_95464_A_4786	NW_004516623.1	scaffold1412	4786	AA	GG	GG	INTERGENIC			
SNP_95465_A_17077	NW_004516623.1	scaffold1412	17077	GG	AA	AA	INTERGENIC			
SNP_95466_A_17458	NW_004516623.1	scaffold1412	17458	TT	AA	AA	INTERGENIC			
SNP_95467_A_17595	NW_004516623.1	scaffold1412	17595	CC	TT	TT	INTERGENIC			
SNP_95468_A_447	NW_004516624.1	scaffold1413	447	AA	CC	CC	INTERGENIC			
SNP_95469_A_2038	NW_004516625.1	scaffold1414	2038	TT	GG	GG	INTERGENIC			
SNP_95470_A_2051	NW_004516625.1	scaffold1414	2051	AA	GG	GG	INTERGENIC			
SNP_95471_A_2437	NW_004516625.1	scaffold1414	2437	AA	TT	TT	INTERGENIC			
SNP_95472_A_2521	NW_004516625.1	scaffold1414	2521	AA	TT	TT	INTERGENIC			
SNP_95474_A_20673	NW_004516625.1	scaffold1414	20673	AA	GG	GG	INTERGENIC			
SNP_95475_A_29817	NW_004516625.1	scaffold1414	29817	TT	CC	CC	INTERGENIC			
SNP_95476_A_32255	NW_004516625.1	scaffold1414	32255	TT	CC	CC	INTERGENIC			
SNP_95477_A_32360	NW_004516625.1	scaffold1414	32360	CC	TT	TT	INTERGENIC			
SNP_95478_A_36025	NW_004516625.1	scaffold1414	36025	GG	CC	CC	INTERGENIC			
SNP_95479_A_36140	NW_004516625.1	scaffold1414	36140	TT	CC	CC	INTERGENIC			
SNP_95480_A_36281	NW_004516625.1	scaffold1414	36281	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95481_A_36485	NW_004516625.1	scaffold1414	36485	CC	AA	AA	INTERGENIC		
SNP_95482_A_36500	NW_004516625.1	scaffold1414	36500	TT	AA	AA	INTERGENIC		
SNP_95483_A_36517	NW_004516625.1	scaffold1414	36517	AA	GG	GG	INTERGENIC		
SNP_95484_A_36519	NW_004516625.1	scaffold1414	36519	AA	TT	TT	INTERGENIC		
SNP_95485_A_36520	NW_004516625.1	scaffold1414	36520	AA	GG	GG	INTERGENIC		
SNP_95486_A_38087	NW_004516625.1	scaffold1414	38087	GG	AA	AA	INTERGENIC		
SNP_95487_A_38155	NW_004516625.1	scaffold1414	38155	TT	CC	CC	INTERGENIC		
SNP_95488_A_38194	NW_004516625.1	scaffold1414	38194	GG	AA	AA	INTERGENIC		
SNP_95490_A_40007	NW_004516625.1	scaffold1414	40007	CC	TT	TT	INTERGENIC		
SNP_95491_A_46367	NW_004516625.1	scaffold1414	46367	CC	TT	TT	INTERGENIC		
SNP_95492_A_48610	NW_004516625.1	scaffold1414	48610	GG	TT	TT	INTERGENIC		
SNP_95493_A_48682	NW_004516625.1	scaffold1414	48682	GG	TT	TT	INTERGENIC		
SNP_95494_A_48687	NW_004516625.1	scaffold1414	48687	CC	TT	TT	INTERGENIC		
SNP_95495_A_48864	NW_004516625.1	scaffold1414	48864	TT	CC	CC	INTERGENIC		
SNP_95496_A_55014	NW_004516625.1	scaffold1414	55014	AA	TT	TT	INTERGENIC		
SNP_95497_A_55023	NW_004516625.1	scaffold1414	55023	AA	GG	GG	INTERGENIC		
SNP_95498_A_55033	NW_004516625.1	scaffold1414	55033	TT	CC	CC	INTERGENIC		
SNP_95499_A_55133	NW_004516625.1	scaffold1414	55133	CC	GG	GG	INTERGENIC		
SNP_95500_A_55402	NW_004516625.1	scaffold1414	55402	AA	CC	CC	INTERGENIC		
SNP_95501_A_55434	NW_004516625.1	scaffold1414	55434	AA	GG	GG	INTERGENIC		
SNP_95502_A_56285	NW_004516625.1	scaffold1414	56285	AA	GG	GG	INTERGENIC		
SNP_95503_A_59813	NW_004516625.1	scaffold1414	59813	CC	TT	TT	URR	101489183	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95504_A_59835	NW_004516625.1	scaffold1414	59835	AA	GG	GG	URR	101489183	Unknown function
SNP_95505_A_64718	NW_004516625.1	scaffold1414	64718	AA	CC	CC	INTERGENIC		
SNP_95506_A_71090	NW_004516625.1	scaffold1414	71090	CC	TT	TT	INTERGENIC		
SNP_95507_A_71232	NW_004516625.1	scaffold1414	71232	AA	TT	TT	INTERGENIC		
SNP_95508_A_71247	NW_004516625.1	scaffold1414	71247	TT	CC	CC	INTERGENIC		
SNP_95509_A_71248	NW_004516625.1	scaffold1414	71248	CC	TT	TT	INTERGENIC		
SNP_95510_A_71249	NW_004516625.1	scaffold1414	71249	TT	GG	GG	INTERGENIC		
SNP_95511_A_71272	NW_004516625.1	scaffold1414	71272	CC	TT	TT	INTERGENIC		
SNP_95512_A_71273	NW_004516625.1	scaffold1414	71273	TT	GG	GG	INTERGENIC		
SNP_95514_A_82418	NW_004516625.1	scaffold1414	82418	AA	GG	GG	INTERGENIC		
SNP_95515_A_115012	NW_004516625.1	scaffold1414	115012	TT	CC	CC	INTERGENIC		
SNP_95516_A_115802	NW_004516625.1	scaffold1414	115802	TT	CC	CC	INTERGENIC		
SNP_95517_A_124829	NW_004516625.1	scaffold1414	124829	CC	TT	TT	INTERGENIC		
SNP_95518_A_124832	NW_004516625.1	scaffold1414	124832	AA	TT	TT	INTERGENIC		
SNP_95519_A_124963	NW_004516625.1	scaffold1414	124963	GG	AA	AA	INTERGENIC		
SNP_95520_A_125064	NW_004516625.1	scaffold1414	125064	GG	AA	AA	INTERGENIC		
SNP_95521_A_125174	NW_004516625.1	scaffold1414	125174	GG	AA	AA	INTERGENIC		
SNP_95522_A_139602	NW_004516625.1	scaffold1414	139602	TT	CC	CC	DRR	101490482	Unknown function
SNP_95523_A_139944	NW_004516625.1	scaffold1414	139944	CC	GG	GG	URR	101490157	Unknown function
SNP_95524_A_145241	NW_004516625.1	scaffold1414	145241	GG	AA	AA	INTRON	101490482	Unknown function
SNP_95525_A_145242	NW_004516625.1	scaffold1414	145242	CC	AA	AA	INTRON	101490482	Unknown function
SNP_95526_A_145246	NW_004516625.1	scaffold1414	145246	AA	TT	TT	INTRON	101490482	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95527_A_145252	NW_004516625.1	scaffold1414	145252	AA	TT	TT	INTRON	101490482	Unknown function
SNP_95528_A_145550	NW_004516625.1	scaffold1414	145550	AA	CC	CC	INTRON	101490482	Unknown function
SNP_95530_A_145601	NW_004516625.1	scaffold1414	145601	GG	AA	AA	INTERGENIC		
SNP_95531_A_145631	NW_004516625.1	scaffold1414	145631	CC	GG	GG	INTERGENIC		
SNP_95532_A_145666	NW_004516625.1	scaffold1414	145666	AA	CC	CC	INTERGENIC		
SNP_95533_A_148485	NW_004516625.1	scaffold1414	148485	CC	TT	TT	INTERGENIC		
SNP_95534_A_148516	NW_004516625.1	scaffold1414	148516	TT	CC	CC	INTERGENIC		
SNP_95535_A_148517	NW_004516625.1	scaffold1414	148517	AA	GG	GG	INTERGENIC		
SNP_95536_A_148547	NW_004516625.1	scaffold1414	148547	TT	GG	GG	INTERGENIC		
SNP_95537_A_148778	NW_004516625.1	scaffold1414	148778	GG	TT	TT	INTERGENIC		
SNP_95538_A_148787	NW_004516625.1	scaffold1414	148787	GG	TT	TT	INTERGENIC		
SNP_95539_A_154900	NW_004516625.1	scaffold1414	154900	GG	TT	TT	INTERGENIC		
SNP_95540_A_190257	NW_004516625.1	scaffold1414	190257	CC	AA	AA	INTERGENIC		
SNP_95541_A_190283	NW_004516625.1	scaffold1414	190283	AA	CC	CC	INTERGENIC		
SNP_95542_A_190286	NW_004516625.1	scaffold1414	190286	TT	GG	GG	INTERGENIC		
SNP_95543_A_190327	NW_004516625.1	scaffold1414	190327	TT	CC	CC	INTERGENIC		
SNP_95544_A_190363	NW_004516625.1	scaffold1414	190363	AA	TT	TT	INTERGENIC		
SNP_95545_A_190375	NW_004516625.1	scaffold1414	190375	TT	CC	CC	INTERGENIC		
SNP_95546_A_190394	NW_004516625.1	scaffold1414	190394	GG	AA	AA	INTERGENIC		
SNP_95547_A_190433	NW_004516625.1	scaffold1414	190433	AA	GG	GG	INTERGENIC		
SNP_95548_A_190449	NW_004516625.1	scaffold1414	190449	CC	TT	TT	INTERGENIC		
SNP_95549_A_190462	NW_004516625.1	scaffold1414	190462	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95550_A_190469	NW_004516625.1	scaffold1414	190469	AA	TT	TT	INTERGENIC			
SNP_95552_A_190638	NW_004516625.1	scaffold1414	190638	TT	CC	CC	INTERGENIC			
SNP_95553_A_190644	NW_004516625.1	scaffold1414	190644	GG	AA	AA	INTERGENIC			
SNP_95554_A_190698	NW_004516625.1	scaffold1414	190698	TT	GG	GG	INTERGENIC			
SNP_95555_A_195589	NW_004516625.1	scaffold1414	195589	AA	CC	CC	INTERGENIC			
SNP_95556_A_222231	NW_004516625.1	scaffold1414	222231	GG	CC	CC	INTERGENIC			
SNP_95557_A_241015	NW_004516625.1	scaffold1414	241015	GG	AA	AA	INTERGENIC			
SNP_95558_A_241209	NW_004516625.1	scaffold1414	241209	TT	CC	CC	INTERGENIC			
SNP_95559_A_245774	NW_004516625.1	scaffold1414	245774	TT	AA	AA	INTERGENIC			
SNP_95560_A_245775	NW_004516625.1	scaffold1414	245775	AA	CC	CC	INTERGENIC			
SNP_95561_A_245776	NW_004516625.1	scaffold1414	245776	TT	CC	CC	INTERGENIC			
SNP_95562_A_246134	NW_004516625.1	scaffold1414	246134	CC	GG	GG	INTERGENIC			
SNP_95563_A_246148	NW_004516625.1	scaffold1414	246148	CC	AA	AA	INTERGENIC			
SNP_95564_A_246149	NW_004516625.1	scaffold1414	246149	TT	CC	CC	INTERGENIC			
SNP_95566_A_41744	NW_004516627.1	scaffold1417	41744	TT	AA	AA	INTERGENIC			
SNP_95567_A_43611	NW_004516627.1	scaffold1417	43611	TT	CC	CC	INTERGENIC			
SNP_95568_A_47226	NW_004516627.1	scaffold1417	47226	CC	TT	TT	INTERGENIC			
SNP_95569_A_58599	NW_004516627.1	scaffold1417	58599	AA	GG	GG	INTERGENIC			
SNP_95570_A_58658	NW_004516627.1	scaffold1417	58658	GG	AA	AA	INTERGENIC			
SNP_95571_A_58661	NW_004516627.1	scaffold1417	58661	TT	AA	AA	INTERGENIC			
SNP_95572_A_58674	NW_004516627.1	scaffold1417	58674	AA	TT	TT	INTERGENIC			
SNP_95574_A_78441	NW_004516627.1	scaffold1417	78441	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95575_A_78447	NW_004516627.1	scaffold1417	78447	AA	TT	TT	INTERGENIC			
SNP_95576_A_120013	NW_004516627.1	scaffold1417	120013	CC	TT	TT	INTERGENIC			
SNP_95577_A_123643	NW_004516627.1	scaffold1417	123643	TT	GG	GG	INTERGENIC			
SNP_95578_A_123859	NW_004516627.1	scaffold1417	123859	TT	CC	CC	INTERGENIC			
SNP_95579_A_123927	NW_004516627.1	scaffold1417	123927	GG	AA	AA	INTERGENIC			
SNP_95580_A_123950	NW_004516627.1	scaffold1417	123950	TT	AA	AA	INTERGENIC			
SNP_95581_A_124114	NW_004516627.1	scaffold1417	124114	TT	CC	CC	INTERGENIC			
SNP_95582_A_149520	NW_004516627.1	scaffold1417	149520	AA	CC	CC	INTERGENIC			
SNP_95584_A_151209	NW_004516627.1	scaffold1417	151209	AA	GG	GG	INTERGENIC			
SNP_95585_A_151446	NW_004516627.1	scaffold1417	151446	AA	CC	CC	INTERGENIC			
SNP_95586_A_184458	NW_004516627.1	scaffold1417	184458	TT	CC	CC	INTERGENIC			
SNP_95587_A_189666	NW_004516627.1	scaffold1417	189666	GG	AA	AA	INTERGENIC			
SNP_95588_A_189863	NW_004516627.1	scaffold1417	189863	GG	AA	AA	INTERGENIC			
SNP_95589_A_191830	NW_004516627.1	scaffold1417	191830	GG	AA	AA	INTERGENIC			
SNP_95591_A_191849	NW_004516627.1	scaffold1417	191849	AA	GG	GG	INTERGENIC			
SNP_95592_A_234240	NW_004516627.1	scaffold1417	234240	TT	CC	CC	INTERGENIC			
SNP_95593_A_242594	NW_004516627.1	scaffold1417	242594	AA	TT	TT	INTERGENIC			
SNP_95594_A_245243	NW_004516627.1	scaffold1417	245243	TT	CC	CC	INTERGENIC			
SNP_95595_A_245426	NW_004516627.1	scaffold1417	245426	TT	CC	CC	INTERGENIC			
SNP_95596_A_249671	NW_004516627.1	scaffold1417	249671	AA	GG	GG	INTERGENIC			
SNP_95597_A_249942	NW_004516627.1	scaffold1417	249942	GG	TT	TT	INTERGENIC			
SNP_95598_A_249955	NW_004516627.1	scaffold1417	249955	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95599_A_260027	NW_004516627.1	scaffold1417	260027	GG	TT	TT	DRR	101492639	Unknown function
SNP_95600_A_260055	NW_004516627.1	scaffold1417	260055	GG	AA	AA	DRR	101492639	Unknown function
SNP_95601_A_260064	NW_004516627.1	scaffold1417	260064	CC	TT	TT	DRR	101492639	Unknown function
SNP_95602_A_260065	NW_004516627.1	scaffold1417	260065	TT	CC	CC	DRR	101492639	Unknown function
SNP_95603_A_260081	NW_004516627.1	scaffold1417	260081	AA	TT	TT	SYNONYMOUS_CODING	id212960	Unknown function
SNP_95604_A_260257	NW_004516627.1	scaffold1417	260257	GG	TT	TT	INTRON	id212960	Unknown function
SNP_95605_A_260275	NW_004516627.1	scaffold1417	260275	CC	TT	TT	INTRON	id212960	Unknown function
SNP_95606_A_260347	NW_004516627.1	scaffold1417	260347	GG	AA	AA	INTRON	id212960	Unknown function
SNP_95607_A_282879	NW_004516627.1	scaffold1417	282879	AA	GG	GG	INTERGENIC		
SNP_95608_A_282942	NW_004516627.1	scaffold1417	282942	AA	TT	TT	INTERGENIC		
SNP_95609_A_352211	NW_004516627.1	scaffold1417	352211	CC	TT	TT	INTERGENIC		
SNP_95610_A_352223	NW_004516627.1	scaffold1417	352223	TT	CC	CC	INTERGENIC		
SNP_95611_A_4092	NW_004516628.1	scaffold1418	4092	GG	TT	TT	URR	101494676	protein SRG1-like
SNP_95613_A_8542	NW_004516628.1	scaffold1418	8542	GG	AA	AA	INTERGENIC		
SNP_95614_A_8780	NW_004516628.1	scaffold1418	8780	TT	CC	CC	INTERGENIC		
SNP_95615_A_9705	NW_004516628.1	scaffold1418	9705	TT	GG	GG	INTERGENIC		
SNP_95616_A_12152	NW_004516628.1	scaffold1418	12152	CC	AA	AA	INTRON	101494995	pentatricopeptide repeat-containing protein At4g33170-like
SNP_95617_A_12153	NW_004516628.1	scaffold1418	12153	AA	TT	TT	INTRON	101494995	pentatricopeptide repeat-containing protein At4g33170-like
SNP_95619_A_13957	NW_004516628.1	scaffold1418	13957	TT	CC	CC	INTERGENIC		
SNP_95620_A_14333	NW_004516628.1	scaffold1418	14333	AA	GG	GG	INTERGENIC		
SNP_95621_A_14452	NW_004516628.1	scaffold1418	14452	TT	CC	CC	INTERGENIC		
SNP_95622_A_16368	NW_004516628.1	scaffold1418	16368	CC	TT	TT	URR	101494995	pentatricopeptide repeat-containing protein At4g33170-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95623_A_17363	NW_004516628.1	scaffold1418	17363	TT	CC	CC	DRR	101496308	protein SRG1-like
SNP_95624_A_17777	NW_004516628.1	scaffold1418	17777	CC	TT	TT	URR	101494995	pentatricopeptide repeat-containing protein At4g33170-like
SNP_95627_A_18480	NW_004516628.1	scaffold1418	18480	CC	TT	TT	INTRON	101496308	protein SRG1-like
SNP_95628_A_18543	NW_004516628.1	scaffold1418	18543	AA	GG	GG	INTRON	101496308	protein SRG1-like
SNP_95629_A_18812	NW_004516628.1	scaffold1418	18812	CC	AA	AA	INTRON	101496308	protein SRG1-like
SNP_95631_A_23064	NW_004516628.1	scaffold1418	23064	AA	TT	TT	URR	101496308	protein SRG1-like
SNP_95632_A_23065	NW_004516628.1	scaffold1418	23065	TT	CC	CC	URR	101496308	protein SRG1-like
SNP_95633_A_23067	NW_004516628.1	scaffold1418	23067	GG	AA	AA	URR	101496308	protein SRG1-like
SNP_95634_A_24706	NW_004516628.1	scaffold1418	24706	CC	GG	GG	URR	101496308	protein SRG1-like
SNP_95636_A_32025	NW_004516628.1	scaffold1418	32025	AA	TT	TT	DRR	101496638	DUF21 domain-containing protein At5g52790-like
SNP_95637_A_32984	NW_004516628.1	scaffold1418	32984	GG	AA	AA	INTRON	101496638	DUF21 domain-containing protein At5g52790-like
SNP_95638_A_33084	NW_004516628.1	scaffold1418	33084	AA	TT	TT	INTRON	101496638	DUF21 domain-containing protein At5g52790-like
SNP_95640_A_38722	NW_004516628.1	scaffold1418	38722	CC	TT	TT	INTRON	101496638	DUF21 domain-containing protein At5g52790-like
SNP_95641_A_39466	NW_004516628.1	scaffold1418	39466	CC	TT	TT	INTRON	101496638	DUF21 domain-containing protein At5g52790-like
SNP_95643_A_1989	NW_004516629.1	scaffold1419	1989	CC	TT	TT	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95644_A_2004	NW_004516629.1	scaffold1419	2004	TT	CC	CC	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95645_A_10358	NW_004516629.1	scaffold1419	10358	TT	AA	AA	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95646_A_10422	NW_004516629.1	scaffold1419	10422	GG	CC	CC	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95647_A_10553	NW_004516629.1	scaffold1419	10553	GG	CC	CC	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95648_A_10564	NW_004516629.1	scaffold1419	10564	GG	AA	AA	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95649_A_10567	NW_004516629.1	scaffold1419	10567	TT	CC	CC	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95651_A_10762	NW_004516629.1	scaffold1419	10762	GG	AA	AA	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95652_A_14861	NW_004516629.1	scaffold1419	14861	CC	TT	TT	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95653_A_14875	NW_004516629.1	scaffold1419	14875	TT	AA	AA	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95654_A_14905	NW_004516629.1	scaffold1419	14905	TT	AA	AA	INTRON	101497608	GDP-mannose 3,5-epimerase 1-like
SNP_95655_A_19690	NW_004516629.1	scaffold1419	19690	CC	TT	TT	INTERGENIC		
SNP_95656_A_19692	NW_004516629.1	scaffold1419	19692	TT	GG	GG	INTERGENIC		
SNP_95657_A_19767	NW_004516629.1	scaffold1419	19767	TT	CC	CC	INTERGENIC		
SNP_95658_A_20019	NW_004516629.1	scaffold1419	20019	CC	TT	TT	INTERGENIC		
SNP_95659_A_20140	NW_004516629.1	scaffold1419	20140	AA	CC	CC	INTERGENIC		
SNP_95660_A_20146	NW_004516629.1	scaffold1419	20146	GG	CC	CC	INTERGENIC		
SNP_95661_A_20148	NW_004516629.1	scaffold1419	20148	GG	AA	AA	INTERGENIC		
SNP_95662_A_20164	NW_004516629.1	scaffold1419	20164	CC	TT	TT	INTERGENIC		
SNP_95663_A_20193	NW_004516629.1	scaffold1419	20193	AA	CC	CC	INTERGENIC		
SNP_95664_A_20761	NW_004516629.1	scaffold1419	20761	GG	AA	AA	INTERGENIC		
SNP_95665_A_20763	NW_004516629.1	scaffold1419	20763	GG	CC	CC	INTERGENIC		
SNP_95666_A_21645	NW_004516629.1	scaffold1419	21645	TT	AA	AA	INTERGENIC		
SNP_95667_A_21646	NW_004516629.1	scaffold1419	21646	CC	AA	AA	INTERGENIC		
SNP_95668_A_21651	NW_004516629.1	scaffold1419	21651	AA	TT	TT	INTERGENIC		
SNP_95669_A_21664	NW_004516629.1	scaffold1419	21664	TT	AA	AA	INTERGENIC		
SNP_95670_A_21682	NW_004516629.1	scaffold1419	21682	AA	GG	GG	INTERGENIC		
SNP_95671_A_21748	NW_004516629.1	scaffold1419	21748	GG	AA	AA	INTERGENIC		
SNP_95672_A_21758	NW_004516629.1	scaffold1419	21758	AA	TT	TT	INTERGENIC		
SNP_95673_A_21779	NW_004516629.1	scaffold1419	21779	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95674_A_22058	NW_004516629.1	scaffold1419	22058	CC	TT	TT	INTERGENIC		
SNP_95675_A_22070	NW_004516629.1	scaffold1419	22070	AA	TT	TT	INTERGENIC		
SNP_95676_A_22122	NW_004516629.1	scaffold1419	22122	AA	TT	TT	INTERGENIC		
SNP_95677_A_22323	NW_004516629.1	scaffold1419	22323	AA	GG	GG	INTERGENIC		
SNP_95678_A_22395	NW_004516629.1	scaffold1419	22395	GG	TT	TT	INTERGENIC		
SNP_95680_A_22472	NW_004516629.1	scaffold1419	22472	GG	AA	AA	INTERGENIC		
SNP_95681_A_25919	NW_004516629.1	scaffold1419	25919	GG	TT	TT	INTERGENIC		
SNP_95682_A_26316	NW_004516629.1	scaffold1419	26316	CC	TT	TT	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95683_A_26324	NW_004516629.1	scaffold1419	26324	TT	CC	CC	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95684_A_26632	NW_004516629.1	scaffold1419	26632	TT	GG	GG	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95685_A_26736	NW_004516629.1	scaffold1419	26736	CC	TT	TT	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95686_A_26753	NW_004516629.1	scaffold1419	26753	TT	AA	AA	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95687_A_26783	NW_004516629.1	scaffold1419	26783	GG	AA	AA	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95688_A_26847	NW_004516629.1	scaffold1419	26847	CC	TT	TT	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95689_A_26879	NW_004516629.1	scaffold1419	26879	TT	CC	CC	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95690_A_26895	NW_004516629.1	scaffold1419	26895	AA	CC	CC	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95691_A_26897	NW_004516629.1	scaffold1419	26897	AA	GG	GG	DRR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95692_A_27067	NW_004516629.1	scaffold1419	27067	TT	CC	CC	URR	101497286	60S acidic ribosomal protein P1-2-like
SNP_95693_A_27160	NW_004516629.1	scaffold1419	27160	CC	TT	TT	URR	101497286	60S acidic ribosomal protein P1-2-like
SNP_95694_A_30673	NW_004516629.1	scaffold1419	30673	GG	AA	AA	URR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95695_A_30675	NW_004516629.1	scaffold1419	30675	AA	GG	GG	URR	101497940	granule-bound starch synthase 1, chloroplastic/amyloplastic-like
SNP_95699_A_49571	NW_004516629.1	scaffold1419	49571	AA	TT	TT	INTRON	101498264	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95700_A_49576	NW_004516629.1	scaffold1419	49576	AA	TT	TT	INTRON	101498264	Unknown function
SNP_95701_A_50898	NW_004516629.1	scaffold1419	50898	TT	AA	AA	INTRON	101498264	Unknown function
SNP_95702_A_51069	NW_004516629.1	scaffold1419	51069	CC	TT	TT	INTRON	101498264	Unknown function
SNP_95703_A_57438	NW_004516629.1	scaffold1419	57438	AA	GG	GG	INTERGENIC		
SNP_95704_A_57444	NW_004516629.1	scaffold1419	57444	AA	GG	GG	INTERGENIC		
SNP_95705_A_57469	NW_004516629.1	scaffold1419	57469	GG	TT	TT	INTERGENIC		
SNP_95706_A_57483	NW_004516629.1	scaffold1419	57483	AA	GG	GG	INTERGENIC		
SNP_95707_A_57499	NW_004516629.1	scaffold1419	57499	TT	CC	CC	INTERGENIC		
SNP_95708_A_57593	NW_004516629.1	scaffold1419	57593	TT	GG	GG	INTERGENIC		
SNP_95709_A_57601	NW_004516629.1	scaffold1419	57601	TT	GG	GG	INTERGENIC		
SNP_95710_A_1750	NW_004516630.1	scaffold1420	1750	AA	CC	CC	INTERGENIC		
SNP_95711_A_1753	NW_004516630.1	scaffold1420	1753	AA	CC	CC	INTERGENIC		
SNP_95712_A_1782	NW_004516630.1	scaffold1420	1782	CC	TT	TT	INTERGENIC		
SNP_95713_A_1817	NW_004516630.1	scaffold1420	1817	TT	CC	CC	INTERGENIC		
SNP_95714_A_1835	NW_004516630.1	scaffold1420	1835	TT	CC	CC	INTERGENIC		
SNP_95715_A_1867	NW_004516630.1	scaffold1420	1867	AA	CC	CC	INTERGENIC		
SNP_95716_A_1924	NW_004516630.1	scaffold1420	1924	CC	GG	GG	INTERGENIC		
SNP_95717_A_1928	NW_004516630.1	scaffold1420	1928	TT	AA	AA	INTERGENIC		
SNP_95718_A_2092	NW_004516630.1	scaffold1420	2092	AA	GG	GG	INTERGENIC		
SNP_95719_A_2105	NW_004516630.1	scaffold1420	2105	TT	CC	CC	INTERGENIC		
SNP_95720_A_2195	NW_004516630.1	scaffold1420	2195	AA	GG	GG	INTERGENIC		
SNP_95721_A_2229	NW_004516630.1	scaffold1420	2229	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95722_A_2274	NW_004516630.1	scaffold1420	2274	GG	AA	AA	INTERGENIC			
SNP_95723_A_4930	NW_004516630.1	scaffold1420	4930	TT	CC	CC	INTERGENIC			
SNP_95724_A_5121	NW_004516630.1	scaffold1420	5121	CC	TT	TT	INTERGENIC			
SNP_95725_A_5146	NW_004516630.1	scaffold1420	5146	AA	TT	TT	INTERGENIC			
SNP_95726_A_5355	NW_004516630.1	scaffold1420	5355	CC	AA	AA	INTERGENIC			
SNP_95727_A_5381	NW_004516630.1	scaffold1420	5381	AA	GG	GG	INTERGENIC			
SNP_95728_A_5384	NW_004516630.1	scaffold1420	5384	CC	AA	AA	INTERGENIC			
SNP_95729_A_5408	NW_004516630.1	scaffold1420	5408	CC	TT	TT	INTERGENIC			
SNP_95730_A_5409	NW_004516630.1	scaffold1420	5409	AA	CC	CC	INTERGENIC			
SNP_95731_A_9446	NW_004516630.1	scaffold1420	9446	TT	GG	GG	INTERGENIC			
SNP_95732_A_9554	NW_004516630.1	scaffold1420	9554	TT	CC	CC	INTERGENIC			
SNP_95733_A_15131	NW_004516630.1	scaffold1420	15131	CC	TT	TT	INTERGENIC			
SNP_95734_A_15166	NW_004516630.1	scaffold1420	15166	TT	AA	AA	INTERGENIC			
SNP_95735_A_15167	NW_004516630.1	scaffold1420	15167	TT	CC	CC	INTERGENIC			
SNP_95737_A_21199	NW_004516630.1	scaffold1420	21199	CC	GG	GG	URR	101498598	60S acidic ribosomal protein P1-like	
SNP_95739_A_1951	NW_004516631.1	scaffold1422	1951	GG	AA	AA	INTERGENIC			
SNP_95740_A_2250	NW_004516631.1	scaffold1422	2250	CC	TT	TT	INTERGENIC			
SNP_95741_A_2267	NW_004516631.1	scaffold1422	2267	AA	TT	TT	INTERGENIC			
SNP_95742_A_64	NW_004516633.1	scaffold1424	64	CC	GG	GG	INTERGENIC			
SNP_95743_A_91	NW_004516633.1	scaffold1424	91	AA	TT	TT	INTERGENIC			
SNP_95744_A_496	NW_004516633.1	scaffold1424	496	GG	TT	TT	INTERGENIC			
SNP_95745_A_3283	NW_004516633.1	scaffold1424	3283	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95749_A_15325	NW_004516633.1	scaffold1424	15325	AA	GG	GG	INTERGENIC			
SNP_95750_A_15348	NW_004516633.1	scaffold1424	15348	CC	TT	TT	INTERGENIC			
SNP_95751_A_15371	NW_004516633.1	scaffold1424	15371	TT	GG	GG	INTERGENIC			
SNP_95752_A_43807	NW_004516633.1	scaffold1424	43807	TT	CC	CC	INTERGENIC			
SNP_95753_A_43828	NW_004516633.1	scaffold1424	43828	TT	AA	AA	INTERGENIC			
SNP_95754_A_43842	NW_004516633.1	scaffold1424	43842	TT	CC	CC	INTERGENIC			
SNP_95755_A_43858	NW_004516633.1	scaffold1424	43858	AA	GG	GG	INTERGENIC			
SNP_95756_A_43881	NW_004516633.1	scaffold1424	43881	CC	GG	GG	INTERGENIC			
SNP_95757_A_43913	NW_004516633.1	scaffold1424	43913	GG	CC	CC	INTERGENIC			
SNP_95758_A_44027	NW_004516633.1	scaffold1424	44027	GG	CC	CC	INTERGENIC			
SNP_95759_A_44093	NW_004516633.1	scaffold1424	44093	GG	TT	TT	INTERGENIC			
SNP_95760_A_44104	NW_004516633.1	scaffold1424	44104	CC	AA	AA	INTERGENIC			
SNP_95761_A_44143	NW_004516633.1	scaffold1424	44143	GG	CC	CC	INTERGENIC			
SNP_95762_A_44144	NW_004516633.1	scaffold1424	44144	GG	AA	AA	INTERGENIC			
SNP_95763_A_44149	NW_004516633.1	scaffold1424	44149	AA	TT	TT	INTERGENIC			
SNP_95764_A_44169	NW_004516633.1	scaffold1424	44169	GG	TT	TT	INTERGENIC			
SNP_95765_A_44177	NW_004516633.1	scaffold1424	44177	TT	CC	CC	INTERGENIC			
SNP_95766_A_48247	NW_004516633.1	scaffold1424	48247	CC	AA	AA	INTERGENIC			
SNP_95767_A_48315	NW_004516633.1	scaffold1424	48315	AA	CC	CC	INTERGENIC			
SNP_95768_A_48327	NW_004516633.1	scaffold1424	48327	GG	TT	TT	INTERGENIC			
SNP_95769_A_48360	NW_004516633.1	scaffold1424	48360	TT	GG	GG	INTERGENIC			
SNP_95770_A_48362	NW_004516633.1	scaffold1424	48362	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95771_A_48400	NW_004516633.1	scaffold1424	48400	AA	CC	CC	INTERGENIC			
SNP_95772_A_48407	NW_004516633.1	scaffold1424	48407	AA	GG	GG	INTERGENIC			
SNP_95773_A_48468	NW_004516633.1	scaffold1424	48468	GG	AA	AA	INTERGENIC			
SNP_95774_A_48493	NW_004516633.1	scaffold1424	48493	GG	TT	TT	INTERGENIC			
SNP_95776_A_48711	NW_004516633.1	scaffold1424	48711	TT	GG	GG	INTERGENIC			
SNP_95777_A_48741	NW_004516633.1	scaffold1424	48741	GG	AA	AA	INTERGENIC			
SNP_95778_A_52302	NW_004516633.1	scaffold1424	52302	GG	CC	CC	INTERGENIC			
SNP_95779_A_4237	NW_004516634.1	scaffold1425	4237	TT	CC	CC	INTERGENIC			
SNP_95780_A_4364	NW_004516634.1	scaffold1425	4364	AA	CC	CC	INTERGENIC			
SNP_95781_A_4381	NW_004516634.1	scaffold1425	4381	AA	GG	GG	INTERGENIC			
SNP_95782_A_4412	NW_004516634.1	scaffold1425	4412	AA	CC	CC	INTERGENIC			
SNP_95783_A_4447	NW_004516634.1	scaffold1425	4447	TT	CC	CC	INTERGENIC			
SNP_95784_A_4525	NW_004516634.1	scaffold1425	4525	GG	AA	AA	INTERGENIC			
SNP_95785_A_4776	NW_004516634.1	scaffold1425	4776	AA	CC	CC	INTERGENIC			
SNP_95786_A_4804	NW_004516634.1	scaffold1425	4804	AA	GG	GG	INTERGENIC			
SNP_95787_A_4814	NW_004516634.1	scaffold1425	4814	TT	GG	GG	INTERGENIC			
SNP_95788_A_4852	NW_004516634.1	scaffold1425	4852	TT	AA	AA	INTERGENIC			
SNP_95789_A_4853	NW_004516634.1	scaffold1425	4853	AA	CC	CC	INTERGENIC			
SNP_95790_A_4874	NW_004516634.1	scaffold1425	4874	AA	TT	TT	INTERGENIC			
SNP_95791_A_4889	NW_004516634.1	scaffold1425	4889	GG	AA	AA	INTERGENIC			
SNP_95792_A_452	NW_004516635.1	scaffold1426	452	TT	CC	CC	INTERGENIC			
SNP_95794_A_5570	NW_004516635.1	scaffold1426	5570	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95795_A_5631	NW_004516635.1	scaffold1426	5631	TT	AA	AA	INTERGENIC			
SNP_95796_A_5786	NW_004516635.1	scaffold1426	5786	CC	TT	TT	INTERGENIC			
SNP_95798_A_5971	NW_004516635.1	scaffold1426	5971	TT	GG	GG	INTERGENIC			
SNP_95799_A_6191	NW_004516635.1	scaffold1426	6191	TT	GG	GG	INTERGENIC			
SNP_95800_A_6209	NW_004516635.1	scaffold1426	6209	TT	CC	CC	INTERGENIC			
SNP_95801_A_6220	NW_004516635.1	scaffold1426	6220	AA	GG	GG	INTERGENIC			
SNP_95802_A_6332	NW_004516635.1	scaffold1426	6332	AA	TT	TT	INTERGENIC			
SNP_95804_A_6855	NW_004516635.1	scaffold1426	6855	CC	TT	TT	INTERGENIC			
SNP_95805_A_7007	NW_004516635.1	scaffold1426	7007	CC	AA	AA	INTERGENIC			
SNP_95806_A_7023	NW_004516635.1	scaffold1426	7023	TT	CC	CC	INTERGENIC			
SNP_95807_A_7044	NW_004516635.1	scaffold1426	7044	AA	GG	GG	INTERGENIC			
SNP_95808_A_7073	NW_004516635.1	scaffold1426	7073	AA	TT	TT	INTERGENIC			
SNP_95810_A_7241	NW_004516635.1	scaffold1426	7241	AA	GG	GG	INTERGENIC			
SNP_95811_A_7380	NW_004516635.1	scaffold1426	7380	TT	CC	CC	INTERGENIC			
SNP_95812_A_7412	NW_004516635.1	scaffold1426	7412	CC	GG	GG	INTERGENIC			
SNP_95813_A_7439	NW_004516635.1	scaffold1426	7439	CC	TT	TT	INTERGENIC			
SNP_95814_A_11640	NW_004516635.1	scaffold1426	11640	AA	TT	TT	INTERGENIC			
SNP_95815_A_779	NW_004516636.1	scaffold1429	779	GG	AA	AA	INTERGENIC			
SNP_95816_A_787	NW_004516636.1	scaffold1429	787	CC	GG	GG	INTERGENIC			
SNP_95817_A_820	NW_004516636.1	scaffold1429	820	AA	GG	GG	INTERGENIC			
SNP_95819_A_1560	NW_004516637.1	scaffold1430	1560	AA	GG	GG	INTERGENIC			
SNP_95820_A_4425	NW_004516637.1	scaffold1430	4425	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95821_A_4457	NW_004516637.1	scaffold1430	4457	TT	CC	CC	INTERGENIC			
SNP_95822_A_4482	NW_004516637.1	scaffold1430	4482	CC	TT	TT	INTERGENIC			
SNP_95823_A_4491	NW_004516637.1	scaffold1430	4491	GG	AA	AA	INTERGENIC			
SNP_95824_A_4830	NW_004516637.1	scaffold1430	4830	GG	AA	AA	INTERGENIC			
SNP_95825_A_4841	NW_004516637.1	scaffold1430	4841	TT	AA	AA	INTERGENIC			
SNP_95826_A_4846	NW_004516637.1	scaffold1430	4846	GG	AA	AA	INTERGENIC			
SNP_95827_A_4868	NW_004516637.1	scaffold1430	4868	TT	GG	GG	INTERGENIC			
SNP_95828_A_5241	NW_004516637.1	scaffold1430	5241	AA	GG	GG	INTERGENIC			
SNP_95829_A_5376	NW_004516637.1	scaffold1430	5376	TT	CC	CC	INTERGENIC			
SNP_95830_A_5443	NW_004516637.1	scaffold1430	5443	TT	CC	CC	INTERGENIC			
SNP_95831_A_5689	NW_004516637.1	scaffold1430	5689	AA	GG	GG	INTERGENIC			
SNP_95832_A_5760	NW_004516637.1	scaffold1430	5760	AA	TT	TT	INTERGENIC			
SNP_95833_A_6254	NW_004516637.1	scaffold1430	6254	AA	TT	TT	INTERGENIC			
SNP_95834_A_6832	NW_004516637.1	scaffold1430	6832	GG	AA	AA	INTERGENIC			
SNP_95835_A_1569	NW_004516638.1	scaffold1432	1569	TT	CC	CC	INTERGENIC			
SNP_95836_A_1966	NW_004516638.1	scaffold1432	1966	GG	AA	AA	INTERGENIC			
SNP_95838_A_53497	NW_004516638.1	scaffold1432	53497	AA	GG	GG	INTERGENIC			
SNP_95839_A_53502	NW_004516638.1	scaffold1432	53502	GG	CC	CC	INTERGENIC			
SNP_95840_A_53511	NW_004516638.1	scaffold1432	53511	CC	TT	TT	INTERGENIC			
SNP_95841_A_58321	NW_004516638.1	scaffold1432	58321	CC	GG	GG	INTERGENIC			
SNP_95842_A_59852	NW_004516638.1	scaffold1432	59852	CC	AA	AA	INTERGENIC			
SNP_95844_A_71401	NW_004516638.1	scaffold1432	71401	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95845_A_79988	NW_004516638.1	scaffold1432	79988	TT	CC	CC	INTERGENIC			
SNP_95846_A_80022	NW_004516638.1	scaffold1432	80022	CC	GG	GG	INTERGENIC			
SNP_95847_A_80033	NW_004516638.1	scaffold1432	80033	TT	CC	CC	INTERGENIC			
SNP_95848_A_80134	NW_004516638.1	scaffold1432	80134	TT	CC	CC	INTERGENIC			
SNP_95850_A_80235	NW_004516638.1	scaffold1432	80235	TT	AA	AA	INTERGENIC			
SNP_95851_A_80283	NW_004516638.1	scaffold1432	80283	TT	AA	AA	INTERGENIC			
SNP_95852_A_80327	NW_004516638.1	scaffold1432	80327	CC	TT	TT	INTERGENIC			
SNP_95853_A_80344	NW_004516638.1	scaffold1432	80344	GG	AA	AA	INTERGENIC			
SNP_95854_A_80402	NW_004516638.1	scaffold1432	80402	CC	AA	AA	INTERGENIC			
SNP_95857_A_80578	NW_004516638.1	scaffold1432	80578	TT	AA	AA	INTERGENIC			
SNP_95858_A_80595	NW_004516638.1	scaffold1432	80595	AA	CC	CC	INTERGENIC			
SNP_95859_A_80627	NW_004516638.1	scaffold1432	80627	AA	GG	GG	INTERGENIC			
SNP_95860_A_80633	NW_004516638.1	scaffold1432	80633	CC	TT	TT	INTERGENIC			
SNP_95861_A_80884	NW_004516638.1	scaffold1432	80884	TT	CC	CC	INTERGENIC			
SNP_95862_A_80924	NW_004516638.1	scaffold1432	80924	AA	TT	TT	INTERGENIC			
SNP_95863_A_80940	NW_004516638.1	scaffold1432	80940	AA	GG	GG	INTERGENIC			
SNP_95864_A_449	NW_004516639.1	scaffold1433	449	AA	CC	CC	INTERGENIC			
SNP_95865_A_479	NW_004516639.1	scaffold1433	479	CC	TT	TT	INTERGENIC			
SNP_95866_A_579	NW_004516639.1	scaffold1433	579	TT	AA	AA	INTERGENIC			
SNP_95867_A_898	NW_004516639.1	scaffold1433	898	CC	TT	TT	INTERGENIC			
SNP_95868_A_3436	NW_004516639.1	scaffold1433	3436	GG	AA	AA	INTERGENIC			
SNP_95869_A_4210	NW_004516639.1	scaffold1433	4210	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95870_A_4936	NW_004516639.1	scaffold1433	4936	AA	GG	GG	INTERGENIC			
SNP_95871_A_4943	NW_004516639.1	scaffold1433	4943	TT	GG	GG	INTERGENIC			
SNP_95872_A_5909	NW_004516639.1	scaffold1433	5909	GG	AA	AA	INTERGENIC			
SNP_95873_A_8312	NW_004516639.1	scaffold1433	8312	TT	GG	GG	INTERGENIC			
SNP_95874_A_8331	NW_004516639.1	scaffold1433	8331	AA	TT	TT	INTERGENIC			
SNP_95875_A_8358	NW_004516639.1	scaffold1433	8358	AA	GG	GG	INTERGENIC			
SNP_95876_A_8663	NW_004516639.1	scaffold1433	8663	TT	CC	CC	INTERGENIC			
SNP_95877_A_9052	NW_004516639.1	scaffold1433	9052	CC	AA	AA	INTERGENIC			
SNP_95878_A_9094	NW_004516639.1	scaffold1433	9094	AA	CC	CC	INTERGENIC			
SNP_95879_A_9327	NW_004516639.1	scaffold1433	9327	AA	GG	GG	INTERGENIC			
SNP_95880_A_15512	NW_004516639.1	scaffold1433	15512	TT	GG	GG	INTERGENIC			
SNP_95881_A_15716	NW_004516639.1	scaffold1433	15716	GG	AA	AA	INTERGENIC			
SNP_95882_A_15737	NW_004516639.1	scaffold1433	15737	GG	AA	AA	INTERGENIC			
SNP_95883_A_15750	NW_004516639.1	scaffold1433	15750	AA	GG	GG	INTERGENIC			
SNP_95884_A_15787	NW_004516639.1	scaffold1433	15787	CC	AA	AA	INTERGENIC			
SNP_95885_A_15798	NW_004516639.1	scaffold1433	15798	GG	AA	AA	INTERGENIC			
SNP_95886_A_17136	NW_004516639.1	scaffold1433	17136	AA	GG	GG	INTERGENIC			
SNP_95887_A_17153	NW_004516639.1	scaffold1433	17153	AA	GG	GG	INTERGENIC			
SNP_95888_A_18727	NW_004516639.1	scaffold1433	18727	AA	GG	GG	INTERGENIC			
SNP_95889_A_18927	NW_004516639.1	scaffold1433	18927	AA	CC	CC	INTERGENIC			
SNP_95890_A_18945	NW_004516639.1	scaffold1433	18945	TT	CC	CC	INTERGENIC			
SNP_95891_A_19088	NW_004516639.1	scaffold1433	19088	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95892_A_19090	NW_004516639.1	scaffold1433	19090	TT	CC	CC	INTERGENIC			
SNP_95893_A_20871	NW_004516639.1	scaffold1433	20871	TT	CC	CC	INTERGENIC			
SNP_95894_A_21067	NW_004516639.1	scaffold1433	21067	AA	TT	TT	INTERGENIC			
SNP_95895_A_21076	NW_004516639.1	scaffold1433	21076	AA	GG	GG	INTERGENIC			
SNP_95896_A_21101	NW_004516639.1	scaffold1433	21101	GG	AA	AA	INTERGENIC			
SNP_95898_A_21161	NW_004516639.1	scaffold1433	21161	CC	TT	TT	INTERGENIC			
SNP_95899_A_21186	NW_004516639.1	scaffold1433	21186	CC	TT	TT	INTERGENIC			
SNP_95900_A_21239	NW_004516639.1	scaffold1433	21239	CC	TT	TT	INTERGENIC			
SNP_95901_A_21280	NW_004516639.1	scaffold1433	21280	AA	TT	TT	INTERGENIC			
SNP_95902_A_21298	NW_004516639.1	scaffold1433	21298	GG	AA	AA	INTERGENIC			
SNP_95903_A_21306	NW_004516639.1	scaffold1433	21306	AA	GG	GG	INTERGENIC			
SNP_95904_A_21401	NW_004516639.1	scaffold1433	21401	TT	CC	CC	INTERGENIC			
SNP_95905_A_21534	NW_004516639.1	scaffold1433	21534	TT	GG	GG	INTERGENIC			
SNP_95906_A_21662	NW_004516639.1	scaffold1433	21662	AA	TT	TT	INTERGENIC			
SNP_95907_A_21696	NW_004516639.1	scaffold1433	21696	GG	AA	AA	INTERGENIC			
SNP_95908_A_21735	NW_004516639.1	scaffold1433	21735	TT	GG	GG	INTERGENIC			
SNP_95910_A_21803	NW_004516639.1	scaffold1433	21803	GG	TT	TT	INTERGENIC			
SNP_95911_A_21828	NW_004516639.1	scaffold1433	21828	GG	AA	AA	INTERGENIC			
SNP_95912_A_21886	NW_004516639.1	scaffold1433	21886	CC	TT	TT	INTERGENIC			
SNP_95914_A_22036	NW_004516639.1	scaffold1433	22036	CC	GG	GG	INTERGENIC			
SNP_95915_A_22054	NW_004516639.1	scaffold1433	22054	CC	AA	AA	INTERGENIC			
SNP_95916_A_22055	NW_004516639.1	scaffold1433	22055	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95917_A_22157	NW_004516639.1	scaffold1433	22157	CC	AA	AA	INTERGENIC			
SNP_95918_A_22214	NW_004516639.1	scaffold1433	22214	TT	CC	CC	INTERGENIC			
SNP_95919_A_22239	NW_004516639.1	scaffold1433	22239	GG	AA	AA	INTERGENIC			
SNP_95920_A_22328	NW_004516639.1	scaffold1433	22328	TT	GG	GG	INTERGENIC			
SNP_95921_A_22331	NW_004516639.1	scaffold1433	22331	GG	TT	TT	INTERGENIC			
SNP_95922_A_22393	NW_004516639.1	scaffold1433	22393	GG	CC	CC	INTERGENIC			
SNP_95923_A_22413	NW_004516639.1	scaffold1433	22413	TT	GG	GG	INTERGENIC			
SNP_95924_A_22457	NW_004516639.1	scaffold1433	22457	AA	GG	GG	INTERGENIC			
SNP_95925_A_22489	NW_004516639.1	scaffold1433	22489	CC	TT	TT	INTERGENIC			
SNP_95926_A_22493	NW_004516639.1	scaffold1433	22493	CC	TT	TT	INTERGENIC			
SNP_95927_A_22527	NW_004516639.1	scaffold1433	22527	CC	TT	TT	INTERGENIC			
SNP_95928_A_22543	NW_004516639.1	scaffold1433	22543	AA	TT	TT	INTERGENIC			
SNP_95929_A_22584	NW_004516639.1	scaffold1433	22584	TT	AA	AA	INTERGENIC			
SNP_95930_A_22638	NW_004516639.1	scaffold1433	22638	CC	GG	GG	INTERGENIC			
SNP_95931_A_22669	NW_004516639.1	scaffold1433	22669	TT	CC	CC	INTERGENIC			
SNP_95932_A_22692	NW_004516639.1	scaffold1433	22692	AA	GG	GG	INTERGENIC			
SNP_95933_A_22721	NW_004516639.1	scaffold1433	22721	GG	CC	CC	INTERGENIC			
SNP_95934_A_22818	NW_004516639.1	scaffold1433	22818	CC	AA	AA	INTERGENIC			
SNP_95935_A_22870	NW_004516639.1	scaffold1433	22870	TT	GG	GG	INTERGENIC			
SNP_95936_A_23040	NW_004516639.1	scaffold1433	23040	AA	TT	TT	INTERGENIC			
SNP_95937_A_23157	NW_004516639.1	scaffold1433	23157	CC	AA	AA	INTERGENIC			
SNP_95938_A_24339	NW_004516639.1	scaffold1433	24339	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95939_A_24689	NW_004516639.1	scaffold1433	24689	CC	TT	TT	INTERGENIC			
SNP_95940_A_24700	NW_004516639.1	scaffold1433	24700	AA	TT	TT	INTERGENIC			
SNP_95941_A_24859	NW_004516639.1	scaffold1433	24859	GG	AA	AA	INTERGENIC			
SNP_95942_A_24964	NW_004516639.1	scaffold1433	24964	AA	GG	GG	INTERGENIC			
SNP_95943_A_24979	NW_004516639.1	scaffold1433	24979	AA	GG	GG	INTERGENIC			
SNP_95944_A_25051	NW_004516639.1	scaffold1433	25051	AA	GG	GG	INTERGENIC			
SNP_95945_A_25104	NW_004516639.1	scaffold1433	25104	TT	CC	CC	INTERGENIC			
SNP_95946_A_25106	NW_004516639.1	scaffold1433	25106	GG	TT	TT	INTERGENIC			
SNP_95947_A_25108	NW_004516639.1	scaffold1433	25108	CC	TT	TT	INTERGENIC			
SNP_95948_A_25134	NW_004516639.1	scaffold1433	25134	CC	TT	TT	INTERGENIC			
SNP_95949_A_25424	NW_004516639.1	scaffold1433	25424	GG	CC	CC	INTERGENIC			
SNP_95950_A_25594	NW_004516639.1	scaffold1433	25594	TT	CC	CC	INTERGENIC			
SNP_95951_A_25889	NW_004516639.1	scaffold1433	25889	GG	CC	CC	INTERGENIC			
SNP_95952_A_26323	NW_004516639.1	scaffold1433	26323	CC	AA	AA	INTERGENIC			
SNP_95953_A_32045	NW_004516639.1	scaffold1433	32045	AA	CC	CC	INTERGENIC			
SNP_95954_A_33296	NW_004516639.1	scaffold1433	33296	TT	CC	CC	INTERGENIC			
SNP_95955_A_33555	NW_004516639.1	scaffold1433	33555	AA	TT	TT	INTERGENIC			
SNP_95956_A_33556	NW_004516639.1	scaffold1433	33556	GG	AA	AA	INTERGENIC			
SNP_95959_A_38887	NW_004516639.1	scaffold1433	38887	TT	CC	CC	INTERGENIC			
SNP_95960_A_39179	NW_004516639.1	scaffold1433	39179	GG	AA	AA	INTERGENIC			
SNP_95961_A_722	NW_004516640.1	scaffold1436	722	GG	AA	AA	INTERGENIC			
SNP_95962_A_1305	NW_004516640.1	scaffold1436	1305	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_95964_A_64	NW_004516641.1	scaffold1437	64	CC	TT	TT	INTERGENIC		
SNP_95965_A_85	NW_004516641.1	scaffold1437	85	AA	GG	GG	INTERGENIC		
SNP_95966_A_91	NW_004516641.1	scaffold1437	91	GG	AA	AA	INTERGENIC		
SNP_95967_A_98	NW_004516641.1	scaffold1437	98	TT	CC	CC	INTERGENIC		
SNP_95969_A_199000	NW_004516642.1	scaffold1439	199000	AA	GG	GG	URR	101502227	potassium transporter 4
SNP_95970_A_199541	NW_004516642.1	scaffold1439	199541	TT	AA	AA	URR	101502227	potassium transporter 4
SNP_95971_A_248568	NW_004516642.1	scaffold1439	248568	GG	TT	TT	INTERGENIC		
SNP_95972_A_248575	NW_004516642.1	scaffold1439	248575	CC	GG	GG	INTERGENIC		
SNP_95973_A_248847	NW_004516642.1	scaffold1439	248847	CC	AA	AA	INTERGENIC		
SNP_95974_A_270779	NW_004516642.1	scaffold1439	270779	GG	AA	AA	NON_SYNONYMOUS_CODING	101505328	uncharacterized LOC101505328
SNP_95975_A_270782	NW_004516642.1	scaffold1439	270782	CC	TT	TT	SYNONYMOUS_CODING	101505328	uncharacterized LOC101505328
SNP_95976_A_274440	NW_004516642.1	scaffold1439	274440	CC	TT	TT	INTERGENIC		
SNP_95977_A_281509	NW_004516642.1	scaffold1439	281509	TT	GG	GG	INTERGENIC		
SNP_95978_A_281511	NW_004516642.1	scaffold1439	281511	CC	TT	TT	INTERGENIC		
SNP_95979_A_1262	NW_004516643.1	scaffold1440	1262	AA	GG	GG	INTERGENIC		
SNP_95980_A_1470	NW_004516643.1	scaffold1440	1470	CC	TT	TT	INTERGENIC		
SNP_95981_A_2645	NW_004516643.1	scaffold1440	2645	CC	AA	AA	INTERGENIC		
SNP_95982_A_2728	NW_004516643.1	scaffold1440	2728	GG	TT	TT	INTERGENIC		
SNP_95983_A_2730	NW_004516643.1	scaffold1440	2730	TT	AA	AA	INTERGENIC		
SNP_95984_A_2782	NW_004516643.1	scaffold1440	2782	CC	TT	TT	INTERGENIC		
SNP_95985_A_2790	NW_004516643.1	scaffold1440	2790	TT	CC	CC	INTERGENIC		
SNP_95986_A_2816	NW_004516643.1	scaffold1440	2816	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_95987_A_2843	NW_004516643.1	scaffold1440	2843	GG	TT	TT	INTERGENIC			
SNP_95988_A_2861	NW_004516643.1	scaffold1440	2861	CC	TT	TT	INTERGENIC			
SNP_95989_A_2871	NW_004516643.1	scaffold1440	2871	CC	GG	GG	INTERGENIC			
SNP_95990_A_2881	NW_004516643.1	scaffold1440	2881	GG	AA	AA	INTERGENIC			
SNP_95991_A_3029	NW_004516643.1	scaffold1440	3029	AA	GG	GG	INTERGENIC			
SNP_95992_A_3088	NW_004516643.1	scaffold1440	3088	TT	CC	CC	INTERGENIC			
SNP_95993_A_3091	NW_004516643.1	scaffold1440	3091	AA	TT	TT	INTERGENIC			
SNP_95994_A_3099	NW_004516643.1	scaffold1440	3099	TT	GG	GG	INTERGENIC			
SNP_95995_A_3121	NW_004516643.1	scaffold1440	3121	TT	CC	CC	INTERGENIC			
SNP_95996_A_3155	NW_004516643.1	scaffold1440	3155	AA	GG	GG	INTERGENIC			
SNP_95997_A_49207	NW_004516643.1	scaffold1440	49207	CC	TT	TT	INTERGENIC			
SNP_95998_A_49456	NW_004516643.1	scaffold1440	49456	GG	AA	AA	INTERGENIC			
SNP_95999_A_49478	NW_004516643.1	scaffold1440	49478	CC	TT	TT	INTERGENIC			
SNP_96000_A_49577	NW_004516643.1	scaffold1440	49577	GG	CC	CC	INTERGENIC			
SNP_96001_A_1407	NW_004516646.1	scaffold1445	1407	TT	AA	AA	INTERGENIC			
SNP_96002_A_2933	NW_004516646.1	scaffold1445	2933	CC	TT	TT	INTERGENIC			
SNP_96003_A_4556	NW_004516646.1	scaffold1445	4556	AA	CC	CC	INTERGENIC			
SNP_96004_A_4589	NW_004516646.1	scaffold1445	4589	AA	TT	TT	INTERGENIC			
SNP_96005_A_11301	NW_004516647.1	scaffold1446	11301	GG	AA	AA	INTERGENIC			
SNP_96006_A_13210	NW_004516647.1	scaffold1446	13210	GG	AA	AA	INTERGENIC			
SNP_96008_A_10279	NW_004516648.1	scaffold1447	10279	TT	CC	CC	INTERGENIC			
SNP_96009_A_11576	NW_004516648.1	scaffold1447	11576	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96010_A_18932	NW_004516648.1	scaffold1447	18932	TT	GG	GG	INTERGENIC			
SNP_96011_A_18945	NW_004516648.1	scaffold1447	18945	TT	CC	CC	INTERGENIC			
SNP_96012_A_20108	NW_004516648.1	scaffold1447	20108	TT	CC	CC	INTERGENIC			
SNP_96013_A_20123	NW_004516648.1	scaffold1447	20123	AA	GG	GG	INTERGENIC			
SNP_96014_A_20163	NW_004516648.1	scaffold1447	20163	TT	GG	GG	INTERGENIC			
SNP_96015_A_20164	NW_004516648.1	scaffold1447	20164	TT	AA	AA	INTERGENIC			
SNP_96016_A_20366	NW_004516648.1	scaffold1447	20366	TT	CC	CC	INTERGENIC			
SNP_96017_A_20418	NW_004516648.1	scaffold1447	20418	AA	GG	GG	INTERGENIC			
SNP_96018_A_20423	NW_004516648.1	scaffold1447	20423	CC	TT	TT	INTERGENIC			
SNP_96019_A_20438	NW_004516648.1	scaffold1447	20438	TT	CC	CC	INTERGENIC			
SNP_96020_A_20439	NW_004516648.1	scaffold1447	20439	CC	TT	TT	INTERGENIC			
SNP_96021_A_20450	NW_004516648.1	scaffold1447	20450	GG	TT	TT	INTERGENIC			
SNP_96022_A_21271	NW_004516648.1	scaffold1447	21271	TT	CC	CC	INTERGENIC			
SNP_96023_A_21615	NW_004516648.1	scaffold1447	21615	GG	TT	TT	INTERGENIC			
SNP_96024_A_21660	NW_004516648.1	scaffold1447	21660	TT	AA	AA	INTERGENIC			
SNP_96025_A_21684	NW_004516648.1	scaffold1447	21684	TT	CC	CC	INTERGENIC			
SNP_96027_A_24328	NW_004516648.1	scaffold1447	24328	TT	GG	GG	INTERGENIC			
SNP_96028_A_24370	NW_004516648.1	scaffold1447	24370	CC	TT	TT	INTERGENIC			
SNP_96029_A_24371	NW_004516648.1	scaffold1447	24371	AA	GG	GG	INTERGENIC			
SNP_96030_A_24635	NW_004516648.1	scaffold1447	24635	TT	CC	CC	INTERGENIC			
SNP_96031_A_24663	NW_004516648.1	scaffold1447	24663	AA	CC	CC	INTERGENIC			
SNP_96033_A_24684	NW_004516648.1	scaffold1447	24684	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96034_A_24780	NW_004516648.1	scaffold1447	24780	GG	AA	AA	INTERGENIC		
SNP_96035_A_26280	NW_004516648.1	scaffold1447	26280	AA	TT	TT	INTERGENIC		
SNP_96036_A_26295	NW_004516648.1	scaffold1447	26295	GG	AA	AA	INTERGENIC		
SNP_96037_A_30861	NW_004516648.1	scaffold1447	30861	GG	CC	CC	INTERGENIC		
SNP_96038_A_30872	NW_004516648.1	scaffold1447	30872	TT	AA	AA	INTERGENIC		
SNP_96039_A_30879	NW_004516648.1	scaffold1447	30879	CC	TT	TT	INTERGENIC		
SNP_96040_A_30937	NW_004516648.1	scaffold1447	30937	GG	TT	TT	INTERGENIC		
SNP_96041_A_30964	NW_004516648.1	scaffold1447	30964	CC	TT	TT	INTERGENIC		
SNP_96042_A_43349	NW_004516648.1	scaffold1447	43349	CC	TT	TT	INTERGENIC		
SNP_96043_A_585	NW_004516649.1	scaffold1448	585	TT	GG	GG	INTERGENIC		
SNP_96044_A_650	NW_004516649.1	scaffold1448	650	GG	AA	AA	INTERGENIC		
SNP_96045_A_861	NW_004516649.1	scaffold1448	861	GG	AA	AA	INTERGENIC		
SNP_96046_A_5793	NW_004516649.1	scaffold1448	5793	CC	AA	AA	INTERGENIC		
SNP_96048_A_12043	NW_004516649.1	scaffold1448	12043	TT	GG	GG	INTERGENIC		
SNP_96049_A_20646	NW_004516649.1	scaffold1448	20646	GG	AA	AA	INTRON	101506404	Unknown function
SNP_96050_A_20685	NW_004516649.1	scaffold1448	20685	TT	CC	CC	INTRON	101506404	Unknown function
SNP_96051_A_20698	NW_004516649.1	scaffold1448	20698	CC	AA	AA	INTRON	101506404	Unknown function
SNP_96052_A_20706	NW_004516649.1	scaffold1448	20706	AA	GG	GG	INTRON	101506404	Unknown function
SNP_96053_A_20749	NW_004516649.1	scaffold1448	20749	TT	CC	CC	INTRON	101506404	Unknown function
SNP_96054_A_20751	NW_004516649.1	scaffold1448	20751	TT	GG	GG	INTRON	101506404	Unknown function
SNP_96055_A_20990	NW_004516649.1	scaffold1448	20990	AA	GG	GG	INTRON	101506404	Unknown function
SNP_96056_A_21025	NW_004516649.1	scaffold1448	21025	AA	CC	CC	INTRON	101506404	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96057_A_21034	NW_004516649.1	scaffold1448	21034	GG	TT	TT	INTRON	101506404	Unknown function
SNP_96058_A_21039	NW_004516649.1	scaffold1448	21039	AA	GG	GG	INTRON	101506404	Unknown function
SNP_96059_A_30131	NW_004516649.1	scaffold1448	30131	CC	AA	AA	INTERGENIC		
SNP_96060_A_32834	NW_004516649.1	scaffold1448	32834	AA	TT	TT	INTERGENIC		
SNP_96062_A_38631	NW_004516649.1	scaffold1448	38631	CC	TT	TT	INTERGENIC		
SNP_96063_A_40798	NW_004516649.1	scaffold1448	40798	CC	AA	AA	INTERGENIC		
SNP_96064_A_41006	NW_004516649.1	scaffold1448	41006	TT	CC	CC	INTERGENIC		
SNP_96065_A_42593	NW_004516649.1	scaffold1448	42593	AA	TT	TT	INTERGENIC		
SNP_96066_A_52265	NW_004516649.1	scaffold1448	52265	CC	GG	GG	INTRON	101505659	exportin-7-like
SNP_96067_A_52267	NW_004516649.1	scaffold1448	52267	AA	GG	GG	INTRON	101505659	exportin-7-like
SNP_96068_A_67438	NW_004516649.1	scaffold1448	67438	AA	TT	TT	INTRON	101505659	exportin-7-like
SNP_96069_A_70808	NW_004516649.1	scaffold1448	70808	GG	AA	AA	INTRON	101505659	exportin-7-like
SNP_96070_A_79659	NW_004516649.1	scaffold1448	79659	TT	CC	CC	INTERGENIC		
SNP_96071_A_79663	NW_004516649.1	scaffold1448	79663	CC	AA	AA	INTERGENIC		
SNP_96072_A_80510	NW_004516649.1	scaffold1448	80510	AA	GG	GG	INTERGENIC		
SNP_96073_A_90092	NW_004516649.1	scaffold1448	90092	GG	CC	CC	INTRON	101505659	exportin-7-like
SNP_96074_A_90100	NW_004516649.1	scaffold1448	90100	AA	GG	GG	INTRON	101505659	exportin-7-like
SNP_96075_A_90120	NW_004516649.1	scaffold1448	90120	TT	CC	CC	INTRON	101505659	exportin-7-like
SNP_96076_A_90179	NW_004516649.1	scaffold1448	90179	GG	AA	AA	INTRON	101505659	exportin-7-like
SNP_96077_A_90180	NW_004516649.1	scaffold1448	90180	TT	AA	AA	INTRON	101505659	exportin-7-like
SNP_96078_A_90197	NW_004516649.1	scaffold1448	90197	AA	GG	GG	INTRON	101505659	exportin-7-like
SNP_96079_A_90322	NW_004516649.1	scaffold1448	90322	GG	AA	AA	INTRON	101505659	exportin-7-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96080_A_90420	NW_004516649.1	scaffold1448	90420	GG	AA	AA	INTRON	101505659	exportin-7-like
SNP_96081_A_90467	NW_004516649.1	scaffold1448	90467	GG	CC	CC	INTRON	101505659	exportin-7-like
SNP_96082_A_90509	NW_004516649.1	scaffold1448	90509	AA	GG	GG	INTRON	101505659	exportin-7-like
SNP_96083_A_92400	NW_004516649.1	scaffold1448	92400	TT	AA	AA	URR	101505659	exportin-7-like
SNP_96085_A_102110	NW_004516649.1	scaffold1448	102110	TT	AA	AA	INTERGENIC		
SNP_96086_A_103393	NW_004516649.1	scaffold1448	103393	CC	TT	TT	INTERGENIC		
SNP_96087_A_109285	NW_004516649.1	scaffold1448	109285	GG	AA	AA	INTERGENIC		
SNP_96088_A_109340	NW_004516649.1	scaffold1448	109340	GG	AA	AA	INTERGENIC		
SNP_96089_A_109419	NW_004516649.1	scaffold1448	109419	AA	GG	GG	INTERGENIC		
SNP_96090_A_113511	NW_004516649.1	scaffold1448	113511	AA	GG	GG	INTERGENIC		
SNP_96091_A_119438	NW_004516649.1	scaffold1448	119438	AA	GG	GG	INTERGENIC		
SNP_96093_A_142306	NW_004516649.1	scaffold1448	142306	TT	CC	CC	INTERGENIC		
SNP_96094_A_144081	NW_004516649.1	scaffold1448	144081	AA	GG	GG	INTERGENIC		
SNP_96095_A_148115	NW_004516649.1	scaffold1448	148115	AA	GG	GG	INTERGENIC		
SNP_96096_A_150687	NW_004516649.1	scaffold1448	150687	GG	AA	AA	INTERGENIC		
SNP_96097_A_3377	NW_004516650.1	scaffold1449	3377	CC	AA	AA	INTERGENIC		
SNP_96098_A_3494	NW_004516650.1	scaffold1449	3494	AA	GG	GG	INTERGENIC		
SNP_96099_A_3530	NW_004516650.1	scaffold1449	3530	TT	CC	CC	INTERGENIC		
SNP_96100_A_3537	NW_004516650.1	scaffold1449	3537	CC	GG	GG	INTERGENIC		
SNP_96101_A_3538	NW_004516650.1	scaffold1449	3538	GG	TT	TT	INTERGENIC		
SNP_96102_A_3558	NW_004516650.1	scaffold1449	3558	AA	TT	TT	INTERGENIC		
SNP_96103_A_3559	NW_004516650.1	scaffold1449	3559	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96104_A_3572	NW_004516650.1	scaffold1449	3572	CC	TT	TT	INTERGENIC			
SNP_96105_A_3573	NW_004516650.1	scaffold1449	3573	TT	CC	CC	INTERGENIC			
SNP_96107_A_6752	NW_004516650.1	scaffold1449	6752	TT	CC	CC	INTERGENIC			
SNP_96108_A_6765	NW_004516650.1	scaffold1449	6765	CC	GG	GG	INTERGENIC			
SNP_96109_A_6844	NW_004516650.1	scaffold1449	6844	AA	GG	GG	INTERGENIC			
SNP_96110_A_7252	NW_004516650.1	scaffold1449	7252	TT	CC	CC	INTERGENIC			
SNP_96111_A_7581	NW_004516650.1	scaffold1449	7581	AA	CC	CC	INTERGENIC			
SNP_96112_A_7638	NW_004516650.1	scaffold1449	7638	GG	AA	AA	INTERGENIC			
SNP_96113_A_7668	NW_004516650.1	scaffold1449	7668	GG	TT	TT	INTERGENIC			
SNP_96114_A_10864	NW_004516650.1	scaffold1449	10864	TT	CC	CC	INTERGENIC			
SNP_96115_A_11307	NW_004516650.1	scaffold1449	11307	TT	CC	CC	INTERGENIC			
SNP_96116_A_13482	NW_004516650.1	scaffold1449	13482	AA	GG	GG	INTERGENIC			
SNP_96117_A_19493	NW_004516650.1	scaffold1449	19493	TT	CC	CC	INTERGENIC			
SNP_96118_A_19528	NW_004516650.1	scaffold1449	19528	GG	TT	TT	INTERGENIC			
SNP_96120_A_47982	NW_004516650.1	scaffold1449	47982	TT	CC	CC	INTERGENIC			
SNP_96121_A_44412	NW_004516651.1	scaffold1450	44412	CC	TT	TT	INTERGENIC			
SNP_96122_A_71870	NW_004516651.1	scaffold1450	71870	GG	AA	AA	INTERGENIC			
SNP_96123_A_71932	NW_004516651.1	scaffold1450	71932	TT	CC	CC	INTERGENIC			
SNP_96124_A_880	NW_004516653.1	scaffold1452	880	AA	TT	TT	INTERGENIC			
SNP_96126_A_6389	NW_004516653.1	scaffold1452	6389	GG	AA	AA	INTERGENIC			
SNP_96127_A_8057	NW_004516653.1	scaffold1452	8057	GG	AA	AA	INTERGENIC			
SNP_96130_A_29820	NW_004516653.1	scaffold1452	29820	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96131_A_29854	NW_004516653.1	scaffold1452	29854	TT	AA	AA	INTERGENIC			
SNP_96132_A_29871	NW_004516653.1	scaffold1452	29871	AA	TT	TT	INTERGENIC			
SNP_96133_A_30013	NW_004516653.1	scaffold1452	30013	CC	AA	AA	INTERGENIC			
SNP_96134_A_30034	NW_004516653.1	scaffold1452	30034	TT	GG	GG	INTERGENIC			
SNP_96135_A_30167	NW_004516653.1	scaffold1452	30167	TT	AA	AA	INTERGENIC			
SNP_96136_A_30196	NW_004516653.1	scaffold1452	30196	AA	CC	CC	INTERGENIC			
SNP_96137_A_30205	NW_004516653.1	scaffold1452	30205	CC	TT	TT	INTERGENIC			
SNP_96139_A_30221	NW_004516653.1	scaffold1452	30221	CC	AA	AA	INTERGENIC			
SNP_96140_A_30289	NW_004516653.1	scaffold1452	30289	GG	TT	TT	INTERGENIC			
SNP_96141_A_30293	NW_004516653.1	scaffold1452	30293	GG	TT	TT	INTERGENIC			
SNP_96142_A_30349	NW_004516653.1	scaffold1452	30349	CC	GG	GG	INTERGENIC			
SNP_96143_A_30386	NW_004516653.1	scaffold1452	30386	TT	GG	GG	INTERGENIC			
SNP_96144_A_30390	NW_004516653.1	scaffold1452	30390	AA	TT	TT	INTERGENIC			
SNP_96145_A_30414	NW_004516653.1	scaffold1452	30414	CC	AA	AA	INTERGENIC			
SNP_96146_A_30422	NW_004516653.1	scaffold1452	30422	TT	GG	GG	INTERGENIC			
SNP_96147_A_30481	NW_004516653.1	scaffold1452	30481	GG	AA	AA	INTERGENIC			
SNP_96148_A_30487	NW_004516653.1	scaffold1452	30487	GG	TT	TT	INTERGENIC			
SNP_96149_A_30490	NW_004516653.1	scaffold1452	30490	AA	CC	CC	INTERGENIC			
SNP_96151_A_34434	NW_004516653.1	scaffold1452	34434	GG	AA	AA	INTERGENIC			
SNP_96152_A_414	NW_004516654.1	scaffold1453	414	GG	CC	CC	INTERGENIC			
SNP_96153_A_519	NW_004516654.1	scaffold1453	519	AA	GG	GG	INTERGENIC			
SNP_96154_A_574	NW_004516654.1	scaffold1453	574	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96155_A_816	NW_004516654.1	scaffold1453	816	CC	TT	TT	INTERGENIC			
SNP_96156_A_42284	NW_004516654.1	scaffold1453	42284	AA	CC	CC	INTERGENIC			
SNP_96157_A_52276	NW_004516654.1	scaffold1453	52276	TT	AA	AA	INTERGENIC			
SNP_96158_A_93594	NW_004516654.1	scaffold1453	93594	AA	TT	TT	INTERGENIC			
SNP_96159_A_99040	NW_004516654.1	scaffold1453	99040	CC	TT	TT	INTERGENIC			
SNP_96160_A_99041	NW_004516654.1	scaffold1453	99041	CC	AA	AA	INTERGENIC			
SNP_96161_A_106710	NW_004516654.1	scaffold1453	106710	TT	GG	GG	INTERGENIC			
SNP_96162_A_108784	NW_004516654.1	scaffold1453	108784	CC	TT	TT	INTERGENIC			
SNP_96163_A_108788	NW_004516654.1	scaffold1453	108788	AA	GG	GG	INTERGENIC			
SNP_96164_A_108807	NW_004516654.1	scaffold1453	108807	CC	GG	GG	INTERGENIC			
SNP_96165_A_108834	NW_004516654.1	scaffold1453	108834	AA	GG	GG	INTERGENIC			
SNP_96166_A_108865	NW_004516654.1	scaffold1453	108865	AA	GG	GG	INTERGENIC			
SNP_96167_A_108904	NW_004516654.1	scaffold1453	108904	AA	GG	GG	INTERGENIC			
SNP_96168_A_108926	NW_004516654.1	scaffold1453	108926	CC	TT	TT	INTERGENIC			
SNP_96169_A_108943	NW_004516654.1	scaffold1453	108943	GG	AA	AA	INTERGENIC			
SNP_96170_A_109079	NW_004516654.1	scaffold1453	109079	CC	TT	TT	INTERGENIC			
SNP_96171_A_109085	NW_004516654.1	scaffold1453	109085	TT	AA	AA	INTERGENIC			
SNP_96172_A_109106	NW_004516654.1	scaffold1453	109106	TT	CC	CC	INTERGENIC			
SNP_96173_A_109134	NW_004516654.1	scaffold1453	109134	GG	TT	TT	INTERGENIC			
SNP_96174_A_109135	NW_004516654.1	scaffold1453	109135	GG	CC	CC	INTERGENIC			
SNP_96175_A_109214	NW_004516654.1	scaffold1453	109214	CC	GG	GG	INTERGENIC			
SNP_96176_A_109222	NW_004516654.1	scaffold1453	109222	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96177_A_109297	NW_004516654.1	scaffold1453	109297	CC	AA	AA	INTERGENIC			
SNP_96178_A_109307	NW_004516654.1	scaffold1453	109307	AA	CC	CC	INTERGENIC			
SNP_96179_A_6128	NW_004516655.1	scaffold1455	6128	GG	CC	CC	INTERGENIC			
SNP_96180_A_6891	NW_004516655.1	scaffold1455	6891	GG	AA	AA	INTERGENIC			
SNP_96181_A_7015	NW_004516655.1	scaffold1455	7015	TT	AA	AA	INTERGENIC			
SNP_96182_A_7075	NW_004516655.1	scaffold1455	7075	AA	GG	GG	INTERGENIC			
SNP_96183_A_7116	NW_004516655.1	scaffold1455	7116	TT	AA	AA	INTERGENIC			
SNP_96184_A_7133	NW_004516655.1	scaffold1455	7133	GG	AA	AA	INTERGENIC			
SNP_96185_A_7134	NW_004516655.1	scaffold1455	7134	AA	CC	CC	INTERGENIC			
SNP_96186_A_7162	NW_004516655.1	scaffold1455	7162	TT	CC	CC	INTERGENIC			
SNP_96187_A_7384	NW_004516655.1	scaffold1455	7384	CC	TT	TT	INTERGENIC			
SNP_96188_A_11106	NW_004516655.1	scaffold1455	11106	AA	GG	GG	INTERGENIC			
SNP_96189_A_11129	NW_004516655.1	scaffold1455	11129	TT	CC	CC	INTERGENIC			
SNP_96190_A_11252	NW_004516655.1	scaffold1455	11252	AA	TT	TT	INTERGENIC			
SNP_96191_A_11414	NW_004516655.1	scaffold1455	11414	GG	AA	AA	INTERGENIC			
SNP_96192_A_11459	NW_004516655.1	scaffold1455	11459	TT	GG	GG	INTERGENIC			
SNP_96193_A_11734	NW_004516655.1	scaffold1455	11734	CC	TT	TT	INTERGENIC			
SNP_96194_A_11790	NW_004516655.1	scaffold1455	11790	CC	TT	TT	INTERGENIC			
SNP_96195_A_12403	NW_004516655.1	scaffold1455	12403	AA	GG	GG	INTERGENIC			
SNP_96196_A_12411	NW_004516655.1	scaffold1455	12411	TT	AA	AA	INTERGENIC			
SNP_96197_A_12495	NW_004516655.1	scaffold1455	12495	AA	CC	CC	INTERGENIC			
SNP_96199_A_12662	NW_004516655.1	scaffold1455	12662	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96200_A_12813	NW_004516655.1	scaffold1455	12813	GG	AA	AA	INTERGENIC			
SNP_96201_A_12908	NW_004516655.1	scaffold1455	12908	AA	CC	CC	INTERGENIC			
SNP_96202_A_13196	NW_004516655.1	scaffold1455	13196	AA	CC	CC	INTERGENIC			
SNP_96203_A_13238	NW_004516655.1	scaffold1455	13238	CC	TT	TT	INTERGENIC			
SNP_96204_A_13724	NW_004516655.1	scaffold1455	13724	TT	CC	CC	INTERGENIC			
SNP_96205_A_13813	NW_004516655.1	scaffold1455	13813	CC	GG	GG	INTERGENIC			
SNP_96206_A_14570	NW_004516655.1	scaffold1455	14570	GG	TT	TT	INTERGENIC			
SNP_96207_A_14581	NW_004516655.1	scaffold1455	14581	AA	CC	CC	INTERGENIC			
SNP_96208_A_14583	NW_004516655.1	scaffold1455	14583	GG	AA	AA	INTERGENIC			
SNP_96209_A_14612	NW_004516655.1	scaffold1455	14612	GG	AA	AA	INTERGENIC			
SNP_96210_A_14629	NW_004516655.1	scaffold1455	14629	GG	AA	AA	INTERGENIC			
SNP_96211_A_14633	NW_004516655.1	scaffold1455	14633	AA	TT	TT	INTERGENIC			
SNP_96212_A_14968	NW_004516655.1	scaffold1455	14968	AA	GG	GG	INTERGENIC			
SNP_96213_A_14971	NW_004516655.1	scaffold1455	14971	AA	GG	GG	INTERGENIC			
SNP_96214_A_15062	NW_004516655.1	scaffold1455	15062	GG	CC	CC	INTERGENIC			
SNP_96215_A_16202	NW_004516655.1	scaffold1455	16202	GG	AA	AA	INTERGENIC			
SNP_96216_A_16503	NW_004516655.1	scaffold1455	16503	TT	CC	CC	INTERGENIC			
SNP_96217_A_18310	NW_004516655.1	scaffold1455	18310	AA	TT	TT	INTERGENIC			
SNP_96218_A_18320	NW_004516655.1	scaffold1455	18320	TT	CC	CC	INTERGENIC			
SNP_96219_A_18515	NW_004516655.1	scaffold1455	18515	TT	AA	AA	INTERGENIC			
SNP_96220_A_18652	NW_004516655.1	scaffold1455	18652	TT	GG	GG	INTERGENIC			
SNP_96221_A_18655	NW_004516655.1	scaffold1455	18655	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96222_A_19070	NW_004516655.1	scaffold1455	19070	GG	AA	AA	INTERGENIC		
SNP_96224_A_21093	NW_004516655.1	scaffold1455	21093	AA	GG	GG	INTERGENIC		
SNP_96225_A_21151	NW_004516655.1	scaffold1455	21151	TT	AA	AA	INTERGENIC		
SNP_96226_A_21495	NW_004516655.1	scaffold1455	21495	CC	TT	TT	INTERGENIC		
SNP_96227_A_42388	NW_004516655.1	scaffold1455	42388	TT	GG	GG	INTERGENIC		
SNP_96228_A_19492	NW_004516657.1	scaffold1457	19492	CC	GG	GG	INTERGENIC		
SNP_96229_A_19500	NW_004516657.1	scaffold1457	19500	GG	TT	TT	INTERGENIC		
SNP_96231_A_34301	NW_004516657.1	scaffold1457	34301	TT	CC	CC	INTERGENIC		
SNP_96232_A_68576	NW_004516657.1	scaffold1457	68576	AA	CC	CC	INTERGENIC		
SNP_96233_A_68626	NW_004516657.1	scaffold1457	68626	AA	GG	GG	INTERGENIC		
SNP_96234_A_935	NW_004516659.1	scaffold1459	935	TT	CC	CC	INTERGENIC		
SNP_96235_A_1158	NW_004516659.1	scaffold1459	1158	GG	TT	TT	INTERGENIC		
SNP_96236_A_5511	NW_004516659.1	scaffold1459	5511	GG	AA	AA	STOP_GAINED	101507699	uncharacterized LOC101507699
SNP_96237_A_8699	NW_004516659.1	scaffold1459	8699	TT	AA	AA	NON_SYNONYMOUS_CODING	101507699	uncharacterized LOC101507699
SNP_96238_A_8731	NW_004516659.1	scaffold1459	8731	GG	AA	AA	SYNONYMOUS_CODING	101507699	uncharacterized LOC101507699
SNP_96239_A_8772	NW_004516659.1	scaffold1459	8772	TT	GG	GG	URR	101507699	uncharacterized LOC101507699
SNP_96240_A_7629	NW_004516661.1	scaffold1461	7629	AA	GG	GG	INTERGENIC		
SNP_96241_A_13019	NW_004516661.1	scaffold1461	13019	GG	AA	AA	INTERGENIC		
SNP_96242_A_13164	NW_004516661.1	scaffold1461	13164	CC	GG	GG	INTERGENIC		
SNP_96243_A_7667	NW_004516662.1	scaffold1462	7667	GG	TT	TT	INTERGENIC		
SNP_96244_A_12085	NW_004516662.1	scaffold1462	12085	CC	TT	TT	INTERGENIC		
SNP_96245_A_12174	NW_004516662.1	scaffold1462	12174	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96246_A_12192	NW_004516662.1	scaffold1462	12192	CC	TT	TT	INTERGENIC			
SNP_96247_A_12199	NW_004516662.1	scaffold1462	12199	TT	CC	CC	INTERGENIC			
SNP_96249_A_12477	NW_004516662.1	scaffold1462	12477	AA	TT	TT	INTERGENIC			
SNP_96250_A_12719	NW_004516662.1	scaffold1462	12719	CC	TT	TT	INTERGENIC			
SNP_96251_A_12893	NW_004516662.1	scaffold1462	12893	AA	TT	TT	INTERGENIC			
SNP_96253_A_14748	NW_004516662.1	scaffold1462	14748	AA	GG	GG	INTERGENIC			
SNP_96254_A_14749	NW_004516662.1	scaffold1462	14749	TT	CC	CC	INTERGENIC			
SNP_96255_A_15068	NW_004516662.1	scaffold1462	15068	GG	TT	TT	INTERGENIC			
SNP_96256_A_15081	NW_004516662.1	scaffold1462	15081	TT	GG	GG	INTERGENIC			
SNP_96257_A_15896	NW_004516662.1	scaffold1462	15896	TT	AA	AA	INTERGENIC			
SNP_96258_A_12717	NW_004516663.1	scaffold1464	12717	GG	AA	AA	INTERGENIC			
SNP_96259_A_15032	NW_004516663.1	scaffold1464	15032	GG	AA	AA	INTERGENIC			
SNP_96260_A_15080	NW_004516663.1	scaffold1464	15080	AA	GG	GG	INTERGENIC			
SNP_96261_A_28029	NW_004516663.1	scaffold1464	28029	AA	GG	GG	INTERGENIC			
SNP_96262_A_69799	NW_004516663.1	scaffold1464	69799	TT	AA	AA	INTERGENIC			
SNP_96263_A_69835	NW_004516663.1	scaffold1464	69835	GG	AA	AA	INTERGENIC			
SNP_96264_A_69873	NW_004516663.1	scaffold1464	69873	AA	CC	CC	INTERGENIC			
SNP_96265_A_69894	NW_004516663.1	scaffold1464	69894	CC	GG	GG	INTERGENIC			
SNP_96266_A_69992	NW_004516663.1	scaffold1464	69992	AA	GG	GG	INTERGENIC			
SNP_96267_A_70236	NW_004516663.1	scaffold1464	70236	CC	TT	TT	INTERGENIC			
SNP_96268_A_70240	NW_004516663.1	scaffold1464	70240	TT	AA	AA	INTERGENIC			
SNP_96269_A_70310	NW_004516663.1	scaffold1464	70310	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96270_A_79091	NW_004516663.1	scaffold1464	79091	GG	TT	TT	INTERGENIC			
SNP_96271_A_89961	NW_004516663.1	scaffold1464	89961	TT	CC	CC	INTERGENIC			
SNP_96272_A_90017	NW_004516663.1	scaffold1464	90017	GG	AA	AA	INTERGENIC			
SNP_96273_A_2646	NW_004516664.1	scaffold1465	2646	AA	TT	TT	INTERGENIC			
SNP_96275_A_4693	NW_004516664.1	scaffold1465	4693	AA	TT	TT	INTERGENIC			
SNP_96277_A_12140	NW_004516664.1	scaffold1465	12140	AA	TT	TT	INTERGENIC			
SNP_96278_A_12668	NW_004516664.1	scaffold1465	12668	GG	AA	AA	INTERGENIC			
SNP_96280_A_20330	NW_004516664.1	scaffold1465	20330	TT	CC	CC	INTERGENIC			
SNP_96282_A_22550	NW_004516664.1	scaffold1465	22550	CC	TT	TT	INTERGENIC			
SNP_96283_A_22571	NW_004516664.1	scaffold1465	22571	CC	GG	GG	INTERGENIC			
SNP_96284_A_22577	NW_004516664.1	scaffold1465	22577	AA	TT	TT	INTERGENIC			
SNP_96285_A_22814	NW_004516664.1	scaffold1465	22814	AA	GG	GG	INTERGENIC			
SNP_96286_A_36619	NW_004516664.1	scaffold1465	36619	CC	TT	TT	INTERGENIC			
SNP_96288_A_40468	NW_004516665.1	scaffold1466	40468	CC	TT	TT	INTERGENIC			
SNP_96289_A_71449	NW_004516665.1	scaffold1466	71449	TT	GG	GG	INTERGENIC			
SNP_96290_A_178769	NW_004516665.1	scaffold1466	178769	GG	TT	TT	INTERGENIC			
SNP_96292_A_239648	NW_004516665.1	scaffold1466	239648	TT	AA	AA	INTERGENIC			
SNP_96293_A_284574	NW_004516665.1	scaffold1466	284574	CC	TT	TT	NON_SYNONYMOUS_CODING	101515101	Unknown function	
SNP_96294_A_311987	NW_004516665.1	scaffold1466	311987	AA	GG	GG	INTERGENIC			
SNP_96295_A_321600	NW_004516665.1	scaffold1466	321600	GG	TT	TT	INTERGENIC			
SNP_96296_A_323421	NW_004516665.1	scaffold1466	323421	TT	GG	GG	INTERGENIC			
SNP_96297_A_328634	NW_004516665.1	scaffold1466	328634	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96298_A_347238	NW_004516665.1	scaffold1466	347238	CC	TT	TT	INTERGENIC		
SNP_96299_A_350924	NW_004516665.1	scaffold1466	350924	GG	AA	AA	INTERGENIC		
SNP_96300_A_358112	NW_004516665.1	scaffold1466	358112	GG	AA	AA	URR	101488515	uncharacterized LOC101488515
SNP_96301_A_358205	NW_004516665.1	scaffold1466	358205	TT	CC	CC	URR	101488515	uncharacterized LOC101488515
SNP_96302_A_358458	NW_004516665.1	scaffold1466	358458	TT	CC	CC	URR	101488515	uncharacterized LOC101488515
SNP_96303_A_358484	NW_004516665.1	scaffold1466	358484	AA	GG	GG	URR	101488515	uncharacterized LOC101488515
SNP_96304_A_3216	NW_004516666.1	scaffold1467	3216	CC	TT	TT	DRR	101489185	uncharacterized LOC101489185
SNP_96305_A_8723	NW_004516666.1	scaffold1467	8723	AA	TT	TT	INTERGENIC		
SNP_96307_A_11974	NW_004516666.1	scaffold1467	11974	AA	GG	GG	DRR	101489405	cytochrome P450 83B1-like
SNP_96309_A_22476	NW_004516666.1	scaffold1467	22476	TT	CC	CC	INTERGENIC		
SNP_96310_A_22480	NW_004516666.1	scaffold1467	22480	TT	GG	GG	INTERGENIC		
SNP_96311_A_22481	NW_004516666.1	scaffold1467	22481	GG	TT	TT	INTERGENIC		
SNP_96312_A_23806	NW_004516666.1	scaffold1467	23806	AA	TT	TT	INTERGENIC		
SNP_96314_A_91880	NW_004516666.1	scaffold1467	91880	CC	TT	TT	INTERGENIC		
SNP_96315_A_92235	NW_004516666.1	scaffold1467	92235	TT	GG	GG	INTERGENIC		
SNP_96316_A_202735	NW_004516666.1	scaffold1467	202735	TT	CC	CC	INTERGENIC		
SNP_96317_A_202757	NW_004516666.1	scaffold1467	202757	GG	AA	AA	INTERGENIC		
SNP_96318_A_206307	NW_004516666.1	scaffold1467	206307	GG	AA	AA	INTERGENIC		
SNP_96319_A_3734	NW_004516667.1	scaffold1468	3734	GG	CC	CC	INTERGENIC		
SNP_96320_A_4037	NW_004516667.1	scaffold1468	4037	GG	TT	TT	INTERGENIC		
SNP_96321_A_2253	NW_004516669.1	scaffold1472	2253	TT	CC	CC	INTERGENIC		
SNP_96322_A_2063	NW_004516670.1	scaffold1473	2063	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96323_A_2168	NW_004516670.1	scaffold1473	2168	CC	TT	TT	INTERGENIC		
SNP_96324_A_2230	NW_004516670.1	scaffold1473	2230	CC	TT	TT	INTERGENIC		
SNP_96325_A_2255	NW_004516670.1	scaffold1473	2255	GG	AA	AA	INTERGENIC		
SNP_96326_A_2347	NW_004516670.1	scaffold1473	2347	TT	GG	GG	INTERGENIC		
SNP_96327_A_2590	NW_004516670.1	scaffold1473	2590	TT	AA	AA	INTERGENIC		
SNP_96328_A_2737	NW_004516670.1	scaffold1473	2737	AA	GG	GG	INTERGENIC		
SNP_96329_A_2924	NW_004516670.1	scaffold1473	2924	AA	GG	GG	INTERGENIC		
SNP_96330_A_3047	NW_004516670.1	scaffold1473	3047	TT	CC	CC	INTERGENIC		
SNP_96331_A_3060	NW_004516670.1	scaffold1473	3060	GG	AA	AA	INTERGENIC		
SNP_96332_A_69084	NW_004516671.1	scaffold1475	69084	AA	GG	GG	INTRON	101492305	uncharacterized LOC101492305
SNP_96333_A_99384	NW_004516671.1	scaffold1475	99384	CC	TT	TT	INTERGENIC		
SNP_96334_A_99630	NW_004516671.1	scaffold1475	99630	AA	GG	GG	INTERGENIC		
SNP_96335_A_99632	NW_004516671.1	scaffold1475	99632	TT	CC	CC	INTERGENIC		
SNP_96336_A_99658	NW_004516671.1	scaffold1475	99658	TT	GG	GG	INTERGENIC		
SNP_96337_A_99723	NW_004516671.1	scaffold1475	99723	TT	CC	CC	INTERGENIC		
SNP_96338_A_99733	NW_004516671.1	scaffold1475	99733	AA	GG	GG	INTERGENIC		
SNP_96339_A_899	NW_004516673.1	scaffold1477	899	TT	CC	CC	INTERGENIC		
SNP_96340_A_7515	NW_004516674.1	scaffold1478	7515	GG	AA	AA	INTERGENIC		
SNP_96341_A_8983	NW_004516674.1	scaffold1478	8983	TT	GG	GG	INTERGENIC		
SNP_96342_A_9033	NW_004516674.1	scaffold1478	9033	TT	CC	CC	INTERGENIC		
SNP_96343_A_9187	NW_004516674.1	scaffold1478	9187	TT	CC	CC	INTERGENIC		
SNP_96344_A_10912	NW_004516674.1	scaffold1478	10912	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96345_A_11118	NW_004516674.1	scaffold1478	11118	CC	TT	TT	INTERGENIC			
SNP_96346_A_11153	NW_004516674.1	scaffold1478	11153	AA	TT	TT	INTERGENIC			
SNP_96347_A_21378	NW_004516674.1	scaffold1478	21378	AA	TT	TT	INTERGENIC			
SNP_96348_A_21930	NW_004516674.1	scaffold1478	21930	CC	TT	TT	INTERGENIC			
SNP_96349_A_33845	NW_004516674.1	scaffold1478	33845	CC	AA	AA	INTERGENIC			
SNP_96350_A_45183	NW_004516674.1	scaffold1478	45183	TT	CC	CC	INTERGENIC			
SNP_96351_A_73500	NW_004516674.1	scaffold1478	73500	CC	AA	AA	INTERGENIC			
SNP_96352_A_73537	NW_004516674.1	scaffold1478	73537	TT	AA	AA	INTERGENIC			
SNP_96353_A_73539	NW_004516674.1	scaffold1478	73539	AA	CC	CC	INTERGENIC			
SNP_96354_A_73581	NW_004516674.1	scaffold1478	73581	GG	AA	AA	INTERGENIC			
SNP_96356_A_73797	NW_004516674.1	scaffold1478	73797	GG	AA	AA	INTERGENIC			
SNP_96357_A_73806	NW_004516674.1	scaffold1478	73806	GG	TT	TT	INTERGENIC			
SNP_96358_A_73866	NW_004516674.1	scaffold1478	73866	CC	TT	TT	INTERGENIC			
SNP_96359_A_92264	NW_004516674.1	scaffold1478	92264	CC	TT	TT	INTERGENIC			
SNP_96360_A_92265	NW_004516674.1	scaffold1478	92265	TT	CC	CC	INTERGENIC			
SNP_96361_A_2542	NW_004516675.1	scaffold1479	2542	TT	CC	CC	INTERGENIC			
SNP_96362_A_5716	NW_004516678.1	scaffold1483	5716	AA	GG	GG	INTERGENIC			
SNP_96363_A_5748	NW_004516678.1	scaffold1483	5748	TT	CC	CC	INTERGENIC			
SNP_96364_A_5984	NW_004516678.1	scaffold1483	5984	GG	AA	AA	INTERGENIC			
SNP_96365_A_6000	NW_004516678.1	scaffold1483	6000	CC	TT	TT	INTERGENIC			
SNP_96366_A_6016	NW_004516678.1	scaffold1483	6016	GG	TT	TT	INTERGENIC			
SNP_96367_A_6017	NW_004516678.1	scaffold1483	6017	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96368_A_6030	NW_004516678.1	scaffold1483	6030	CC	TT	TT	INTERGENIC		
SNP_96369_A_6085	NW_004516678.1	scaffold1483	6085	TT	GG	GG	INTERGENIC		
SNP_96370_A_6309	NW_004516678.1	scaffold1483	6309	GG	CC	CC	DRR	101494677	Unknown function
SNP_96371_A_6377	NW_004516678.1	scaffold1483	6377	AA	GG	GG	DRR	101494677	Unknown function
SNP_96372_A_6393	NW_004516678.1	scaffold1483	6393	AA	GG	GG	DRR	101494677	Unknown function
SNP_96373_A_6399	NW_004516678.1	scaffold1483	6399	GG	CC	CC	DRR	101494677	Unknown function
SNP_96374_A_6411	NW_004516678.1	scaffold1483	6411	CC	AA	AA	DRR	101494677	Unknown function
SNP_96376_A_6533	NW_004516678.1	scaffold1483	6533	CC	TT	TT	DRR	101494677	Unknown function
SNP_96377_A_6536	NW_004516678.1	scaffold1483	6536	GG	AA	AA	DRR	101494677	Unknown function
SNP_96378_A_6564	NW_004516678.1	scaffold1483	6564	GG	CC	CC	DRR	101494677	Unknown function
SNP_96379_A_6606	NW_004516678.1	scaffold1483	6606	GG	AA	AA	DRR	101494677	Unknown function
SNP_96380_A_6618	NW_004516678.1	scaffold1483	6618	TT	GG	GG	DRR	101494677	Unknown function
SNP_96381_A_6665	NW_004516678.1	scaffold1483	6665	AA	CC	CC	DRR	101494677	Unknown function
SNP_96382_A_6713	NW_004516678.1	scaffold1483	6713	CC	TT	TT	DRR	101494677	Unknown function
SNP_96383_A_6764	NW_004516678.1	scaffold1483	6764	TT	CC	CC	DRR	101494677	Unknown function
SNP_96384_A_6772	NW_004516678.1	scaffold1483	6772	CC	TT	TT	DRR	101494677	Unknown function
SNP_96385_A_6809	NW_004516678.1	scaffold1483	6809	TT	CC	CC	DRR	101494677	Unknown function
SNP_96386_A_6814	NW_004516678.1	scaffold1483	6814	TT	CC	CC	DRR	101494677	Unknown function
SNP_96387_A_6817	NW_004516678.1	scaffold1483	6817	AA	TT	TT	DRR	101494677	Unknown function
SNP_96389_A_6891	NW_004516678.1	scaffold1483	6891	TT	GG	GG	DRR	101494677	Unknown function
SNP_96390_A_6901	NW_004516678.1	scaffold1483	6901	AA	GG	GG	DRR	101494677	Unknown function
SNP_96391_A_6917	NW_004516678.1	scaffold1483	6917	AA	CC	CC	DRR	101494677	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96392_A_6930	NW_004516678.1	scaffold1483	6930	GG	CC	CC	DRR	101494677	Unknown function
SNP_96393_A_20437	NW_004516678.1	scaffold1483	20437	AA	TT	TT	INTERGENIC		
SNP_96395_A_54800	NW_004516678.1	scaffold1483	54800	AA	TT	TT	INTERGENIC		
SNP_96396_A_54848	NW_004516678.1	scaffold1483	54848	CC	TT	TT	INTERGENIC		
SNP_96397_A_55117	NW_004516678.1	scaffold1483	55117	TT	GG	GG	INTERGENIC		
SNP_96398_A_55122	NW_004516678.1	scaffold1483	55122	TT	CC	CC	INTERGENIC		
SNP_96399_A_56575	NW_004516678.1	scaffold1483	56575	AA	GG	GG	URR	101493627	probable serine/threonine-protein kinase WNK3
SNP_96400_A_57081	NW_004516678.1	scaffold1483	57081	AA	CC	CC	URR	101493627	probable serine/threonine-protein kinase WNK3
SNP_96402_A_69213	NW_004516678.1	scaffold1483	69213	AA	GG	GG	INTERGENIC		
SNP_96403_A_69313	NW_004516678.1	scaffold1483	69313	TT	AA	AA	INTERGENIC		
SNP_96404_A_69768	NW_004516678.1	scaffold1483	69768	AA	CC	CC	DRR	101492971	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_96405_A_69969	NW_004516678.1	scaffold1483	69969	GG	AA	AA	DRR	101492971	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_96406_A_70221	NW_004516678.1	scaffold1483	70221	GG	AA	AA	DRR	101492971	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_96408_A_40	NW_004516680.1	scaffold1486	40	TT	GG	GG	INTERGENIC		
SNP_96409_A_52	NW_004516680.1	scaffold1486	52	CC	AA	AA	INTERGENIC		
SNP_96410_A_240	NW_004516680.1	scaffold1486	240	TT	AA	AA	INTERGENIC		
SNP_96411_A_474	NW_004516680.1	scaffold1486	474	TT	AA	AA	INTERGENIC		
SNP_96412_A_341	NW_004516681.1	scaffold1488	341	AA	CC	CC	INTERGENIC		
SNP_96413_A_9231	NW_004516681.1	scaffold1488	9231	CC	AA	AA	INTERGENIC		
SNP_96414_A_9367	NW_004516681.1	scaffold1488	9367	AA	TT	TT	INTERGENIC		
SNP_96416_A_636	NW_004516683.1	scaffold1490	636	AA	TT	TT	INTERGENIC		
SNP_96417_A_638	NW_004516683.1	scaffold1490	638	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96418_A_650	NW_004516683.1	scaffold1490	650	GG	CC	CC	INTERGENIC			
SNP_96419_A_668	NW_004516683.1	scaffold1490	668	GG	CC	CC	INTERGENIC			
SNP_96420_A_687	NW_004516683.1	scaffold1490	687	TT	AA	AA	INTERGENIC			
SNP_96421_A_702	NW_004516683.1	scaffold1490	702	CC	AA	AA	INTERGENIC			
SNP_96422_A_730	NW_004516683.1	scaffold1490	730	CC	TT	TT	INTERGENIC			
SNP_96423_A_928	NW_004516683.1	scaffold1490	928	TT	GG	GG	INTERGENIC			
SNP_96424_A_938	NW_004516683.1	scaffold1490	938	CC	AA	AA	INTERGENIC			
SNP_96425_A_968	NW_004516683.1	scaffold1490	968	GG	AA	AA	INTERGENIC			
SNP_96426_A_973	NW_004516683.1	scaffold1490	973	CC	AA	AA	INTERGENIC			
SNP_96427_A_974	NW_004516683.1	scaffold1490	974	GG	AA	AA	INTERGENIC			
SNP_96428_A_1009	NW_004516683.1	scaffold1490	1009	GG	AA	AA	INTERGENIC			
SNP_96429_A_1048	NW_004516683.1	scaffold1490	1048	TT	CC	CC	INTERGENIC			
SNP_96430_A_1141	NW_004516683.1	scaffold1490	1141	AA	CC	CC	INTERGENIC			
SNP_96431_A_1151	NW_004516683.1	scaffold1490	1151	AA	GG	GG	INTERGENIC			
SNP_96432_A_1158	NW_004516683.1	scaffold1490	1158	GG	AA	AA	INTERGENIC			
SNP_96433_A_1229	NW_004516683.1	scaffold1490	1229	GG	CC	CC	INTERGENIC			
SNP_96435_A_1296	NW_004516683.1	scaffold1490	1296	TT	CC	CC	INTERGENIC			
SNP_96436_A_1431	NW_004516683.1	scaffold1490	1431	AA	TT	TT	INTERGENIC			
SNP_96437_A_1450	NW_004516683.1	scaffold1490	1450	AA	GG	GG	INTERGENIC			
SNP_96438_A_1461	NW_004516683.1	scaffold1490	1461	GG	AA	AA	INTERGENIC			
SNP_96439_A_9803	NW_004516683.1	scaffold1490	9803	GG	TT	TT	INTERGENIC			
SNP_96440_A_10831	NW_004516683.1	scaffold1490	10831	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96441_A_14257	NW_004516683.1	scaffold1490	14257	AA	CC	CC	INTERGENIC			
SNP_96442_A_14329	NW_004516683.1	scaffold1490	14329	GG	TT	TT	INTERGENIC			
SNP_96443_A_14336	NW_004516683.1	scaffold1490	14336	TT	GG	GG	INTERGENIC			
SNP_96444_A_14357	NW_004516683.1	scaffold1490	14357	AA	CC	CC	INTERGENIC			
SNP_96446_A_62551	NW_004516683.1	scaffold1490	62551	GG	TT	TT	INTERGENIC			
SNP_96447_A_62600	NW_004516683.1	scaffold1490	62600	AA	GG	GG	INTERGENIC			
SNP_96448_A_62605	NW_004516683.1	scaffold1490	62605	AA	GG	GG	INTERGENIC			
SNP_96449_A_66615	NW_004516683.1	scaffold1490	66615	AA	GG	GG	INTERGENIC			
SNP_96450_A_72930	NW_004516683.1	scaffold1490	72930	CC	TT	TT	INTERGENIC			
SNP_96451_A_73031	NW_004516683.1	scaffold1490	73031	TT	AA	AA	INTERGENIC			
SNP_96452_A_73690	NW_004516683.1	scaffold1490	73690	TT	CC	CC	INTERGENIC			
SNP_96453_A_73691	NW_004516683.1	scaffold1490	73691	CC	TT	TT	INTERGENIC			
SNP_96454_A_73971	NW_004516683.1	scaffold1490	73971	GG	AA	AA	INTERGENIC			
SNP_96455_A_74028	NW_004516683.1	scaffold1490	74028	TT	CC	CC	INTERGENIC			
SNP_96456_A_74168	NW_004516683.1	scaffold1490	74168	AA	GG	GG	INTERGENIC			
SNP_96457_A_74169	NW_004516683.1	scaffold1490	74169	AA	CC	CC	INTERGENIC			
SNP_96458_A_74312	NW_004516683.1	scaffold1490	74312	TT	AA	AA	INTERGENIC			
SNP_96459_A_74360	NW_004516683.1	scaffold1490	74360	TT	CC	CC	INTERGENIC			
SNP_96460_A_74446	NW_004516683.1	scaffold1490	74446	TT	CC	CC	INTERGENIC			
SNP_96461_A_74649	NW_004516683.1	scaffold1490	74649	AA	GG	GG	INTERGENIC			
SNP_96462_A_78035	NW_004516683.1	scaffold1490	78035	TT	CC	CC	INTERGENIC			
SNP_96463_A_78057	NW_004516683.1	scaffold1490	78057	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96464_A_78070	NW_004516683.1	scaffold1490	78070	TT	GG	GG	INTERGENIC		
SNP_96465_A_79586	NW_004516683.1	scaffold1490	79586	AA	GG	GG	INTERGENIC		
SNP_96466_A_79619	NW_004516683.1	scaffold1490	79619	AA	GG	GG	INTERGENIC		
SNP_96467_A_84101	NW_004516683.1	scaffold1490	84101	AA	CC	CC	URR	101496310	proteinase inhibitor PSI-1.2
SNP_96468_A_479	NW_004516684.1	scaffold1491	479	AA	CC	CC	INTERGENIC		
SNP_96469_A_571	NW_004516684.1	scaffold1491	571	TT	GG	GG	INTERGENIC		
SNP_96471_A_1669	NW_004516686.1	scaffold1493	1669	TT	GG	GG	INTERGENIC		
SNP_96472_A_2064	NW_004516686.1	scaffold1493	2064	AA	TT	TT	INTERGENIC		
SNP_96473_A_2174	NW_004516686.1	scaffold1493	2174	GG	AA	AA	INTERGENIC		
SNP_96474_A_2217	NW_004516686.1	scaffold1493	2217	CC	TT	TT	INTERGENIC		
SNP_96475_A_2349	NW_004516686.1	scaffold1493	2349	GG	AA	AA	INTERGENIC		
SNP_96476_A_2355	NW_004516686.1	scaffold1493	2355	AA	GG	GG	INTERGENIC		
SNP_96477_A_2484	NW_004516686.1	scaffold1493	2484	CC	AA	AA	INTERGENIC		
SNP_96478_A_2827	NW_004516686.1	scaffold1493	2827	GG	CC	CC	INTERGENIC		
SNP_96479_A_2843	NW_004516686.1	scaffold1493	2843	AA	GG	GG	INTERGENIC		
SNP_96480_A_3262	NW_004516686.1	scaffold1493	3262	CC	AA	AA	INTERGENIC		
SNP_96481_A_3363	NW_004516686.1	scaffold1493	3363	AA	GG	GG	INTERGENIC		
SNP_96482_A_3434	NW_004516686.1	scaffold1493	3434	AA	GG	GG	INTERGENIC		
SNP_96483_A_3609	NW_004516686.1	scaffold1493	3609	TT	AA	AA	INTERGENIC		
SNP_96484_A_5870	NW_004516686.1	scaffold1493	5870	TT	AA	AA	INTERGENIC		
SNP_96485_A_12722	NW_004516686.1	scaffold1493	12722	TT	AA	AA	INTERGENIC		
SNP_96486_A_12785	NW_004516686.1	scaffold1493	12785	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96487_A_12793	NW_004516686.1	scaffold1493	12793	AA	GG	GG	INTERGENIC			
SNP_96488_A_16385	NW_004516686.1	scaffold1493	16385	TT	CC	CC	INTERGENIC			
SNP_96489_A_24987	NW_004516686.1	scaffold1493	24987	TT	AA	AA	INTERGENIC			
SNP_96490_A_34739	NW_004516686.1	scaffold1493	34739	GG	AA	AA	INTERGENIC			
SNP_96491_A_34874	NW_004516686.1	scaffold1493	34874	CC	TT	TT	INTERGENIC			
SNP_96492_A_34897	NW_004516686.1	scaffold1493	34897	AA	GG	GG	INTERGENIC			
SNP_96493_A_34907	NW_004516686.1	scaffold1493	34907	GG	AA	AA	INTERGENIC			
SNP_96494_A_34913	NW_004516686.1	scaffold1493	34913	TT	CC	CC	INTERGENIC			
SNP_96495_A_34922	NW_004516686.1	scaffold1493	34922	AA	TT	TT	INTERGENIC			
SNP_96496_A_38511	NW_004516686.1	scaffold1493	38511	CC	GG	GG	INTERGENIC			
SNP_96497_A_56103	NW_004516686.1	scaffold1493	56103	TT	AA	AA	INTERGENIC			
SNP_96498_A_56108	NW_004516686.1	scaffold1493	56108	AA	GG	GG	INTERGENIC			
SNP_96499_A_56118	NW_004516686.1	scaffold1493	56118	AA	GG	GG	INTERGENIC			
SNP_96500_A_56149	NW_004516686.1	scaffold1493	56149	AA	GG	GG	INTERGENIC			
SNP_96501_A_56157	NW_004516686.1	scaffold1493	56157	TT	CC	CC	INTERGENIC			
SNP_96502_A_56162	NW_004516686.1	scaffold1493	56162	TT	CC	CC	INTERGENIC			
SNP_96503_A_56172	NW_004516686.1	scaffold1493	56172	GG	TT	TT	INTERGENIC			
SNP_96504_A_56419	NW_004516686.1	scaffold1493	56419	TT	CC	CC	INTERGENIC			
SNP_96505_A_56420	NW_004516686.1	scaffold1493	56420	GG	AA	AA	INTERGENIC			
SNP_96506_A_56522	NW_004516686.1	scaffold1493	56522	GG	AA	AA	INTERGENIC			
SNP_96507_A_64522	NW_004516686.1	scaffold1493	64522	CC	TT	TT	INTERGENIC			
SNP_96509_A_65521	NW_004516686.1	scaffold1493	65521	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96510_A_65594	NW_004516686.1	scaffold1493	65594	TT	CC	CC	INTERGENIC			
SNP_96511_A_65676	NW_004516686.1	scaffold1493	65676	TT	AA	AA	INTERGENIC			
SNP_96512_A_65684	NW_004516686.1	scaffold1493	65684	TT	GG	GG	INTERGENIC			
SNP_96513_A_65697	NW_004516686.1	scaffold1493	65697	CC	TT	TT	INTERGENIC			
SNP_96514_A_65699	NW_004516686.1	scaffold1493	65699	AA	CC	CC	INTERGENIC			
SNP_96515_A_65719	NW_004516686.1	scaffold1493	65719	AA	GG	GG	INTERGENIC			
SNP_96516_A_65786	NW_004516686.1	scaffold1493	65786	CC	TT	TT	INTERGENIC			
SNP_96517_A_65828	NW_004516686.1	scaffold1493	65828	CC	TT	TT	INTERGENIC			
SNP_96518_A_65917	NW_004516686.1	scaffold1493	65917	TT	CC	CC	INTERGENIC			
SNP_96519_A_85010	NW_004516686.1	scaffold1493	85010	TT	CC	CC	INTERGENIC			
SNP_96520_A_85017	NW_004516686.1	scaffold1493	85017	TT	CC	CC	INTERGENIC			
SNP_96521_A_85049	NW_004516686.1	scaffold1493	85049	TT	CC	CC	INTERGENIC			
SNP_96522_A_85074	NW_004516686.1	scaffold1493	85074	TT	CC	CC	INTERGENIC			
SNP_96523_A_85114	NW_004516686.1	scaffold1493	85114	GG	AA	AA	INTERGENIC			
SNP_96524_A_85145	NW_004516686.1	scaffold1493	85145	AA	GG	GG	INTERGENIC			
SNP_96525_A_85210	NW_004516686.1	scaffold1493	85210	TT	GG	GG	INTERGENIC			
SNP_96526_A_85231	NW_004516686.1	scaffold1493	85231	CC	TT	TT	INTERGENIC			
SNP_96527_A_85373	NW_004516686.1	scaffold1493	85373	TT	CC	CC	INTERGENIC			
SNP_96528_A_85401	NW_004516686.1	scaffold1493	85401	GG	AA	AA	INTERGENIC			
SNP_96529_A_85428	NW_004516686.1	scaffold1493	85428	CC	TT	TT	INTERGENIC			
SNP_96530_A_85431	NW_004516686.1	scaffold1493	85431	GG	AA	AA	INTERGENIC			
SNP_96531_A_85451	NW_004516686.1	scaffold1493	85451	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96532_A_88721	NW_004516686.1	scaffold1493	88721	TT	CC	CC	INTERGENIC		
SNP_96533_A_11765	NW_004516689.1	scaffold1496	11765	CC	GG	GG	URR	101498266	uncharacterized LOC101498266
SNP_96534_A_13170	NW_004516689.1	scaffold1496	13170	AA	GG	GG	INTERGENIC		
SNP_96535_A_21174	NW_004516689.1	scaffold1496	21174	TT	CC	CC	INTERGENIC		
SNP_96536_A_21186	NW_004516689.1	scaffold1496	21186	TT	CC	CC	INTERGENIC		
SNP_96537_A_21426	NW_004516689.1	scaffold1496	21426	TT	AA	AA	INTERGENIC		
SNP_96538_A_31008	NW_004516689.1	scaffold1496	31008	CC	TT	TT	INTERGENIC		
SNP_96539_A_55648	NW_004516689.1	scaffold1496	55648	TT	CC	CC	INTERGENIC		
SNP_96540_A_74005	NW_004516689.1	scaffold1496	74005	TT	CC	CC	INTERGENIC		
SNP_96541_A_88686	NW_004516689.1	scaffold1496	88686	TT	CC	CC	INTRON	101498491	DNA repair protein recA homolog 1, chloroplastic
SNP_96542_A_120765	NW_004516689.1	scaffold1496	120765	TT	AA	AA	INTERGENIC		
SNP_96543_A_121099	NW_004516689.1	scaffold1496	121099	TT	CC	CC	INTERGENIC		
SNP_96544_A_123085	NW_004516689.1	scaffold1496	123085	AA	CC	CC	INTERGENIC		
SNP_96545_A_123117	NW_004516689.1	scaffold1496	123117	CC	TT	TT	INTERGENIC		
SNP_96546_A_123207	NW_004516689.1	scaffold1496	123207	AA	GG	GG	INTERGENIC		
SNP_96547_A_123208	NW_004516689.1	scaffold1496	123208	CC	TT	TT	INTERGENIC		
SNP_96548_A_123209	NW_004516689.1	scaffold1496	123209	AA	CC	CC	INTERGENIC		
SNP_96549_A_123325	NW_004516689.1	scaffold1496	123325	CC	TT	TT	INTERGENIC		
SNP_96550_A_123396	NW_004516689.1	scaffold1496	123396	CC	TT	TT	INTERGENIC		
SNP_96551_A_123427	NW_004516689.1	scaffold1496	123427	GG	AA	AA	INTERGENIC		
SNP_96552_A_123446	NW_004516689.1	scaffold1496	123446	AA	GG	GG	INTERGENIC		
SNP_96553_A_123503	NW_004516689.1	scaffold1496	123503	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96555_A_138434	NW_004516689.1	scaffold1496	138434	GG	AA	AA	INTERGENIC			
SNP_96556_A_178058	NW_004516689.1	scaffold1496	178058	GG	TT	TT	INTERGENIC			
SNP_96557_A_189242	NW_004516689.1	scaffold1496	189242	CC	TT	TT	INTERGENIC			
SNP_96558_A_193841	NW_004516689.1	scaffold1496	193841	TT	GG	GG	INTERGENIC			
SNP_96559_A_202769	NW_004516689.1	scaffold1496	202769	AA	GG	GG	INTERGENIC			
SNP_96561_A_209095	NW_004516689.1	scaffold1496	209095	CC	GG	GG	INTERGENIC			
SNP_96562_A_210010	NW_004516689.1	scaffold1496	210010	AA	TT	TT	INTERGENIC			
SNP_96563_A_213400	NW_004516689.1	scaffold1496	213400	CC	AA	AA	INTERGENIC			
SNP_96564_A_214465	NW_004516689.1	scaffold1496	214465	TT	GG	GG	INTERGENIC			
SNP_96565_A_215617	NW_004516689.1	scaffold1496	215617	GG	AA	AA	INTERGENIC			
SNP_96566_A_231886	NW_004516689.1	scaffold1496	231886	CC	AA	AA	INTERGENIC			
SNP_96568_A_234298	NW_004516689.1	scaffold1496	234298	AA	GG	GG	INTERGENIC			
SNP_96570_A_238797	NW_004516689.1	scaffold1496	238797	CC	TT	TT	INTERGENIC			
SNP_96571_A_238913	NW_004516689.1	scaffold1496	238913	CC	TT	TT	NON_SYNONYMOUS_CODING	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96572_A_247630	NW_004516689.1	scaffold1496	247630	GG	AA	AA	INTRON	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96573_A_252632	NW_004516689.1	scaffold1496	252632	AA	TT	TT	NON_SYNONYMOUS_CODING	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96574_A_252720	NW_004516689.1	scaffold1496	252720	CC	AA	AA	INTRON	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96575_A_252931	NW_004516689.1	scaffold1496	252931	AA	GG	GG	INTRON	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96576_A_254260	NW_004516689.1	scaffold1496	254260	CC	GG	GG	NON_SYNONYMOUS_CODING	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96577_A_269540	NW_004516689.1	scaffold1496	269540	CC	GG	GG	NON_SYNONYMOUS_CODING	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96578_A_269957	NW_004516689.1	scaffold1496	269957	GG	AA	AA	INTRON	101498839	probable LRR receptor-like serine/threonine-protein kinase At1g56140	
SNP_96579_A_275732	NW_004516689.1	scaffold1496	275732	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96580_A_275820	NW_004516689.1	scaffold1496	275820	TT	CC	CC	INTERGENIC		
SNP_96581_A_276391	NW_004516689.1	scaffold1496	276391	GG	AA	AA	INTERGENIC		
SNP_96582_A_278252	NW_004516689.1	scaffold1496	278252	TT	CC	CC	INTERGENIC		
SNP_96583_A_285343	NW_004516689.1	scaffold1496	285343	GG	AA	AA	INTERGENIC		
SNP_96584_A_285645	NW_004516689.1	scaffold1496	285645	GG	AA	AA	INTERGENIC		
SNP_96585_A_286202	NW_004516689.1	scaffold1496	286202	GG	AA	AA	INTERGENIC		
SNP_96586_A_287858	NW_004516689.1	scaffold1496	287858	GG	AA	AA	INTERGENIC		
SNP_96587_A_291111	NW_004516689.1	scaffold1496	291111	GG	TT	TT	INTERGENIC		
SNP_96589_A_301288	NW_004516689.1	scaffold1496	301288	CC	AA	AA	INTERGENIC		
SNP_96590_A_305593	NW_004516689.1	scaffold1496	305593	AA	TT	TT	INTERGENIC		
SNP_96592_A_3238	NW_004516690.1	scaffold1497	3238	TT	CC	CC	INTERGENIC		
SNP_96593_A_4127	NW_004516690.1	scaffold1497	4127	CC	TT	TT	INTERGENIC		
SNP_96594_A_4152	NW_004516690.1	scaffold1497	4152	AA	TT	TT	INTERGENIC		
SNP_96595_A_4534	NW_004516690.1	scaffold1497	4534	CC	TT	TT	INTERGENIC		
SNP_96596_A_4505	NW_004516691.1	scaffold1498	4505	GG	TT	TT	URR	101500520	multidrug and toxin extrusion protein 1-like
SNP_96597_A_4691	NW_004516691.1	scaffold1498	4691	TT	CC	CC	URR	101500520	multidrug and toxin extrusion protein 1-like
SNP_96598_A_592	NW_004516692.1	scaffold1499	592	CC	AA	AA	INTERGENIC		
SNP_96599_A_867	NW_004516692.1	scaffold1499	867	GG	CC	CC	INTERGENIC		
SNP_96601_A_998	NW_004516692.1	scaffold1499	998	TT	AA	AA	INTERGENIC		
SNP_96602_A_1244	NW_004516692.1	scaffold1499	1244	TT	CC	CC	INTERGENIC		
SNP_96603_A_4445	NW_004516692.1	scaffold1499	4445	AA	TT	TT	INTRON	101501167	putative uncharacterized protein DDB_G0290521
SNP_96604_A_8725	NW_004516692.1	scaffold1499	8725	AA	GG	GG	URR	101501167	putative uncharacterized protein DDB_G0290521

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96606_A_11639	NW_004516692.1	scaffold1499	11639	TT	CC	CC	INTERGENIC			
SNP_96607_A_11641	NW_004516692.1	scaffold1499	11641	TT	AA	AA	INTERGENIC			
SNP_96608_A_11647	NW_004516692.1	scaffold1499	11647	TT	CC	CC	INTERGENIC			
SNP_96609_A_12255	NW_004516692.1	scaffold1499	12255	TT	AA	AA	INTERGENIC			
SNP_96610_A_12388	NW_004516692.1	scaffold1499	12388	CC	TT	TT	INTERGENIC			
SNP_96611_A_12504	NW_004516692.1	scaffold1499	12504	CC	AA	AA	INTERGENIC			
SNP_96612_A_12519	NW_004516692.1	scaffold1499	12519	GG	AA	AA	INTERGENIC			
SNP_96613_A_12520	NW_004516692.1	scaffold1499	12520	CC	GG	GG	INTERGENIC			
SNP_96614_A_12551	NW_004516692.1	scaffold1499	12551	CC	TT	TT	INTERGENIC			
SNP_96615_A_12656	NW_004516692.1	scaffold1499	12656	CC	AA	AA	INTERGENIC			
SNP_96616_A_12693	NW_004516692.1	scaffold1499	12693	CC	AA	AA	INTERGENIC			
SNP_96617_A_12742	NW_004516692.1	scaffold1499	12742	CC	TT	TT	INTERGENIC			
SNP_96618_A_13539	NW_004516692.1	scaffold1499	13539	AA	GG	GG	INTERGENIC			
SNP_96620_A_19340	NW_004516692.1	scaffold1499	19340	AA	GG	GG	INTERGENIC			
SNP_96621_A_19438	NW_004516692.1	scaffold1499	19438	TT	GG	GG	INTERGENIC			
SNP_96622_A_19501	NW_004516692.1	scaffold1499	19501	TT	CC	CC	INTERGENIC			
SNP_96623_A_20504	NW_004516692.1	scaffold1499	20504	CC	AA	AA	INTERGENIC			
SNP_96626_A_25288	NW_004516692.1	scaffold1499	25288	GG	CC	CC	URR	101501484	uncharacterized LOC101501484	
SNP_96627_A_28958	NW_004516692.1	scaffold1499	28958	AA	GG	GG	INTERGENIC			
SNP_96628_A_29992	NW_004516692.1	scaffold1499	29992	GG	AA	AA	INTERGENIC			
SNP_96629_A_34115	NW_004516692.1	scaffold1499	34115	GG	AA	AA	INTERGENIC			
SNP_96630_A_34163	NW_004516692.1	scaffold1499	34163	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96631_A_34169	NW_004516692.1	scaffold1499	34169	CC	TT	TT	INTERGENIC			
SNP_96632_A_34181	NW_004516692.1	scaffold1499	34181	AA	TT	TT	INTERGENIC			
SNP_96633_A_34196	NW_004516692.1	scaffold1499	34196	TT	AA	AA	INTERGENIC			
SNP_96634_A_34245	NW_004516692.1	scaffold1499	34245	CC	AA	AA	INTERGENIC			
SNP_96635_A_34256	NW_004516692.1	scaffold1499	34256	AA	GG	GG	INTERGENIC			
SNP_96636_A_34350	NW_004516692.1	scaffold1499	34350	AA	TT	TT	INTERGENIC			
SNP_96637_A_34357	NW_004516692.1	scaffold1499	34357	GG	TT	TT	INTERGENIC			
SNP_96638_A_34419	NW_004516692.1	scaffold1499	34419	GG	AA	AA	INTERGENIC			
SNP_96639_A_34433	NW_004516692.1	scaffold1499	34433	TT	AA	AA	INTERGENIC			
SNP_96640_A_34447	NW_004516692.1	scaffold1499	34447	AA	GG	GG	INTERGENIC			
SNP_96641_A_34486	NW_004516692.1	scaffold1499	34486	GG	TT	TT	INTERGENIC			
SNP_96642_A_34492	NW_004516692.1	scaffold1499	34492	CC	TT	TT	INTERGENIC			
SNP_96643_A_34568	NW_004516692.1	scaffold1499	34568	AA	TT	TT	INTERGENIC			
SNP_96644_A_34629	NW_004516692.1	scaffold1499	34629	GG	CC	CC	INTERGENIC			
SNP_96645_A_34648	NW_004516692.1	scaffold1499	34648	CC	AA	AA	INTERGENIC			
SNP_96646_A_34664	NW_004516692.1	scaffold1499	34664	TT	GG	GG	INTERGENIC			
SNP_96647_A_34682	NW_004516692.1	scaffold1499	34682	CC	AA	AA	INTERGENIC			
SNP_96648_A_40154	NW_004516692.1	scaffold1499	40154	CC	TT	TT	INTERGENIC			
SNP_96649_A_40365	NW_004516692.1	scaffold1499	40365	CC	GG	GG	INTERGENIC			
SNP_96650_A_40373	NW_004516692.1	scaffold1499	40373	CC	TT	TT	INTERGENIC			
SNP_96651_A_45962	NW_004516692.1	scaffold1499	45962	CC	AA	AA	INTERGENIC			
SNP_96652_A_46042	NW_004516692.1	scaffold1499	46042	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96653_A_46207	NW_004516692.1	scaffold1499	46207	TT	GG	GG	INTERGENIC		
SNP_96654_A_46233	NW_004516692.1	scaffold1499	46233	GG	AA	AA	INTERGENIC		
SNP_96655_A_46241	NW_004516692.1	scaffold1499	46241	CC	AA	AA	INTERGENIC		
SNP_96656_A_46315	NW_004516692.1	scaffold1499	46315	GG	TT	TT	INTERGENIC		
SNP_96657_A_46320	NW_004516692.1	scaffold1499	46320	AA	CC	CC	INTERGENIC		
SNP_96658_A_46514	NW_004516692.1	scaffold1499	46514	AA	CC	CC	INTERGENIC		
SNP_96660_A_53866	NW_004516692.1	scaffold1499	53866	CC	TT	TT	INTERGENIC		
SNP_96661_A_55985	NW_004516692.1	scaffold1499	55985	TT	GG	GG	INTERGENIC		
SNP_96662_A_58036	NW_004516692.1	scaffold1499	58036	CC	TT	TT	INTERGENIC		
SNP_96663_A_59324	NW_004516692.1	scaffold1499	59324	AA	GG	GG	INTERGENIC		
SNP_96664_A_60034	NW_004516692.1	scaffold1499	60034	AA	GG	GG	INTERGENIC		
SNP_96666_A_70952	NW_004516692.1	scaffold1499	70952	TT	AA	AA	INTERGENIC		
SNP_96668_A_74444	NW_004516692.1	scaffold1499	74444	CC	TT	TT	INTERGENIC		
SNP_96671_A_87115	NW_004516692.1	scaffold1499	87115	TT	AA	AA	INTERGENIC		
SNP_96673_A_115435	NW_004516692.1	scaffold1499	115435	TT	CC	CC	INTERGENIC		
SNP_96674_A_116182	NW_004516692.1	scaffold1499	116182	GG	AA	AA	INTERGENIC		
SNP_96675_A_121228	NW_004516692.1	scaffold1499	121228	AA	CC	CC	INTERGENIC		
SNP_96676_A_124413	NW_004516692.1	scaffold1499	124413	AA	GG	GG	INTERGENIC		
SNP_96678_A_139155	NW_004516692.1	scaffold1499	139155	TT	CC	CC	NON_SYNONYMOUS_CODING	101502445	Unknown function
SNP_96679_A_147916	NW_004516692.1	scaffold1499	147916	GG	CC	CC	INTERGENIC		
SNP_96680_A_152510	NW_004516692.1	scaffold1499	152510	TT	CC	CC	INTERGENIC		
SNP_96681_A_154272	NW_004516692.1	scaffold1499	154272	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96682_A_161044	NW_004516692.1	scaffold1499	161044	TT	CC	CC	INTERGENIC			
SNP_96683_A_727	NW_004516693.1	scaffold1502	727	GG	AA	AA	INTERGENIC			
SNP_96684_A_1180	NW_004516693.1	scaffold1502	1180	CC	GG	GG	INTERGENIC			
SNP_96685_A_1193	NW_004516693.1	scaffold1502	1193	GG	TT	TT	INTERGENIC			
SNP_96686_A_1205	NW_004516693.1	scaffold1502	1205	GG	AA	AA	INTERGENIC			
SNP_96687_A_1339	NW_004516693.1	scaffold1502	1339	CC	TT	TT	INTERGENIC			
SNP_96688_A_1432	NW_004516693.1	scaffold1502	1432	CC	AA	AA	INTERGENIC			
SNP_96689_A_1847	NW_004516693.1	scaffold1502	1847	GG	CC	CC	INTERGENIC			
SNP_96690_A_1864	NW_004516693.1	scaffold1502	1864	GG	CC	CC	INTERGENIC			
SNP_96691_A_2170	NW_004516693.1	scaffold1502	2170	AA	GG	GG	INTERGENIC			
SNP_96692_A_2317	NW_004516693.1	scaffold1502	2317	CC	TT	TT	INTERGENIC			
SNP_96693_A_2487	NW_004516693.1	scaffold1502	2487	AA	CC	CC	INTERGENIC			
SNP_96694_A_10345	NW_004516694.1	scaffold1504	10345	TT	GG	GG	INTERGENIC			
SNP_96695_A_10413	NW_004516694.1	scaffold1504	10413	TT	CC	CC	INTERGENIC			
SNP_96696_A_10501	NW_004516694.1	scaffold1504	10501	GG	AA	AA	INTERGENIC			
SNP_96697_A_52802	NW_004516694.1	scaffold1504	52802	CC	AA	AA	INTERGENIC			
SNP_96700_A_141069	NW_004516694.1	scaffold1504	141069	AA	GG	GG	INTERGENIC			
SNP_96701_A_141110	NW_004516694.1	scaffold1504	141110	TT	CC	CC	INTERGENIC			
SNP_96702_A_141118	NW_004516694.1	scaffold1504	141118	TT	CC	CC	INTERGENIC			
SNP_96703_A_161224	NW_004516694.1	scaffold1504	161224	AA	GG	GG	INTERGENIC			
SNP_96704_A_161263	NW_004516694.1	scaffold1504	161263	AA	TT	TT	INTERGENIC			
SNP_96705_A_161643	NW_004516694.1	scaffold1504	161643	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96706_A_161685	NW_004516694.1	scaffold1504	161685	TT	AA	AA	INTERGENIC			
SNP_96707_A_174106	NW_004516694.1	scaffold1504	174106	GG	AA	AA	INTERGENIC			
SNP_96708_A_174467	NW_004516694.1	scaffold1504	174467	AA	GG	GG	INTERGENIC			
SNP_96709_A_174493	NW_004516694.1	scaffold1504	174493	GG	TT	TT	INTERGENIC			
SNP_96710_A_182283	NW_004516694.1	scaffold1504	182283	CC	TT	TT	INTERGENIC			
SNP_96711_A_182375	NW_004516694.1	scaffold1504	182375	CC	AA	AA	INTERGENIC			
SNP_96712_A_182672	NW_004516694.1	scaffold1504	182672	TT	AA	AA	INTERGENIC			
SNP_96713_A_182680	NW_004516694.1	scaffold1504	182680	GG	TT	TT	INTERGENIC			
SNP_96714_A_182685	NW_004516694.1	scaffold1504	182685	AA	TT	TT	INTERGENIC			
SNP_96715_A_182732	NW_004516694.1	scaffold1504	182732	TT	CC	CC	INTERGENIC			
SNP_96716_A_182735	NW_004516694.1	scaffold1504	182735	TT	CC	CC	INTERGENIC			
SNP_96717_A_182754	NW_004516694.1	scaffold1504	182754	TT	AA	AA	INTERGENIC			
SNP_96718_A_182801	NW_004516694.1	scaffold1504	182801	TT	CC	CC	INTERGENIC			
SNP_96719_A_191945	NW_004516694.1	scaffold1504	191945	TT	GG	GG	INTERGENIC			
SNP_96720_A_194941	NW_004516694.1	scaffold1504	194941	AA	GG	GG	INTERGENIC			
SNP_96721_A_194993	NW_004516694.1	scaffold1504	194993	AA	GG	GG	INTERGENIC			
SNP_96722_A_195005	NW_004516694.1	scaffold1504	195005	TT	CC	CC	INTERGENIC			
SNP_96723_A_195029	NW_004516694.1	scaffold1504	195029	CC	TT	TT	INTERGENIC			
SNP_96725_A_200374	NW_004516694.1	scaffold1504	200374	CC	TT	TT	INTERGENIC			
SNP_96726_A_204759	NW_004516694.1	scaffold1504	204759	AA	GG	GG	INTERGENIC			
SNP_96727_A_240740	NW_004516694.1	scaffold1504	240740	TT	GG	GG	INTERGENIC			
SNP_96728_A_240775	NW_004516694.1	scaffold1504	240775	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96729_A_240781	NW_004516694.1	scaffold1504	240781	AA	GG	GG	INTERGENIC			
SNP_96730_A_240789	NW_004516694.1	scaffold1504	240789	TT	CC	CC	INTERGENIC			
SNP_96731_A_240793	NW_004516694.1	scaffold1504	240793	CC	TT	TT	INTERGENIC			
SNP_96732_A_240802	NW_004516694.1	scaffold1504	240802	GG	CC	CC	INTERGENIC			
SNP_96733_A_241177	NW_004516694.1	scaffold1504	241177	AA	GG	GG	INTERGENIC			
SNP_96734_A_241204	NW_004516694.1	scaffold1504	241204	GG	AA	AA	INTERGENIC			
SNP_96735_A_241228	NW_004516694.1	scaffold1504	241228	GG	AA	AA	INTERGENIC			
SNP_96736_A_241243	NW_004516694.1	scaffold1504	241243	AA	GG	GG	INTERGENIC			
SNP_96737_A_242878	NW_004516694.1	scaffold1504	242878	AA	GG	GG	INTERGENIC			
SNP_96738_A_242890	NW_004516694.1	scaffold1504	242890	AA	GG	GG	INTERGENIC			
SNP_96739_A_242893	NW_004516694.1	scaffold1504	242893	GG	AA	AA	INTERGENIC			
SNP_96740_A_242922	NW_004516694.1	scaffold1504	242922	GG	CC	CC	INTERGENIC			
SNP_96742_A_290723	NW_004516694.1	scaffold1504	290723	GG	CC	CC	INTERGENIC			
SNP_96743_A_316042	NW_004516694.1	scaffold1504	316042	GG	TT	TT	INTERGENIC			
SNP_96744_A_318576	NW_004516694.1	scaffold1504	318576	CC	AA	AA	INTERGENIC			
SNP_96745_A_318595	NW_004516694.1	scaffold1504	318595	TT	CC	CC	INTERGENIC			
SNP_96746_A_318645	NW_004516694.1	scaffold1504	318645	TT	CC	CC	INTERGENIC			
SNP_96747_A_318738	NW_004516694.1	scaffold1504	318738	AA	CC	CC	INTERGENIC			
SNP_96748_A_318844	NW_004516694.1	scaffold1504	318844	TT	AA	AA	INTERGENIC			
SNP_96749_A_318875	NW_004516694.1	scaffold1504	318875	AA	GG	GG	INTERGENIC			
SNP_96750_A_326379	NW_004516694.1	scaffold1504	326379	TT	GG	GG	NON_SYNONYMOUS_CODING	101505329	uncharacterized LOC101505329	
SNP_96752_A_328714	NW_004516694.1	scaffold1504	328714	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96753_A_328717	NW_004516694.1	scaffold1504	328717	GG	AA	AA	INTERGENIC			
SNP_96754_A_398289	NW_004516694.1	scaffold1504	398289	GG	TT	TT	INTERGENIC			
SNP_96755_A_398757	NW_004516694.1	scaffold1504	398757	GG	AA	AA	INTERGENIC			
SNP_96756_A_398802	NW_004516694.1	scaffold1504	398802	AA	GG	GG	INTERGENIC			
SNP_96757_A_398848	NW_004516694.1	scaffold1504	398848	GG	AA	AA	INTERGENIC			
SNP_96758_A_18689	NW_004516695.1	scaffold1505	18689	CC	TT	TT	INTERGENIC			
SNP_96759_A_18696	NW_004516695.1	scaffold1505	18696	GG	AA	AA	INTERGENIC			
SNP_96760_A_14013	NW_004516696.1	scaffold1506	14013	AA	TT	TT	INTERGENIC			
SNP_96761_A_14021	NW_004516696.1	scaffold1506	14021	TT	CC	CC	INTERGENIC			
SNP_96762_A_14282	NW_004516696.1	scaffold1506	14282	AA	GG	GG	INTERGENIC			
SNP_96763_A_14330	NW_004516696.1	scaffold1506	14330	AA	TT	TT	INTERGENIC			
SNP_96765_A_103299	NW_004516696.1	scaffold1506	103299	AA	GG	GG	INTERGENIC			
SNP_96766_A_103725	NW_004516696.1	scaffold1506	103725	AA	CC	CC	INTERGENIC			
SNP_96767_A_103726	NW_004516696.1	scaffold1506	103726	TT	AA	AA	INTERGENIC			
SNP_96768_A_103730	NW_004516696.1	scaffold1506	103730	AA	CC	CC	INTERGENIC			
SNP_96769_A_103742	NW_004516696.1	scaffold1506	103742	TT	CC	CC	INTERGENIC			
SNP_96770_A_30266	NW_004516697.1	scaffold1507	30266	TT	GG	GG	INTERGENIC			
SNP_96771_A_30559	NW_004516697.1	scaffold1507	30559	TT	GG	GG	INTERGENIC			
SNP_96772_A_30614	NW_004516697.1	scaffold1507	30614	CC	AA	AA	INTERGENIC			
SNP_96773_A_30615	NW_004516697.1	scaffold1507	30615	CC	TT	TT	INTERGENIC			
SNP_96774_A_30625	NW_004516697.1	scaffold1507	30625	CC	TT	TT	INTERGENIC			
SNP_96775_A_25573	NW_004516698.1	scaffold1508	25573	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96778_A_1095	NW_004516700.1	scaffold1511	1095	GG	TT	TT	INTERGENIC			
SNP_96779_A_2660	NW_004516700.1	scaffold1511	2660	AA	TT	TT	INTERGENIC			
SNP_96780_A_4893	NW_004516700.1	scaffold1511	4893	CC	TT	TT	INTERGENIC			
SNP_96781_A_11943	NW_004516700.1	scaffold1511	11943	AA	TT	TT	INTERGENIC			
SNP_96782_A_19199	NW_004516700.1	scaffold1511	19199	AA	GG	GG	INTERGENIC			
SNP_96783_A_19202	NW_004516700.1	scaffold1511	19202	AA	CC	CC	INTERGENIC			
SNP_96784_A_24718	NW_004516700.1	scaffold1511	24718	CC	TT	TT	INTERGENIC			
SNP_96785_A_25076	NW_004516700.1	scaffold1511	25076	AA	GG	GG	INTERGENIC			
SNP_96787_A_32626	NW_004516700.1	scaffold1511	32626	TT	GG	GG	INTERGENIC			
SNP_96788_A_33988	NW_004516700.1	scaffold1511	33988	CC	TT	TT	INTERGENIC			
SNP_96789_A_34272	NW_004516700.1	scaffold1511	34272	TT	GG	GG	INTERGENIC			
SNP_96790_A_34289	NW_004516700.1	scaffold1511	34289	CC	GG	GG	INTERGENIC			
SNP_96791_A_34538	NW_004516700.1	scaffold1511	34538	TT	CC	CC	INTERGENIC			
SNP_96792_A_34894	NW_004516700.1	scaffold1511	34894	TT	GG	GG	INTERGENIC			
SNP_96793_A_35239	NW_004516700.1	scaffold1511	35239	GG	AA	AA	INTERGENIC			
SNP_96794_A_35255	NW_004516700.1	scaffold1511	35255	AA	CC	CC	INTERGENIC			
SNP_96795_A_35261	NW_004516700.1	scaffold1511	35261	GG	AA	AA	INTERGENIC			
SNP_96796_A_35591	NW_004516700.1	scaffold1511	35591	AA	TT	TT	INTERGENIC			
SNP_96798_A_38772	NW_004516700.1	scaffold1511	38772	GG	AA	AA	INTERGENIC			
SNP_96799_A_46537	NW_004516700.1	scaffold1511	46537	TT	CC	CC	INTERGENIC			
SNP_96800_A_47331	NW_004516700.1	scaffold1511	47331	CC	AA	AA	INTERGENIC			
SNP_96801_A_47846	NW_004516700.1	scaffold1511	47846	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96802_A_48429	NW_004516700.1	scaffold1511	48429	AA	TT	TT	INTERGENIC		
SNP_96803_A_54498	NW_004516700.1	scaffold1511	54498	AA	CC	CC	INTERGENIC		
SNP_96804_A_59122	NW_004516700.1	scaffold1511	59122	AA	GG	GG	INTERGENIC		
SNP_96805_A_71859	NW_004516700.1	scaffold1511	71859	AA	GG	GG	INTRON	101508857	uncharacterized LOC101508857
SNP_96806_A_74105	NW_004516700.1	scaffold1511	74105	GG	AA	AA	URR	101508857	uncharacterized LOC101508857
SNP_96807_A_82742	NW_004516700.1	scaffold1511	82742	TT	CC	CC	INTERGENIC		
SNP_96808_A_82803	NW_004516700.1	scaffold1511	82803	AA	CC	CC	INTERGENIC		
SNP_96809_A_82902	NW_004516700.1	scaffold1511	82902	GG	AA	AA	INTERGENIC		
SNP_96810_A_82936	NW_004516700.1	scaffold1511	82936	GG	AA	AA	INTERGENIC		
SNP_96811_A_83141	NW_004516700.1	scaffold1511	83141	AA	GG	GG	INTERGENIC		
SNP_96812_A_86417	NW_004516700.1	scaffold1511	86417	AA	CC	CC	INTERGENIC		
SNP_96813_A_88426	NW_004516700.1	scaffold1511	88426	TT	CC	CC	INTERGENIC		
SNP_96814_A_90040	NW_004516700.1	scaffold1511	90040	AA	GG	GG	INTERGENIC		
SNP_96815_A_90158	NW_004516700.1	scaffold1511	90158	AA	GG	GG	INTERGENIC		
SNP_96816_A_93436	NW_004516700.1	scaffold1511	93436	GG	AA	AA	INTERGENIC		
SNP_96817_A_103163	NW_004516700.1	scaffold1511	103163	GG	AA	AA	INTERGENIC		
SNP_96818_A_104734	NW_004516700.1	scaffold1511	104734	TT	AA	AA	INTERGENIC		
SNP_96819_A_104742	NW_004516700.1	scaffold1511	104742	CC	TT	TT	INTERGENIC		
SNP_96820_A_105654	NW_004516700.1	scaffold1511	105654	TT	GG	GG	INTERGENIC		
SNP_96821_A_107259	NW_004516700.1	scaffold1511	107259	CC	TT	TT	INTERGENIC		
SNP_96822_A_109664	NW_004516700.1	scaffold1511	109664	GG	TT	TT	INTERGENIC		
SNP_96824_A_110258	NW_004516700.1	scaffold1511	110258	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96825_A_110876	NW_004516700.1	scaffold1511	110876	AA	GG	GG	INTERGENIC			
SNP_96826_A_110882	NW_004516700.1	scaffold1511	110882	GG	CC	CC	INTERGENIC			
SNP_96827_A_111846	NW_004516700.1	scaffold1511	111846	TT	CC	CC	INTERGENIC			
SNP_96828_A_112195	NW_004516700.1	scaffold1511	112195	CC	TT	TT	INTERGENIC			
SNP_96829_A_114850	NW_004516700.1	scaffold1511	114850	GG	AA	AA	INTERGENIC			
SNP_96830_A_115235	NW_004516700.1	scaffold1511	115235	CC	AA	AA	INTERGENIC			
SNP_96831_A_122120	NW_004516700.1	scaffold1511	122120	TT	CC	CC	INTERGENIC			
SNP_96832_A_122359	NW_004516700.1	scaffold1511	122359	TT	GG	GG	INTERGENIC			
SNP_96833_A_122363	NW_004516700.1	scaffold1511	122363	AA	TT	TT	INTERGENIC			
SNP_96834_A_122392	NW_004516700.1	scaffold1511	122392	AA	GG	GG	INTERGENIC			
SNP_96835_A_122575	NW_004516700.1	scaffold1511	122575	TT	CC	CC	INTERGENIC			
SNP_96836_A_122703	NW_004516700.1	scaffold1511	122703	AA	GG	GG	INTERGENIC			
SNP_96838_A_124385	NW_004516700.1	scaffold1511	124385	GG	TT	TT	INTERGENIC			
SNP_96839_A_125254	NW_004516700.1	scaffold1511	125254	TT	AA	AA	INTERGENIC			
SNP_96840_A_127677	NW_004516700.1	scaffold1511	127677	CC	TT	TT	INTERGENIC			
SNP_96841_A_130282	NW_004516700.1	scaffold1511	130282	AA	TT	TT	INTERGENIC			
SNP_96842_A_133111	NW_004516700.1	scaffold1511	133111	TT	CC	CC	INTERGENIC			
SNP_96843_A_133165	NW_004516700.1	scaffold1511	133165	AA	GG	GG	INTERGENIC			
SNP_96845_A_135749	NW_004516700.1	scaffold1511	135749	AA	TT	TT	INTERGENIC			
SNP_96846_A_135873	NW_004516700.1	scaffold1511	135873	CC	TT	TT	INTERGENIC			
SNP_96847_A_136394	NW_004516700.1	scaffold1511	136394	TT	CC	CC	INTERGENIC			
SNP_96849_A_142974	NW_004516700.1	scaffold1511	142974	TT	CC	CC	DRR	101509930	MATE efflux family protein 1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96850_A_147290	NW_004516700.1	scaffold1511	147290	CC	TT	TT	NON_SYNONYMOUS_CODING	101509930	MATE efflux family protein 1-like
SNP_96851_A_151884	NW_004516700.1	scaffold1511	151884	GG	AA	AA	INTERGENIC		
SNP_96852_A_152216	NW_004516700.1	scaffold1511	152216	GG	AA	AA	INTERGENIC		
SNP_96853_A_152522	NW_004516700.1	scaffold1511	152522	GG	AA	AA	INTERGENIC		
SNP_96854_A_156909	NW_004516700.1	scaffold1511	156909	CC	TT	TT	INTERGENIC		
SNP_96855_A_157147	NW_004516700.1	scaffold1511	157147	CC	TT	TT	INTERGENIC		
SNP_96856_A_157473	NW_004516700.1	scaffold1511	157473	CC	AA	AA	INTERGENIC		
SNP_96857_A_158888	NW_004516700.1	scaffold1511	158888	AA	CC	CC	INTERGENIC		
SNP_96858_A_159248	NW_004516700.1	scaffold1511	159248	AA	CC	CC	INTERGENIC		
SNP_96859_A_164795	NW_004516700.1	scaffold1511	164795	AA	CC	CC	INTERGENIC		
SNP_96860_A_165196	NW_004516700.1	scaffold1511	165196	CC	TT	TT	INTERGENIC		
SNP_96861_A_165796	NW_004516700.1	scaffold1511	165796	AA	TT	TT	INTERGENIC		
SNP_96863_A_167781	NW_004516700.1	scaffold1511	167781	AA	GG	GG	INTERGENIC		
SNP_96864_A_173774	NW_004516700.1	scaffold1511	173774	CC	TT	TT	INTERGENIC		
SNP_96865_A_174183	NW_004516700.1	scaffold1511	174183	TT	CC	CC	INTERGENIC		
SNP_96866_A_174276	NW_004516700.1	scaffold1511	174276	AA	GG	GG	INTERGENIC		
SNP_96867_A_174277	NW_004516700.1	scaffold1511	174277	GG	AA	AA	INTERGENIC		
SNP_96868_A_174581	NW_004516700.1	scaffold1511	174581	TT	CC	CC	INTERGENIC		
SNP_96869_A_174631	NW_004516700.1	scaffold1511	174631	AA	GG	GG	INTERGENIC		
SNP_96870_A_174643	NW_004516700.1	scaffold1511	174643	CC	GG	GG	INTERGENIC		
SNP_96871_A_174676	NW_004516700.1	scaffold1511	174676	GG	TT	TT	INTERGENIC		
SNP_96872_A_174693	NW_004516700.1	scaffold1511	174693	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96873_A_174811	NW_004516700.1	scaffold1511	174811	TT	CC	CC	INTERGENIC			
SNP_96874_A_176590	NW_004516700.1	scaffold1511	176590	GG	TT	TT	INTERGENIC			
SNP_96875_A_176606	NW_004516700.1	scaffold1511	176606	CC	TT	TT	INTERGENIC			
SNP_96876_A_176630	NW_004516700.1	scaffold1511	176630	GG	AA	AA	INTERGENIC			
SNP_96877_A_176655	NW_004516700.1	scaffold1511	176655	CC	TT	TT	INTERGENIC			
SNP_96878_A_177832	NW_004516700.1	scaffold1511	177832	GG	TT	TT	INTERGENIC			
SNP_96879_A_180354	NW_004516700.1	scaffold1511	180354	AA	CC	CC	INTERGENIC			
SNP_96880_A_180388	NW_004516700.1	scaffold1511	180388	GG	AA	AA	INTERGENIC			
SNP_96881_A_181038	NW_004516700.1	scaffold1511	181038	AA	GG	GG	INTERGENIC			
SNP_96882_A_182739	NW_004516700.1	scaffold1511	182739	CC	TT	TT	INTERGENIC			
SNP_96883_A_187062	NW_004516700.1	scaffold1511	187062	AA	CC	CC	INTERGENIC			
SNP_96884_A_187110	NW_004516700.1	scaffold1511	187110	GG	TT	TT	INTERGENIC			
SNP_96885_A_187289	NW_004516700.1	scaffold1511	187289	CC	TT	TT	INTERGENIC			
SNP_96886_A_187298	NW_004516700.1	scaffold1511	187298	CC	GG	GG	INTERGENIC			
SNP_96887_A_187622	NW_004516700.1	scaffold1511	187622	TT	GG	GG	INTERGENIC			
SNP_96888_A_188666	NW_004516700.1	scaffold1511	188666	CC	TT	TT	INTERGENIC			
SNP_96889_A_189261	NW_004516700.1	scaffold1511	189261	AA	CC	CC	INTERGENIC			
SNP_96890_A_189263	NW_004516700.1	scaffold1511	189263	CC	TT	TT	INTERGENIC			
SNP_96891_A_191339	NW_004516700.1	scaffold1511	191339	TT	CC	CC	INTERGENIC			
SNP_96892_A_192359	NW_004516700.1	scaffold1511	192359	GG	CC	CC	INTERGENIC			
SNP_96893_A_193340	NW_004516700.1	scaffold1511	193340	AA	TT	TT	INTERGENIC			
SNP_96894_A_8544	NW_004516701.1	scaffold1512	8544	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96895_A_9174	NW_004516701.1	scaffold1512	9174	AA	GG	GG	INTERGENIC			
SNP_96896_A_7955	NW_004516704.1	scaffold1515	7955	GG	AA	AA	INTERGENIC			
SNP_96897_A_9254	NW_004516704.1	scaffold1515	9254	TT	AA	AA	INTERGENIC			
SNP_96898_A_9263	NW_004516704.1	scaffold1515	9263	TT	AA	AA	INTERGENIC			
SNP_96899_A_9358	NW_004516704.1	scaffold1515	9358	GG	AA	AA	INTERGENIC			
SNP_96900_A_9387	NW_004516704.1	scaffold1515	9387	GG	TT	TT	INTERGENIC			
SNP_96901_A_9503	NW_004516704.1	scaffold1515	9503	AA	TT	TT	INTERGENIC			
SNP_96902_A_9548	NW_004516704.1	scaffold1515	9548	TT	CC	CC	INTERGENIC			
SNP_96903_A_9675	NW_004516704.1	scaffold1515	9675	AA	TT	TT	INTERGENIC			
SNP_96904_A_9791	NW_004516704.1	scaffold1515	9791	CC	TT	TT	INTERGENIC			
SNP_96905_A_9885	NW_004516704.1	scaffold1515	9885	AA	GG	GG	INTERGENIC			
SNP_96906_A_9909	NW_004516704.1	scaffold1515	9909	AA	GG	GG	INTERGENIC			
SNP_96907_A_10026	NW_004516704.1	scaffold1515	10026	TT	CC	CC	INTERGENIC			
SNP_96908_A_10043	NW_004516704.1	scaffold1515	10043	GG	AA	AA	INTERGENIC			
SNP_96909_A_10090	NW_004516704.1	scaffold1515	10090	CC	TT	TT	INTERGENIC			
SNP_96910_A_10204	NW_004516704.1	scaffold1515	10204	TT	CC	CC	INTERGENIC			
SNP_96911_A_10258	NW_004516704.1	scaffold1515	10258	AA	GG	GG	INTERGENIC			
SNP_96912_A_10471	NW_004516704.1	scaffold1515	10471	TT	AA	AA	INTERGENIC			
SNP_96913_A_13327	NW_004516704.1	scaffold1515	13327	GG	CC	CC	INTERGENIC			
SNP_96914_A_15199	NW_004516704.1	scaffold1515	15199	GG	AA	AA	INTERGENIC			
SNP_96915_A_15278	NW_004516704.1	scaffold1515	15278	CC	AA	AA	INTERGENIC			
SNP_96916_A_15280	NW_004516704.1	scaffold1515	15280	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96917_A_15383	NW_004516704.1	scaffold1515	15383	CC	TT	TT	INTERGENIC			
SNP_96918_A_15413	NW_004516704.1	scaffold1515	15413	CC	TT	TT	INTERGENIC			
SNP_96919_A_15424	NW_004516704.1	scaffold1515	15424	TT	CC	CC	INTERGENIC			
SNP_96920_A_15460	NW_004516704.1	scaffold1515	15460	CC	GG	GG	INTERGENIC			
SNP_96921_A_15506	NW_004516704.1	scaffold1515	15506	TT	AA	AA	INTERGENIC			
SNP_96922_A_15775	NW_004516704.1	scaffold1515	15775	TT	CC	CC	INTERGENIC			
SNP_96923_A_17765	NW_004516704.1	scaffold1515	17765	GG	AA	AA	INTERGENIC			
SNP_96924_A_17835	NW_004516704.1	scaffold1515	17835	GG	AA	AA	INTERGENIC			
SNP_96925_A_18024	NW_004516704.1	scaffold1515	18024	GG	AA	AA	INTERGENIC			
SNP_96926_A_18052	NW_004516704.1	scaffold1515	18052	TT	CC	CC	INTERGENIC			
SNP_96927_A_18225	NW_004516704.1	scaffold1515	18225	TT	CC	CC	INTERGENIC			
SNP_96928_A_18247	NW_004516704.1	scaffold1515	18247	TT	AA	AA	INTERGENIC			
SNP_96929_A_20888	NW_004516704.1	scaffold1515	20888	GG	AA	AA	INTERGENIC			
SNP_96930_A_30530	NW_004516704.1	scaffold1515	30530	TT	CC	CC	INTERGENIC			
SNP_96931_A_30919	NW_004516704.1	scaffold1515	30919	AA	GG	GG	INTERGENIC			
SNP_96932_A_2623	NW_004516705.1	scaffold1516	2623	CC	GG	GG	INTERGENIC			
SNP_96933_A_2725	NW_004516705.1	scaffold1516	2725	GG	TT	TT	INTERGENIC			
SNP_96934_A_2748	NW_004516705.1	scaffold1516	2748	AA	GG	GG	INTERGENIC			
SNP_96935_A_3038	NW_004516705.1	scaffold1516	3038	GG	TT	TT	INTERGENIC			
SNP_96936_A_3058	NW_004516705.1	scaffold1516	3058	AA	CC	CC	INTERGENIC			
SNP_96937_A_3059	NW_004516705.1	scaffold1516	3059	TT	AA	AA	INTERGENIC			
SNP_96938_A_8052	NW_004516705.1	scaffold1516	8052	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_96939_A_8098	NW_004516705.1	scaffold1516	8098	CC	TT	TT	INTERGENIC			
SNP_96940_A_8143	NW_004516705.1	scaffold1516	8143	TT	CC	CC	INTERGENIC			
SNP_96941_A_8320	NW_004516705.1	scaffold1516	8320	AA	CC	CC	INTERGENIC			
SNP_96942_A_8351	NW_004516705.1	scaffold1516	8351	TT	GG	GG	INTERGENIC			
SNP_96943_A_8430	NW_004516705.1	scaffold1516	8430	GG	AA	AA	INTERGENIC			
SNP_96944_A_8441	NW_004516705.1	scaffold1516	8441	CC	GG	GG	INTERGENIC			
SNP_96945_A_9111	NW_004516705.1	scaffold1516	9111	TT	CC	CC	INTERGENIC			
SNP_96946_A_16800	NW_004516706.1	scaffold1519	16800	GG	AA	AA	INTERGENIC			
SNP_96948_A_16809	NW_004516706.1	scaffold1519	16809	TT	AA	AA	INTERGENIC			
SNP_96949_A_16951	NW_004516706.1	scaffold1519	16951	TT	CC	CC	INTERGENIC			
SNP_96950_A_16993	NW_004516706.1	scaffold1519	16993	TT	CC	CC	INTERGENIC			
SNP_96951_A_17063	NW_004516706.1	scaffold1519	17063	GG	TT	TT	INTERGENIC			
SNP_96952_A_115	NW_004516708.1	scaffold1521	115	CC	TT	TT	INTERGENIC			
SNP_96953_A_425	NW_004516708.1	scaffold1521	425	TT	GG	GG	INTERGENIC			
SNP_96954_A_559	NW_004516708.1	scaffold1521	559	GG	AA	AA	INTERGENIC			
SNP_96955_A_593	NW_004516708.1	scaffold1521	593	AA	GG	GG	INTERGENIC			
SNP_96956_A_599	NW_004516708.1	scaffold1521	599	AA	GG	GG	INTERGENIC			
SNP_96957_A_705	NW_004516708.1	scaffold1521	705	CC	TT	TT	INTERGENIC			
SNP_96958_A_725	NW_004516708.1	scaffold1521	725	CC	TT	TT	INTERGENIC			
SNP_96959_A_1065	NW_004516708.1	scaffold1521	1065	AA	TT	TT	INTERGENIC			
SNP_96960_A_1133	NW_004516708.1	scaffold1521	1133	CC	AA	AA	INTERGENIC			
SNP_96962_A_5973	NW_004516708.1	scaffold1521	5973	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96963_A_7659	NW_004516708.1	scaffold1521	7659	TT	GG	GG	INTERGENIC		
SNP_96964_A_8212	NW_004516708.1	scaffold1521	8212	TT	CC	CC	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96965_A_8220	NW_004516708.1	scaffold1521	8220	AA	CC	CC	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96966_A_8339	NW_004516708.1	scaffold1521	8339	AA	CC	CC	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96967_A_8365	NW_004516708.1	scaffold1521	8365	AA	TT	TT	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96968_A_8377	NW_004516708.1	scaffold1521	8377	AA	TT	TT	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96969_A_8383	NW_004516708.1	scaffold1521	8383	TT	GG	GG	DRR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96970_A_10345	NW_004516708.1	scaffold1521	10345	TT	AA	AA	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96971_A_10356	NW_004516708.1	scaffold1521	10356	TT	AA	AA	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96972_A_10386	NW_004516708.1	scaffold1521	10386	GG	AA	AA	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96973_A_10400	NW_004516708.1	scaffold1521	10400	CC	TT	TT	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96974_A_10585	NW_004516708.1	scaffold1521	10585	GG	TT	TT	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96976_A_11946	NW_004516708.1	scaffold1521	11946	CC	GG	GG	URR	101512187	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96977_A_13482	NW_004516708.1	scaffold1521	13482	GG	AA	AA	INTERGENIC		
SNP_96978_A_13539	NW_004516708.1	scaffold1521	13539	TT	AA	AA	INTERGENIC		
SNP_96980_A_15273	NW_004516708.1	scaffold1521	15273	TT	CC	CC	INTERGENIC		
SNP_96981_A_15300	NW_004516708.1	scaffold1521	15300	TT	AA	AA	INTERGENIC		
SNP_96982_A_15309	NW_004516708.1	scaffold1521	15309	TT	GG	GG	INTERGENIC		
SNP_96983_A_15346	NW_004516708.1	scaffold1521	15346	TT	AA	AA	INTERGENIC		
SNP_96984_A_15440	NW_004516708.1	scaffold1521	15440	AA	TT	TT	INTERGENIC		
SNP_96985_A_15463	NW_004516708.1	scaffold1521	15463	AA	TT	TT	INTERGENIC		
SNP_96986_A_15470	NW_004516708.1	scaffold1521	15470	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_96987_A_15481	NW_004516708.1	scaffold1521	15481	TT	AA	AA	INTERGENIC		
SNP_96988_A_15531	NW_004516708.1	scaffold1521	15531	CC	AA	AA	INTERGENIC		
SNP_96989_A_15538	NW_004516708.1	scaffold1521	15538	CC	TT	TT	INTERGENIC		
SNP_96990_A_15560	NW_004516708.1	scaffold1521	15560	TT	CC	CC	INTERGENIC		
SNP_96993_A_19302	NW_004516708.1	scaffold1521	19302	TT	GG	GG	NON_SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96994_A_19363	NW_004516708.1	scaffold1521	19363	CC	TT	TT	SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96995_A_19398	NW_004516708.1	scaffold1521	19398	TT	GG	GG	NON_SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96996_A_19506	NW_004516708.1	scaffold1521	19506	GG	AA	AA	NON_SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96997_A_19605	NW_004516708.1	scaffold1521	19605	CC	AA	AA	NON_SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96998_A_19653	NW_004516708.1	scaffold1521	19653	CC	AA	AA	NON_SYNONYMOUS_CODING	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_96999_A_19670	NW_004516708.1	scaffold1521	19670	TT	AA	AA	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97000_A_19764	NW_004516708.1	scaffold1521	19764	CC	TT	TT	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97001_A_19964	NW_004516708.1	scaffold1521	19964	TT	CC	CC	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97002_A_20082	NW_004516708.1	scaffold1521	20082	CC	TT	TT	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97003_A_20335	NW_004516708.1	scaffold1521	20335	GG	CC	CC	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97004_A_21318	NW_004516708.1	scaffold1521	21318	AA	CC	CC	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97005_A_21505	NW_004516708.1	scaffold1521	21505	CC	TT	TT	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97006_A_21510	NW_004516708.1	scaffold1521	21510	CC	TT	TT	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97007_A_21578	NW_004516708.1	scaffold1521	21578	TT	AA	AA	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97008_A_21606	NW_004516708.1	scaffold1521	21606	AA	GG	GG	URR	101512512	L-type lectin-domain containing receptor kinase IX.1-like
SNP_97009_A_23355	NW_004516708.1	scaffold1521	23355	AA	TT	TT	INTERGENIC		
SNP_97010_A_23422	NW_004516708.1	scaffold1521	23422	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97011_A_23613	NW_004516708.1	scaffold1521	23613	TT	CC	CC	INTERGENIC			
SNP_97012_A_23817	NW_004516708.1	scaffold1521	23817	TT	GG	GG	INTERGENIC			
SNP_97013_A_25700	NW_004516708.1	scaffold1521	25700	GG	CC	CC	INTERGENIC			
SNP_97014_A_25915	NW_004516708.1	scaffold1521	25915	AA	GG	GG	INTERGENIC			
SNP_97015_A_26566	NW_004516708.1	scaffold1521	26566	AA	GG	GG	INTERGENIC			
SNP_97016_A_26705	NW_004516708.1	scaffold1521	26705	CC	TT	TT	INTERGENIC			
SNP_97017_A_26732	NW_004516708.1	scaffold1521	26732	GG	TT	TT	INTERGENIC			
SNP_97018_A_26740	NW_004516708.1	scaffold1521	26740	AA	GG	GG	INTERGENIC			
SNP_97019_A_26848	NW_004516708.1	scaffold1521	26848	TT	AA	AA	INTERGENIC			
SNP_97020_A_26925	NW_004516708.1	scaffold1521	26925	GG	TT	TT	INTERGENIC			
SNP_97021_A_27261	NW_004516708.1	scaffold1521	27261	TT	CC	CC	INTERGENIC			
SNP_97022_A_27262	NW_004516708.1	scaffold1521	27262	TT	AA	AA	INTERGENIC			
SNP_97023_A_1594	NW_004516709.1	scaffold1523	1594	AA	TT	TT	INTERGENIC			
SNP_97024_A_1607	NW_004516709.1	scaffold1523	1607	CC	TT	TT	INTERGENIC			
SNP_97025_A_1863	NW_004516709.1	scaffold1523	1863	GG	TT	TT	INTERGENIC			
SNP_97026_A_1876	NW_004516709.1	scaffold1523	1876	CC	TT	TT	INTERGENIC			
SNP_97027_A_1923	NW_004516709.1	scaffold1523	1923	GG	CC	CC	INTERGENIC			
SNP_97028_A_5067	NW_004516709.1	scaffold1523	5067	GG	TT	TT	INTERGENIC			
SNP_97029_A_9777	NW_004516709.1	scaffold1523	9777	GG	TT	TT	INTERGENIC			
SNP_97030_A_9867	NW_004516709.1	scaffold1523	9867	GG	CC	CC	INTERGENIC			
SNP_97031_A_6911	NW_004516710.1	scaffold1524	6911	AA	TT	TT	INTERGENIC			
SNP_97032_A_3319	NW_004516712.1	scaffold1526	3319	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97033_A_7420	NW_004516714.1	scaffold1530	7420	TT	AA	AA	INTERGENIC			
SNP_97034_A_10165	NW_004516714.1	scaffold1530	10165	TT	AA	AA	INTERGENIC			
SNP_97035_A_10194	NW_004516714.1	scaffold1530	10194	TT	CC	CC	INTERGENIC			
SNP_97036_A_10225	NW_004516714.1	scaffold1530	10225	CC	TT	TT	INTERGENIC			
SNP_97037_A_10299	NW_004516714.1	scaffold1530	10299	GG	AA	AA	INTERGENIC			
SNP_97038_A_10309	NW_004516714.1	scaffold1530	10309	CC	TT	TT	INTERGENIC			
SNP_97039_A_10320	NW_004516714.1	scaffold1530	10320	GG	AA	AA	INTERGENIC			
SNP_97040_A_10432	NW_004516714.1	scaffold1530	10432	TT	CC	CC	INTERGENIC			
SNP_97041_A_10462	NW_004516714.1	scaffold1530	10462	TT	CC	CC	INTERGENIC			
SNP_97042_A_10507	NW_004516714.1	scaffold1530	10507	TT	AA	AA	INTERGENIC			
SNP_97043_A_13129	NW_004516714.1	scaffold1530	13129	GG	AA	AA	INTERGENIC			
SNP_97044_A_13385	NW_004516714.1	scaffold1530	13385	AA	TT	TT	INTERGENIC			
SNP_97045_A_13457	NW_004516714.1	scaffold1530	13457	GG	TT	TT	INTERGENIC			
SNP_97046_A_13460	NW_004516714.1	scaffold1530	13460	TT	CC	CC	INTERGENIC			
SNP_97047_A_13465	NW_004516714.1	scaffold1530	13465	CC	AA	AA	INTERGENIC			
SNP_97048_A_13510	NW_004516714.1	scaffold1530	13510	TT	CC	CC	INTERGENIC			
SNP_97049_A_13548	NW_004516714.1	scaffold1530	13548	GG	AA	AA	INTERGENIC			
SNP_97050_A_13628	NW_004516714.1	scaffold1530	13628	TT	CC	CC	INTERGENIC			
SNP_97051_A_13752	NW_004516714.1	scaffold1530	13752	TT	CC	CC	INTERGENIC			
SNP_97052_A_13811	NW_004516714.1	scaffold1530	13811	GG	CC	CC	INTERGENIC			
SNP_97053_A_14007	NW_004516714.1	scaffold1530	14007	AA	GG	GG	INTERGENIC			
SNP_97054_A_14203	NW_004516714.1	scaffold1530	14203	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97055_A_14488	NW_004516714.1	scaffold1530	14488	GG	TT	TT	INTERGENIC			
SNP_97056_A_14647	NW_004516714.1	scaffold1530	14647	TT	CC	CC	INTERGENIC			
SNP_97057_A_14720	NW_004516714.1	scaffold1530	14720	TT	GG	GG	INTERGENIC			
SNP_97058_A_14755	NW_004516714.1	scaffold1530	14755	TT	CC	CC	INTERGENIC			
SNP_97059_A_14924	NW_004516714.1	scaffold1530	14924	AA	GG	GG	INTERGENIC			
SNP_97060_A_14976	NW_004516714.1	scaffold1530	14976	AA	CC	CC	INTERGENIC			
SNP_97061_A_15043	NW_004516714.1	scaffold1530	15043	TT	AA	AA	INTERGENIC			
SNP_97062_A_15046	NW_004516714.1	scaffold1530	15046	GG	AA	AA	INTERGENIC			
SNP_97063_A_15089	NW_004516714.1	scaffold1530	15089	CC	TT	TT	INTERGENIC			
SNP_97065_A_16172	NW_004516714.1	scaffold1530	16172	GG	AA	AA	INTERGENIC			
SNP_97066_A_16440	NW_004516714.1	scaffold1530	16440	GG	AA	AA	INTERGENIC			
SNP_97067_A_16460	NW_004516714.1	scaffold1530	16460	CC	TT	TT	INTERGENIC			
SNP_97068_A_16525	NW_004516714.1	scaffold1530	16525	GG	AA	AA	INTERGENIC			
SNP_97069_A_16658	NW_004516714.1	scaffold1530	16658	GG	CC	CC	INTERGENIC			
SNP_97070_A_16847	NW_004516714.1	scaffold1530	16847	GG	AA	AA	INTERGENIC			
SNP_97071_A_16865	NW_004516714.1	scaffold1530	16865	AA	CC	CC	INTERGENIC			
SNP_97072_A_16890	NW_004516714.1	scaffold1530	16890	GG	CC	CC	INTERGENIC			
SNP_97073_A_16998	NW_004516714.1	scaffold1530	16998	CC	TT	TT	INTERGENIC			
SNP_97074_A_17184	NW_004516714.1	scaffold1530	17184	AA	GG	GG	INTERGENIC			
SNP_97075_A_17477	NW_004516714.1	scaffold1530	17477	GG	AA	AA	INTERGENIC			
SNP_97076_A_17510	NW_004516714.1	scaffold1530	17510	CC	AA	AA	INTERGENIC			
SNP_97078_A_17710	NW_004516714.1	scaffold1530	17710	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97079_A_17769	NW_004516714.1	scaffold1530	17769	GG	CC	CC	INTERGENIC			
SNP_97080_A_17792	NW_004516714.1	scaffold1530	17792	GG	TT	TT	INTERGENIC			
SNP_97081_A_17814	NW_004516714.1	scaffold1530	17814	GG	TT	TT	INTERGENIC			
SNP_97082_A_17883	NW_004516714.1	scaffold1530	17883	CC	TT	TT	INTERGENIC			
SNP_97083_A_17889	NW_004516714.1	scaffold1530	17889	GG	TT	TT	INTERGENIC			
SNP_97084_A_17890	NW_004516714.1	scaffold1530	17890	AA	TT	TT	INTERGENIC			
SNP_97085_A_17919	NW_004516714.1	scaffold1530	17919	TT	AA	AA	INTERGENIC			
SNP_97086_A_17997	NW_004516714.1	scaffold1530	17997	CC	TT	TT	INTERGENIC			
SNP_97087_A_18077	NW_004516714.1	scaffold1530	18077	GG	AA	AA	INTERGENIC			
SNP_97088_A_18838	NW_004516714.1	scaffold1530	18838	GG	AA	AA	INTERGENIC			
SNP_97089_A_18839	NW_004516714.1	scaffold1530	18839	AA	GG	GG	INTERGENIC			
SNP_97090_A_18918	NW_004516714.1	scaffold1530	18918	CC	AA	AA	INTERGENIC			
SNP_97091_A_18929	NW_004516714.1	scaffold1530	18929	GG	TT	TT	INTERGENIC			
SNP_97092_A_18932	NW_004516714.1	scaffold1530	18932	AA	GG	GG	INTERGENIC			
SNP_97094_A_19158	NW_004516714.1	scaffold1530	19158	GG	TT	TT	INTERGENIC			
SNP_97095_A_19165	NW_004516714.1	scaffold1530	19165	GG	AA	AA	INTERGENIC			
SNP_97096_A_19186	NW_004516714.1	scaffold1530	19186	AA	TT	TT	INTERGENIC			
SNP_97097_A_19420	NW_004516714.1	scaffold1530	19420	AA	TT	TT	INTERGENIC			
SNP_97098_A_19443	NW_004516714.1	scaffold1530	19443	CC	GG	GG	INTERGENIC			
SNP_97099_A_19735	NW_004516714.1	scaffold1530	19735	TT	AA	AA	INTERGENIC			
SNP_97100_A_19742	NW_004516714.1	scaffold1530	19742	CC	TT	TT	INTERGENIC			
SNP_97101_A_19957	NW_004516714.1	scaffold1530	19957	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97102_A_19958	NW_004516714.1	scaffold1530	19958	GG	AA	AA	INTERGENIC			
SNP_97103_A_20007	NW_004516714.1	scaffold1530	20007	CC	GG	GG	INTERGENIC			
SNP_97104_A_20457	NW_004516714.1	scaffold1530	20457	CC	TT	TT	INTERGENIC			
SNP_97105_A_20653	NW_004516714.1	scaffold1530	20653	AA	GG	GG	INTERGENIC			
SNP_97106_A_20799	NW_004516714.1	scaffold1530	20799	TT	AA	AA	INTERGENIC			
SNP_97107_A_20825	NW_004516714.1	scaffold1530	20825	GG	AA	AA	INTERGENIC			
SNP_97108_A_21032	NW_004516714.1	scaffold1530	21032	AA	TT	TT	INTERGENIC			
SNP_97110_A_21189	NW_004516714.1	scaffold1530	21189	AA	GG	GG	INTERGENIC			
SNP_97111_A_21234	NW_004516714.1	scaffold1530	21234	CC	TT	TT	INTERGENIC			
SNP_97112_A_21256	NW_004516714.1	scaffold1530	21256	GG	AA	AA	INTERGENIC			
SNP_97113_A_21327	NW_004516714.1	scaffold1530	21327	GG	AA	AA	INTERGENIC			
SNP_97114_A_21344	NW_004516714.1	scaffold1530	21344	AA	GG	GG	INTERGENIC			
SNP_97115_A_21399	NW_004516714.1	scaffold1530	21399	GG	AA	AA	INTERGENIC			
SNP_97116_A_21410	NW_004516714.1	scaffold1530	21410	AA	GG	GG	INTERGENIC			
SNP_97117_A_21416	NW_004516714.1	scaffold1530	21416	AA	CC	CC	INTERGENIC			
SNP_97118_A_21420	NW_004516714.1	scaffold1530	21420	CC	AA	AA	INTERGENIC			
SNP_97119_A_21430	NW_004516714.1	scaffold1530	21430	AA	CC	CC	INTERGENIC			
SNP_97120_A_21451	NW_004516714.1	scaffold1530	21451	GG	AA	AA	INTERGENIC			
SNP_97121_A_21510	NW_004516714.1	scaffold1530	21510	TT	CC	CC	INTERGENIC			
SNP_97122_A_21520	NW_004516714.1	scaffold1530	21520	AA	GG	GG	INTERGENIC			
SNP_97123_A_21577	NW_004516714.1	scaffold1530	21577	GG	TT	TT	INTERGENIC			
SNP_97124_A_21582	NW_004516714.1	scaffold1530	21582	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97125_A_21725	NW_004516714.1	scaffold1530	21725	CC	TT	TT	INTERGENIC			
SNP_97126_A_21821	NW_004516714.1	scaffold1530	21821	TT	CC	CC	INTERGENIC			
SNP_97127_A_21852	NW_004516714.1	scaffold1530	21852	GG	AA	AA	INTERGENIC			
SNP_97128_A_22141	NW_004516714.1	scaffold1530	22141	AA	GG	GG	INTERGENIC			
SNP_97129_A_22158	NW_004516714.1	scaffold1530	22158	GG	TT	TT	INTERGENIC			
SNP_97130_A_22214	NW_004516714.1	scaffold1530	22214	GG	TT	TT	INTERGENIC			
SNP_97131_A_22280	NW_004516714.1	scaffold1530	22280	TT	CC	CC	INTERGENIC			
SNP_97132_A_22298	NW_004516714.1	scaffold1530	22298	CC	TT	TT	INTERGENIC			
SNP_97133_A_22300	NW_004516714.1	scaffold1530	22300	CC	TT	TT	INTERGENIC			
SNP_97134_A_22322	NW_004516714.1	scaffold1530	22322	TT	CC	CC	INTERGENIC			
SNP_97135_A_22403	NW_004516714.1	scaffold1530	22403	AA	GG	GG	INTERGENIC			
SNP_97136_A_22465	NW_004516714.1	scaffold1530	22465	GG	AA	AA	INTERGENIC			
SNP_97137_A_22491	NW_004516714.1	scaffold1530	22491	AA	GG	GG	INTERGENIC			
SNP_97138_A_22520	NW_004516714.1	scaffold1530	22520	GG	CC	CC	INTERGENIC			
SNP_97139_A_22563	NW_004516714.1	scaffold1530	22563	CC	TT	TT	INTERGENIC			
SNP_97140_A_22595	NW_004516714.1	scaffold1530	22595	AA	GG	GG	INTERGENIC			
SNP_97141_A_23014	NW_004516714.1	scaffold1530	23014	AA	GG	GG	INTERGENIC			
SNP_97143_A_23612	NW_004516714.1	scaffold1530	23612	AA	TT	TT	INTERGENIC			
SNP_97144_A_23711	NW_004516714.1	scaffold1530	23711	AA	GG	GG	INTERGENIC			
SNP_97145_A_23858	NW_004516714.1	scaffold1530	23858	CC	AA	AA	INTERGENIC			
SNP_97146_A_23866	NW_004516714.1	scaffold1530	23866	TT	AA	AA	INTERGENIC			
SNP_97147_A_23895	NW_004516714.1	scaffold1530	23895	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97148_A_23906	NW_004516714.1	scaffold1530	23906	AA	CC	CC	INTERGENIC			
SNP_97149_A_23918	NW_004516714.1	scaffold1530	23918	CC	AA	AA	INTERGENIC			
SNP_97150_A_24066	NW_004516714.1	scaffold1530	24066	TT	CC	CC	INTERGENIC			
SNP_97151_A_24232	NW_004516714.1	scaffold1530	24232	CC	AA	AA	INTERGENIC			
SNP_97152_A_24256	NW_004516714.1	scaffold1530	24256	TT	GG	GG	INTERGENIC			
SNP_97153_A_24313	NW_004516714.1	scaffold1530	24313	CC	GG	GG	INTERGENIC			
SNP_97154_A_24427	NW_004516714.1	scaffold1530	24427	TT	CC	CC	INTERGENIC			
SNP_97156_A_24470	NW_004516714.1	scaffold1530	24470	CC	TT	TT	INTERGENIC			
SNP_97157_A_24528	NW_004516714.1	scaffold1530	24528	AA	GG	GG	INTERGENIC			
SNP_97158_A_24604	NW_004516714.1	scaffold1530	24604	AA	GG	GG	INTERGENIC			
SNP_97159_A_24621	NW_004516714.1	scaffold1530	24621	AA	GG	GG	INTERGENIC			
SNP_97160_A_24638	NW_004516714.1	scaffold1530	24638	TT	CC	CC	INTERGENIC			
SNP_97161_A_24686	NW_004516714.1	scaffold1530	24686	AA	GG	GG	INTERGENIC			
SNP_97163_A_24718	NW_004516714.1	scaffold1530	24718	AA	TT	TT	INTERGENIC			
SNP_97164_A_24741	NW_004516714.1	scaffold1530	24741	TT	AA	AA	INTERGENIC			
SNP_97165_A_24781	NW_004516714.1	scaffold1530	24781	CC	TT	TT	INTERGENIC			
SNP_97166_A_25059	NW_004516714.1	scaffold1530	25059	TT	CC	CC	INTERGENIC			
SNP_97167_A_25074	NW_004516714.1	scaffold1530	25074	GG	AA	AA	INTERGENIC			
SNP_97168_A_25097	NW_004516714.1	scaffold1530	25097	CC	AA	AA	INTERGENIC			
SNP_97169_A_25098	NW_004516714.1	scaffold1530	25098	GG	AA	AA	INTERGENIC			
SNP_97170_A_25101	NW_004516714.1	scaffold1530	25101	TT	GG	GG	INTERGENIC			
SNP_97171_A_25111	NW_004516714.1	scaffold1530	25111	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97172_A_25144	NW_004516714.1	scaffold1530	25144	TT	CC	CC	INTERGENIC			
SNP_97173_A_25160	NW_004516714.1	scaffold1530	25160	TT	CC	CC	INTERGENIC			
SNP_97174_A_25223	NW_004516714.1	scaffold1530	25223	TT	AA	AA	INTERGENIC			
SNP_97175_A_25224	NW_004516714.1	scaffold1530	25224	TT	AA	AA	INTERGENIC			
SNP_97176_A_25399	NW_004516714.1	scaffold1530	25399	TT	CC	CC	INTERGENIC			
SNP_97177_A_25441	NW_004516714.1	scaffold1530	25441	TT	AA	AA	INTERGENIC			
SNP_97178_A_25485	NW_004516714.1	scaffold1530	25485	AA	GG	GG	INTERGENIC			
SNP_97180_A_25535	NW_004516714.1	scaffold1530	25535	GG	TT	TT	INTERGENIC			
SNP_97181_A_25629	NW_004516714.1	scaffold1530	25629	CC	GG	GG	INTERGENIC			
SNP_97182_A_25706	NW_004516714.1	scaffold1530	25706	CC	GG	GG	INTERGENIC			
SNP_97183_A_25823	NW_004516714.1	scaffold1530	25823	GG	AA	AA	INTERGENIC			
SNP_97185_A_25908	NW_004516714.1	scaffold1530	25908	AA	GG	GG	INTERGENIC			
SNP_97186_A_25987	NW_004516714.1	scaffold1530	25987	AA	GG	GG	INTERGENIC			
SNP_97187_A_26013	NW_004516714.1	scaffold1530	26013	TT	CC	CC	INTERGENIC			
SNP_97188_A_26023	NW_004516714.1	scaffold1530	26023	CC	TT	TT	INTERGENIC			
SNP_97189_A_26147	NW_004516714.1	scaffold1530	26147	GG	TT	TT	INTERGENIC			
SNP_97190_A_26244	NW_004516714.1	scaffold1530	26244	AA	TT	TT	INTERGENIC			
SNP_97191_A_26262	NW_004516714.1	scaffold1530	26262	AA	TT	TT	INTERGENIC			
SNP_97192_A_26270	NW_004516714.1	scaffold1530	26270	GG	AA	AA	INTERGENIC			
SNP_97193_A_26363	NW_004516714.1	scaffold1530	26363	CC	TT	TT	INTERGENIC			
SNP_97194_A_26417	NW_004516714.1	scaffold1530	26417	CC	AA	AA	INTERGENIC			
SNP_97195_A_26432	NW_004516714.1	scaffold1530	26432	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97196_A_26462	NW_004516714.1	scaffold1530	26462	TT	CC	CC	INTERGENIC			
SNP_97197_A_26542	NW_004516714.1	scaffold1530	26542	TT	AA	AA	INTERGENIC			
SNP_97198_A_26557	NW_004516714.1	scaffold1530	26557	AA	GG	GG	INTERGENIC			
SNP_97199_A_26603	NW_004516714.1	scaffold1530	26603	AA	TT	TT	INTERGENIC			
SNP_97201_A_26782	NW_004516714.1	scaffold1530	26782	AA	GG	GG	INTERGENIC			
SNP_97202_A_27016	NW_004516714.1	scaffold1530	27016	AA	GG	GG	INTERGENIC			
SNP_97203_A_27025	NW_004516714.1	scaffold1530	27025	TT	CC	CC	INTERGENIC			
SNP_97205_A_27115	NW_004516714.1	scaffold1530	27115	TT	CC	CC	INTERGENIC			
SNP_97207_A_27386	NW_004516714.1	scaffold1530	27386	GG	AA	AA	INTERGENIC			
SNP_97208_A_27476	NW_004516714.1	scaffold1530	27476	TT	AA	AA	INTERGENIC			
SNP_97209_A_27480	NW_004516714.1	scaffold1530	27480	AA	TT	TT	INTERGENIC			
SNP_97210_A_27582	NW_004516714.1	scaffold1530	27582	AA	GG	GG	INTERGENIC			
SNP_97211_A_27592	NW_004516714.1	scaffold1530	27592	AA	GG	GG	INTERGENIC			
SNP_97212_A_27737	NW_004516714.1	scaffold1530	27737	TT	CC	CC	INTERGENIC			
SNP_97214_A_27835	NW_004516714.1	scaffold1530	27835	AA	GG	GG	INTERGENIC			
SNP_97215_A_27873	NW_004516714.1	scaffold1530	27873	GG	TT	TT	INTERGENIC			
SNP_97217_A_28052	NW_004516714.1	scaffold1530	28052	GG	AA	AA	INTERGENIC			
SNP_97218_A_28165	NW_004516714.1	scaffold1530	28165	GG	AA	AA	INTERGENIC			
SNP_97219_A_28179	NW_004516714.1	scaffold1530	28179	AA	TT	TT	INTERGENIC			
SNP_97220_A_28275	NW_004516714.1	scaffold1530	28275	TT	CC	CC	INTERGENIC			
SNP_97221_A_28342	NW_004516714.1	scaffold1530	28342	AA	GG	GG	INTERGENIC			
SNP_97222_A_28360	NW_004516714.1	scaffold1530	28360	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97224_A_28454	NW_004516714.1	scaffold1530	28454	AA	TT	TT	INTERGENIC			
SNP_97225_A_28599	NW_004516714.1	scaffold1530	28599	CC	AA	AA	INTERGENIC			
SNP_97226_A_28621	NW_004516714.1	scaffold1530	28621	GG	AA	AA	INTERGENIC			
SNP_97227_A_28626	NW_004516714.1	scaffold1530	28626	CC	TT	TT	INTERGENIC			
SNP_97228_A_28652	NW_004516714.1	scaffold1530	28652	TT	GG	GG	INTERGENIC			
SNP_97229_A_28671	NW_004516714.1	scaffold1530	28671	CC	TT	TT	INTERGENIC			
SNP_97230_A_28710	NW_004516714.1	scaffold1530	28710	TT	CC	CC	INTERGENIC			
SNP_97231_A_28716	NW_004516714.1	scaffold1530	28716	AA	GG	GG	INTERGENIC			
SNP_97233_A_28888	NW_004516714.1	scaffold1530	28888	CC	TT	TT	INTERGENIC			
SNP_97234_A_517	NW_004516715.1	scaffold1531	517	CC	TT	TT	INTERGENIC			
SNP_97235_A_778	NW_004516715.1	scaffold1531	778	AA	TT	TT	INTERGENIC			
SNP_97236_A_3785	NW_004516715.1	scaffold1531	3785	GG	AA	AA	INTERGENIC			
SNP_97237_A_3984	NW_004516715.1	scaffold1531	3984	CC	GG	GG	INTERGENIC			
SNP_97238_A_4236	NW_004516715.1	scaffold1531	4236	GG	TT	TT	INTERGENIC			
SNP_97239_A_21993	NW_004516715.1	scaffold1531	21993	AA	CC	CC	INTERGENIC			
SNP_97240_A_22282	NW_004516715.1	scaffold1531	22282	CC	TT	TT	INTERGENIC			
SNP_97241_A_23951	NW_004516715.1	scaffold1531	23951	TT	CC	CC	INTERGENIC			
SNP_97242_A_24027	NW_004516715.1	scaffold1531	24027	CC	AA	AA	INTERGENIC			
SNP_97243_A_24030	NW_004516715.1	scaffold1531	24030	CC	GG	GG	INTERGENIC			
SNP_97244_A_24251	NW_004516715.1	scaffold1531	24251	AA	GG	GG	INTERGENIC			
SNP_97245_A_24341	NW_004516715.1	scaffold1531	24341	TT	CC	CC	INTERGENIC			
SNP_97246_A_24349	NW_004516715.1	scaffold1531	24349	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97247_A_24525	NW_004516715.1	scaffold1531	24525	GG	CC	CC	INTERGENIC			
SNP_97248_A_24529	NW_004516715.1	scaffold1531	24529	CC	TT	TT	INTERGENIC			
SNP_97249_A_24546	NW_004516715.1	scaffold1531	24546	CC	AA	AA	INTERGENIC			
SNP_97250_A_24547	NW_004516715.1	scaffold1531	24547	AA	GG	GG	INTERGENIC			
SNP_97251_A_24858	NW_004516715.1	scaffold1531	24858	CC	AA	AA	INTERGENIC			
SNP_97252_A_24868	NW_004516715.1	scaffold1531	24868	AA	CC	CC	INTERGENIC			
SNP_97253_A_24875	NW_004516715.1	scaffold1531	24875	GG	TT	TT	INTERGENIC			
SNP_97255_A_24941	NW_004516715.1	scaffold1531	24941	GG	AA	AA	INTERGENIC			
SNP_97257_A_25698	NW_004516715.1	scaffold1531	25698	TT	AA	AA	INTERGENIC			
SNP_97258_A_25925	NW_004516715.1	scaffold1531	25925	AA	GG	GG	INTERGENIC			
SNP_97259_A_25931	NW_004516715.1	scaffold1531	25931	TT	CC	CC	INTERGENIC			
SNP_97260_A_25945	NW_004516715.1	scaffold1531	25945	CC	GG	GG	INTERGENIC			
SNP_97261_A_26082	NW_004516715.1	scaffold1531	26082	CC	TT	TT	INTERGENIC			
SNP_97262_A_26084	NW_004516715.1	scaffold1531	26084	TT	AA	AA	INTERGENIC			
SNP_97263_A_26550	NW_004516715.1	scaffold1531	26550	CC	AA	AA	INTERGENIC			
SNP_97264_A_26771	NW_004516715.1	scaffold1531	26771	TT	GG	GG	INTERGENIC			
SNP_97265_A_26777	NW_004516715.1	scaffold1531	26777	TT	CC	CC	INTERGENIC			
SNP_97266_A_26807	NW_004516715.1	scaffold1531	26807	CC	AA	AA	INTERGENIC			
SNP_97269_A_27206	NW_004516715.1	scaffold1531	27206	AA	GG	GG	INTERGENIC			
SNP_97270_A_27767	NW_004516715.1	scaffold1531	27767	AA	GG	GG	INTERGENIC			
SNP_97271_A_27820	NW_004516715.1	scaffold1531	27820	AA	GG	GG	INTERGENIC			
SNP_97272_A_27856	NW_004516715.1	scaffold1531	27856	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97273_A_27884	NW_004516715.1	scaffold1531	27884	AA	TT	TT	INTERGENIC			
SNP_97274_A_27941	NW_004516715.1	scaffold1531	27941	TT	CC	CC	INTERGENIC			
SNP_97275_A_27959	NW_004516715.1	scaffold1531	27959	CC	GG	GG	INTERGENIC			
SNP_97276_A_28008	NW_004516715.1	scaffold1531	28008	GG	AA	AA	INTERGENIC			
SNP_97277_A_28034	NW_004516715.1	scaffold1531	28034	TT	CC	CC	INTERGENIC			
SNP_97278_A_28138	NW_004516715.1	scaffold1531	28138	TT	AA	AA	INTERGENIC			
SNP_97279_A_28145	NW_004516715.1	scaffold1531	28145	GG	AA	AA	INTERGENIC			
SNP_97280_A_28175	NW_004516715.1	scaffold1531	28175	TT	GG	GG	INTERGENIC			
SNP_97281_A_28187	NW_004516715.1	scaffold1531	28187	CC	AA	AA	INTERGENIC			
SNP_97282_A_28363	NW_004516715.1	scaffold1531	28363	TT	GG	GG	INTERGENIC			
SNP_97283_A_28435	NW_004516715.1	scaffold1531	28435	CC	AA	AA	INTERGENIC			
SNP_97284_A_28443	NW_004516715.1	scaffold1531	28443	CC	AA	AA	INTERGENIC			
SNP_97285_A_28494	NW_004516715.1	scaffold1531	28494	AA	GG	GG	INTERGENIC			
SNP_97286_A_28528	NW_004516715.1	scaffold1531	28528	TT	CC	CC	INTERGENIC			
SNP_97287_A_28531	NW_004516715.1	scaffold1531	28531	GG	AA	AA	INTERGENIC			
SNP_97288_A_28564	NW_004516715.1	scaffold1531	28564	TT	AA	AA	INTERGENIC			
SNP_97289_A_28579	NW_004516715.1	scaffold1531	28579	AA	CC	CC	INTERGENIC			
SNP_97290_A_28589	NW_004516715.1	scaffold1531	28589	GG	TT	TT	INTERGENIC			
SNP_97291_A_28623	NW_004516715.1	scaffold1531	28623	AA	TT	TT	INTERGENIC			
SNP_97292_A_28644	NW_004516715.1	scaffold1531	28644	TT	GG	GG	INTERGENIC			
SNP_97293_A_28790	NW_004516715.1	scaffold1531	28790	AA	GG	GG	INTERGENIC			
SNP_97294_A_28795	NW_004516715.1	scaffold1531	28795	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97295_A_28908	NW_004516715.1	scaffold1531	28908	AA	GG	GG	INTERGENIC			
SNP_97296_A_28925	NW_004516715.1	scaffold1531	28925	GG	CC	CC	INTERGENIC			
SNP_97297_A_28972	NW_004516715.1	scaffold1531	28972	GG	AA	AA	INTERGENIC			
SNP_97298_A_29017	NW_004516715.1	scaffold1531	29017	CC	TT	TT	INTERGENIC			
SNP_97299_A_29064	NW_004516715.1	scaffold1531	29064	TT	CC	CC	INTERGENIC			
SNP_97300_A_29106	NW_004516715.1	scaffold1531	29106	GG	AA	AA	INTERGENIC			
SNP_97301_A_29133	NW_004516715.1	scaffold1531	29133	CC	TT	TT	INTERGENIC			
SNP_97302_A_29158	NW_004516715.1	scaffold1531	29158	TT	AA	AA	INTERGENIC			
SNP_97303_A_29214	NW_004516715.1	scaffold1531	29214	GG	TT	TT	INTERGENIC			
SNP_97304_A_29221	NW_004516715.1	scaffold1531	29221	TT	AA	AA	INTERGENIC			
SNP_97305_A_29265	NW_004516715.1	scaffold1531	29265	TT	AA	AA	INTERGENIC			
SNP_97306_A_29276	NW_004516715.1	scaffold1531	29276	GG	AA	AA	INTERGENIC			
SNP_97307_A_29327	NW_004516715.1	scaffold1531	29327	TT	GG	GG	INTERGENIC			
SNP_97308_A_29344	NW_004516715.1	scaffold1531	29344	GG	CC	CC	INTERGENIC			
SNP_97309_A_29362	NW_004516715.1	scaffold1531	29362	CC	GG	GG	INTERGENIC			
SNP_97310_A_29403	NW_004516715.1	scaffold1531	29403	GG	CC	CC	INTERGENIC			
SNP_97311_A_29421	NW_004516715.1	scaffold1531	29421	GG	CC	CC	INTERGENIC			
SNP_97312_A_29423	NW_004516715.1	scaffold1531	29423	GG	AA	AA	INTERGENIC			
SNP_97314_A_29460	NW_004516715.1	scaffold1531	29460	GG	TT	TT	INTERGENIC			
SNP_97315_A_29509	NW_004516715.1	scaffold1531	29509	AA	TT	TT	INTERGENIC			
SNP_97316_A_29605	NW_004516715.1	scaffold1531	29605	CC	TT	TT	INTERGENIC			
SNP_97317_A_29606	NW_004516715.1	scaffold1531	29606	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97318_A_30003	NW_004516715.1	scaffold1531	30003	TT	AA	AA	INTERGENIC			
SNP_97319_A_30234	NW_004516715.1	scaffold1531	30234	AA	GG	GG	INTERGENIC			
SNP_97320_A_34785	NW_004516715.1	scaffold1531	34785	GG	AA	AA	INTERGENIC			
SNP_97321_A_34799	NW_004516715.1	scaffold1531	34799	GG	AA	AA	INTERGENIC			
SNP_97322_A_34841	NW_004516715.1	scaffold1531	34841	CC	TT	TT	INTERGENIC			
SNP_97323_A_34931	NW_004516715.1	scaffold1531	34931	AA	TT	TT	INTERGENIC			
SNP_97324_A_34957	NW_004516715.1	scaffold1531	34957	AA	TT	TT	INTERGENIC			
SNP_97325_A_34989	NW_004516715.1	scaffold1531	34989	TT	CC	CC	INTERGENIC			
SNP_97326_A_35117	NW_004516715.1	scaffold1531	35117	TT	CC	CC	INTERGENIC			
SNP_97327_A_35143	NW_004516715.1	scaffold1531	35143	TT	GG	GG	INTERGENIC			
SNP_97328_A_35192	NW_004516715.1	scaffold1531	35192	CC	TT	TT	INTERGENIC			
SNP_97329_A_35245	NW_004516715.1	scaffold1531	35245	CC	AA	AA	INTERGENIC			
SNP_97330_A_35602	NW_004516715.1	scaffold1531	35602	AA	CC	CC	INTERGENIC			
SNP_97331_A_35650	NW_004516715.1	scaffold1531	35650	GG	TT	TT	INTERGENIC			
SNP_97332_A_35654	NW_004516715.1	scaffold1531	35654	CC	TT	TT	INTERGENIC			
SNP_97333_A_35684	NW_004516715.1	scaffold1531	35684	GG	AA	AA	INTERGENIC			
SNP_97334_A_35733	NW_004516715.1	scaffold1531	35733	AA	GG	GG	INTERGENIC			
SNP_97335_A_35817	NW_004516715.1	scaffold1531	35817	TT	CC	CC	INTERGENIC			
SNP_97336_A_35831	NW_004516715.1	scaffold1531	35831	TT	AA	AA	INTERGENIC			
SNP_97337_A_35838	NW_004516715.1	scaffold1531	35838	CC	GG	GG	INTERGENIC			
SNP_97338_A_35879	NW_004516715.1	scaffold1531	35879	TT	CC	CC	INTERGENIC			
SNP_97339_A_36028	NW_004516715.1	scaffold1531	36028	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97340_A_36119	NW_004516715.1	scaffold1531	36119	CC	GG	GG	INTERGENIC			
SNP_97341_A_36129	NW_004516715.1	scaffold1531	36129	CC	AA	AA	INTERGENIC			
SNP_97342_A_36252	NW_004516715.1	scaffold1531	36252	GG	AA	AA	INTERGENIC			
SNP_97343_A_36269	NW_004516715.1	scaffold1531	36269	AA	TT	TT	INTERGENIC			
SNP_97344_A_36289	NW_004516715.1	scaffold1531	36289	GG	TT	TT	INTERGENIC			
SNP_97345_A_36292	NW_004516715.1	scaffold1531	36292	TT	AA	AA	INTERGENIC			
SNP_97346_A_36586	NW_004516715.1	scaffold1531	36586	AA	GG	GG	INTERGENIC			
SNP_97347_A_36590	NW_004516715.1	scaffold1531	36590	AA	GG	GG	INTERGENIC			
SNP_97348_A_36591	NW_004516715.1	scaffold1531	36591	GG	TT	TT	INTERGENIC			
SNP_97349_A_36690	NW_004516715.1	scaffold1531	36690	TT	CC	CC	INTERGENIC			
SNP_97350_A_36738	NW_004516715.1	scaffold1531	36738	CC	GG	GG	INTERGENIC			
SNP_97351_A_36824	NW_004516715.1	scaffold1531	36824	GG	TT	TT	INTERGENIC			
SNP_97352_A_36873	NW_004516715.1	scaffold1531	36873	AA	TT	TT	INTERGENIC			
SNP_97353_A_37166	NW_004516715.1	scaffold1531	37166	CC	TT	TT	INTERGENIC			
SNP_97354_A_37226	NW_004516715.1	scaffold1531	37226	GG	AA	AA	INTERGENIC			
SNP_97355_A_37778	NW_004516715.1	scaffold1531	37778	CC	TT	TT	INTERGENIC			
SNP_97356_A_37814	NW_004516715.1	scaffold1531	37814	TT	CC	CC	INTERGENIC			
SNP_97357_A_37909	NW_004516715.1	scaffold1531	37909	TT	GG	GG	INTERGENIC			
SNP_97358_A_37964	NW_004516715.1	scaffold1531	37964	CC	TT	TT	INTERGENIC			
SNP_97359_A_37978	NW_004516715.1	scaffold1531	37978	CC	TT	TT	INTERGENIC			
SNP_97360_A_38017	NW_004516715.1	scaffold1531	38017	TT	CC	CC	INTERGENIC			
SNP_97361_A_38044	NW_004516715.1	scaffold1531	38044	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97362_A_38156	NW_004516715.1	scaffold1531	38156	AA	TT	TT	INTERGENIC			
SNP_97363_A_38239	NW_004516715.1	scaffold1531	38239	TT	CC	CC	INTERGENIC			
SNP_97364_A_38258	NW_004516715.1	scaffold1531	38258	AA	TT	TT	INTERGENIC			
SNP_97365_A_39409	NW_004516715.1	scaffold1531	39409	AA	GG	GG	INTERGENIC			
SNP_97366_A_40573	NW_004516715.1	scaffold1531	40573	AA	GG	GG	INTERGENIC			
SNP_97367_A_7992	NW_004516716.1	scaffold1532	7992	TT	AA	AA	INTERGENIC			
SNP_97368_A_8283	NW_004516716.1	scaffold1532	8283	AA	CC	CC	INTERGENIC			
SNP_97369_A_8308	NW_004516716.1	scaffold1532	8308	AA	GG	GG	INTERGENIC			
SNP_97370_A_10243	NW_004516716.1	scaffold1532	10243	AA	GG	GG	INTERGENIC			
SNP_97371_A_10280	NW_004516716.1	scaffold1532	10280	CC	TT	TT	INTERGENIC			
SNP_97372_A_10288	NW_004516716.1	scaffold1532	10288	GG	AA	AA	INTERGENIC			
SNP_97373_A_10348	NW_004516716.1	scaffold1532	10348	AA	GG	GG	INTERGENIC			
SNP_97374_A_10527	NW_004516716.1	scaffold1532	10527	TT	CC	CC	INTERGENIC			
SNP_97375_A_10541	NW_004516716.1	scaffold1532	10541	CC	GG	GG	INTERGENIC			
SNP_97377_A_10685	NW_004516716.1	scaffold1532	10685	GG	CC	CC	INTERGENIC			
SNP_97378_A_10703	NW_004516716.1	scaffold1532	10703	TT	AA	AA	INTERGENIC			
SNP_97379_A_10823	NW_004516716.1	scaffold1532	10823	AA	GG	GG	INTERGENIC			
SNP_97380_A_10849	NW_004516716.1	scaffold1532	10849	CC	TT	TT	INTERGENIC			
SNP_97381_A_10855	NW_004516716.1	scaffold1532	10855	TT	AA	AA	INTERGENIC			
SNP_97382_A_15772	NW_004516716.1	scaffold1532	15772	AA	GG	GG	INTERGENIC			
SNP_97383_A_17484	NW_004516716.1	scaffold1532	17484	CC	TT	TT	INTERGENIC			
SNP_97384_A_18526	NW_004516716.1	scaffold1532	18526	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97385_A_22154	NW_004516716.1	scaffold1532	22154	AA	GG	GG	INTERGENIC			
SNP_97386_A_22161	NW_004516716.1	scaffold1532	22161	TT	CC	CC	INTERGENIC			
SNP_97387_A_22176	NW_004516716.1	scaffold1532	22176	TT	CC	CC	INTERGENIC			
SNP_97388_A_22182	NW_004516716.1	scaffold1532	22182	GG	AA	AA	INTERGENIC			
SNP_97389_A_22188	NW_004516716.1	scaffold1532	22188	AA	GG	GG	INTERGENIC			
SNP_97390_A_22190	NW_004516716.1	scaffold1532	22190	TT	CC	CC	INTERGENIC			
SNP_97391_A_22209	NW_004516716.1	scaffold1532	22209	TT	CC	CC	INTERGENIC			
SNP_97392_A_22606	NW_004516716.1	scaffold1532	22606	AA	GG	GG	INTERGENIC			
SNP_97393_A_24826	NW_004516716.1	scaffold1532	24826	AA	CC	CC	INTERGENIC			
SNP_97394_A_24851	NW_004516716.1	scaffold1532	24851	CC	TT	TT	INTERGENIC			
SNP_97395_A_25161	NW_004516716.1	scaffold1532	25161	CC	TT	TT	INTERGENIC			
SNP_97396_A_25182	NW_004516716.1	scaffold1532	25182	GG	TT	TT	INTERGENIC			
SNP_97397_A_25211	NW_004516716.1	scaffold1532	25211	GG	AA	AA	INTERGENIC			
SNP_97398_A_25236	NW_004516716.1	scaffold1532	25236	TT	CC	CC	INTERGENIC			
SNP_97399_A_25248	NW_004516716.1	scaffold1532	25248	GG	TT	TT	INTERGENIC			
SNP_97400_A_25270	NW_004516716.1	scaffold1532	25270	GG	AA	AA	INTERGENIC			
SNP_97401_A_25298	NW_004516716.1	scaffold1532	25298	TT	CC	CC	INTERGENIC			
SNP_97402_A_25299	NW_004516716.1	scaffold1532	25299	TT	CC	CC	INTERGENIC			
SNP_97403_A_25348	NW_004516716.1	scaffold1532	25348	TT	AA	AA	INTERGENIC			
SNP_97404_A_25466	NW_004516716.1	scaffold1532	25466	CC	TT	TT	INTERGENIC			
SNP_97405_A_25899	NW_004516716.1	scaffold1532	25899	GG	TT	TT	INTERGENIC			
SNP_97406_A_26119	NW_004516716.1	scaffold1532	26119	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_97407_A_26127	NW_004516716.1	scaffold1532	26127	TT	AA	AA	INTERGENIC		
SNP_97408_A_26362	NW_004516716.1	scaffold1532	26362	AA	TT	TT	INTERGENIC		
SNP_97409_A_29066	NW_004516716.1	scaffold1532	29066	GG	TT	TT	INTERGENIC		
SNP_97410_A_29105	NW_004516716.1	scaffold1532	29105	GG	AA	AA	INTERGENIC		
SNP_97411_A_29532	NW_004516716.1	scaffold1532	29532	TT	CC	CC	INTERGENIC		
SNP_97412_A_32814	NW_004516716.1	scaffold1532	32814	GG	TT	TT	INTERGENIC		
SNP_97413_A_45468	NW_004516716.1	scaffold1532	45468	CC	GG	GG	INTERGENIC		
SNP_97414_A_57881	NW_004516716.1	scaffold1532	57881	GG	TT	TT	INTERGENIC		
SNP_97415_A_65493	NW_004516716.1	scaffold1532	65493	CC	TT	TT	INTERGENIC		
SNP_97417_A_72912	NW_004516716.1	scaffold1532	72912	TT	CC	CC	INTERGENIC		
SNP_97418_A_82048	NW_004516716.1	scaffold1532	82048	CC	TT	TT	INTERGENIC		
SNP_97419_A_82069	NW_004516716.1	scaffold1532	82069	AA	CC	CC	INTERGENIC		
SNP_97420_A_82073	NW_004516716.1	scaffold1532	82073	TT	GG	GG	INTERGENIC		
SNP_97421_A_6734	NW_004516717.1	scaffold1533	6734	AA	GG	GG	INTERGENIC		
SNP_97422_A_11378	NW_004516717.1	scaffold1533	11378	CC	TT	TT	INTERGENIC		
SNP_97423_A_11385	NW_004516717.1	scaffold1533	11385	AA	CC	CC	INTERGENIC		
SNP_97424_A_11571	NW_004516717.1	scaffold1533	11571	AA	GG	GG	INTERGENIC		
SNP_97425_A_14484	NW_004516717.1	scaffold1533	14484	CC	TT	TT	INTRON	101512821	Unknown function
SNP_97426_A_14903	NW_004516717.1	scaffold1533	14903	AA	TT	TT	INTRON	101512821	Unknown function
SNP_97427_A_28342	NW_004516717.1	scaffold1533	28342	GG	TT	TT	INTRON	101512821	Unknown function
SNP_97430_A_65430	NW_004516717.1	scaffold1533	65430	AA	GG	GG	INTRON	101512821	Unknown function
SNP_97431_A_72467	NW_004516717.1	scaffold1533	72467	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97432_A_73857	NW_004516717.1	scaffold1533	73857	AA	GG	GG	INTERGENIC			
SNP_97433_A_84738	NW_004516717.1	scaffold1533	84738	AA	GG	GG	INTERGENIC			
SNP_97434_A_84748	NW_004516717.1	scaffold1533	84748	TT	CC	CC	INTERGENIC			
SNP_97435_A_88920	NW_004516717.1	scaffold1533	88920	CC	TT	TT	INTERGENIC			
SNP_97436_A_88972	NW_004516717.1	scaffold1533	88972	AA	CC	CC	INTERGENIC			
SNP_97437_A_89089	NW_004516717.1	scaffold1533	89089	TT	GG	GG	INTERGENIC			
SNP_97438_A_89332	NW_004516717.1	scaffold1533	89332	CC	TT	TT	INTERGENIC			
SNP_97439_A_89982	NW_004516717.1	scaffold1533	89982	TT	CC	CC	INTERGENIC			
SNP_97440_A_134928	NW_004516717.1	scaffold1533	134928	TT	GG	GG	INTERGENIC			
SNP_97441_A_134952	NW_004516717.1	scaffold1533	134952	GG	AA	AA	INTERGENIC			
SNP_97442_A_135156	NW_004516717.1	scaffold1533	135156	AA	GG	GG	INTERGENIC			
SNP_97443_A_135263	NW_004516717.1	scaffold1533	135263	TT	CC	CC	INTERGENIC			
SNP_97444_A_3034	NW_004516718.1	scaffold1535	3034	CC	GG	GG	URR	101513150	L-type lectin-domain containing receptor kinase IX.1-like	
SNP_97445_A_442	NW_004516720.1	scaffold1542	442	AA	GG	GG	INTERGENIC			
SNP_97446_A_7035	NW_004516720.1	scaffold1542	7035	TT	AA	AA	INTERGENIC			
SNP_97447_A_328	NW_004516721.1	scaffold1543	328	GG	TT	TT	INTERGENIC			
SNP_97448_A_644	NW_004516722.1	scaffold1544	644	TT	AA	AA	INTERGENIC			
SNP_97449_A_782	NW_004516722.1	scaffold1544	782	TT	GG	GG	INTERGENIC			
SNP_97450_A_830	NW_004516722.1	scaffold1544	830	CC	AA	AA	INTERGENIC			
SNP_97451_A_1190	NW_004516722.1	scaffold1544	1190	TT	AA	AA	INTERGENIC			
SNP_97452_A_1191	NW_004516722.1	scaffold1544	1191	GG	TT	TT	INTERGENIC			
SNP_97453_A_1589	NW_004516722.1	scaffold1544	1589	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97454_A_1656	NW_004516722.1	scaffold1544	1656	AA	TT	TT	INTERGENIC			
SNP_97455_A_1679	NW_004516722.1	scaffold1544	1679	CC	TT	TT	INTERGENIC			
SNP_97456_A_1705	NW_004516722.1	scaffold1544	1705	TT	CC	CC	INTERGENIC			
SNP_97457_A_1767	NW_004516722.1	scaffold1544	1767	AA	CC	CC	INTERGENIC			
SNP_97458_A_2411	NW_004516722.1	scaffold1544	2411	GG	AA	AA	INTERGENIC			
SNP_97459_A_2527	NW_004516722.1	scaffold1544	2527	TT	CC	CC	INTERGENIC			
SNP_97460_A_2804	NW_004516722.1	scaffold1544	2804	AA	GG	GG	INTERGENIC			
SNP_97461_A_2874	NW_004516722.1	scaffold1544	2874	GG	AA	AA	INTERGENIC			
SNP_97462_A_9076	NW_004516722.1	scaffold1544	9076	TT	GG	GG	INTERGENIC			
SNP_97463_A_9127	NW_004516722.1	scaffold1544	9127	CC	GG	GG	INTERGENIC			
SNP_97464_A_9308	NW_004516722.1	scaffold1544	9308	AA	TT	TT	INTERGENIC			
SNP_97465_A_9549	NW_004516722.1	scaffold1544	9549	TT	AA	AA	INTERGENIC			
SNP_97466_A_14187	NW_004516722.1	scaffold1544	14187	AA	GG	GG	INTERGENIC			
SNP_97467_A_14214	NW_004516722.1	scaffold1544	14214	GG	AA	AA	INTERGENIC			
SNP_97468_A_14401	NW_004516722.1	scaffold1544	14401	AA	TT	TT	INTERGENIC			
SNP_97469_A_14576	NW_004516722.1	scaffold1544	14576	GG	CC	CC	INTERGENIC			
SNP_97471_A_14944	NW_004516722.1	scaffold1544	14944	TT	CC	CC	INTERGENIC			
SNP_97472_A_39685	NW_004516723.1	scaffold1545	39685	AA	GG	GG	INTERGENIC			
SNP_97473_A_40031	NW_004516723.1	scaffold1545	40031	AA	GG	GG	INTERGENIC			
SNP_97474_A_60755	NW_004516723.1	scaffold1545	60755	TT	CC	CC	INTERGENIC			
SNP_97475_A_81342	NW_004516723.1	scaffold1545	81342	AA	TT	TT	INTERGENIC			
SNP_97476_A_81343	NW_004516723.1	scaffold1545	81343	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_97477_A_81400	NW_004516723.1	scaffold1545	81400	GG	CC	CC	INTERGENIC		
SNP_97478_A_81406	NW_004516723.1	scaffold1545	81406	TT	CC	CC	INTERGENIC		
SNP_97479_A_81521	NW_004516723.1	scaffold1545	81521	AA	GG	GG	INTERGENIC		
SNP_97480_A_81569	NW_004516723.1	scaffold1545	81569	AA	GG	GG	INTERGENIC		
SNP_97481_A_81648	NW_004516723.1	scaffold1545	81648	AA	GG	GG	INTERGENIC		
SNP_97482_A_81661	NW_004516723.1	scaffold1545	81661	CC	GG	GG	INTERGENIC		
SNP_97483_A_81665	NW_004516723.1	scaffold1545	81665	TT	GG	GG	INTERGENIC		
SNP_97484_A_81699	NW_004516723.1	scaffold1545	81699	AA	GG	GG	INTERGENIC		
SNP_97485_A_81763	NW_004516723.1	scaffold1545	81763	TT	GG	GG	INTERGENIC		
SNP_97486_A_81779	NW_004516723.1	scaffold1545	81779	TT	CC	CC	INTERGENIC		
SNP_97487_A_81786	NW_004516723.1	scaffold1545	81786	TT	CC	CC	INTERGENIC		
SNP_97488_A_81787	NW_004516723.1	scaffold1545	81787	TT	GG	GG	INTERGENIC		
SNP_97489_A_81790	NW_004516723.1	scaffold1545	81790	GG	AA	AA	INTERGENIC		
SNP_97490_A_81791	NW_004516723.1	scaffold1545	81791	AA	GG	GG	INTERGENIC		
SNP_97491_A_81797	NW_004516723.1	scaffold1545	81797	TT	AA	AA	INTERGENIC		
SNP_97492_A_81813	NW_004516723.1	scaffold1545	81813	AA	TT	TT	INTERGENIC		
SNP_97493_A_81855	NW_004516723.1	scaffold1545	81855	AA	GG	GG	INTERGENIC		
SNP_97494_A_81874	NW_004516723.1	scaffold1545	81874	AA	TT	TT	INTERGENIC		
SNP_97496_A_105061	NW_004516723.1	scaffold1545	105061	CC	TT	TT	INTERGENIC		
SNP_97497_A_192180	NW_004516723.1	scaffold1545	192180	GG	AA	AA	INTERGENIC		
SNP_97498_A_225105	NW_004516723.1	scaffold1545	225105	GG	TT	TT	NON_SYNONYMOUS_CODING	101515103	mitochondrial protein pet191 homolog
SNP_97499_A_237472	NW_004516723.1	scaffold1545	237472	CC	AA	AA	URR	101515428	uncharacterized LOC101515428

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_97500_A_237498	NW_004516723.1	scaffold1545	237498	TT	CC	CC	URR	101515428	uncharacterized LOC101515428
SNP_97501_A_237523	NW_004516723.1	scaffold1545	237523	AA	CC	CC	URR	101515428	uncharacterized LOC101515428
SNP_97502_A_268651	NW_004516723.1	scaffold1545	268651	CC	GG	GG	INTERGENIC		
SNP_97503_A_269162	NW_004516723.1	scaffold1545	269162	CC	AA	AA	INTERGENIC		
SNP_97504_A_288438	NW_004516723.1	scaffold1545	288438	AA	GG	GG	INTERGENIC		
SNP_97505_A_288461	NW_004516723.1	scaffold1545	288461	GG	CC	CC	INTERGENIC		
SNP_97506_A_76904	NW_004516724.1	scaffold1546	76904	GG	AA	AA	INTERGENIC		
SNP_97507_A_114119	NW_004516724.1	scaffold1546	114119	CC	AA	AA	INTERGENIC		
SNP_97508_A_127817	NW_004516724.1	scaffold1546	127817	GG	TT	TT	INTERGENIC		
SNP_97509_A_134708	NW_004516724.1	scaffold1546	134708	CC	TT	TT	INTERGENIC		
SNP_97510_A_137758	NW_004516724.1	scaffold1546	137758	CC	TT	TT	INTERGENIC		
SNP_97511_A_141049	NW_004516724.1	scaffold1546	141049	TT	GG	GG	INTERGENIC		
SNP_97512_A_141056	NW_004516724.1	scaffold1546	141056	GG	CC	CC	INTERGENIC		
SNP_97513_A_141062	NW_004516724.1	scaffold1546	141062	GG	AA	AA	INTERGENIC		
SNP_97514_A_141064	NW_004516724.1	scaffold1546	141064	AA	TT	TT	INTERGENIC		
SNP_97515_A_141072	NW_004516724.1	scaffold1546	141072	GG	AA	AA	INTERGENIC		
SNP_97516_A_141086	NW_004516724.1	scaffold1546	141086	CC	AA	AA	INTERGENIC		
SNP_97517_A_141115	NW_004516724.1	scaffold1546	141115	GG	TT	TT	INTERGENIC		
SNP_97518_A_141122	NW_004516724.1	scaffold1546	141122	AA	GG	GG	INTERGENIC		
SNP_97519_A_141381	NW_004516724.1	scaffold1546	141381	TT	GG	GG	INTERGENIC		
SNP_97520_A_141430	NW_004516724.1	scaffold1546	141430	CC	TT	TT	INTERGENIC		
SNP_97521_A_141503	NW_004516724.1	scaffold1546	141503	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97522_A_141511	NW_004516724.1	scaffold1546	141511	TT	CC	CC	INTERGENIC			
SNP_97523_A_141516	NW_004516724.1	scaffold1546	141516	GG	AA	AA	INTERGENIC			
SNP_97524_A_141772	NW_004516724.1	scaffold1546	141772	GG	AA	AA	INTERGENIC			
SNP_97525_A_141776	NW_004516724.1	scaffold1546	141776	AA	TT	TT	INTERGENIC			
SNP_97527_A_1173	NW_004516726.1	scaffold1548	1173	AA	GG	GG	INTERGENIC			
SNP_97528_A_1469	NW_004516726.1	scaffold1548	1469	GG	TT	TT	INTERGENIC			
SNP_97529_A_1557	NW_004516726.1	scaffold1548	1557	AA	TT	TT	INTERGENIC			
SNP_97530_A_1732	NW_004516726.1	scaffold1548	1732	TT	CC	CC	INTERGENIC			
SNP_97531_A_11023	NW_004516726.1	scaffold1548	11023	AA	TT	TT	INTERGENIC			
SNP_97532_A_11187	NW_004516726.1	scaffold1548	11187	CC	TT	TT	INTERGENIC			
SNP_97533_A_11283	NW_004516726.1	scaffold1548	11283	CC	TT	TT	INTERGENIC			
SNP_97534_A_11314	NW_004516726.1	scaffold1548	11314	AA	GG	GG	INTERGENIC			
SNP_97535_A_15102	NW_004516726.1	scaffold1548	15102	GG	AA	AA	INTERGENIC			
SNP_97536_A_15339	NW_004516726.1	scaffold1548	15339	CC	AA	AA	INTERGENIC			
SNP_97537_A_15422	NW_004516726.1	scaffold1548	15422	TT	GG	GG	INTERGENIC			
SNP_97538_A_15467	NW_004516726.1	scaffold1548	15467	AA	CC	CC	INTERGENIC			
SNP_97539_A_15490	NW_004516726.1	scaffold1548	15490	AA	TT	TT	INTERGENIC			
SNP_97540_A_20187	NW_004516726.1	scaffold1548	20187	CC	TT	TT	INTERGENIC			
SNP_97541_A_20264	NW_004516726.1	scaffold1548	20264	TT	CC	CC	INTERGENIC			
SNP_97542_A_20478	NW_004516726.1	scaffold1548	20478	CC	TT	TT	INTERGENIC			
SNP_97543_A_27048	NW_004516726.1	scaffold1548	27048	TT	CC	CC	INTERGENIC			
SNP_97544_A_27407	NW_004516726.1	scaffold1548	27407	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97545_A_27590	NW_004516726.1	scaffold1548	27590	CC	TT	TT	INTERGENIC			
SNP_97546_A_27731	NW_004516726.1	scaffold1548	27731	GG	AA	AA	INTERGENIC			
SNP_97547_A_5792	NW_004516728.1	scaffold1550	5792	AA	GG	GG	INTERGENIC			
SNP_97548_A_5795	NW_004516728.1	scaffold1550	5795	GG	TT	TT	INTERGENIC			
SNP_97549_A_16376	NW_004516728.1	scaffold1550	16376	CC	TT	TT	INTERGENIC			
SNP_97550_A_16785	NW_004516728.1	scaffold1550	16785	TT	GG	GG	INTERGENIC			
SNP_97551_A_18104	NW_004516728.1	scaffold1550	18104	AA	GG	GG	INTERGENIC			
SNP_97552_A_18336	NW_004516728.1	scaffold1550	18336	AA	TT	TT	INTERGENIC			
SNP_97553_A_18351	NW_004516728.1	scaffold1550	18351	GG	TT	TT	INTERGENIC			
SNP_97554_A_43159	NW_004516728.1	scaffold1550	43159	TT	CC	CC	INTERGENIC			
SNP_97555_A_43470	NW_004516728.1	scaffold1550	43470	CC	TT	TT	INTERGENIC			
SNP_97556_A_43658	NW_004516728.1	scaffold1550	43658	TT	GG	GG	INTERGENIC			
SNP_97557_A_43715	NW_004516728.1	scaffold1550	43715	GG	AA	AA	INTERGENIC			
SNP_97558_A_43766	NW_004516728.1	scaffold1550	43766	AA	CC	CC	INTERGENIC			
SNP_97559_A_43768	NW_004516728.1	scaffold1550	43768	AA	GG	GG	INTERGENIC			
SNP_97560_A_43804	NW_004516728.1	scaffold1550	43804	AA	GG	GG	INTERGENIC			
SNP_97561_A_43889	NW_004516728.1	scaffold1550	43889	CC	AA	AA	INTERGENIC			
SNP_97562_A_43907	NW_004516728.1	scaffold1550	43907	AA	GG	GG	INTERGENIC			
SNP_97563_A_44137	NW_004516728.1	scaffold1550	44137	AA	TT	TT	INTERGENIC			
SNP_97564_A_44240	NW_004516728.1	scaffold1550	44240	AA	GG	GG	INTERGENIC			
SNP_97565_A_44277	NW_004516728.1	scaffold1550	44277	TT	AA	AA	INTERGENIC			
SNP_97567_A_44394	NW_004516728.1	scaffold1550	44394	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97568_A_44511	NW_004516728.1	scaffold1550	44511	AA	CC	CC	INTERGENIC			
SNP_97569_A_44512	NW_004516728.1	scaffold1550	44512	CC	AA	AA	INTERGENIC			
SNP_97570_A_49213	NW_004516728.1	scaffold1550	49213	AA	CC	CC	INTERGENIC			
SNP_97571_A_49221	NW_004516728.1	scaffold1550	49221	TT	GG	GG	INTERGENIC			
SNP_97572_A_49266	NW_004516728.1	scaffold1550	49266	TT	CC	CC	INTERGENIC			
SNP_97573_A_49267	NW_004516728.1	scaffold1550	49267	AA	TT	TT	INTERGENIC			
SNP_97574_A_49398	NW_004516728.1	scaffold1550	49398	CC	TT	TT	INTERGENIC			
SNP_97575_A_53031	NW_004516728.1	scaffold1550	53031	AA	GG	GG	INTERGENIC			
SNP_97576_A_53172	NW_004516728.1	scaffold1550	53172	AA	CC	CC	INTERGENIC			
SNP_97577_A_53515	NW_004516728.1	scaffold1550	53515	AA	CC	CC	INTERGENIC			
SNP_97578_A_53527	NW_004516728.1	scaffold1550	53527	AA	GG	GG	INTERGENIC			
SNP_97579_A_55579	NW_004516728.1	scaffold1550	55579	TT	AA	AA	INTERGENIC			
SNP_97580_A_55582	NW_004516728.1	scaffold1550	55582	AA	GG	GG	INTERGENIC			
SNP_97582_A_62083	NW_004516728.1	scaffold1550	62083	AA	TT	TT	INTERGENIC			
SNP_97583_A_69491	NW_004516728.1	scaffold1550	69491	AA	TT	TT	INTERGENIC			
SNP_97584_A_71336	NW_004516728.1	scaffold1550	71336	TT	GG	GG	INTERGENIC			
SNP_97585_A_81716	NW_004516728.1	scaffold1550	81716	GG	AA	AA	INTERGENIC			
SNP_97586_A_100238	NW_004516728.1	scaffold1550	100238	TT	CC	CC	INTERGENIC			
SNP_97587_A_100250	NW_004516728.1	scaffold1550	100250	AA	GG	GG	INTERGENIC			
SNP_97588_A_100264	NW_004516728.1	scaffold1550	100264	TT	AA	AA	INTERGENIC			
SNP_97589_A_100306	NW_004516728.1	scaffold1550	100306	AA	TT	TT	INTERGENIC			
SNP_97590_A_100508	NW_004516728.1	scaffold1550	100508	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97591_A_100520	NW_004516728.1	scaffold1550	100520	AA	CC	CC	INTERGENIC			
SNP_97593_A_1903	NW_004516730.1	scaffold1552	1903	CC	GG	GG	INTERGENIC			
SNP_97594_A_1928	NW_004516730.1	scaffold1552	1928	TT	AA	AA	INTERGENIC			
SNP_97595_A_1954	NW_004516730.1	scaffold1552	1954	CC	TT	TT	INTERGENIC			
SNP_97596_A_2004	NW_004516730.1	scaffold1552	2004	CC	TT	TT	INTERGENIC			
SNP_97597_A_2125	NW_004516730.1	scaffold1552	2125	GG	AA	AA	INTERGENIC			
SNP_97600_A_2280	NW_004516730.1	scaffold1552	2280	TT	CC	CC	INTERGENIC			
SNP_97601_A_2534	NW_004516730.1	scaffold1552	2534	TT	AA	AA	INTERGENIC			
SNP_97602_A_4664	NW_004516730.1	scaffold1552	4664	TT	CC	CC	INTERGENIC			
SNP_97603_A_4872	NW_004516730.1	scaffold1552	4872	TT	CC	CC	INTERGENIC			
SNP_97604_A_5040	NW_004516730.1	scaffold1552	5040	AA	GG	GG	INTERGENIC			
SNP_97605_A_6321	NW_004516730.1	scaffold1552	6321	CC	GG	GG	INTERGENIC			
SNP_97606_A_6352	NW_004516730.1	scaffold1552	6352	TT	CC	CC	INTERGENIC			
SNP_97607_A_6361	NW_004516730.1	scaffold1552	6361	CC	TT	TT	INTERGENIC			
SNP_97608_A_6380	NW_004516730.1	scaffold1552	6380	AA	GG	GG	INTERGENIC			
SNP_97609_A_6585	NW_004516730.1	scaffold1552	6585	GG	AA	AA	INTERGENIC			
SNP_97610_A_6591	NW_004516730.1	scaffold1552	6591	CC	AA	AA	INTERGENIC			
SNP_97611_A_6596	NW_004516730.1	scaffold1552	6596	GG	TT	TT	INTERGENIC			
SNP_97612_A_6598	NW_004516730.1	scaffold1552	6598	CC	TT	TT	INTERGENIC			
SNP_97613_A_6615	NW_004516730.1	scaffold1552	6615	CC	TT	TT	INTERGENIC			
SNP_97614_A_7414	NW_004516730.1	scaffold1552	7414	AA	GG	GG	INTERGENIC			
SNP_97615_A_8070	NW_004516730.1	scaffold1552	8070	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97616_A_8125	NW_004516730.1	scaffold1552	8125	CC	TT	TT	INTERGENIC			
SNP_97617_A_8197	NW_004516730.1	scaffold1552	8197	GG	TT	TT	INTERGENIC			
SNP_97618_A_8275	NW_004516730.1	scaffold1552	8275	CC	TT	TT	INTERGENIC			
SNP_97619_A_10445	NW_004516730.1	scaffold1552	10445	GG	AA	AA	INTERGENIC			
SNP_97620_A_10856	NW_004516730.1	scaffold1552	10856	AA	CC	CC	INTERGENIC			
SNP_97621_A_11289	NW_004516730.1	scaffold1552	11289	GG	AA	AA	INTERGENIC			
SNP_97622_A_11332	NW_004516730.1	scaffold1552	11332	AA	TT	TT	INTERGENIC			
SNP_97623_A_13312	NW_004516730.1	scaffold1552	13312	AA	TT	TT	INTERGENIC			
SNP_97624_A_17471	NW_004516730.1	scaffold1552	17471	CC	GG	GG	INTERGENIC			
SNP_97625_A_19741	NW_004516730.1	scaffold1552	19741	GG	TT	TT	INTERGENIC			
SNP_97626_A_19809	NW_004516730.1	scaffold1552	19809	CC	AA	AA	INTERGENIC			
SNP_97627_A_19952	NW_004516730.1	scaffold1552	19952	AA	GG	GG	INTERGENIC			
SNP_97628_A_19992	NW_004516730.1	scaffold1552	19992	GG	AA	AA	INTERGENIC			
SNP_97629_A_20170	NW_004516730.1	scaffold1552	20170	CC	TT	TT	INTERGENIC			
SNP_97630_A_20290	NW_004516730.1	scaffold1552	20290	TT	CC	CC	INTERGENIC			
SNP_97631_A_20295	NW_004516730.1	scaffold1552	20295	GG	AA	AA	INTERGENIC			
SNP_97632_A_20558	NW_004516730.1	scaffold1552	20558	TT	AA	AA	INTERGENIC			
SNP_97633_A_4317	NW_004516731.1	scaffold1553	4317	TT	CC	CC	INTERGENIC			
SNP_97634_A_4382	NW_004516731.1	scaffold1553	4382	AA	GG	GG	INTERGENIC			
SNP_97635_A_4569	NW_004516731.1	scaffold1553	4569	CC	TT	TT	INTERGENIC			
SNP_97636_A_4576	NW_004516731.1	scaffold1553	4576	CC	AA	AA	INTERGENIC			
SNP_97639_A_1182	NW_004516734.1	scaffold1557	1182	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97640_A_1540	NW_004516734.1	scaffold1557	1540	TT	GG	GG	INTERGENIC			
SNP_97641_A_1793	NW_004516734.1	scaffold1557	1793	AA	TT	TT	INTERGENIC			
SNP_97642_A_320	NW_004516736.1	scaffold1559	320	AA	TT	TT	INTERGENIC			
SNP_97643_A_321	NW_004516736.1	scaffold1559	321	TT	CC	CC	INTERGENIC			
SNP_97644_A_460	NW_004516736.1	scaffold1559	460	AA	TT	TT	INTERGENIC			
SNP_97646_A_758	NW_004516736.1	scaffold1559	758	CC	TT	TT	INTERGENIC			
SNP_97647_A_955	NW_004516736.1	scaffold1559	955	AA	GG	GG	INTERGENIC			
SNP_97648_A_7396	NW_004516738.1	scaffold1561	7396	TT	CC	CC	INTERGENIC			
SNP_97649_A_7404	NW_004516738.1	scaffold1561	7404	TT	AA	AA	INTERGENIC			
SNP_97650_A_7415	NW_004516738.1	scaffold1561	7415	CC	AA	AA	INTERGENIC			
SNP_97651_A_7440	NW_004516738.1	scaffold1561	7440	TT	GG	GG	INTERGENIC			
SNP_97652_A_7731	NW_004516738.1	scaffold1561	7731	GG	TT	TT	INTERGENIC			
SNP_97653_A_7893	NW_004516738.1	scaffold1561	7893	TT	GG	GG	INTERGENIC			
SNP_97654_A_17612	NW_004516738.1	scaffold1561	17612	GG	TT	TT	INTERGENIC			
SNP_97655_A_17790	NW_004516738.1	scaffold1561	17790	CC	TT	TT	INTERGENIC			
SNP_97656_A_26036	NW_004516738.1	scaffold1561	26036	TT	CC	CC	INTERGENIC			
SNP_97657_A_52735	NW_004516738.1	scaffold1561	52735	TT	CC	CC	INTERGENIC			
SNP_97658_A_52742	NW_004516738.1	scaffold1561	52742	CC	TT	TT	INTERGENIC			
SNP_97659_A_53063	NW_004516738.1	scaffold1561	53063	GG	TT	TT	INTERGENIC			
SNP_97660_A_54774	NW_004516738.1	scaffold1561	54774	AA	GG	GG	INTERGENIC			
SNP_97661_A_55106	NW_004516738.1	scaffold1561	55106	AA	TT	TT	INTERGENIC			
SNP_97662_A_55110	NW_004516738.1	scaffold1561	55110	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97663_A_55118	NW_004516738.1	scaffold1561	55118	CC	TT	TT	INTERGENIC			
SNP_97664_A_55146	NW_004516738.1	scaffold1561	55146	AA	GG	GG	INTERGENIC			
SNP_97665_A_55164	NW_004516738.1	scaffold1561	55164	TT	CC	CC	INTERGENIC			
SNP_97666_A_55229	NW_004516738.1	scaffold1561	55229	CC	AA	AA	INTERGENIC			
SNP_97667_A_55271	NW_004516738.1	scaffold1561	55271	CC	TT	TT	INTERGENIC			
SNP_97668_A_55285	NW_004516738.1	scaffold1561	55285	AA	TT	TT	INTERGENIC			
SNP_97669_A_55298	NW_004516738.1	scaffold1561	55298	GG	AA	AA	INTERGENIC			
SNP_97670_A_55328	NW_004516738.1	scaffold1561	55328	AA	TT	TT	INTERGENIC			
SNP_97671_A_55330	NW_004516738.1	scaffold1561	55330	AA	TT	TT	INTERGENIC			
SNP_97672_A_55356	NW_004516738.1	scaffold1561	55356	CC	TT	TT	INTERGENIC			
SNP_97673_A_55594	NW_004516738.1	scaffold1561	55594	AA	GG	GG	INTERGENIC			
SNP_97674_A_55701	NW_004516738.1	scaffold1561	55701	TT	CC	CC	INTERGENIC			
SNP_97675_A_69864	NW_004516738.1	scaffold1561	69864	GG	TT	TT	INTERGENIC			
SNP_97676_A_69885	NW_004516738.1	scaffold1561	69885	GG	TT	TT	INTERGENIC			
SNP_97677_A_70061	NW_004516738.1	scaffold1561	70061	TT	AA	AA	INTERGENIC			
SNP_97678_A_70404	NW_004516738.1	scaffold1561	70404	AA	TT	TT	INTERGENIC			
SNP_97679_A_70497	NW_004516738.1	scaffold1561	70497	AA	GG	GG	INTERGENIC			
SNP_97680_A_70521	NW_004516738.1	scaffold1561	70521	TT	CC	CC	INTERGENIC			
SNP_97681_A_70536	NW_004516738.1	scaffold1561	70536	AA	TT	TT	INTERGENIC			
SNP_97682_A_70544	NW_004516738.1	scaffold1561	70544	AA	CC	CC	INTERGENIC			
SNP_97683_A_70628	NW_004516738.1	scaffold1561	70628	AA	GG	GG	INTERGENIC			
SNP_97684_A_70667	NW_004516738.1	scaffold1561	70667	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97685_A_80132	NW_004516738.1	scaffold1561	80132	AA	GG	GG	INTERGENIC			
SNP_97686_A_80157	NW_004516738.1	scaffold1561	80157	TT	GG	GG	INTERGENIC			
SNP_97687_A_80419	NW_004516738.1	scaffold1561	80419	AA	GG	GG	INTERGENIC			
SNP_97688_A_979	NW_004516739.1	scaffold1562	979	GG	AA	AA	INTERGENIC			
SNP_97689_A_994	NW_004516739.1	scaffold1562	994	GG	AA	AA	INTERGENIC			
SNP_97690_A_1080	NW_004516739.1	scaffold1562	1080	AA	CC	CC	INTERGENIC			
SNP_97691_A_1082	NW_004516739.1	scaffold1562	1082	GG	AA	AA	INTERGENIC			
SNP_97692_A_39286	NW_004516739.1	scaffold1562	39286	GG	TT	TT	INTERGENIC			
SNP_97693_A_39298	NW_004516739.1	scaffold1562	39298	TT	CC	CC	INTERGENIC			
SNP_97694_A_51417	NW_004516739.1	scaffold1562	51417	TT	CC	CC	INTERGENIC			
SNP_97695_A_64421	NW_004516739.1	scaffold1562	64421	CC	TT	TT	INTERGENIC			
SNP_97696_A_64444	NW_004516739.1	scaffold1562	64444	GG	AA	AA	INTERGENIC			
SNP_97697_A_66610	NW_004516739.1	scaffold1562	66610	AA	GG	GG	INTERGENIC			
SNP_97698_A_102254	NW_004516739.1	scaffold1562	102254	TT	GG	GG	INTERGENIC			
SNP_97699_A_102314	NW_004516739.1	scaffold1562	102314	TT	AA	AA	INTERGENIC			
SNP_97700_A_103703	NW_004516739.1	scaffold1562	103703	AA	GG	GG	INTERGENIC			
SNP_97701_A_104130	NW_004516739.1	scaffold1562	104130	TT	CC	CC	INTERGENIC			
SNP_97702_A_1861	NW_004516742.1	scaffold1568	1861	TT	GG	GG	INTERGENIC			
SNP_97703_A_1981	NW_004516742.1	scaffold1568	1981	GG	CC	CC	INTERGENIC			
SNP_97704_A_2042	NW_004516742.1	scaffold1568	2042	GG	TT	TT	INTERGENIC			
SNP_97705_A_2130	NW_004516742.1	scaffold1568	2130	TT	AA	AA	INTERGENIC			
SNP_97706_A_2271	NW_004516742.1	scaffold1568	2271	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97707_A_9656	NW_004516742.1	scaffold1568	9656	GG	AA	AA	INTERGENIC			
SNP_97708_A_9764	NW_004516742.1	scaffold1568	9764	CC	AA	AA	INTERGENIC			
SNP_97709_A_11652	NW_004516742.1	scaffold1568	11652	GG	TT	TT	INTERGENIC			
SNP_97710_A_11933	NW_004516742.1	scaffold1568	11933	TT	CC	CC	INTERGENIC			
SNP_97711_A_12003	NW_004516742.1	scaffold1568	12003	AA	TT	TT	INTERGENIC			
SNP_97713_A_16683	NW_004516742.1	scaffold1568	16683	GG	CC	CC	INTERGENIC			
SNP_97714_A_17271	NW_004516742.1	scaffold1568	17271	AA	TT	TT	INTERGENIC			
SNP_97715_A_17905	NW_004516742.1	scaffold1568	17905	CC	GG	GG	INTERGENIC			
SNP_97716_A_18012	NW_004516742.1	scaffold1568	18012	AA	TT	TT	INTERGENIC			
SNP_97717_A_22086	NW_004516742.1	scaffold1568	22086	CC	AA	AA	INTERGENIC			
SNP_97718_A_22311	NW_004516742.1	scaffold1568	22311	AA	GG	GG	INTERGENIC			
SNP_97719_A_22332	NW_004516742.1	scaffold1568	22332	CC	TT	TT	INTERGENIC			
SNP_97720_A_22966	NW_004516742.1	scaffold1568	22966	AA	TT	TT	INTERGENIC			
SNP_97721_A_22973	NW_004516742.1	scaffold1568	22973	CC	TT	TT	INTERGENIC			
SNP_97722_A_22977	NW_004516742.1	scaffold1568	22977	GG	AA	AA	INTERGENIC			
SNP_97723_A_23008	NW_004516742.1	scaffold1568	23008	TT	AA	AA	INTERGENIC			
SNP_97724_A_23068	NW_004516742.1	scaffold1568	23068	TT	AA	AA	INTERGENIC			
SNP_97725_A_23072	NW_004516742.1	scaffold1568	23072	TT	CC	CC	INTERGENIC			
SNP_97726_A_23196	NW_004516742.1	scaffold1568	23196	TT	GG	GG	INTERGENIC			
SNP_97727_A_23610	NW_004516742.1	scaffold1568	23610	AA	GG	GG	INTERGENIC			
SNP_97728_A_23667	NW_004516742.1	scaffold1568	23667	AA	TT	TT	INTERGENIC			
SNP_97729_A_24472	NW_004516742.1	scaffold1568	24472	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97730_A_24778	NW_004516742.1	scaffold1568	24778	TT	GG	GG	INTERGENIC			
SNP_97732_A_25009	NW_004516742.1	scaffold1568	25009	CC	TT	TT	INTERGENIC			
SNP_97733_A_25098	NW_004516742.1	scaffold1568	25098	TT	GG	GG	INTERGENIC			
SNP_97734_A_25510	NW_004516742.1	scaffold1568	25510	GG	CC	CC	INTERGENIC			
SNP_97735_A_29438	NW_004516742.1	scaffold1568	29438	GG	AA	AA	INTERGENIC			
SNP_97736_A_29455	NW_004516742.1	scaffold1568	29455	CC	GG	GG	INTERGENIC			
SNP_97737_A_33313	NW_004516742.1	scaffold1568	33313	AA	TT	TT	INTERGENIC			
SNP_97739_A_33374	NW_004516742.1	scaffold1568	33374	TT	GG	GG	INTERGENIC			
SNP_97740_A_33390	NW_004516742.1	scaffold1568	33390	CC	TT	TT	INTERGENIC			
SNP_97741_A_33911	NW_004516742.1	scaffold1568	33911	CC	GG	GG	INTERGENIC			
SNP_97742_A_44372	NW_004516742.1	scaffold1568	44372	TT	AA	AA	INTERGENIC			
SNP_97743_A_44378	NW_004516742.1	scaffold1568	44378	AA	GG	GG	INTERGENIC			
SNP_97744_A_44391	NW_004516742.1	scaffold1568	44391	AA	TT	TT	INTERGENIC			
SNP_97745_A_44419	NW_004516742.1	scaffold1568	44419	TT	CC	CC	INTERGENIC			
SNP_97749_A_44478	NW_004516742.1	scaffold1568	44478	AA	GG	GG	INTERGENIC			
SNP_97750_A_44487	NW_004516742.1	scaffold1568	44487	TT	AA	AA	INTERGENIC			
SNP_97751_A_44506	NW_004516742.1	scaffold1568	44506	AA	TT	TT	INTERGENIC			
SNP_97752_A_44511	NW_004516742.1	scaffold1568	44511	GG	TT	TT	INTERGENIC			
SNP_97753_A_44530	NW_004516742.1	scaffold1568	44530	TT	AA	AA	INTERGENIC			
SNP_97754_A_44559	NW_004516742.1	scaffold1568	44559	TT	GG	GG	INTERGENIC			
SNP_97755_A_44576	NW_004516742.1	scaffold1568	44576	AA	TT	TT	INTERGENIC			
SNP_97756_A_45165	NW_004516742.1	scaffold1568	45165	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97757_A_45176	NW_004516742.1	scaffold1568	45176	CC	TT	TT	INTERGENIC			
SNP_97758_A_45899	NW_004516742.1	scaffold1568	45899	CC	GG	GG	INTERGENIC			
SNP_97759_A_46253	NW_004516742.1	scaffold1568	46253	TT	CC	CC	INTERGENIC			
SNP_97760_A_46493	NW_004516742.1	scaffold1568	46493	TT	CC	CC	INTERGENIC			
SNP_97761_A_46720	NW_004516742.1	scaffold1568	46720	GG	AA	AA	INTERGENIC			
SNP_97762_A_47641	NW_004516742.1	scaffold1568	47641	TT	AA	AA	INTERGENIC			
SNP_97763_A_49083	NW_004516742.1	scaffold1568	49083	AA	TT	TT	INTERGENIC			
SNP_97764_A_49157	NW_004516742.1	scaffold1568	49157	GG	CC	CC	INTERGENIC			
SNP_97765_A_49164	NW_004516742.1	scaffold1568	49164	TT	CC	CC	INTERGENIC			
SNP_97766_A_49719	NW_004516742.1	scaffold1568	49719	TT	CC	CC	INTERGENIC			
SNP_97767_A_51726	NW_004516742.1	scaffold1568	51726	CC	GG	GG	INTERGENIC			
SNP_97768_A_51914	NW_004516742.1	scaffold1568	51914	GG	AA	AA	INTERGENIC			
SNP_97769_A_52323	NW_004516742.1	scaffold1568	52323	GG	AA	AA	INTERGENIC			
SNP_97770_A_53747	NW_004516742.1	scaffold1568	53747	TT	CC	CC	INTERGENIC			
SNP_97771_A_54350	NW_004516742.1	scaffold1568	54350	TT	AA	AA	INTERGENIC			
SNP_97772_A_54887	NW_004516742.1	scaffold1568	54887	GG	AA	AA	INTERGENIC			
SNP_97773_A_57139	NW_004516742.1	scaffold1568	57139	TT	CC	CC	INTERGENIC			
SNP_97774_A_57506	NW_004516742.1	scaffold1568	57506	GG	AA	AA	INTERGENIC			
SNP_97775_A_66587	NW_004516742.1	scaffold1568	66587	TT	AA	AA	INTERGENIC			
SNP_97776_A_66600	NW_004516742.1	scaffold1568	66600	TT	AA	AA	INTERGENIC			
SNP_97777_A_66716	NW_004516742.1	scaffold1568	66716	TT	AA	AA	INTERGENIC			
SNP_97778_A_68216	NW_004516742.1	scaffold1568	68216	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97779_A_68217	NW_004516742.1	scaffold1568	68217	TT	AA	AA	INTERGENIC			
SNP_97780_A_70768	NW_004516742.1	scaffold1568	70768	AA	TT	TT	INTERGENIC			
SNP_97781_A_73482	NW_004516742.1	scaffold1568	73482	CC	AA	AA	INTERGENIC			
SNP_97782_A_73494	NW_004516742.1	scaffold1568	73494	GG	TT	TT	INTERGENIC			
SNP_97783_A_77830	NW_004516742.1	scaffold1568	77830	CC	TT	TT	INTERGENIC			
SNP_97784_A_78785	NW_004516742.1	scaffold1568	78785	AA	GG	GG	INTERGENIC			
SNP_97785_A_78796	NW_004516742.1	scaffold1568	78796	AA	TT	TT	INTERGENIC			
SNP_97786_A_78848	NW_004516742.1	scaffold1568	78848	AA	GG	GG	INTERGENIC			
SNP_97787_A_79000	NW_004516742.1	scaffold1568	79000	TT	GG	GG	INTERGENIC			
SNP_97788_A_79069	NW_004516742.1	scaffold1568	79069	GG	AA	AA	INTERGENIC			
SNP_97789_A_79077	NW_004516742.1	scaffold1568	79077	TT	AA	AA	INTERGENIC			
SNP_97790_A_80149	NW_004516742.1	scaffold1568	80149	TT	CC	CC	INTERGENIC			
SNP_97791_A_80671	NW_004516742.1	scaffold1568	80671	CC	GG	GG	INTERGENIC			
SNP_97792_A_81392	NW_004516742.1	scaffold1568	81392	CC	TT	TT	INTERGENIC			
SNP_97793_A_81815	NW_004516742.1	scaffold1568	81815	GG	AA	AA	INTERGENIC			
SNP_97794_A_82223	NW_004516742.1	scaffold1568	82223	TT	GG	GG	INTERGENIC			
SNP_97795_A_82246	NW_004516742.1	scaffold1568	82246	AA	TT	TT	INTERGENIC			
SNP_97796_A_82524	NW_004516742.1	scaffold1568	82524	CC	GG	GG	INTERGENIC			
SNP_97797_A_82550	NW_004516742.1	scaffold1568	82550	AA	TT	TT	INTERGENIC			
SNP_97798_A_82717	NW_004516742.1	scaffold1568	82717	TT	CC	CC	INTERGENIC			
SNP_97800_A_16094	NW_004516743.1	scaffold1569	16094	CC	AA	AA	INTERGENIC			
SNP_97801_A_18763	NW_004516743.1	scaffold1569	18763	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97802_A_19611	NW_004516743.1	scaffold1569	19611	AA	GG	GG	INTERGENIC			
SNP_97803_A_19620	NW_004516743.1	scaffold1569	19620	CC	GG	GG	INTERGENIC			
SNP_97804_A_19628	NW_004516743.1	scaffold1569	19628	CC	TT	TT	INTERGENIC			
SNP_97805_A_19634	NW_004516743.1	scaffold1569	19634	CC	AA	AA	INTERGENIC			
SNP_97806_A_25106	NW_004516743.1	scaffold1569	25106	AA	TT	TT	INTERGENIC			
SNP_97807_A_25545	NW_004516743.1	scaffold1569	25545	GG	AA	AA	INTERGENIC			
SNP_97808_A_25655	NW_004516743.1	scaffold1569	25655	TT	AA	AA	INTERGENIC			
SNP_97809_A_25899	NW_004516743.1	scaffold1569	25899	AA	CC	CC	INTERGENIC			
SNP_97810_A_32401	NW_004516743.1	scaffold1569	32401	AA	CC	CC	INTERGENIC			
SNP_97811_A_32457	NW_004516743.1	scaffold1569	32457	CC	GG	GG	INTERGENIC			
SNP_97813_A_32571	NW_004516743.1	scaffold1569	32571	AA	CC	CC	INTERGENIC			
SNP_97814_A_32774	NW_004516743.1	scaffold1569	32774	AA	CC	CC	INTERGENIC			
SNP_97815_A_32866	NW_004516743.1	scaffold1569	32866	AA	CC	CC	INTERGENIC			
SNP_97816_A_32956	NW_004516743.1	scaffold1569	32956	AA	CC	CC	INTERGENIC			
SNP_97818_A_33009	NW_004516743.1	scaffold1569	33009	CC	TT	TT	INTERGENIC			
SNP_97819_A_33019	NW_004516743.1	scaffold1569	33019	TT	CC	CC	INTERGENIC			
SNP_97820_A_33042	NW_004516743.1	scaffold1569	33042	GG	TT	TT	INTERGENIC			
SNP_97821_A_33047	NW_004516743.1	scaffold1569	33047	TT	CC	CC	INTERGENIC			
SNP_97823_A_64	NW_004516746.1	scaffold1573	64	TT	AA	AA	INTERGENIC			
SNP_97824_A_2043	NW_004516746.1	scaffold1573	2043	AA	GG	GG	INTERGENIC			
SNP_97825_A_2578	NW_004516746.1	scaffold1573	2578	AA	TT	TT	INTERGENIC			
SNP_97826_A_20833	NW_004516747.1	scaffold1574	20833	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97827_A_40099	NW_004516747.1	scaffold1574	40099	TT	AA	AA	INTERGENIC			
SNP_97828_A_68795	NW_004516747.1	scaffold1574	68795	CC	TT	TT	INTERGENIC			
SNP_97829_A_68815	NW_004516747.1	scaffold1574	68815	GG	AA	AA	INTERGENIC			
SNP_97830_A_69279	NW_004516747.1	scaffold1574	69279	AA	TT	TT	INTERGENIC			
SNP_97831_A_69328	NW_004516747.1	scaffold1574	69328	TT	CC	CC	INTERGENIC			
SNP_97832_A_110172	NW_004516747.1	scaffold1574	110172	TT	CC	CC	INTERGENIC			
SNP_97833_A_110180	NW_004516747.1	scaffold1574	110180	AA	GG	GG	INTERGENIC			
SNP_97834_A_110827	NW_004516747.1	scaffold1574	110827	AA	TT	TT	INTERGENIC			
SNP_97835_A_42984	NW_004516748.1	scaffold1575	42984	CC	GG	GG	INTERGENIC			
SNP_97836_A_43665	NW_004516748.1	scaffold1575	43665	AA	TT	TT	INTERGENIC			
SNP_97837_A_123942	NW_004516748.1	scaffold1575	123942	TT	CC	CC	INTERGENIC			
SNP_97838_A_142815	NW_004516748.1	scaffold1575	142815	AA	GG	GG	INTERGENIC			
SNP_97839_A_142831	NW_004516748.1	scaffold1575	142831	GG	AA	AA	INTERGENIC			
SNP_97840_A_142855	NW_004516748.1	scaffold1575	142855	TT	CC	CC	INTERGENIC			
SNP_97841_A_2940	NW_004516751.1	scaffold1578	2940	TT	CC	CC	INTERGENIC			
SNP_97842_A_2972	NW_004516751.1	scaffold1578	2972	AA	GG	GG	INTERGENIC			
SNP_97843_A_3003	NW_004516751.1	scaffold1578	3003	TT	CC	CC	INTERGENIC			
SNP_97844_A_3169	NW_004516751.1	scaffold1578	3169	AA	CC	CC	INTERGENIC			
SNP_97845_A_17190	NW_004516751.1	scaffold1578	17190	CC	TT	TT	INTERGENIC			
SNP_97846_A_19662	NW_004516751.1	scaffold1578	19662	TT	GG	GG	INTERGENIC			
SNP_97847_A_22266	NW_004516751.1	scaffold1578	22266	GG	TT	TT	INTERGENIC			
SNP_97848_A_22281	NW_004516751.1	scaffold1578	22281	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97850_A_22308	NW_004516751.1	scaffold1578	22308	AA	TT	TT	INTERGENIC			
SNP_97851_A_22353	NW_004516751.1	scaffold1578	22353	AA	GG	GG	INTERGENIC			
SNP_97852_A_29485	NW_004516751.1	scaffold1578	29485	CC	TT	TT	INTERGENIC			
SNP_97853_A_29512	NW_004516751.1	scaffold1578	29512	CC	TT	TT	INTERGENIC			
SNP_97854_A_29557	NW_004516751.1	scaffold1578	29557	GG	AA	AA	INTERGENIC			
SNP_97855_A_29622	NW_004516751.1	scaffold1578	29622	TT	AA	AA	INTERGENIC			
SNP_97857_A_30054	NW_004516751.1	scaffold1578	30054	AA	TT	TT	INTERGENIC			
SNP_97858_A_41958	NW_004516751.1	scaffold1578	41958	TT	GG	GG	INTERGENIC			
SNP_97859_A_46541	NW_004516751.1	scaffold1578	46541	TT	GG	GG	INTERGENIC			
SNP_97860_A_46562	NW_004516751.1	scaffold1578	46562	CC	AA	AA	INTERGENIC			
SNP_97861_A_59797	NW_004516751.1	scaffold1578	59797	TT	CC	CC	INTERGENIC			
SNP_97862_A_61142	NW_004516751.1	scaffold1578	61142	GG	AA	AA	INTERGENIC			
SNP_97865_A_76725	NW_004516751.1	scaffold1578	76725	GG	AA	AA	INTERGENIC			
SNP_97867_A_77067	NW_004516751.1	scaffold1578	77067	AA	GG	GG	INTERGENIC			
SNP_97868_A_77122	NW_004516751.1	scaffold1578	77122	TT	AA	AA	INTERGENIC			
SNP_97869_A_77150	NW_004516751.1	scaffold1578	77150	GG	TT	TT	INTERGENIC			
SNP_97870_A_77234	NW_004516751.1	scaffold1578	77234	TT	AA	AA	INTERGENIC			
SNP_97872_A_78861	NW_004516751.1	scaffold1578	78861	CC	TT	TT	INTERGENIC			
SNP_97873_A_78862	NW_004516751.1	scaffold1578	78862	GG	AA	AA	INTERGENIC			
SNP_97874_A_78914	NW_004516751.1	scaffold1578	78914	TT	AA	AA	INTERGENIC			
SNP_97875_A_79007	NW_004516751.1	scaffold1578	79007	GG	TT	TT	INTERGENIC			
SNP_97877_A_86455	NW_004516751.1	scaffold1578	86455	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97878_A_86831	NW_004516751.1	scaffold1578	86831	AA	GG	GG	INTERGENIC			
SNP_97879_A_86859	NW_004516751.1	scaffold1578	86859	AA	GG	GG	INTERGENIC			
SNP_97880_A_86920	NW_004516751.1	scaffold1578	86920	AA	GG	GG	INTERGENIC			
SNP_97881_A_9028	NW_004516752.1	scaffold1579	9028	TT	CC	CC	INTERGENIC			
SNP_97882_A_9299	NW_004516752.1	scaffold1579	9299	CC	AA	AA	INTERGENIC			
SNP_97883_A_9339	NW_004516752.1	scaffold1579	9339	TT	CC	CC	INTERGENIC			
SNP_97884_A_9343	NW_004516752.1	scaffold1579	9343	AA	GG	GG	INTERGENIC			
SNP_97885_A_9348	NW_004516752.1	scaffold1579	9348	TT	GG	GG	INTERGENIC			
SNP_97886_A_9442	NW_004516752.1	scaffold1579	9442	CC	TT	TT	INTERGENIC			
SNP_97887_A_9521	NW_004516752.1	scaffold1579	9521	CC	GG	GG	INTERGENIC			
SNP_97888_A_9692	NW_004516752.1	scaffold1579	9692	GG	AA	AA	INTERGENIC			
SNP_97889_A_9703	NW_004516752.1	scaffold1579	9703	GG	TT	TT	INTERGENIC			
SNP_97890_A_9793	NW_004516752.1	scaffold1579	9793	TT	CC	CC	INTERGENIC			
SNP_97891_A_9833	NW_004516752.1	scaffold1579	9833	AA	CC	CC	INTERGENIC			
SNP_97892_A_9844	NW_004516752.1	scaffold1579	9844	AA	GG	GG	INTERGENIC			
SNP_97893_A_9894	NW_004516752.1	scaffold1579	9894	AA	GG	GG	INTERGENIC			
SNP_97894_A_10372	NW_004516752.1	scaffold1579	10372	TT	CC	CC	INTERGENIC			
SNP_97895_A_17623	NW_004516752.1	scaffold1579	17623	AA	GG	GG	INTERGENIC			
SNP_97896_A_17879	NW_004516752.1	scaffold1579	17879	TT	CC	CC	INTERGENIC			
SNP_97897_A_35173	NW_004516752.1	scaffold1579	35173	AA	GG	GG	INTERGENIC			
SNP_97899_A_35254	NW_004516752.1	scaffold1579	35254	AA	GG	GG	INTERGENIC			
SNP_97900_A_35487	NW_004516752.1	scaffold1579	35487	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97901_A_35524	NW_004516752.1	scaffold1579	35524	AA	TT	TT	INTERGENIC			
SNP_97902_A_35592	NW_004516752.1	scaffold1579	35592	TT	CC	CC	INTERGENIC			
SNP_97903_A_63869	NW_004516752.1	scaffold1579	63869	AA	GG	GG	INTERGENIC			
SNP_97905_A_65117	NW_004516752.1	scaffold1579	65117	TT	CC	CC	INTERGENIC			
SNP_97906_A_65172	NW_004516752.1	scaffold1579	65172	TT	AA	AA	INTERGENIC			
SNP_97907_A_65194	NW_004516752.1	scaffold1579	65194	CC	TT	TT	INTERGENIC			
SNP_97908_A_65196	NW_004516752.1	scaffold1579	65196	GG	AA	AA	INTERGENIC			
SNP_97909_A_65343	NW_004516752.1	scaffold1579	65343	TT	AA	AA	INTERGENIC			
SNP_97910_A_65477	NW_004516752.1	scaffold1579	65477	TT	AA	AA	INTERGENIC			
SNP_97911_A_65542	NW_004516752.1	scaffold1579	65542	TT	CC	CC	INTERGENIC			
SNP_97912_A_82828	NW_004516752.1	scaffold1579	82828	CC	TT	TT	INTERGENIC			
SNP_97913_A_153244	NW_004516752.1	scaffold1579	153244	CC	TT	TT	INTERGENIC			
SNP_97914_A_187208	NW_004516752.1	scaffold1579	187208	TT	CC	CC	INTERGENIC			
SNP_97915_A_187217	NW_004516752.1	scaffold1579	187217	TT	GG	GG	INTERGENIC			
SNP_97916_A_187245	NW_004516752.1	scaffold1579	187245	TT	GG	GG	INTERGENIC			
SNP_97917_A_194242	NW_004516752.1	scaffold1579	194242	AA	CC	CC	INTERGENIC			
SNP_97918_A_195303	NW_004516752.1	scaffold1579	195303	CC	TT	TT	INTERGENIC			
SNP_97920_A_202987	NW_004516752.1	scaffold1579	202987	GG	CC	CC	INTERGENIC			
SNP_97921_A_203001	NW_004516752.1	scaffold1579	203001	AA	TT	TT	INTERGENIC			
SNP_97922_A_203342	NW_004516752.1	scaffold1579	203342	TT	CC	CC	INTERGENIC			
SNP_97923_A_203345	NW_004516752.1	scaffold1579	203345	AA	CC	CC	INTERGENIC			
SNP_97924_A_203490	NW_004516752.1	scaffold1579	203490	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97925_A_205771	NW_004516752.1	scaffold1579	205771	GG	CC	CC	INTERGENIC			
SNP_97926_A_228342	NW_004516752.1	scaffold1579	228342	GG	AA	AA	INTERGENIC			
SNP_97927_A_232819	NW_004516752.1	scaffold1579	232819	AA	CC	CC	INTERGENIC			
SNP_97928_A_232820	NW_004516752.1	scaffold1579	232820	AA	TT	TT	INTERGENIC			
SNP_97929_A_233206	NW_004516752.1	scaffold1579	233206	AA	GG	GG	INTERGENIC			
SNP_97930_A_233211	NW_004516752.1	scaffold1579	233211	AA	CC	CC	INTERGENIC			
SNP_97931_A_234063	NW_004516752.1	scaffold1579	234063	TT	GG	GG	INTERGENIC			
SNP_97932_A_234077	NW_004516752.1	scaffold1579	234077	AA	GG	GG	INTERGENIC			
SNP_97933_A_234325	NW_004516752.1	scaffold1579	234325	AA	GG	GG	INTERGENIC			
SNP_97935_A_234350	NW_004516752.1	scaffold1579	234350	CC	TT	TT	INTERGENIC			
SNP_97936_A_240973	NW_004516752.1	scaffold1579	240973	AA	GG	GG	INTERGENIC			
SNP_97937_A_241246	NW_004516752.1	scaffold1579	241246	AA	CC	CC	INTERGENIC			
SNP_97938_A_243275	NW_004516752.1	scaffold1579	243275	AA	GG	GG	INTERGENIC			
SNP_97939_A_243292	NW_004516752.1	scaffold1579	243292	AA	CC	CC	INTERGENIC			
SNP_97940_A_243297	NW_004516752.1	scaffold1579	243297	CC	TT	TT	INTERGENIC			
SNP_97941_A_243396	NW_004516752.1	scaffold1579	243396	TT	GG	GG	INTERGENIC			
SNP_97942_A_243710	NW_004516752.1	scaffold1579	243710	TT	CC	CC	INTERGENIC			
SNP_97943_A_243755	NW_004516752.1	scaffold1579	243755	TT	CC	CC	INTERGENIC			
SNP_97944_A_243800	NW_004516752.1	scaffold1579	243800	AA	GG	GG	INTERGENIC			
SNP_97945_A_244430	NW_004516752.1	scaffold1579	244430	GG	AA	AA	INTERGENIC			
SNP_97946_A_244431	NW_004516752.1	scaffold1579	244431	AA	GG	GG	INTERGENIC			
SNP_97947_A_244445	NW_004516752.1	scaffold1579	244445	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_97948_A_7202	NW_004516753.1	scaffold1580	7202	AA	TT	TT	INTERGENIC		
SNP_97949_A_7207	NW_004516753.1	scaffold1580	7207	AA	CC	CC	INTERGENIC		
SNP_97950_A_7217	NW_004516753.1	scaffold1580	7217	TT	GG	GG	INTERGENIC		
SNP_97951_A_7241	NW_004516753.1	scaffold1580	7241	AA	CC	CC	INTERGENIC		
SNP_97952_A_7294	NW_004516753.1	scaffold1580	7294	TT	AA	AA	INTERGENIC		
SNP_97953_A_7298	NW_004516753.1	scaffold1580	7298	AA	TT	TT	INTERGENIC		
SNP_97954_A_7311	NW_004516753.1	scaffold1580	7311	CC	TT	TT	INTERGENIC		
SNP_97955_A_7596	NW_004516753.1	scaffold1580	7596	TT	AA	AA	INTERGENIC		
SNP_97956_A_61949	NW_004516753.1	scaffold1580	61949	AA	GG	GG	INTERGENIC		
SNP_97958_A_69803	NW_004516753.1	scaffold1580	69803	TT	GG	GG	INTERGENIC		
SNP_97959_A_69840	NW_004516753.1	scaffold1580	69840	AA	TT	TT	INTERGENIC		
SNP_97960_A_69874	NW_004516753.1	scaffold1580	69874	TT	CC	CC	INTERGENIC		
SNP_97962_A_70138	NW_004516753.1	scaffold1580	70138	GG	AA	AA	INTERGENIC		
SNP_97963_A_98195	NW_004516753.1	scaffold1580	98195	AA	GG	GG	INTERGENIC		
SNP_97965_A_184211	NW_004516753.1	scaffold1580	184211	CC	TT	TT	INTERGENIC		
SNP_97967_A_199311	NW_004516753.1	scaffold1580	199311	AA	TT	TT	INTERGENIC		
SNP_97968_A_228552	NW_004516753.1	scaffold1580	228552	CC	TT	TT	INTERGENIC		
SNP_97969_A_232566	NW_004516753.1	scaffold1580	232566	CC	AA	AA	INTERGENIC		
SNP_97970_A_232585	NW_004516753.1	scaffold1580	232585	GG	AA	AA	INTERGENIC		
SNP_97972_A_361103	NW_004516753.1	scaffold1580	361103	AA	TT	TT	INTERGENIC		
SNP_97973_A_416939	NW_004516753.1	scaffold1580	416939	GG	AA	AA	DRR	101501049	uncharacterized LOC101501049
SNP_97974_A_445333	NW_004516753.1	scaffold1580	445333	TT	CC	CC	START_GAINED	101500739	uncharacterized LOC101500739

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_97975_A_472094	NW_004516753.1	scaffold1580	472094	GG	AA	AA	INTERGENIC			
SNP_97979_A_472715	NW_004516753.1	scaffold1580	472715	TT	GG	GG	INTERGENIC			
SNP_97980_A_472834	NW_004516753.1	scaffold1580	472834	AA	TT	TT	INTERGENIC			
SNP_97981_A_472849	NW_004516753.1	scaffold1580	472849	CC	AA	AA	INTERGENIC			
SNP_97982_A_472905	NW_004516753.1	scaffold1580	472905	AA	GG	GG	INTERGENIC			
SNP_97983_A_472915	NW_004516753.1	scaffold1580	472915	CC	AA	AA	INTERGENIC			
SNP_97984_A_472917	NW_004516753.1	scaffold1580	472917	AA	GG	GG	INTERGENIC			
SNP_97985_A_472945	NW_004516753.1	scaffold1580	472945	AA	GG	GG	INTERGENIC			
SNP_97986_A_472951	NW_004516753.1	scaffold1580	472951	CC	AA	AA	INTERGENIC			
SNP_97987_A_472952	NW_004516753.1	scaffold1580	472952	AA	GG	GG	INTERGENIC			
SNP_97988_A_473072	NW_004516753.1	scaffold1580	473072	TT	CC	CC	INTERGENIC			
SNP_97989_A_473112	NW_004516753.1	scaffold1580	473112	AA	GG	GG	INTERGENIC			
SNP_97990_A_473120	NW_004516753.1	scaffold1580	473120	GG	AA	AA	INTERGENIC			
SNP_97991_A_473123	NW_004516753.1	scaffold1580	473123	AA	TT	TT	INTERGENIC			
SNP_97992_A_473150	NW_004516753.1	scaffold1580	473150	TT	GG	GG	INTERGENIC			
SNP_97993_A_504806	NW_004516753.1	scaffold1580	504806	AA	TT	TT	INTERGENIC			
SNP_97994_A_504949	NW_004516753.1	scaffold1580	504949	CC	TT	TT	INTERGENIC			
SNP_97995_A_504952	NW_004516753.1	scaffold1580	504952	AA	CC	CC	INTERGENIC			
SNP_97996_A_505307	NW_004516753.1	scaffold1580	505307	AA	CC	CC	INTERGENIC			
SNP_97997_A_505415	NW_004516753.1	scaffold1580	505415	TT	CC	CC	INTERGENIC			
SNP_97998_A_14233	NW_004516754.1	scaffold1581	14233	TT	AA	AA	INTERGENIC			
SNP_97999_A_14237	NW_004516754.1	scaffold1581	14237	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98000_A_156	NW_004516755.1	scaffold1585	156	GG	TT	TT	INTERGENIC		
SNP_98001_A_58074	NW_004516755.1	scaffold1585	58074	AA	GG	GG	INTERGENIC		
SNP_98002_A_58139	NW_004516755.1	scaffold1585	58139	TT	CC	CC	INTERGENIC		
SNP_98003_A_58342	NW_004516755.1	scaffold1585	58342	CC	TT	TT	INTERGENIC		
SNP_98004_A_58466	NW_004516755.1	scaffold1585	58466	GG	TT	TT	INTERGENIC		
SNP_98005_A_58562	NW_004516755.1	scaffold1585	58562	GG	AA	AA	INTERGENIC		
SNP_98006_A_58577	NW_004516755.1	scaffold1585	58577	TT	CC	CC	INTERGENIC		
SNP_98007_A_58785	NW_004516755.1	scaffold1585	58785	AA	CC	CC	INTERGENIC		
SNP_98009_A_58805	NW_004516755.1	scaffold1585	58805	TT	CC	CC	INTERGENIC		
SNP_98011_A_59001	NW_004516755.1	scaffold1585	59001	CC	TT	TT	INTERGENIC		
SNP_98012_A_62170	NW_004516755.1	scaffold1585	62170	TT	CC	CC	INTERGENIC		
SNP_98013_A_62176	NW_004516755.1	scaffold1585	62176	TT	CC	CC	INTERGENIC		
SNP_98014_A_147399	NW_004516755.1	scaffold1585	147399	TT	CC	CC	NON_SYNONYMOUS_CODING	id214067	Unknown function
SNP_98015_A_147703	NW_004516755.1	scaffold1585	147703	TT	CC	CC	NON_SYNONYMOUS_CODING	id214067	Unknown function
SNP_98016_A_147778	NW_004516755.1	scaffold1585	147778	AA	CC	CC	NON_SYNONYMOUS_CODING	id214067	Unknown function
SNP_98017_A_147789	NW_004516755.1	scaffold1585	147789	GG	AA	AA	NON_SYNONYMOUS_CODING	id214067	Unknown function
SNP_98018_A_183403	NW_004516755.1	scaffold1585	183403	GG	AA	AA	INTERGENIC		
SNP_98019_A_427	NW_004516756.1	scaffold1586	427	GG	AA	AA	INTERGENIC		
SNP_98020_A_799	NW_004516756.1	scaffold1586	799	TT	CC	CC	INTERGENIC		
SNP_98021_A_1821	NW_004516756.1	scaffold1586	1821	AA	TT	TT	INTERGENIC		
SNP_98023_A_2154	NW_004516756.1	scaffold1586	2154	GG	AA	AA	INTERGENIC		
SNP_98024_A_11439	NW_004516756.1	scaffold1586	11439	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98025_A_4771	NW_004516758.1	scaffold1588	4771	AA	TT	TT	INTERGENIC			
SNP_98026_A_6506	NW_004516758.1	scaffold1588	6506	AA	GG	GG	INTERGENIC			
SNP_98027_A_8373	NW_004516759.1	scaffold1590	8373	AA	CC	CC	INTERGENIC			
SNP_98028_A_8470	NW_004516759.1	scaffold1590	8470	CC	TT	TT	INTERGENIC			
SNP_98029_A_8487	NW_004516759.1	scaffold1590	8487	CC	TT	TT	INTERGENIC			
SNP_98030_A_8517	NW_004516759.1	scaffold1590	8517	CC	AA	AA	INTERGENIC			
SNP_98031_A_8609	NW_004516759.1	scaffold1590	8609	TT	CC	CC	INTERGENIC			
SNP_98032_A_8633	NW_004516759.1	scaffold1590	8633	CC	AA	AA	INTERGENIC			
SNP_98033_A_8726	NW_004516759.1	scaffold1590	8726	TT	CC	CC	INTERGENIC			
SNP_98034_A_9812	NW_004516759.1	scaffold1590	9812	GG	AA	AA	INTERGENIC			
SNP_98035_A_12414	NW_004516759.1	scaffold1590	12414	TT	CC	CC	INTERGENIC			
SNP_98037_A_426	NW_004516763.1	scaffold1600	426	AA	TT	TT	INTERGENIC			
SNP_98038_A_1210	NW_004516763.1	scaffold1600	1210	CC	GG	GG	INTERGENIC			
SNP_98039_A_13766	NW_004516764.1	scaffold1603	13766	GG	TT	TT	INTERGENIC			
SNP_98040_A_46703	NW_004516764.1	scaffold1603	46703	TT	CC	CC	INTERGENIC			
SNP_98041_A_47110	NW_004516764.1	scaffold1603	47110	TT	AA	AA	INTERGENIC			
SNP_98042_A_1691	NW_004516765.1	scaffold1606	1691	AA	TT	TT	INTERGENIC			
SNP_98043_A_1812	NW_004516765.1	scaffold1606	1812	CC	GG	GG	INTERGENIC			
SNP_98045_A_14171	NW_004516766.1	scaffold1607	14171	AA	TT	TT	INTERGENIC			
SNP_98046_A_14323	NW_004516766.1	scaffold1607	14323	GG	TT	TT	INTERGENIC			
SNP_98047_A_14540	NW_004516766.1	scaffold1607	14540	GG	AA	AA	INTERGENIC			
SNP_98048_A_31817	NW_004516766.1	scaffold1607	31817	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98049_A_33291	NW_004516766.1	scaffold1607	33291	TT	CC	CC	INTERGENIC			
SNP_98050_A_33297	NW_004516766.1	scaffold1607	33297	AA	GG	GG	INTERGENIC			
SNP_98051_A_36214	NW_004516766.1	scaffold1607	36214	AA	TT	TT	INTERGENIC			
SNP_98053_A_41384	NW_004516766.1	scaffold1607	41384	GG	AA	AA	INTERGENIC			
SNP_98054_A_42086	NW_004516766.1	scaffold1607	42086	CC	TT	TT	INTERGENIC			
SNP_98055_A_47255	NW_004516766.1	scaffold1607	47255	AA	CC	CC	INTERGENIC			
SNP_98056_A_47430	NW_004516766.1	scaffold1607	47430	TT	AA	AA	INTERGENIC			
SNP_98058_A_47443	NW_004516766.1	scaffold1607	47443	AA	TT	TT	INTERGENIC			
SNP_98059_A_47560	NW_004516766.1	scaffold1607	47560	TT	CC	CC	INTERGENIC			
SNP_98061_A_66914	NW_004516766.1	scaffold1607	66914	CC	TT	TT	INTERGENIC			
SNP_98062_A_72150	NW_004516766.1	scaffold1607	72150	AA	GG	GG	INTERGENIC			
SNP_98063_A_75678	NW_004516766.1	scaffold1607	75678	AA	TT	TT	INTERGENIC			
SNP_98064_A_76043	NW_004516766.1	scaffold1607	76043	AA	GG	GG	INTERGENIC			
SNP_98065_A_76052	NW_004516766.1	scaffold1607	76052	GG	AA	AA	INTERGENIC			
SNP_98066_A_91483	NW_004516766.1	scaffold1607	91483	CC	TT	TT	INTERGENIC			
SNP_98067_A_99760	NW_004516766.1	scaffold1607	99760	AA	GG	GG	INTERGENIC			
SNP_98068_A_116848	NW_004516766.1	scaffold1607	116848	TT	AA	AA	INTRON	101508858	Unknown function	
SNP_98069_A_117126	NW_004516766.1	scaffold1607	117126	GG	CC	CC	INTRON	101508858	Unknown function	
SNP_98070_A_117128	NW_004516766.1	scaffold1607	117128	GG	TT	TT	INTRON	101508858	Unknown function	
SNP_98071_A_117170	NW_004516766.1	scaffold1607	117170	TT	AA	AA	INTRON	101508858	Unknown function	
SNP_98073_A_119717	NW_004516766.1	scaffold1607	119717	AA	TT	TT	INTRON	101508858	Unknown function	
SNP_98074_A_119768	NW_004516766.1	scaffold1607	119768	AA	GG	GG	INTRON	101508858	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98075_A_119775	NW_004516766.1	scaffold1607	119775	GG	AA	AA	INTRON	101508858	Unknown function
SNP_98076_A_119813	NW_004516766.1	scaffold1607	119813	TT	AA	AA	INTRON	101508858	Unknown function
SNP_98077_A_119895	NW_004516766.1	scaffold1607	119895	GG	AA	AA	INTRON	101508858	Unknown function
SNP_98078_A_119896	NW_004516766.1	scaffold1607	119896	CC	AA	AA	INTRON	101508858	Unknown function
SNP_98079_A_119928	NW_004516766.1	scaffold1607	119928	TT	CC	CC	INTRON	101508858	Unknown function
SNP_98080_A_119938	NW_004516766.1	scaffold1607	119938	AA	CC	CC	INTRON	101508858	Unknown function
SNP_98081_A_120038	NW_004516766.1	scaffold1607	120038	CC	AA	AA	INTRON	101508858	Unknown function
SNP_98082_A_120081	NW_004516766.1	scaffold1607	120081	GG	TT	TT	INTRON	101508858	Unknown function
SNP_98083_A_122623	NW_004516766.1	scaffold1607	122623	TT	GG	GG	URR	101508858	Unknown function
SNP_98085_A_2428	NW_004516771.1	scaffold1613	2428	AA	GG	GG	INTERGENIC		
SNP_98086_A_10630	NW_004516771.1	scaffold1613	10630	GG	AA	AA	INTERGENIC		
SNP_98087_A_10633	NW_004516771.1	scaffold1613	10633	AA	TT	TT	INTERGENIC		
SNP_98088_A_10726	NW_004516771.1	scaffold1613	10726	TT	CC	CC	INTERGENIC		
SNP_98089_A_46476	NW_004516771.1	scaffold1613	46476	CC	GG	GG	NON_SYNONYMOUS_CODING	101509182	serine/threonine-protein kinase ATG1-like
SNP_98090_A_54699	NW_004516771.1	scaffold1613	54699	AA	CC	CC	URR	101509182	serine/threonine-protein kinase ATG1-like
SNP_98091_A_65333	NW_004516771.1	scaffold1613	65333	TT	CC	CC	INTERGENIC		
SNP_98092_A_65339	NW_004516771.1	scaffold1613	65339	AA	CC	CC	INTERGENIC		
SNP_98093_A_65341	NW_004516771.1	scaffold1613	65341	GG	AA	AA	INTERGENIC		
SNP_98094_A_91702	NW_004516771.1	scaffold1613	91702	CC	TT	TT	INTERGENIC		
SNP_98095_A_98123	NW_004516771.1	scaffold1613	98123	CC	TT	TT	INTERGENIC		
SNP_98096_A_98142	NW_004516771.1	scaffold1613	98142	CC	AA	AA	INTERGENIC		
SNP_98097_A_98146	NW_004516771.1	scaffold1613	98146	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98099_A_98293	NW_004516771.1	scaffold1613	98293	TT	GG	GG	INTERGENIC		
SNP_98100_A_98421	NW_004516771.1	scaffold1613	98421	AA	TT	TT	INTERGENIC		
SNP_98102_A_98456	NW_004516771.1	scaffold1613	98456	TT	CC	CC	INTERGENIC		
SNP_98104_A_108684	NW_004516771.1	scaffold1613	108684	AA	CC	CC	SYNONYMOUS_CODING	101510795	Unknown function
SNP_98105_A_116913	NW_004516771.1	scaffold1613	116913	AA	GG	GG	INTERGENIC		
SNP_98106_A_117313	NW_004516771.1	scaffold1613	117313	AA	GG	GG	INTERGENIC		
SNP_98107_A_117373	NW_004516771.1	scaffold1613	117373	AA	GG	GG	INTERGENIC		
SNP_98108_A_117379	NW_004516771.1	scaffold1613	117379	AA	GG	GG	INTERGENIC		
SNP_98109_A_117436	NW_004516771.1	scaffold1613	117436	CC	AA	AA	INTERGENIC		
SNP_98110_A_117658	NW_004516771.1	scaffold1613	117658	CC	TT	TT	INTERGENIC		
SNP_98111_A_117681	NW_004516771.1	scaffold1613	117681	AA	CC	CC	INTERGENIC		
SNP_98112_A_5436	NW_004516772.1	scaffold1614	5436	AA	GG	GG	INTERGENIC		
SNP_98113_A_5510	NW_004516772.1	scaffold1614	5510	TT	CC	CC	INTERGENIC		
SNP_98114_A_6566	NW_004516772.1	scaffold1614	6566	TT	GG	GG	INTERGENIC		
SNP_98115_A_6807	NW_004516772.1	scaffold1614	6807	TT	GG	GG	INTERGENIC		
SNP_98116_A_7613	NW_004516772.1	scaffold1614	7613	TT	AA	AA	INTERGENIC		
SNP_98117_A_7663	NW_004516772.1	scaffold1614	7663	CC	AA	AA	INTERGENIC		
SNP_98118_A_7714	NW_004516772.1	scaffold1614	7714	TT	AA	AA	INTERGENIC		
SNP_98119_A_8043	NW_004516772.1	scaffold1614	8043	GG	AA	AA	INTERGENIC		
SNP_98120_A_8066	NW_004516772.1	scaffold1614	8066	AA	CC	CC	INTERGENIC		
SNP_98121_A_8113	NW_004516772.1	scaffold1614	8113	AA	CC	CC	INTERGENIC		
SNP_98123_A_8344	NW_004516772.1	scaffold1614	8344	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98124_A_8697	NW_004516772.1	scaffold1614	8697	TT	CC	CC	INTERGENIC			
SNP_98125_A_9022	NW_004516772.1	scaffold1614	9022	GG	AA	AA	INTERGENIC			
SNP_98126_A_9032	NW_004516772.1	scaffold1614	9032	GG	AA	AA	INTERGENIC			
SNP_98127_A_9318	NW_004516772.1	scaffold1614	9318	TT	CC	CC	INTERGENIC			
SNP_98128_A_9319	NW_004516772.1	scaffold1614	9319	GG	AA	AA	INTERGENIC			
SNP_98129_A_9389	NW_004516772.1	scaffold1614	9389	AA	GG	GG	INTERGENIC			
SNP_98130_A_9462	NW_004516772.1	scaffold1614	9462	AA	CC	CC	INTERGENIC			
SNP_98131_A_13669	NW_004516772.1	scaffold1614	13669	CC	TT	TT	INTERGENIC			
SNP_98132_A_13695	NW_004516772.1	scaffold1614	13695	AA	TT	TT	INTERGENIC			
SNP_98133_A_13706	NW_004516772.1	scaffold1614	13706	TT	GG	GG	INTERGENIC			
SNP_98134_A_13732	NW_004516772.1	scaffold1614	13732	CC	TT	TT	INTERGENIC			
SNP_98135_A_13791	NW_004516772.1	scaffold1614	13791	AA	TT	TT	INTERGENIC			
SNP_98136_A_13828	NW_004516772.1	scaffold1614	13828	CC	GG	GG	INTERGENIC			
SNP_98137_A_13878	NW_004516772.1	scaffold1614	13878	GG	CC	CC	INTERGENIC			
SNP_98138_A_13933	NW_004516772.1	scaffold1614	13933	CC	TT	TT	INTERGENIC			
SNP_98139_A_14103	NW_004516772.1	scaffold1614	14103	TT	AA	AA	INTERGENIC			
SNP_98140_A_14189	NW_004516772.1	scaffold1614	14189	AA	CC	CC	INTERGENIC			
SNP_98141_A_14195	NW_004516772.1	scaffold1614	14195	GG	CC	CC	INTERGENIC			
SNP_98142_A_14198	NW_004516772.1	scaffold1614	14198	TT	CC	CC	INTERGENIC			
SNP_98143_A_14276	NW_004516772.1	scaffold1614	14276	TT	GG	GG	INTERGENIC			
SNP_98144_A_58041	NW_004516772.1	scaffold1614	58041	TT	GG	GG	INTERGENIC			
SNP_98145_A_62087	NW_004516772.1	scaffold1614	62087	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98146_A_66848	NW_004516772.1	scaffold1614	66848	CC	TT	TT	INTERGENIC		
SNP_98147_A_70035	NW_004516772.1	scaffold1614	70035	TT	AA	AA	INTERGENIC		
SNP_98148_A_96569	NW_004516772.1	scaffold1614	96569	CC	TT	TT	INTERGENIC		
SNP_98149_A_97219	NW_004516772.1	scaffold1614	97219	GG	CC	CC	INTERGENIC		
SNP_98150_A_99702	NW_004516772.1	scaffold1614	99702	CC	TT	TT	INTERGENIC		
SNP_98151_A_100165	NW_004516772.1	scaffold1614	100165	AA	GG	GG	INTERGENIC		
SNP_98152_A_100446	NW_004516772.1	scaffold1614	100446	CC	AA	AA	INTERGENIC		
SNP_98153_A_102331	NW_004516772.1	scaffold1614	102331	TT	GG	GG	INTERGENIC		
SNP_98154_A_102663	NW_004516772.1	scaffold1614	102663	TT	GG	GG	INTERGENIC		
SNP_98155_A_103646	NW_004516772.1	scaffold1614	103646	GG	TT	TT	INTERGENIC		
SNP_98156_A_104578	NW_004516772.1	scaffold1614	104578	CC	TT	TT	INTERGENIC		
SNP_98157_A_104583	NW_004516772.1	scaffold1614	104583	CC	TT	TT	INTERGENIC		
SNP_98158_A_105128	NW_004516772.1	scaffold1614	105128	TT	GG	GG	INTERGENIC		
SNP_98159_A_108769	NW_004516772.1	scaffold1614	108769	GG	AA	AA	INTERGENIC		
SNP_98160_A_108782	NW_004516772.1	scaffold1614	108782	CC	TT	TT	INTERGENIC		
SNP_98161_A_110728	NW_004516772.1	scaffold1614	110728	TT	GG	GG	INTERGENIC		
SNP_98162_A_111066	NW_004516772.1	scaffold1614	111066	TT	CC	CC	INTERGENIC		
SNP_98163_A_111164	NW_004516772.1	scaffold1614	111164	GG	AA	AA	INTERGENIC		
SNP_98164_A_112879	NW_004516772.1	scaffold1614	112879	TT	AA	AA	INTERGENIC		
SNP_98165_A_113023	NW_004516772.1	scaffold1614	113023	AA	TT	TT	INTERGENIC		
SNP_98166_A_113229	NW_004516772.1	scaffold1614	113229	TT	CC	CC	INTERGENIC		
SNP_98167_A_113859	NW_004516772.1	scaffold1614	113859	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98168_A_113930	NW_004516772.1	scaffold1614	113930	AA	TT	TT	INTERGENIC			
SNP_98169_A_114003	NW_004516772.1	scaffold1614	114003	TT	CC	CC	INTERGENIC			
SNP_98170_A_114019	NW_004516772.1	scaffold1614	114019	CC	TT	TT	INTERGENIC			
SNP_98171_A_114044	NW_004516772.1	scaffold1614	114044	TT	CC	CC	INTERGENIC			
SNP_98172_A_114068	NW_004516772.1	scaffold1614	114068	TT	CC	CC	INTERGENIC			
SNP_98173_A_114325	NW_004516772.1	scaffold1614	114325	AA	GG	GG	INTERGENIC			
SNP_98174_A_114700	NW_004516772.1	scaffold1614	114700	CC	TT	TT	INTERGENIC			
SNP_98175_A_114723	NW_004516772.1	scaffold1614	114723	AA	TT	TT	INTERGENIC			
SNP_98176_A_114756	NW_004516772.1	scaffold1614	114756	AA	TT	TT	INTERGENIC			
SNP_98177_A_114805	NW_004516772.1	scaffold1614	114805	GG	AA	AA	INTERGENIC			
SNP_98178_A_114810	NW_004516772.1	scaffold1614	114810	GG	AA	AA	INTERGENIC			
SNP_98179_A_114818	NW_004516772.1	scaffold1614	114818	AA	TT	TT	INTERGENIC			
SNP_98180_A_114900	NW_004516772.1	scaffold1614	114900	TT	CC	CC	INTERGENIC			
SNP_98181_A_114920	NW_004516772.1	scaffold1614	114920	TT	AA	AA	INTERGENIC			
SNP_98182_A_114921	NW_004516772.1	scaffold1614	114921	AA	TT	TT	INTERGENIC			
SNP_98183_A_114926	NW_004516772.1	scaffold1614	114926	TT	GG	GG	INTERGENIC			
SNP_98184_A_114977	NW_004516772.1	scaffold1614	114977	AA	CC	CC	INTERGENIC			
SNP_98185_A_115028	NW_004516772.1	scaffold1614	115028	CC	TT	TT	INTERGENIC			
SNP_98186_A_115113	NW_004516772.1	scaffold1614	115113	AA	GG	GG	INTERGENIC			
SNP_98187_A_115114	NW_004516772.1	scaffold1614	115114	TT	GG	GG	INTERGENIC			
SNP_98188_A_115120	NW_004516772.1	scaffold1614	115120	CC	GG	GG	INTERGENIC			
SNP_98189_A_115131	NW_004516772.1	scaffold1614	115131	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98190_A_115627	NW_004516772.1	scaffold1614	115627	GG	AA	AA	INTERGENIC			
SNP_98191_A_115749	NW_004516772.1	scaffold1614	115749	TT	CC	CC	INTERGENIC			
SNP_98192_A_115750	NW_004516772.1	scaffold1614	115750	GG	AA	AA	INTERGENIC			
SNP_98193_A_115760	NW_004516772.1	scaffold1614	115760	GG	AA	AA	INTERGENIC			
SNP_98194_A_115773	NW_004516772.1	scaffold1614	115773	GG	CC	CC	INTERGENIC			
SNP_98195_A_115857	NW_004516772.1	scaffold1614	115857	CC	TT	TT	INTERGENIC			
SNP_98196_A_116264	NW_004516772.1	scaffold1614	116264	TT	AA	AA	INTERGENIC			
SNP_98197_A_116740	NW_004516772.1	scaffold1614	116740	AA	TT	TT	INTERGENIC			
SNP_98198_A_116917	NW_004516772.1	scaffold1614	116917	CC	GG	GG	INTERGENIC			
SNP_98199_A_118616	NW_004516772.1	scaffold1614	118616	AA	TT	TT	INTERGENIC			
SNP_98200_A_118980	NW_004516772.1	scaffold1614	118980	TT	CC	CC	INTERGENIC			
SNP_98201_A_119678	NW_004516772.1	scaffold1614	119678	TT	GG	GG	INTERGENIC			
SNP_98202_A_119989	NW_004516772.1	scaffold1614	119989	TT	GG	GG	INTERGENIC			
SNP_98203_A_120875	NW_004516772.1	scaffold1614	120875	GG	CC	CC	INTERGENIC			
SNP_98204_A_120964	NW_004516772.1	scaffold1614	120964	TT	AA	AA	INTERGENIC			
SNP_98205_A_121033	NW_004516772.1	scaffold1614	121033	CC	GG	GG	INTERGENIC			
SNP_98206_A_121043	NW_004516772.1	scaffold1614	121043	CC	TT	TT	INTERGENIC			
SNP_98207_A_121702	NW_004516772.1	scaffold1614	121702	AA	CC	CC	INTERGENIC			
SNP_98208_A_124167	NW_004516772.1	scaffold1614	124167	AA	CC	CC	INTERGENIC			
SNP_98209_A_124290	NW_004516772.1	scaffold1614	124290	GG	AA	AA	INTERGENIC			
SNP_98210_A_124660	NW_004516772.1	scaffold1614	124660	GG	TT	TT	INTERGENIC			
SNP_98212_A_132630	NW_004516772.1	scaffold1614	132630	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98213_A_132680	NW_004516772.1	scaffold1614	132680	AA	GG	GG	INTERGENIC			
SNP_98214_A_132916	NW_004516772.1	scaffold1614	132916	CC	AA	AA	INTERGENIC			
SNP_98215_A_133251	NW_004516772.1	scaffold1614	133251	TT	GG	GG	INTERGENIC			
SNP_98216_A_134404	NW_004516772.1	scaffold1614	134404	AA	TT	TT	INTERGENIC			
SNP_98217_A_135517	NW_004516772.1	scaffold1614	135517	GG	AA	AA	INTERGENIC			
SNP_98218_A_135560	NW_004516772.1	scaffold1614	135560	CC	TT	TT	INTERGENIC			
SNP_98219_A_136578	NW_004516772.1	scaffold1614	136578	GG	TT	TT	INTERGENIC			
SNP_98220_A_137114	NW_004516772.1	scaffold1614	137114	CC	GG	GG	INTERGENIC			
SNP_98221_A_140867	NW_004516772.1	scaffold1614	140867	CC	TT	TT	INTERGENIC			
SNP_98222_A_141715	NW_004516772.1	scaffold1614	141715	GG	AA	AA	INTERGENIC			
SNP_98223_A_142008	NW_004516772.1	scaffold1614	142008	TT	GG	GG	INTERGENIC			
SNP_98224_A_145930	NW_004516772.1	scaffold1614	145930	AA	TT	TT	INTERGENIC			
SNP_98225_A_146683	NW_004516772.1	scaffold1614	146683	TT	CC	CC	INTERGENIC			
SNP_98226_A_148170	NW_004516772.1	scaffold1614	148170	AA	TT	TT	INTERGENIC			
SNP_98227_A_148233	NW_004516772.1	scaffold1614	148233	AA	GG	GG	INTERGENIC			
SNP_98228_A_148237	NW_004516772.1	scaffold1614	148237	AA	GG	GG	INTERGENIC			
SNP_98229_A_148238	NW_004516772.1	scaffold1614	148238	CC	GG	GG	INTERGENIC			
SNP_98230_A_151877	NW_004516772.1	scaffold1614	151877	TT	AA	AA	INTERGENIC			
SNP_98231_A_151892	NW_004516772.1	scaffold1614	151892	AA	TT	TT	INTERGENIC			
SNP_98232_A_152936	NW_004516772.1	scaffold1614	152936	CC	TT	TT	INTERGENIC			
SNP_98233_A_153481	NW_004516772.1	scaffold1614	153481	CC	TT	TT	INTERGENIC			
SNP_98234_A_154090	NW_004516772.1	scaffold1614	154090	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98235_A_154092	NW_004516772.1	scaffold1614	154092	AA	CC	CC	INTERGENIC			
SNP_98236_A_154173	NW_004516772.1	scaffold1614	154173	GG	CC	CC	INTERGENIC			
SNP_98237_A_154349	NW_004516772.1	scaffold1614	154349	CC	AA	AA	INTERGENIC			
SNP_98238_A_154402	NW_004516772.1	scaffold1614	154402	CC	TT	TT	INTERGENIC			
SNP_98239_A_155028	NW_004516772.1	scaffold1614	155028	GG	TT	TT	INTERGENIC			
SNP_98240_A_155686	NW_004516772.1	scaffold1614	155686	TT	CC	CC	INTERGENIC			
SNP_98241_A_157135	NW_004516772.1	scaffold1614	157135	GG	CC	CC	INTERGENIC			
SNP_98242_A_158187	NW_004516772.1	scaffold1614	158187	CC	GG	GG	INTERGENIC			
SNP_98243_A_158255	NW_004516772.1	scaffold1614	158255	AA	GG	GG	INTERGENIC			
SNP_98244_A_159007	NW_004516772.1	scaffold1614	159007	CC	GG	GG	INTERGENIC			
SNP_98245_A_159655	NW_004516772.1	scaffold1614	159655	AA	CC	CC	INTERGENIC			
SNP_98246_A_160277	NW_004516772.1	scaffold1614	160277	TT	CC	CC	INTERGENIC			
SNP_98247_A_161453	NW_004516772.1	scaffold1614	161453	AA	GG	GG	INTERGENIC			
SNP_98248_A_161706	NW_004516772.1	scaffold1614	161706	AA	CC	CC	INTERGENIC			
SNP_98249_A_162051	NW_004516772.1	scaffold1614	162051	CC	GG	GG	INTERGENIC			
SNP_98250_A_162298	NW_004516772.1	scaffold1614	162298	CC	GG	GG	INTERGENIC			
SNP_98251_A_162315	NW_004516772.1	scaffold1614	162315	AA	CC	CC	INTERGENIC			
SNP_98252_A_163848	NW_004516772.1	scaffold1614	163848	AA	GG	GG	INTERGENIC			
SNP_98253_A_163859	NW_004516772.1	scaffold1614	163859	GG	AA	AA	INTERGENIC			
SNP_98254_A_163872	NW_004516772.1	scaffold1614	163872	GG	AA	AA	INTERGENIC			
SNP_98255_A_163894	NW_004516772.1	scaffold1614	163894	GG	AA	AA	INTERGENIC			
SNP_98256_A_164141	NW_004516772.1	scaffold1614	164141	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98257_A_164145	NW_004516772.1	scaffold1614	164145	AA	GG	GG	INTERGENIC			
SNP_98258_A_164153	NW_004516772.1	scaffold1614	164153	CC	GG	GG	INTERGENIC			
SNP_98259_A_164156	NW_004516772.1	scaffold1614	164156	AA	TT	TT	INTERGENIC			
SNP_98260_A_164157	NW_004516772.1	scaffold1614	164157	CC	AA	AA	INTERGENIC			
SNP_98261_A_164277	NW_004516772.1	scaffold1614	164277	AA	GG	GG	INTERGENIC			
SNP_98262_A_164282	NW_004516772.1	scaffold1614	164282	TT	GG	GG	INTERGENIC			
SNP_98263_A_164494	NW_004516772.1	scaffold1614	164494	GG	AA	AA	INTERGENIC			
SNP_98264_A_164504	NW_004516772.1	scaffold1614	164504	CC	TT	TT	INTERGENIC			
SNP_98265_A_164533	NW_004516772.1	scaffold1614	164533	CC	TT	TT	INTERGENIC			
SNP_98266_A_164555	NW_004516772.1	scaffold1614	164555	GG	AA	AA	INTERGENIC			
SNP_98267_A_167342	NW_004516772.1	scaffold1614	167342	GG	TT	TT	INTERGENIC			
SNP_98268_A_168729	NW_004516772.1	scaffold1614	168729	TT	CC	CC	INTERGENIC			
SNP_98269_A_168858	NW_004516772.1	scaffold1614	168858	GG	CC	CC	INTERGENIC			
SNP_98270_A_169135	NW_004516772.1	scaffold1614	169135	AA	CC	CC	INTERGENIC			
SNP_98271_A_184308	NW_004516772.1	scaffold1614	184308	AA	CC	CC	INTERGENIC			
SNP_98272_A_186600	NW_004516772.1	scaffold1614	186600	GG	AA	AA	INTERGENIC			
SNP_98273_A_186861	NW_004516772.1	scaffold1614	186861	CC	AA	AA	INTERGENIC			
SNP_98274_A_186870	NW_004516772.1	scaffold1614	186870	CC	GG	GG	INTERGENIC			
SNP_98275_A_187728	NW_004516772.1	scaffold1614	187728	AA	GG	GG	INTERGENIC			
SNP_98276_A_188421	NW_004516772.1	scaffold1614	188421	AA	CC	CC	INTERGENIC			
SNP_98278_A_190866	NW_004516772.1	scaffold1614	190866	TT	AA	AA	INTERGENIC			
SNP_98279_A_192873	NW_004516772.1	scaffold1614	192873	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98280_A_193075	NW_004516772.1	scaffold1614	193075	GG	AA	AA	INTERGENIC			
SNP_98281_A_193112	NW_004516772.1	scaffold1614	193112	GG	AA	AA	INTERGENIC			
SNP_98282_A_193134	NW_004516772.1	scaffold1614	193134	AA	GG	GG	INTERGENIC			
SNP_98283_A_194652	NW_004516772.1	scaffold1614	194652	GG	AA	AA	INTERGENIC			
SNP_98284_A_546	NW_004516773.1	scaffold1615	546	CC	TT	TT	INTERGENIC			
SNP_98285_A_549	NW_004516773.1	scaffold1615	549	GG	AA	AA	INTERGENIC			
SNP_98286_A_430	NW_004516775.1	scaffold1620	430	TT	GG	GG	INTERGENIC			
SNP_98287_A_516	NW_004516775.1	scaffold1620	516	TT	CC	CC	INTERGENIC			
SNP_98288_A_810	NW_004516775.1	scaffold1620	810	TT	GG	GG	INTERGENIC			
SNP_98289_A_1074	NW_004516775.1	scaffold1620	1074	GG	AA	AA	INTERGENIC			
SNP_98290_A_1163	NW_004516775.1	scaffold1620	1163	GG	AA	AA	INTERGENIC			
SNP_98291_A_1228	NW_004516775.1	scaffold1620	1228	GG	AA	AA	INTERGENIC			
SNP_98292_A_14045	NW_004516777.1	scaffold1623	14045	GG	TT	TT	INTERGENIC			
SNP_98293_A_14738	NW_004516779.1	scaffold1626	14738	TT	CC	CC	INTERGENIC			
SNP_98294_A_14739	NW_004516779.1	scaffold1626	14739	GG	AA	AA	INTERGENIC			
SNP_98295_A_14742	NW_004516779.1	scaffold1626	14742	GG	AA	AA	INTERGENIC			
SNP_98296_A_31246	NW_004516779.1	scaffold1626	31246	AA	GG	GG	INTERGENIC			
SNP_98297_A_31484	NW_004516779.1	scaffold1626	31484	TT	GG	GG	INTERGENIC			
SNP_98298_A_31500	NW_004516779.1	scaffold1626	31500	AA	GG	GG	INTERGENIC			
SNP_98299_A_31539	NW_004516779.1	scaffold1626	31539	AA	CC	CC	INTERGENIC			
SNP_98300_A_32455	NW_004516779.1	scaffold1626	32455	CC	TT	TT	INTERGENIC			
SNP_98301_A_37718	NW_004516779.1	scaffold1626	37718	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98302_A_108691	NW_004516779.1	scaffold1626	108691	TT	GG	GG	INTERGENIC			
SNP_98304_A_127026	NW_004516779.1	scaffold1626	127026	TT	CC	CC	INTERGENIC			
SNP_98305_A_127322	NW_004516779.1	scaffold1626	127322	GG	AA	AA	INTERGENIC			
SNP_98306_A_128015	NW_004516779.1	scaffold1626	128015	AA	TT	TT	INTERGENIC			
SNP_98307_A_144738	NW_004516779.1	scaffold1626	144738	GG	AA	AA	INTERGENIC			
SNP_98308_A_2346	NW_004516781.1	scaffold1630	2346	AA	CC	CC	INTERGENIC			
SNP_98309_A_5941	NW_004516781.1	scaffold1630	5941	TT	CC	CC	INTERGENIC			
SNP_98311_A_8855	NW_004516781.1	scaffold1630	8855	AA	GG	GG	INTERGENIC			
SNP_98312_A_11912	NW_004516781.1	scaffold1630	11912	CC	AA	AA	INTERGENIC			
SNP_98313_A_11950	NW_004516781.1	scaffold1630	11950	TT	CC	CC	INTERGENIC			
SNP_98314_A_13295	NW_004516781.1	scaffold1630	13295	GG	TT	TT	INTERGENIC			
SNP_98315_A_13474	NW_004516781.1	scaffold1630	13474	TT	AA	AA	INTERGENIC			
SNP_98316_A_20399	NW_004516781.1	scaffold1630	20399	GG	AA	AA	INTERGENIC			
SNP_98317_A_20425	NW_004516781.1	scaffold1630	20425	GG	TT	TT	INTERGENIC			
SNP_98318_A_20430	NW_004516781.1	scaffold1630	20430	CC	TT	TT	INTERGENIC			
SNP_98319_A_28743	NW_004516781.1	scaffold1630	28743	GG	AA	AA	INTERGENIC			
SNP_98320_A_30252	NW_004516781.1	scaffold1630	30252	AA	TT	TT	INTERGENIC			
SNP_98321_A_30264	NW_004516781.1	scaffold1630	30264	CC	TT	TT	INTERGENIC			
SNP_98322_A_30269	NW_004516781.1	scaffold1630	30269	TT	CC	CC	INTERGENIC			
SNP_98323_A_30284	NW_004516781.1	scaffold1630	30284	GG	CC	CC	INTERGENIC			
SNP_98324_A_30432	NW_004516781.1	scaffold1630	30432	AA	GG	GG	INTERGENIC			
SNP_98325_A_30439	NW_004516781.1	scaffold1630	30439	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98326_A_30471	NW_004516781.1	scaffold1630	30471	TT	CC	CC	INTERGENIC			
SNP_98327_A_30532	NW_004516781.1	scaffold1630	30532	GG	AA	AA	INTERGENIC			
SNP_98328_A_30546	NW_004516781.1	scaffold1630	30546	TT	CC	CC	INTERGENIC			
SNP_98329_A_30550	NW_004516781.1	scaffold1630	30550	AA	TT	TT	INTERGENIC			
SNP_98330_A_37113	NW_004516781.1	scaffold1630	37113	CC	TT	TT	INTERGENIC			
SNP_98331_A_37251	NW_004516781.1	scaffold1630	37251	TT	AA	AA	INTERGENIC			
SNP_98332_A_37317	NW_004516781.1	scaffold1630	37317	TT	AA	AA	INTERGENIC			
SNP_98333_A_37323	NW_004516781.1	scaffold1630	37323	GG	CC	CC	INTERGENIC			
SNP_98334_A_37333	NW_004516781.1	scaffold1630	37333	GG	TT	TT	INTERGENIC			
SNP_98335_A_37343	NW_004516781.1	scaffold1630	37343	GG	CC	CC	INTERGENIC			
SNP_98336_A_37606	NW_004516781.1	scaffold1630	37606	TT	CC	CC	INTERGENIC			
SNP_98337_A_37643	NW_004516781.1	scaffold1630	37643	AA	TT	TT	INTERGENIC			
SNP_98338_A_41226	NW_004516781.1	scaffold1630	41226	AA	GG	GG	INTERGENIC			
SNP_98339_A_44047	NW_004516781.1	scaffold1630	44047	GG	CC	CC	INTERGENIC			
SNP_98340_A_57190	NW_004516781.1	scaffold1630	57190	GG	AA	AA	INTERGENIC			
SNP_98341_A_57318	NW_004516781.1	scaffold1630	57318	CC	TT	TT	INTERGENIC			
SNP_98342_A_57327	NW_004516781.1	scaffold1630	57327	AA	GG	GG	INTERGENIC			
SNP_98343_A_81561	NW_004516781.1	scaffold1630	81561	AA	TT	TT	INTERGENIC			
SNP_98344_A_91501	NW_004516781.1	scaffold1630	91501	TT	CC	CC	INTERGENIC			
SNP_98345_A_91504	NW_004516781.1	scaffold1630	91504	GG	AA	AA	INTERGENIC			
SNP_98346_A_93374	NW_004516781.1	scaffold1630	93374	GG	AA	AA	INTERGENIC			
SNP_98347_A_93377	NW_004516781.1	scaffold1630	93377	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98348_A_96750	NW_004516781.1	scaffold1630	96750	AA	CC	CC	INTERGENIC			
SNP_98349_A_105399	NW_004516781.1	scaffold1630	105399	GG	AA	AA	INTERGENIC			
SNP_98350_A_106780	NW_004516781.1	scaffold1630	106780	TT	AA	AA	INTERGENIC			
SNP_98351_A_106811	NW_004516781.1	scaffold1630	106811	GG	AA	AA	INTERGENIC			
SNP_98352_A_106812	NW_004516781.1	scaffold1630	106812	GG	AA	AA	INTERGENIC			
SNP_98353_A_106827	NW_004516781.1	scaffold1630	106827	CC	TT	TT	INTERGENIC			
SNP_98354_A_106833	NW_004516781.1	scaffold1630	106833	AA	GG	GG	INTERGENIC			
SNP_98355_A_106838	NW_004516781.1	scaffold1630	106838	TT	GG	GG	INTERGENIC			
SNP_98356_A_106906	NW_004516781.1	scaffold1630	106906	AA	CC	CC	INTERGENIC			
SNP_98357_A_107430	NW_004516781.1	scaffold1630	107430	GG	CC	CC	INTERGENIC			
SNP_98358_A_107734	NW_004516781.1	scaffold1630	107734	CC	AA	AA	INTERGENIC			
SNP_98359_A_107736	NW_004516781.1	scaffold1630	107736	TT	CC	CC	INTERGENIC			
SNP_98360_A_107740	NW_004516781.1	scaffold1630	107740	AA	TT	TT	INTERGENIC			
SNP_98361_A_107747	NW_004516781.1	scaffold1630	107747	TT	AA	AA	INTERGENIC			
SNP_98362_A_107764	NW_004516781.1	scaffold1630	107764	CC	TT	TT	INTERGENIC			
SNP_98363_A_107794	NW_004516781.1	scaffold1630	107794	AA	GG	GG	INTERGENIC			
SNP_98364_A_107815	NW_004516781.1	scaffold1630	107815	AA	TT	TT	INTERGENIC			
SNP_98365_A_112867	NW_004516781.1	scaffold1630	112867	GG	AA	AA	INTERGENIC			
SNP_98366_A_112875	NW_004516781.1	scaffold1630	112875	CC	TT	TT	INTERGENIC			
SNP_98367_A_113259	NW_004516781.1	scaffold1630	113259	AA	GG	GG	INTERGENIC			
SNP_98368_A_113272	NW_004516781.1	scaffold1630	113272	TT	AA	AA	INTERGENIC			
SNP_98369_A_121188	NW_004516781.1	scaffold1630	121188	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98370_A_125683	NW_004516781.1	scaffold1630	125683	GG	TT	TT	INTERGENIC			
SNP_98371_A_136763	NW_004516781.1	scaffold1630	136763	GG	CC	CC	INTERGENIC			
SNP_98372_A_136771	NW_004516781.1	scaffold1630	136771	TT	CC	CC	INTERGENIC			
SNP_98373_A_143193	NW_004516781.1	scaffold1630	143193	AA	CC	CC	INTERGENIC			
SNP_98374_A_158029	NW_004516781.1	scaffold1630	158029	GG	CC	CC	INTERGENIC			
SNP_98375_A_158055	NW_004516781.1	scaffold1630	158055	TT	AA	AA	INTERGENIC			
SNP_98376_A_177196	NW_004516781.1	scaffold1630	177196	AA	GG	GG	INTERGENIC			
SNP_98377_A_185020	NW_004516781.1	scaffold1630	185020	CC	AA	AA	INTERGENIC			
SNP_98378_A_185283	NW_004516781.1	scaffold1630	185283	TT	AA	AA	INTERGENIC			
SNP_98380_A_58366	NW_004516782.1	scaffold1631	58366	TT	AA	AA	INTERGENIC			
SNP_98381_A_86604	NW_004516782.1	scaffold1631	86604	TT	GG	GG	INTERGENIC			
SNP_98382_A_121042	NW_004516782.1	scaffold1631	121042	AA	GG	GG	INTERGENIC			
SNP_98383_A_121043	NW_004516782.1	scaffold1631	121043	AA	TT	TT	INTERGENIC			
SNP_98384_A_121105	NW_004516782.1	scaffold1631	121105	GG	AA	AA	INTERGENIC			
SNP_98385_A_121402	NW_004516782.1	scaffold1631	121402	CC	TT	TT	INTERGENIC			
SNP_98386_A_143672	NW_004516782.1	scaffold1631	143672	GG	AA	AA	INTERGENIC			
SNP_98387_A_175706	NW_004516782.1	scaffold1631	175706	TT	CC	CC	INTERGENIC			
SNP_98388_A_175712	NW_004516782.1	scaffold1631	175712	AA	GG	GG	INTERGENIC			
SNP_98389_A_175723	NW_004516782.1	scaffold1631	175723	CC	AA	AA	INTERGENIC			
SNP_98390_A_175754	NW_004516782.1	scaffold1631	175754	TT	CC	CC	INTERGENIC			
SNP_98391_A_176823	NW_004516782.1	scaffold1631	176823	TT	CC	CC	INTERGENIC			
SNP_98392_A_176841	NW_004516782.1	scaffold1631	176841	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98394_A_26487	NW_004516783.1	scaffold1632	26487	TT	CC	CC	INTERGENIC		
SNP_98395_A_26610	NW_004516783.1	scaffold1632	26610	AA	GG	GG	INTERGENIC		
SNP_98396_A_34938	NW_004516783.1	scaffold1632	34938	CC	TT	TT	URR	101488295	uncharacterized LOC101488295
SNP_98397_A_36996	NW_004516783.1	scaffold1632	36996	AA	GG	GG	DRR	101488622	uncharacterized LOC101488622
SNP_98398_A_62189	NW_004516784.1	scaffold1633	62189	TT	CC	CC	DRR	101489940	serine/threonine-protein phosphatase 7 long form homolog
SNP_98399_A_96778	NW_004516784.1	scaffold1633	96778	TT	GG	GG	INTERGENIC		
SNP_98400_A_96779	NW_004516784.1	scaffold1633	96779	TT	GG	GG	INTERGENIC		
SNP_98401_A_115333	NW_004516784.1	scaffold1633	115333	CC	AA	AA	INTERGENIC		
SNP_98402_A_121876	NW_004516784.1	scaffold1633	121876	TT	CC	CC	INTERGENIC		
SNP_98403_A_122049	NW_004516784.1	scaffold1633	122049	CC	AA	AA	INTERGENIC		
SNP_98404_A_15447	NW_004516785.1	scaffold1634	15447	TT	CC	CC	INTERGENIC		
SNP_98405_A_18473	NW_004516785.1	scaffold1634	18473	AA	CC	CC	INTERGENIC		
SNP_98406_A_18577	NW_004516785.1	scaffold1634	18577	TT	CC	CC	INTERGENIC		
SNP_98407_A_18780	NW_004516785.1	scaffold1634	18780	TT	CC	CC	INTERGENIC		
SNP_98408_A_18927	NW_004516785.1	scaffold1634	18927	TT	GG	GG	INTERGENIC		
SNP_98409_A_18994	NW_004516785.1	scaffold1634	18994	CC	TT	TT	INTERGENIC		
SNP_98410_A_20967	NW_004516785.1	scaffold1634	20967	CC	TT	TT	INTERGENIC		
SNP_98411_A_23536	NW_004516785.1	scaffold1634	23536	CC	TT	TT	INTERGENIC		
SNP_98412_A_23539	NW_004516785.1	scaffold1634	23539	GG	AA	AA	INTERGENIC		
SNP_98413_A_23542	NW_004516785.1	scaffold1634	23542	TT	AA	AA	INTERGENIC		
SNP_98414_A_23544	NW_004516785.1	scaffold1634	23544	GG	AA	AA	INTERGENIC		
SNP_98415_A_23549	NW_004516785.1	scaffold1634	23549	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98416_A_23551	NW_004516785.1	scaffold1634	23551	AA	CC	CC	INTERGENIC			
SNP_98417_A_23557	NW_004516785.1	scaffold1634	23557	CC	TT	TT	INTERGENIC			
SNP_98418_A_34903	NW_004516785.1	scaffold1634	34903	GG	AA	AA	INTERGENIC			
SNP_98419_A_8356	NW_004516786.1	scaffold1635	8356	AA	CC	CC	INTERGENIC			
SNP_98420_A_34634	NW_004516786.1	scaffold1635	34634	CC	TT	TT	INTERGENIC			
SNP_98421_A_35178	NW_004516786.1	scaffold1635	35178	CC	TT	TT	INTERGENIC			
SNP_98422_A_72076	NW_004516786.1	scaffold1635	72076	AA	GG	GG	INTERGENIC			
SNP_98423_A_72086	NW_004516786.1	scaffold1635	72086	AA	TT	TT	INTERGENIC			
SNP_98424_A_72305	NW_004516786.1	scaffold1635	72305	AA	GG	GG	INTERGENIC			
SNP_98425_A_72471	NW_004516786.1	scaffold1635	72471	CC	TT	TT	INTERGENIC			
SNP_98427_A_74294	NW_004516786.1	scaffold1635	74294	AA	CC	CC	INTERGENIC			
SNP_98428_A_74816	NW_004516786.1	scaffold1635	74816	TT	CC	CC	INTERGENIC			
SNP_98429_A_75030	NW_004516786.1	scaffold1635	75030	GG	AA	AA	INTERGENIC			
SNP_98430_A_75133	NW_004516786.1	scaffold1635	75133	TT	CC	CC	INTERGENIC			
SNP_98431_A_75222	NW_004516786.1	scaffold1635	75222	CC	TT	TT	INTERGENIC			
SNP_98432_A_105109	NW_004516786.1	scaffold1635	105109	AA	GG	GG	INTERGENIC			
SNP_98433_A_105130	NW_004516786.1	scaffold1635	105130	CC	GG	GG	INTERGENIC			
SNP_98434_A_130437	NW_004516786.1	scaffold1635	130437	AA	GG	GG	INTERGENIC			
SNP_98435_A_131484	NW_004516786.1	scaffold1635	131484	GG	AA	AA	INTERGENIC			
SNP_98436_A_131494	NW_004516786.1	scaffold1635	131494	AA	TT	TT	INTERGENIC			
SNP_98437_A_131496	NW_004516786.1	scaffold1635	131496	GG	CC	CC	INTERGENIC			
SNP_98438_A_131503	NW_004516786.1	scaffold1635	131503	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98439_A_131509	NW_004516786.1	scaffold1635	131509	CC	TT	TT	INTERGENIC			
SNP_98440_A_131514	NW_004516786.1	scaffold1635	131514	GG	TT	TT	INTERGENIC			
SNP_98441_A_131543	NW_004516786.1	scaffold1635	131543	AA	TT	TT	INTERGENIC			
SNP_98442_A_131590	NW_004516786.1	scaffold1635	131590	AA	CC	CC	INTERGENIC			
SNP_98443_A_131627	NW_004516786.1	scaffold1635	131627	TT	CC	CC	INTERGENIC			
SNP_98444_A_131629	NW_004516786.1	scaffold1635	131629	GG	TT	TT	INTERGENIC			
SNP_98445_A_131691	NW_004516786.1	scaffold1635	131691	TT	AA	AA	INTERGENIC			
SNP_98446_A_131703	NW_004516786.1	scaffold1635	131703	TT	CC	CC	INTERGENIC			
SNP_98447_A_133264	NW_004516786.1	scaffold1635	133264	GG	TT	TT	INTERGENIC			
SNP_98448_A_140023	NW_004516786.1	scaffold1635	140023	TT	AA	AA	INTERGENIC			
SNP_98449_A_1243	NW_004516787.1	scaffold1637	1243	AA	GG	GG	INTERGENIC			
SNP_98450_A_1272	NW_004516787.1	scaffold1637	1272	CC	GG	GG	INTERGENIC			
SNP_98451_A_9915	NW_004516788.1	scaffold1638	9915	AA	TT	TT	INTERGENIC			
SNP_98452_A_9916	NW_004516788.1	scaffold1638	9916	TT	AA	AA	INTERGENIC			
SNP_98453_A_32356	NW_004516788.1	scaffold1638	32356	CC	TT	TT	INTERGENIC			
SNP_98454_A_46227	NW_004516788.1	scaffold1638	46227	GG	TT	TT	INTERGENIC			
SNP_98455_A_53034	NW_004516788.1	scaffold1638	53034	TT	GG	GG	INTERGENIC			
SNP_98456_A_54485	NW_004516788.1	scaffold1638	54485	CC	TT	TT	INTERGENIC			
SNP_98457_A_54643	NW_004516788.1	scaffold1638	54643	CC	TT	TT	INTERGENIC			
SNP_98458_A_54648	NW_004516788.1	scaffold1638	54648	AA	GG	GG	INTERGENIC			
SNP_98459_A_54747	NW_004516788.1	scaffold1638	54747	AA	GG	GG	INTERGENIC			
SNP_98460_A_54757	NW_004516788.1	scaffold1638	54757	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98461_A_54784	NW_004516788.1	scaffold1638	54784	CC	TT	TT	INTERGENIC		
SNP_98462_A_54802	NW_004516788.1	scaffold1638	54802	AA	GG	GG	INTERGENIC		
SNP_98463_A_54852	NW_004516788.1	scaffold1638	54852	TT	AA	AA	INTERGENIC		
SNP_98464_A_54937	NW_004516788.1	scaffold1638	54937	TT	CC	CC	INTERGENIC		
SNP_98465_A_54951	NW_004516788.1	scaffold1638	54951	AA	TT	TT	INTERGENIC		
SNP_98466_A_68653	NW_004516788.1	scaffold1638	68653	CC	GG	GG	INTERGENIC		
SNP_98467_A_72544	NW_004516788.1	scaffold1638	72544	CC	GG	GG	INTERGENIC		
SNP_98468_A_1483	NW_004516792.1	scaffold1643	1483	TT	CC	CC	INTERGENIC		
SNP_98469_A_4477	NW_004516792.1	scaffold1643	4477	AA	TT	TT	INTERGENIC		
SNP_98470_A_4719	NW_004516792.1	scaffold1643	4719	AA	GG	GG	INTERGENIC		
SNP_98471_A_5189	NW_004516792.1	scaffold1643	5189	AA	CC	CC	DRR	101492194	B3 domain-containing protein At3g25182-like
SNP_98472_A_5330	NW_004516792.1	scaffold1643	5330	CC	GG	GG	DRR	101492194	B3 domain-containing protein At3g25182-like
SNP_98473_A_5412	NW_004516792.1	scaffold1643	5412	CC	TT	TT	DRR	101492194	B3 domain-containing protein At3g25182-like
SNP_98474_A_5442	NW_004516792.1	scaffold1643	5442	AA	GG	GG	DRR	101492194	B3 domain-containing protein At3g25182-like
SNP_98475_A_7499	NW_004516792.1	scaffold1643	7499	TT	CC	CC	URR	101492194	B3 domain-containing protein At3g25182-like
SNP_98476_A_8475	NW_004516792.1	scaffold1643	8475	AA	TT	TT	URR	101492194	B3 domain-containing protein At3g25182-like
SNP_98477_A_15680	NW_004516792.1	scaffold1643	15680	GG	AA	AA	INTERGENIC		
SNP_98478_A_15756	NW_004516792.1	scaffold1643	15756	AA	GG	GG	INTERGENIC		
SNP_98479_A_67727	NW_004516792.1	scaffold1643	67727	GG	AA	AA	INTERGENIC		
SNP_98481_A_67784	NW_004516792.1	scaffold1643	67784	TT	CC	CC	INTERGENIC		
SNP_98482_A_102607	NW_004516792.1	scaffold1643	102607	GG	AA	AA	INTRON	101493825	probable pectinesterase 55
SNP_98484_A_109194	NW_004516792.1	scaffold1643	109194	CC	TT	TT	INTRON	101493825	probable pectinesterase 55

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98486_A_126696	NW_004516792.1	scaffold1643	126696	AA	GG	GG	URR	101493825	probable pectinesterase 55
SNP_98487_A_128571	NW_004516792.1	scaffold1643	128571	CC	TT	TT	INTERGENIC		
SNP_98488_A_128594	NW_004516792.1	scaffold1643	128594	GG	AA	AA	INTERGENIC		
SNP_98489_A_128602	NW_004516792.1	scaffold1643	128602	AA	CC	CC	INTERGENIC		
SNP_98490_A_128603	NW_004516792.1	scaffold1643	128603	CC	TT	TT	INTERGENIC		
SNP_98491_A_128604	NW_004516792.1	scaffold1643	128604	GG	AA	AA	INTERGENIC		
SNP_98492_A_128605	NW_004516792.1	scaffold1643	128605	CC	TT	TT	INTERGENIC		
SNP_98495_A_155986	NW_004516792.1	scaffold1643	155986	CC	TT	TT	INTERGENIC		
SNP_98496_A_155994	NW_004516792.1	scaffold1643	155994	GG	AA	AA	INTERGENIC		
SNP_98497_A_155998	NW_004516792.1	scaffold1643	155998	GG	AA	AA	INTERGENIC		
SNP_98498_A_156027	NW_004516792.1	scaffold1643	156027	TT	CC	CC	INTERGENIC		
SNP_98499_A_159471	NW_004516792.1	scaffold1643	159471	GG	TT	TT	INTERGENIC		
SNP_98500_A_159512	NW_004516792.1	scaffold1643	159512	GG	AA	AA	INTERGENIC		
SNP_98501_A_159531	NW_004516792.1	scaffold1643	159531	CC	TT	TT	INTERGENIC		
SNP_98502_A_160876	NW_004516792.1	scaffold1643	160876	CC	AA	AA	INTERGENIC		
SNP_98503_A_160924	NW_004516792.1	scaffold1643	160924	TT	AA	AA	INTERGENIC		
SNP_98504_A_160933	NW_004516792.1	scaffold1643	160933	GG	AA	AA	INTERGENIC		
SNP_98505_A_160934	NW_004516792.1	scaffold1643	160934	TT	GG	GG	INTERGENIC		
SNP_98506_A_163566	NW_004516792.1	scaffold1643	163566	TT	CC	CC	INTERGENIC		
SNP_98508_A_163893	NW_004516792.1	scaffold1643	163893	GG	AA	AA	INTERGENIC		
SNP_98509_A_163963	NW_004516792.1	scaffold1643	163963	CC	AA	AA	INTERGENIC		
SNP_98510_A_164484	NW_004516792.1	scaffold1643	164484	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98511_A_164736	NW_004516792.1	scaffold1643	164736	TT	CC	CC	INTERGENIC			
SNP_98512_A_165562	NW_004516792.1	scaffold1643	165562	GG	AA	AA	INTERGENIC			
SNP_98514_A_166960	NW_004516792.1	scaffold1643	166960	AA	TT	TT	INTERGENIC			
SNP_98515_A_166961	NW_004516792.1	scaffold1643	166961	TT	AA	AA	INTERGENIC			
SNP_98516_A_166984	NW_004516792.1	scaffold1643	166984	AA	TT	TT	INTERGENIC			
SNP_98517_A_167002	NW_004516792.1	scaffold1643	167002	AA	CC	CC	INTERGENIC			
SNP_98518_A_167116	NW_004516792.1	scaffold1643	167116	GG	AA	AA	INTERGENIC			
SNP_98519_A_167336	NW_004516792.1	scaffold1643	167336	TT	CC	CC	INTERGENIC			
SNP_98520_A_167347	NW_004516792.1	scaffold1643	167347	GG	AA	AA	INTERGENIC			
SNP_98521_A_167375	NW_004516792.1	scaffold1643	167375	AA	GG	GG	INTERGENIC			
SNP_98522_A_167395	NW_004516792.1	scaffold1643	167395	AA	GG	GG	INTERGENIC			
SNP_98523_A_167398	NW_004516792.1	scaffold1643	167398	CC	TT	TT	INTERGENIC			
SNP_98524_A_167419	NW_004516792.1	scaffold1643	167419	TT	CC	CC	INTERGENIC			
SNP_98526_A_167454	NW_004516792.1	scaffold1643	167454	CC	AA	AA	INTERGENIC			
SNP_98527_A_167478	NW_004516792.1	scaffold1643	167478	GG	AA	AA	INTERGENIC			
SNP_98528_A_167511	NW_004516792.1	scaffold1643	167511	CC	TT	TT	INTERGENIC			
SNP_98529_A_167548	NW_004516792.1	scaffold1643	167548	AA	GG	GG	INTERGENIC			
SNP_98530_A_167549	NW_004516792.1	scaffold1643	167549	CC	TT	TT	INTERGENIC			
SNP_98531_A_167550	NW_004516792.1	scaffold1643	167550	GG	AA	AA	INTERGENIC			
SNP_98532_A_167584	NW_004516792.1	scaffold1643	167584	CC	AA	AA	INTERGENIC			
SNP_98533_A_167638	NW_004516792.1	scaffold1643	167638	TT	AA	AA	INTERGENIC			
SNP_98534_A_167656	NW_004516792.1	scaffold1643	167656	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98535_A_167681	NW_004516792.1	scaffold1643	167681	GG	AA	AA	INTERGENIC		
SNP_98536_A_167766	NW_004516792.1	scaffold1643	167766	TT	AA	AA	INTERGENIC		
SNP_98538_A_169482	NW_004516792.1	scaffold1643	169482	GG	AA	AA	DRR	101494460	probable pectinesterase 55
SNP_98539_A_169501	NW_004516792.1	scaffold1643	169501	GG	TT	TT	DRR	101494460	probable pectinesterase 55
SNP_98540_A_169558	NW_004516792.1	scaffold1643	169558	CC	TT	TT	DRR	101494460	probable pectinesterase 55
SNP_98541_A_170474	NW_004516792.1	scaffold1643	170474	TT	AA	AA	INTRON	101494460	probable pectinesterase 55
SNP_98542_A_170986	NW_004516792.1	scaffold1643	170986	CC	TT	TT	NON_SYNONYMOUS_CODING	101494460	probable pectinesterase 55
SNP_98544_A_171703	NW_004516792.1	scaffold1643	171703	CC	TT	TT	INTRON	101494460	probable pectinesterase 55
SNP_98545_A_171915	NW_004516792.1	scaffold1643	171915	CC	TT	TT	SYNONYMOUS_CODING	101494460	probable pectinesterase 55
SNP_98546_A_172001	NW_004516792.1	scaffold1643	172001	TT	AA	AA	INTRON	101494460	probable pectinesterase 55
SNP_98547_A_172037	NW_004516792.1	scaffold1643	172037	CC	TT	TT	INTRON	101494460	probable pectinesterase 55
SNP_98548_A_172294	NW_004516792.1	scaffold1643	172294	CC	AA	AA	INTRON	101494460	probable pectinesterase 55
SNP_98549_A_180898	NW_004516792.1	scaffold1643	180898	CC	TT	TT	SYNONYMOUS_CODING	101494460	probable pectinesterase 55
SNP_98550_A_180904	NW_004516792.1	scaffold1643	180904	CC	TT	TT	START_LOST	101494460	probable pectinesterase 55
SNP_98551_A_180916	NW_004516792.1	scaffold1643	180916	TT	CC	CC	URR	101494460	probable pectinesterase 55
SNP_98552_A_180924	NW_004516792.1	scaffold1643	180924	TT	CC	CC	URR	101494460	probable pectinesterase 55
SNP_98554_A_181071	NW_004516792.1	scaffold1643	181071	GG	CC	CC	URR	101494460	probable pectinesterase 55
SNP_98555_A_181151	NW_004516792.1	scaffold1643	181151	AA	CC	CC	URR	101494460	probable pectinesterase 55
SNP_98556_A_181164	NW_004516792.1	scaffold1643	181164	GG	AA	AA	URR	101494460	probable pectinesterase 55
SNP_98557_A_181333	NW_004516792.1	scaffold1643	181333	TT	GG	GG	URR	101494460	probable pectinesterase 55
SNP_98558_A_181385	NW_004516792.1	scaffold1643	181385	GG	AA	AA	URR	101494460	probable pectinesterase 55
SNP_98559_A_181447	NW_004516792.1	scaffold1643	181447	CC	TT	TT	URR	101494460	probable pectinesterase 55

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98560_A_181492	NW_004516792.1	scaffold1643	181492	GG	TT	TT	URR	101494460	probable pectinesterase 55
SNP_98561_A_183220	NW_004516792.1	scaffold1643	183220	AA	CC	CC	INTERGENIC		
SNP_98562_A_183228	NW_004516792.1	scaffold1643	183228	AA	GG	GG	INTERGENIC		
SNP_98563_A_183255	NW_004516792.1	scaffold1643	183255	TT	GG	GG	INTERGENIC		
SNP_98564_A_183302	NW_004516792.1	scaffold1643	183302	GG	AA	AA	INTERGENIC		
SNP_98565_A_183362	NW_004516792.1	scaffold1643	183362	TT	CC	CC	INTERGENIC		
SNP_98566_A_185554	NW_004516792.1	scaffold1643	185554	AA	GG	GG	INTERGENIC		
SNP_98567_A_187365	NW_004516792.1	scaffold1643	187365	GG	AA	AA	INTERGENIC		
SNP_98568_A_187405	NW_004516792.1	scaffold1643	187405	CC	TT	TT	INTERGENIC		
SNP_98569_A_187437	NW_004516792.1	scaffold1643	187437	CC	TT	TT	INTERGENIC		
SNP_98570_A_189062	NW_004516792.1	scaffold1643	189062	CC	TT	TT	INTERGENIC		
SNP_98571_A_189083	NW_004516792.1	scaffold1643	189083	GG	AA	AA	INTERGENIC		
SNP_98572_A_189086	NW_004516792.1	scaffold1643	189086	GG	AA	AA	INTERGENIC		
SNP_98573_A_189207	NW_004516792.1	scaffold1643	189207	CC	GG	GG	INTERGENIC		
SNP_98574_A_189959	NW_004516792.1	scaffold1643	189959	GG	AA	AA	INTERGENIC		
SNP_98575_A_189978	NW_004516792.1	scaffold1643	189978	CC	AA	AA	INTERGENIC		
SNP_98576_A_190007	NW_004516792.1	scaffold1643	190007	AA	GG	GG	INTERGENIC		
SNP_98577_A_190030	NW_004516792.1	scaffold1643	190030	CC	GG	GG	INTERGENIC		
SNP_98578_A_190075	NW_004516792.1	scaffold1643	190075	GG	AA	AA	INTERGENIC		
SNP_98579_A_190413	NW_004516792.1	scaffold1643	190413	AA	CC	CC	INTERGENIC		
SNP_98580_A_190520	NW_004516792.1	scaffold1643	190520	AA	TT	TT	INTERGENIC		
SNP_98581_A_190537	NW_004516792.1	scaffold1643	190537	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98582_A_190539	NW_004516792.1	scaffold1643	190539	GG	AA	AA	INTERGENIC			
SNP_98583_A_190596	NW_004516792.1	scaffold1643	190596	AA	CC	CC	INTERGENIC			
SNP_98584_A_190655	NW_004516792.1	scaffold1643	190655	AA	GG	GG	INTERGENIC			
SNP_98585_A_190743	NW_004516792.1	scaffold1643	190743	TT	AA	AA	INTERGENIC			
SNP_98586_A_192041	NW_004516792.1	scaffold1643	192041	GG	AA	AA	INTERGENIC			
SNP_98589_A_192975	NW_004516792.1	scaffold1643	192975	CC	TT	TT	INTERGENIC			
SNP_98590_A_192978	NW_004516792.1	scaffold1643	192978	TT	CC	CC	INTERGENIC			
SNP_98591_A_193057	NW_004516792.1	scaffold1643	193057	CC	TT	TT	INTERGENIC			
SNP_98592_A_193066	NW_004516792.1	scaffold1643	193066	GG	AA	AA	INTERGENIC			
SNP_98593_A_193108	NW_004516792.1	scaffold1643	193108	GG	AA	AA	INTERGENIC			
SNP_98594_A_193132	NW_004516792.1	scaffold1643	193132	GG	AA	AA	INTERGENIC			
SNP_98595_A_193256	NW_004516792.1	scaffold1643	193256	AA	GG	GG	INTERGENIC			
SNP_98596_A_193308	NW_004516792.1	scaffold1643	193308	CC	TT	TT	INTERGENIC			
SNP_98597_A_193577	NW_004516792.1	scaffold1643	193577	AA	CC	CC	INTERGENIC			
SNP_98598_A_201063	NW_004516792.1	scaffold1643	201063	GG	AA	AA	INTERGENIC			
SNP_98599_A_201177	NW_004516792.1	scaffold1643	201177	AA	GG	GG	INTERGENIC			
SNP_98600_A_201267	NW_004516792.1	scaffold1643	201267	TT	CC	CC	INTERGENIC			
SNP_98601_A_201277	NW_004516792.1	scaffold1643	201277	TT	CC	CC	INTERGENIC			
SNP_98602_A_201308	NW_004516792.1	scaffold1643	201308	AA	GG	GG	INTERGENIC			
SNP_98603_A_201337	NW_004516792.1	scaffold1643	201337	CC	GG	GG	INTERGENIC			
SNP_98604_A_201340	NW_004516792.1	scaffold1643	201340	CC	TT	TT	INTERGENIC			
SNP_98605_A_201365	NW_004516792.1	scaffold1643	201365	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98606_A_201373	NW_004516792.1	scaffold1643	201373	TT	CC	CC	INTERGENIC			
SNP_98607_A_201378	NW_004516792.1	scaffold1643	201378	TT	CC	CC	INTERGENIC			
SNP_98608_A_201387	NW_004516792.1	scaffold1643	201387	CC	TT	TT	INTERGENIC			
SNP_98609_A_201467	NW_004516792.1	scaffold1643	201467	AA	GG	GG	INTERGENIC			
SNP_98610_A_201482	NW_004516792.1	scaffold1643	201482	GG	CC	CC	INTERGENIC			
SNP_98611_A_201485	NW_004516792.1	scaffold1643	201485	TT	CC	CC	INTERGENIC			
SNP_98612_A_201662	NW_004516792.1	scaffold1643	201662	CC	AA	AA	INTERGENIC			
SNP_98613_A_202551	NW_004516792.1	scaffold1643	202551	AA	GG	GG	INTERGENIC			
SNP_98614_A_204010	NW_004516792.1	scaffold1643	204010	CC	AA	AA	INTERGENIC			
SNP_98615_A_204348	NW_004516792.1	scaffold1643	204348	TT	CC	CC	INTERGENIC			
SNP_98616_A_204401	NW_004516792.1	scaffold1643	204401	CC	TT	TT	INTERGENIC			
SNP_98618_A_206791	NW_004516792.1	scaffold1643	206791	TT	CC	CC	INTERGENIC			
SNP_98619_A_206814	NW_004516792.1	scaffold1643	206814	CC	AA	AA	INTERGENIC			
SNP_98620_A_206836	NW_004516792.1	scaffold1643	206836	AA	TT	TT	INTERGENIC			
SNP_98621_A_206938	NW_004516792.1	scaffold1643	206938	AA	GG	GG	INTERGENIC			
SNP_98622_A_206996	NW_004516792.1	scaffold1643	206996	CC	TT	TT	INTERGENIC			
SNP_98623_A_207175	NW_004516792.1	scaffold1643	207175	CC	GG	GG	INTERGENIC			
SNP_98624_A_207305	NW_004516792.1	scaffold1643	207305	TT	CC	CC	INTERGENIC			
SNP_98625_A_207333	NW_004516792.1	scaffold1643	207333	AA	GG	GG	INTERGENIC			
SNP_98626_A_207397	NW_004516792.1	scaffold1643	207397	TT	AA	AA	INTERGENIC			
SNP_98627_A_207828	NW_004516792.1	scaffold1643	207828	GG	AA	AA	INTERGENIC			
SNP_98628_A_207859	NW_004516792.1	scaffold1643	207859	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98629_A_207940	NW_004516792.1	scaffold1643	207940	CC	AA	AA	INTERGENIC			
SNP_98630_A_207969	NW_004516792.1	scaffold1643	207969	AA	GG	GG	INTERGENIC			
SNP_98632_A_207991	NW_004516792.1	scaffold1643	207991	CC	GG	GG	INTERGENIC			
SNP_98633_A_208010	NW_004516792.1	scaffold1643	208010	GG	AA	AA	INTERGENIC			
SNP_98634_A_208036	NW_004516792.1	scaffold1643	208036	GG	AA	AA	INTERGENIC			
SNP_98635_A_208369	NW_004516792.1	scaffold1643	208369	AA	CC	CC	INTERGENIC			
SNP_98636_A_208403	NW_004516792.1	scaffold1643	208403	AA	TT	TT	INTERGENIC			
SNP_98637_A_208422	NW_004516792.1	scaffold1643	208422	GG	AA	AA	INTERGENIC			
SNP_98638_A_208431	NW_004516792.1	scaffold1643	208431	CC	AA	AA	INTERGENIC			
SNP_98639_A_208435	NW_004516792.1	scaffold1643	208435	AA	CC	CC	INTERGENIC			
SNP_98640_A_208436	NW_004516792.1	scaffold1643	208436	AA	TT	TT	INTERGENIC			
SNP_98641_A_208457	NW_004516792.1	scaffold1643	208457	AA	GG	GG	INTERGENIC			
SNP_98642_A_208470	NW_004516792.1	scaffold1643	208470	AA	TT	TT	INTERGENIC			
SNP_98643_A_209385	NW_004516792.1	scaffold1643	209385	CC	GG	GG	INTERGENIC			
SNP_98644_A_209452	NW_004516792.1	scaffold1643	209452	TT	AA	AA	INTERGENIC			
SNP_98645_A_210161	NW_004516792.1	scaffold1643	210161	TT	AA	AA	INTERGENIC			
SNP_98647_A_210213	NW_004516792.1	scaffold1643	210213	AA	GG	GG	INTERGENIC			
SNP_98648_A_210234	NW_004516792.1	scaffold1643	210234	TT	CC	CC	INTERGENIC			
SNP_98649_A_210242	NW_004516792.1	scaffold1643	210242	TT	AA	AA	INTERGENIC			
SNP_98650_A_210260	NW_004516792.1	scaffold1643	210260	AA	TT	TT	INTERGENIC			
SNP_98651_A_210279	NW_004516792.1	scaffold1643	210279	GG	AA	AA	INTERGENIC			
SNP_98652_A_210309	NW_004516792.1	scaffold1643	210309	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98653_A_210344	NW_004516792.1	scaffold1643	210344	AA	GG	GG	INTERGENIC			
SNP_98654_A_210515	NW_004516792.1	scaffold1643	210515	TT	CC	CC	INTERGENIC			
SNP_98655_A_210516	NW_004516792.1	scaffold1643	210516	GG	TT	TT	INTERGENIC			
SNP_98657_A_210595	NW_004516792.1	scaffold1643	210595	AA	CC	CC	INTERGENIC			
SNP_98658_A_210914	NW_004516792.1	scaffold1643	210914	TT	AA	AA	INTERGENIC			
SNP_98659_A_210976	NW_004516792.1	scaffold1643	210976	TT	AA	AA	INTERGENIC			
SNP_98661_A_211057	NW_004516792.1	scaffold1643	211057	TT	AA	AA	INTERGENIC			
SNP_98663_A_211113	NW_004516792.1	scaffold1643	211113	CC	AA	AA	INTERGENIC			
SNP_98664_A_211176	NW_004516792.1	scaffold1643	211176	TT	CC	CC	INTERGENIC			
SNP_98665_A_211191	NW_004516792.1	scaffold1643	211191	GG	AA	AA	INTERGENIC			
SNP_98666_A_211346	NW_004516792.1	scaffold1643	211346	TT	AA	AA	INTERGENIC			
SNP_98667_A_211354	NW_004516792.1	scaffold1643	211354	CC	AA	AA	INTERGENIC			
SNP_98668_A_211367	NW_004516792.1	scaffold1643	211367	GG	TT	TT	INTERGENIC			
SNP_98669_A_213227	NW_004516792.1	scaffold1643	213227	AA	TT	TT	INTERGENIC			
SNP_98670_A_213915	NW_004516792.1	scaffold1643	213915	GG	CC	CC	INTERGENIC			
SNP_98672_A_214715	NW_004516792.1	scaffold1643	214715	TT	CC	CC	INTERGENIC			
SNP_98673_A_215033	NW_004516792.1	scaffold1643	215033	GG	AA	AA	INTERGENIC			
SNP_98674_A_215158	NW_004516792.1	scaffold1643	215158	GG	AA	AA	INTERGENIC			
SNP_98675_A_215240	NW_004516792.1	scaffold1643	215240	CC	TT	TT	INTERGENIC			
SNP_98676_A_4585	NW_004516793.1	scaffold1644	4585	TT	AA	AA	INTERGENIC			
SNP_98678_A_10075	NW_004516793.1	scaffold1644	10075	GG	AA	AA	INTERGENIC			
SNP_98679_A_10079	NW_004516793.1	scaffold1644	10079	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98680_A_10082	NW_004516793.1	scaffold1644	10082	TT	CC	CC	INTERGENIC			
SNP_98681_A_10092	NW_004516793.1	scaffold1644	10092	TT	CC	CC	INTERGENIC			
SNP_98682_A_10147	NW_004516793.1	scaffold1644	10147	AA	GG	GG	INTERGENIC			
SNP_98683_A_10551	NW_004516793.1	scaffold1644	10551	AA	TT	TT	INTERGENIC			
SNP_98684_A_10554	NW_004516793.1	scaffold1644	10554	CC	TT	TT	INTERGENIC			
SNP_98685_A_17726	NW_004516795.1	scaffold1649	17726	CC	TT	TT	INTERGENIC			
SNP_98686_A_4184	NW_004516797.1	scaffold1651	4184	AA	GG	GG	INTERGENIC			
SNP_98687_A_4305	NW_004516797.1	scaffold1651	4305	GG	AA	AA	INTERGENIC			
SNP_98688_A_4367	NW_004516797.1	scaffold1651	4367	GG	AA	AA	INTERGENIC			
SNP_98689_A_4485	NW_004516797.1	scaffold1651	4485	TT	CC	CC	INTERGENIC			
SNP_98690_A_4665	NW_004516797.1	scaffold1651	4665	TT	CC	CC	INTERGENIC			
SNP_98691_A_4675	NW_004516797.1	scaffold1651	4675	GG	AA	AA	INTERGENIC			
SNP_98692_A_4809	NW_004516797.1	scaffold1651	4809	TT	CC	CC	INTERGENIC			
SNP_98693_A_5085	NW_004516797.1	scaffold1651	5085	TT	GG	GG	INTERGENIC			
SNP_98695_A_5171	NW_004516797.1	scaffold1651	5171	CC	TT	TT	INTERGENIC			
SNP_98696_A_5265	NW_004516797.1	scaffold1651	5265	GG	AA	AA	INTERGENIC			
SNP_98697_A_5441	NW_004516797.1	scaffold1651	5441	TT	CC	CC	INTERGENIC			
SNP_98698_A_5473	NW_004516797.1	scaffold1651	5473	TT	CC	CC	INTERGENIC			
SNP_98699_A_5474	NW_004516797.1	scaffold1651	5474	TT	CC	CC	INTERGENIC			
SNP_98700_A_5662	NW_004516797.1	scaffold1651	5662	TT	CC	CC	INTERGENIC			
SNP_98701_A_5669	NW_004516797.1	scaffold1651	5669	AA	GG	GG	INTERGENIC			
SNP_98702_A_5711	NW_004516797.1	scaffold1651	5711	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98703_A_6032	NW_004516797.1	scaffold1651	6032	TT	CC	CC	INTERGENIC			
SNP_98704_A_6068	NW_004516797.1	scaffold1651	6068	AA	GG	GG	INTERGENIC			
SNP_98705_A_6076	NW_004516797.1	scaffold1651	6076	CC	TT	TT	INTERGENIC			
SNP_98706_A_6108	NW_004516797.1	scaffold1651	6108	TT	CC	CC	INTERGENIC			
SNP_98707_A_6152	NW_004516797.1	scaffold1651	6152	TT	CC	CC	INTERGENIC			
SNP_98708_A_6197	NW_004516797.1	scaffold1651	6197	GG	AA	AA	INTERGENIC			
SNP_98709_A_6223	NW_004516797.1	scaffold1651	6223	TT	CC	CC	INTERGENIC			
SNP_98710_A_6549	NW_004516797.1	scaffold1651	6549	GG	AA	AA	INTERGENIC			
SNP_98711_A_6685	NW_004516797.1	scaffold1651	6685	TT	GG	GG	INTERGENIC			
SNP_98712_A_6848	NW_004516797.1	scaffold1651	6848	CC	TT	TT	INTERGENIC			
SNP_98713_A_7087	NW_004516797.1	scaffold1651	7087	AA	TT	TT	INTERGENIC			
SNP_98714_A_7151	NW_004516797.1	scaffold1651	7151	CC	AA	AA	INTERGENIC			
SNP_98715_A_7212	NW_004516797.1	scaffold1651	7212	AA	GG	GG	INTERGENIC			
SNP_98716_A_7370	NW_004516797.1	scaffold1651	7370	CC	TT	TT	INTERGENIC			
SNP_98717_A_7376	NW_004516797.1	scaffold1651	7376	TT	CC	CC	INTERGENIC			
SNP_98718_A_7440	NW_004516797.1	scaffold1651	7440	GG	TT	TT	INTERGENIC			
SNP_98719_A_7492	NW_004516797.1	scaffold1651	7492	GG	AA	AA	INTERGENIC			
SNP_98720_A_7494	NW_004516797.1	scaffold1651	7494	CC	TT	TT	INTERGENIC			
SNP_98721_A_7558	NW_004516797.1	scaffold1651	7558	AA	GG	GG	INTERGENIC			
SNP_98722_A_7638	NW_004516797.1	scaffold1651	7638	GG	AA	AA	INTERGENIC			
SNP_98723_A_7707	NW_004516797.1	scaffold1651	7707	AA	CC	CC	INTERGENIC			
SNP_98724_A_9019	NW_004516797.1	scaffold1651	9019	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98725_A_9026	NW_004516797.1	scaffold1651	9026	CC	TT	TT	INTERGENIC			
SNP_98726_A_9081	NW_004516797.1	scaffold1651	9081	GG	AA	AA	INTERGENIC			
SNP_98727_A_9085	NW_004516797.1	scaffold1651	9085	GG	TT	TT	INTERGENIC			
SNP_98728_A_9305	NW_004516797.1	scaffold1651	9305	TT	CC	CC	INTERGENIC			
SNP_98729_A_9323	NW_004516797.1	scaffold1651	9323	TT	GG	GG	INTERGENIC			
SNP_98730_A_9331	NW_004516797.1	scaffold1651	9331	GG	TT	TT	INTERGENIC			
SNP_98731_A_9343	NW_004516797.1	scaffold1651	9343	AA	CC	CC	INTERGENIC			
SNP_98732_A_9353	NW_004516797.1	scaffold1651	9353	TT	GG	GG	INTERGENIC			
SNP_98733_A_9452	NW_004516797.1	scaffold1651	9452	GG	TT	TT	INTERGENIC			
SNP_98734_A_9771	NW_004516797.1	scaffold1651	9771	GG	AA	AA	INTERGENIC			
SNP_98735_A_9813	NW_004516797.1	scaffold1651	9813	GG	AA	AA	INTERGENIC			
SNP_98737_A_9986	NW_004516797.1	scaffold1651	9986	CC	TT	TT	INTERGENIC			
SNP_98738_A_10086	NW_004516797.1	scaffold1651	10086	CC	AA	AA	INTERGENIC			
SNP_98739_A_10258	NW_004516797.1	scaffold1651	10258	TT	CC	CC	INTERGENIC			
SNP_98740_A_10314	NW_004516797.1	scaffold1651	10314	AA	GG	GG	INTERGENIC			
SNP_98741_A_10362	NW_004516797.1	scaffold1651	10362	GG	AA	AA	INTERGENIC			
SNP_98742_A_10400	NW_004516797.1	scaffold1651	10400	AA	GG	GG	INTERGENIC			
SNP_98743_A_10429	NW_004516797.1	scaffold1651	10429	CC	TT	TT	INTERGENIC			
SNP_98744_A_10503	NW_004516797.1	scaffold1651	10503	GG	AA	AA	INTERGENIC			
SNP_98745_A_10722	NW_004516797.1	scaffold1651	10722	GG	AA	AA	INTERGENIC			
SNP_98746_A_10836	NW_004516797.1	scaffold1651	10836	GG	AA	AA	INTERGENIC			
SNP_98747_A_10841	NW_004516797.1	scaffold1651	10841	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98748_A_10882	NW_004516797.1	scaffold1651	10882	CC	TT	TT	INTERGENIC			
SNP_98749_A_11014	NW_004516797.1	scaffold1651	11014	AA	TT	TT	INTERGENIC			
SNP_98750_A_11033	NW_004516797.1	scaffold1651	11033	AA	GG	GG	INTERGENIC			
SNP_98751_A_11042	NW_004516797.1	scaffold1651	11042	GG	AA	AA	INTERGENIC			
SNP_98752_A_11047	NW_004516797.1	scaffold1651	11047	GG	AA	AA	INTERGENIC			
SNP_98753_A_11081	NW_004516797.1	scaffold1651	11081	TT	GG	GG	INTERGENIC			
SNP_98754_A_11155	NW_004516797.1	scaffold1651	11155	CC	TT	TT	INTERGENIC			
SNP_98755_A_11219	NW_004516797.1	scaffold1651	11219	CC	TT	TT	INTERGENIC			
SNP_98756_A_11242	NW_004516797.1	scaffold1651	11242	TT	CC	CC	INTERGENIC			
SNP_98757_A_11463	NW_004516797.1	scaffold1651	11463	GG	AA	AA	INTERGENIC			
SNP_98758_A_11486	NW_004516797.1	scaffold1651	11486	TT	CC	CC	INTERGENIC			
SNP_98759_A_11490	NW_004516797.1	scaffold1651	11490	GG	TT	TT	INTERGENIC			
SNP_98761_A_11572	NW_004516797.1	scaffold1651	11572	AA	GG	GG	INTERGENIC			
SNP_98762_A_11638	NW_004516797.1	scaffold1651	11638	AA	GG	GG	INTERGENIC			
SNP_98763_A_11648	NW_004516797.1	scaffold1651	11648	GG	TT	TT	INTERGENIC			
SNP_98764_A_11829	NW_004516797.1	scaffold1651	11829	AA	GG	GG	INTERGENIC			
SNP_98765_A_12084	NW_004516797.1	scaffold1651	12084	CC	TT	TT	INTERGENIC			
SNP_98766_A_12323	NW_004516797.1	scaffold1651	12323	CC	TT	TT	INTERGENIC			
SNP_98767_A_12330	NW_004516797.1	scaffold1651	12330	CC	TT	TT	INTERGENIC			
SNP_98768_A_12337	NW_004516797.1	scaffold1651	12337	AA	GG	GG	INTERGENIC			
SNP_98770_A_13043	NW_004516797.1	scaffold1651	13043	TT	CC	CC	INTERGENIC			
SNP_98771_A_13097	NW_004516797.1	scaffold1651	13097	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98772_A_13161	NW_004516797.1	scaffold1651	13161	CC	TT	TT	INTERGENIC			
SNP_98773_A_13209	NW_004516797.1	scaffold1651	13209	GG	AA	AA	INTERGENIC			
SNP_98775_A_13454	NW_004516797.1	scaffold1651	13454	AA	CC	CC	INTERGENIC			
SNP_98776_A_13462	NW_004516797.1	scaffold1651	13462	CC	TT	TT	INTERGENIC			
SNP_98777_A_13487	NW_004516797.1	scaffold1651	13487	CC	TT	TT	INTERGENIC			
SNP_98779_A_13627	NW_004516797.1	scaffold1651	13627	AA	GG	GG	INTERGENIC			
SNP_98780_A_13644	NW_004516797.1	scaffold1651	13644	CC	AA	AA	INTERGENIC			
SNP_98781_A_13668	NW_004516797.1	scaffold1651	13668	AA	TT	TT	INTERGENIC			
SNP_98782_A_13679	NW_004516797.1	scaffold1651	13679	GG	AA	AA	INTERGENIC			
SNP_98783_A_13694	NW_004516797.1	scaffold1651	13694	AA	GG	GG	INTERGENIC			
SNP_98784_A_13843	NW_004516797.1	scaffold1651	13843	GG	CC	CC	INTERGENIC			
SNP_98785_A_14049	NW_004516797.1	scaffold1651	14049	AA	CC	CC	INTERGENIC			
SNP_98786_A_14177	NW_004516797.1	scaffold1651	14177	GG	TT	TT	INTERGENIC			
SNP_98788_A_14358	NW_004516797.1	scaffold1651	14358	GG	AA	AA	INTERGENIC			
SNP_98789_A_14585	NW_004516797.1	scaffold1651	14585	AA	CC	CC	INTERGENIC			
SNP_98790_A_14639	NW_004516797.1	scaffold1651	14639	CC	AA	AA	INTERGENIC			
SNP_98791_A_14813	NW_004516797.1	scaffold1651	14813	AA	CC	CC	INTERGENIC			
SNP_98792_A_14919	NW_004516797.1	scaffold1651	14919	GG	AA	AA	INTERGENIC			
SNP_98793_A_14967	NW_004516797.1	scaffold1651	14967	TT	CC	CC	INTERGENIC			
SNP_98794_A_15872	NW_004516797.1	scaffold1651	15872	TT	AA	AA	INTERGENIC			
SNP_98795_A_15887	NW_004516797.1	scaffold1651	15887	GG	AA	AA	INTERGENIC			
SNP_98796_A_16101	NW_004516797.1	scaffold1651	16101	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98797_A_16191	NW_004516797.1	scaffold1651	16191	AA	GG	GG	INTERGENIC			
SNP_98800_A_16690	NW_004516797.1	scaffold1651	16690	TT	GG	GG	INTERGENIC			
SNP_98801_A_16784	NW_004516797.1	scaffold1651	16784	AA	GG	GG	INTERGENIC			
SNP_98803_A_16872	NW_004516797.1	scaffold1651	16872	GG	AA	AA	INTERGENIC			
SNP_98805_A_17291	NW_004516797.1	scaffold1651	17291	GG	AA	AA	INTERGENIC			
SNP_98806_A_17314	NW_004516797.1	scaffold1651	17314	CC	GG	GG	INTERGENIC			
SNP_98807_A_17352	NW_004516797.1	scaffold1651	17352	CC	TT	TT	INTERGENIC			
SNP_98808_A_17497	NW_004516797.1	scaffold1651	17497	CC	TT	TT	INTERGENIC			
SNP_98810_A_17739	NW_004516797.1	scaffold1651	17739	GG	AA	AA	INTERGENIC			
SNP_98812_A_18310	NW_004516797.1	scaffold1651	18310	GG	AA	AA	INTERGENIC			
SNP_98813_A_18415	NW_004516797.1	scaffold1651	18415	TT	CC	CC	INTERGENIC			
SNP_98814_A_18477	NW_004516797.1	scaffold1651	18477	CC	TT	TT	INTERGENIC			
SNP_98816_A_18579	NW_004516797.1	scaffold1651	18579	GG	CC	CC	INTERGENIC			
SNP_98817_A_18614	NW_004516797.1	scaffold1651	18614	GG	AA	AA	INTERGENIC			
SNP_98818_A_18754	NW_004516797.1	scaffold1651	18754	TT	CC	CC	INTERGENIC			
SNP_98819_A_18759	NW_004516797.1	scaffold1651	18759	GG	AA	AA	INTERGENIC			
SNP_98820_A_18795	NW_004516797.1	scaffold1651	18795	TT	AA	AA	INTERGENIC			
SNP_98821_A_18796	NW_004516797.1	scaffold1651	18796	GG	AA	AA	INTERGENIC			
SNP_98822_A_18813	NW_004516797.1	scaffold1651	18813	GG	TT	TT	INTERGENIC			
SNP_98824_A_19021	NW_004516797.1	scaffold1651	19021	TT	CC	CC	INTERGENIC			
SNP_98825_A_19817	NW_004516797.1	scaffold1651	19817	AA	TT	TT	INTERGENIC			
SNP_98826_A_19854	NW_004516797.1	scaffold1651	19854	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98827_A_20099	NW_004516797.1	scaffold1651	20099	CC	TT	TT	INTERGENIC			
SNP_98828_A_20104	NW_004516797.1	scaffold1651	20104	AA	TT	TT	INTERGENIC			
SNP_98829_A_20253	NW_004516797.1	scaffold1651	20253	GG	TT	TT	INTERGENIC			
SNP_98830_A_20382	NW_004516797.1	scaffold1651	20382	CC	TT	TT	INTERGENIC			
SNP_98831_A_20709	NW_004516797.1	scaffold1651	20709	AA	GG	GG	INTERGENIC			
SNP_98832_A_22607	NW_004516797.1	scaffold1651	22607	TT	CC	CC	INTERGENIC			
SNP_98833_A_22608	NW_004516797.1	scaffold1651	22608	TT	CC	CC	INTERGENIC			
SNP_98834_A_22686	NW_004516797.1	scaffold1651	22686	GG	TT	TT	INTERGENIC			
SNP_98835_A_22724	NW_004516797.1	scaffold1651	22724	CC	AA	AA	INTERGENIC			
SNP_98837_A_23019	NW_004516797.1	scaffold1651	23019	TT	CC	CC	INTERGENIC			
SNP_98838_A_26872	NW_004516797.1	scaffold1651	26872	CC	TT	TT	INTERGENIC			
SNP_98839_A_26874	NW_004516797.1	scaffold1651	26874	TT	GG	GG	INTERGENIC			
SNP_98840_A_30268	NW_004516797.1	scaffold1651	30268	CC	TT	TT	INTERGENIC			
SNP_98841_A_30471	NW_004516797.1	scaffold1651	30471	GG	AA	AA	INTERGENIC			
SNP_98842_A_30556	NW_004516797.1	scaffold1651	30556	AA	TT	TT	INTERGENIC			
SNP_98843_A_30934	NW_004516797.1	scaffold1651	30934	CC	TT	TT	INTERGENIC			
SNP_98844_A_30991	NW_004516797.1	scaffold1651	30991	TT	AA	AA	INTERGENIC			
SNP_98845_A_31077	NW_004516797.1	scaffold1651	31077	GG	AA	AA	INTERGENIC			
SNP_98846_A_31081	NW_004516797.1	scaffold1651	31081	TT	CC	CC	INTERGENIC			
SNP_98847_A_31123	NW_004516797.1	scaffold1651	31123	CC	TT	TT	INTERGENIC			
SNP_98848_A_31137	NW_004516797.1	scaffold1651	31137	AA	GG	GG	INTERGENIC			
SNP_98849_A_31440	NW_004516797.1	scaffold1651	31440	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98850_A_31441	NW_004516797.1	scaffold1651	31441	CC	TT	TT	INTERGENIC			
SNP_98851_A_31672	NW_004516797.1	scaffold1651	31672	CC	TT	TT	INTERGENIC			
SNP_98852_A_31676	NW_004516797.1	scaffold1651	31676	TT	CC	CC	INTERGENIC			
SNP_98853_A_44516	NW_004516799.1	scaffold1654	44516	AA	GG	GG	INTERGENIC			
SNP_98854_A_44673	NW_004516799.1	scaffold1654	44673	GG	AA	AA	INTERGENIC			
SNP_98855_A_44723	NW_004516799.1	scaffold1654	44723	TT	CC	CC	INTERGENIC			
SNP_98856_A_66291	NW_004516799.1	scaffold1654	66291	TT	CC	CC	INTERGENIC			
SNP_98857_A_74254	NW_004516799.1	scaffold1654	74254	GG	TT	TT	INTERGENIC			
SNP_98858_A_64	NW_004516801.1	scaffold1657	64	CC	TT	TT	INTERGENIC			
SNP_98859_A_65	NW_004516801.1	scaffold1657	65	TT	GG	GG	INTERGENIC			
SNP_98860_A_87	NW_004516801.1	scaffold1657	87	GG	AA	AA	INTERGENIC			
SNP_98861_A_154	NW_004516801.1	scaffold1657	154	CC	TT	TT	INTERGENIC			
SNP_98862_A_169	NW_004516801.1	scaffold1657	169	CC	TT	TT	INTERGENIC			
SNP_98863_A_279	NW_004516801.1	scaffold1657	279	TT	CC	CC	INTERGENIC			
SNP_98864_A_320	NW_004516801.1	scaffold1657	320	AA	GG	GG	INTERGENIC			
SNP_98865_A_324	NW_004516801.1	scaffold1657	324	GG	AA	AA	INTERGENIC			
SNP_98866_A_337	NW_004516801.1	scaffold1657	337	TT	AA	AA	INTERGENIC			
SNP_98867_A_411	NW_004516801.1	scaffold1657	411	GG	CC	CC	INTERGENIC			
SNP_98868_A_460	NW_004516801.1	scaffold1657	460	CC	AA	AA	INTERGENIC			
SNP_98869_A_568	NW_004516801.1	scaffold1657	568	AA	GG	GG	INTERGENIC			
SNP_98870_A_578	NW_004516801.1	scaffold1657	578	GG	TT	TT	INTERGENIC			
SNP_98871_A_660	NW_004516801.1	scaffold1657	660	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98872_A_661	NW_004516801.1	scaffold1657	661	GG	TT	TT	INTERGENIC		
SNP_98873_A_913	NW_004516801.1	scaffold1657	913	TT	CC	CC	INTERGENIC		
SNP_98874_A_1030	NW_004516801.1	scaffold1657	1030	AA	GG	GG	INTERGENIC		
SNP_98875_A_64	NW_004516803.1	scaffold1659	64	AA	TT	TT	INTERGENIC		
SNP_98876_A_99	NW_004516803.1	scaffold1659	99	GG	TT	TT	INTERGENIC		
SNP_98878_A_157	NW_004516803.1	scaffold1659	157	GG	AA	AA	INTERGENIC		
SNP_98879_A_453	NW_004516803.1	scaffold1659	453	TT	AA	AA	INTERGENIC		
SNP_98880_A_565	NW_004516803.1	scaffold1659	565	TT	AA	AA	INTERGENIC		
SNP_98881_A_702	NW_004516803.1	scaffold1659	702	TT	CC	CC	INTERGENIC		
SNP_98882_A_1583	NW_004516803.1	scaffold1659	1583	TT	AA	AA	INTERGENIC		
SNP_98883_A_2088	NW_004516803.1	scaffold1659	2088	GG	AA	AA	INTERGENIC		
SNP_98884_A_2162	NW_004516803.1	scaffold1659	2162	TT	CC	CC	INTERGENIC		
SNP_98885_A_2216	NW_004516803.1	scaffold1659	2216	GG	AA	AA	INTERGENIC		
SNP_98886_A_2279	NW_004516803.1	scaffold1659	2279	CC	TT	TT	INTERGENIC		
SNP_98887_A_2869	NW_004516803.1	scaffold1659	2869	GG	AA	AA	DRR	101498389	Unknown function
SNP_98888_A_2925	NW_004516803.1	scaffold1659	2925	GG	AA	AA	DRR	101498389	Unknown function
SNP_98889_A_3019	NW_004516803.1	scaffold1659	3019	AA	TT	TT	DRR	101498389	Unknown function
SNP_98890_A_3212	NW_004516803.1	scaffold1659	3212	GG	AA	AA	DRR	101498389	Unknown function
SNP_98891_A_3810	NW_004516803.1	scaffold1659	3810	CC	AA	AA	INTRON	101498389	Unknown function
SNP_98892_A_3978	NW_004516803.1	scaffold1659	3978	CC	TT	TT	SYNONYMOUS_CODING	101498389	Unknown function
SNP_98893_A_4080	NW_004516803.1	scaffold1659	4080	GG	AA	AA	NON_SYNONYMOUS_CODING	101498389	Unknown function
SNP_98894_A_4527	NW_004516803.1	scaffold1659	4527	CC	AA	AA	INTRON	101498389	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98895_A_4902	NW_004516803.1	scaffold1659	4902	TT	CC	CC	URR	101498389	Unknown function
SNP_98896_A_4918	NW_004516803.1	scaffold1659	4918	GG	TT	TT	URR	101498389	Unknown function
SNP_98897_A_4997	NW_004516803.1	scaffold1659	4997	TT	CC	CC	URR	101498389	Unknown function
SNP_98898_A_19830	NW_004516803.1	scaffold1659	19830	GG	AA	AA	INTERGENIC		
SNP_98899_A_19940	NW_004516803.1	scaffold1659	19940	AA	GG	GG	INTERGENIC		
SNP_98900_A_20029	NW_004516803.1	scaffold1659	20029	TT	GG	GG	INTERGENIC		
SNP_98901_A_20075	NW_004516803.1	scaffold1659	20075	CC	TT	TT	INTERGENIC		
SNP_98902_A_20186	NW_004516803.1	scaffold1659	20186	TT	CC	CC	INTERGENIC		
SNP_98903_A_20229	NW_004516803.1	scaffold1659	20229	AA	GG	GG	INTERGENIC		
SNP_98904_A_20349	NW_004516803.1	scaffold1659	20349	GG	AA	AA	INTERGENIC		
SNP_98905_A_20366	NW_004516803.1	scaffold1659	20366	AA	TT	TT	INTERGENIC		
SNP_98906_A_20499	NW_004516803.1	scaffold1659	20499	TT	AA	AA	INTERGENIC		
SNP_98907_A_21061	NW_004516803.1	scaffold1659	21061	AA	GG	GG	INTERGENIC		
SNP_98908_A_21117	NW_004516803.1	scaffold1659	21117	GG	AA	AA	INTERGENIC		
SNP_98909_A_21629	NW_004516803.1	scaffold1659	21629	CC	TT	TT	INTERGENIC		
SNP_98910_A_21977	NW_004516803.1	scaffold1659	21977	GG	AA	AA	INTERGENIC		
SNP_98911_A_59548	NW_004516803.1	scaffold1659	59548	TT	AA	AA	INTERGENIC		
SNP_98912_A_81360	NW_004516803.1	scaffold1659	81360	CC	TT	TT	INTERGENIC		
SNP_98913_A_95917	NW_004516803.1	scaffold1659	95917	AA	GG	GG	INTERGENIC		
SNP_98914_A_95926	NW_004516803.1	scaffold1659	95926	TT	GG	GG	INTERGENIC		
SNP_98915_A_95977	NW_004516803.1	scaffold1659	95977	AA	GG	GG	INTERGENIC		
SNP_98916_A_96017	NW_004516803.1	scaffold1659	96017	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_98918_A_104997	NW_004516803.1	scaffold1659	104997	AA	GG	GG	INTERGENIC		
SNP_98919_A_105001	NW_004516803.1	scaffold1659	105001	CC	AA	AA	INTERGENIC		
SNP_98920_A_123381	NW_004516803.1	scaffold1659	123381	CC	TT	TT	INTERGENIC		
SNP_98921_A_135811	NW_004516803.1	scaffold1659	135811	GG	AA	AA	INTERGENIC		
SNP_98922_A_135817	NW_004516803.1	scaffold1659	135817	CC	TT	TT	INTERGENIC		
SNP_98923_A_195474	NW_004516803.1	scaffold1659	195474	AA	GG	GG	INTERGENIC		
SNP_98924_A_217066	NW_004516803.1	scaffold1659	217066	TT	AA	AA	URR	101499673	uncharacterized LOC101499673
SNP_98925_A_217144	NW_004516803.1	scaffold1659	217144	AA	CC	CC	URR	101499673	uncharacterized LOC101499673
SNP_98926_A_268691	NW_004516803.1	scaffold1659	268691	AA	GG	GG	INTERGENIC		
SNP_98927_A_269080	NW_004516803.1	scaffold1659	269080	CC	GG	GG	INTERGENIC		
SNP_98928_A_269101	NW_004516803.1	scaffold1659	269101	CC	GG	GG	INTERGENIC		
SNP_98930_A_282444	NW_004516803.1	scaffold1659	282444	AA	GG	GG	INTERGENIC		
SNP_98932_A_283386	NW_004516803.1	scaffold1659	283386	TT	AA	AA	INTERGENIC		
SNP_98933_A_287486	NW_004516803.1	scaffold1659	287486	GG	TT	TT	INTERGENIC		
SNP_98934_A_309933	NW_004516803.1	scaffold1659	309933	AA	TT	TT	INTERGENIC		
SNP_98935_A_309939	NW_004516803.1	scaffold1659	309939	TT	GG	GG	INTERGENIC		
SNP_98936_A_342216	NW_004516803.1	scaffold1659	342216	AA	GG	GG	INTERGENIC		
SNP_98937_A_359178	NW_004516803.1	scaffold1659	359178	AA	GG	GG	INTERGENIC		
SNP_98938_A_364314	NW_004516803.1	scaffold1659	364314	CC	TT	TT	INTERGENIC		
SNP_98939_A_364329	NW_004516803.1	scaffold1659	364329	TT	CC	CC	INTERGENIC		
SNP_98940_A_385381	NW_004516803.1	scaffold1659	385381	AA	GG	GG	INTERGENIC		
SNP_98941_A_385421	NW_004516803.1	scaffold1659	385421	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98942_A_422796	NW_004516803.1	scaffold1659	422796	GG	AA	AA	INTERGENIC			
SNP_98943_A_422822	NW_004516803.1	scaffold1659	422822	TT	GG	GG	INTERGENIC			
SNP_98944_A_422837	NW_004516803.1	scaffold1659	422837	TT	GG	GG	INTERGENIC			
SNP_98945_A_424204	NW_004516803.1	scaffold1659	424204	CC	TT	TT	INTERGENIC			
SNP_98946_A_424250	NW_004516803.1	scaffold1659	424250	CC	TT	TT	INTERGENIC			
SNP_98947_A_430193	NW_004516803.1	scaffold1659	430193	TT	AA	AA	INTERGENIC			
SNP_98948_A_430466	NW_004516803.1	scaffold1659	430466	AA	GG	GG	INTERGENIC			
SNP_98949_A_430470	NW_004516803.1	scaffold1659	430470	AA	GG	GG	INTERGENIC			
SNP_98950_A_430485	NW_004516803.1	scaffold1659	430485	AA	CC	CC	INTERGENIC			
SNP_98951_A_430490	NW_004516803.1	scaffold1659	430490	AA	GG	GG	INTERGENIC			
SNP_98952_A_430513	NW_004516803.1	scaffold1659	430513	GG	CC	CC	INTERGENIC			
SNP_98953_A_466160	NW_004516803.1	scaffold1659	466160	GG	AA	AA	INTERGENIC			
SNP_98954_A_466910	NW_004516803.1	scaffold1659	466910	TT	CC	CC	INTERGENIC			
SNP_98955_A_468162	NW_004516803.1	scaffold1659	468162	AA	GG	GG	INTERGENIC			
SNP_98956_A_468543	NW_004516803.1	scaffold1659	468543	TT	CC	CC	INTERGENIC			
SNP_98957_A_10507	NW_004516805.1	scaffold1661	10507	AA	CC	CC	INTERGENIC			
SNP_98958_A_12075	NW_004516805.1	scaffold1661	12075	TT	CC	CC	INTERGENIC			
SNP_98959_A_12242	NW_004516805.1	scaffold1661	12242	CC	AA	AA	INTERGENIC			
SNP_98960_A_19781	NW_004516805.1	scaffold1661	19781	CC	AA	AA	INTERGENIC			
SNP_98961_A_34653	NW_004516805.1	scaffold1661	34653	GG	TT	TT	INTERGENIC			
SNP_98962_A_34661	NW_004516805.1	scaffold1661	34661	AA	CC	CC	INTERGENIC			
SNP_98963_A_38580	NW_004516805.1	scaffold1661	38580	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98964_A_53917	NW_004516805.1	scaffold1661	53917	AA	GG	GG	INTERGENIC			
SNP_98965_A_61758	NW_004516805.1	scaffold1661	61758	GG	TT	TT	INTERGENIC			
SNP_98967_A_89688	NW_004516805.1	scaffold1661	89688	GG	AA	AA	INTERGENIC			
SNP_98968_A_89919	NW_004516805.1	scaffold1661	89919	AA	GG	GG	INTERGENIC			
SNP_98970_A_112826	NW_004516805.1	scaffold1661	112826	AA	GG	GG	INTERGENIC			
SNP_98971_A_554	NW_004516806.1	scaffold1663	554	TT	AA	AA	INTERGENIC			
SNP_98972_A_604	NW_004516806.1	scaffold1663	604	TT	AA	AA	INTERGENIC			
SNP_98974_A_34145	NW_004516807.1	scaffold1664	34145	CC	TT	TT	INTERGENIC			
SNP_98975_A_37545	NW_004516807.1	scaffold1664	37545	TT	CC	CC	INTERGENIC			
SNP_98976_A_48589	NW_004516807.1	scaffold1664	48589	AA	TT	TT	INTERGENIC			
SNP_98978_A_94797	NW_004516807.1	scaffold1664	94797	AA	GG	GG	INTERGENIC			
SNP_98979_A_94979	NW_004516807.1	scaffold1664	94979	AA	GG	GG	INTERGENIC			
SNP_98980_A_191347	NW_004516807.1	scaffold1664	191347	AA	GG	GG	INTERGENIC			
SNP_98981_A_2617	NW_004516810.1	scaffold1673	2617	AA	GG	GG	INTERGENIC			
SNP_98982_A_64	NW_004516811.1	scaffold1674	64	TT	CC	CC	INTERGENIC			
SNP_98983_A_65	NW_004516811.1	scaffold1674	65	AA	GG	GG	INTERGENIC			
SNP_98984_A_405	NW_004516811.1	scaffold1674	405	CC	TT	TT	INTERGENIC			
SNP_98985_A_511	NW_004516811.1	scaffold1674	511	GG	TT	TT	INTERGENIC			
SNP_98987_A_504	NW_004516812.1	scaffold1675	504	AA	GG	GG	INTERGENIC			
SNP_98988_A_895	NW_004516812.1	scaffold1675	895	CC	GG	GG	INTERGENIC			
SNP_98989_A_1264	NW_004516812.1	scaffold1675	1264	AA	GG	GG	INTERGENIC			
SNP_98990_A_1309	NW_004516812.1	scaffold1675	1309	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_98991_A_604	NW_004516814.1	scaffold1679	604	AA	GG	GG	INTERGENIC			
SNP_98993_A_15886	NW_004516815.1	scaffold1680	15886	AA	TT	TT	INTERGENIC			
SNP_98994_A_16312	NW_004516815.1	scaffold1680	16312	CC	GG	GG	INTERGENIC			
SNP_98995_A_21212	NW_004516815.1	scaffold1680	21212	TT	GG	GG	INTERGENIC			
SNP_98996_A_294	NW_004516816.1	scaffold1681	294	TT	CC	CC	INTERGENIC			
SNP_98997_A_402	NW_004516816.1	scaffold1681	402	AA	TT	TT	INTERGENIC			
SNP_98998_A_450	NW_004516816.1	scaffold1681	450	GG	TT	TT	INTERGENIC			
SNP_99000_A_1160	NW_004516816.1	scaffold1681	1160	GG	TT	TT	INTERGENIC			
SNP_99001_A_1335	NW_004516816.1	scaffold1681	1335	AA	GG	GG	INTERGENIC			
SNP_99002_A_1364	NW_004516816.1	scaffold1681	1364	TT	AA	AA	INTERGENIC			
SNP_99003_A_1421	NW_004516816.1	scaffold1681	1421	AA	CC	CC	INTERGENIC			
SNP_99004_A_1935	NW_004516816.1	scaffold1681	1935	GG	TT	TT	INTERGENIC			
SNP_99005_A_2513	NW_004516816.1	scaffold1681	2513	GG	AA	AA	INTERGENIC			
SNP_99006_A_3608	NW_004516816.1	scaffold1681	3608	AA	TT	TT	INTERGENIC			
SNP_99007_A_3911	NW_004516816.1	scaffold1681	3911	AA	TT	TT	INTERGENIC			
SNP_99008_A_3944	NW_004516816.1	scaffold1681	3944	TT	AA	AA	INTERGENIC			
SNP_99009_A_5949	NW_004516816.1	scaffold1681	5949	TT	CC	CC	INTERGENIC			
SNP_99010_A_6544	NW_004516816.1	scaffold1681	6544	CC	TT	TT	INTERGENIC			
SNP_99011_A_6614	NW_004516816.1	scaffold1681	6614	TT	GG	GG	INTERGENIC			
SNP_99012_A_6634	NW_004516816.1	scaffold1681	6634	AA	TT	TT	INTERGENIC			
SNP_99013_A_6714	NW_004516816.1	scaffold1681	6714	AA	GG	GG	INTERGENIC			
SNP_99014_A_6722	NW_004516816.1	scaffold1681	6722	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99015_A_6838	NW_004516816.1	scaffold1681	6838	GG	AA	AA	INTERGENIC			
SNP_99016_A_6864	NW_004516816.1	scaffold1681	6864	CC	GG	GG	INTERGENIC			
SNP_99017_A_6904	NW_004516816.1	scaffold1681	6904	CC	AA	AA	INTERGENIC			
SNP_99018_A_7147	NW_004516816.1	scaffold1681	7147	AA	GG	GG	INTERGENIC			
SNP_99020_A_16532	NW_004516817.1	scaffold1682	16532	CC	TT	TT	INTERGENIC			
SNP_99022_A_6135	NW_004516819.1	scaffold1684	6135	AA	GG	GG	INTERGENIC			
SNP_99023_A_6391	NW_004516819.1	scaffold1684	6391	GG	AA	AA	INTERGENIC			
SNP_99024_A_17096	NW_004516819.1	scaffold1684	17096	TT	CC	CC	INTERGENIC			
SNP_99025_A_17101	NW_004516819.1	scaffold1684	17101	TT	CC	CC	INTERGENIC			
SNP_99027_A_17127	NW_004516819.1	scaffold1684	17127	AA	CC	CC	INTERGENIC			
SNP_99028_A_17169	NW_004516819.1	scaffold1684	17169	AA	TT	TT	INTERGENIC			
SNP_99029_A_17212	NW_004516819.1	scaffold1684	17212	CC	TT	TT	INTERGENIC			
SNP_99030_A_17215	NW_004516819.1	scaffold1684	17215	CC	GG	GG	INTERGENIC			
SNP_99031_A_22957	NW_004516819.1	scaffold1684	22957	TT	GG	GG	INTERGENIC			
SNP_99032_A_23002	NW_004516819.1	scaffold1684	23002	TT	GG	GG	INTERGENIC			
SNP_99033_A_23035	NW_004516819.1	scaffold1684	23035	GG	AA	AA	INTERGENIC			
SNP_99034_A_23057	NW_004516819.1	scaffold1684	23057	AA	GG	GG	INTERGENIC			
SNP_99035_A_24226	NW_004516819.1	scaffold1684	24226	CC	GG	GG	INTERGENIC			
SNP_99036_A_24642	NW_004516819.1	scaffold1684	24642	TT	AA	AA	INTERGENIC			
SNP_99037_A_26738	NW_004516819.1	scaffold1684	26738	AA	GG	GG	INTERGENIC			
SNP_99038_A_28471	NW_004516819.1	scaffold1684	28471	CC	TT	TT	INTERGENIC			
SNP_99039_A_28632	NW_004516819.1	scaffold1684	28632	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99040_A_28940	NW_004516819.1	scaffold1684	28940	GG	CC	CC	INTERGENIC			
SNP_99041_A_28968	NW_004516819.1	scaffold1684	28968	GG	AA	AA	INTERGENIC			
SNP_99042_A_28975	NW_004516819.1	scaffold1684	28975	TT	CC	CC	INTERGENIC			
SNP_99043_A_28989	NW_004516819.1	scaffold1684	28989	CC	TT	TT	INTERGENIC			
SNP_99044_A_29014	NW_004516819.1	scaffold1684	29014	CC	TT	TT	INTERGENIC			
SNP_99045_A_29037	NW_004516819.1	scaffold1684	29037	AA	TT	TT	INTERGENIC			
SNP_99046_A_29071	NW_004516819.1	scaffold1684	29071	AA	TT	TT	INTERGENIC			
SNP_99047_A_29089	NW_004516819.1	scaffold1684	29089	GG	CC	CC	INTERGENIC			
SNP_99048_A_29091	NW_004516819.1	scaffold1684	29091	GG	TT	TT	INTERGENIC			
SNP_99049_A_29122	NW_004516819.1	scaffold1684	29122	CC	TT	TT	INTERGENIC			
SNP_99050_A_29200	NW_004516819.1	scaffold1684	29200	TT	AA	AA	INTERGENIC			
SNP_99051_A_29392	NW_004516819.1	scaffold1684	29392	TT	AA	AA	INTERGENIC			
SNP_99052_A_29440	NW_004516819.1	scaffold1684	29440	AA	TT	TT	INTERGENIC			
SNP_99053_A_29480	NW_004516819.1	scaffold1684	29480	TT	CC	CC	INTERGENIC			
SNP_99054_A_29494	NW_004516819.1	scaffold1684	29494	AA	TT	TT	INTERGENIC			
SNP_99055_A_29533	NW_004516819.1	scaffold1684	29533	TT	CC	CC	INTERGENIC			
SNP_99056_A_29552	NW_004516819.1	scaffold1684	29552	AA	TT	TT	INTERGENIC			
SNP_99057_A_29563	NW_004516819.1	scaffold1684	29563	GG	CC	CC	INTERGENIC			
SNP_99058_A_29637	NW_004516819.1	scaffold1684	29637	AA	CC	CC	INTERGENIC			
SNP_99059_A_29673	NW_004516819.1	scaffold1684	29673	GG	AA	AA	INTERGENIC			
SNP_99060_A_29692	NW_004516819.1	scaffold1684	29692	TT	AA	AA	INTERGENIC			
SNP_99061_A_29726	NW_004516819.1	scaffold1684	29726	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99062_A_29742	NW_004516819.1	scaffold1684	29742	CC	TT	TT	INTERGENIC			
SNP_99063_A_40850	NW_004516819.1	scaffold1684	40850	GG	TT	TT	INTERGENIC			
SNP_99064_A_44572	NW_004516819.1	scaffold1684	44572	CC	TT	TT	INTERGENIC			
SNP_99065_A_44987	NW_004516819.1	scaffold1684	44987	TT	CC	CC	INTERGENIC			
SNP_99066_A_53287	NW_004516819.1	scaffold1684	53287	GG	AA	AA	INTERGENIC			
SNP_99067_A_60162	NW_004516819.1	scaffold1684	60162	TT	GG	GG	INTERGENIC			
SNP_99068_A_62694	NW_004516819.1	scaffold1684	62694	CC	TT	TT	INTERGENIC			
SNP_99069_A_62991	NW_004516819.1	scaffold1684	62991	AA	GG	GG	INTERGENIC			
SNP_99070_A_63107	NW_004516819.1	scaffold1684	63107	CC	TT	TT	INTERGENIC			
SNP_99072_A_70877	NW_004516819.1	scaffold1684	70877	GG	AA	AA	INTERGENIC			
SNP_99073_A_71059	NW_004516819.1	scaffold1684	71059	CC	AA	AA	INTERGENIC			
SNP_99074_A_71276	NW_004516819.1	scaffold1684	71276	AA	GG	GG	INTERGENIC			
SNP_99075_A_71460	NW_004516819.1	scaffold1684	71460	AA	TT	TT	INTERGENIC			
SNP_99076_A_15717	NW_004516820.1	scaffold1685	15717	TT	AA	AA	DRR	101503389	Unknown function	
SNP_99077_A_32843	NW_004516820.1	scaffold1685	32843	GG	AA	AA	INTERGENIC			
SNP_99078_A_33247	NW_004516820.1	scaffold1685	33247	AA	CC	CC	INTERGENIC			
SNP_99079_A_33394	NW_004516820.1	scaffold1685	33394	TT	CC	CC	INTERGENIC			
SNP_99080_A_53481	NW_004516820.1	scaffold1685	53481	CC	TT	TT	INTERGENIC			
SNP_99081_A_53511	NW_004516820.1	scaffold1685	53511	TT	GG	GG	INTERGENIC			
SNP_99082_A_53519	NW_004516820.1	scaffold1685	53519	GG	AA	AA	INTERGENIC			
SNP_99083_A_59050	NW_004516820.1	scaffold1685	59050	TT	CC	CC	INTERGENIC			
SNP_99084_A_64716	NW_004516820.1	scaffold1685	64716	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99085_A_64750	NW_004516820.1	scaffold1685	64750	CC	TT	TT	INTERGENIC			
SNP_99086_A_64797	NW_004516820.1	scaffold1685	64797	GG	CC	CC	INTERGENIC			
SNP_99087_A_65150	NW_004516820.1	scaffold1685	65150	GG	AA	AA	INTERGENIC			
SNP_99088_A_77026	NW_004516820.1	scaffold1685	77026	AA	GG	GG	INTERGENIC			
SNP_99089_A_77045	NW_004516820.1	scaffold1685	77045	GG	CC	CC	INTERGENIC			
SNP_99091_A_77056	NW_004516820.1	scaffold1685	77056	AA	GG	GG	INTERGENIC			
SNP_99092_A_77067	NW_004516820.1	scaffold1685	77067	CC	TT	TT	INTERGENIC			
SNP_99093_A_83166	NW_004516820.1	scaffold1685	83166	TT	CC	CC	INTERGENIC			
SNP_99094_A_83235	NW_004516820.1	scaffold1685	83235	AA	CC	CC	INTERGENIC			
SNP_99095_A_83438	NW_004516820.1	scaffold1685	83438	TT	CC	CC	INTERGENIC			
SNP_99096_A_88573	NW_004516820.1	scaffold1685	88573	TT	CC	CC	INTERGENIC			
SNP_99097_A_88825	NW_004516820.1	scaffold1685	88825	AA	TT	TT	INTERGENIC			
SNP_99098_A_88828	NW_004516820.1	scaffold1685	88828	TT	CC	CC	INTERGENIC			
SNP_99099_A_88885	NW_004516820.1	scaffold1685	88885	AA	CC	CC	INTERGENIC			
SNP_99100_A_128047	NW_004516820.1	scaffold1685	128047	TT	AA	AA	INTERGENIC			
SNP_99101_A_128312	NW_004516820.1	scaffold1685	128312	GG	TT	TT	INTERGENIC			
SNP_99102_A_136209	NW_004516820.1	scaffold1685	136209	AA	GG	GG	INTERGENIC			
SNP_99103_A_136218	NW_004516820.1	scaffold1685	136218	CC	GG	GG	INTERGENIC			
SNP_99104_A_136266	NW_004516820.1	scaffold1685	136266	GG	AA	AA	INTERGENIC			
SNP_99105_A_80310	NW_004516822.1	scaffold1687	80310	AA	GG	GG	INTERGENIC			
SNP_99106_A_80637	NW_004516822.1	scaffold1687	80637	TT	AA	AA	INTERGENIC			
SNP_99107_A_85085	NW_004516822.1	scaffold1687	85085	AA	GG	GG	URR	101503723	non-specific lipid-transfer protein 1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99108_A_85088	NW_004516822.1	scaffold1687	85088	AA	GG	GG	URR	101503723	non-specific lipid-transfer protein 1-like
SNP_99109_A_144481	NW_004516822.1	scaffold1687	144481	CC	TT	TT	INTERGENIC		
SNP_99110_A_144609	NW_004516822.1	scaffold1687	144609	GG	AA	AA	INTERGENIC		
SNP_99111_A_144623	NW_004516822.1	scaffold1687	144623	TT	GG	GG	INTERGENIC		
SNP_99112_A_144636	NW_004516822.1	scaffold1687	144636	AA	GG	GG	INTERGENIC		
SNP_99113_A_144637	NW_004516822.1	scaffold1687	144637	GG	AA	AA	INTERGENIC		
SNP_99114_A_144662	NW_004516822.1	scaffold1687	144662	CC	AA	AA	INTERGENIC		
SNP_99115_A_144667	NW_004516822.1	scaffold1687	144667	CC	GG	GG	INTERGENIC		
SNP_99117_A_150652	NW_004516822.1	scaffold1687	150652	GG	AA	AA	INTERGENIC		
SNP_99119_A_180732	NW_004516822.1	scaffold1687	180732	TT	CC	CC	INTERGENIC		
SNP_99120_A_189466	NW_004516822.1	scaffold1687	189466	TT	CC	CC	INTERGENIC		
SNP_99121_A_192103	NW_004516822.1	scaffold1687	192103	GG	AA	AA	INTERGENIC		
SNP_99122_A_192945	NW_004516822.1	scaffold1687	192945	GG	AA	AA	INTERGENIC		
SNP_99123_A_224163	NW_004516822.1	scaffold1687	224163	TT	CC	CC	INTERGENIC		
SNP_99125_A_224512	NW_004516822.1	scaffold1687	224512	TT	CC	CC	INTERGENIC		
SNP_99126_A_2378	NW_004516823.1	scaffold1688	2378	TT	CC	CC	INTERGENIC		
SNP_99127_A_2423	NW_004516823.1	scaffold1688	2423	AA	GG	GG	INTERGENIC		
SNP_99128_A_2431	NW_004516823.1	scaffold1688	2431	TT	CC	CC	INTERGENIC		
SNP_99129_A_2432	NW_004516823.1	scaffold1688	2432	CC	GG	GG	INTERGENIC		
SNP_99130_A_1821	NW_004516824.1	scaffold1689	1821	AA	CC	CC	INTERGENIC		
SNP_99131_A_2363	NW_004516829.1	scaffold1695	2363	TT	CC	CC	INTERGENIC		
SNP_99132_A_2727	NW_004516829.1	scaffold1695	2727	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99133_A_2744	NW_004516829.1	scaffold1695	2744	CC	TT	TT	INTERGENIC			
SNP_99134_A_6193	NW_004516829.1	scaffold1695	6193	GG	AA	AA	INTERGENIC			
SNP_99135_A_470	NW_004516830.1	scaffold1696	470	TT	AA	AA	INTERGENIC			
SNP_99136_A_3708	NW_004516830.1	scaffold1696	3708	TT	GG	GG	INTERGENIC			
SNP_99137_A_3710	NW_004516830.1	scaffold1696	3710	TT	CC	CC	INTERGENIC			
SNP_99138_A_4137	NW_004516830.1	scaffold1696	4137	CC	TT	TT	INTERGENIC			
SNP_99140_A_4571	NW_004516830.1	scaffold1696	4571	TT	CC	CC	INTERGENIC			
SNP_99141_A_4637	NW_004516830.1	scaffold1696	4637	AA	GG	GG	INTERGENIC			
SNP_99142_A_4875	NW_004516830.1	scaffold1696	4875	TT	CC	CC	INTERGENIC			
SNP_99143_A_4930	NW_004516830.1	scaffold1696	4930	CC	GG	GG	INTERGENIC			
SNP_99144_A_4948	NW_004516830.1	scaffold1696	4948	CC	TT	TT	INTERGENIC			
SNP_99145_A_5007	NW_004516830.1	scaffold1696	5007	CC	TT	TT	INTERGENIC			
SNP_99146_A_5008	NW_004516830.1	scaffold1696	5008	GG	CC	CC	INTERGENIC			
SNP_99147_A_5088	NW_004516830.1	scaffold1696	5088	CC	TT	TT	INTERGENIC			
SNP_99148_A_5104	NW_004516830.1	scaffold1696	5104	GG	AA	AA	INTERGENIC			
SNP_99149_A_5134	NW_004516830.1	scaffold1696	5134	TT	AA	AA	INTERGENIC			
SNP_99150_A_5198	NW_004516830.1	scaffold1696	5198	GG	AA	AA	INTERGENIC			
SNP_99151_A_5308	NW_004516830.1	scaffold1696	5308	TT	GG	GG	INTERGENIC			
SNP_99152_A_5348	NW_004516830.1	scaffold1696	5348	CC	AA	AA	INTERGENIC			
SNP_99154_A_5448	NW_004516830.1	scaffold1696	5448	AA	GG	GG	INTERGENIC			
SNP_99155_A_5532	NW_004516830.1	scaffold1696	5532	CC	AA	AA	INTERGENIC			
SNP_99156_A_6775	NW_004516830.1	scaffold1696	6775	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99157_A_6786	NW_004516830.1	scaffold1696	6786	GG	AA	AA	INTERGENIC			
SNP_99158_A_7997	NW_004516830.1	scaffold1696	7997	CC	TT	TT	INTERGENIC			
SNP_99159_A_8230	NW_004516830.1	scaffold1696	8230	AA	CC	CC	INTERGENIC			
SNP_99160_A_8369	NW_004516830.1	scaffold1696	8369	CC	AA	AA	INTERGENIC			
SNP_99161_A_8383	NW_004516830.1	scaffold1696	8383	CC	TT	TT	INTERGENIC			
SNP_99162_A_10695	NW_004516830.1	scaffold1696	10695	TT	AA	AA	INTERGENIC			
SNP_99163_A_12510	NW_004516830.1	scaffold1696	12510	TT	CC	CC	INTERGENIC			
SNP_99164_A_12572	NW_004516830.1	scaffold1696	12572	CC	TT	TT	INTERGENIC			
SNP_99165_A_12584	NW_004516830.1	scaffold1696	12584	CC	TT	TT	INTERGENIC			
SNP_99166_A_12704	NW_004516830.1	scaffold1696	12704	AA	GG	GG	INTERGENIC			
SNP_99167_A_12754	NW_004516830.1	scaffold1696	12754	TT	CC	CC	INTERGENIC			
SNP_99168_A_12853	NW_004516830.1	scaffold1696	12853	AA	GG	GG	INTERGENIC			
SNP_99169_A_12901	NW_004516830.1	scaffold1696	12901	CC	AA	AA	INTERGENIC			
SNP_99170_A_12946	NW_004516830.1	scaffold1696	12946	GG	TT	TT	INTERGENIC			
SNP_99171_A_12951	NW_004516830.1	scaffold1696	12951	CC	AA	AA	INTERGENIC			
SNP_99172_A_12956	NW_004516830.1	scaffold1696	12956	TT	CC	CC	INTERGENIC			
SNP_99173_A_12957	NW_004516830.1	scaffold1696	12957	GG	AA	AA	INTERGENIC			
SNP_99174_A_13432	NW_004516830.1	scaffold1696	13432	TT	CC	CC	INTERGENIC			
SNP_99175_A_15979	NW_004516830.1	scaffold1696	15979	TT	CC	CC	INTERGENIC			
SNP_99176_A_16022	NW_004516830.1	scaffold1696	16022	TT	GG	GG	INTERGENIC			
SNP_99177_A_16104	NW_004516830.1	scaffold1696	16104	AA	CC	CC	INTERGENIC			
SNP_99178_A_16268	NW_004516830.1	scaffold1696	16268	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99179_A_16362	NW_004516830.1	scaffold1696	16362	CC	AA	AA	INTERGENIC			
SNP_99180_A_16431	NW_004516830.1	scaffold1696	16431	GG	AA	AA	INTERGENIC			
SNP_99181_A_20255	NW_004516830.1	scaffold1696	20255	TT	CC	CC	INTERGENIC			
SNP_99182_A_20420	NW_004516830.1	scaffold1696	20420	AA	TT	TT	INTERGENIC			
SNP_99183_A_20465	NW_004516830.1	scaffold1696	20465	CC	TT	TT	INTERGENIC			
SNP_99184_A_20483	NW_004516830.1	scaffold1696	20483	AA	GG	GG	INTERGENIC			
SNP_99185_A_20494	NW_004516830.1	scaffold1696	20494	CC	AA	AA	INTERGENIC			
SNP_99186_A_20499	NW_004516830.1	scaffold1696	20499	AA	CC	CC	INTERGENIC			
SNP_99187_A_20758	NW_004516830.1	scaffold1696	20758	CC	AA	AA	INTERGENIC			
SNP_99188_A_20899	NW_004516830.1	scaffold1696	20899	CC	TT	TT	INTERGENIC			
SNP_99189_A_21252	NW_004516830.1	scaffold1696	21252	GG	TT	TT	INTERGENIC			
SNP_99190_A_21270	NW_004516830.1	scaffold1696	21270	AA	GG	GG	INTERGENIC			
SNP_99191_A_21318	NW_004516830.1	scaffold1696	21318	TT	CC	CC	INTERGENIC			
SNP_99192_A_21357	NW_004516830.1	scaffold1696	21357	AA	TT	TT	INTERGENIC			
SNP_99193_A_21365	NW_004516830.1	scaffold1696	21365	AA	GG	GG	INTERGENIC			
SNP_99194_A_21449	NW_004516830.1	scaffold1696	21449	TT	AA	AA	INTERGENIC			
SNP_99196_A_21486	NW_004516830.1	scaffold1696	21486	GG	AA	AA	INTERGENIC			
SNP_99197_A_21582	NW_004516830.1	scaffold1696	21582	GG	AA	AA	INTERGENIC			
SNP_99198_A_21614	NW_004516830.1	scaffold1696	21614	TT	CC	CC	INTERGENIC			
SNP_99199_A_21648	NW_004516830.1	scaffold1696	21648	AA	TT	TT	INTERGENIC			
SNP_99201_A_21677	NW_004516830.1	scaffold1696	21677	CC	TT	TT	INTERGENIC			
SNP_99202_A_22855	NW_004516830.1	scaffold1696	22855	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99203_A_22924	NW_004516830.1	scaffold1696	22924	AA	GG	GG	INTERGENIC			
SNP_99204_A_23124	NW_004516830.1	scaffold1696	23124	GG	TT	TT	INTERGENIC			
SNP_99205_A_23179	NW_004516830.1	scaffold1696	23179	CC	TT	TT	INTERGENIC			
SNP_99206_A_450	NW_004516832.1	scaffold1699	450	AA	TT	TT	INTERGENIC			
SNP_99207_A_456	NW_004516832.1	scaffold1699	456	GG	AA	AA	INTERGENIC			
SNP_99208_A_1066	NW_004516832.1	scaffold1699	1066	AA	CC	CC	INTERGENIC			
SNP_99209_A_1167	NW_004516832.1	scaffold1699	1167	AA	TT	TT	INTERGENIC			
SNP_99210_A_18649	NW_004516832.1	scaffold1699	18649	CC	AA	AA	INTERGENIC			
SNP_99211_A_26720	NW_004516833.1	scaffold1701	26720	AA	GG	GG	INTERGENIC			
SNP_99212_A_26947	NW_004516833.1	scaffold1701	26947	TT	GG	GG	INTERGENIC			
SNP_99214_A_26984	NW_004516833.1	scaffold1701	26984	AA	GG	GG	INTERGENIC			
SNP_99215_A_27023	NW_004516833.1	scaffold1701	27023	CC	AA	AA	INTERGENIC			
SNP_99216_A_27027	NW_004516833.1	scaffold1701	27027	CC	GG	GG	INTERGENIC			
SNP_99217_A_27053	NW_004516833.1	scaffold1701	27053	TT	CC	CC	INTERGENIC			
SNP_99218_A_37626	NW_004516833.1	scaffold1701	37626	AA	GG	GG	INTERGENIC			
SNP_99219_A_37779	NW_004516833.1	scaffold1701	37779	GG	TT	TT	INTERGENIC			
SNP_99220_A_40154	NW_004516833.1	scaffold1701	40154	TT	GG	GG	INTERGENIC			
SNP_99221_A_40176	NW_004516833.1	scaffold1701	40176	TT	CC	CC	INTERGENIC			
SNP_99222_A_54190	NW_004516833.1	scaffold1701	54190	GG	CC	CC	INTERGENIC			
SNP_99223_A_54202	NW_004516833.1	scaffold1701	54202	AA	TT	TT	INTERGENIC			
SNP_99224_A_54410	NW_004516833.1	scaffold1701	54410	TT	CC	CC	INTERGENIC			
SNP_99225_A_57734	NW_004516833.1	scaffold1701	57734	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99226_A_57739	NW_004516833.1	scaffold1701	57739	AA	GG	GG	INTERGENIC			
SNP_99227_A_57760	NW_004516833.1	scaffold1701	57760	GG	AA	AA	INTERGENIC			
SNP_99228_A_57873	NW_004516833.1	scaffold1701	57873	AA	TT	TT	INTERGENIC			
SNP_99229_A_57945	NW_004516833.1	scaffold1701	57945	TT	CC	CC	INTERGENIC			
SNP_99230_A_68115	NW_004516833.1	scaffold1701	68115	AA	GG	GG	INTERGENIC			
SNP_99231_A_76961	NW_004516833.1	scaffold1701	76961	GG	CC	CC	INTERGENIC			
SNP_99232_A_86520	NW_004516833.1	scaffold1701	86520	AA	CC	CC	INTERGENIC			
SNP_99233_A_86537	NW_004516833.1	scaffold1701	86537	CC	TT	TT	INTERGENIC			
SNP_99234_A_86540	NW_004516833.1	scaffold1701	86540	GG	CC	CC	INTERGENIC			
SNP_99235_A_86550	NW_004516833.1	scaffold1701	86550	TT	CC	CC	INTERGENIC			
SNP_99236_A_86558	NW_004516833.1	scaffold1701	86558	GG	TT	TT	INTERGENIC			
SNP_99237_A_86567	NW_004516833.1	scaffold1701	86567	GG	AA	AA	INTERGENIC			
SNP_99238_A_86592	NW_004516833.1	scaffold1701	86592	GG	AA	AA	INTERGENIC			
SNP_99239_A_86607	NW_004516833.1	scaffold1701	86607	CC	TT	TT	INTERGENIC			
SNP_99240_A_86612	NW_004516833.1	scaffold1701	86612	GG	AA	AA	INTERGENIC			
SNP_99241_A_86613	NW_004516833.1	scaffold1701	86613	GG	TT	TT	INTERGENIC			
SNP_99242_A_86623	NW_004516833.1	scaffold1701	86623	CC	AA	AA	INTERGENIC			
SNP_99243_A_86656	NW_004516833.1	scaffold1701	86656	CC	TT	TT	INTERGENIC			
SNP_99244_A_92564	NW_004516833.1	scaffold1701	92564	CC	TT	TT	INTERGENIC			
SNP_99245_A_95564	NW_004516833.1	scaffold1701	95564	GG	CC	CC	INTERGENIC			
SNP_99246_A_95571	NW_004516833.1	scaffold1701	95571	AA	TT	TT	INTERGENIC			
SNP_99247_A_101017	NW_004516833.1	scaffold1701	101017	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99249_A_101230	NW_004516833.1	scaffold1701	101230	TT	CC	CC	INTERGENIC		
SNP_99250_A_101256	NW_004516833.1	scaffold1701	101256	GG	AA	AA	INTERGENIC		
SNP_99251_A_106728	NW_004516833.1	scaffold1701	106728	TT	GG	GG	INTERGENIC		
SNP_99252_A_109185	NW_004516833.1	scaffold1701	109185	GG	TT	TT	INTERGENIC		
SNP_99253_A_126569	NW_004516833.1	scaffold1701	126569	AA	GG	GG	URR	101504691	uncharacterized LOC101504691
SNP_99254_A_126571	NW_004516833.1	scaffold1701	126571	AA	CC	CC	URR	101504691	uncharacterized LOC101504691
SNP_99255_A_126581	NW_004516833.1	scaffold1701	126581	AA	CC	CC	URR	101504691	uncharacterized LOC101504691
SNP_99256_A_141678	NW_004516833.1	scaffold1701	141678	TT	CC	CC	INTERGENIC		
SNP_99257_A_142670	NW_004516833.1	scaffold1701	142670	AA	GG	GG	INTERGENIC		
SNP_99258_A_142751	NW_004516833.1	scaffold1701	142751	CC	TT	TT	INTERGENIC		
SNP_99259_A_145298	NW_004516833.1	scaffold1701	145298	GG	AA	AA	INTERGENIC		
SNP_99260_A_145787	NW_004516833.1	scaffold1701	145787	CC	TT	TT	INTERGENIC		
SNP_99261_A_145801	NW_004516833.1	scaffold1701	145801	GG	AA	AA	INTERGENIC		
SNP_99262_A_151013	NW_004516833.1	scaffold1701	151013	TT	GG	GG	INTERGENIC		
SNP_99263_A_151014	NW_004516833.1	scaffold1701	151014	CC	TT	TT	INTERGENIC		
SNP_99264_A_151569	NW_004516833.1	scaffold1701	151569	AA	GG	GG	INTERGENIC		
SNP_99265_A_151941	NW_004516833.1	scaffold1701	151941	GG	AA	AA	INTERGENIC		
SNP_99266_A_151955	NW_004516833.1	scaffold1701	151955	AA	GG	GG	INTERGENIC		
SNP_99267_A_151979	NW_004516833.1	scaffold1701	151979	CC	TT	TT	INTERGENIC		
SNP_99268_A_151982	NW_004516833.1	scaffold1701	151982	AA	GG	GG	INTERGENIC		
SNP_99269_A_152024	NW_004516833.1	scaffold1701	152024	TT	CC	CC	INTERGENIC		
SNP_99270_A_154091	NW_004516833.1	scaffold1701	154091	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99271_A_154093	NW_004516833.1	scaffold1701	154093	TT	CC	CC	INTERGENIC			
SNP_99272_A_154121	NW_004516833.1	scaffold1701	154121	CC	TT	TT	INTERGENIC			
SNP_99274_A_86499	NW_004516835.1	scaffold1703	86499	CC	AA	AA	INTERGENIC			
SNP_99275_A_91059	NW_004516835.1	scaffold1703	91059	CC	TT	TT	INTERGENIC			
SNP_99276_A_130642	NW_004516835.1	scaffold1703	130642	GG	AA	AA	INTERGENIC			
SNP_99277_A_130670	NW_004516835.1	scaffold1703	130670	TT	CC	CC	INTERGENIC			
SNP_99278_A_130696	NW_004516835.1	scaffold1703	130696	CC	TT	TT	INTERGENIC			
SNP_99279_A_130722	NW_004516835.1	scaffold1703	130722	TT	CC	CC	INTERGENIC			
SNP_99280_A_130744	NW_004516835.1	scaffold1703	130744	CC	TT	TT	INTERGENIC			
SNP_99281_A_130911	NW_004516835.1	scaffold1703	130911	AA	GG	GG	INTERGENIC			
SNP_99282_A_130935	NW_004516835.1	scaffold1703	130935	CC	AA	AA	INTERGENIC			
SNP_99283_A_130943	NW_004516835.1	scaffold1703	130943	GG	AA	AA	INTERGENIC			
SNP_99286_A_137618	NW_004516835.1	scaffold1703	137618	GG	AA	AA	INTERGENIC			
SNP_99287_A_165049	NW_004516835.1	scaffold1703	165049	GG	AA	AA	INTRON	101509285	Unknown function	
SNP_99288_A_165088	NW_004516835.1	scaffold1703	165088	TT	AA	AA	INTRON	101509285	Unknown function	
SNP_99289_A_165097	NW_004516835.1	scaffold1703	165097	TT	GG	GG	INTRON	101509285	Unknown function	
SNP_99290_A_165112	NW_004516835.1	scaffold1703	165112	TT	CC	CC	INTRON	101509285	Unknown function	
SNP_99291_A_199063	NW_004516835.1	scaffold1703	199063	GG	TT	TT	INTERGENIC			
SNP_99292_A_200062	NW_004516835.1	scaffold1703	200062	CC	TT	TT	INTERGENIC			
SNP_99293_A_200147	NW_004516835.1	scaffold1703	200147	TT	AA	AA	INTERGENIC			
SNP_99294_A_200679	NW_004516835.1	scaffold1703	200679	TT	CC	CC	INTERGENIC			
SNP_99295_A_203344	NW_004516835.1	scaffold1703	203344	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99296_A_203819	NW_004516835.1	scaffold1703	203819	TT	GG	GG	INTERGENIC			
SNP_99297_A_221820	NW_004516835.1	scaffold1703	221820	AA	GG	GG	INTERGENIC			
SNP_99298_A_223111	NW_004516835.1	scaffold1703	223111	TT	CC	CC	INTERGENIC			
SNP_99299_A_232499	NW_004516835.1	scaffold1703	232499	TT	AA	AA	INTERGENIC			
SNP_99300_A_232590	NW_004516835.1	scaffold1703	232590	AA	GG	GG	INTERGENIC			
SNP_99302_A_262400	NW_004516835.1	scaffold1703	262400	AA	TT	TT	INTERGENIC			
SNP_99303_A_277824	NW_004516835.1	scaffold1703	277824	CC	TT	TT	INTERGENIC			
SNP_99304_A_297240	NW_004516835.1	scaffold1703	297240	AA	TT	TT	INTERGENIC			
SNP_99305_A_8790	NW_004516836.1	scaffold1704	8790	AA	GG	GG	INTERGENIC			
SNP_99306_A_8834	NW_004516836.1	scaffold1704	8834	TT	CC	CC	INTERGENIC			
SNP_99308_A_9137	NW_004516836.1	scaffold1704	9137	AA	GG	GG	INTERGENIC			
SNP_99309_A_9165	NW_004516836.1	scaffold1704	9165	GG	CC	CC	INTERGENIC			
SNP_99310_A_9221	NW_004516836.1	scaffold1704	9221	AA	TT	TT	INTERGENIC			
SNP_99311_A_9301	NW_004516836.1	scaffold1704	9301	AA	CC	CC	INTERGENIC			
SNP_99312_A_10823	NW_004516836.1	scaffold1704	10823	CC	TT	TT	INTERGENIC			
SNP_99313_A_10969	NW_004516836.1	scaffold1704	10969	AA	GG	GG	INTERGENIC			
SNP_99314_A_11047	NW_004516836.1	scaffold1704	11047	AA	CC	CC	INTERGENIC			
SNP_99315_A_11073	NW_004516836.1	scaffold1704	11073	CC	GG	GG	INTERGENIC			
SNP_99316_A_11427	NW_004516836.1	scaffold1704	11427	GG	CC	CC	INTERGENIC			
SNP_99318_A_26009	NW_004516836.1	scaffold1704	26009	CC	GG	GG	INTERGENIC			
SNP_99319_A_26128	NW_004516836.1	scaffold1704	26128	TT	CC	CC	INTERGENIC			
SNP_99320_A_32901	NW_004516836.1	scaffold1704	32901	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99321_A_32938	NW_004516836.1	scaffold1704	32938	AA	GG	GG	INTERGENIC		
SNP_99322_A_39154	NW_004516836.1	scaffold1704	39154	CC	GG	GG	INTERGENIC		
SNP_99323_A_39653	NW_004516836.1	scaffold1704	39653	AA	CC	CC	INTERGENIC		
SNP_99324_A_92482	NW_004516836.1	scaffold1704	92482	GG	AA	AA	INTERGENIC		
SNP_99325_A_540	NW_004516837.1	scaffold1706	540	CC	TT	TT	INTERGENIC		
SNP_99326_A_1128	NW_004516837.1	scaffold1706	1128	CC	TT	TT	INTERGENIC		
SNP_99327_A_22318	NW_004516837.1	scaffold1706	22318	AA	TT	TT	NON_SYNONYMOUS_CODING	101510585	40S ribosomal protein S8-like
SNP_99328_A_22579	NW_004516837.1	scaffold1706	22579	AA	GG	GG	INTRON	101510585	40S ribosomal protein S8-like
SNP_99329_A_29490	NW_004516837.1	scaffold1706	29490	AA	GG	GG	INTRON	101510585	40S ribosomal protein S8-like
SNP_99330_A_61837	NW_004516837.1	scaffold1706	61837	CC	AA	AA	INTERGENIC		
SNP_99331_A_76903	NW_004516837.1	scaffold1706	76903	TT	CC	CC	INTERGENIC		
SNP_99332_A_76959	NW_004516837.1	scaffold1706	76959	TT	CC	CC	INTERGENIC		
SNP_99333_A_76987	NW_004516837.1	scaffold1706	76987	AA	GG	GG	INTERGENIC		
SNP_99334_A_77022	NW_004516837.1	scaffold1706	77022	GG	AA	AA	INTERGENIC		
SNP_99335_A_77072	NW_004516837.1	scaffold1706	77072	CC	GG	GG	INTERGENIC		
SNP_99336_A_79654	NW_004516837.1	scaffold1706	79654	AA	GG	GG	INTERGENIC		
SNP_99337_A_79670	NW_004516837.1	scaffold1706	79670	AA	TT	TT	INTERGENIC		
SNP_99339_A_79707	NW_004516837.1	scaffold1706	79707	TT	CC	CC	INTERGENIC		
SNP_99340_A_79712	NW_004516837.1	scaffold1706	79712	GG	AA	AA	INTERGENIC		
SNP_99341_A_79722	NW_004516837.1	scaffold1706	79722	TT	CC	CC	INTERGENIC		
SNP_99342_A_83591	NW_004516837.1	scaffold1706	83591	TT	AA	AA	INTERGENIC		
SNP_99343_A_83652	NW_004516837.1	scaffold1706	83652	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99345_A_84355	NW_004516837.1	scaffold1706	84355	CC	TT	TT	INTERGENIC			
SNP_99346_A_84366	NW_004516837.1	scaffold1706	84366	GG	AA	AA	INTERGENIC			
SNP_99347_A_86546	NW_004516837.1	scaffold1706	86546	TT	GG	GG	INTERGENIC			
SNP_99348_A_90760	NW_004516837.1	scaffold1706	90760	AA	CC	CC	INTERGENIC			
SNP_99349_A_93788	NW_004516837.1	scaffold1706	93788	CC	TT	TT	INTERGENIC			
SNP_99350_A_99093	NW_004516837.1	scaffold1706	99093	AA	GG	GG	INTERGENIC			
SNP_99351_A_99305	NW_004516837.1	scaffold1706	99305	AA	GG	GG	INTERGENIC			
SNP_99352_A_100260	NW_004516837.1	scaffold1706	100260	AA	GG	GG	INTERGENIC			
SNP_99353_A_101504	NW_004516837.1	scaffold1706	101504	TT	GG	GG	INTERGENIC			
SNP_99354_A_109366	NW_004516837.1	scaffold1706	109366	GG	CC	CC	INTERGENIC			
SNP_99355_A_491	NW_004516839.1	scaffold1708	491	CC	TT	TT	INTERGENIC			
SNP_99356_A_2345	NW_004516839.1	scaffold1708	2345	CC	TT	TT	INTERGENIC			
SNP_99357_A_2346	NW_004516839.1	scaffold1708	2346	CC	TT	TT	INTERGENIC			
SNP_99358_A_5722	NW_004516839.1	scaffold1708	5722	AA	GG	GG	INTERGENIC			
SNP_99359_A_7683	NW_004516839.1	scaffold1708	7683	AA	GG	GG	INTERGENIC			
SNP_99360_A_8044	NW_004516839.1	scaffold1708	8044	AA	TT	TT	INTERGENIC			
SNP_99361_A_10423	NW_004516839.1	scaffold1708	10423	AA	GG	GG	INTERGENIC			
SNP_99363_A_11785	NW_004516839.1	scaffold1708	11785	TT	AA	AA	INTERGENIC			
SNP_99365_A_14170	NW_004516839.1	scaffold1708	14170	CC	GG	GG	INTERGENIC			
SNP_99367_A_24239	NW_004516839.1	scaffold1708	24239	AA	TT	TT	INTERGENIC			
SNP_99368_A_26625	NW_004516839.1	scaffold1708	26625	TT	CC	CC	INTERGENIC			
SNP_99369_A_26636	NW_004516839.1	scaffold1708	26636	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99370_A_29646	NW_004516839.1	scaffold1708	29646	GG	TT	TT	INTERGENIC			
SNP_99371_A_29825	NW_004516839.1	scaffold1708	29825	AA	TT	TT	INTERGENIC			
SNP_99372_A_29880	NW_004516839.1	scaffold1708	29880	GG	CC	CC	INTERGENIC			
SNP_99373_A_29914	NW_004516839.1	scaffold1708	29914	CC	TT	TT	INTERGENIC			
SNP_99374_A_29961	NW_004516839.1	scaffold1708	29961	CC	TT	TT	INTERGENIC			
SNP_99375_A_31574	NW_004516839.1	scaffold1708	31574	TT	GG	GG	INTERGENIC			
SNP_99376_A_35381	NW_004516839.1	scaffold1708	35381	TT	CC	CC	INTERGENIC			
SNP_99377_A_35401	NW_004516839.1	scaffold1708	35401	CC	TT	TT	INTERGENIC			
SNP_99378_A_38170	NW_004516839.1	scaffold1708	38170	GG	AA	AA	INTERGENIC			
SNP_99379_A_40740	NW_004516839.1	scaffold1708	40740	TT	GG	GG	INTERGENIC			
SNP_99381_A_44787	NW_004516839.1	scaffold1708	44787	AA	TT	TT	INTERGENIC			
SNP_99382_A_46683	NW_004516839.1	scaffold1708	46683	CC	AA	AA	INTERGENIC			
SNP_99383_A_49156	NW_004516839.1	scaffold1708	49156	CC	TT	TT	INTERGENIC			
SNP_99385_A_49925	NW_004516839.1	scaffold1708	49925	CC	AA	AA	INTERGENIC			
SNP_99386_A_50609	NW_004516839.1	scaffold1708	50609	AA	GG	GG	INTERGENIC			
SNP_99387_A_58809	NW_004516839.1	scaffold1708	58809	CC	AA	AA	INTERGENIC			
SNP_99389_A_86669	NW_004516839.1	scaffold1708	86669	CC	TT	TT	INTERGENIC			
SNP_99390_A_87286	NW_004516839.1	scaffold1708	87286	CC	TT	TT	INTERGENIC			
SNP_99392_A_87411	NW_004516839.1	scaffold1708	87411	TT	CC	CC	INTERGENIC			
SNP_99393_A_87413	NW_004516839.1	scaffold1708	87413	GG	AA	AA	INTERGENIC			
SNP_99394_A_87427	NW_004516839.1	scaffold1708	87427	GG	CC	CC	INTERGENIC			
SNP_99395_A_87688	NW_004516839.1	scaffold1708	87688	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99396_A_88271	NW_004516839.1	scaffold1708	88271	AA	GG	GG	INTERGENIC			
SNP_99398_A_88377	NW_004516839.1	scaffold1708	88377	TT	CC	CC	INTERGENIC			
SNP_99400_A_64	NW_004516840.1	scaffold1709	64	CC	AA	AA	INTERGENIC			
SNP_99401_A_65	NW_004516840.1	scaffold1709	65	AA	TT	TT	INTERGENIC			
SNP_99402_A_81	NW_004516840.1	scaffold1709	81	TT	CC	CC	INTERGENIC			
SNP_99403_A_186	NW_004516840.1	scaffold1709	186	AA	TT	TT	INTERGENIC			
SNP_99404_A_188	NW_004516840.1	scaffold1709	188	CC	GG	GG	INTERGENIC			
SNP_99405_A_196	NW_004516840.1	scaffold1709	196	GG	AA	AA	INTERGENIC			
SNP_99406_A_197	NW_004516840.1	scaffold1709	197	CC	GG	GG	INTERGENIC			
SNP_99407_A_202	NW_004516840.1	scaffold1709	202	GG	AA	AA	INTERGENIC			
SNP_99408_A_203	NW_004516840.1	scaffold1709	203	GG	TT	TT	INTERGENIC			
SNP_99409_A_403	NW_004516840.1	scaffold1709	403	AA	GG	GG	INTERGENIC			
SNP_99410_A_8585	NW_004516841.1	scaffold1710	8585	AA	CC	CC	INTERGENIC			
SNP_99411_A_8589	NW_004516841.1	scaffold1710	8589	TT	AA	AA	INTERGENIC			
SNP_99413_A_35836	NW_004516841.1	scaffold1710	35836	CC	TT	TT	INTERGENIC			
SNP_99415_A_82897	NW_004516841.1	scaffold1710	82897	TT	AA	AA	INTERGENIC			
SNP_99416_A_93324	NW_004516841.1	scaffold1710	93324	CC	TT	TT	INTERGENIC			
SNP_99417_A_93757	NW_004516841.1	scaffold1710	93757	AA	GG	GG	INTERGENIC			
SNP_99418_A_132827	NW_004516841.1	scaffold1710	132827	TT	CC	CC	INTERGENIC			
SNP_99420_A_133080	NW_004516841.1	scaffold1710	133080	CC	TT	TT	INTERGENIC			
SNP_99421_A_143555	NW_004516841.1	scaffold1710	143555	AA	GG	GG	INTERGENIC			
SNP_99422_A_144247	NW_004516841.1	scaffold1710	144247	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99424_A_950	NW_004516842.1	scaffold1711	950	TT	GG	GG	INTERGENIC		
SNP_99425_A_990	NW_004516842.1	scaffold1711	990	TT	AA	AA	INTERGENIC		
SNP_99426_A_1188	NW_004516845.1	scaffold1717	1188	GG	CC	CC	INTERGENIC		
SNP_99427_A_1384	NW_004516845.1	scaffold1717	1384	GG	TT	TT	INTERGENIC		
SNP_99428_A_1447	NW_004516845.1	scaffold1717	1447	AA	GG	GG	INTERGENIC		
SNP_99429_A_8170	NW_004516845.1	scaffold1717	8170	TT	AA	AA	INTERGENIC		
SNP_99430_A_8719	NW_004516845.1	scaffold1717	8719	TT	AA	AA	INTERGENIC		
SNP_99431_A_60473	NW_004516846.1	scaffold1718	60473	TT	CC	CC	INTERGENIC		
SNP_99432_A_42687	NW_004516849.1	scaffold1722	42687	CC	AA	AA	INTERGENIC		
SNP_99433_A_56373	NW_004516849.1	scaffold1722	56373	TT	AA	AA	INTERGENIC		
SNP_99434_A_57658	NW_004516849.1	scaffold1722	57658	TT	AA	AA	INTERGENIC		
SNP_99436_A_66019	NW_004516849.1	scaffold1722	66019	TT	GG	GG	INTRON	101491133	ribulose-phosphate 3-epimerase, cytoplasmic isoform-like
SNP_99437_A_66047	NW_004516849.1	scaffold1722	66047	AA	GG	GG	INTRON	101491133	ribulose-phosphate 3-epimerase, cytoplasmic isoform-like
SNP_99438_A_66341	NW_004516849.1	scaffold1722	66341	AA	GG	GG	INTRON	101491133	ribulose-phosphate 3-epimerase, cytoplasmic isoform-like
SNP_99439_A_112263	NW_004516849.1	scaffold1722	112263	CC	TT	TT	INTERGENIC		
SNP_99441_A_153676	NW_004516849.1	scaffold1722	153676	TT	GG	GG	DRR	101492972	uncharacterized LOC101492972
SNP_99442_A_156214	NW_004516849.1	scaffold1722	156214	AA	GG	GG	URR	101492972	uncharacterized LOC101492972
SNP_99443_A_168191	NW_004516849.1	scaffold1722	168191	GG	TT	TT	INTERGENIC		
SNP_99444_A_168234	NW_004516849.1	scaffold1722	168234	GG	AA	AA	INTERGENIC		
SNP_99445_A_176623	NW_004516849.1	scaffold1722	176623	CC	TT	TT	INTERGENIC		
SNP_99446_A_184366	NW_004516849.1	scaffold1722	184366	CC	TT	TT	INTERGENIC		
SNP_99447_A_184376	NW_004516849.1	scaffold1722	184376	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99448_A_184388	NW_004516849.1	scaffold1722	184388	CC	AA	AA	INTERGENIC			
SNP_99449_A_184390	NW_004516849.1	scaffold1722	184390	AA	GG	GG	INTERGENIC			
SNP_99450_A_184587	NW_004516849.1	scaffold1722	184587	AA	GG	GG	INTERGENIC			
SNP_99451_A_184654	NW_004516849.1	scaffold1722	184654	AA	GG	GG	INTERGENIC			
SNP_99452_A_184665	NW_004516849.1	scaffold1722	184665	GG	AA	AA	INTERGENIC			
SNP_99453_A_187128	NW_004516849.1	scaffold1722	187128	AA	GG	GG	INTERGENIC			
SNP_99454_A_187131	NW_004516849.1	scaffold1722	187131	TT	GG	GG	INTERGENIC			
SNP_99455_A_657	NW_004516850.1	scaffold1723	657	CC	TT	TT	INTERGENIC			
SNP_99456_A_796	NW_004516850.1	scaffold1723	796	GG	CC	CC	INTERGENIC			
SNP_99458_A_817	NW_004516850.1	scaffold1723	817	TT	CC	CC	INTERGENIC			
SNP_99459_A_869	NW_004516850.1	scaffold1723	869	CC	TT	TT	INTERGENIC			
SNP_99461_A_1133	NW_004516850.1	scaffold1723	1133	AA	GG	GG	INTERGENIC			
SNP_99462_A_1176	NW_004516850.1	scaffold1723	1176	TT	CC	CC	INTERGENIC			
SNP_99463_A_1188	NW_004516850.1	scaffold1723	1188	AA	CC	CC	INTERGENIC			
SNP_99464_A_1271	NW_004516850.1	scaffold1723	1271	GG	TT	TT	INTERGENIC			
SNP_99466_A_1314	NW_004516850.1	scaffold1723	1314	GG	AA	AA	INTERGENIC			
SNP_99467_A_1351	NW_004516850.1	scaffold1723	1351	TT	AA	AA	INTERGENIC			
SNP_99468_A_1391	NW_004516850.1	scaffold1723	1391	AA	TT	TT	INTERGENIC			
SNP_99469_A_1418	NW_004516850.1	scaffold1723	1418	TT	CC	CC	INTERGENIC			
SNP_99470_A_1424	NW_004516850.1	scaffold1723	1424	CC	TT	TT	INTERGENIC			
SNP_99471_A_1487	NW_004516850.1	scaffold1723	1487	AA	TT	TT	INTERGENIC			
SNP_99472_A_1488	NW_004516850.1	scaffold1723	1488	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99473_A_179	NW_004516851.1	scaffold1725	179	CC	GG	GG	INTERGENIC		
SNP_99474_A_22112	NW_004516851.1	scaffold1725	22112	TT	CC	CC	INTERGENIC		
SNP_99475_A_22140	NW_004516851.1	scaffold1725	22140	TT	GG	GG	INTERGENIC		
SNP_99476_A_28621	NW_004516851.1	scaffold1725	28621	TT	AA	AA	INTERGENIC		
SNP_99477_A_28648	NW_004516851.1	scaffold1725	28648	AA	CC	CC	INTERGENIC		
SNP_99478_A_28662	NW_004516851.1	scaffold1725	28662	AA	TT	TT	INTERGENIC		
SNP_99480_A_33622	NW_004516851.1	scaffold1725	33622	AA	GG	GG	SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99481_A_33665	NW_004516851.1	scaffold1725	33665	AA	GG	GG	NON_SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99482_A_33885	NW_004516851.1	scaffold1725	33885	TT	GG	GG	NON_SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99483_A_33973	NW_004516851.1	scaffold1725	33973	TT	CC	CC	SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99484_A_34060	NW_004516851.1	scaffold1725	34060	TT	CC	CC	SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99485_A_34068	NW_004516851.1	scaffold1725	34068	AA	CC	CC	NON_SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99486_A_34465	NW_004516851.1	scaffold1725	34465	TT	CC	CC	SYNONYMOUS_CODING	101493307	uncharacterized LOC101493307
SNP_99487_A_40077	NW_004516851.1	scaffold1725	40077	TT	CC	CC	SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99488_A_40132	NW_004516851.1	scaffold1725	40132	TT	CC	CC	NON_SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99489_A_40347	NW_004516851.1	scaffold1725	40347	CC	AA	AA	NON_SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99490_A_40424	NW_004516851.1	scaffold1725	40424	TT	CC	CC	NON_SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99491_A_40432	NW_004516851.1	scaffold1725	40432	AA	GG	GG	NON_SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99492_A_40443	NW_004516851.1	scaffold1725	40443	AA	CC	CC	SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99493_A_40491	NW_004516851.1	scaffold1725	40491	TT	CC	CC	SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99494_A_40502	NW_004516851.1	scaffold1725	40502	AA	GG	GG	NON_SYNONYMOUS_CODING	101493628	uncharacterized LOC101493628
SNP_99495_A_16009	NW_004516852.1	scaffold1726	16009	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99496_A_16011	NW_004516852.1	scaffold1726	16011	AA	GG	GG	INTERGENIC		
SNP_99497_A_30749	NW_004516852.1	scaffold1726	30749	GG	AA	AA	INTERGENIC		
SNP_99498_A_35338	NW_004516852.1	scaffold1726	35338	AA	GG	GG	INTERGENIC		
SNP_99499_A_41172	NW_004516852.1	scaffold1726	41172	TT	CC	CC	INTERGENIC		
SNP_99500_A_2055	NW_004516854.1	scaffold1728	2055	AA	GG	GG	INTRON	101494580	uncharacterized LOC101494580
SNP_99501_A_16395	NW_004516854.1	scaffold1728	16395	GG	AA	AA	INTRON	101494580	uncharacterized LOC101494580
SNP_99502_A_470	NW_004516855.1	scaffold1729	470	CC	GG	GG	INTERGENIC		
SNP_99503_A_522	NW_004516855.1	scaffold1729	522	AA	TT	TT	INTERGENIC		
SNP_99504_A_79849	NW_004516855.1	scaffold1729	79849	AA	GG	GG	DRR	101499366	Unknown function
SNP_99505_A_80209	NW_004516855.1	scaffold1729	80209	CC	TT	TT	DRR	101499366	Unknown function
SNP_99506_A_80374	NW_004516855.1	scaffold1729	80374	AA	GG	GG	DRR	101499366	Unknown function
SNP_99507_A_80390	NW_004516855.1	scaffold1729	80390	TT	CC	CC	DRR	101499366	Unknown function
SNP_99508_A_80423	NW_004516855.1	scaffold1729	80423	TT	CC	CC	DRR	101499366	Unknown function
SNP_99509_A_147197	NW_004516855.1	scaffold1729	147197	AA	GG	GG	INTERGENIC		
SNP_99510_A_12188	NW_004516856.1	scaffold1730	12188	CC	TT	TT	INTERGENIC		
SNP_99511_A_15688	NW_004516856.1	scaffold1730	15688	AA	GG	GG	INTERGENIC		
SNP_99512_A_18183	NW_004516856.1	scaffold1730	18183	CC	TT	TT	INTERGENIC		
SNP_99513_A_18937	NW_004516856.1	scaffold1730	18937	GG	AA	AA	INTERGENIC		
SNP_99514_A_22373	NW_004516856.1	scaffold1730	22373	TT	CC	CC	INTERGENIC		
SNP_99515_A_24540	NW_004516856.1	scaffold1730	24540	AA	CC	CC	INTERGENIC		
SNP_99516_A_25173	NW_004516856.1	scaffold1730	25173	TT	AA	AA	INTERGENIC		
SNP_99517_A_25209	NW_004516856.1	scaffold1730	25209	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99518_A_25503	NW_004516856.1	scaffold1730	25503	AA	TT	TT	INTERGENIC			
SNP_99519_A_25504	NW_004516856.1	scaffold1730	25504	AA	CC	CC	INTERGENIC			
SNP_99520_A_28373	NW_004516856.1	scaffold1730	28373	AA	GG	GG	INTERGENIC			
SNP_99521_A_28567	NW_004516856.1	scaffold1730	28567	TT	CC	CC	INTERGENIC			
SNP_99522_A_28590	NW_004516856.1	scaffold1730	28590	AA	TT	TT	INTERGENIC			
SNP_99523_A_28648	NW_004516856.1	scaffold1730	28648	TT	CC	CC	INTERGENIC			
SNP_99524_A_28711	NW_004516856.1	scaffold1730	28711	CC	GG	GG	INTERGENIC			
SNP_99525_A_28768	NW_004516856.1	scaffold1730	28768	GG	AA	AA	INTERGENIC			
SNP_99526_A_28806	NW_004516856.1	scaffold1730	28806	TT	GG	GG	INTERGENIC			
SNP_99527_A_28828	NW_004516856.1	scaffold1730	28828	TT	AA	AA	INTERGENIC			
SNP_99528_A_28890	NW_004516856.1	scaffold1730	28890	GG	TT	TT	INTERGENIC			
SNP_99529_A_32368	NW_004516856.1	scaffold1730	32368	AA	TT	TT	INTERGENIC			
SNP_99530_A_33213	NW_004516856.1	scaffold1730	33213	AA	GG	GG	INTERGENIC			
SNP_99531_A_33548	NW_004516856.1	scaffold1730	33548	TT	CC	CC	INTERGENIC			
SNP_99532_A_34148	NW_004516856.1	scaffold1730	34148	GG	TT	TT	INTERGENIC			
SNP_99533_A_43228	NW_004516856.1	scaffold1730	43228	CC	GG	GG	INTERGENIC			
SNP_99534_A_45558	NW_004516856.1	scaffold1730	45558	AA	GG	GG	INTERGENIC			
SNP_99535_A_47030	NW_004516856.1	scaffold1730	47030	TT	CC	CC	INTERGENIC			
SNP_99536_A_49583	NW_004516856.1	scaffold1730	49583	GG	TT	TT	INTERGENIC			
SNP_99537_A_52537	NW_004516856.1	scaffold1730	52537	TT	GG	GG	INTERGENIC			
SNP_99539_A_52667	NW_004516856.1	scaffold1730	52667	TT	AA	AA	INTERGENIC			
SNP_99540_A_52786	NW_004516856.1	scaffold1730	52786	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99541_A_52990	NW_004516856.1	scaffold1730	52990	AA	CC	CC	INTERGENIC			
SNP_99542_A_53033	NW_004516856.1	scaffold1730	53033	TT	CC	CC	INTERGENIC			
SNP_99543_A_58757	NW_004516856.1	scaffold1730	58757	TT	AA	AA	INTERGENIC			
SNP_99544_A_58819	NW_004516856.1	scaffold1730	58819	CC	TT	TT	INTERGENIC			
SNP_99545_A_58896	NW_004516856.1	scaffold1730	58896	GG	TT	TT	INTERGENIC			
SNP_99546_A_58914	NW_004516856.1	scaffold1730	58914	TT	CC	CC	INTERGENIC			
SNP_99547_A_59389	NW_004516856.1	scaffold1730	59389	TT	GG	GG	INTERGENIC			
SNP_99548_A_64014	NW_004516856.1	scaffold1730	64014	CC	GG	GG	INTERGENIC			
SNP_99550_A_67044	NW_004516856.1	scaffold1730	67044	CC	AA	AA	INTERGENIC			
SNP_99551_A_67218	NW_004516856.1	scaffold1730	67218	GG	AA	AA	INTERGENIC			
SNP_99552_A_67292	NW_004516856.1	scaffold1730	67292	TT	CC	CC	INTERGENIC			
SNP_99553_A_67910	NW_004516856.1	scaffold1730	67910	AA	GG	GG	INTERGENIC			
SNP_99554_A_68296	NW_004516856.1	scaffold1730	68296	CC	TT	TT	INTERGENIC			
SNP_99555_A_68300	NW_004516856.1	scaffold1730	68300	GG	TT	TT	INTERGENIC			
SNP_99556_A_68611	NW_004516856.1	scaffold1730	68611	CC	AA	AA	INTERGENIC			
SNP_99557_A_68670	NW_004516856.1	scaffold1730	68670	CC	TT	TT	INTERGENIC			
SNP_99558_A_68688	NW_004516856.1	scaffold1730	68688	AA	GG	GG	INTERGENIC			
SNP_99559_A_68718	NW_004516856.1	scaffold1730	68718	AA	GG	GG	INTERGENIC			
SNP_99560_A_72182	NW_004516856.1	scaffold1730	72182	GG	CC	CC	INTERGENIC			
SNP_99561_A_73723	NW_004516856.1	scaffold1730	73723	GG	CC	CC	INTERGENIC			
SNP_99562_A_74525	NW_004516856.1	scaffold1730	74525	GG	TT	TT	INTERGENIC			
SNP_99563_A_74564	NW_004516856.1	scaffold1730	74564	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99564_A_80447	NW_004516856.1	scaffold1730	80447	AA	TT	TT	INTERGENIC			
SNP_99565_A_86103	NW_004516856.1	scaffold1730	86103	GG	AA	AA	INTERGENIC			
SNP_99567_A_95545	NW_004516856.1	scaffold1730	95545	TT	GG	GG	INTERGENIC			
SNP_99570_A_105087	NW_004516856.1	scaffold1730	105087	GG	TT	TT	INTERGENIC			
SNP_99571_A_105664	NW_004516856.1	scaffold1730	105664	TT	CC	CC	INTERGENIC			
SNP_99572_A_105668	NW_004516856.1	scaffold1730	105668	AA	CC	CC	INTERGENIC			
SNP_99573_A_105685	NW_004516856.1	scaffold1730	105685	AA	CC	CC	INTERGENIC			
SNP_99574_A_105698	NW_004516856.1	scaffold1730	105698	CC	TT	TT	INTERGENIC			
SNP_99575_A_105910	NW_004516856.1	scaffold1730	105910	TT	GG	GG	INTERGENIC			
SNP_99576_A_105939	NW_004516856.1	scaffold1730	105939	GG	AA	AA	INTERGENIC			
SNP_99577_A_105945	NW_004516856.1	scaffold1730	105945	CC	AA	AA	INTERGENIC			
SNP_99578_A_105950	NW_004516856.1	scaffold1730	105950	GG	AA	AA	INTERGENIC			
SNP_99579_A_106010	NW_004516856.1	scaffold1730	106010	CC	TT	TT	INTERGENIC			
SNP_99580_A_106064	NW_004516856.1	scaffold1730	106064	GG	AA	AA	INTERGENIC			
SNP_99581_A_106070	NW_004516856.1	scaffold1730	106070	TT	CC	CC	INTERGENIC			
SNP_99582_A_106072	NW_004516856.1	scaffold1730	106072	TT	CC	CC	INTERGENIC			
SNP_99583_A_106078	NW_004516856.1	scaffold1730	106078	CC	TT	TT	INTERGENIC			
SNP_99584_A_106083	NW_004516856.1	scaffold1730	106083	GG	AA	AA	INTERGENIC			
SNP_99585_A_109372	NW_004516856.1	scaffold1730	109372	AA	GG	GG	INTERGENIC			
SNP_99586_A_110485	NW_004516856.1	scaffold1730	110485	TT	CC	CC	INTERGENIC			
SNP_99587_A_110744	NW_004516856.1	scaffold1730	110744	CC	GG	GG	INTERGENIC			
SNP_99588_A_110804	NW_004516856.1	scaffold1730	110804	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99589_A_111049	NW_004516856.1	scaffold1730	111049	TT	CC	CC	INTERGENIC			
SNP_99590_A_111319	NW_004516856.1	scaffold1730	111319	CC	TT	TT	INTERGENIC			
SNP_99591_A_112295	NW_004516856.1	scaffold1730	112295	TT	AA	AA	INTERGENIC			
SNP_99592_A_112418	NW_004516856.1	scaffold1730	112418	CC	TT	TT	INTERGENIC			
SNP_99593_A_113612	NW_004516856.1	scaffold1730	113612	GG	CC	CC	INTERGENIC			
SNP_99594_A_114659	NW_004516856.1	scaffold1730	114659	CC	AA	AA	INTERGENIC			
SNP_99595_A_114666	NW_004516856.1	scaffold1730	114666	AA	GG	GG	INTERGENIC			
SNP_99596_A_114723	NW_004516856.1	scaffold1730	114723	CC	AA	AA	INTERGENIC			
SNP_99597_A_114730	NW_004516856.1	scaffold1730	114730	GG	AA	AA	INTERGENIC			
SNP_99598_A_114802	NW_004516856.1	scaffold1730	114802	CC	TT	TT	INTERGENIC			
SNP_99599_A_114941	NW_004516856.1	scaffold1730	114941	TT	CC	CC	INTERGENIC			
SNP_99600_A_121915	NW_004516856.1	scaffold1730	121915	CC	TT	TT	INTERGENIC			
SNP_99601_A_121929	NW_004516856.1	scaffold1730	121929	CC	AA	AA	INTERGENIC			
SNP_99602_A_123671	NW_004516856.1	scaffold1730	123671	CC	GG	GG	NON_SYNONYMOUS_CODING	101500645	Unknown function	
SNP_99603_A_125681	NW_004516856.1	scaffold1730	125681	GG	TT	TT	URR	101500645	Unknown function	
SNP_99604_A_126179	NW_004516856.1	scaffold1730	126179	TT	CC	CC	INTERGENIC			
SNP_99605_A_126183	NW_004516856.1	scaffold1730	126183	GG	AA	AA	INTERGENIC			
SNP_99606_A_2748	NW_004516857.1	scaffold1731	2748	GG	AA	AA	INTERGENIC			
SNP_99607_A_9523	NW_004516857.1	scaffold1731	9523	AA	TT	TT	INTERGENIC			
SNP_99608_A_13277	NW_004516857.1	scaffold1731	13277	TT	CC	CC	INTERGENIC			
SNP_99609_A_13531	NW_004516857.1	scaffold1731	13531	AA	GG	GG	INTERGENIC			
SNP_99610_A_22657	NW_004516857.1	scaffold1731	22657	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99611_A_30693	NW_004516857.1	scaffold1731	30693	TT	AA	AA	INTERGENIC			
SNP_99612_A_38803	NW_004516857.1	scaffold1731	38803	CC	TT	TT	INTERGENIC			
SNP_99613_A_38811	NW_004516857.1	scaffold1731	38811	CC	TT	TT	INTERGENIC			
SNP_99614_A_38819	NW_004516857.1	scaffold1731	38819	CC	TT	TT	INTERGENIC			
SNP_99615_A_38827	NW_004516857.1	scaffold1731	38827	CC	TT	TT	INTERGENIC			
SNP_99616_A_38835	NW_004516857.1	scaffold1731	38835	CC	TT	TT	INTERGENIC			
SNP_99618_A_38910	NW_004516857.1	scaffold1731	38910	AA	CC	CC	INTERGENIC			
SNP_99619_A_38974	NW_004516857.1	scaffold1731	38974	TT	AA	AA	INTERGENIC			
SNP_99620_A_39828	NW_004516857.1	scaffold1731	39828	CC	TT	TT	INTERGENIC			
SNP_99622_A_39917	NW_004516857.1	scaffold1731	39917	AA	GG	GG	INTERGENIC			
SNP_99623_A_41767	NW_004516857.1	scaffold1731	41767	GG	TT	TT	INTERGENIC			
SNP_99624_A_47385	NW_004516857.1	scaffold1731	47385	AA	GG	GG	INTERGENIC			
SNP_99625_A_48560	NW_004516857.1	scaffold1731	48560	GG	AA	AA	INTERGENIC			
SNP_99627_A_50013	NW_004516857.1	scaffold1731	50013	CC	TT	TT	INTERGENIC			
SNP_99628_A_51758	NW_004516857.1	scaffold1731	51758	TT	CC	CC	INTERGENIC			
SNP_99629_A_52597	NW_004516857.1	scaffold1731	52597	CC	AA	AA	INTERGENIC			
SNP_99631_A_54079	NW_004516857.1	scaffold1731	54079	AA	GG	GG	INTERGENIC			
SNP_99632_A_54357	NW_004516857.1	scaffold1731	54357	AA	GG	GG	INTERGENIC			
SNP_99633_A_54370	NW_004516857.1	scaffold1731	54370	CC	TT	TT	INTERGENIC			
SNP_99634_A_62720	NW_004516857.1	scaffold1731	62720	AA	GG	GG	INTERGENIC			
SNP_99635_A_62723	NW_004516857.1	scaffold1731	62723	CC	TT	TT	INTERGENIC			
SNP_99636_A_63731	NW_004516857.1	scaffold1731	63731	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99637_A_65438	NW_004516857.1	scaffold1731	65438	GG	TT	TT	INTERGENIC			
SNP_99639_A_66198	NW_004516857.1	scaffold1731	66198	GG	AA	AA	INTERGENIC			
SNP_99640_A_71750	NW_004516857.1	scaffold1731	71750	GG	TT	TT	INTERGENIC			
SNP_99641_A_71756	NW_004516857.1	scaffold1731	71756	TT	AA	AA	INTERGENIC			
SNP_99642_A_82281	NW_004516857.1	scaffold1731	82281	GG	AA	AA	INTERGENIC			
SNP_99644_A_85402	NW_004516857.1	scaffold1731	85402	AA	GG	GG	INTERGENIC			
SNP_99645_A_85936	NW_004516857.1	scaffold1731	85936	TT	CC	CC	INTERGENIC			
SNP_99647_A_356	NW_004516858.1	scaffold1734	356	AA	GG	GG	INTERGENIC			
SNP_99648_A_415	NW_004516858.1	scaffold1734	415	GG	AA	AA	INTERGENIC			
SNP_99649_A_417	NW_004516858.1	scaffold1734	417	GG	AA	AA	INTERGENIC			
SNP_99650_A_437	NW_004516858.1	scaffold1734	437	TT	CC	CC	INTERGENIC			
SNP_99651_A_462	NW_004516858.1	scaffold1734	462	AA	TT	TT	INTERGENIC			
SNP_99652_A_464	NW_004516858.1	scaffold1734	464	CC	TT	TT	INTERGENIC			
SNP_99653_A_827	NW_004516858.1	scaffold1734	827	GG	AA	AA	INTERGENIC			
SNP_99654_A_6599	NW_004516858.1	scaffold1734	6599	TT	CC	CC	INTERGENIC			
SNP_99655_A_7138	NW_004516858.1	scaffold1734	7138	CC	TT	TT	INTERGENIC			
SNP_99656_A_10377	NW_004516858.1	scaffold1734	10377	GG	TT	TT	INTERGENIC			
SNP_99657_A_10583	NW_004516858.1	scaffold1734	10583	GG	AA	AA	INTERGENIC			
SNP_99658_A_8179	NW_004516859.1	scaffold1736	8179	TT	CC	CC	INTERGENIC			
SNP_99659_A_8236	NW_004516859.1	scaffold1736	8236	GG	AA	AA	INTERGENIC			
SNP_99660_A_8282	NW_004516859.1	scaffold1736	8282	CC	AA	AA	INTERGENIC			
SNP_99662_A_8334	NW_004516859.1	scaffold1736	8334	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99664_A_8623	NW_004516859.1	scaffold1736	8623	GG	AA	AA	INTERGENIC			
SNP_99665_A_8789	NW_004516859.1	scaffold1736	8789	CC	TT	TT	INTERGENIC			
SNP_99666_A_8792	NW_004516859.1	scaffold1736	8792	GG	AA	AA	INTERGENIC			
SNP_99667_A_17304	NW_004516859.1	scaffold1736	17304	TT	CC	CC	INTERGENIC			
SNP_99669_A_25804	NW_004516859.1	scaffold1736	25804	GG	AA	AA	INTERGENIC			
SNP_99670_A_25876	NW_004516859.1	scaffold1736	25876	TT	AA	AA	INTERGENIC			
SNP_99671_A_32471	NW_004516859.1	scaffold1736	32471	TT	CC	CC	INTERGENIC			
SNP_99672_A_1338	NW_004516861.1	scaffold1739	1338	AA	GG	GG	INTERGENIC			
SNP_99673_A_446	NW_004516862.1	scaffold1740	446	CC	TT	TT	INTERGENIC			
SNP_99674_A_603	NW_004516862.1	scaffold1740	603	AA	GG	GG	INTERGENIC			
SNP_99675_A_918	NW_004516862.1	scaffold1740	918	GG	TT	TT	INTERGENIC			
SNP_99676_A_929	NW_004516862.1	scaffold1740	929	TT	GG	GG	INTERGENIC			
SNP_99677_A_1026	NW_004516862.1	scaffold1740	1026	GG	AA	AA	INTERGENIC			
SNP_99678_A_1055	NW_004516862.1	scaffold1740	1055	TT	GG	GG	INTERGENIC			
SNP_99679_A_1384	NW_004516862.1	scaffold1740	1384	AA	GG	GG	INTERGENIC			
SNP_99680_A_1495	NW_004516862.1	scaffold1740	1495	GG	TT	TT	INTERGENIC			
SNP_99681_A_2104	NW_004516862.1	scaffold1740	2104	CC	GG	GG	INTERGENIC			
SNP_99682_A_2186	NW_004516862.1	scaffold1740	2186	GG	TT	TT	INTERGENIC			
SNP_99683_A_2422	NW_004516862.1	scaffold1740	2422	GG	AA	AA	INTERGENIC			
SNP_99684_A_2428	NW_004516862.1	scaffold1740	2428	TT	CC	CC	INTERGENIC			
SNP_99685_A_2462	NW_004516862.1	scaffold1740	2462	GG	AA	AA	INTERGENIC			
SNP_99686_A_2506	NW_004516862.1	scaffold1740	2506	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99688_A_5247	NW_004516862.1	scaffold1740	5247	CC	TT	TT	INTERGENIC			
SNP_99689_A_5248	NW_004516862.1	scaffold1740	5248	GG	AA	AA	INTERGENIC			
SNP_99690_A_5277	NW_004516862.1	scaffold1740	5277	GG	AA	AA	INTERGENIC			
SNP_99691_A_16526	NW_004516862.1	scaffold1740	16526	TT	CC	CC	INTERGENIC			
SNP_99692_A_65272	NW_004516870.1	scaffold1750	65272	GG	AA	AA	INTERGENIC			
SNP_99693_A_69986	NW_004516870.1	scaffold1750	69986	TT	CC	CC	INTERGENIC			
SNP_99694_A_87482	NW_004516870.1	scaffold1750	87482	TT	AA	AA	INTERGENIC			
SNP_99695_A_87485	NW_004516870.1	scaffold1750	87485	AA	GG	GG	INTERGENIC			
SNP_99696_A_97601	NW_004516870.1	scaffold1750	97601	GG	AA	AA	INTERGENIC			
SNP_99697_A_113141	NW_004516870.1	scaffold1750	113141	CC	TT	TT	INTERGENIC			
SNP_99698_A_113258	NW_004516870.1	scaffold1750	113258	AA	GG	GG	INTERGENIC			
SNP_99700_A_151810	NW_004516870.1	scaffold1750	151810	AA	GG	GG	INTERGENIC			
SNP_99701_A_152174	NW_004516870.1	scaffold1750	152174	CC	TT	TT	INTERGENIC			
SNP_99702_A_152202	NW_004516870.1	scaffold1750	152202	GG	TT	TT	INTERGENIC			
SNP_99703_A_236652	NW_004516870.1	scaffold1750	236652	GG	AA	AA	INTERGENIC			
SNP_99704_A_242969	NW_004516870.1	scaffold1750	242969	AA	GG	GG	INTERGENIC			
SNP_99705_A_258882	NW_004516870.1	scaffold1750	258882	CC	TT	TT	URR	101504157	ubiquitin-fold modifier 1	
SNP_99706_A_6239	NW_004516871.1	scaffold1751	6239	AA	GG	GG	INTERGENIC			
SNP_99707_A_6344	NW_004516871.1	scaffold1751	6344	CC	AA	AA	INTERGENIC			
SNP_99708_A_9041	NW_004516871.1	scaffold1751	9041	AA	GG	GG	INTERGENIC			
SNP_99709_A_10117	NW_004516871.1	scaffold1751	10117	TT	CC	CC	INTERGENIC			
SNP_99710_A_10121	NW_004516871.1	scaffold1751	10121	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99711_A_14860	NW_004516871.1	scaffold1751	14860	CC	AA	AA	INTERGENIC			
SNP_99712_A_17601	NW_004516871.1	scaffold1751	17601	AA	GG	GG	INTERGENIC			
SNP_99713_A_38362	NW_004516871.1	scaffold1751	38362	AA	TT	TT	INTERGENIC			
SNP_99714_A_40854	NW_004516871.1	scaffold1751	40854	CC	TT	TT	INTERGENIC			
SNP_99715_A_63358	NW_004516871.1	scaffold1751	63358	AA	TT	TT	INTERGENIC			
SNP_99717_A_63373	NW_004516871.1	scaffold1751	63373	GG	AA	AA	INTERGENIC			
SNP_99718_A_63376	NW_004516871.1	scaffold1751	63376	TT	GG	GG	INTERGENIC			
SNP_99719_A_63441	NW_004516871.1	scaffold1751	63441	TT	CC	CC	INTERGENIC			
SNP_99720_A_63482	NW_004516871.1	scaffold1751	63482	TT	GG	GG	INTERGENIC			
SNP_99721_A_63487	NW_004516871.1	scaffold1751	63487	CC	TT	TT	INTERGENIC			
SNP_99722_A_63491	NW_004516871.1	scaffold1751	63491	AA	GG	GG	INTERGENIC			
SNP_99723_A_65096	NW_004516871.1	scaffold1751	65096	TT	CC	CC	INTERGENIC			
SNP_99724_A_65108	NW_004516871.1	scaffold1751	65108	AA	GG	GG	INTERGENIC			
SNP_99725_A_65302	NW_004516871.1	scaffold1751	65302	GG	AA	AA	INTERGENIC			
SNP_99726_A_65314	NW_004516871.1	scaffold1751	65314	AA	TT	TT	INTERGENIC			
SNP_99727_A_65323	NW_004516871.1	scaffold1751	65323	CC	TT	TT	INTERGENIC			
SNP_99728_A_65332	NW_004516871.1	scaffold1751	65332	TT	CC	CC	INTERGENIC			
SNP_99729_A_65334	NW_004516871.1	scaffold1751	65334	AA	GG	GG	INTERGENIC			
SNP_99730_A_65338	NW_004516871.1	scaffold1751	65338	TT	CC	CC	INTERGENIC			
SNP_99731_A_65356	NW_004516871.1	scaffold1751	65356	GG	AA	AA	INTERGENIC			
SNP_99732_A_65362	NW_004516871.1	scaffold1751	65362	AA	TT	TT	INTERGENIC			
SNP_99733_A_65368	NW_004516871.1	scaffold1751	65368	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99734_A_65378	NW_004516871.1	scaffold1751	65378	TT	GG	GG	INTERGENIC			
SNP_99735_A_65467	NW_004516871.1	scaffold1751	65467	TT	CC	CC	INTERGENIC			
SNP_99736_A_68991	NW_004516871.1	scaffold1751	68991	GG	AA	AA	INTERGENIC			
SNP_99737_A_69017	NW_004516871.1	scaffold1751	69017	TT	AA	AA	INTERGENIC			
SNP_99738_A_69036	NW_004516871.1	scaffold1751	69036	AA	GG	GG	INTERGENIC			
SNP_99739_A_69055	NW_004516871.1	scaffold1751	69055	AA	GG	GG	INTERGENIC			
SNP_99740_A_69537	NW_004516871.1	scaffold1751	69537	GG	TT	TT	INTERGENIC			
SNP_99741_A_97244	NW_004516871.1	scaffold1751	97244	GG	TT	TT	INTERGENIC			
SNP_99742_A_113992	NW_004516871.1	scaffold1751	113992	TT	AA	AA	INTERGENIC			
SNP_99743_A_121125	NW_004516871.1	scaffold1751	121125	AA	TT	TT	INTERGENIC			
SNP_99744_A_127332	NW_004516871.1	scaffold1751	127332	AA	GG	GG	INTERGENIC			
SNP_99745_A_127566	NW_004516871.1	scaffold1751	127566	CC	AA	AA	INTERGENIC			
SNP_99746_A_127615	NW_004516871.1	scaffold1751	127615	AA	CC	CC	INTERGENIC			
SNP_99747_A_132413	NW_004516871.1	scaffold1751	132413	TT	AA	AA	INTERGENIC			
SNP_99748_A_135030	NW_004516871.1	scaffold1751	135030	CC	TT	TT	INTERGENIC			
SNP_99749_A_144109	NW_004516871.1	scaffold1751	144109	CC	GG	GG	INTERGENIC			
SNP_99750_A_144140	NW_004516871.1	scaffold1751	144140	GG	CC	CC	INTERGENIC			
SNP_99751_A_144150	NW_004516871.1	scaffold1751	144150	CC	AA	AA	INTERGENIC			
SNP_99752_A_144151	NW_004516871.1	scaffold1751	144151	AA	CC	CC	INTERGENIC			
SNP_99753_A_144181	NW_004516871.1	scaffold1751	144181	AA	GG	GG	INTERGENIC			
SNP_99754_A_144186	NW_004516871.1	scaffold1751	144186	GG	TT	TT	INTERGENIC			
SNP_99755_A_144228	NW_004516871.1	scaffold1751	144228	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99756_A_144287	NW_004516871.1	scaffold1751	144287	GG	AA	AA	INTERGENIC			
SNP_99757_A_144328	NW_004516871.1	scaffold1751	144328	AA	CC	CC	INTERGENIC			
SNP_99758_A_155033	NW_004516871.1	scaffold1751	155033	GG	AA	AA	INTERGENIC			
SNP_99759_A_158857	NW_004516871.1	scaffold1751	158857	AA	CC	CC	INTERGENIC			
SNP_99760_A_159199	NW_004516871.1	scaffold1751	159199	GG	TT	TT	INTERGENIC			
SNP_99761_A_159208	NW_004516871.1	scaffold1751	159208	GG	TT	TT	INTERGENIC			
SNP_99762_A_159227	NW_004516871.1	scaffold1751	159227	GG	AA	AA	INTERGENIC			
SNP_99763_A_165790	NW_004516871.1	scaffold1751	165790	AA	GG	GG	INTERGENIC			
SNP_99764_A_167160	NW_004516871.1	scaffold1751	167160	TT	AA	AA	INTERGENIC			
SNP_99765_A_167162	NW_004516871.1	scaffold1751	167162	CC	TT	TT	INTERGENIC			
SNP_99766_A_167169	NW_004516871.1	scaffold1751	167169	AA	GG	GG	INTERGENIC			
SNP_99767_A_167171	NW_004516871.1	scaffold1751	167171	TT	CC	CC	INTERGENIC			
SNP_99768_A_167895	NW_004516871.1	scaffold1751	167895	TT	AA	AA	INTERGENIC			
SNP_99769_A_193883	NW_004516871.1	scaffold1751	193883	AA	CC	CC	INTERGENIC			
SNP_99770_A_194192	NW_004516871.1	scaffold1751	194192	GG	AA	AA	INTERGENIC			
SNP_99771_A_194210	NW_004516871.1	scaffold1751	194210	AA	GG	GG	INTERGENIC			
SNP_99772_A_194531	NW_004516871.1	scaffold1751	194531	CC	AA	AA	INTERGENIC			
SNP_99773_A_267690	NW_004516871.1	scaffold1751	267690	AA	TT	TT	INTERGENIC			
SNP_99774_A_267707	NW_004516871.1	scaffold1751	267707	GG	AA	AA	INTERGENIC			
SNP_99775_A_267717	NW_004516871.1	scaffold1751	267717	AA	TT	TT	INTERGENIC			
SNP_99776_A_305978	NW_004516871.1	scaffold1751	305978	CC	TT	TT	INTERGENIC			
SNP_99777_A_346699	NW_004516871.1	scaffold1751	346699	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99778_A_362158	NW_004516871.1	scaffold1751	362158	AA	GG	GG	INTRON	101511120	uncharacterized LOC101511120
SNP_99779_A_378844	NW_004516871.1	scaffold1751	378844	CC	AA	AA	INTERGENIC		
SNP_99780_A_390504	NW_004516871.1	scaffold1751	390504	GG	AA	AA	INTERGENIC		
SNP_99781_A_390537	NW_004516871.1	scaffold1751	390537	AA	GG	GG	INTERGENIC		
SNP_99782_A_423682	NW_004516871.1	scaffold1751	423682	CC	TT	TT	INTERGENIC		
SNP_99783_A_423736	NW_004516871.1	scaffold1751	423736	TT	CC	CC	INTERGENIC		
SNP_99784_A_425043	NW_004516871.1	scaffold1751	425043	AA	TT	TT	INTERGENIC		
SNP_99785_A_425066	NW_004516871.1	scaffold1751	425066	AA	GG	GG	INTERGENIC		
SNP_99786_A_425160	NW_004516871.1	scaffold1751	425160	TT	CC	CC	INTERGENIC		
SNP_99787_A_448512	NW_004516871.1	scaffold1751	448512	TT	GG	GG	INTERGENIC		
SNP_99788_A_448976	NW_004516871.1	scaffold1751	448976	AA	GG	GG	INTERGENIC		
SNP_99789_A_448991	NW_004516871.1	scaffold1751	448991	GG	AA	AA	INTERGENIC		
SNP_99790_A_449013	NW_004516871.1	scaffold1751	449013	AA	TT	TT	INTERGENIC		
SNP_99791_A_449089	NW_004516871.1	scaffold1751	449089	CC	TT	TT	INTERGENIC		
SNP_99792_A_471803	NW_004516871.1	scaffold1751	471803	AA	GG	GG	INTERGENIC		
SNP_99793_A_494403	NW_004516871.1	scaffold1751	494403	AA	GG	GG	INTERGENIC		
SNP_99794_A_497112	NW_004516871.1	scaffold1751	497112	TT	CC	CC	INTERGENIC		
SNP_99795_A_497392	NW_004516871.1	scaffold1751	497392	TT	GG	GG	INTERGENIC		
SNP_99796_A_510293	NW_004516871.1	scaffold1751	510293	AA	GG	GG	INTERGENIC		
SNP_99797_A_624296	NW_004516871.1	scaffold1751	624296	GG	CC	CC	INTERGENIC		
SNP_99799_A_624724	NW_004516871.1	scaffold1751	624724	GG	CC	CC	INTERGENIC		
SNP_99800_A_624737	NW_004516871.1	scaffold1751	624737	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99801_A_631254	NW_004516871.1	scaffold1751	631254	CC	TT	TT	INTERGENIC			
SNP_99802_A_631455	NW_004516871.1	scaffold1751	631455	AA	GG	GG	INTERGENIC			
SNP_99803_A_631505	NW_004516871.1	scaffold1751	631505	AA	GG	GG	INTERGENIC			
SNP_99804_A_631894	NW_004516871.1	scaffold1751	631894	TT	AA	AA	INTERGENIC			
SNP_99805_A_632104	NW_004516871.1	scaffold1751	632104	GG	AA	AA	INTERGENIC			
SNP_99806_A_632356	NW_004516871.1	scaffold1751	632356	TT	CC	CC	INTERGENIC			
SNP_99807_A_632720	NW_004516871.1	scaffold1751	632720	GG	AA	AA	INTERGENIC			
SNP_99808_A_396	NW_004516872.1	scaffold1752	396	GG	CC	CC	INTERGENIC			
SNP_99809_A_4845	NW_004516873.1	scaffold1754	4845	TT	CC	CC	INTERGENIC			
SNP_99810_A_4919	NW_004516873.1	scaffold1754	4919	TT	GG	GG	INTERGENIC			
SNP_99811_A_5212	NW_004516873.1	scaffold1754	5212	CC	TT	TT	INTERGENIC			
SNP_99812_A_5233	NW_004516873.1	scaffold1754	5233	TT	GG	GG	INTERGENIC			
SNP_99813_A_5534	NW_004516873.1	scaffold1754	5534	AA	GG	GG	INTERGENIC			
SNP_99814_A_5556	NW_004516873.1	scaffold1754	5556	GG	AA	AA	INTERGENIC			
SNP_99815_A_6397	NW_004516873.1	scaffold1754	6397	TT	GG	GG	INTERGENIC			
SNP_99816_A_6491	NW_004516873.1	scaffold1754	6491	TT	AA	AA	INTERGENIC			
SNP_99817_A_6514	NW_004516873.1	scaffold1754	6514	CC	TT	TT	INTERGENIC			
SNP_99818_A_6716	NW_004516873.1	scaffold1754	6716	TT	GG	GG	INTERGENIC			
SNP_99819_A_6939	NW_004516873.1	scaffold1754	6939	GG	TT	TT	INTERGENIC			
SNP_99820_A_6963	NW_004516873.1	scaffold1754	6963	AA	CC	CC	INTERGENIC			
SNP_99821_A_6972	NW_004516873.1	scaffold1754	6972	GG	AA	AA	INTERGENIC			
SNP_99822_A_166	NW_004516874.1	scaffold1755	166	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99823_A_10460	NW_004516874.1	scaffold1755	10460	GG	AA	AA	INTERGENIC		
SNP_99824_A_10487	NW_004516874.1	scaffold1755	10487	AA	TT	TT	INTERGENIC		
SNP_99825_A_13493	NW_004516874.1	scaffold1755	13493	TT	AA	AA	INTERGENIC		
SNP_99826_A_13500	NW_004516874.1	scaffold1755	13500	TT	CC	CC	INTERGENIC		
SNP_99827_A_24017	NW_004516874.1	scaffold1755	24017	TT	GG	GG	URR	101512301	Unknown function
SNP_99828_A_33107	NW_004516874.1	scaffold1755	33107	GG	TT	TT	INTERGENIC		
SNP_99829_A_33270	NW_004516874.1	scaffold1755	33270	TT	CC	CC	INTERGENIC		
SNP_99830_A_33499	NW_004516874.1	scaffold1755	33499	GG	AA	AA	INTERGENIC		
SNP_99831_A_33554	NW_004516874.1	scaffold1755	33554	TT	CC	CC	INTERGENIC		
SNP_99832_A_41384	NW_004516874.1	scaffold1755	41384	TT	GG	GG	INTERGENIC		
SNP_99833_A_41385	NW_004516874.1	scaffold1755	41385	AA	TT	TT	INTERGENIC		
SNP_99834_A_41404	NW_004516874.1	scaffold1755	41404	GG	AA	AA	INTERGENIC		
SNP_99835_A_66035	NW_004516874.1	scaffold1755	66035	GG	AA	AA	INTERGENIC		
SNP_99836_A_126183	NW_004516874.1	scaffold1755	126183	AA	TT	TT	INTERGENIC		
SNP_99837_A_126388	NW_004516874.1	scaffold1755	126388	AA	CC	CC	INTERGENIC		
SNP_99838_A_126685	NW_004516874.1	scaffold1755	126685	TT	AA	AA	INTERGENIC		
SNP_99839_A_126750	NW_004516874.1	scaffold1755	126750	TT	CC	CC	INTERGENIC		
SNP_99840_A_126796	NW_004516874.1	scaffold1755	126796	CC	TT	TT	INTERGENIC		
SNP_99841_A_126805	NW_004516874.1	scaffold1755	126805	AA	CC	CC	INTERGENIC		
SNP_99842_A_128707	NW_004516874.1	scaffold1755	128707	CC	TT	TT	INTERGENIC		
SNP_99844_A_128794	NW_004516874.1	scaffold1755	128794	AA	GG	GG	INTERGENIC		
SNP_99845_A_128875	NW_004516874.1	scaffold1755	128875	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99846_A_129030	NW_004516874.1	scaffold1755	129030	AA	GG	GG	INTERGENIC			
SNP_99847_A_129036	NW_004516874.1	scaffold1755	129036	TT	AA	AA	INTERGENIC			
SNP_99848_A_129054	NW_004516874.1	scaffold1755	129054	TT	CC	CC	INTERGENIC			
SNP_99849_A_129077	NW_004516874.1	scaffold1755	129077	AA	CC	CC	INTERGENIC			
SNP_99850_A_129084	NW_004516874.1	scaffold1755	129084	TT	GG	GG	INTERGENIC			
SNP_99852_A_129093	NW_004516874.1	scaffold1755	129093	CC	GG	GG	INTERGENIC			
SNP_99853_A_129130	NW_004516874.1	scaffold1755	129130	AA	GG	GG	INTERGENIC			
SNP_99855_A_165	NW_004516875.1	scaffold1756	165	GG	AA	AA	INTERGENIC			
SNP_99856_A_172	NW_004516875.1	scaffold1756	172	TT	GG	GG	INTERGENIC			
SNP_99857_A_372	NW_004516875.1	scaffold1756	372	GG	AA	AA	INTERGENIC			
SNP_99858_A_922	NW_004516875.1	scaffold1756	922	TT	AA	AA	INTERGENIC			
SNP_99859_A_937	NW_004516875.1	scaffold1756	937	GG	TT	TT	INTERGENIC			
SNP_99860_A_974	NW_004516875.1	scaffold1756	974	CC	TT	TT	INTERGENIC			
SNP_99861_A_1351	NW_004516875.1	scaffold1756	1351	GG	AA	AA	INTERGENIC			
SNP_99862_A_4095	NW_004516875.1	scaffold1756	4095	CC	GG	GG	INTERGENIC			
SNP_99863_A_4677	NW_004516875.1	scaffold1756	4677	GG	AA	AA	INTERGENIC			
SNP_99864_A_4787	NW_004516875.1	scaffold1756	4787	GG	AA	AA	INTERGENIC			
SNP_99865_A_5156	NW_004516875.1	scaffold1756	5156	CC	TT	TT	INTERGENIC			
SNP_99867_A_6600	NW_004516875.1	scaffold1756	6600	CC	TT	TT	INTERGENIC			
SNP_99869_A_78372	NW_004516875.1	scaffold1756	78372	GG	AA	AA	INTRON	101512942	DNA-directed RNA polymerases IV and V subunit 5B-like	
SNP_99870_A_86108	NW_004516875.1	scaffold1756	86108	CC	AA	AA	INTERGENIC			
SNP_99871_A_86525	NW_004516875.1	scaffold1756	86525	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99872_A_86544	NW_004516875.1	scaffold1756	86544	AA	GG	GG	INTERGENIC			
SNP_99873_A_520	NW_004516876.1	scaffold1757	520	TT	CC	CC	INTERGENIC			
SNP_99874_A_796	NW_004516876.1	scaffold1757	796	AA	CC	CC	INTERGENIC			
SNP_99876_A_1271	NW_004516876.1	scaffold1757	1271	GG	AA	AA	INTERGENIC			
SNP_99877_A_1272	NW_004516876.1	scaffold1757	1272	CC	TT	TT	INTERGENIC			
SNP_99878_A_1306	NW_004516876.1	scaffold1757	1306	AA	TT	TT	INTERGENIC			
SNP_99879_A_1307	NW_004516876.1	scaffold1757	1307	TT	AA	AA	INTERGENIC			
SNP_99880_A_1863	NW_004516876.1	scaffold1757	1863	TT	AA	AA	INTERGENIC			
SNP_99881_A_1938	NW_004516876.1	scaffold1757	1938	TT	GG	GG	INTERGENIC			
SNP_99882_A_1946	NW_004516876.1	scaffold1757	1946	CC	TT	TT	INTERGENIC			
SNP_99883_A_2092	NW_004516876.1	scaffold1757	2092	AA	CC	CC	INTERGENIC			
SNP_99884_A_2123	NW_004516876.1	scaffold1757	2123	GG	AA	AA	INTERGENIC			
SNP_99885_A_2178	NW_004516876.1	scaffold1757	2178	AA	TT	TT	INTERGENIC			
SNP_99886_A_2372	NW_004516876.1	scaffold1757	2372	AA	GG	GG	INTERGENIC			
SNP_99887_A_2406	NW_004516876.1	scaffold1757	2406	TT	AA	AA	INTERGENIC			
SNP_99888_A_16415	NW_004516876.1	scaffold1757	16415	TT	CC	CC	INTERGENIC			
SNP_99889_A_16418	NW_004516876.1	scaffold1757	16418	TT	CC	CC	INTERGENIC			
SNP_99890_A_16538	NW_004516876.1	scaffold1757	16538	TT	CC	CC	INTERGENIC			
SNP_99891_A_16576	NW_004516876.1	scaffold1757	16576	AA	GG	GG	INTERGENIC			
SNP_99892_A_16840	NW_004516876.1	scaffold1757	16840	TT	AA	AA	INTERGENIC			
SNP_99893_A_27829	NW_004516876.1	scaffold1757	27829	CC	AA	AA	INTERGENIC			
SNP_99894_A_31732	NW_004516876.1	scaffold1757	31732	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99895_A_31742	NW_004516876.1	scaffold1757	31742	TT	AA	AA	INTERGENIC		
SNP_99897_A_62362	NW_004516876.1	scaffold1757	62362	CC	TT	TT	INTRON	101514258	cucumis-in-like
SNP_99899_A_151638	NW_004516876.1	scaffold1757	151638	CC	TT	TT	NON_SYNONYMOUS_CODING	101515545	cucumis-in-like
SNP_99900_A_151841	NW_004516876.1	scaffold1757	151841	CC	AA	AA	INTRON	101515545	cucumis-in-like
SNP_99901_A_1099	NW_004516877.1	scaffold1761	1099	CC	TT	TT	INTERGENIC		
SNP_99902_A_3883	NW_004516877.1	scaffold1761	3883	TT	CC	CC	INTERGENIC		
SNP_99903_A_3909	NW_004516877.1	scaffold1761	3909	CC	TT	TT	INTERGENIC		
SNP_99904_A_3915	NW_004516877.1	scaffold1761	3915	AA	CC	CC	INTERGENIC		
SNP_99905_A_3923	NW_004516877.1	scaffold1761	3923	GG	TT	TT	INTERGENIC		
SNP_99906_A_4005	NW_004516877.1	scaffold1761	4005	AA	CC	CC	INTERGENIC		
SNP_99907_A_4014	NW_004516877.1	scaffold1761	4014	TT	CC	CC	INTERGENIC		
SNP_99908_A_4262	NW_004516877.1	scaffold1761	4262	CC	AA	AA	INTERGENIC		
SNP_99909_A_4266	NW_004516877.1	scaffold1761	4266	AA	CC	CC	INTERGENIC		
SNP_99910_A_4284	NW_004516877.1	scaffold1761	4284	GG	TT	TT	INTERGENIC		
SNP_99911_A_4294	NW_004516877.1	scaffold1761	4294	TT	CC	CC	INTERGENIC		
SNP_99912_A_4352	NW_004516877.1	scaffold1761	4352	TT	AA	AA	INTERGENIC		
SNP_99913_A_10869	NW_004516877.1	scaffold1761	10869	AA	GG	GG	INTERGENIC		
SNP_99914_A_10919	NW_004516877.1	scaffold1761	10919	CC	TT	TT	INTERGENIC		
SNP_99915_A_11075	NW_004516877.1	scaffold1761	11075	AA	CC	CC	INTERGENIC		
SNP_99916_A_11170	NW_004516877.1	scaffold1761	11170	AA	TT	TT	INTERGENIC		
SNP_99917_A_11320	NW_004516877.1	scaffold1761	11320	TT	CC	CC	INTERGENIC		
SNP_99918_A_11372	NW_004516877.1	scaffold1761	11372	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_99919_A_11415	NW_004516877.1	scaffold1761	11415	TT	AA	AA	INTERGENIC		
SNP_99920_A_16761	NW_004516877.1	scaffold1761	16761	TT	AA	AA	INTERGENIC		
SNP_99921_A_30289	NW_004516877.1	scaffold1761	30289	AA	TT	TT	INTERGENIC		
SNP_99922_A_41510	NW_004516877.1	scaffold1761	41510	GG	AA	AA	URR	101488298	E3 ubiquitin-protein ligase CCNB1P1 homolog
SNP_99923_A_58383	NW_004516877.1	scaffold1761	58383	CC	GG	GG	INTERGENIC		
SNP_99925_A_2220	NW_004516879.1	scaffold1763	2220	CC	TT	TT	INTERGENIC		
SNP_99926_A_2625	NW_004516879.1	scaffold1763	2625	AA	GG	GG	INTERGENIC		
SNP_99927_A_3067	NW_004516879.1	scaffold1763	3067	TT	AA	AA	INTERGENIC		
SNP_99928_A_3073	NW_004516879.1	scaffold1763	3073	GG	TT	TT	INTERGENIC		
SNP_99929_A_8481	NW_004516879.1	scaffold1763	8481	TT	CC	CC	INTERGENIC		
SNP_99930_A_10578	NW_004516879.1	scaffold1763	10578	AA	CC	TT	INTERGENIC		
SNP_99931_A_10595	NW_004516879.1	scaffold1763	10595	AA	CC	CC	INTERGENIC		
SNP_99932_A_10632	NW_004516879.1	scaffold1763	10632	AA	GG	GG	INTERGENIC		
SNP_99933_A_19194	NW_004516879.1	scaffold1763	19194	TT	CC	CC	INTERGENIC		
SNP_99934_A_19425	NW_004516879.1	scaffold1763	19425	AA	CC	CC	INTERGENIC		
SNP_99935_A_19459	NW_004516879.1	scaffold1763	19459	TT	AA	AA	INTERGENIC		
SNP_99936_A_19460	NW_004516879.1	scaffold1763	19460	CC	AA	AA	INTERGENIC		
SNP_99937_A_19461	NW_004516879.1	scaffold1763	19461	AA	CC	CC	INTERGENIC		
SNP_99938_A_690	NW_004516880.1	scaffold1767	690	TT	CC	CC	INTERGENIC		
SNP_99939_A_814	NW_004516880.1	scaffold1767	814	GG	TT	TT	INTERGENIC		
SNP_99940_A_1306	NW_004516880.1	scaffold1767	1306	AA	CC	CC	INTERGENIC		
SNP_99941_A_6091	NW_004516880.1	scaffold1767	6091	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99942_A_6920	NW_004516880.1	scaffold1767	6920	AA	GG	GG	INTERGENIC			
SNP_99943_A_7161	NW_004516880.1	scaffold1767	7161	GG	AA	AA	INTERGENIC			
SNP_99944_A_8910	NW_004516880.1	scaffold1767	8910	TT	CC	CC	INTERGENIC			
SNP_99945_A_8923	NW_004516880.1	scaffold1767	8923	GG	AA	AA	INTERGENIC			
SNP_99946_A_11868	NW_004516880.1	scaffold1767	11868	AA	TT	TT	INTERGENIC			
SNP_99947_A_16716	NW_004516880.1	scaffold1767	16716	GG	AA	AA	INTERGENIC			
SNP_99948_A_18059	NW_004516880.1	scaffold1767	18059	AA	GG	GG	INTERGENIC			
SNP_99949_A_18071	NW_004516880.1	scaffold1767	18071	TT	GG	GG	INTERGENIC			
SNP_99950_A_25238	NW_004516880.1	scaffold1767	25238	TT	GG	GG	INTERGENIC			
SNP_99951_A_32310	NW_004516880.1	scaffold1767	32310	AA	TT	TT	INTERGENIC			
SNP_99952_A_36710	NW_004516880.1	scaffold1767	36710	CC	TT	TT	INTERGENIC			
SNP_99953_A_38658	NW_004516880.1	scaffold1767	38658	AA	GG	GG	INTERGENIC			
SNP_99954_A_68497	NW_004516880.1	scaffold1767	68497	CC	AA	AA	INTERGENIC			
SNP_99955_A_316	NW_004516881.1	scaffold1768	316	GG	TT	TT	INTERGENIC			
SNP_99956_A_619	NW_004516881.1	scaffold1768	619	CC	TT	TT	INTERGENIC			
SNP_99957_A_1467	NW_004516881.1	scaffold1768	1467	CC	TT	TT	INTERGENIC			
SNP_99958_A_1522	NW_004516881.1	scaffold1768	1522	CC	TT	TT	INTERGENIC			
SNP_99959_A_1548	NW_004516881.1	scaffold1768	1548	AA	GG	GG	INTERGENIC			
SNP_99960_A_1873	NW_004516881.1	scaffold1768	1873	GG	AA	AA	INTERGENIC			
SNP_99961_A_1894	NW_004516881.1	scaffold1768	1894	TT	GG	GG	INTERGENIC			
SNP_99962_A_10217	NW_004516881.1	scaffold1768	10217	AA	CC	CC	INTERGENIC			
SNP_99963_A_10240	NW_004516881.1	scaffold1768	10240	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99964_A_12690	NW_004516881.1	scaffold1768	12690	AA	CC	CC	INTERGENIC			
SNP_99965_A_12772	NW_004516881.1	scaffold1768	12772	CC	AA	AA	INTERGENIC			
SNP_99967_A_13108	NW_004516881.1	scaffold1768	13108	GG	CC	CC	INTERGENIC			
SNP_99968_A_15493	NW_004516881.1	scaffold1768	15493	AA	GG	GG	INTERGENIC			
SNP_99969_A_29747	NW_004516881.1	scaffold1768	29747	AA	CC	CC	INTERGENIC			
SNP_99970_A_29849	NW_004516881.1	scaffold1768	29849	GG	AA	AA	INTERGENIC			
SNP_99971_A_29893	NW_004516881.1	scaffold1768	29893	GG	AA	AA	INTERGENIC			
SNP_99972_A_29901	NW_004516881.1	scaffold1768	29901	TT	CC	CC	INTERGENIC			
SNP_99973_A_29969	NW_004516881.1	scaffold1768	29969	CC	GG	GG	INTERGENIC			
SNP_99974_A_38125	NW_004516881.1	scaffold1768	38125	GG	AA	AA	INTERGENIC			
SNP_99975_A_38165	NW_004516881.1	scaffold1768	38165	TT	AA	AA	INTERGENIC			
SNP_99976_A_3377	NW_004516882.1	scaffold1769	3377	GG	AA	AA	INTERGENIC			
SNP_99977_A_3407	NW_004516882.1	scaffold1769	3407	AA	GG	GG	INTERGENIC			
SNP_99978_A_3705	NW_004516882.1	scaffold1769	3705	TT	AA	AA	INTERGENIC			
SNP_99979_A_3724	NW_004516882.1	scaffold1769	3724	AA	TT	TT	INTERGENIC			
SNP_99980_A_5886	NW_004516884.1	scaffold1771	5886	TT	CC	CC	INTERGENIC			
SNP_99981_A_5896	NW_004516884.1	scaffold1771	5896	TT	CC	CC	INTERGENIC			
SNP_99982_A_5905	NW_004516884.1	scaffold1771	5905	GG	AA	AA	INTERGENIC			
SNP_99983_A_5923	NW_004516884.1	scaffold1771	5923	CC	TT	TT	INTERGENIC			
SNP_99984_A_5941	NW_004516884.1	scaffold1771	5941	TT	CC	CC	INTERGENIC			
SNP_99985_A_6894	NW_004516884.1	scaffold1771	6894	CC	TT	TT	INTERGENIC			
SNP_99986_A_6902	NW_004516884.1	scaffold1771	6902	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_99987_A_7083	NW_004516884.1	scaffold1771	7083	TT	CC	CC	INTERGENIC			
SNP_99988_A_7104	NW_004516884.1	scaffold1771	7104	GG	TT	TT	INTERGENIC			
SNP_99989_A_15808	NW_004516884.1	scaffold1771	15808	AA	TT	TT	INTERGENIC			
SNP_99990_A_24289	NW_004516884.1	scaffold1771	24289	TT	GG	GG	INTERGENIC			
SNP_99991_A_35281	NW_004516884.1	scaffold1771	35281	GG	AA	AA	INTERGENIC			
SNP_99993_A_83455	NW_004516884.1	scaffold1771	83455	CC	TT	TT	INTERGENIC			
SNP_99994_A_83491	NW_004516884.1	scaffold1771	83491	AA	GG	GG	INTERGENIC			
SNP_99995_A_131466	NW_004516884.1	scaffold1771	131466	CC	TT	TT	INTERGENIC			
SNP_99996_A_847	NW_004516886.1	scaffold1773	847	TT	AA	AA	INTERGENIC			
SNP_99997_A_2942	NW_004516886.1	scaffold1773	2942	CC	TT	TT	INTERGENIC			
SNP_99998_A_3311	NW_004516886.1	scaffold1773	3311	TT	GG	GG	INTERGENIC			
SNP_99999_A_4498	NW_004516886.1	scaffold1773	4498	TT	CC	CC	INTERGENIC			
SNP_100000_A_4827	NW_004516886.1	scaffold1773	4827	TT	CC	CC	INTERGENIC			
SNP_100001_A_5390	NW_004516886.1	scaffold1773	5390	GG	TT	TT	INTERGENIC			
SNP_100002_A_6884	NW_004516886.1	scaffold1773	6884	CC	AA	AA	INTERGENIC			
SNP_100003_A_6917	NW_004516886.1	scaffold1773	6917	AA	GG	GG	INTERGENIC			
SNP_100004_A_8102	NW_004516886.1	scaffold1773	8102	AA	TT	TT	INTERGENIC			
SNP_100005_A_8644	NW_004516886.1	scaffold1773	8644	AA	GG	GG	INTERGENIC			
SNP_100006_A_8762	NW_004516886.1	scaffold1773	8762	AA	TT	TT	INTERGENIC			
SNP_100007_A_8778	NW_004516886.1	scaffold1773	8778	AA	GG	GG	INTERGENIC			
SNP_100008_A_8779	NW_004516886.1	scaffold1773	8779	AA	GG	GG	INTERGENIC			
SNP_100009_A_8782	NW_004516886.1	scaffold1773	8782	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100010_A_9108	NW_004516886.1	scaffold1773	9108	AA	TT	TT	INTERGENIC			
SNP_100011_A_9721	NW_004516886.1	scaffold1773	9721	TT	AA	AA	INTERGENIC			
SNP_100012_A_9876	NW_004516886.1	scaffold1773	9876	TT	AA	AA	INTERGENIC			
SNP_100013_A_10032	NW_004516886.1	scaffold1773	10032	CC	TT	TT	INTERGENIC			
SNP_100015_A_10551	NW_004516886.1	scaffold1773	10551	TT	CC	CC	INTERGENIC			
SNP_100016_A_10552	NW_004516886.1	scaffold1773	10552	CC	AA	AA	INTERGENIC			
SNP_100017_A_10555	NW_004516886.1	scaffold1773	10555	AA	GG	GG	INTERGENIC			
SNP_100018_A_13397	NW_004516886.1	scaffold1773	13397	TT	AA	AA	INTERGENIC			
SNP_100019_A_14182	NW_004516886.1	scaffold1773	14182	GG	AA	AA	INTERGENIC			
SNP_100020_A_15954	NW_004516886.1	scaffold1773	15954	TT	CC	CC	INTERGENIC			
SNP_100021_A_16001	NW_004516886.1	scaffold1773	16001	AA	TT	TT	INTERGENIC			
SNP_100022_A_16224	NW_004516886.1	scaffold1773	16224	GG	TT	TT	INTERGENIC			
SNP_100023_A_16309	NW_004516886.1	scaffold1773	16309	GG	AA	AA	INTERGENIC			
SNP_100024_A_16316	NW_004516886.1	scaffold1773	16316	AA	TT	TT	INTERGENIC			
SNP_100025_A_16390	NW_004516886.1	scaffold1773	16390	AA	GG	GG	INTERGENIC			
SNP_100026_A_16537	NW_004516886.1	scaffold1773	16537	TT	CC	CC	INTERGENIC			
SNP_100027_A_17822	NW_004516886.1	scaffold1773	17822	GG	AA	AA	INTERGENIC			
SNP_100028_A_18104	NW_004516886.1	scaffold1773	18104	CC	GG	GG	INTERGENIC			
SNP_100029_A_18124	NW_004516886.1	scaffold1773	18124	AA	TT	TT	INTERGENIC			
SNP_100030_A_18171	NW_004516886.1	scaffold1773	18171	CC	AA	AA	INTERGENIC			
SNP_100031_A_18172	NW_004516886.1	scaffold1773	18172	CC	TT	TT	INTERGENIC			
SNP_100032_A_19317	NW_004516886.1	scaffold1773	19317	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100033_A_19329	NW_004516886.1	scaffold1773	19329	TT	AA	AA	INTERGENIC			
SNP_100034_A_19344	NW_004516886.1	scaffold1773	19344	TT	CC	CC	INTERGENIC			
SNP_100035_A_19348	NW_004516886.1	scaffold1773	19348	GG	AA	AA	INTERGENIC			
SNP_100036_A_19359	NW_004516886.1	scaffold1773	19359	TT	AA	AA	INTERGENIC			
SNP_100037_A_21724	NW_004516886.1	scaffold1773	21724	TT	GG	GG	INTERGENIC			
SNP_100038_A_21739	NW_004516886.1	scaffold1773	21739	CC	TT	TT	INTERGENIC			
SNP_100039_A_26029	NW_004516886.1	scaffold1773	26029	AA	GG	GG	INTERGENIC			
SNP_100040_A_26089	NW_004516886.1	scaffold1773	26089	AA	GG	GG	INTERGENIC			
SNP_100041_A_26107	NW_004516886.1	scaffold1773	26107	CC	AA	AA	INTERGENIC			
SNP_100042_A_28407	NW_004516886.1	scaffold1773	28407	CC	TT	TT	INTERGENIC			
SNP_100043_A_28982	NW_004516886.1	scaffold1773	28982	CC	TT	TT	INTERGENIC			
SNP_100044_A_30071	NW_004516886.1	scaffold1773	30071	GG	CC	CC	INTERGENIC			
SNP_100045_A_31139	NW_004516886.1	scaffold1773	31139	AA	GG	GG	INTERGENIC			
SNP_100046_A_32977	NW_004516886.1	scaffold1773	32977	CC	TT	TT	INTERGENIC			
SNP_100047_A_33041	NW_004516886.1	scaffold1773	33041	CC	AA	AA	INTERGENIC			
SNP_100048_A_33955	NW_004516886.1	scaffold1773	33955	AA	TT	TT	INTERGENIC			
SNP_100049_A_35303	NW_004516886.1	scaffold1773	35303	CC	TT	TT	INTERGENIC			
SNP_100050_A_35438	NW_004516886.1	scaffold1773	35438	TT	CC	CC	INTERGENIC			
SNP_100051_A_35543	NW_004516886.1	scaffold1773	35543	GG	AA	AA	INTERGENIC			
SNP_100052_A_35674	NW_004516886.1	scaffold1773	35674	TT	CC	CC	INTERGENIC			
SNP_100053_A_40890	NW_004516886.1	scaffold1773	40890	GG	AA	AA	INTERGENIC			
SNP_100054_A_49140	NW_004516886.1	scaffold1773	49140	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100055_A_6197	NW_004516888.1	scaffold1776	6197	CC	TT	TT	INTERGENIC			
SNP_100056_A_16234	NW_004516888.1	scaffold1776	16234	TT	CC	CC	INTERGENIC			
SNP_100057_A_16283	NW_004516888.1	scaffold1776	16283	AA	CC	CC	INTERGENIC			
SNP_100058_A_16309	NW_004516888.1	scaffold1776	16309	AA	GG	GG	INTERGENIC			
SNP_100059_A_16317	NW_004516888.1	scaffold1776	16317	TT	CC	CC	INTERGENIC			
SNP_100060_A_16515	NW_004516888.1	scaffold1776	16515	TT	CC	CC	INTERGENIC			
SNP_100061_A_16544	NW_004516888.1	scaffold1776	16544	TT	CC	CC	INTERGENIC			
SNP_100062_A_23437	NW_004516888.1	scaffold1776	23437	TT	AA	AA	INTERGENIC			
SNP_100063_A_23855	NW_004516888.1	scaffold1776	23855	GG	CC	CC	INTERGENIC			
SNP_100064_A_25466	NW_004516888.1	scaffold1776	25466	AA	TT	TT	INTERGENIC			
SNP_100065_A_26660	NW_004516888.1	scaffold1776	26660	AA	TT	TT	INTERGENIC			
SNP_100066_A_27256	NW_004516888.1	scaffold1776	27256	GG	TT	TT	INTERGENIC			
SNP_100067_A_27277	NW_004516888.1	scaffold1776	27277	TT	CC	CC	INTERGENIC			
SNP_100068_A_27788	NW_004516888.1	scaffold1776	27788	CC	TT	TT	INTERGENIC			
SNP_100069_A_18119	NW_004516889.1	scaffold1777	18119	CC	TT	TT	INTERGENIC			
SNP_100070_A_22254	NW_004516889.1	scaffold1777	22254	CC	GG	GG	INTERGENIC			
SNP_100071_A_22306	NW_004516889.1	scaffold1777	22306	AA	GG	GG	INTERGENIC			
SNP_100072_A_22385	NW_004516889.1	scaffold1777	22385	TT	AA	AA	INTERGENIC			
SNP_100073_A_22444	NW_004516889.1	scaffold1777	22444	AA	TT	TT	INTERGENIC			
SNP_100074_A_22451	NW_004516889.1	scaffold1777	22451	GG	AA	AA	INTERGENIC			
SNP_100075_A_22626	NW_004516889.1	scaffold1777	22626	AA	GG	GG	INTERGENIC			
SNP_100076_A_22809	NW_004516889.1	scaffold1777	22809	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100077_A_22844	NW_004516889.1	scaffold1777	22844	TT	CC	CC	INTERGENIC		
SNP_100078_A_22857	NW_004516889.1	scaffold1777	22857	TT	CC	CC	INTERGENIC		
SNP_100079_A_22873	NW_004516889.1	scaffold1777	22873	GG	CC	CC	INTERGENIC		
SNP_100081_A_70396	NW_004516889.1	scaffold1777	70396	CC	TT	TT	INTERGENIC		
SNP_100082_A_104197	NW_004516889.1	scaffold1777	104197	GG	AA	AA	INTERGENIC		
SNP_100083_A_104242	NW_004516889.1	scaffold1777	104242	CC	TT	TT	INTERGENIC		
SNP_100084_A_104295	NW_004516889.1	scaffold1777	104295	CC	TT	TT	INTERGENIC		
SNP_100085_A_105193	NW_004516889.1	scaffold1777	105193	GG	AA	AA	INTERGENIC		
SNP_100086_A_105197	NW_004516889.1	scaffold1777	105197	AA	GG	GG	INTERGENIC		
SNP_100087_A_113313	NW_004516889.1	scaffold1777	113313	TT	CC	CC	INTERGENIC		
SNP_100088_A_114217	NW_004516889.1	scaffold1777	114217	TT	GG	GG	DRR	101494781	probable calcium-binding protein CML22
SNP_100089_A_114287	NW_004516889.1	scaffold1777	114287	TT	CC	CC	DRR	101494781	probable calcium-binding protein CML22
SNP_100090_A_114314	NW_004516889.1	scaffold1777	114314	CC	GG	GG	DRR	101494781	probable calcium-binding protein CML22
SNP_100091_A_114358	NW_004516889.1	scaffold1777	114358	CC	TT	TT	DRR	101494781	probable calcium-binding protein CML22
SNP_100092_A_147376	NW_004516889.1	scaffold1777	147376	CC	GG	GG	INTERGENIC		
SNP_100093_A_182099	NW_004516889.1	scaffold1777	182099	GG	TT	TT	URR	101495112	Unknown function
SNP_100094_A_186979	NW_004516889.1	scaffold1777	186979	GG	AA	AA	INTERGENIC		
SNP_100096_A_282895	NW_004516889.1	scaffold1777	282895	GG	AA	AA	URR	101491973	SNF2 domain-containing protein CLASSY 4
SNP_100097_A_340032	NW_004516889.1	scaffold1777	340032	CC	TT	TT	INTERGENIC		
SNP_100098_A_340048	NW_004516889.1	scaffold1777	340048	TT	CC	CC	INTERGENIC		
SNP_100099_A_340054	NW_004516889.1	scaffold1777	340054	TT	GG	GG	INTERGENIC		
SNP_100100_A_340110	NW_004516889.1	scaffold1777	340110	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100101_A_340443	NW_004516889.1	scaffold1777	340443	TT	CC	CC	INTERGENIC		
SNP_100102_A_340456	NW_004516889.1	scaffold1777	340456	CC	TT	TT	INTERGENIC		
SNP_100103_A_343116	NW_004516889.1	scaffold1777	343116	CC	TT	TT	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100104_A_343140	NW_004516889.1	scaffold1777	343140	TT	CC	CC	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100105_A_343164	NW_004516889.1	scaffold1777	343164	CC	TT	TT	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100106_A_343173	NW_004516889.1	scaffold1777	343173	CC	TT	TT	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100107_A_343185	NW_004516889.1	scaffold1777	343185	GG	AA	AA	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100108_A_343228	NW_004516889.1	scaffold1777	343228	TT	CC	CC	NON_SYNONYMOUS_CODING	101496095	Unknown function
SNP_100109_A_343253	NW_004516889.1	scaffold1777	343253	AA	GG	GG	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100110_A_343257	NW_004516889.1	scaffold1777	343257	AA	GG	GG	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100111_A_343260	NW_004516889.1	scaffold1777	343260	AA	GG	GG	SYNONYMOUS_CODING	101496095	Unknown function
SNP_100112_A_343330	NW_004516889.1	scaffold1777	343330	AA	CC	CC	INTRON	101496095	Unknown function
SNP_100113_A_343381	NW_004516889.1	scaffold1777	343381	CC	TT	TT	INTRON	101496095	Unknown function
SNP_100114_A_343417	NW_004516889.1	scaffold1777	343417	TT	CC	CC	INTRON	101496095	Unknown function
SNP_100115_A_343438	NW_004516889.1	scaffold1777	343438	TT	AA	AA	INTRON	101496095	Unknown function
SNP_100116_A_343462	NW_004516889.1	scaffold1777	343462	AA	GG	GG	INTRON	101496095	Unknown function
SNP_100117_A_343466	NW_004516889.1	scaffold1777	343466	TT	CC	CC	INTRON	101496095	Unknown function
SNP_100118_A_343484	NW_004516889.1	scaffold1777	343484	TT	AA	AA	INTRON	101496095	Unknown function
SNP_100119_A_343489	NW_004516889.1	scaffold1777	343489	TT	CC	CC	INTRON	101496095	Unknown function
SNP_100120_A_343506	NW_004516889.1	scaffold1777	343506	CC	TT	TT	INTRON	101496095	Unknown function
SNP_100121_A_343513	NW_004516889.1	scaffold1777	343513	GG	TT	TT	INTRON	101496095	Unknown function
SNP_100122_A_343522	NW_004516889.1	scaffold1777	343522	AA	GG	GG	INTRON	101496095	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100123_A_343525	NW_004516889.1	scaffold1777	343525	TT	CC	CC	INTRON	101496095	Unknown function
SNP_100124_A_343537	NW_004516889.1	scaffold1777	343537	GG	AA	AA	INTRON	101496095	Unknown function
SNP_100125_A_343621	NW_004516889.1	scaffold1777	343621	GG	AA	AA	INTRON	101496095	Unknown function
SNP_100126_A_347665	NW_004516889.1	scaffold1777	347665	CC	TT	TT	INTERGENIC		
SNP_100127_A_347821	NW_004516889.1	scaffold1777	347821	AA	CC	CC	INTERGENIC		
SNP_100128_A_347827	NW_004516889.1	scaffold1777	347827	GG	AA	AA	INTERGENIC		
SNP_100129_A_347873	NW_004516889.1	scaffold1777	347873	GG	AA	AA	INTERGENIC		
SNP_100131_A_348110	NW_004516889.1	scaffold1777	348110	AA	TT	TT	INTERGENIC		
SNP_100132_A_375938	NW_004516889.1	scaffold1777	375938	AA	CC	CC	INTERGENIC		
SNP_100133_A_492294	NW_004516889.1	scaffold1777	492294	AA	CC	CC	INTERGENIC		
SNP_100134_A_492309	NW_004516889.1	scaffold1777	492309	AA	GG	GG	INTERGENIC		
SNP_100135_A_492339	NW_004516889.1	scaffold1777	492339	TT	CC	CC	INTERGENIC		
SNP_100137_A_518894	NW_004516889.1	scaffold1777	518894	AA	GG	GG	INTERGENIC		
SNP_100138_A_518940	NW_004516889.1	scaffold1777	518940	TT	CC	CC	INTERGENIC		
SNP_100139_A_518955	NW_004516889.1	scaffold1777	518955	TT	CC	CC	INTERGENIC		
SNP_100140_A_518970	NW_004516889.1	scaffold1777	518970	AA	GG	GG	INTERGENIC		
SNP_100141_A_551373	NW_004516889.1	scaffold1777	551373	TT	CC	CC	INTERGENIC		
SNP_100142_A_567465	NW_004516889.1	scaffold1777	567465	CC	TT	TT	INTERGENIC		
SNP_100143_A_569614	NW_004516889.1	scaffold1777	569614	AA	GG	GG	INTERGENIC		
SNP_100144_A_569622	NW_004516889.1	scaffold1777	569622	AA	CC	CC	INTERGENIC		
SNP_100145_A_570153	NW_004516889.1	scaffold1777	570153	TT	AA	AA	INTERGENIC		
SNP_100146_A_570158	NW_004516889.1	scaffold1777	570158	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100147_A_579879	NW_004516889.1	scaffold1777	579879	CC	TT	TT	INTERGENIC			
SNP_100148_A_613731	NW_004516889.1	scaffold1777	613731	AA	GG	GG	INTERGENIC			
SNP_100149_A_613787	NW_004516889.1	scaffold1777	613787	GG	AA	AA	INTERGENIC			
SNP_100150_A_613810	NW_004516889.1	scaffold1777	613810	TT	CC	CC	INTERGENIC			
SNP_100151_A_614044	NW_004516889.1	scaffold1777	614044	TT	CC	CC	INTERGENIC			
SNP_100152_A_614064	NW_004516889.1	scaffold1777	614064	AA	GG	GG	INTERGENIC			
SNP_100153_A_614402	NW_004516889.1	scaffold1777	614402	AA	GG	GG	INTERGENIC			
SNP_100154_A_614494	NW_004516889.1	scaffold1777	614494	CC	TT	TT	INTERGENIC			
SNP_100155_A_614511	NW_004516889.1	scaffold1777	614511	GG	AA	AA	INTERGENIC			
SNP_100156_A_614599	NW_004516889.1	scaffold1777	614599	TT	GG	GG	INTERGENIC			
SNP_100157_A_614684	NW_004516889.1	scaffold1777	614684	CC	TT	TT	INTERGENIC			
SNP_100158_A_614699	NW_004516889.1	scaffold1777	614699	TT	GG	GG	INTERGENIC			
SNP_100159_A_614717	NW_004516889.1	scaffold1777	614717	CC	TT	TT	INTERGENIC			
SNP_100160_A_623744	NW_004516889.1	scaffold1777	623744	CC	AA	AA	INTERGENIC			
SNP_100161_A_623763	NW_004516889.1	scaffold1777	623763	GG	AA	AA	INTERGENIC			
SNP_100162_A_624109	NW_004516889.1	scaffold1777	624109	AA	TT	TT	INTERGENIC			
SNP_100163_A_624116	NW_004516889.1	scaffold1777	624116	TT	AA	AA	INTERGENIC			
SNP_100164_A_625648	NW_004516889.1	scaffold1777	625648	AA	GG	GG	INTERGENIC			
SNP_100165_A_625735	NW_004516889.1	scaffold1777	625735	AA	GG	GG	INTERGENIC			
SNP_100166_A_625749	NW_004516889.1	scaffold1777	625749	GG	CC	CC	INTERGENIC			
SNP_100167_A_626478	NW_004516889.1	scaffold1777	626478	AA	TT	TT	INTERGENIC			
SNP_100168_A_626517	NW_004516889.1	scaffold1777	626517	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100169_A_626782	NW_004516889.1	scaffold1777	626782	TT	CC	CC	INTERGENIC			
SNP_100170_A_626817	NW_004516889.1	scaffold1777	626817	AA	TT	TT	INTERGENIC			
SNP_100171_A_626838	NW_004516889.1	scaffold1777	626838	AA	GG	GG	INTERGENIC			
SNP_100172_A_628203	NW_004516889.1	scaffold1777	628203	CC	TT	TT	INTERGENIC			
SNP_100173_A_628264	NW_004516889.1	scaffold1777	628264	TT	CC	CC	INTERGENIC			
SNP_100174_A_628295	NW_004516889.1	scaffold1777	628295	TT	CC	CC	INTERGENIC			
SNP_100175_A_628406	NW_004516889.1	scaffold1777	628406	GG	AA	AA	INTERGENIC			
SNP_100176_A_628448	NW_004516889.1	scaffold1777	628448	AA	GG	GG	INTERGENIC			
SNP_100177_A_628509	NW_004516889.1	scaffold1777	628509	AA	GG	GG	INTERGENIC			
SNP_100178_A_628540	NW_004516889.1	scaffold1777	628540	CC	AA	AA	INTERGENIC			
SNP_100179_A_628629	NW_004516889.1	scaffold1777	628629	AA	GG	GG	INTERGENIC			
SNP_100180_A_628701	NW_004516889.1	scaffold1777	628701	AA	CC	CC	INTERGENIC			
SNP_100181_A_628777	NW_004516889.1	scaffold1777	628777	CC	TT	TT	INTERGENIC			
SNP_100182_A_629227	NW_004516889.1	scaffold1777	629227	GG	CC	CC	INTERGENIC			
SNP_100183_A_629487	NW_004516889.1	scaffold1777	629487	CC	TT	TT	INTERGENIC			
SNP_100184_A_632479	NW_004516889.1	scaffold1777	632479	CC	TT	TT	INTERGENIC			
SNP_100185_A_636598	NW_004516889.1	scaffold1777	636598	TT	AA	AA	INTERGENIC			
SNP_100186_A_414	NW_004516890.1	scaffold1778	414	GG	CC	CC	INTERGENIC			
SNP_100187_A_852	NW_004516890.1	scaffold1778	852	TT	AA	AA	INTERGENIC			
SNP_100188_A_908	NW_004516890.1	scaffold1778	908	AA	CC	CC	INTERGENIC			
SNP_100189_A_915	NW_004516890.1	scaffold1778	915	AA	GG	GG	INTERGENIC			
SNP_100190_A_925	NW_004516890.1	scaffold1778	925	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100191_A_982	NW_004516890.1	scaffold1778	982	GG	AA	AA	INTERGENIC			
SNP_100192_A_1218	NW_004516890.1	scaffold1778	1218	AA	CC	CC	INTERGENIC			
SNP_100193_A_1223	NW_004516890.1	scaffold1778	1223	TT	GG	GG	INTERGENIC			
SNP_100195_A_1527	NW_004516890.1	scaffold1778	1527	AA	CC	CC	INTERGENIC			
SNP_100196_A_1651	NW_004516890.1	scaffold1778	1651	CC	TT	TT	INTERGENIC			
SNP_100197_A_1918	NW_004516890.1	scaffold1778	1918	AA	GG	GG	INTERGENIC			
SNP_100198_A_1973	NW_004516890.1	scaffold1778	1973	TT	GG	GG	INTERGENIC			
SNP_100199_A_1980	NW_004516890.1	scaffold1778	1980	CC	TT	TT	INTERGENIC			
SNP_100200_A_4156	NW_004516890.1	scaffold1778	4156	GG	AA	AA	INTERGENIC			
SNP_100201_A_4177	NW_004516890.1	scaffold1778	4177	TT	GG	GG	INTERGENIC			
SNP_100202_A_4184	NW_004516890.1	scaffold1778	4184	GG	AA	AA	INTERGENIC			
SNP_100203_A_4197	NW_004516890.1	scaffold1778	4197	CC	TT	TT	INTERGENIC			
SNP_100204_A_4236	NW_004516890.1	scaffold1778	4236	TT	CC	CC	INTERGENIC			
SNP_100205_A_4571	NW_004516890.1	scaffold1778	4571	TT	AA	AA	INTERGENIC			
SNP_100206_A_4573	NW_004516890.1	scaffold1778	4573	CC	TT	TT	INTERGENIC			
SNP_100207_A_4586	NW_004516890.1	scaffold1778	4586	TT	CC	CC	INTERGENIC			
SNP_100208_A_4925	NW_004516890.1	scaffold1778	4925	TT	CC	CC	INTERGENIC			
SNP_100209_A_4960	NW_004516890.1	scaffold1778	4960	GG	AA	AA	INTERGENIC			
SNP_100210_A_5011	NW_004516890.1	scaffold1778	5011	AA	GG	GG	INTERGENIC			
SNP_100211_A_10582	NW_004516890.1	scaffold1778	10582	CC	GG	GG	INTERGENIC			
SNP_100212_A_12078	NW_004516890.1	scaffold1778	12078	CC	TT	TT	INTERGENIC			
SNP_100213_A_12515	NW_004516890.1	scaffold1778	12515	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100214_A_15750	NW_004516890.1	scaffold1778	15750	AA	TT	TT	INTERGENIC			
SNP_100215_A_15832	NW_004516890.1	scaffold1778	15832	AA	GG	GG	INTERGENIC			
SNP_100216_A_15882	NW_004516890.1	scaffold1778	15882	AA	TT	TT	INTERGENIC			
SNP_100217_A_15959	NW_004516890.1	scaffold1778	15959	GG	AA	AA	INTERGENIC			
SNP_100218_A_16103	NW_004516890.1	scaffold1778	16103	CC	TT	TT	INTERGENIC			
SNP_100219_A_16129	NW_004516890.1	scaffold1778	16129	CC	GG	GG	INTERGENIC			
SNP_100220_A_16171	NW_004516890.1	scaffold1778	16171	AA	GG	GG	INTERGENIC			
SNP_100221_A_16240	NW_004516890.1	scaffold1778	16240	TT	CC	CC	INTERGENIC			
SNP_100222_A_16241	NW_004516890.1	scaffold1778	16241	TT	GG	GG	INTERGENIC			
SNP_100223_A_16286	NW_004516890.1	scaffold1778	16286	AA	GG	GG	INTERGENIC			
SNP_100224_A_16312	NW_004516890.1	scaffold1778	16312	TT	CC	CC	INTERGENIC			
SNP_100225_A_16340	NW_004516890.1	scaffold1778	16340	CC	TT	TT	INTERGENIC			
SNP_100226_A_16420	NW_004516890.1	scaffold1778	16420	AA	CC	CC	INTERGENIC			
SNP_100227_A_16421	NW_004516890.1	scaffold1778	16421	GG	AA	AA	INTERGENIC			
SNP_100228_A_16423	NW_004516890.1	scaffold1778	16423	GG	AA	AA	INTERGENIC			
SNP_100229_A_16476	NW_004516890.1	scaffold1778	16476	GG	AA	AA	INTERGENIC			
SNP_100230_A_16489	NW_004516890.1	scaffold1778	16489	CC	TT	TT	INTERGENIC			
SNP_100231_A_16555	NW_004516890.1	scaffold1778	16555	GG	CC	CC	INTERGENIC			
SNP_100232_A_16601	NW_004516890.1	scaffold1778	16601	AA	GG	GG	INTERGENIC			
SNP_100233_A_16645	NW_004516890.1	scaffold1778	16645	TT	AA	AA	INTERGENIC			
SNP_100234_A_16648	NW_004516890.1	scaffold1778	16648	TT	GG	GG	INTERGENIC			
SNP_100235_A_16716	NW_004516890.1	scaffold1778	16716	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100236_A_16776	NW_004516890.1	scaffold1778	16776	TT	CC	CC	INTERGENIC			
SNP_100237_A_16858	NW_004516890.1	scaffold1778	16858	CC	GG	GG	INTERGENIC			
SNP_100238_A_16931	NW_004516890.1	scaffold1778	16931	AA	GG	GG	INTERGENIC			
SNP_100239_A_16988	NW_004516890.1	scaffold1778	16988	AA	GG	GG	INTERGENIC			
SNP_100240_A_18767	NW_004516890.1	scaffold1778	18767	CC	TT	TT	INTERGENIC			
SNP_100241_A_18805	NW_004516890.1	scaffold1778	18805	TT	CC	CC	INTERGENIC			
SNP_100242_A_8671	NW_004516891.1	scaffold1779	8671	CC	TT	TT	INTERGENIC			
SNP_100243_A_11585	NW_004516891.1	scaffold1779	11585	GG	TT	TT	INTERGENIC			
SNP_100244_A_11659	NW_004516891.1	scaffold1779	11659	TT	GG	GG	INTERGENIC			
SNP_100245_A_12688	NW_004516891.1	scaffold1779	12688	TT	CC	CC	INTERGENIC			
SNP_100246_A_12702	NW_004516891.1	scaffold1779	12702	GG	AA	AA	INTERGENIC			
SNP_100247_A_110543	NW_004516891.1	scaffold1779	110543	AA	CC	CC	INTERGENIC			
SNP_100248_A_118767	NW_004516891.1	scaffold1779	118767	GG	AA	AA	INTERGENIC			
SNP_100249_A_119111	NW_004516891.1	scaffold1779	119111	CC	TT	TT	INTERGENIC			
SNP_100250_A_119160	NW_004516891.1	scaffold1779	119160	CC	AA	AA	INTERGENIC			
SNP_100251_A_119244	NW_004516891.1	scaffold1779	119244	TT	CC	CC	INTERGENIC			
SNP_100252_A_119275	NW_004516891.1	scaffold1779	119275	TT	AA	AA	INTERGENIC			
SNP_100253_A_119450	NW_004516891.1	scaffold1779	119450	GG	TT	TT	INTERGENIC			
SNP_100254_A_119679	NW_004516891.1	scaffold1779	119679	AA	TT	TT	INTERGENIC			
SNP_100255_A_119694	NW_004516891.1	scaffold1779	119694	AA	TT	TT	INTERGENIC			
SNP_100256_A_120129	NW_004516891.1	scaffold1779	120129	CC	TT	TT	INTERGENIC			
SNP_100257_A_120171	NW_004516891.1	scaffold1779	120171	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100258_A_121926	NW_004516891.1	scaffold1779	121926	CC	TT	TT	INTERGENIC			
SNP_100259_A_122089	NW_004516891.1	scaffold1779	122089	AA	GG	GG	INTERGENIC			
SNP_100260_A_122238	NW_004516891.1	scaffold1779	122238	AA	GG	GG	INTERGENIC			
SNP_100261_A_128221	NW_004516891.1	scaffold1779	128221	AA	CC	CC	INTERGENIC			
SNP_100262_A_128231	NW_004516891.1	scaffold1779	128231	AA	CC	CC	INTERGENIC			
SNP_100265_A_131566	NW_004516891.1	scaffold1779	131566	CC	AA	AA	INTERGENIC			
SNP_100266_A_132015	NW_004516891.1	scaffold1779	132015	TT	CC	CC	INTERGENIC			
SNP_100268_A_132441	NW_004516891.1	scaffold1779	132441	AA	GG	GG	INTERGENIC			
SNP_100269_A_132965	NW_004516891.1	scaffold1779	132965	GG	AA	AA	INTERGENIC			
SNP_100270_A_132999	NW_004516891.1	scaffold1779	132999	GG	AA	AA	INTERGENIC			
SNP_100271_A_5693	NW_004516893.1	scaffold1782	5693	AA	GG	GG	INTERGENIC			
SNP_100272_A_6055	NW_004516893.1	scaffold1782	6055	TT	GG	GG	INTERGENIC			
SNP_100273_A_6072	NW_004516893.1	scaffold1782	6072	AA	TT	TT	INTERGENIC			
SNP_100274_A_6121	NW_004516893.1	scaffold1782	6121	GG	AA	AA	INTERGENIC			
SNP_100275_A_6158	NW_004516893.1	scaffold1782	6158	TT	CC	CC	INTERGENIC			
SNP_100276_A_6171	NW_004516893.1	scaffold1782	6171	TT	GG	GG	INTERGENIC			
SNP_100277_A_6208	NW_004516893.1	scaffold1782	6208	AA	GG	GG	INTERGENIC			
SNP_100278_A_5042	NW_004516894.1	scaffold1783	5042	AA	GG	GG	INTERGENIC			
SNP_100279_A_8168	NW_004516894.1	scaffold1783	8168	AA	GG	GG	INTERGENIC			
SNP_100280_A_10731	NW_004516894.1	scaffold1783	10731	CC	TT	TT	INTERGENIC			
SNP_100281_A_10973	NW_004516894.1	scaffold1783	10973	GG	AA	AA	INTERGENIC			
SNP_100282_A_30094	NW_004516894.1	scaffold1783	30094	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100283_A_37357	NW_004516894.1	scaffold1783	37357	AA	TT	TT	INTERGENIC			
SNP_100284_A_37671	NW_004516894.1	scaffold1783	37671	GG	AA	AA	INTERGENIC			
SNP_100285_A_38096	NW_004516894.1	scaffold1783	38096	TT	AA	AA	INTERGENIC			
SNP_100286_A_38185	NW_004516894.1	scaffold1783	38185	AA	GG	GG	INTERGENIC			
SNP_100287_A_38254	NW_004516894.1	scaffold1783	38254	AA	TT	TT	INTERGENIC			
SNP_100288_A_39340	NW_004516894.1	scaffold1783	39340	TT	CC	CC	INTERGENIC			
SNP_100289_A_39344	NW_004516894.1	scaffold1783	39344	CC	AA	AA	INTERGENIC			
SNP_100290_A_40251	NW_004516894.1	scaffold1783	40251	AA	CC	CC	INTERGENIC			
SNP_100291_A_40269	NW_004516894.1	scaffold1783	40269	TT	GG	GG	INTERGENIC			
SNP_100292_A_40291	NW_004516894.1	scaffold1783	40291	GG	AA	AA	INTERGENIC			
SNP_100293_A_46055	NW_004516894.1	scaffold1783	46055	TT	CC	CC	INTERGENIC			
SNP_100294_A_46057	NW_004516894.1	scaffold1783	46057	TT	CC	CC	INTERGENIC			
SNP_100295_A_46060	NW_004516894.1	scaffold1783	46060	AA	GG	GG	INTERGENIC			
SNP_100296_A_46087	NW_004516894.1	scaffold1783	46087	CC	AA	AA	INTERGENIC			
SNP_100297_A_296	NW_004516897.1	scaffold1789	296	GG	AA	AA	INTERGENIC			
SNP_100298_A_417	NW_004516897.1	scaffold1789	417	AA	GG	GG	INTERGENIC			
SNP_100299_A_551	NW_004516897.1	scaffold1789	551	GG	AA	AA	INTERGENIC			
SNP_100300_A_21349	NW_004516897.1	scaffold1789	21349	AA	TT	TT	INTERGENIC			
SNP_100301_A_208	NW_004516900.1	scaffold1793	208	GG	TT	TT	INTERGENIC			
SNP_100302_A_5671	NW_004516901.1	scaffold1795	5671	AA	GG	GG	INTERGENIC			
SNP_100303_A_16773	NW_004516903.1	scaffold1797	16773	AA	CC	CC	INTERGENIC			
SNP_100304_A_16777	NW_004516903.1	scaffold1797	16777	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100305_A_16824	NW_004516903.1	scaffold1797	16824	CC	AA	AA	INTERGENIC		
SNP_100306_A_26277	NW_004516903.1	scaffold1797	26277	AA	GG	GG	INTERGENIC		
SNP_100308_A_37844	NW_004516903.1	scaffold1797	37844	CC	AA	AA	INTERGENIC		
SNP_100309_A_37895	NW_004516903.1	scaffold1797	37895	CC	GG	GG	INTERGENIC		
SNP_100310_A_1533	NW_004516904.1	scaffold1798	1533	AA	TT	TT	INTERGENIC		
SNP_100311_A_1579	NW_004516904.1	scaffold1798	1579	CC	TT	TT	INTERGENIC		
SNP_100312_A_1588	NW_004516904.1	scaffold1798	1588	TT	AA	AA	INTERGENIC		
SNP_100313_A_1731	NW_004516904.1	scaffold1798	1731	CC	AA	AA	INTERGENIC		
SNP_100314_A_1757	NW_004516904.1	scaffold1798	1757	AA	GG	GG	INTERGENIC		
SNP_100315_A_1785	NW_004516904.1	scaffold1798	1785	TT	CC	CC	INTERGENIC		
SNP_100316_A_1802	NW_004516904.1	scaffold1798	1802	TT	CC	CC	INTERGENIC		
SNP_100317_A_3437	NW_004516907.1	scaffold1802	3437	CC	AA	AA	NON_SYNONYMOUS_CODING	101500099	Unknown function
SNP_100318_A_3722	NW_004516907.1	scaffold1802	3722	GG	AA	AA	NON_SYNONYMOUS_CODING	101500099	Unknown function
SNP_100319_A_18888	NW_004516907.1	scaffold1802	18888	CC	TT	TT	INTERGENIC		
SNP_100320_A_18891	NW_004516907.1	scaffold1802	18891	AA	GG	GG	INTERGENIC		
SNP_100321_A_18894	NW_004516907.1	scaffold1802	18894	TT	CC	CC	INTERGENIC		
SNP_100323_A_82017	NW_004516909.1	scaffold1804	82017	TT	CC	CC	SYNONYMOUS_CODING	101501595	Unknown function
SNP_100324_A_82206	NW_004516909.1	scaffold1804	82206	AA	GG	GG	SYNONYMOUS_CODING	101501595	Unknown function
SNP_100325_A_116070	NW_004516909.1	scaffold1804	116070	CC	TT	TT	INTERGENIC		
SNP_100326_A_116307	NW_004516909.1	scaffold1804	116307	CC	TT	TT	DRR	101501051	expansin-B15-like
SNP_100327_A_116347	NW_004516909.1	scaffold1804	116347	TT	GG	GG	DRR	101501051	expansin-B15-like
SNP_100328_A_116392	NW_004516909.1	scaffold1804	116392	CC	TT	TT	DRR	101501051	expansin-B15-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100329_A_116409	NW_004516909.1	scaffold1804	116409	GG	TT	TT	DRR	101501051	expansin-B15-like
SNP_100330_A_118945	NW_004516909.1	scaffold1804	118945	AA	TT	TT	URR	101501051	expansin-B15-like
SNP_100331_A_118951	NW_004516909.1	scaffold1804	118951	GG	AA	AA	URR	101501051	expansin-B15-like
SNP_100333_A_149172	NW_004516909.1	scaffold1804	149172	CC	TT	TT	INTERGENIC		
SNP_100334_A_149175	NW_004516909.1	scaffold1804	149175	CC	GG	GG	INTERGENIC		
SNP_100335_A_149422	NW_004516909.1	scaffold1804	149422	AA	GG	GG	INTERGENIC		
SNP_100336_A_149757	NW_004516909.1	scaffold1804	149757	TT	GG	GG	INTERGENIC		
SNP_100337_A_154574	NW_004516909.1	scaffold1804	154574	CC	TT	TT	INTERGENIC		
SNP_100338_A_154855	NW_004516909.1	scaffold1804	154855	GG	AA	AA	INTERGENIC		
SNP_100340_A_176362	NW_004516909.1	scaffold1804	176362	AA	GG	GG	INTERGENIC		
SNP_100341_A_176410	NW_004516909.1	scaffold1804	176410	AA	GG	GG	INTERGENIC		
SNP_100342_A_180252	NW_004516909.1	scaffold1804	180252	TT	GG	GG	INTERGENIC		
SNP_100343_A_183783	NW_004516909.1	scaffold1804	183783	AA	TT	TT	INTERGENIC		
SNP_100344_A_184143	NW_004516909.1	scaffold1804	184143	AA	GG	GG	INTERGENIC		
SNP_100345_A_184229	NW_004516909.1	scaffold1804	184229	GG	TT	TT	INTERGENIC		
SNP_100346_A_190951	NW_004516909.1	scaffold1804	190951	TT	AA	AA	URR	101502552	putative expansin-B14
SNP_100347_A_191259	NW_004516909.1	scaffold1804	191259	GG	CC	CC	URR	101502552	putative expansin-B14
SNP_100348_A_191696	NW_004516909.1	scaffold1804	191696	CC	TT	TT	URR	101502552	putative expansin-B14
SNP_100349_A_191720	NW_004516909.1	scaffold1804	191720	AA	GG	GG	URR	101502552	putative expansin-B14
SNP_100350_A_191811	NW_004516909.1	scaffold1804	191811	GG	AA	AA	URR	101502552	putative expansin-B14
SNP_100351_A_192093	NW_004516909.1	scaffold1804	192093	AA	GG	GG	URR	101502552	putative expansin-B14
SNP_100352_A_192140	NW_004516909.1	scaffold1804	192140	TT	AA	AA	URR	101502552	putative expansin-B14

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100353_A_192173	NW_004516909.1	scaffold1804	192173	AA	GG	GG	URR	101502552	putative expansin-B14
SNP_100354_A_192247	NW_004516909.1	scaffold1804	192247	TT	AA	AA	URR	101502552	putative expansin-B14
SNP_100355_A_192248	NW_004516909.1	scaffold1804	192248	AA	GG	GG	URR	101502552	putative expansin-B14
SNP_100356_A_192249	NW_004516909.1	scaffold1804	192249	TT	AA	AA	URR	101502552	putative expansin-B14
SNP_100357_A_219874	NW_004516909.1	scaffold1804	219874	AA	GG	GG	INTRON	101502865	expansin-B15-like
SNP_100358_A_230702	NW_004516909.1	scaffold1804	230702	GG	AA	AA	INTRON	101502865	expansin-B15-like
SNP_100359_A_234328	NW_004516909.1	scaffold1804	234328	TT	CC	CC	INTRON	101502865	expansin-B15-like
SNP_100360_A_236960	NW_004516909.1	scaffold1804	236960	GG	AA	AA	URR	101502865	expansin-B15-like
SNP_100361_A_244532	NW_004516909.1	scaffold1804	244532	AA	CC	CC	INTERGENIC		
SNP_100362_A_244682	NW_004516909.1	scaffold1804	244682	CC	AA	AA	INTERGENIC		
SNP_100363_A_246799	NW_004516909.1	scaffold1804	246799	GG	AA	AA	INTERGENIC		
SNP_100364_A_246834	NW_004516909.1	scaffold1804	246834	GG	TT	TT	INTERGENIC		
SNP_100365_A_246865	NW_004516909.1	scaffold1804	246865	AA	GG	GG	INTERGENIC		
SNP_100366_A_246901	NW_004516909.1	scaffold1804	246901	GG	TT	TT	INTERGENIC		
SNP_100367_A_247089	NW_004516909.1	scaffold1804	247089	AA	GG	GG	INTERGENIC		
SNP_100368_A_247095	NW_004516909.1	scaffold1804	247095	AA	TT	TT	INTERGENIC		
SNP_100369_A_247102	NW_004516909.1	scaffold1804	247102	CC	TT	TT	INTERGENIC		
SNP_100370_A_247171	NW_004516909.1	scaffold1804	247171	CC	GG	GG	INTERGENIC		
SNP_100371_A_247307	NW_004516909.1	scaffold1804	247307	AA	CC	CC	INTERGENIC		
SNP_100372_A_247315	NW_004516909.1	scaffold1804	247315	AA	GG	GG	INTERGENIC		
SNP_100373_A_253031	NW_004516909.1	scaffold1804	253031	AA	CC	CC	INTERGENIC		
SNP_100374_A_253574	NW_004516909.1	scaffold1804	253574	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100375_A_253716	NW_004516909.1	scaffold1804	253716	TT	CC	CC	INTERGENIC			
SNP_100376_A_253840	NW_004516909.1	scaffold1804	253840	CC	TT	TT	INTERGENIC			
SNP_100377_A_253897	NW_004516909.1	scaffold1804	253897	CC	TT	TT	INTERGENIC			
SNP_100378_A_257644	NW_004516909.1	scaffold1804	257644	GG	TT	TT	INTERGENIC			
SNP_100379_A_257727	NW_004516909.1	scaffold1804	257727	GG	AA	AA	INTERGENIC			
SNP_100380_A_271321	NW_004516909.1	scaffold1804	271321	TT	CC	CC	INTERGENIC			
SNP_100381_A_303353	NW_004516909.1	scaffold1804	303353	TT	CC	CC	INTERGENIC			
SNP_100382_A_317904	NW_004516909.1	scaffold1804	317904	CC	AA	AA	DRR	101503844	expansin-B11-like	
SNP_100383_A_317906	NW_004516909.1	scaffold1804	317906	TT	AA	AA	DRR	101503844	expansin-B11-like	
SNP_100385_A_64	NW_004516910.1	scaffold1806	64	CC	AA	AA	INTERGENIC			
SNP_100386_A_107	NW_004516910.1	scaffold1806	107	AA	TT	TT	INTERGENIC			
SNP_100388_A_347	NW_004516910.1	scaffold1806	347	AA	CC	CC	INTERGENIC			
SNP_100389_A_446	NW_004516910.1	scaffold1806	446	GG	TT	TT	INTERGENIC			
SNP_100390_A_541	NW_004516910.1	scaffold1806	541	AA	GG	GG	INTERGENIC			
SNP_100391_A_555	NW_004516910.1	scaffold1806	555	AA	GG	GG	INTERGENIC			
SNP_100392_A_650	NW_004516910.1	scaffold1806	650	GG	CC	CC	INTERGENIC			
SNP_100393_A_701	NW_004516910.1	scaffold1806	701	AA	GG	GG	INTERGENIC			
SNP_100394_A_730	NW_004516910.1	scaffold1806	730	AA	GG	GG	INTERGENIC			
SNP_100395_A_2422	NW_004516910.1	scaffold1806	2422	TT	CC	CC	INTERGENIC			
SNP_100396_A_2435	NW_004516910.1	scaffold1806	2435	AA	GG	GG	INTERGENIC			
SNP_100397_A_2563	NW_004516910.1	scaffold1806	2563	TT	AA	AA	INTERGENIC			
SNP_100398_A_2566	NW_004516910.1	scaffold1806	2566	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100399_A_2754	NW_004516910.1	scaffold1806	2754	CC	TT	TT	INTERGENIC			
SNP_100400_A_4702	NW_004516910.1	scaffold1806	4702	TT	CC	CC	INTERGENIC			
SNP_100401_A_4919	NW_004516910.1	scaffold1806	4919	AA	GG	GG	INTERGENIC			
SNP_100402_A_4925	NW_004516910.1	scaffold1806	4925	CC	TT	TT	INTERGENIC			
SNP_100403_A_4956	NW_004516910.1	scaffold1806	4956	CC	GG	GG	INTERGENIC			
SNP_100404_A_4966	NW_004516910.1	scaffold1806	4966	GG	AA	AA	INTERGENIC			
SNP_100405_A_5041	NW_004516910.1	scaffold1806	5041	AA	TT	TT	INTERGENIC			
SNP_100406_A_6730	NW_004516910.1	scaffold1806	6730	CC	GG	GG	INTERGENIC			
SNP_100407_A_6906	NW_004516910.1	scaffold1806	6906	AA	GG	GG	INTERGENIC			
SNP_100408_A_6978	NW_004516910.1	scaffold1806	6978	CC	TT	TT	INTERGENIC			
SNP_100409_A_7016	NW_004516910.1	scaffold1806	7016	AA	GG	GG	INTERGENIC			
SNP_100410_A_7535	NW_004516910.1	scaffold1806	7535	AA	GG	GG	INTERGENIC			
SNP_100411_A_7906	NW_004516910.1	scaffold1806	7906	GG	TT	TT	INTERGENIC			
SNP_100412_A_8599	NW_004516910.1	scaffold1806	8599	AA	GG	GG	INTERGENIC			
SNP_100413_A_8760	NW_004516910.1	scaffold1806	8760	CC	GG	GG	INTERGENIC			
SNP_100414_A_8776	NW_004516910.1	scaffold1806	8776	AA	GG	GG	INTERGENIC			
SNP_100415_A_23856	NW_004516910.1	scaffold1806	23856	CC	TT	TT	INTERGENIC			
SNP_100416_A_23943	NW_004516910.1	scaffold1806	23943	TT	AA	AA	INTERGENIC			
SNP_100417_A_24090	NW_004516910.1	scaffold1806	24090	CC	TT	TT	INTERGENIC			
SNP_100418_A_24170	NW_004516910.1	scaffold1806	24170	TT	AA	AA	INTERGENIC			
SNP_100419_A_24427	NW_004516910.1	scaffold1806	24427	CC	AA	AA	INTERGENIC			
SNP_100420_A_24656	NW_004516910.1	scaffold1806	24656	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100422_A_24768	NW_004516910.1	scaffold1806	24768	CC	AA	AA	INTERGENIC			
SNP_100423_A_24793	NW_004516910.1	scaffold1806	24793	TT	AA	AA	INTERGENIC			
SNP_100424_A_25347	NW_004516910.1	scaffold1806	25347	AA	CC	CC	INTERGENIC			
SNP_100425_A_25354	NW_004516910.1	scaffold1806	25354	CC	GG	GG	INTERGENIC			
SNP_100426_A_28481	NW_004516910.1	scaffold1806	28481	GG	AA	AA	INTERGENIC			
SNP_100427_A_417	NW_004516913.1	scaffold1810	417	TT	CC	CC	INTERGENIC			
SNP_100428_A_519	NW_004516913.1	scaffold1810	519	GG	AA	AA	INTERGENIC			
SNP_100429_A_731	NW_004516913.1	scaffold1810	731	TT	GG	GG	INTERGENIC			
SNP_100430_A_969	NW_004516913.1	scaffold1810	969	AA	TT	TT	INTERGENIC			
SNP_100431_A_1649	NW_004516913.1	scaffold1810	1649	AA	CC	CC	INTERGENIC			
SNP_100432_A_1694	NW_004516913.1	scaffold1810	1694	CC	TT	TT	INTERGENIC			
SNP_100433_A_1735	NW_004516913.1	scaffold1810	1735	TT	AA	AA	INTERGENIC			
SNP_100434_A_2053	NW_004516913.1	scaffold1810	2053	CC	TT	TT	INTERGENIC			
SNP_100435_A_2066	NW_004516913.1	scaffold1810	2066	GG	AA	AA	INTERGENIC			
SNP_100436_A_43942	NW_004516913.1	scaffold1810	43942	TT	CC	CC	INTRON	101504158	Unknown function	
SNP_100437_A_48301	NW_004516913.1	scaffold1810	48301	AA	GG	GG	URR	101504158	Unknown function	
SNP_100438_A_95353	NW_004516913.1	scaffold1810	95353	TT	CC	CC	INTERGENIC			
SNP_100440_A_98595	NW_004516913.1	scaffold1810	98595	TT	AA	AA	INTERGENIC			
SNP_100441_A_98663	NW_004516913.1	scaffold1810	98663	AA	GG	GG	INTERGENIC			
SNP_100442_A_98676	NW_004516913.1	scaffold1810	98676	CC	TT	TT	INTERGENIC			
SNP_100443_A_98679	NW_004516913.1	scaffold1810	98679	CC	AA	AA	INTERGENIC			
SNP_100444_A_98752	NW_004516913.1	scaffold1810	98752	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100445_A_98769	NW_004516913.1	scaffold1810	98769	GG	AA	AA	INTERGENIC			
SNP_100446_A_101967	NW_004516913.1	scaffold1810	101967	AA	TT	TT	INTERGENIC			
SNP_100447_A_103203	NW_004516913.1	scaffold1810	103203	TT	CC	CC	INTERGENIC			
SNP_100448_A_103209	NW_004516913.1	scaffold1810	103209	TT	GG	GG	INTERGENIC			
SNP_100450_A_103413	NW_004516913.1	scaffold1810	103413	AA	GG	GG	INTERGENIC			
SNP_100451_A_103633	NW_004516913.1	scaffold1810	103633	GG	AA	AA	INTERGENIC			
SNP_100452_A_103667	NW_004516913.1	scaffold1810	103667	GG	TT	TT	INTERGENIC			
SNP_100455_A_105071	NW_004516913.1	scaffold1810	105071	AA	TT	TT	INTERGENIC			
SNP_100456_A_105085	NW_004516913.1	scaffold1810	105085	TT	AA	AA	INTERGENIC			
SNP_100457_A_105320	NW_004516913.1	scaffold1810	105320	TT	AA	AA	INTERGENIC			
SNP_100458_A_105	NW_004516914.1	scaffold1811	105	TT	CC	CC	INTERGENIC			
SNP_100459_A_1579	NW_004516916.1	scaffold1813	1579	GG	AA	AA	INTERGENIC			
SNP_100460_A_1580	NW_004516916.1	scaffold1813	1580	AA	GG	GG	INTERGENIC			
SNP_100461_A_5738	NW_004516918.1	scaffold1815	5738	GG	AA	AA	INTERGENIC			
SNP_100463_A_12795	NW_004516918.1	scaffold1815	12795	AA	GG	GG	INTERGENIC			
SNP_100464_A_16703	NW_004516918.1	scaffold1815	16703	CC	AA	AA	INTERGENIC			
SNP_100465_A_24135	NW_004516918.1	scaffold1815	24135	TT	CC	CC	URR	101505989	uncharacterized LOC101505989	
SNP_100466_A_24331	NW_004516918.1	scaffold1815	24331	AA	GG	GG	URR	101505989	uncharacterized LOC101505989	
SNP_100467_A_31835	NW_004516918.1	scaffold1815	31835	AA	GG	GG	INTERGENIC			
SNP_100468_A_31860	NW_004516918.1	scaffold1815	31860	AA	GG	GG	INTERGENIC			
SNP_100469_A_34555	NW_004516918.1	scaffold1815	34555	CC	TT	TT	INTERGENIC			
SNP_100470_A_15682	NW_004516919.1	scaffold1816	15682	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100471_A_15928	NW_004516919.1	scaffold1816	15928	CC	GG	GG	INTERGENIC			
SNP_100472_A_15966	NW_004516919.1	scaffold1816	15966	TT	CC	CC	INTERGENIC			
SNP_100473_A_19267	NW_004516919.1	scaffold1816	19267	TT	GG	GG	INTERGENIC			
SNP_100474_A_26240	NW_004516919.1	scaffold1816	26240	TT	CC	CC	INTERGENIC			
SNP_100475_A_26302	NW_004516919.1	scaffold1816	26302	CC	AA	AA	INTERGENIC			
SNP_100476_A_26494	NW_004516919.1	scaffold1816	26494	CC	TT	TT	INTERGENIC			
SNP_100477_A_27803	NW_004516919.1	scaffold1816	27803	AA	CC	CC	INTERGENIC			
SNP_100478_A_27897	NW_004516919.1	scaffold1816	27897	CC	AA	AA	INTERGENIC			
SNP_100479_A_28276	NW_004516919.1	scaffold1816	28276	GG	AA	AA	INTERGENIC			
SNP_100480_A_28316	NW_004516919.1	scaffold1816	28316	TT	GG	GG	INTERGENIC			
SNP_100481_A_52991	NW_004516919.1	scaffold1816	52991	CC	AA	AA	INTERGENIC			
SNP_100482_A_53044	NW_004516919.1	scaffold1816	53044	TT	AA	AA	INTERGENIC			
SNP_100483_A_53064	NW_004516919.1	scaffold1816	53064	TT	CC	CC	INTERGENIC			
SNP_100484_A_53083	NW_004516919.1	scaffold1816	53083	CC	GG	GG	INTERGENIC			
SNP_100485_A_53110	NW_004516919.1	scaffold1816	53110	AA	GG	GG	INTERGENIC			
SNP_100486_A_53115	NW_004516919.1	scaffold1816	53115	GG	AA	AA	INTERGENIC			
SNP_100487_A_53141	NW_004516919.1	scaffold1816	53141	AA	GG	GG	INTERGENIC			
SNP_100488_A_53201	NW_004516919.1	scaffold1816	53201	GG	AA	AA	INTERGENIC			
SNP_100489_A_53221	NW_004516919.1	scaffold1816	53221	TT	GG	GG	INTERGENIC			
SNP_100490_A_53347	NW_004516919.1	scaffold1816	53347	CC	GG	GG	INTERGENIC			
SNP_100491_A_53349	NW_004516919.1	scaffold1816	53349	AA	GG	GG	INTERGENIC			
SNP_100492_A_53367	NW_004516919.1	scaffold1816	53367	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100493_A_53386	NW_004516919.1	scaffold1816	53386	TT	AA	AA	INTERGENIC			
SNP_100494_A_53496	NW_004516919.1	scaffold1816	53496	GG	CC	CC	INTERGENIC			
SNP_100495_A_53582	NW_004516919.1	scaffold1816	53582	CC	TT	TT	INTERGENIC			
SNP_100497_A_53666	NW_004516919.1	scaffold1816	53666	CC	TT	TT	INTERGENIC			
SNP_100498_A_53686	NW_004516919.1	scaffold1816	53686	TT	CC	CC	INTERGENIC			
SNP_100499_A_53752	NW_004516919.1	scaffold1816	53752	CC	TT	TT	INTERGENIC			
SNP_100500_A_53754	NW_004516919.1	scaffold1816	53754	CC	GG	GG	INTERGENIC			
SNP_100501_A_1810	NW_004516920.1	scaffold1817	1810	TT	CC	CC	INTERGENIC			
SNP_100502_A_3298	NW_004516920.1	scaffold1817	3298	AA	GG	GG	INTERGENIC			
SNP_100503_A_3336	NW_004516920.1	scaffold1817	3336	TT	CC	CC	INTERGENIC			
SNP_100504_A_3403	NW_004516920.1	scaffold1817	3403	TT	CC	CC	INTERGENIC			
SNP_100505_A_3432	NW_004516920.1	scaffold1817	3432	TT	CC	CC	INTERGENIC			
SNP_100506_A_3679	NW_004516920.1	scaffold1817	3679	CC	GG	GG	INTERGENIC			
SNP_100507_A_3748	NW_004516920.1	scaffold1817	3748	AA	GG	GG	INTERGENIC			
SNP_100508_A_9126	NW_004516921.1	scaffold1818	9126	AA	GG	GG	INTERGENIC			
SNP_100509_A_19312	NW_004516921.1	scaffold1818	19312	AA	TT	TT	INTERGENIC			
SNP_100510_A_25839	NW_004516921.1	scaffold1818	25839	GG	CC	CC	INTERGENIC			
SNP_100511_A_25843	NW_004516921.1	scaffold1818	25843	TT	CC	CC	INTERGENIC			
SNP_100512_A_28531	NW_004516921.1	scaffold1818	28531	TT	CC	CC	INTERGENIC			
SNP_100513_A_28603	NW_004516921.1	scaffold1818	28603	AA	TT	TT	INTERGENIC			
SNP_100514_A_28630	NW_004516921.1	scaffold1818	28630	GG	AA	AA	INTERGENIC			
SNP_100515_A_28652	NW_004516921.1	scaffold1818	28652	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100516_A_8597	NW_004516924.1	scaffold1822	8597	TT	CC	CC	INTERGENIC			
SNP_100517_A_8781	NW_004516924.1	scaffold1822	8781	GG	AA	AA	INTERGENIC			
SNP_100519_A_17507	NW_004516924.1	scaffold1822	17507	TT	AA	AA	INTERGENIC			
SNP_100520_A_17528	NW_004516924.1	scaffold1822	17528	AA	GG	GG	INTERGENIC			
SNP_100521_A_17846	NW_004516924.1	scaffold1822	17846	CC	TT	TT	INTERGENIC			
SNP_100522_A_18282	NW_004516924.1	scaffold1822	18282	AA	GG	GG	INTERGENIC			
SNP_100523_A_18329	NW_004516924.1	scaffold1822	18329	CC	AA	AA	INTERGENIC			
SNP_100524_A_18332	NW_004516924.1	scaffold1822	18332	GG	AA	AA	INTERGENIC			
SNP_100525_A_27090	NW_004516924.1	scaffold1822	27090	CC	TT	TT	INTERGENIC			
SNP_100526_A_39662	NW_004516924.1	scaffold1822	39662	GG	CC	CC	INTERGENIC			
SNP_100527_A_47089	NW_004516924.1	scaffold1822	47089	TT	CC	CC	INTERGENIC			
SNP_100528_A_47134	NW_004516924.1	scaffold1822	47134	TT	CC	CC	INTERGENIC			
SNP_100529_A_47157	NW_004516924.1	scaffold1822	47157	AA	TT	TT	INTERGENIC			
SNP_100530_A_53753	NW_004516924.1	scaffold1822	53753	GG	TT	TT	INTERGENIC			
SNP_100531_A_24612	NW_004516926.1	scaffold1825	24612	CC	GG	GG	INTERGENIC			
SNP_100532_A_24626	NW_004516926.1	scaffold1825	24626	TT	CC	CC	INTERGENIC			
SNP_100533_A_26276	NW_004516926.1	scaffold1825	26276	CC	TT	TT	INTERGENIC			
SNP_100534_A_40444	NW_004516926.1	scaffold1825	40444	CC	TT	TT	INTERGENIC			
SNP_100535_A_45493	NW_004516926.1	scaffold1825	45493	AA	GG	GG	INTERGENIC			
SNP_100536_A_48808	NW_004516926.1	scaffold1825	48808	CC	TT	TT	INTERGENIC			
SNP_100537_A_48840	NW_004516926.1	scaffold1825	48840	GG	AA	AA	INTERGENIC			
SNP_100538_A_48858	NW_004516926.1	scaffold1825	48858	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100539_A_48876	NW_004516926.1	scaffold1825	48876	CC	TT	TT	INTERGENIC		
SNP_100540_A_63787	NW_004516926.1	scaffold1825	63787	GG	CC	CC	INTERGENIC		
SNP_100541_A_112049	NW_004516926.1	scaffold1825	112049	AA	TT	TT	INTERGENIC		
SNP_100542_A_112050	NW_004516926.1	scaffold1825	112050	TT	AA	AA	INTERGENIC		
SNP_100543_A_118214	NW_004516926.1	scaffold1825	118214	GG	TT	TT	INTERGENIC		
SNP_100544_A_133693	NW_004516926.1	scaffold1825	133693	CC	TT	TT	SYNONYMOUS_CODING	101507589	40S ribosomal protein S8-like
SNP_100545_A_134910	NW_004516926.1	scaffold1825	134910	TT	CC	CC	INTRON	101507589	40S ribosomal protein S8-like
SNP_100546_A_134964	NW_004516926.1	scaffold1825	134964	AA	GG	GG	INTRON	101507589	40S ribosomal protein S8-like
SNP_100547_A_135657	NW_004516926.1	scaffold1825	135657	AA	TT	TT	INTRON	101507589	40S ribosomal protein S8-like
SNP_100548_A_135658	NW_004516926.1	scaffold1825	135658	TT	CC	CC	INTRON	101507589	40S ribosomal protein S8-like
SNP_100549_A_135705	NW_004516926.1	scaffold1825	135705	GG	CC	CC	INTRON	101507589	40S ribosomal protein S8-like
SNP_100550_A_142323	NW_004516926.1	scaffold1825	142323	CC	AA	AA	INTERGENIC		
SNP_100551_A_144112	NW_004516926.1	scaffold1825	144112	CC	TT	TT	INTERGENIC		
SNP_100552_A_147746	NW_004516926.1	scaffold1825	147746	TT	CC	CC	INTERGENIC		
SNP_100553_A_147754	NW_004516926.1	scaffold1825	147754	GG	CC	CC	INTERGENIC		
SNP_100554_A_147842	NW_004516926.1	scaffold1825	147842	AA	GG	GG	INTERGENIC		
SNP_100555_A_147846	NW_004516926.1	scaffold1825	147846	GG	AA	AA	INTERGENIC		
SNP_100557_A_148249	NW_004516926.1	scaffold1825	148249	TT	CC	CC	INTERGENIC		
SNP_100558_A_149764	NW_004516926.1	scaffold1825	149764	CC	TT	TT	INTERGENIC		
SNP_100559_A_149857	NW_004516926.1	scaffold1825	149857	CC	TT	TT	INTERGENIC		
SNP_100560_A_153613	NW_004516926.1	scaffold1825	153613	CC	TT	TT	INTERGENIC		
SNP_100561_A_156503	NW_004516926.1	scaffold1825	156503	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100562_A_2135	NW_004516927.1	scaffold1826	2135	GG	AA	AA	INTERGENIC			
SNP_100563_A_2136	NW_004516927.1	scaffold1826	2136	CC	AA	AA	INTERGENIC			
SNP_100565_A_29802	NW_004516929.1	scaffold1830	29802	AA	TT	TT	INTERGENIC			
SNP_100566_A_33494	NW_004516929.1	scaffold1830	33494	CC	AA	AA	INTERGENIC			
SNP_100567_A_1506	NW_004516930.1	scaffold1832	1506	CC	TT	TT	INTERGENIC			
SNP_100568_A_1532	NW_004516930.1	scaffold1832	1532	AA	GG	GG	INTERGENIC			
SNP_100569_A_558	NW_004516931.1	scaffold1835	558	GG	AA	AA	INTERGENIC			
SNP_100570_A_666	NW_004516931.1	scaffold1835	666	TT	GG	GG	INTERGENIC			
SNP_100571_A_758	NW_004516931.1	scaffold1835	758	TT	CC	CC	INTERGENIC			
SNP_100572_A_988	NW_004516931.1	scaffold1835	988	CC	AA	AA	INTERGENIC			
SNP_100573_A_1716	NW_004516931.1	scaffold1835	1716	AA	GG	GG	INTERGENIC			
SNP_100574_A_1774	NW_004516931.1	scaffold1835	1774	TT	CC	CC	INTERGENIC			
SNP_100575_A_2038	NW_004516931.1	scaffold1835	2038	AA	GG	GG	INTERGENIC			
SNP_100576_A_2044	NW_004516931.1	scaffold1835	2044	TT	CC	CC	INTERGENIC			
SNP_100577_A_2068	NW_004516931.1	scaffold1835	2068	CC	TT	TT	INTERGENIC			
SNP_100578_A_2161	NW_004516931.1	scaffold1835	2161	CC	TT	TT	INTERGENIC			
SNP_100579_A_5325	NW_004516931.1	scaffold1835	5325	TT	CC	CC	INTERGENIC			
SNP_100580_A_5364	NW_004516931.1	scaffold1835	5364	CC	AA	AA	INTERGENIC			
SNP_100581_A_5430	NW_004516931.1	scaffold1835	5430	TT	CC	CC	INTERGENIC			
SNP_100582_A_5463	NW_004516931.1	scaffold1835	5463	CC	AA	AA	INTERGENIC			
SNP_100583_A_5785	NW_004516931.1	scaffold1835	5785	GG	AA	AA	INTERGENIC			
SNP_100584_A_6732	NW_004516931.1	scaffold1835	6732	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100585_A_6736	NW_004516931.1	scaffold1835	6736	GG	AA	AA	INTERGENIC			
SNP_100586_A_6783	NW_004516931.1	scaffold1835	6783	GG	CC	CC	INTERGENIC			
SNP_100587_A_6785	NW_004516931.1	scaffold1835	6785	GG	CC	CC	INTERGENIC			
SNP_100588_A_6812	NW_004516931.1	scaffold1835	6812	TT	CC	CC	INTERGENIC			
SNP_100589_A_6814	NW_004516931.1	scaffold1835	6814	GG	AA	AA	INTERGENIC			
SNP_100590_A_6839	NW_004516931.1	scaffold1835	6839	AA	GG	GG	INTERGENIC			
SNP_100591_A_7345	NW_004516931.1	scaffold1835	7345	AA	GG	GG	INTERGENIC			
SNP_100592_A_7559	NW_004516931.1	scaffold1835	7559	CC	TT	TT	INTERGENIC			
SNP_100593_A_7710	NW_004516931.1	scaffold1835	7710	GG	CC	CC	INTERGENIC			
SNP_100594_A_7766	NW_004516931.1	scaffold1835	7766	CC	TT	TT	INTERGENIC			
SNP_100595_A_7829	NW_004516931.1	scaffold1835	7829	AA	GG	GG	INTERGENIC			
SNP_100596_A_7977	NW_004516931.1	scaffold1835	7977	AA	TT	TT	INTERGENIC			
SNP_100598_A_8207	NW_004516931.1	scaffold1835	8207	GG	AA	AA	INTERGENIC			
SNP_100599_A_8208	NW_004516931.1	scaffold1835	8208	CC	TT	TT	INTERGENIC			
SNP_100600_A_8324	NW_004516931.1	scaffold1835	8324	CC	TT	TT	INTERGENIC			
SNP_100601_A_8339	NW_004516931.1	scaffold1835	8339	CC	GG	GG	INTERGENIC			
SNP_100602_A_8341	NW_004516931.1	scaffold1835	8341	GG	TT	TT	INTERGENIC			
SNP_100603_A_8404	NW_004516931.1	scaffold1835	8404	TT	GG	GG	INTERGENIC			
SNP_100604_A_8438	NW_004516931.1	scaffold1835	8438	TT	GG	GG	INTERGENIC			
SNP_100605_A_8456	NW_004516931.1	scaffold1835	8456	AA	GG	GG	INTERGENIC			
SNP_100607_A_8515	NW_004516931.1	scaffold1835	8515	GG	AA	AA	INTERGENIC			
SNP_100608_A_8762	NW_004516931.1	scaffold1835	8762	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100609_A_8831	NW_004516931.1	scaffold1835	8831	CC	AA	AA	INTERGENIC			
SNP_100610_A_8927	NW_004516931.1	scaffold1835	8927	AA	GG	GG	INTERGENIC			
SNP_100611_A_9417	NW_004516931.1	scaffold1835	9417	CC	AA	AA	INTERGENIC			
SNP_100613_A_10541	NW_004516931.1	scaffold1835	10541	CC	GG	GG	INTERGENIC			
SNP_100614_A_10563	NW_004516931.1	scaffold1835	10563	TT	CC	CC	INTERGENIC			
SNP_100616_A_11356	NW_004516931.1	scaffold1835	11356	CC	TT	TT	INTERGENIC			
SNP_100617_A_11545	NW_004516931.1	scaffold1835	11545	GG	CC	CC	INTERGENIC			
SNP_100618_A_25517	NW_004516931.1	scaffold1835	25517	TT	CC	CC	INTERGENIC			
SNP_100619_A_25690	NW_004516931.1	scaffold1835	25690	CC	TT	TT	INTERGENIC			
SNP_100620_A_25836	NW_004516931.1	scaffold1835	25836	CC	TT	TT	INTERGENIC			
SNP_100621_A_26148	NW_004516931.1	scaffold1835	26148	TT	AA	AA	INTERGENIC			
SNP_100622_A_26198	NW_004516931.1	scaffold1835	26198	AA	GG	GG	INTERGENIC			
SNP_100623_A_26248	NW_004516931.1	scaffold1835	26248	CC	TT	TT	INTERGENIC			
SNP_100624_A_26901	NW_004516931.1	scaffold1835	26901	AA	GG	GG	INTERGENIC			
SNP_100625_A_2025	NW_004516933.1	scaffold1839	2025	CC	TT	TT	INTERGENIC			
SNP_100626_A_2030	NW_004516933.1	scaffold1839	2030	AA	CC	CC	INTERGENIC			
SNP_100627_A_2031	NW_004516933.1	scaffold1839	2031	AA	TT	TT	INTERGENIC			
SNP_100628_A_2040	NW_004516933.1	scaffold1839	2040	AA	CC	CC	INTERGENIC			
SNP_100629_A_5873	NW_004516934.1	scaffold1840	5873	GG	AA	AA	INTERGENIC			
SNP_100630_A_665	NW_004516937.1	scaffold1844	665	AA	GG	GG	INTERGENIC			
SNP_100631_A_679	NW_004516937.1	scaffold1844	679	GG	AA	AA	INTERGENIC			
SNP_100632_A_710	NW_004516937.1	scaffold1844	710	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100633_A_734	NW_004516937.1	scaffold1844	734	AA	GG	GG	INTERGENIC			
SNP_100634_A_837	NW_004516937.1	scaffold1844	837	AA	GG	GG	INTERGENIC			
SNP_100635_A_847	NW_004516937.1	scaffold1844	847	CC	AA	AA	INTERGENIC			
SNP_100636_A_886	NW_004516937.1	scaffold1844	886	CC	TT	TT	INTERGENIC			
SNP_100637_A_917	NW_004516937.1	scaffold1844	917	CC	TT	TT	INTERGENIC			
SNP_100638_A_957	NW_004516937.1	scaffold1844	957	TT	CC	CC	INTERGENIC			
SNP_100639_A_967	NW_004516937.1	scaffold1844	967	TT	CC	CC	INTERGENIC			
SNP_100640_A_990	NW_004516937.1	scaffold1844	990	TT	CC	CC	INTERGENIC			
SNP_100641_A_1035	NW_004516937.1	scaffold1844	1035	AA	CC	CC	INTERGENIC			
SNP_100642_A_1686	NW_004516937.1	scaffold1844	1686	GG	TT	TT	INTERGENIC			
SNP_100643_A_1701	NW_004516937.1	scaffold1844	1701	CC	TT	TT	INTERGENIC			
SNP_100644_A_1777	NW_004516937.1	scaffold1844	1777	GG	AA	AA	INTERGENIC			
SNP_100645_A_1881	NW_004516937.1	scaffold1844	1881	TT	CC	CC	INTERGENIC			
SNP_100646_A_1932	NW_004516937.1	scaffold1844	1932	AA	TT	TT	INTERGENIC			
SNP_100648_A_2126	NW_004516937.1	scaffold1844	2126	AA	CC	CC	INTERGENIC			
SNP_100649_A_2154	NW_004516937.1	scaffold1844	2154	TT	GG	GG	INTERGENIC			
SNP_100651_A_2240	NW_004516937.1	scaffold1844	2240	TT	AA	AA	INTERGENIC			
SNP_100652_A_2309	NW_004516937.1	scaffold1844	2309	CC	AA	AA	INTERGENIC			
SNP_100653_A_2327	NW_004516937.1	scaffold1844	2327	CC	AA	AA	INTERGENIC			
SNP_100654_A_2403	NW_004516937.1	scaffold1844	2403	TT	GG	GG	INTERGENIC			
SNP_100655_A_2462	NW_004516937.1	scaffold1844	2462	TT	CC	CC	INTERGENIC			
SNP_100656_A_2464	NW_004516937.1	scaffold1844	2464	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100658_A_2631	NW_004516937.1	scaffold1844	2631	CC	AA	AA	INTERGENIC		
SNP_100659_A_2673	NW_004516937.1	scaffold1844	2673	AA	TT	TT	INTERGENIC		
SNP_100660_A_2766	NW_004516937.1	scaffold1844	2766	CC	TT	TT	INTERGENIC		
SNP_100662_A_10710	NW_004516937.1	scaffold1844	10710	GG	CC	CC	INTERGENIC		
SNP_100663_A_10723	NW_004516937.1	scaffold1844	10723	CC	TT	TT	INTERGENIC		
SNP_100664_A_12452	NW_004516937.1	scaffold1844	12452	CC	GG	GG	INTERGENIC		
SNP_100665_A_12745	NW_004516937.1	scaffold1844	12745	AA	GG	GG	INTERGENIC		
SNP_100666_A_12805	NW_004516937.1	scaffold1844	12805	GG	AA	AA	INTERGENIC		
SNP_100667_A_12816	NW_004516937.1	scaffold1844	12816	AA	TT	TT	INTERGENIC		
SNP_100668_A_12819	NW_004516937.1	scaffold1844	12819	AA	GG	GG	INTERGENIC		
SNP_100669_A_15936	NW_004516937.1	scaffold1844	15936	AA	TT	TT	INTERGENIC		
SNP_100670_A_15950	NW_004516937.1	scaffold1844	15950	AA	GG	GG	INTERGENIC		
SNP_100671_A_15981	NW_004516937.1	scaffold1844	15981	AA	TT	TT	INTERGENIC		
SNP_100672_A_16615	NW_004516937.1	scaffold1844	16615	TT	CC	CC	INTERGENIC		
SNP_100673_A_16947	NW_004516937.1	scaffold1844	16947	CC	TT	TT	INTERGENIC		
SNP_100674_A_34120	NW_004516937.1	scaffold1844	34120	TT	CC	CC	URR	101508861	uncharacterized LOC101508861
SNP_100675_A_34125	NW_004516937.1	scaffold1844	34125	CC	TT	TT	URR	101508861	uncharacterized LOC101508861
SNP_100676_A_34274	NW_004516937.1	scaffold1844	34274	TT	CC	CC	DRR	101509185	cytochrome c oxidase assembly protein COX19-like
SNP_100677_A_34306	NW_004516937.1	scaffold1844	34306	AA	GG	GG	DRR	101509185	cytochrome c oxidase assembly protein COX19-like
SNP_100678_A_34360	NW_004516937.1	scaffold1844	34360	GG	TT	TT	DRR	101509185	cytochrome c oxidase assembly protein COX19-like
SNP_100679_A_34366	NW_004516937.1	scaffold1844	34366	TT	CC	CC	DRR	101509185	cytochrome c oxidase assembly protein COX19-like
SNP_100681_A_55120	NW_004516937.1	scaffold1844	55120	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100682_A_57829	NW_004516937.1	scaffold1844	57829	TT	AA	AA	INTERGENIC		
SNP_100683_A_63396	NW_004516937.1	scaffold1844	63396	CC	AA	AA	DRR	101510586	uncharacterized LOC101510586
SNP_100684_A_76572	NW_004516937.1	scaffold1844	76572	CC	GG	GG	INTERGENIC		
SNP_100685_A_78673	NW_004516937.1	scaffold1844	78673	AA	CC	CC	NON_SYNONYMOUS_CODING	101511225	LON peptidase N-terminal domain and RING finger protein 2-like
SNP_100686_A_79417	NW_004516937.1	scaffold1844	79417	AA	GG	GG	URR	101511225	LON peptidase N-terminal domain and RING finger protein 2-like
SNP_100687_A_79420	NW_004516937.1	scaffold1844	79420	CC	TT	TT	URR	101511225	LON peptidase N-terminal domain and RING finger protein 2-like
SNP_100688_A_82009	NW_004516937.1	scaffold1844	82009	AA	CC	CC	INTERGENIC		
SNP_100689_A_94024	NW_004516937.1	scaffold1844	94024	AA	CC	CC	INTERGENIC		
SNP_100690_A_94085	NW_004516937.1	scaffold1844	94085	TT	AA	AA	INTERGENIC		
SNP_100691_A_94889	NW_004516937.1	scaffold1844	94889	AA	TT	TT	URR	101511544	uncharacterized LOC101511544
SNP_100692_A_96019	NW_004516937.1	scaffold1844	96019	TT	CC	CC	URR	101511544	uncharacterized LOC101511544
SNP_100693_A_96931	NW_004516937.1	scaffold1844	96931	TT	CC	CC	INTERGENIC		
SNP_100694_A_97125	NW_004516937.1	scaffold1844	97125	GG	AA	AA	INTERGENIC		
SNP_100695_A_97142	NW_004516937.1	scaffold1844	97142	TT	GG	GG	INTERGENIC		
SNP_100696_A_97173	NW_004516937.1	scaffold1844	97173	AA	GG	GG	INTERGENIC		
SNP_100697_A_100240	NW_004516937.1	scaffold1844	100240	CC	TT	TT	INTERGENIC		
SNP_100698_A_100702	NW_004516937.1	scaffold1844	100702	GG	AA	AA	INTERGENIC		
SNP_100699_A_100941	NW_004516937.1	scaffold1844	100941	TT	CC	CC	INTERGENIC		
SNP_100700_A_100945	NW_004516937.1	scaffold1844	100945	TT	AA	AA	INTERGENIC		
SNP_100701_A_101014	NW_004516937.1	scaffold1844	101014	TT	CC	CC	INTERGENIC		
SNP_100703_A_104181	NW_004516937.1	scaffold1844	104181	CC	TT	TT	INTRON	101511872	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11330
SNP_100704_A_111679	NW_004516937.1	scaffold1844	111679	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100705_A_112245	NW_004516937.1	scaffold1844	112245	CC	TT	TT	INTERGENIC		
SNP_100706_A_115393	NW_004516937.1	scaffold1844	115393	TT	AA	AA	URR	101512191	protein XRI1-like
SNP_100707_A_115407	NW_004516937.1	scaffold1844	115407	GG	AA	AA	URR	101512191	protein XRI1-like
SNP_100708_A_115416	NW_004516937.1	scaffold1844	115416	AA	CC	CC	URR	101512191	protein XRI1-like
SNP_100709_A_115487	NW_004516937.1	scaffold1844	115487	CC	TT	TT	URR	101512191	protein XRI1-like
SNP_100710_A_115514	NW_004516937.1	scaffold1844	115514	TT	GG	GG	URR	101512191	protein XRI1-like
SNP_100711_A_115520	NW_004516937.1	scaffold1844	115520	AA	TT	TT	URR	101512191	protein XRI1-like
SNP_100712_A_119288	NW_004516937.1	scaffold1844	119288	GG	AA	AA	INTERGENIC		
SNP_100713_A_119442	NW_004516937.1	scaffold1844	119442	GG	AA	AA	INTERGENIC		
SNP_100714_A_119517	NW_004516937.1	scaffold1844	119517	GG	TT	TT	INTERGENIC		
SNP_100715_A_120998	NW_004516937.1	scaffold1844	120998	AA	GG	GG	INTERGENIC		
SNP_100716_A_121176	NW_004516937.1	scaffold1844	121176	CC	AA	AA	INTERGENIC		
SNP_100718_A_123434	NW_004516937.1	scaffold1844	123434	AA	TT	TT	INTERGENIC		
SNP_100719_A_134053	NW_004516937.1	scaffold1844	134053	GG	TT	TT	INTERGENIC		
SNP_100720_A_134194	NW_004516937.1	scaffold1844	134194	TT	AA	AA	INTERGENIC		
SNP_100721_A_134285	NW_004516937.1	scaffold1844	134285	AA	GG	GG	INTERGENIC		
SNP_100722_A_134351	NW_004516937.1	scaffold1844	134351	TT	AA	AA	INTERGENIC		
SNP_100723_A_134376	NW_004516937.1	scaffold1844	134376	AA	TT	TT	INTERGENIC		
SNP_100724_A_134896	NW_004516937.1	scaffold1844	134896	GG	AA	AA	INTERGENIC		
SNP_100726_A_137451	NW_004516937.1	scaffold1844	137451	GG	TT	TT	INTERGENIC		
SNP_100727_A_137455	NW_004516937.1	scaffold1844	137455	GG	TT	TT	INTERGENIC		
SNP_100728_A_137578	NW_004516937.1	scaffold1844	137578	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100729_A_137901	NW_004516937.1	scaffold1844	137901	TT	GG	GG	INTERGENIC		
SNP_100730_A_138893	NW_004516937.1	scaffold1844	138893	CC	TT	TT	INTERGENIC		
SNP_100731_A_142008	NW_004516937.1	scaffold1844	142008	CC	TT	TT	INTRON	101512515	acid phosphatase 1-like
SNP_100732_A_142066	NW_004516937.1	scaffold1844	142066	CC	GG	GG	INTRON	101512515	acid phosphatase 1-like
SNP_100733_A_145038	NW_004516937.1	scaffold1844	145038	GG	TT	TT	URR	101512515	acid phosphatase 1-like
SNP_100734_A_145397	NW_004516937.1	scaffold1844	145397	TT	AA	AA	URR	101512515	acid phosphatase 1-like
SNP_100735_A_145694	NW_004516937.1	scaffold1844	145694	GG	TT	TT	URR	101512515	acid phosphatase 1-like
SNP_100736_A_145873	NW_004516937.1	scaffold1844	145873	GG	TT	TT	INTERGENIC		
SNP_100737_A_146315	NW_004516937.1	scaffold1844	146315	AA	GG	GG	INTERGENIC		
SNP_100738_A_146343	NW_004516937.1	scaffold1844	146343	CC	TT	TT	INTERGENIC		
SNP_100739_A_146531	NW_004516937.1	scaffold1844	146531	AA	GG	GG	INTERGENIC		
SNP_100740_A_146596	NW_004516937.1	scaffold1844	146596	TT	AA	AA	INTERGENIC		
SNP_100741_A_146602	NW_004516937.1	scaffold1844	146602	CC	AA	AA	INTERGENIC		
SNP_100742_A_146739	NW_004516937.1	scaffold1844	146739	AA	TT	TT	INTERGENIC		
SNP_100744_A_148364	NW_004516937.1	scaffold1844	148364	CC	TT	TT	INTERGENIC		
SNP_100745_A_151661	NW_004516937.1	scaffold1844	151661	AA	GG	GG	INTRON	101512824	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_100746_A_154904	NW_004516937.1	scaffold1844	154904	GG	TT	TT	URR	101512824	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_100747_A_155804	NW_004516937.1	scaffold1844	155804	GG	AA	AA	URR	101512824	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_100748_A_155863	NW_004516937.1	scaffold1844	155863	TT	CC	CC	URR	101512824	xyloglucan endotransglucosylase/hydrolase protein 2-like
SNP_100750_A_157438	NW_004516937.1	scaffold1844	157438	TT	CC	CC	INTERGENIC		
SNP_100751_A_157447	NW_004516937.1	scaffold1844	157447	CC	TT	TT	INTERGENIC		
SNP_100752_A_157464	NW_004516937.1	scaffold1844	157464	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100753_A_157534	NW_004516937.1	scaffold1844	157534	TT	CC	CC	INTERGENIC			
SNP_100754_A_157540	NW_004516937.1	scaffold1844	157540	CC	AA	AA	INTERGENIC			
SNP_100755_A_157549	NW_004516937.1	scaffold1844	157549	TT	AA	AA	INTERGENIC			
SNP_100756_A_157821	NW_004516937.1	scaffold1844	157821	TT	AA	AA	INTERGENIC			
SNP_100757_A_163122	NW_004516937.1	scaffold1844	163122	TT	CC	CC	INTERGENIC			
SNP_100758_A_163893	NW_004516937.1	scaffold1844	163893	GG	AA	AA	INTERGENIC			
SNP_100759_A_163901	NW_004516937.1	scaffold1844	163901	GG	AA	AA	INTERGENIC			
SNP_100760_A_164652	NW_004516937.1	scaffold1844	164652	TT	CC	CC	INTERGENIC			
SNP_100763_A_166906	NW_004516937.1	scaffold1844	166906	TT	CC	CC	INTERGENIC			
SNP_100764_A_166980	NW_004516937.1	scaffold1844	166980	TT	CC	CC	INTERGENIC			
SNP_100765_A_167034	NW_004516937.1	scaffold1844	167034	TT	GG	GG	INTERGENIC			
SNP_100766_A_167045	NW_004516937.1	scaffold1844	167045	TT	CC	CC	INTERGENIC			
SNP_100767_A_167090	NW_004516937.1	scaffold1844	167090	AA	GG	GG	INTERGENIC			
SNP_100768_A_167103	NW_004516937.1	scaffold1844	167103	AA	GG	GG	INTERGENIC			
SNP_100769_A_167132	NW_004516937.1	scaffold1844	167132	CC	TT	TT	INTERGENIC			
SNP_100770_A_167141	NW_004516937.1	scaffold1844	167141	CC	TT	TT	INTERGENIC			
SNP_100771_A_167163	NW_004516937.1	scaffold1844	167163	AA	TT	TT	INTERGENIC			
SNP_100772_A_167164	NW_004516937.1	scaffold1844	167164	AA	TT	TT	INTERGENIC			
SNP_100774_A_167317	NW_004516937.1	scaffold1844	167317	GG	TT	TT	INTERGENIC			
SNP_100775_A_167318	NW_004516937.1	scaffold1844	167318	TT	GG	GG	INTERGENIC			
SNP_100776_A_167324	NW_004516937.1	scaffold1844	167324	CC	TT	TT	INTERGENIC			
SNP_100778_A_167462	NW_004516937.1	scaffold1844	167462	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100779_A_167549	NW_004516937.1	scaffold1844	167549	GG	TT	TT	INTERGENIC			
SNP_100780_A_167554	NW_004516937.1	scaffold1844	167554	AA	GG	GG	INTERGENIC			
SNP_100781_A_167602	NW_004516937.1	scaffold1844	167602	CC	TT	TT	INTERGENIC			
SNP_100782_A_167996	NW_004516937.1	scaffold1844	167996	CC	GG	GG	INTERGENIC			
SNP_100783_A_7389	NW_004516938.1	scaffold1845	7389	CC	TT	TT	INTERGENIC			
SNP_100784_A_8057	NW_004516938.1	scaffold1845	8057	TT	CC	CC	INTERGENIC			
SNP_100785_A_15376	NW_004516938.1	scaffold1845	15376	GG	TT	TT	INTERGENIC			
SNP_100786_A_15470	NW_004516938.1	scaffold1845	15470	TT	CC	CC	INTERGENIC			
SNP_100787_A_15483	NW_004516938.1	scaffold1845	15483	AA	GG	GG	INTERGENIC			
SNP_100788_A_15525	NW_004516938.1	scaffold1845	15525	AA	CC	CC	INTERGENIC			
SNP_100790_A_20262	NW_004516938.1	scaffold1845	20262	CC	TT	TT	INTERGENIC			
SNP_100791_A_28566	NW_004516938.1	scaffold1845	28566	AA	GG	GG	INTERGENIC			
SNP_100792_A_28787	NW_004516938.1	scaffold1845	28787	CC	AA	AA	INTERGENIC			
SNP_100793_A_28790	NW_004516938.1	scaffold1845	28790	AA	GG	GG	INTERGENIC			
SNP_100794_A_28820	NW_004516938.1	scaffold1845	28820	AA	CC	CC	INTERGENIC			
SNP_100795_A_28842	NW_004516938.1	scaffold1845	28842	CC	GG	GG	INTERGENIC			
SNP_100796_A_31613	NW_004516938.1	scaffold1845	31613	AA	TT	TT	INTERGENIC			
SNP_100797_A_33267	NW_004516938.1	scaffold1845	33267	AA	TT	TT	INTERGENIC			
SNP_100798_A_34803	NW_004516938.1	scaffold1845	34803	CC	GG	GG	INTERGENIC			
SNP_100799_A_43159	NW_004516938.1	scaffold1845	43159	TT	CC	CC	INTERGENIC			
SNP_100800_A_43267	NW_004516938.1	scaffold1845	43267	GG	AA	AA	INTERGENIC			
SNP_100801_A_45747	NW_004516938.1	scaffold1845	45747	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100802_A_46782	NW_004516938.1	scaffold1845	46782	GG	CC	CC	INTERGENIC			
SNP_100804_A_52808	NW_004516938.1	scaffold1845	52808	TT	GG	GG	INTERGENIC			
SNP_100805_A_53106	NW_004516938.1	scaffold1845	53106	GG	AA	AA	INTERGENIC			
SNP_100806_A_56891	NW_004516938.1	scaffold1845	56891	AA	CC	CC	INTERGENIC			
SNP_100807_A_61997	NW_004516938.1	scaffold1845	61997	GG	AA	AA	INTERGENIC			
SNP_100808_A_63028	NW_004516938.1	scaffold1845	63028	GG	AA	AA	INTERGENIC			
SNP_100809_A_69428	NW_004516938.1	scaffold1845	69428	GG	AA	AA	INTERGENIC			
SNP_100810_A_71247	NW_004516938.1	scaffold1845	71247	GG	TT	TT	INTERGENIC			
SNP_100812_A_81179	NW_004516938.1	scaffold1845	81179	TT	CC	CC	URR	101515331	Unknown function	
SNP_100813_A_82017	NW_004516938.1	scaffold1845	82017	GG	AA	AA	INTERGENIC			
SNP_100814_A_84120	NW_004516938.1	scaffold1845	84120	AA	TT	TT	INTERGENIC			
SNP_100815_A_85111	NW_004516938.1	scaffold1845	85111	GG	AA	AA	INTERGENIC			
SNP_100816_A_98197	NW_004516938.1	scaffold1845	98197	GG	CC	CC	INTERGENIC			
SNP_100817_A_98591	NW_004516938.1	scaffold1845	98591	AA	GG	GG	INTERGENIC			
SNP_100818_A_104511	NW_004516938.1	scaffold1845	104511	TT	CC	CC	URR	101513476	Unknown function	
SNP_100819_A_126546	NW_004516938.1	scaffold1845	126546	AA	GG	GG	INTRON	101515655	phosphoenolpyruvate carboxylase 4-like	
SNP_100820_A_127584	NW_004516938.1	scaffold1845	127584	AA	GG	GG	INTRON	101515655	phosphoenolpyruvate carboxylase 4-like	
SNP_100821_A_5231	NW_004516940.1	scaffold1847	5231	AA	GG	GG	INTERGENIC			
SNP_100822_A_5255	NW_004516940.1	scaffold1847	5255	TT	CC	CC	INTERGENIC			
SNP_100823_A_932	NW_004516941.1	scaffold1848	932	CC	TT	TT	INTERGENIC			
SNP_100824_A_4359	NW_004516941.1	scaffold1848	4359	GG	TT	TT	INTERGENIC			
SNP_100825_A_10934	NW_004516941.1	scaffold1848	10934	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100826_A_10940	NW_004516941.1	scaffold1848	10940	CC	TT	TT	INTERGENIC		
SNP_100827_A_10951	NW_004516941.1	scaffold1848	10951	GG	TT	TT	INTERGENIC		
SNP_100828_A_12050	NW_004516941.1	scaffold1848	12050	AA	GG	GG	DRR	101488410	60S acidic ribosomal protein P1-like
SNP_100829_A_12161	NW_004516941.1	scaffold1848	12161	AA	GG	GG	DRR	101488410	60S acidic ribosomal protein P1-like
SNP_100830_A_12166	NW_004516941.1	scaffold1848	12166	TT	CC	CC	DRR	101488410	60S acidic ribosomal protein P1-like
SNP_100831_A_12207	NW_004516941.1	scaffold1848	12207	AA	GG	GG	DRR	101488410	60S acidic ribosomal protein P1-like
SNP_100832_A_12213	NW_004516941.1	scaffold1848	12213	CC	TT	TT	DRR	101488410	60S acidic ribosomal protein P1-like
SNP_100833_A_64	NW_004516943.1	scaffold1851	64	AA	CC	CC	INTERGENIC		
SNP_100834_A_121	NW_004516943.1	scaffold1851	121	TT	AA	AA	INTERGENIC		
SNP_100835_A_385	NW_004516943.1	scaffold1851	385	TT	CC	CC	INTERGENIC		
SNP_100836_A_539	NW_004516943.1	scaffold1851	539	GG	CC	CC	INTERGENIC		
SNP_100837_A_22142	NW_004516944.1	scaffold1852	22142	TT	AA	AA	INTERGENIC		
SNP_100838_A_42750	NW_004516944.1	scaffold1852	42750	AA	CC	CC	INTERGENIC		
SNP_100839_A_42764	NW_004516944.1	scaffold1852	42764	TT	GG	GG	INTERGENIC		
SNP_100840_A_43156	NW_004516944.1	scaffold1852	43156	CC	TT	TT	INTERGENIC		
SNP_100841_A_43161	NW_004516944.1	scaffold1852	43161	GG	CC	CC	INTERGENIC		
SNP_100842_A_43192	NW_004516944.1	scaffold1852	43192	TT	GG	GG	INTERGENIC		
SNP_100843_A_43307	NW_004516944.1	scaffold1852	43307	AA	GG	GG	INTERGENIC		
SNP_100844_A_55202	NW_004516944.1	scaffold1852	55202	CC	TT	TT	INTERGENIC		
SNP_100845_A_55231	NW_004516944.1	scaffold1852	55231	AA	GG	GG	INTERGENIC		
SNP_100847_A_93824	NW_004516944.1	scaffold1852	93824	GG	TT	TT	INTERGENIC		
SNP_100848_A_93832	NW_004516944.1	scaffold1852	93832	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100849_A_93835	NW_004516944.1	scaffold1852	93835	AA	GG	GG	INTERGENIC			
SNP_100850_A_93988	NW_004516944.1	scaffold1852	93988	TT	GG	GG	INTERGENIC			
SNP_100851_A_94051	NW_004516944.1	scaffold1852	94051	TT	CC	CC	INTERGENIC			
SNP_100852_A_94239	NW_004516944.1	scaffold1852	94239	TT	CC	CC	INTERGENIC			
SNP_100853_A_94271	NW_004516944.1	scaffold1852	94271	AA	TT	TT	INTERGENIC			
SNP_100854_A_94277	NW_004516944.1	scaffold1852	94277	AA	GG	GG	INTERGENIC			
SNP_100855_A_94281	NW_004516944.1	scaffold1852	94281	TT	CC	CC	INTERGENIC			
SNP_100856_A_94296	NW_004516944.1	scaffold1852	94296	CC	TT	TT	INTERGENIC			
SNP_100857_A_94298	NW_004516944.1	scaffold1852	94298	GG	CC	CC	INTERGENIC			
SNP_100858_A_94303	NW_004516944.1	scaffold1852	94303	CC	TT	TT	INTERGENIC			
SNP_100859_A_94307	NW_004516944.1	scaffold1852	94307	TT	CC	CC	INTERGENIC			
SNP_100860_A_94340	NW_004516944.1	scaffold1852	94340	TT	CC	CC	INTERGENIC			
SNP_100862_A_94420	NW_004516944.1	scaffold1852	94420	CC	TT	TT	INTERGENIC			
SNP_100863_A_94454	NW_004516944.1	scaffold1852	94454	AA	GG	GG	INTERGENIC			
SNP_100865_A_94670	NW_004516944.1	scaffold1852	94670	AA	GG	GG	INTERGENIC			
SNP_100866_A_94685	NW_004516944.1	scaffold1852	94685	AA	GG	GG	INTERGENIC			
SNP_100867_A_94707	NW_004516944.1	scaffold1852	94707	GG	AA	AA	INTERGENIC			
SNP_100868_A_94739	NW_004516944.1	scaffold1852	94739	CC	TT	TT	INTERGENIC			
SNP_100870_A_94799	NW_004516944.1	scaffold1852	94799	GG	AA	AA	INTERGENIC			
SNP_100872_A_95104	NW_004516944.1	scaffold1852	95104	AA	TT	TT	INTERGENIC			
SNP_100873_A_95109	NW_004516944.1	scaffold1852	95109	GG	AA	AA	INTERGENIC			
SNP_100874_A_95122	NW_004516944.1	scaffold1852	95122	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100875_A_95143	NW_004516944.1	scaffold1852	95143	TT	AA	AA	INTERGENIC		
SNP_100876_A_95147	NW_004516944.1	scaffold1852	95147	AA	TT	TT	INTERGENIC		
SNP_100877_A_95167	NW_004516944.1	scaffold1852	95167	TT	GG	GG	INTERGENIC		
SNP_100878_A_95191	NW_004516944.1	scaffold1852	95191	TT	CC	CC	INTERGENIC		
SNP_100879_A_95249	NW_004516944.1	scaffold1852	95249	GG	TT	TT	INTERGENIC		
SNP_100880_A_95335	NW_004516944.1	scaffold1852	95335	TT	GG	GG	INTERGENIC		
SNP_100881_A_95380	NW_004516944.1	scaffold1852	95380	TT	GG	GG	INTERGENIC		
SNP_100882_A_101606	NW_004516944.1	scaffold1852	101606	CC	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100883_A_101615	NW_004516944.1	scaffold1852	101615	GG	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100884_A_101955	NW_004516944.1	scaffold1852	101955	TT	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100885_A_101979	NW_004516944.1	scaffold1852	101979	GG	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100886_A_101990	NW_004516944.1	scaffold1852	101990	GG	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100887_A_102199	NW_004516944.1	scaffold1852	102199	GG	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100888_A_102217	NW_004516944.1	scaffold1852	102217	GG	CC	CC	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100889_A_102936	NW_004516944.1	scaffold1852	102936	GG	AA	AA	URR	101489941	non-specific lipid-transfer protein A-like
SNP_100891_A_103023	NW_004516944.1	scaffold1852	103023	CC	TT	TT	INTERGENIC		
SNP_100892_A_103101	NW_004516944.1	scaffold1852	103101	CC	AA	AA	INTERGENIC		
SNP_100893_A_103133	NW_004516944.1	scaffold1852	103133	AA	TT	TT	INTERGENIC		
SNP_100894_A_103134	NW_004516944.1	scaffold1852	103134	TT	AA	AA	INTERGENIC		
SNP_100895_A_103192	NW_004516944.1	scaffold1852	103192	TT	AA	AA	INTERGENIC		
SNP_100897_A_103457	NW_004516944.1	scaffold1852	103457	GG	AA	AA	INTERGENIC		
SNP_100898_A_103458	NW_004516944.1	scaffold1852	103458	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100899_A_103499	NW_004516944.1	scaffold1852	103499	TT	CC	CC	INTERGENIC			
SNP_100900_A_103552	NW_004516944.1	scaffold1852	103552	CC	TT	TT	INTERGENIC			
SNP_100901_A_103561	NW_004516944.1	scaffold1852	103561	TT	CC	CC	INTERGENIC			
SNP_100902_A_103577	NW_004516944.1	scaffold1852	103577	GG	AA	AA	INTERGENIC			
SNP_100903_A_103630	NW_004516944.1	scaffold1852	103630	AA	GG	GG	INTERGENIC			
SNP_100904_A_10528	NW_004516945.1	scaffold1854	10528	TT	AA	AA	INTERGENIC			
SNP_100905_A_10690	NW_004516945.1	scaffold1854	10690	CC	AA	AA	INTERGENIC			
SNP_100906_A_39785	NW_004516945.1	scaffold1854	39785	TT	AA	AA	INTERGENIC			
SNP_100907_A_49964	NW_004516945.1	scaffold1854	49964	AA	GG	GG	INTERGENIC			
SNP_100908_A_50045	NW_004516945.1	scaffold1854	50045	GG	AA	AA	INTERGENIC			
SNP_100909_A_6790	NW_004516947.1	scaffold1856	6790	GG	AA	AA	INTERGENIC			
SNP_100910_A_333	NW_004516949.1	scaffold1858	333	GG	TT	TT	INTERGENIC			
SNP_100912_A_12407	NW_004516951.1	scaffold1861	12407	CC	AA	AA	INTERGENIC			
SNP_100913_A_12439	NW_004516951.1	scaffold1861	12439	AA	GG	GG	INTERGENIC			
SNP_100914_A_12478	NW_004516951.1	scaffold1861	12478	TT	CC	CC	INTERGENIC			
SNP_100915_A_12778	NW_004516951.1	scaffold1861	12778	TT	CC	CC	INTERGENIC			
SNP_100916_A_12793	NW_004516951.1	scaffold1861	12793	AA	GG	GG	INTERGENIC			
SNP_100917_A_4619	NW_004516953.1	scaffold1864	4619	CC	TT	TT	INTERGENIC			
SNP_100918_A_5523	NW_004516953.1	scaffold1864	5523	TT	AA	AA	INTERGENIC			
SNP_100919_A_5603	NW_004516953.1	scaffold1864	5603	CC	TT	TT	INTERGENIC			
SNP_100920_A_5613	NW_004516953.1	scaffold1864	5613	CC	TT	TT	INTERGENIC			
SNP_100921_A_5753	NW_004516953.1	scaffold1864	5753	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100922_A_5754	NW_004516953.1	scaffold1864	5754	CC	TT	TT	INTERGENIC			
SNP_100923_A_5758	NW_004516953.1	scaffold1864	5758	TT	CC	CC	INTERGENIC			
SNP_100924_A_5762	NW_004516953.1	scaffold1864	5762	AA	GG	GG	INTERGENIC			
SNP_100925_A_5789	NW_004516953.1	scaffold1864	5789	TT	CC	CC	INTERGENIC			
SNP_100927_A_6058	NW_004516953.1	scaffold1864	6058	CC	AA	AA	INTERGENIC			
SNP_100928_A_10359	NW_004516953.1	scaffold1864	10359	CC	TT	TT	INTERGENIC			
SNP_100929_A_10477	NW_004516953.1	scaffold1864	10477	CC	AA	AA	INTERGENIC			
SNP_100930_A_10841	NW_004516953.1	scaffold1864	10841	TT	CC	CC	INTERGENIC			
SNP_100931_A_11585	NW_004516953.1	scaffold1864	11585	AA	GG	GG	INTERGENIC			
SNP_100932_A_14634	NW_004516953.1	scaffold1864	14634	GG	AA	AA	INTERGENIC			
SNP_100933_A_14640	NW_004516953.1	scaffold1864	14640	CC	TT	TT	INTERGENIC			
SNP_100935_A_14907	NW_004516953.1	scaffold1864	14907	CC	TT	TT	INTERGENIC			
SNP_100936_A_15049	NW_004516953.1	scaffold1864	15049	CC	TT	TT	INTERGENIC			
SNP_100937_A_15257	NW_004516953.1	scaffold1864	15257	TT	GG	GG	INTERGENIC			
SNP_100938_A_15269	NW_004516953.1	scaffold1864	15269	GG	AA	AA	INTERGENIC			
SNP_100939_A_20060	NW_004516953.1	scaffold1864	20060	GG	AA	AA	INTERGENIC			
SNP_100940_A_4320	NW_004516955.1	scaffold1866	4320	CC	TT	TT	INTERGENIC			
SNP_100942_A_4435	NW_004516955.1	scaffold1866	4435	AA	GG	GG	INTERGENIC			
SNP_100943_A_4437	NW_004516955.1	scaffold1866	4437	CC	TT	TT	INTERGENIC			
SNP_100944_A_4475	NW_004516955.1	scaffold1866	4475	GG	AA	AA	INTERGENIC			
SNP_100945_A_4480	NW_004516955.1	scaffold1866	4480	AA	GG	GG	INTERGENIC			
SNP_100946_A_4510	NW_004516955.1	scaffold1866	4510	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100947_A_4520	NW_004516955.1	scaffold1866	4520	AA	GG	GG	INTERGENIC		
SNP_100948_A_4660	NW_004516955.1	scaffold1866	4660	GG	TT	TT	INTERGENIC		
SNP_100949_A_4688	NW_004516955.1	scaffold1866	4688	AA	TT	TT	INTERGENIC		
SNP_100950_A_4836	NW_004516955.1	scaffold1866	4836	GG	TT	TT	INTERGENIC		
SNP_100952_A_50333	NW_004516955.1	scaffold1866	50333	AA	GG	GG	DRR	101491861	putative F-box protein At3g16210
SNP_100954_A_62883	NW_004516955.1	scaffold1866	62883	CC	TT	TT	INTERGENIC		
SNP_100955_A_63070	NW_004516955.1	scaffold1866	63070	TT	AA	AA	INTERGENIC		
SNP_100957_A_92625	NW_004516955.1	scaffold1866	92625	TT	AA	AA	INTERGENIC		
SNP_100958_A_100408	NW_004516955.1	scaffold1866	100408	AA	GG	GG	INTERGENIC		
SNP_100959_A_100508	NW_004516955.1	scaffold1866	100508	CC	TT	TT	INTERGENIC		
SNP_100960_A_103242	NW_004516955.1	scaffold1866	103242	TT	AA	AA	INTERGENIC		
SNP_100962_A_103265	NW_004516955.1	scaffold1866	103265	TT	GG	GG	INTERGENIC		
SNP_100964_A_115673	NW_004516955.1	scaffold1866	115673	TT	AA	AA	INTERGENIC		
SNP_100966_A_135305	NW_004516955.1	scaffold1866	135305	CC	TT	TT	INTERGENIC		
SNP_100967_A_143333	NW_004516955.1	scaffold1866	143333	CC	TT	TT	INTERGENIC		
SNP_100968_A_47551	NW_004516956.1	scaffold1867	47551	TT	CC	CC	INTERGENIC		
SNP_100969_A_58984	NW_004516956.1	scaffold1867	58984	GG	TT	TT	INTERGENIC		
SNP_100970_A_70977	NW_004516956.1	scaffold1867	70977	TT	CC	CC	INTERGENIC		
SNP_100971_A_70991	NW_004516956.1	scaffold1867	70991	CC	TT	TT	INTERGENIC		
SNP_100972_A_71006	NW_004516956.1	scaffold1867	71006	GG	AA	AA	INTERGENIC		
SNP_100973_A_71012	NW_004516956.1	scaffold1867	71012	AA	CC	CC	INTERGENIC		
SNP_100974_A_71018	NW_004516956.1	scaffold1867	71018	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_100975_A_76922	NW_004516956.1	scaffold1867	76922	CC	TT	TT	INTERGENIC			
SNP_100976_A_96083	NW_004516956.1	scaffold1867	96083	TT	AA	AA	INTERGENIC			
SNP_100977_A_96395	NW_004516956.1	scaffold1867	96395	AA	GG	GG	INTERGENIC			
SNP_100978_A_96424	NW_004516956.1	scaffold1867	96424	AA	GG	GG	INTERGENIC			
SNP_100979_A_96814	NW_004516956.1	scaffold1867	96814	AA	GG	GG	INTERGENIC			
SNP_100980_A_163188	NW_004516956.1	scaffold1867	163188	TT	CC	CC	INTERGENIC			
SNP_100981_A_163285	NW_004516956.1	scaffold1867	163285	AA	CC	CC	INTERGENIC			
SNP_100982_A_163455	NW_004516956.1	scaffold1867	163455	TT	CC	CC	INTERGENIC			
SNP_100983_A_163467	NW_004516956.1	scaffold1867	163467	AA	GG	GG	INTERGENIC			
SNP_100984_A_163529	NW_004516956.1	scaffold1867	163529	CC	TT	TT	INTERGENIC			
SNP_100985_A_164369	NW_004516956.1	scaffold1867	164369	CC	TT	TT	INTERGENIC			
SNP_100986_A_164390	NW_004516956.1	scaffold1867	164390	CC	AA	AA	INTERGENIC			
SNP_100987_A_172572	NW_004516956.1	scaffold1867	172572	AA	TT	TT	INTERGENIC			
SNP_100988_A_200788	NW_004516956.1	scaffold1867	200788	AA	GG	GG	INTERGENIC			
SNP_100990_A_228721	NW_004516956.1	scaffold1867	228721	GG	AA	AA	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100992_A_233738	NW_004516956.1	scaffold1867	233738	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100993_A_237465	NW_004516956.1	scaffold1867	237465	GG	AA	AA	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100994_A_237467	NW_004516956.1	scaffold1867	237467	CC	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100995_A_237476	NW_004516956.1	scaffold1867	237476	AA	GG	GG	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100996_A_237494	NW_004516956.1	scaffold1867	237494	CC	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100997_A_237506	NW_004516956.1	scaffold1867	237506	AA	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like	
SNP_100998_A_237510	NW_004516956.1	scaffold1867	237510	CC	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_100999_A_237512	NW_004516956.1	scaffold1867	237512	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101000_A_237520	NW_004516956.1	scaffold1867	237520	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101001_A_237521	NW_004516956.1	scaffold1867	237521	CC	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101002_A_237539	NW_004516956.1	scaffold1867	237539	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101003_A_237566	NW_004516956.1	scaffold1867	237566	CC	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101004_A_237644	NW_004516956.1	scaffold1867	237644	AA	GG	GG	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101005_A_237650	NW_004516956.1	scaffold1867	237650	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101006_A_237661	NW_004516956.1	scaffold1867	237661	AA	GG	GG	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101007_A_237662	NW_004516956.1	scaffold1867	237662	TT	AA	AA	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101008_A_237713	NW_004516956.1	scaffold1867	237713	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101009_A_237715	NW_004516956.1	scaffold1867	237715	AA	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101010_A_255959	NW_004516956.1	scaffold1867	255959	CC	AA	AA	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101011_A_255967	NW_004516956.1	scaffold1867	255967	TT	CC	CC	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101012_A_257111	NW_004516956.1	scaffold1867	257111	AA	TT	TT	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101013_A_262480	NW_004516956.1	scaffold1867	262480	AA	GG	GG	INTRON	101494999	diacylglycerol kinase 4-like
SNP_101014_A_310647	NW_004516956.1	scaffold1867	310647	TT	CC	CC	INTERGENIC		
SNP_101015_A_314805	NW_004516956.1	scaffold1867	314805	AA	GG	GG	INTERGENIC		
SNP_101016_A_314824	NW_004516956.1	scaffold1867	314824	TT	CC	CC	INTERGENIC		
SNP_101017_A_314826	NW_004516956.1	scaffold1867	314826	GG	TT	TT	INTERGENIC		
SNP_101018_A_336779	NW_004516956.1	scaffold1867	336779	AA	GG	GG	INTERGENIC		
SNP_101019_A_468	NW_004516957.1	scaffold1868	468	GG	TT	TT	INTRON	101496959	ATP-dependent DNA helicase RRM3-like
SNP_101020_A_175	NW_004516958.1	scaffold1869	175	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101021_A_419	NW_004516958.1	scaffold1869	419	TT	GG	GG	INTERGENIC			
SNP_101022_A_625	NW_004516958.1	scaffold1869	625	GG	CC	CC	INTERGENIC			
SNP_101023_A_666	NW_004516958.1	scaffold1869	666	CC	TT	TT	INTERGENIC			
SNP_101024_A_808	NW_004516958.1	scaffold1869	808	AA	TT	TT	INTERGENIC			
SNP_101025_A_840	NW_004516958.1	scaffold1869	840	AA	GG	GG	INTERGENIC			
SNP_101026_A_2083	NW_004516958.1	scaffold1869	2083	AA	GG	GG	INTERGENIC			
SNP_101027_A_12223	NW_004516958.1	scaffold1869	12223	GG	CC	CC	INTERGENIC			
SNP_101028_A_12518	NW_004516958.1	scaffold1869	12518	GG	AA	AA	INTERGENIC			
SNP_101029_A_12532	NW_004516958.1	scaffold1869	12532	TT	CC	CC	INTERGENIC			
SNP_101030_A_12533	NW_004516958.1	scaffold1869	12533	CC	GG	GG	INTERGENIC			
SNP_101032_A_14200	NW_004516958.1	scaffold1869	14200	GG	AA	AA	INTERGENIC			
SNP_101033_A_14315	NW_004516958.1	scaffold1869	14315	CC	AA	AA	INTERGENIC			
SNP_101034_A_16230	NW_004516958.1	scaffold1869	16230	AA	TT	TT	INTERGENIC			
SNP_101035_A_16245	NW_004516958.1	scaffold1869	16245	TT	CC	CC	INTERGENIC			
SNP_101036_A_16642	NW_004516958.1	scaffold1869	16642	AA	GG	GG	INTERGENIC			
SNP_101037_A_16690	NW_004516958.1	scaffold1869	16690	AA	GG	GG	INTERGENIC			
SNP_101038_A_16756	NW_004516958.1	scaffold1869	16756	AA	GG	GG	INTERGENIC			
SNP_101039_A_16786	NW_004516958.1	scaffold1869	16786	CC	TT	TT	INTERGENIC			
SNP_101040_A_17012	NW_004516958.1	scaffold1869	17012	CC	TT	TT	INTERGENIC			
SNP_101041_A_18846	NW_004516958.1	scaffold1869	18846	CC	GG	GG	INTERGENIC			
SNP_101042_A_18883	NW_004516958.1	scaffold1869	18883	TT	GG	GG	INTERGENIC			
SNP_101043_A_18929	NW_004516958.1	scaffold1869	18929	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101044_A_18973	NW_004516958.1	scaffold1869	18973	CC	TT	TT	INTERGENIC			
SNP_101045_A_18985	NW_004516958.1	scaffold1869	18985	CC	TT	TT	INTERGENIC			
SNP_101047_A_19154	NW_004516958.1	scaffold1869	19154	GG	AA	AA	INTERGENIC			
SNP_101048_A_19167	NW_004516958.1	scaffold1869	19167	TT	CC	CC	INTERGENIC			
SNP_101049_A_19278	NW_004516958.1	scaffold1869	19278	GG	AA	AA	INTERGENIC			
SNP_101050_A_19302	NW_004516958.1	scaffold1869	19302	AA	GG	GG	INTERGENIC			
SNP_101051_A_19380	NW_004516958.1	scaffold1869	19380	CC	TT	TT	INTERGENIC			
SNP_101052_A_19603	NW_004516958.1	scaffold1869	19603	CC	TT	TT	INTERGENIC			
SNP_101053_A_19609	NW_004516958.1	scaffold1869	19609	TT	CC	CC	INTERGENIC			
SNP_101054_A_19757	NW_004516958.1	scaffold1869	19757	CC	AA	AA	INTERGENIC			
SNP_101055_A_19811	NW_004516958.1	scaffold1869	19811	GG	AA	AA	INTERGENIC			
SNP_101056_A_19847	NW_004516958.1	scaffold1869	19847	CC	AA	AA	INTERGENIC			
SNP_101057_A_19950	NW_004516958.1	scaffold1869	19950	CC	AA	AA	INTERGENIC			
SNP_101058_A_19962	NW_004516958.1	scaffold1869	19962	AA	TT	TT	INTERGENIC			
SNP_101060_A_20064	NW_004516958.1	scaffold1869	20064	TT	GG	GG	INTERGENIC			
SNP_101061_A_20228	NW_004516958.1	scaffold1869	20228	AA	CC	CC	INTERGENIC			
SNP_101062_A_20356	NW_004516958.1	scaffold1869	20356	AA	GG	GG	INTERGENIC			
SNP_101063_A_20419	NW_004516958.1	scaffold1869	20419	TT	CC	CC	INTERGENIC			
SNP_101064_A_21103	NW_004516958.1	scaffold1869	21103	TT	GG	GG	INTERGENIC			
SNP_101065_A_21538	NW_004516958.1	scaffold1869	21538	GG	AA	AA	INTERGENIC			
SNP_101066_A_21555	NW_004516958.1	scaffold1869	21555	TT	AA	AA	INTERGENIC			
SNP_101067_A_24480	NW_004516958.1	scaffold1869	24480	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101068_A_24516	NW_004516958.1	scaffold1869	24516	GG	AA	AA	INTERGENIC			
SNP_101069_A_24564	NW_004516958.1	scaffold1869	24564	TT	CC	CC	INTERGENIC			
SNP_101070_A_11200	NW_004516959.1	scaffold1870	11200	CC	TT	TT	INTERGENIC			
SNP_101071_A_13614	NW_004516959.1	scaffold1870	13614	CC	TT	TT	INTERGENIC			
SNP_101072_A_13621	NW_004516959.1	scaffold1870	13621	GG	AA	AA	INTERGENIC			
SNP_101073_A_13624	NW_004516959.1	scaffold1870	13624	GG	AA	AA	INTERGENIC			
SNP_101074_A_13636	NW_004516959.1	scaffold1870	13636	AA	GG	GG	INTERGENIC			
SNP_101075_A_20986	NW_004516959.1	scaffold1870	20986	TT	CC	CC	INTERGENIC			
SNP_101077_A_21982	NW_004516960.1	scaffold1872	21982	GG	TT	TT	INTERGENIC			
SNP_101078_A_22004	NW_004516960.1	scaffold1872	22004	CC	TT	TT	INTERGENIC			
SNP_101079_A_22536	NW_004516960.1	scaffold1872	22536	TT	CC	CC	INTERGENIC			
SNP_101080_A_22556	NW_004516960.1	scaffold1872	22556	CC	TT	TT	INTERGENIC			
SNP_101081_A_22564	NW_004516960.1	scaffold1872	22564	TT	AA	AA	INTERGENIC			
SNP_101082_A_2518	NW_004516961.1	scaffold1874	2518	GG	TT	TT	INTERGENIC			
SNP_101083_A_4968	NW_004516962.1	scaffold1878	4968	AA	GG	GG	INTERGENIC			
SNP_101084_A_5839	NW_004516962.1	scaffold1878	5839	AA	TT	TT	INTERGENIC			
SNP_101085_A_6242	NW_004516962.1	scaffold1878	6242	TT	AA	AA	INTERGENIC			
SNP_101087_A_8994	NW_004516962.1	scaffold1878	8994	TT	AA	AA	INTERGENIC			
SNP_101088_A_11565	NW_004516962.1	scaffold1878	11565	GG	CC	CC	INTERGENIC			
SNP_101089_A_11941	NW_004516962.1	scaffold1878	11941	AA	CC	CC	INTERGENIC			
SNP_101090_A_16944	NW_004516962.1	scaffold1878	16944	TT	GG	GG	INTERGENIC			
SNP_101091_A_20180	NW_004516962.1	scaffold1878	20180	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101092_A_21733	NW_004516962.1	scaffold1878	21733	TT	CC	CC	INTERGENIC			
SNP_101093_A_26232	NW_004516962.1	scaffold1878	26232	CC	TT	TT	INTERGENIC			
SNP_101094_A_26582	NW_004516962.1	scaffold1878	26582	AA	GG	GG	INTERGENIC			
SNP_101095_A_26758	NW_004516962.1	scaffold1878	26758	GG	TT	TT	INTERGENIC			
SNP_101096_A_28978	NW_004516962.1	scaffold1878	28978	GG	AA	AA	INTERGENIC			
SNP_101097_A_32839	NW_004516962.1	scaffold1878	32839	CC	TT	TT	INTERGENIC			
SNP_101098_A_33579	NW_004516962.1	scaffold1878	33579	AA	GG	GG	INTERGENIC			
SNP_101099_A_40201	NW_004516962.1	scaffold1878	40201	TT	CC	CC	INTERGENIC			
SNP_101101_A_40520	NW_004516962.1	scaffold1878	40520	TT	CC	CC	INTERGENIC			
SNP_101102_A_40549	NW_004516962.1	scaffold1878	40549	CC	GG	GG	INTERGENIC			
SNP_101103_A_40558	NW_004516962.1	scaffold1878	40558	AA	CC	CC	INTERGENIC			
SNP_101104_A_40603	NW_004516962.1	scaffold1878	40603	CC	TT	TT	INTERGENIC			
SNP_101105_A_40607	NW_004516962.1	scaffold1878	40607	GG	AA	AA	INTERGENIC			
SNP_101106_A_40614	NW_004516962.1	scaffold1878	40614	TT	CC	CC	INTERGENIC			
SNP_101107_A_40624	NW_004516962.1	scaffold1878	40624	AA	GG	GG	INTERGENIC			
SNP_101108_A_40645	NW_004516962.1	scaffold1878	40645	AA	GG	GG	INTERGENIC			
SNP_101110_A_40686	NW_004516962.1	scaffold1878	40686	AA	GG	GG	INTERGENIC			
SNP_101111_A_40768	NW_004516962.1	scaffold1878	40768	AA	GG	GG	INTERGENIC			
SNP_101112_A_44851	NW_004516962.1	scaffold1878	44851	CC	TT	TT	INTERGENIC			
SNP_101113_A_44949	NW_004516962.1	scaffold1878	44949	GG	TT	TT	INTERGENIC			
SNP_101115_A_45231	NW_004516962.1	scaffold1878	45231	GG	AA	AA	INTERGENIC			
SNP_101116_A_48200	NW_004516962.1	scaffold1878	48200	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101117_A_48336	NW_004516962.1	scaffold1878	48336	CC	TT	TT	INTERGENIC			
SNP_101118_A_48621	NW_004516962.1	scaffold1878	48621	TT	GG	GG	INTERGENIC			
SNP_101119_A_49242	NW_004516962.1	scaffold1878	49242	GG	AA	AA	INTERGENIC			
SNP_101120_A_52440	NW_004516962.1	scaffold1878	52440	TT	CC	CC	INTERGENIC			
SNP_101121_A_52441	NW_004516962.1	scaffold1878	52441	AA	TT	TT	INTERGENIC			
SNP_101122_A_55649	NW_004516962.1	scaffold1878	55649	AA	TT	TT	INTERGENIC			
SNP_101124_A_69347	NW_004516962.1	scaffold1878	69347	GG	TT	TT	INTERGENIC			
SNP_101125_A_69565	NW_004516962.1	scaffold1878	69565	TT	CC	CC	INTERGENIC			
SNP_101127_A_76669	NW_004516962.1	scaffold1878	76669	AA	GG	GG	INTERGENIC			
SNP_101129_A_77999	NW_004516962.1	scaffold1878	77999	AA	GG	GG	INTERGENIC			
SNP_101130_A_237	NW_004516967.1	scaffold1885	237	TT	AA	AA	INTERGENIC			
SNP_101131_A_500	NW_004516967.1	scaffold1885	500	AA	TT	TT	INTERGENIC			
SNP_101132_A_501	NW_004516967.1	scaffold1885	501	TT	AA	AA	INTERGENIC			
SNP_101133_A_521	NW_004516967.1	scaffold1885	521	TT	CC	CC	INTERGENIC			
SNP_101134_A_538	NW_004516967.1	scaffold1885	538	GG	TT	TT	INTERGENIC			
SNP_101135_A_559	NW_004516967.1	scaffold1885	559	AA	CC	CC	INTERGENIC			
SNP_101136_A_618	NW_004516967.1	scaffold1885	618	TT	GG	GG	INTERGENIC			
SNP_101137_A_965	NW_004516967.1	scaffold1885	965	TT	CC	CC	INTERGENIC			
SNP_101138_A_2006	NW_004516967.1	scaffold1885	2006	TT	GG	GG	INTERGENIC			
SNP_101139_A_2043	NW_004516967.1	scaffold1885	2043	GG	CC	CC	INTERGENIC			
SNP_101140_A_2093	NW_004516967.1	scaffold1885	2093	CC	AA	AA	INTERGENIC			
SNP_101141_A_2107	NW_004516967.1	scaffold1885	2107	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101142_A_2267	NW_004516967.1	scaffold1885	2267	CC	GG	GG	INTERGENIC			
SNP_101143_A_2319	NW_004516967.1	scaffold1885	2319	AA	CC	CC	INTERGENIC			
SNP_101144_A_2325	NW_004516967.1	scaffold1885	2325	TT	GG	GG	INTERGENIC			
SNP_101145_A_2541	NW_004516967.1	scaffold1885	2541	TT	CC	CC	INTERGENIC			
SNP_101146_A_2555	NW_004516967.1	scaffold1885	2555	AA	TT	TT	INTERGENIC			
SNP_101147_A_2683	NW_004516967.1	scaffold1885	2683	AA	GG	GG	INTERGENIC			
SNP_101148_A_2695	NW_004516967.1	scaffold1885	2695	TT	AA	AA	INTERGENIC			
SNP_101149_A_2763	NW_004516967.1	scaffold1885	2763	GG	TT	TT	INTERGENIC			
SNP_101150_A_2963	NW_004516967.1	scaffold1885	2963	TT	CC	CC	INTERGENIC			
SNP_101151_A_3086	NW_004516967.1	scaffold1885	3086	CC	TT	TT	INTERGENIC			
SNP_101152_A_5279	NW_004516967.1	scaffold1885	5279	TT	AA	AA	INTERGENIC			
SNP_101153_A_8073	NW_004516967.1	scaffold1885	8073	AA	TT	TT	INTERGENIC			
SNP_101155_A_12764	NW_004516967.1	scaffold1885	12764	TT	CC	CC	INTERGENIC			
SNP_101156_A_13114	NW_004516967.1	scaffold1885	13114	AA	CC	CC	INTERGENIC			
SNP_101157_A_13120	NW_004516967.1	scaffold1885	13120	TT	CC	CC	INTERGENIC			
SNP_101158_A_13142	NW_004516967.1	scaffold1885	13142	AA	GG	GG	INTERGENIC			
SNP_101159_A_13543	NW_004516967.1	scaffold1885	13543	TT	CC	CC	INTERGENIC			
SNP_101160_A_21516	NW_004516967.1	scaffold1885	21516	AA	TT	TT	INTERGENIC			
SNP_101161_A_21672	NW_004516967.1	scaffold1885	21672	CC	AA	AA	INTERGENIC			
SNP_101162_A_30407	NW_004516967.1	scaffold1885	30407	TT	CC	CC	INTERGENIC			
SNP_101163_A_39606	NW_004516967.1	scaffold1885	39606	AA	CC	CC	INTERGENIC			
SNP_101164_A_39783	NW_004516967.1	scaffold1885	39783	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101165_A_40614	NW_004516967.1	scaffold1885	40614	CC	AA	AA	INTERGENIC			
SNP_101167_A_42432	NW_004516967.1	scaffold1885	42432	AA	GG	GG	INTERGENIC			
SNP_101168_A_42540	NW_004516967.1	scaffold1885	42540	TT	CC	CC	INTERGENIC			
SNP_101169_A_42833	NW_004516967.1	scaffold1885	42833	TT	CC	CC	INTERGENIC			
SNP_101170_A_43818	NW_004516967.1	scaffold1885	43818	AA	GG	GG	INTERGENIC			
SNP_101171_A_45434	NW_004516967.1	scaffold1885	45434	TT	GG	GG	INTERGENIC			
SNP_101172_A_46767	NW_004516967.1	scaffold1885	46767	GG	AA	AA	INTERGENIC			
SNP_101173_A_46787	NW_004516967.1	scaffold1885	46787	AA	TT	TT	INTERGENIC			
SNP_101174_A_46818	NW_004516967.1	scaffold1885	46818	TT	GG	GG	INTERGENIC			
SNP_101175_A_47190	NW_004516967.1	scaffold1885	47190	TT	CC	CC	INTERGENIC			
SNP_101178_A_48131	NW_004516967.1	scaffold1885	48131	CC	AA	AA	INTERGENIC			
SNP_101179_A_3420	NW_004516968.1	scaffold1886	3420	CC	TT	TT	INTERGENIC			
SNP_101182_A_18289	NW_004516968.1	scaffold1886	18289	CC	TT	TT	INTERGENIC			
SNP_101183_A_64	NW_004516969.1	scaffold1888	64	GG	AA	AA	INTERGENIC			
SNP_101184_A_67	NW_004516969.1	scaffold1888	67	GG	AA	AA	INTERGENIC			
SNP_101185_A_71	NW_004516969.1	scaffold1888	71	TT	CC	CC	INTERGENIC			
SNP_101186_A_94	NW_004516969.1	scaffold1888	94	CC	AA	AA	INTERGENIC			
SNP_101187_A_228	NW_004516969.1	scaffold1888	228	GG	AA	AA	INTERGENIC			
SNP_101188_A_383	NW_004516969.1	scaffold1888	383	TT	CC	CC	INTERGENIC			
SNP_101190_A_533	NW_004516969.1	scaffold1888	533	AA	CC	CC	INTERGENIC			
SNP_101191_A_588	NW_004516969.1	scaffold1888	588	AA	GG	GG	INTERGENIC			
SNP_101192_A_658	NW_004516969.1	scaffold1888	658	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101193_A_835	NW_004516969.1	scaffold1888	835	AA	GG	GG	INTERGENIC			
SNP_101195_A_9353	NW_004516970.1	scaffold1891	9353	GG	CC	CC	INTERGENIC			
SNP_101196_A_101	NW_004516972.1	scaffold1893	101	CC	TT	TT	INTERGENIC			
SNP_101197_A_130	NW_004516972.1	scaffold1893	130	CC	GG	GG	INTERGENIC			
SNP_101198_A_151	NW_004516972.1	scaffold1893	151	CC	GG	GG	INTERGENIC			
SNP_101199_A_183	NW_004516972.1	scaffold1893	183	CC	TT	TT	INTERGENIC			
SNP_101200_A_506	NW_004516972.1	scaffold1893	506	CC	TT	TT	INTERGENIC			
SNP_101201_A_2452	NW_004516972.1	scaffold1893	2452	TT	GG	GG	INTERGENIC			
SNP_101202_A_15271	NW_004516972.1	scaffold1893	15271	GG	AA	AA	INTERGENIC			
SNP_101203_A_15793	NW_004516972.1	scaffold1893	15793	TT	GG	GG	INTERGENIC			
SNP_101204_A_15796	NW_004516972.1	scaffold1893	15796	TT	AA	AA	INTERGENIC			
SNP_101205_A_15812	NW_004516972.1	scaffold1893	15812	GG	AA	AA	INTERGENIC			
SNP_101206_A_16055	NW_004516972.1	scaffold1893	16055	AA	GG	GG	INTERGENIC			
SNP_101207_A_16857	NW_004516972.1	scaffold1893	16857	GG	AA	AA	INTERGENIC			
SNP_101208_A_17454	NW_004516972.1	scaffold1893	17454	TT	AA	AA	INTERGENIC			
SNP_101209_A_1530	NW_004516973.1	scaffold1894	1530	AA	CC	CC	INTERGENIC			
SNP_101210_A_1879	NW_004516973.1	scaffold1894	1879	TT	CC	CC	INTERGENIC			
SNP_101211_A_2685	NW_004516973.1	scaffold1894	2685	CC	GG	GG	INTERGENIC			
SNP_101212_A_9960	NW_004516973.1	scaffold1894	9960	AA	GG	GG	INTERGENIC			
SNP_101213_A_10165	NW_004516974.1	scaffold1896	10165	CC	GG	GG	INTERGENIC			
SNP_101214_A_13796	NW_004516974.1	scaffold1896	13796	GG	CC	CC	INTERGENIC			
SNP_101215_A_18633	NW_004516974.1	scaffold1896	18633	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101216_A_11738	NW_004516975.1	scaffold1897	11738	TT	GG	GG	INTERGENIC			
SNP_101217_A_2784	NW_004516977.1	scaffold1899	2784	CC	TT	TT	INTERGENIC			
SNP_101219_A_33568	NW_004516977.1	scaffold1899	33568	AA	GG	GG	INTERGENIC			
SNP_101220_A_33816	NW_004516977.1	scaffold1899	33816	TT	CC	CC	INTERGENIC			
SNP_101221_A_64	NW_004516981.1	scaffold1903	64	AA	GG	GG	INTERGENIC			
SNP_101222_A_128	NW_004516981.1	scaffold1903	128	GG	CC	CC	INTERGENIC			
SNP_101224_A_1739	NW_004516981.1	scaffold1903	1739	GG	AA	AA	INTERGENIC			
SNP_101225_A_2071	NW_004516981.1	scaffold1903	2071	GG	CC	CC	INTERGENIC			
SNP_101226_A_2115	NW_004516981.1	scaffold1903	2115	CC	GG	GG	INTERGENIC			
SNP_101227_A_2206	NW_004516981.1	scaffold1903	2206	AA	TT	TT	INTERGENIC			
SNP_101228_A_1107	NW_004516982.1	scaffold1904	1107	TT	CC	CC	INTERGENIC			
SNP_101229_A_1109	NW_004516982.1	scaffold1904	1109	TT	GG	GG	INTERGENIC			
SNP_101230_A_1116	NW_004516982.1	scaffold1904	1116	AA	GG	GG	INTERGENIC			
SNP_101231_A_1134	NW_004516982.1	scaffold1904	1134	CC	TT	TT	INTERGENIC			
SNP_101232_A_1149	NW_004516982.1	scaffold1904	1149	AA	TT	TT	INTERGENIC			
SNP_101233_A_1173	NW_004516982.1	scaffold1904	1173	AA	GG	GG	INTERGENIC			
SNP_101234_A_1215	NW_004516982.1	scaffold1904	1215	AA	TT	TT	INTERGENIC			
SNP_101235_A_1487	NW_004516982.1	scaffold1904	1487	CC	GG	GG	INTERGENIC			
SNP_101236_A_1527	NW_004516982.1	scaffold1904	1527	GG	AA	AA	INTERGENIC			
SNP_101237_A_1575	NW_004516982.1	scaffold1904	1575	TT	CC	CC	INTERGENIC			
SNP_101238_A_6413	NW_004516982.1	scaffold1904	6413	TT	CC	CC	INTERGENIC			
SNP_101239_A_6430	NW_004516982.1	scaffold1904	6430	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101240_A_6433	NW_004516982.1	scaffold1904	6433	TT	AA	AA	INTERGENIC			
SNP_101241_A_338	NW_004516983.1	scaffold1905	338	AA	GG	GG	INTERGENIC			
SNP_101243_A_1763	NW_004516983.1	scaffold1905	1763	CC	GG	GG	INTERGENIC			
SNP_101244_A_1803	NW_004516983.1	scaffold1905	1803	CC	TT	TT	INTERGENIC			
SNP_101245_A_1844	NW_004516983.1	scaffold1905	1844	AA	CC	CC	INTERGENIC			
SNP_101246_A_1909	NW_004516983.1	scaffold1905	1909	AA	GG	GG	INTERGENIC			
SNP_101247_A_1988	NW_004516983.1	scaffold1905	1988	TT	GG	GG	INTERGENIC			
SNP_101248_A_2002	NW_004516983.1	scaffold1905	2002	AA	CC	CC	INTERGENIC			
SNP_101249_A_2077	NW_004516983.1	scaffold1905	2077	TT	AA	AA	INTERGENIC			
SNP_101251_A_14710	NW_004516983.1	scaffold1905	14710	CC	AA	AA	INTERGENIC			
SNP_101252_A_14739	NW_004516983.1	scaffold1905	14739	TT	CC	CC	INTERGENIC			
SNP_101253_A_16560	NW_004516983.1	scaffold1905	16560	TT	CC	CC	INTERGENIC			
SNP_101254_A_16756	NW_004516983.1	scaffold1905	16756	AA	CC	CC	INTERGENIC			
SNP_101255_A_16816	NW_004516983.1	scaffold1905	16816	TT	AA	AA	INTERGENIC			
SNP_101256_A_16880	NW_004516983.1	scaffold1905	16880	AA	GG	GG	INTERGENIC			
SNP_101257_A_16886	NW_004516983.1	scaffold1905	16886	TT	CC	CC	INTERGENIC			
SNP_101258_A_16927	NW_004516983.1	scaffold1905	16927	TT	CC	CC	INTERGENIC			
SNP_101259_A_16946	NW_004516983.1	scaffold1905	16946	TT	CC	CC	INTERGENIC			
SNP_101260_A_16966	NW_004516983.1	scaffold1905	16966	CC	AA	AA	INTERGENIC			
SNP_101261_A_31672	NW_004516983.1	scaffold1905	31672	GG	AA	AA	INTERGENIC			
SNP_101262_A_31971	NW_004516983.1	scaffold1905	31971	TT	GG	GG	INTERGENIC			
SNP_101263_A_32295	NW_004516983.1	scaffold1905	32295	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101264_A_1760	NW_004516984.1	scaffold1907	1760	CC	TT	TT	INTERGENIC			
SNP_101265_A_18778	NW_004516984.1	scaffold1907	18778	GG	CC	CC	INTERGENIC			
SNP_101266_A_23722	NW_004516984.1	scaffold1907	23722	TT	GG	GG	INTERGENIC			
SNP_101267_A_23733	NW_004516984.1	scaffold1907	23733	TT	GG	GG	INTERGENIC			
SNP_101268_A_24075	NW_004516984.1	scaffold1907	24075	TT	GG	GG	INTERGENIC			
SNP_101269_A_55873	NW_004516984.1	scaffold1907	55873	GG	TT	TT	INTERGENIC			
SNP_101270_A_56958	NW_004516984.1	scaffold1907	56958	CC	TT	TT	INTERGENIC			
SNP_101271_A_60665	NW_004516984.1	scaffold1907	60665	TT	GG	GG	INTERGENIC			
SNP_101272_A_61664	NW_004516984.1	scaffold1907	61664	AA	TT	TT	INTERGENIC			
SNP_101273_A_62842	NW_004516984.1	scaffold1907	62842	AA	GG	GG	INTERGENIC			
SNP_101274_A_63180	NW_004516984.1	scaffold1907	63180	AA	GG	GG	INTERGENIC			
SNP_101275_A_64821	NW_004516984.1	scaffold1907	64821	TT	CC	CC	INTERGENIC			
SNP_101276_A_264	NW_004516987.1	scaffold1910	264	GG	AA	AA	INTERGENIC			
SNP_101277_A_303	NW_004516987.1	scaffold1910	303	AA	GG	GG	INTERGENIC			
SNP_101278_A_306	NW_004516987.1	scaffold1910	306	CC	TT	TT	INTERGENIC			
SNP_101279_A_307	NW_004516987.1	scaffold1910	307	TT	CC	CC	INTERGENIC			
SNP_101280_A_309	NW_004516987.1	scaffold1910	309	TT	CC	CC	INTERGENIC			
SNP_101281_A_6509	NW_004516987.1	scaffold1910	6509	AA	TT	TT	INTERGENIC			
SNP_101282_A_6552	NW_004516987.1	scaffold1910	6552	AA	GG	GG	INTERGENIC			
SNP_101283_A_6612	NW_004516987.1	scaffold1910	6612	GG	AA	AA	INTERGENIC			
SNP_101284_A_6619	NW_004516987.1	scaffold1910	6619	CC	TT	TT	INTERGENIC			
SNP_101285_A_6620	NW_004516987.1	scaffold1910	6620	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101286_A_6621	NW_004516987.1	scaffold1910	6621	AA	TT	TT	INTERGENIC			
SNP_101287_A_6622	NW_004516987.1	scaffold1910	6622	TT	GG	GG	INTERGENIC			
SNP_101288_A_6680	NW_004516987.1	scaffold1910	6680	GG	CC	CC	INTERGENIC			
SNP_101289_A_6681	NW_004516987.1	scaffold1910	6681	AA	TT	TT	INTERGENIC			
SNP_101290_A_6781	NW_004516987.1	scaffold1910	6781	GG	TT	TT	INTERGENIC			
SNP_101291_A_6852	NW_004516987.1	scaffold1910	6852	CC	TT	TT	INTERGENIC			
SNP_101292_A_7009	NW_004516987.1	scaffold1910	7009	TT	GG	GG	INTERGENIC			
SNP_101293_A_7010	NW_004516987.1	scaffold1910	7010	GG	CC	CC	INTERGENIC			
SNP_101294_A_7050	NW_004516987.1	scaffold1910	7050	CC	TT	TT	INTERGENIC			
SNP_101295_A_7058	NW_004516987.1	scaffold1910	7058	CC	TT	TT	INTERGENIC			
SNP_101296_A_7081	NW_004516987.1	scaffold1910	7081	AA	GG	GG	INTERGENIC			
SNP_101297_A_7142	NW_004516987.1	scaffold1910	7142	CC	GG	GG	INTERGENIC			
SNP_101298_A_8937	NW_004516987.1	scaffold1910	8937	GG	TT	TT	INTERGENIC			
SNP_101299_A_13505	NW_004516987.1	scaffold1910	13505	TT	CC	CC	INTERGENIC			
SNP_101300_A_13695	NW_004516987.1	scaffold1910	13695	GG	AA	AA	INTERGENIC			
SNP_101301_A_14057	NW_004516987.1	scaffold1910	14057	TT	CC	CC	INTERGENIC			
SNP_101302_A_23400	NW_004516987.1	scaffold1910	23400	GG	AA	AA	INTERGENIC			
SNP_101303_A_23464	NW_004516987.1	scaffold1910	23464	CC	AA	AA	INTERGENIC			
SNP_101305_A_36679	NW_004516987.1	scaffold1910	36679	GG	TT	TT	INTERGENIC			
SNP_101306_A_36680	NW_004516987.1	scaffold1910	36680	TT	CC	CC	INTERGENIC			
SNP_101307_A_36710	NW_004516987.1	scaffold1910	36710	CC	TT	TT	INTERGENIC			
SNP_101308_A_36746	NW_004516987.1	scaffold1910	36746	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101309_A_36788	NW_004516987.1	scaffold1910	36788	TT	CC	CC	INTERGENIC			
SNP_101310_A_37079	NW_004516987.1	scaffold1910	37079	TT	CC	CC	INTERGENIC			
SNP_101311_A_37089	NW_004516987.1	scaffold1910	37089	AA	GG	GG	INTERGENIC			
SNP_101312_A_37111	NW_004516987.1	scaffold1910	37111	AA	CC	CC	INTERGENIC			
SNP_101313_A_37137	NW_004516987.1	scaffold1910	37137	TT	CC	CC	INTERGENIC			
SNP_101314_A_37173	NW_004516987.1	scaffold1910	37173	TT	CC	CC	INTERGENIC			
SNP_101315_A_39179	NW_004516987.1	scaffold1910	39179	TT	CC	CC	INTERGENIC			
SNP_101316_A_2815	NW_004516988.1	scaffold1911	2815	TT	AA	AA	INTERGENIC			
SNP_101317_A_2843	NW_004516988.1	scaffold1911	2843	GG	TT	TT	INTERGENIC			
SNP_101318_A_2905	NW_004516988.1	scaffold1911	2905	TT	GG	GG	INTERGENIC			
SNP_101319_A_2943	NW_004516988.1	scaffold1911	2943	CC	AA	AA	INTERGENIC			
SNP_101320_A_3010	NW_004516988.1	scaffold1911	3010	TT	CC	CC	INTERGENIC			
SNP_101321_A_3017	NW_004516988.1	scaffold1911	3017	CC	TT	TT	INTERGENIC			
SNP_101322_A_3146	NW_004516988.1	scaffold1911	3146	TT	CC	CC	INTERGENIC			
SNP_101323_A_3210	NW_004516988.1	scaffold1911	3210	GG	CC	CC	INTERGENIC			
SNP_101324_A_3275	NW_004516988.1	scaffold1911	3275	CC	TT	TT	INTERGENIC			
SNP_101325_A_12254	NW_004516988.1	scaffold1911	12254	GG	AA	AA	INTERGENIC			
SNP_101326_A_12329	NW_004516988.1	scaffold1911	12329	GG	AA	AA	INTERGENIC			
SNP_101327_A_12368	NW_004516988.1	scaffold1911	12368	TT	AA	AA	INTERGENIC			
SNP_101328_A_12650	NW_004516988.1	scaffold1911	12650	AA	TT	TT	INTERGENIC			
SNP_101329_A_12733	NW_004516988.1	scaffold1911	12733	TT	AA	GG	INTERGENIC			
SNP_101330_A_12755	NW_004516988.1	scaffold1911	12755	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101332_A_13322	NW_004516988.1	scaffold1911	13322	TT	CC	CC	INTERGENIC			
SNP_101333_A_15193	NW_004516988.1	scaffold1911	15193	GG	AA	AA	INTERGENIC			
SNP_101334_A_16689	NW_004516988.1	scaffold1911	16689	TT	CC	CC	INTERGENIC			
SNP_101335_A_16781	NW_004516988.1	scaffold1911	16781	TT	CC	CC	INTERGENIC			
SNP_101336_A_16842	NW_004516988.1	scaffold1911	16842	GG	TT	TT	INTERGENIC			
SNP_101337_A_16954	NW_004516988.1	scaffold1911	16954	AA	TT	TT	INTERGENIC			
SNP_101338_A_16955	NW_004516988.1	scaffold1911	16955	GG	AA	AA	INTERGENIC			
SNP_101339_A_16958	NW_004516988.1	scaffold1911	16958	AA	TT	TT	INTERGENIC			
SNP_101340_A_16959	NW_004516988.1	scaffold1911	16959	TT	CC	CC	INTERGENIC			
SNP_101341_A_17143	NW_004516988.1	scaffold1911	17143	AA	CC	CC	INTERGENIC			
SNP_101343_A_17224	NW_004516988.1	scaffold1911	17224	AA	GG	GG	INTERGENIC			
SNP_101344_A_2453	NW_004516989.1	scaffold1912	2453	CC	TT	TT	INTERGENIC			
SNP_101345_A_3108	NW_004516989.1	scaffold1912	3108	AA	GG	GG	INTERGENIC			
SNP_101346_A_8024	NW_004516989.1	scaffold1912	8024	AA	GG	GG	INTERGENIC			
SNP_101347_A_11831	NW_004516989.1	scaffold1912	11831	GG	AA	AA	INTERGENIC			
SNP_101348_A_4940	NW_004516990.1	scaffold1913	4940	GG	AA	AA	NON_SYNONYMOUS_CODING	101498604		Unknown function
SNP_101349_A_16099	NW_004516994.1	scaffold1918	16099	TT	CC	CC	URR	101506958		zinc finger protein ZAT1-like
SNP_101351_A_18940	NW_004516994.1	scaffold1918	18940	TT	AA	AA	INTERGENIC			
SNP_101352_A_20051	NW_004516994.1	scaffold1918	20051	TT	CC	CC	INTERGENIC			
SNP_101353_A_20327	NW_004516994.1	scaffold1918	20327	TT	CC	CC	INTERGENIC			
SNP_101354_A_20353	NW_004516994.1	scaffold1918	20353	CC	AA	AA	INTERGENIC			
SNP_101355_A_22185	NW_004516994.1	scaffold1918	22185	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101357_A_26567	NW_004516994.1	scaffold1918	26567	GG	TT	TT	INTERGENIC		
SNP_101358_A_27223	NW_004516994.1	scaffold1918	27223	AA	TT	TT	INTERGENIC		
SNP_101359_A_27410	NW_004516994.1	scaffold1918	27410	CC	GG	GG	INTERGENIC		
SNP_101360_A_29755	NW_004516994.1	scaffold1918	29755	CC	TT	TT	INTERGENIC		
SNP_101361_A_31242	NW_004516994.1	scaffold1918	31242	TT	AA	AA	INTERGENIC		
SNP_101362_A_31585	NW_004516994.1	scaffold1918	31585	GG	AA	AA	INTERGENIC		
SNP_101363_A_31750	NW_004516994.1	scaffold1918	31750	TT	CC	CC	INTERGENIC		
SNP_101364_A_31797	NW_004516994.1	scaffold1918	31797	GG	TT	TT	INTERGENIC		
SNP_101365_A_31821	NW_004516994.1	scaffold1918	31821	GG	TT	TT	INTERGENIC		
SNP_101367_A_32210	NW_004516994.1	scaffold1918	32210	AA	GG	GG	INTERGENIC		
SNP_101368_A_38330	NW_004516994.1	scaffold1918	38330	TT	GG	GG	INTERGENIC		
SNP_101369_A_38965	NW_004516994.1	scaffold1918	38965	CC	TT	TT	URR	101498935	F-box protein At5g07670-like
SNP_101370_A_39755	NW_004516994.1	scaffold1918	39755	TT	CC	CC	DRR	101507282	pentatricopeptide repeat-containing protein At3g18970
SNP_101371_A_39768	NW_004516994.1	scaffold1918	39768	GG	CC	CC	DRR	101507282	pentatricopeptide repeat-containing protein At3g18970
SNP_101372_A_40629	NW_004516994.1	scaffold1918	40629	TT	CC	CC	INTERGENIC		
SNP_101373_A_40638	NW_004516994.1	scaffold1918	40638	TT	GG	GG	INTERGENIC		
SNP_101374_A_44039	NW_004516994.1	scaffold1918	44039	TT	AA	AA	DRR	101499260	pentatricopeptide repeat-containing protein At2g13420, mitochondrial-like
SNP_101375_A_45896	NW_004516994.1	scaffold1918	45896	AA	TT	TT	INTERGENIC		
SNP_101376_A_48990	NW_004516994.1	scaffold1918	48990	GG	AA	AA	URR	101499260	pentatricopeptide repeat-containing protein At2g13420, mitochondrial-like
SNP_101377_A_51641	NW_004516994.1	scaffold1918	51641	TT	CC	CC	INTERGENIC		
SNP_101378_A_59467	NW_004516994.1	scaffold1918	59467	GG	AA	AA	INTERGENIC		
SNP_101379_A_63455	NW_004516994.1	scaffold1918	63455	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101380_A_73889	NW_004516994.1	scaffold1918	73889	CC	AA	AA	NON_SYNONYMOUS_CODING	101499985	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_101381_A_75827	NW_004516994.1	scaffold1918	75827	GG	AA	AA	URR	101499985	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_101383_A_79275	NW_004516994.1	scaffold1918	79275	AA	GG	GG	INTERGENIC		
SNP_101384_A_82315	NW_004516994.1	scaffold1918	82315	GG	AA	AA	INTERGENIC		
SNP_101385_A_102129	NW_004516994.1	scaffold1918	102129	CC	AA	AA	INTERGENIC		
SNP_101386_A_104021	NW_004516994.1	scaffold1918	104021	AA	GG	GG	INTRON	101502233	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_101387_A_126159	NW_004516994.1	scaffold1918	126159	TT	CC	CC	INTERGENIC		
SNP_101388_A_152507	NW_004516994.1	scaffold1918	152507	CC	TT	TT	INTERGENIC		
SNP_101389_A_152709	NW_004516994.1	scaffold1918	152709	TT	CC	CC	INTERGENIC		
SNP_101390_A_152758	NW_004516994.1	scaffold1918	152758	CC	TT	TT	INTERGENIC		
SNP_101391_A_153070	NW_004516994.1	scaffold1918	153070	TT	CC	CC	INTERGENIC		
SNP_101392_A_155588	NW_004516994.1	scaffold1918	155588	CC	TT	TT	INTERGENIC		
SNP_101393_A_158209	NW_004516994.1	scaffold1918	158209	CC	GG	GG	DRR	101503390	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_101394_A_161607	NW_004516994.1	scaffold1918	161607	AA	GG	GG	URR	101503390	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_101395_A_161610	NW_004516994.1	scaffold1918	161610	GG	AA	AA	URR	101503390	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_101396_A_161655	NW_004516994.1	scaffold1918	161655	TT	AA	AA	URR	101503390	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_101397_A_161972	NW_004516994.1	scaffold1918	161972	AA	GG	GG	URR	101503390	pentatricopeptide repeat-containing protein At3g22470, mitochondrial-like
SNP_101398_A_167403	NW_004516994.1	scaffold1918	167403	CC	TT	TT	INTERGENIC		
SNP_101399_A_172995	NW_004516994.1	scaffold1918	172995	AA	GG	GG	INTERGENIC		
SNP_101400_A_173204	NW_004516994.1	scaffold1918	173204	GG	AA	AA	INTERGENIC		
SNP_101401_A_173330	NW_004516994.1	scaffold1918	173330	TT	CC	CC	INTERGENIC		
SNP_101402_A_181162	NW_004516994.1	scaffold1918	181162	CC	TT	TT	URR	101508224	short-chain dehydrogenase TIC 32, chloroplastic-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101403_A_182092	NW_004516994.1	scaffold1918	182092	CC	GG	GG	URR	101508224	short-chain dehydrogenase TIC 32, chloroplastic-like
SNP_101404_A_182819	NW_004516994.1	scaffold1918	182819	AA	GG	GG	INTERGENIC		
SNP_101405_A_185947	NW_004516994.1	scaffold1918	185947	TT	AA	AA	URR	101504364	RNA-binding protein pno1-like
SNP_101406_A_186020	NW_004516994.1	scaffold1918	186020	GG	CC	CC	URR	101504364	RNA-binding protein pno1-like
SNP_101408_A_194223	NW_004516994.1	scaffold1918	194223	TT	CC	CC	INTERGENIC		
SNP_101409_A_197128	NW_004516994.1	scaffold1918	197128	AA	GG	GG	INTERGENIC		
SNP_101410_A_205722	NW_004516994.1	scaffold1918	205722	CC	TT	TT	URR	101504908	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_101411_A_205729	NW_004516994.1	scaffold1918	205729	GG	AA	AA	URR	101504908	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_101412_A_205730	NW_004516994.1	scaffold1918	205730	TT	CC	CC	URR	101504908	putative pentatricopeptide repeat-containing protein At1g12700, mitochondrial
SNP_101413_A_213693	NW_004516994.1	scaffold1918	213693	TT	CC	CC	INTERGENIC		
SNP_101414_A_213722	NW_004516994.1	scaffold1918	213722	TT	GG	GG	INTERGENIC		
SNP_101415_A_224631	NW_004516994.1	scaffold1918	224631	AA	GG	GG	INTERGENIC		
SNP_101416_A_226049	NW_004516994.1	scaffold1918	226049	AA	GG	GG	INTERGENIC		
SNP_101417_A_229558	NW_004516994.1	scaffold1918	229558	AA	GG	GG	INTERGENIC		
SNP_101418_A_244704	NW_004516994.1	scaffold1918	244704	CC	TT	TT	INTRON	101506623	trehalose-phosphate phosphatase A-like
SNP_101420_A_245739	NW_004516994.1	scaffold1918	245739	AA	GG	GG	INTRON	101506623	trehalose-phosphate phosphatase A-like
SNP_101421_A_245917	NW_004516994.1	scaffold1918	245917	CC	TT	TT	SYNONYMOUS_CODING	101506623	trehalose-phosphate phosphatase A-like
SNP_101422_A_245953	NW_004516994.1	scaffold1918	245953	TT	CC	CC	SYNONYMOUS_CODING	101506623	trehalose-phosphate phosphatase A-like
SNP_101423_A_245968	NW_004516994.1	scaffold1918	245968	TT	CC	CC	SYNONYMOUS_CODING	101506623	trehalose-phosphate phosphatase A-like
SNP_101424_A_247101	NW_004516994.1	scaffold1918	247101	AA	CC	CC	INTRON	101506623	trehalose-phosphate phosphatase A-like
SNP_101425_A_247861	NW_004516994.1	scaffold1918	247861	TT	CC	CC	SYNONYMOUS_CODING	101506623	trehalose-phosphate phosphatase A-like
SNP_101426_A_1925	NW_004516995.1	scaffold1919	1925	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101427_A_2451	NW_004516995.1	scaffold1919	2451	TT	CC	CC	INTERGENIC			
SNP_101428_A_2463	NW_004516995.1	scaffold1919	2463	AA	CC	CC	INTERGENIC			
SNP_101429_A_5162	NW_004516995.1	scaffold1919	5162	GG	AA	AA	INTERGENIC			
SNP_101430_A_4900	NW_004516996.1	scaffold1920	4900	AA	CC	CC	INTERGENIC			
SNP_101431_A_4943	NW_004516996.1	scaffold1920	4943	TT	CC	CC	INTERGENIC			
SNP_101432_A_8492	NW_004516996.1	scaffold1920	8492	AA	CC	CC	INTERGENIC			
SNP_101433_A_8573	NW_004516996.1	scaffold1920	8573	CC	AA	AA	INTERGENIC			
SNP_101434_A_8574	NW_004516996.1	scaffold1920	8574	CC	AA	AA	INTERGENIC			
SNP_101435_A_8730	NW_004516996.1	scaffold1920	8730	CC	AA	AA	INTERGENIC			
SNP_101436_A_8733	NW_004516996.1	scaffold1920	8733	GG	CC	CC	INTERGENIC			
SNP_101437_A_8741	NW_004516996.1	scaffold1920	8741	GG	AA	AA	INTERGENIC			
SNP_101438_A_8749	NW_004516996.1	scaffold1920	8749	CC	AA	AA	INTERGENIC			
SNP_101439_A_8751	NW_004516996.1	scaffold1920	8751	AA	TT	TT	INTERGENIC			
SNP_101440_A_8859	NW_004516996.1	scaffold1920	8859	AA	TT	TT	INTERGENIC			
SNP_101441_A_8872	NW_004516996.1	scaffold1920	8872	TT	AA	AA	INTERGENIC			
SNP_101442_A_8885	NW_004516996.1	scaffold1920	8885	GG	AA	AA	INTERGENIC			
SNP_101443_A_10232	NW_004516996.1	scaffold1920	10232	TT	AA	AA	INTERGENIC			
SNP_101444_A_10261	NW_004516996.1	scaffold1920	10261	AA	GG	GG	INTERGENIC			
SNP_101445_A_10407	NW_004516996.1	scaffold1920	10407	CC	TT	TT	INTERGENIC			
SNP_101446_A_14881	NW_004516996.1	scaffold1920	14881	CC	AA	AA	INTERGENIC			
SNP_101447_A_14907	NW_004516996.1	scaffold1920	14907	GG	TT	TT	INTERGENIC			
SNP_101448_A_14948	NW_004516996.1	scaffold1920	14948	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101449_A_20842	NW_004516996.1	scaffold1920	20842	GG	CC	CC	INTERGENIC			
SNP_101450_A_21290	NW_004516996.1	scaffold1920	21290	AA	CC	CC	INTERGENIC			
SNP_101451_A_21302	NW_004516996.1	scaffold1920	21302	AA	GG	GG	INTERGENIC			
SNP_101452_A_25458	NW_004516996.1	scaffold1920	25458	CC	TT	TT	INTERGENIC			
SNP_101453_A_212	NW_004516997.1	scaffold1922	212	AA	CC	CC	INTERGENIC			
SNP_101454_A_1437	NW_004516998.1	scaffold1923	1437	CC	TT	TT	INTERGENIC			
SNP_101455_A_1815	NW_004516998.1	scaffold1923	1815	CC	TT	TT	INTERGENIC			
SNP_101456_A_2780	NW_004516998.1	scaffold1923	2780	CC	AA	AA	INTERGENIC			
SNP_101457_A_10394	NW_004516998.1	scaffold1923	10394	AA	TT	TT	INTERGENIC			
SNP_101458_A_10433	NW_004516998.1	scaffold1923	10433	CC	TT	TT	INTERGENIC			
SNP_101459_A_10669	NW_004516998.1	scaffold1923	10669	GG	AA	AA	INTERGENIC			
SNP_101461_A_3661	NW_004517001.1	scaffold1928	3661	CC	GG	GG	INTERGENIC			
SNP_101462_A_3666	NW_004517001.1	scaffold1928	3666	TT	AA	AA	INTERGENIC			
SNP_101464_A_3916	NW_004517001.1	scaffold1928	3916	CC	TT	TT	INTERGENIC			
SNP_101465_A_3932	NW_004517001.1	scaffold1928	3932	CC	TT	TT	INTERGENIC			
SNP_101466_A_3995	NW_004517001.1	scaffold1928	3995	AA	CC	CC	INTERGENIC			
SNP_101469_A_50514	NW_004517001.1	scaffold1928	50514	AA	GG	GG	INTERGENIC			
SNP_101470_A_62150	NW_004517001.1	scaffold1928	62150	GG	CC	CC	INTERGENIC			
SNP_101471_A_78296	NW_004517001.1	scaffold1928	78296	GG	AA	AA	INTERGENIC			
SNP_101472_A_78429	NW_004517001.1	scaffold1928	78429	TT	AA	AA	INTERGENIC			
SNP_101473_A_79403	NW_004517001.1	scaffold1928	79403	CC	AA	AA	INTERGENIC			
SNP_101474_A_79425	NW_004517001.1	scaffold1928	79425	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101475_A_80739	NW_004517001.1	scaffold1928	80739	AA	GG	GG	INTERGENIC			
SNP_101476_A_80783	NW_004517001.1	scaffold1928	80783	TT	GG	GG	INTERGENIC			
SNP_101477_A_80786	NW_004517001.1	scaffold1928	80786	CC	AA	AA	INTERGENIC			
SNP_101478_A_1693	NW_004517003.1	scaffold1930	1693	CC	TT	TT	INTERGENIC			
SNP_101479_A_1705	NW_004517003.1	scaffold1930	1705	GG	AA	AA	INTERGENIC			
SNP_101480_A_22475	NW_004517003.1	scaffold1930	22475	AA	TT	TT	INTERGENIC			
SNP_101481_A_32450	NW_004517003.1	scaffold1930	32450	AA	TT	TT	INTERGENIC			
SNP_101482_A_32685	NW_004517003.1	scaffold1930	32685	AA	GG	GG	INTERGENIC			
SNP_101483_A_32696	NW_004517003.1	scaffold1930	32696	GG	TT	TT	INTERGENIC			
SNP_101484_A_34850	NW_004517003.1	scaffold1930	34850	GG	AA	AA	INTERGENIC			
SNP_101485_A_34878	NW_004517003.1	scaffold1930	34878	CC	TT	TT	INTERGENIC			
SNP_101486_A_37276	NW_004517003.1	scaffold1930	37276	TT	CC	CC	INTERGENIC			
SNP_101487_A_37332	NW_004517003.1	scaffold1930	37332	GG	TT	TT	INTERGENIC			
SNP_101488_A_37421	NW_004517003.1	scaffold1930	37421	TT	CC	CC	INTERGENIC			
SNP_101489_A_37508	NW_004517003.1	scaffold1930	37508	TT	AA	AA	INTERGENIC			
SNP_101490_A_37509	NW_004517003.1	scaffold1930	37509	AA	GG	GG	INTERGENIC			
SNP_101491_A_37596	NW_004517003.1	scaffold1930	37596	TT	CC	CC	INTERGENIC			
SNP_101492_A_37623	NW_004517003.1	scaffold1930	37623	TT	AA	AA	INTERGENIC			
SNP_101493_A_37738	NW_004517003.1	scaffold1930	37738	AA	TT	TT	INTERGENIC			
SNP_101494_A_37762	NW_004517003.1	scaffold1930	37762	TT	CC	CC	INTERGENIC			
SNP_101495_A_37811	NW_004517003.1	scaffold1930	37811	TT	GG	GG	INTERGENIC			
SNP_101496_A_37822	NW_004517003.1	scaffold1930	37822	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101497_A_37824	NW_004517003.1	scaffold1930	37824	AA	GG	GG	INTERGENIC			
SNP_101498_A_37861	NW_004517003.1	scaffold1930	37861	AA	CC	CC	INTERGENIC			
SNP_101499_A_37862	NW_004517003.1	scaffold1930	37862	TT	GG	GG	INTERGENIC			
SNP_101500_A_37898	NW_004517003.1	scaffold1930	37898	GG	AA	AA	INTERGENIC			
SNP_101501_A_38061	NW_004517003.1	scaffold1930	38061	GG	CC	CC	INTERGENIC			
SNP_101502_A_38481	NW_004517003.1	scaffold1930	38481	GG	TT	TT	INTERGENIC			
SNP_101503_A_38552	NW_004517003.1	scaffold1930	38552	GG	CC	CC	INTERGENIC			
SNP_101504_A_39297	NW_004517003.1	scaffold1930	39297	GG	AA	AA	INTERGENIC			
SNP_101505_A_40096	NW_004517003.1	scaffold1930	40096	GG	CC	CC	INTERGENIC			
SNP_101506_A_40169	NW_004517003.1	scaffold1930	40169	CC	TT	TT	INTERGENIC			
SNP_101507_A_40244	NW_004517003.1	scaffold1930	40244	AA	GG	GG	INTERGENIC			
SNP_101508_A_40272	NW_004517003.1	scaffold1930	40272	GG	AA	AA	INTERGENIC			
SNP_101510_A_40381	NW_004517003.1	scaffold1930	40381	TT	GG	GG	INTERGENIC			
SNP_101511_A_40407	NW_004517003.1	scaffold1930	40407	GG	TT	TT	INTERGENIC			
SNP_101512_A_40485	NW_004517003.1	scaffold1930	40485	CC	GG	GG	INTERGENIC			
SNP_101513_A_40583	NW_004517003.1	scaffold1930	40583	CC	TT	TT	INTERGENIC			
SNP_101514_A_41515	NW_004517003.1	scaffold1930	41515	TT	AA	AA	INTERGENIC			
SNP_101515_A_41531	NW_004517003.1	scaffold1930	41531	TT	CC	CC	INTERGENIC			
SNP_101516_A_41718	NW_004517003.1	scaffold1930	41718	GG	TT	TT	INTERGENIC			
SNP_101517_A_41846	NW_004517003.1	scaffold1930	41846	TT	CC	CC	INTERGENIC			
SNP_101518_A_41973	NW_004517003.1	scaffold1930	41973	GG	AA	AA	INTERGENIC			
SNP_101519_A_41998	NW_004517003.1	scaffold1930	41998	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101520_A_43862	NW_004517003.1	scaffold1930	43862	AA	GG	GG	INTERGENIC			
SNP_101521_A_45178	NW_004517003.1	scaffold1930	45178	TT	GG	GG	INTERGENIC			
SNP_101522_A_45365	NW_004517003.1	scaffold1930	45365	AA	CC	CC	INTERGENIC			
SNP_101523_A_59920	NW_004517003.1	scaffold1930	59920	AA	TT	TT	INTERGENIC			
SNP_101524_A_24598	NW_004517005.1	scaffold1932	24598	GG	AA	AA	INTERGENIC			
SNP_101525_A_24611	NW_004517005.1	scaffold1932	24611	CC	TT	TT	INTERGENIC			
SNP_101526_A_77656	NW_004517005.1	scaffold1932	77656	TT	AA	AA	INTERGENIC			
SNP_101527_A_77659	NW_004517005.1	scaffold1932	77659	TT	GG	GG	INTERGENIC			
SNP_101528_A_82728	NW_004517005.1	scaffold1932	82728	GG	AA	AA	INTERGENIC			
SNP_101529_A_82769	NW_004517005.1	scaffold1932	82769	AA	GG	GG	INTERGENIC			
SNP_101530_A_83153	NW_004517005.1	scaffold1932	83153	AA	GG	GG	INTERGENIC			
SNP_101531_A_83183	NW_004517005.1	scaffold1932	83183	AA	GG	GG	INTERGENIC			
SNP_101532_A_83209	NW_004517005.1	scaffold1932	83209	CC	AA	AA	INTERGENIC			
SNP_101533_A_83220	NW_004517005.1	scaffold1932	83220	CC	AA	AA	INTERGENIC			
SNP_101534_A_83241	NW_004517005.1	scaffold1932	83241	TT	CC	CC	INTERGENIC			
SNP_101535_A_4060	NW_004517010.1	scaffold1937	4060	TT	GG	GG	INTERGENIC			
SNP_101536_A_7206	NW_004517010.1	scaffold1937	7206	CC	AA	AA	INTERGENIC			
SNP_101538_A_5143	NW_004517015.1	scaffold1942	5143	GG	AA	AA	INTERGENIC			
SNP_101539_A_5334	NW_004517015.1	scaffold1942	5334	GG	AA	AA	INTERGENIC			
SNP_101540_A_121	NW_004517016.1	scaffold1943	121	CC	TT	TT	INTERGENIC			
SNP_101541_A_218	NW_004517016.1	scaffold1943	218	GG	CC	CC	INTERGENIC			
SNP_101542_A_2329	NW_004517016.1	scaffold1943	2329	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101543_A_2350	NW_004517016.1	scaffold1943	2350	AA	CC	CC	INTERGENIC			
SNP_101544_A_2417	NW_004517016.1	scaffold1943	2417	TT	GG	GG	INTERGENIC			
SNP_101545_A_2421	NW_004517016.1	scaffold1943	2421	TT	CC	CC	INTERGENIC			
SNP_101546_A_2450	NW_004517016.1	scaffold1943	2450	TT	CC	CC	INTERGENIC			
SNP_101547_A_2451	NW_004517016.1	scaffold1943	2451	CC	TT	TT	INTERGENIC			
SNP_101548_A_2457	NW_004517016.1	scaffold1943	2457	TT	AA	AA	INTERGENIC			
SNP_101549_A_2497	NW_004517016.1	scaffold1943	2497	CC	TT	TT	INTERGENIC			
SNP_101550_A_2541	NW_004517016.1	scaffold1943	2541	GG	CC	CC	INTERGENIC			
SNP_101551_A_2555	NW_004517016.1	scaffold1943	2555	TT	GG	GG	INTERGENIC			
SNP_101552_A_2556	NW_004517016.1	scaffold1943	2556	TT	CC	CC	INTERGENIC			
SNP_101553_A_2564	NW_004517016.1	scaffold1943	2564	AA	TT	TT	INTERGENIC			
SNP_101554_A_2942	NW_004517016.1	scaffold1943	2942	CC	TT	TT	INTERGENIC			
SNP_101556_A_3008	NW_004517016.1	scaffold1943	3008	CC	AA	AA	INTERGENIC			
SNP_101558_A_12930	NW_004517016.1	scaffold1943	12930	AA	CC	CC	INTERGENIC			
SNP_101559_A_13194	NW_004517016.1	scaffold1943	13194	AA	GG	GG	INTERGENIC			
SNP_101560_A_18023	NW_004517016.1	scaffold1943	18023	CC	TT	TT	INTERGENIC			
SNP_101561_A_59775	NW_004517016.1	scaffold1943	59775	GG	AA	AA	URR	101511647	U4/U6 small nuclear ribonucleoprotein PRP4-like protein	
SNP_101563_A_83560	NW_004517016.1	scaffold1943	83560	GG	AA	AA	DRR	101514897	uncharacterized LOC101514897	
SNP_101565_A_109960	NW_004517016.1	scaffold1943	109960	CC	GG	GG	INTERGENIC			
SNP_101566_A_120764	NW_004517016.1	scaffold1943	120764	GG	CC	CC	INTERGENIC			
SNP_101567_A_120825	NW_004517016.1	scaffold1943	120825	AA	TT	TT	INTERGENIC			
SNP_101568_A_121178	NW_004517016.1	scaffold1943	121178	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101569_A_121193	NW_004517016.1	scaffold1943	121193	CC	TT	TT	INTERGENIC			
SNP_101570_A_121195	NW_004517016.1	scaffold1943	121195	GG	TT	TT	INTERGENIC			
SNP_101571_A_121198	NW_004517016.1	scaffold1943	121198	TT	GG	GG	INTERGENIC			
SNP_101572_A_121228	NW_004517016.1	scaffold1943	121228	CC	AA	AA	INTERGENIC			
SNP_101573_A_121231	NW_004517016.1	scaffold1943	121231	TT	CC	CC	INTERGENIC			
SNP_101575_A_121458	NW_004517016.1	scaffold1943	121458	AA	GG	GG	INTERGENIC			
SNP_101576_A_121482	NW_004517016.1	scaffold1943	121482	TT	CC	CC	INTERGENIC			
SNP_101577_A_121531	NW_004517016.1	scaffold1943	121531	TT	CC	CC	INTERGENIC			
SNP_101578_A_121587	NW_004517016.1	scaffold1943	121587	AA	GG	GG	INTERGENIC			
SNP_101579_A_121633	NW_004517016.1	scaffold1943	121633	TT	CC	CC	INTERGENIC			
SNP_101580_A_121642	NW_004517016.1	scaffold1943	121642	GG	AA	AA	INTERGENIC			
SNP_101581_A_123259	NW_004517016.1	scaffold1943	123259	TT	GG	GG	INTERGENIC			
SNP_101582_A_123427	NW_004517016.1	scaffold1943	123427	GG	AA	AA	INTERGENIC			
SNP_101583_A_123439	NW_004517016.1	scaffold1943	123439	CC	TT	TT	INTERGENIC			
SNP_101584_A_123472	NW_004517016.1	scaffold1943	123472	GG	AA	AA	INTERGENIC			
SNP_101585_A_123495	NW_004517016.1	scaffold1943	123495	AA	GG	GG	INTERGENIC			
SNP_101586_A_123496	NW_004517016.1	scaffold1943	123496	GG	AA	AA	INTERGENIC			
SNP_101587_A_123524	NW_004517016.1	scaffold1943	123524	TT	CC	CC	INTERGENIC			
SNP_101588_A_123535	NW_004517016.1	scaffold1943	123535	AA	GG	GG	INTERGENIC			
SNP_101589_A_123583	NW_004517016.1	scaffold1943	123583	TT	GG	GG	INTERGENIC			
SNP_101590_A_127048	NW_004517016.1	scaffold1943	127048	GG	AA	AA	INTERGENIC			
SNP_101591_A_127056	NW_004517016.1	scaffold1943	127056	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101592_A_127385	NW_004517016.1	scaffold1943	127385	CC	TT	TT	INTERGENIC		
SNP_101593_A_128136	NW_004517016.1	scaffold1943	128136	TT	CC	CC	INTERGENIC		
SNP_101594_A_132028	NW_004517016.1	scaffold1943	132028	GG	TT	TT	INTERGENIC		
SNP_101595_A_132062	NW_004517016.1	scaffold1943	132062	AA	GG	GG	INTERGENIC		
SNP_101596_A_136928	NW_004517016.1	scaffold1943	136928	TT	CC	CC	INTERGENIC		
SNP_101597_A_147600	NW_004517016.1	scaffold1943	147600	CC	AA	AA	INTERGENIC		
SNP_101598_A_150509	NW_004517016.1	scaffold1943	150509	AA	TT	TT	INTERGENIC		
SNP_101599_A_151027	NW_004517016.1	scaffold1943	151027	AA	TT	TT	INTERGENIC		
SNP_101600_A_163701	NW_004517016.1	scaffold1943	163701	AA	GG	GG	INTERGENIC		
SNP_101601_A_163876	NW_004517016.1	scaffold1943	163876	TT	AA	AA	INTERGENIC		
SNP_101602_A_171758	NW_004517016.1	scaffold1943	171758	GG	TT	TT	STOP_GAINED	101488624	uncharacterized LOC101488624
SNP_101603_A_171930	NW_004517016.1	scaffold1943	171930	GG	AA	AA	NON_SYNONYMOUS_CODING	101488624	uncharacterized LOC101488624
SNP_101604_A_171934	NW_004517016.1	scaffold1943	171934	AA	GG	GG	SYNONYMOUS_CODING	101488624	uncharacterized LOC101488624
SNP_101605_A_171946	NW_004517016.1	scaffold1943	171946	AA	GG	GG	SYNONYMOUS_STOP	101488624	uncharacterized LOC101488624
SNP_101606_A_179650	NW_004517016.1	scaffold1943	179650	TT	AA	AA	INTERGENIC		
SNP_101607_A_193959	NW_004517016.1	scaffold1943	193959	AA	GG	GG	INTERGENIC		
SNP_101608_A_197639	NW_004517016.1	scaffold1943	197639	AA	CC	CC	INTERGENIC		
SNP_101610_A_281594	NW_004517016.1	scaffold1943	281594	AA	GG	GG	INTERGENIC		
SNP_101611_A_281599	NW_004517016.1	scaffold1943	281599	AA	GG	GG	INTERGENIC		
SNP_101612_A_281629	NW_004517016.1	scaffold1943	281629	GG	TT	TT	INTERGENIC		
SNP_101613_A_281925	NW_004517016.1	scaffold1943	281925	GG	AA	AA	INTERGENIC		
SNP_101614_A_281955	NW_004517016.1	scaffold1943	281955	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101615_A_300108	NW_004517016.1	scaffold1943	300108	GG	AA	AA	INTERGENIC		
SNP_101618_A_353158	NW_004517016.1	scaffold1943	353158	TT	CC	CC	INTERGENIC		
SNP_101619_A_361905	NW_004517016.1	scaffold1943	361905	AA	GG	GG	INTERGENIC		
SNP_101620_A_372342	NW_004517016.1	scaffold1943	372342	CC	TT	TT	INTERGENIC		
SNP_101621_A_373700	NW_004517016.1	scaffold1943	373700	GG	AA	AA	INTERGENIC		
SNP_101623_A_377184	NW_004517016.1	scaffold1943	377184	TT	CC	CC	INTERGENIC		
SNP_101624_A_381088	NW_004517016.1	scaffold1943	381088	CC	TT	TT	INTERGENIC		
SNP_101625_A_385843	NW_004517016.1	scaffold1943	385843	TT	CC	CC	INTRON	101514574	probable calcium-binding protein CML49
SNP_101626_A_392407	NW_004517016.1	scaffold1943	392407	GG	AA	AA	INTERGENIC		
SNP_101627_A_392578	NW_004517016.1	scaffold1943	392578	TT	CC	CC	INTERGENIC		
SNP_101628_A_392606	NW_004517016.1	scaffold1943	392606	AA	GG	GG	INTERGENIC		
SNP_101629_A_392609	NW_004517016.1	scaffold1943	392609	TT	AA	AA	INTERGENIC		
SNP_101630_A_393161	NW_004517016.1	scaffold1943	393161	TT	GG	GG	INTERGENIC		
SNP_101631_A_393163	NW_004517016.1	scaffold1943	393163	TT	AA	AA	INTERGENIC		
SNP_101632_A_393343	NW_004517016.1	scaffold1943	393343	GG	AA	AA	INTERGENIC		
SNP_101633_A_393359	NW_004517016.1	scaffold1943	393359	CC	TT	TT	INTERGENIC		
SNP_101635_A_394099	NW_004517016.1	scaffold1943	394099	AA	CC	CC	INTERGENIC		
SNP_101636_A_394196	NW_004517016.1	scaffold1943	394196	TT	CC	CC	INTERGENIC		
SNP_101637_A_394240	NW_004517016.1	scaffold1943	394240	CC	TT	TT	INTERGENIC		
SNP_101638_A_394299	NW_004517016.1	scaffold1943	394299	CC	TT	TT	INTERGENIC		
SNP_101639_A_394392	NW_004517016.1	scaffold1943	394392	CC	TT	TT	INTERGENIC		
SNP_101640_A_394450	NW_004517016.1	scaffold1943	394450	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101641_A_394748	NW_004517016.1	scaffold1943	394748	CC	AA	AA	INTERGENIC			
SNP_101642_A_394887	NW_004517016.1	scaffold1943	394887	AA	TT	TT	INTERGENIC			
SNP_101643_A_395066	NW_004517016.1	scaffold1943	395066	AA	GG	GG	INTERGENIC			
SNP_101644_A_395254	NW_004517016.1	scaffold1943	395254	TT	CC	CC	INTERGENIC			
SNP_101645_A_395385	NW_004517016.1	scaffold1943	395385	AA	TT	TT	INTERGENIC			
SNP_101646_A_395401	NW_004517016.1	scaffold1943	395401	AA	GG	GG	INTERGENIC			
SNP_101647_A_395493	NW_004517016.1	scaffold1943	395493	TT	CC	CC	INTERGENIC			
SNP_101648_A_395531	NW_004517016.1	scaffold1943	395531	AA	TT	TT	INTERGENIC			
SNP_101649_A_395540	NW_004517016.1	scaffold1943	395540	GG	AA	AA	INTERGENIC			
SNP_101650_A_395627	NW_004517016.1	scaffold1943	395627	GG	AA	AA	INTERGENIC			
SNP_101651_A_395654	NW_004517016.1	scaffold1943	395654	CC	TT	TT	INTERGENIC			
SNP_101652_A_395842	NW_004517016.1	scaffold1943	395842	GG	TT	TT	INTERGENIC			
SNP_101653_A_396042	NW_004517016.1	scaffold1943	396042	AA	CC	CC	INTERGENIC			
SNP_101654_A_396043	NW_004517016.1	scaffold1943	396043	CC	AA	AA	INTERGENIC			
SNP_101655_A_696	NW_004517018.1	scaffold1945	696	CC	TT	TT	INTERGENIC			
SNP_101656_A_825	NW_004517018.1	scaffold1945	825	AA	TT	TT	INTERGENIC			
SNP_101657_A_841	NW_004517018.1	scaffold1945	841	AA	GG	GG	INTERGENIC			
SNP_101658_A_1023	NW_004517018.1	scaffold1945	1023	TT	GG	GG	INTERGENIC			
SNP_101662_A_11645	NW_004517018.1	scaffold1945	11645	CC	TT	TT	INTERGENIC			
SNP_101663_A_11719	NW_004517018.1	scaffold1945	11719	CC	TT	TT	INTERGENIC			
SNP_101664_A_11725	NW_004517018.1	scaffold1945	11725	AA	GG	GG	INTERGENIC			
SNP_101665_A_11900	NW_004517018.1	scaffold1945	11900	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101666_A_12029	NW_004517018.1	scaffold1945	12029	AA	GG	GG	INTERGENIC			
SNP_101667_A_40943	NW_004517018.1	scaffold1945	40943	AA	GG	GG	INTERGENIC			
SNP_101668_A_166917	NW_004517018.1	scaffold1945	166917	AA	TT	TT	INTERGENIC			
SNP_101670_A_1400	NW_004517019.1	scaffold1946	1400	TT	CC	CC	INTERGENIC			
SNP_101671_A_1649	NW_004517019.1	scaffold1946	1649	TT	CC	CC	INTERGENIC			
SNP_101672_A_1887	NW_004517019.1	scaffold1946	1887	TT	CC	CC	INTERGENIC			
SNP_101673_A_5513	NW_004517019.1	scaffold1946	5513	CC	TT	TT	INTERGENIC			
SNP_101674_A_6511	NW_004517019.1	scaffold1946	6511	AA	TT	TT	INTERGENIC			
SNP_101675_A_9783	NW_004517019.1	scaffold1946	9783	AA	TT	TT	INTERGENIC			
SNP_101676_A_33638	NW_004517019.1	scaffold1946	33638	GG	TT	TT	INTERGENIC			
SNP_101677_A_33798	NW_004517019.1	scaffold1946	33798	GG	AA	AA	INTERGENIC			
SNP_101679_A_48796	NW_004517019.1	scaffold1946	48796	TT	CC	CC	INTRON	101490588	subtilisin-like protease SBT4.14	
SNP_101680_A_74833	NW_004517019.1	scaffold1946	74833	AA	GG	GG	INTERGENIC			
SNP_101681_A_75106	NW_004517019.1	scaffold1946	75106	GG	AA	AA	INTERGENIC			
SNP_101682_A_75109	NW_004517019.1	scaffold1946	75109	AA	GG	GG	INTERGENIC			
SNP_101683_A_75562	NW_004517019.1	scaffold1946	75562	TT	CC	CC	INTERGENIC			
SNP_101684_A_75596	NW_004517019.1	scaffold1946	75596	TT	CC	CC	INTERGENIC			
SNP_101685_A_1465	NW_004517021.1	scaffold1949	1465	TT	AA	AA	INTERGENIC			
SNP_101686_A_1466	NW_004517021.1	scaffold1949	1466	AA	TT	TT	INTERGENIC			
SNP_101687_A_1914	NW_004517021.1	scaffold1949	1914	GG	TT	TT	INTERGENIC			
SNP_101688_A_22388	NW_004517022.1	scaffold1950	22388	TT	AA	AA	INTERGENIC			
SNP_101689_A_22393	NW_004517022.1	scaffold1950	22393	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101690_A_22436	NW_004517022.1	scaffold1950	22436	GG	TT	TT	INTERGENIC			
SNP_101691_A_22437	NW_004517022.1	scaffold1950	22437	AA	CC	CC	INTERGENIC			
SNP_101692_A_22438	NW_004517022.1	scaffold1950	22438	GG	AA	AA	INTERGENIC			
SNP_101693_A_22454	NW_004517022.1	scaffold1950	22454	TT	GG	GG	INTERGENIC			
SNP_101694_A_22498	NW_004517022.1	scaffold1950	22498	CC	AA	AA	INTERGENIC			
SNP_101696_A_22793	NW_004517022.1	scaffold1950	22793	GG	TT	TT	INTERGENIC			
SNP_101697_A_5730	NW_004517024.1	scaffold1952	5730	GG	TT	TT	INTERGENIC			
SNP_101698_A_5752	NW_004517024.1	scaffold1952	5752	CC	TT	TT	INTERGENIC			
SNP_101699_A_799	NW_004517026.1	scaffold1954	799	CC	TT	TT	INTERGENIC			
SNP_101700_A_908	NW_004517026.1	scaffold1954	908	GG	AA	AA	INTERGENIC			
SNP_101701_A_931	NW_004517026.1	scaffold1954	931	AA	CC	CC	INTERGENIC			
SNP_101702_A_1054	NW_004517026.1	scaffold1954	1054	TT	AA	AA	INTERGENIC			
SNP_101703_A_1062	NW_004517026.1	scaffold1954	1062	TT	CC	CC	INTERGENIC			
SNP_101704_A_1155	NW_004517026.1	scaffold1954	1155	TT	CC	CC	INTERGENIC			
SNP_101705_A_1164	NW_004517026.1	scaffold1954	1164	AA	TT	TT	INTERGENIC			
SNP_101706_A_1202	NW_004517026.1	scaffold1954	1202	TT	CC	CC	INTERGENIC			
SNP_101707_A_1293	NW_004517026.1	scaffold1954	1293	AA	TT	TT	INTERGENIC			
SNP_101708_A_1351	NW_004517026.1	scaffold1954	1351	TT	GG	GG	INTERGENIC			
SNP_101710_A_1503	NW_004517026.1	scaffold1954	1503	AA	TT	TT	INTERGENIC			
SNP_101711_A_2307	NW_004517026.1	scaffold1954	2307	AA	GG	GG	INTERGENIC			
SNP_101712_A_2332	NW_004517026.1	scaffold1954	2332	GG	AA	AA	INTERGENIC			
SNP_101713_A_2569	NW_004517026.1	scaffold1954	2569	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101714_A_2581	NW_004517026.1	scaffold1954	2581	AA	CC	CC	INTERGENIC			
SNP_101715_A_4837	NW_004517026.1	scaffold1954	4837	TT	AA	AA	INTERGENIC			
SNP_101716_A_4852	NW_004517026.1	scaffold1954	4852	TT	CC	CC	INTERGENIC			
SNP_101717_A_4860	NW_004517026.1	scaffold1954	4860	GG	TT	TT	INTERGENIC			
SNP_101718_A_4879	NW_004517026.1	scaffold1954	4879	AA	GG	GG	INTERGENIC			
SNP_101719_A_4933	NW_004517026.1	scaffold1954	4933	CC	TT	TT	INTERGENIC			
SNP_101720_A_4949	NW_004517026.1	scaffold1954	4949	TT	GG	GG	INTERGENIC			
SNP_101721_A_4974	NW_004517026.1	scaffold1954	4974	CC	TT	TT	INTERGENIC			
SNP_101722_A_9462	NW_004517028.1	scaffold1956	9462	CC	TT	TT	INTERGENIC			
SNP_101723_A_9716	NW_004517028.1	scaffold1956	9716	TT	CC	CC	INTERGENIC			
SNP_101724_A_9826	NW_004517028.1	scaffold1956	9826	CC	TT	TT	INTERGENIC			
SNP_101725_A_9910	NW_004517028.1	scaffold1956	9910	GG	AA	AA	INTERGENIC			
SNP_101726_A_9935	NW_004517028.1	scaffold1956	9935	AA	GG	GG	INTERGENIC			
SNP_101727_A_10129	NW_004517028.1	scaffold1956	10129	AA	GG	GG	INTERGENIC			
SNP_101728_A_14129	NW_004517028.1	scaffold1956	14129	TT	GG	GG	INTERGENIC			
SNP_101729_A_14223	NW_004517028.1	scaffold1956	14223	CC	TT	TT	INTERGENIC			
SNP_101730_A_14271	NW_004517028.1	scaffold1956	14271	TT	GG	GG	INTERGENIC			
SNP_101731_A_14276	NW_004517028.1	scaffold1956	14276	AA	GG	GG	INTERGENIC			
SNP_101732_A_14296	NW_004517028.1	scaffold1956	14296	GG	AA	AA	INTERGENIC			
SNP_101733_A_15974	NW_004517028.1	scaffold1956	15974	AA	GG	GG	INTERGENIC			
SNP_101734_A_15982	NW_004517028.1	scaffold1956	15982	GG	CC	CC	INTERGENIC			
SNP_101735_A_16500	NW_004517028.1	scaffold1956	16500	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101736_A_16866	NW_004517028.1	scaffold1956	16866	GG	CC	CC	INTERGENIC			
SNP_101737_A_17279	NW_004517028.1	scaffold1956	17279	CC	GG	GG	INTERGENIC			
SNP_101738_A_18393	NW_004517028.1	scaffold1956	18393	CC	AA	AA	INTERGENIC			
SNP_101739_A_18425	NW_004517028.1	scaffold1956	18425	CC	TT	TT	INTERGENIC			
SNP_101740_A_22730	NW_004517028.1	scaffold1956	22730	GG	AA	AA	INTERGENIC			
SNP_101741_A_27681	NW_004517028.1	scaffold1956	27681	TT	AA	AA	INTERGENIC			
SNP_101742_A_27791	NW_004517028.1	scaffold1956	27791	AA	GG	GG	INTERGENIC			
SNP_101743_A_27974	NW_004517028.1	scaffold1956	27974	GG	AA	AA	INTERGENIC			
SNP_101744_A_28022	NW_004517028.1	scaffold1956	28022	AA	GG	GG	INTERGENIC			
SNP_101745_A_28043	NW_004517028.1	scaffold1956	28043	TT	GG	GG	INTERGENIC			
SNP_101746_A_30794	NW_004517028.1	scaffold1956	30794	TT	CC	CC	INTERGENIC			
SNP_101747_A_30858	NW_004517028.1	scaffold1956	30858	TT	GG	GG	INTERGENIC			
SNP_101749_A_40829	NW_004517028.1	scaffold1956	40829	TT	CC	CC	INTERGENIC			
SNP_101750_A_40898	NW_004517028.1	scaffold1956	40898	GG	AA	AA	INTERGENIC			
SNP_101751_A_40962	NW_004517028.1	scaffold1956	40962	GG	AA	AA	INTERGENIC			
SNP_101752_A_40996	NW_004517028.1	scaffold1956	40996	TT	AA	AA	INTERGENIC			
SNP_101753_A_41803	NW_004517028.1	scaffold1956	41803	CC	TT	TT	INTERGENIC			
SNP_101754_A_46868	NW_004517028.1	scaffold1956	46868	TT	CC	CC	INTERGENIC			
SNP_101755_A_52596	NW_004517028.1	scaffold1956	52596	TT	AA	AA	INTERGENIC			
SNP_101756_A_52620	NW_004517028.1	scaffold1956	52620	CC	TT	TT	INTERGENIC			
SNP_101757_A_63356	NW_004517028.1	scaffold1956	63356	CC	AA	AA	INTERGENIC			
SNP_101758_A_63443	NW_004517028.1	scaffold1956	63443	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101759_A_63701	NW_004517028.1	scaffold1956	63701	CC	TT	TT	INTERGENIC		
SNP_101762_A_72186	NW_004517028.1	scaffold1956	72186	AA	TT	TT	INTERGENIC		
SNP_101763_A_72478	NW_004517028.1	scaffold1956	72478	AA	GG	GG	INTERGENIC		
SNP_101764_A_72491	NW_004517028.1	scaffold1956	72491	TT	GG	GG	INTERGENIC		
SNP_101765_A_72497	NW_004517028.1	scaffold1956	72497	AA	GG	GG	INTERGENIC		
SNP_101766_A_72498	NW_004517028.1	scaffold1956	72498	GG	AA	AA	INTERGENIC		
SNP_101767_A_72517	NW_004517028.1	scaffold1956	72517	TT	AA	AA	INTERGENIC		
SNP_101768_A_72526	NW_004517028.1	scaffold1956	72526	GG	TT	TT	INTERGENIC		
SNP_101769_A_72593	NW_004517028.1	scaffold1956	72593	AA	CC	CC	INTERGENIC		
SNP_101770_A_78755	NW_004517028.1	scaffold1956	78755	CC	TT	TT	INTERGENIC		
SNP_101771_A_81656	NW_004517028.1	scaffold1956	81656	CC	AA	AA	URR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_101772_A_85717	NW_004517028.1	scaffold1956	85717	CC	TT	TT	INTERGENIC		
SNP_101773_A_85880	NW_004517028.1	scaffold1956	85880	AA	TT	TT	INTERGENIC		
SNP_101775_A_86053	NW_004517028.1	scaffold1956	86053	AA	CC	CC	INTERGENIC		
SNP_101776_A_88025	NW_004517028.1	scaffold1956	88025	GG	AA	AA	INTERGENIC		
SNP_101777_A_88040	NW_004517028.1	scaffold1956	88040	AA	CC	CC	INTERGENIC		
SNP_101778_A_88263	NW_004517028.1	scaffold1956	88263	GG	TT	TT	INTERGENIC		
SNP_101779_A_88432	NW_004517028.1	scaffold1956	88432	AA	GG	GG	INTERGENIC		
SNP_101780_A_88531	NW_004517028.1	scaffold1956	88531	CC	AA	AA	INTERGENIC		
SNP_101781_A_88625	NW_004517028.1	scaffold1956	88625	CC	GG	GG	INTERGENIC		
SNP_101782_A_88636	NW_004517028.1	scaffold1956	88636	AA	TT	TT	INTERGENIC		
SNP_101783_A_88777	NW_004517028.1	scaffold1956	88777	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101784_A_93563	NW_004517028.1	scaffold1956	93563	TT	CC	CC	INTERGENIC			
SNP_101785_A_93685	NW_004517028.1	scaffold1956	93685	GG	TT	TT	INTERGENIC			
SNP_101786_A_96666	NW_004517028.1	scaffold1956	96666	CC	AA	AA	INTERGENIC			
SNP_101787_A_96667	NW_004517028.1	scaffold1956	96667	TT	GG	GG	INTERGENIC			
SNP_101788_A_96732	NW_004517028.1	scaffold1956	96732	GG	TT	TT	INTERGENIC			
SNP_101789_A_96733	NW_004517028.1	scaffold1956	96733	AA	TT	TT	INTERGENIC			
SNP_101790_A_119806	NW_004517028.1	scaffold1956	119806	CC	TT	TT	INTERGENIC			
SNP_101791_A_120035	NW_004517028.1	scaffold1956	120035	CC	GG	GG	INTERGENIC			
SNP_101792_A_120038	NW_004517028.1	scaffold1956	120038	CC	TT	TT	INTERGENIC			
SNP_101793_A_18964	NW_004517029.1	scaffold1959	18964	CC	TT	TT	INTERGENIC			
SNP_101794_A_19209	NW_004517029.1	scaffold1959	19209	TT	GG	GG	INTERGENIC			
SNP_101795_A_32620	NW_004517029.1	scaffold1959	32620	GG	CC	CC	INTERGENIC			
SNP_101796_A_32628	NW_004517029.1	scaffold1959	32628	GG	TT	TT	INTERGENIC			
SNP_101797_A_33312	NW_004517029.1	scaffold1959	33312	GG	AA	AA	INTERGENIC			
SNP_101798_A_33453	NW_004517029.1	scaffold1959	33453	GG	AA	AA	INTERGENIC			
SNP_101799_A_33467	NW_004517029.1	scaffold1959	33467	AA	GG	GG	INTERGENIC			
SNP_101800_A_44984	NW_004517029.1	scaffold1959	44984	GG	AA	AA	INTRON	101491975	two-component response regulator ARR10-like	
SNP_101801_A_45265	NW_004517029.1	scaffold1959	45265	AA	TT	TT	NON_SYNONYMOUS_CODING	101491975	two-component response regulator ARR10-like	
SNP_101802_A_45333	NW_004517029.1	scaffold1959	45333	CC	TT	TT	SYNONYMOUS_CODING	101491975	two-component response regulator ARR10-like	
SNP_101803_A_46567	NW_004517029.1	scaffold1959	46567	CC	TT	TT	URR	101491975	two-component response regulator ARR10-like	
SNP_101804_A_46569	NW_004517029.1	scaffold1959	46569	AA	GG	GG	URR	101491975	two-component response regulator ARR10-like	
SNP_101805_A_46647	NW_004517029.1	scaffold1959	46647	GG	TT	TT	URR	101491975	two-component response regulator ARR10-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101806_A_46694	NW_004517029.1	scaffold1959	46694	AA	CC	CC	URR	101491975	two-component response regulator ARR10-like
SNP_101807_A_46936	NW_004517029.1	scaffold1959	46936	CC	AA	AA	URR	101491975	two-component response regulator ARR10-like
SNP_101808_A_47215	NW_004517029.1	scaffold1959	47215	TT	CC	CC	URR	101491975	two-component response regulator ARR10-like
SNP_101810_A_47298	NW_004517029.1	scaffold1959	47298	CC	TT	TT	URR	101491975	two-component response regulator ARR10-like
SNP_101811_A_47522	NW_004517029.1	scaffold1959	47522	TT	GG	GG	URR	101491975	two-component response regulator ARR10-like
SNP_101812_A_47525	NW_004517029.1	scaffold1959	47525	GG	CC	CC	URR	101491975	two-component response regulator ARR10-like
SNP_101813_A_47589	NW_004517029.1	scaffold1959	47589	AA	GG	GG	URR	101491975	two-component response regulator ARR10-like
SNP_101814_A_47654	NW_004517029.1	scaffold1959	47654	TT	CC	GG	INTERGENIC		
SNP_101815_A_50288	NW_004517029.1	scaffold1959	50288	GG	AA	AA	DRR	101491134	Unknown function
SNP_101816_A_56695	NW_004517029.1	scaffold1959	56695	CC	TT	TT	INTERGENIC		
SNP_101817_A_59169	NW_004517029.1	scaffold1959	59169	AA	GG	GG	INTERGENIC		
SNP_101818_A_64316	NW_004517029.1	scaffold1959	64316	AA	TT	TT	URR	101492309	Unknown function
SNP_101819_A_64319	NW_004517029.1	scaffold1959	64319	AA	GG	GG	URR	101492309	Unknown function
SNP_101820_A_64335	NW_004517029.1	scaffold1959	64335	AA	GG	GG	URR	101492309	Unknown function
SNP_101821_A_64342	NW_004517029.1	scaffold1959	64342	CC	TT	TT	URR	101492309	Unknown function
SNP_101822_A_64546	NW_004517029.1	scaffold1959	64546	GG	AA	AA	URR	101492309	Unknown function
SNP_101823_A_64631	NW_004517029.1	scaffold1959	64631	TT	CC	CC	URR	101492309	Unknown function
SNP_101825_A_67732	NW_004517029.1	scaffold1959	67732	GG	AA	AA	INTERGENIC		
SNP_101826_A_68268	NW_004517029.1	scaffold1959	68268	AA	GG	GG	INTERGENIC		
SNP_101827_A_68274	NW_004517029.1	scaffold1959	68274	GG	CC	CC	INTERGENIC		
SNP_101828_A_83810	NW_004517029.1	scaffold1959	83810	GG	AA	AA	INTERGENIC		
SNP_101829_A_84997	NW_004517029.1	scaffold1959	84997	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101831_A_120312	NW_004517029.1	scaffold1959	120312	CC	TT	TT	URR	101492974	Unknown function
SNP_101832_A_120316	NW_004517029.1	scaffold1959	120316	TT	CC	CC	URR	101492974	Unknown function
SNP_101833_A_120687	NW_004517029.1	scaffold1959	120687	CC	TT	TT	URR	101492974	Unknown function
SNP_101834_A_124962	NW_004517029.1	scaffold1959	124962	AA	GG	GG	INTERGENIC		
SNP_101835_A_125024	NW_004517029.1	scaffold1959	125024	TT	GG	GG	INTERGENIC		
SNP_101836_A_125033	NW_004517029.1	scaffold1959	125033	TT	CC	CC	INTERGENIC		
SNP_101837_A_125323	NW_004517029.1	scaffold1959	125323	CC	TT	TT	INTERGENIC		
SNP_101838_A_125336	NW_004517029.1	scaffold1959	125336	CC	GG	GG	INTERGENIC		
SNP_101839_A_125363	NW_004517029.1	scaffold1959	125363	TT	CC	CC	INTERGENIC		
SNP_101840_A_125374	NW_004517029.1	scaffold1959	125374	TT	CC	CC	INTERGENIC		
SNP_101841_A_125379	NW_004517029.1	scaffold1959	125379	AA	GG	GG	INTERGENIC		
SNP_101842_A_125460	NW_004517029.1	scaffold1959	125460	CC	TT	TT	INTERGENIC		
SNP_101843_A_31665	NW_004517032.1	scaffold1962	31665	AA	TT	TT	INTERGENIC		
SNP_101844_A_33141	NW_004517032.1	scaffold1962	33141	CC	AA	AA	INTERGENIC		
SNP_101845_A_33502	NW_004517032.1	scaffold1962	33502	TT	CC	CC	INTERGENIC		
SNP_101846_A_33520	NW_004517032.1	scaffold1962	33520	TT	CC	CC	INTERGENIC		
SNP_101847_A_44277	NW_004517032.1	scaffold1962	44277	TT	CC	CC	INTERGENIC		
SNP_101848_A_44279	NW_004517032.1	scaffold1962	44279	TT	GG	GG	INTERGENIC		
SNP_101849_A_44482	NW_004517032.1	scaffold1962	44482	TT	GG	GG	INTERGENIC		
SNP_101850_A_44490	NW_004517032.1	scaffold1962	44490	GG	AA	AA	INTERGENIC		
SNP_101851_A_50174	NW_004517032.1	scaffold1962	50174	GG	TT	TT	DRR	101495222	uncharacterized LOC101495222
SNP_101852_A_74997	NW_004517032.1	scaffold1962	74997	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101853_A_92289	NW_004517032.1	scaffold1962	92289	TT	CC	CC	INTERGENIC			
SNP_101856_A_136201	NW_004517032.1	scaffold1962	136201	AA	TT	TT	INTERGENIC			
SNP_101858_A_170135	NW_004517032.1	scaffold1962	170135	CC	TT	TT	INTERGENIC			
SNP_101859_A_170303	NW_004517032.1	scaffold1962	170303	TT	GG	GG	INTERGENIC			
SNP_101860_A_170314	NW_004517032.1	scaffold1962	170314	CC	TT	TT	INTERGENIC			
SNP_101861_A_170553	NW_004517032.1	scaffold1962	170553	CC	TT	TT	INTERGENIC			
SNP_101862_A_170687	NW_004517032.1	scaffold1962	170687	CC	TT	TT	INTERGENIC			
SNP_101864_A_170743	NW_004517032.1	scaffold1962	170743	TT	CC	CC	INTERGENIC			
SNP_101865_A_170953	NW_004517032.1	scaffold1962	170953	GG	AA	AA	INTERGENIC			
SNP_101866_A_171057	NW_004517032.1	scaffold1962	171057	AA	TT	TT	INTERGENIC			
SNP_101867_A_2198	NW_004517033.1	scaffold1963	2198	AA	TT	TT	INTERGENIC			
SNP_101868_A_7258	NW_004517034.1	scaffold1964	7258	AA	GG	GG	INTERGENIC			
SNP_101869_A_7550	NW_004517034.1	scaffold1964	7550	TT	CC	CC	INTERGENIC			
SNP_101870_A_7736	NW_004517034.1	scaffold1964	7736	CC	TT	TT	INTERGENIC			
SNP_101871_A_7839	NW_004517034.1	scaffold1964	7839	GG	AA	AA	INTERGENIC			
SNP_101872_A_8291	NW_004517034.1	scaffold1964	8291	CC	TT	TT	INTERGENIC			
SNP_101873_A_8908	NW_004517034.1	scaffold1964	8908	AA	GG	GG	INTERGENIC			
SNP_101874_A_9086	NW_004517034.1	scaffold1964	9086	CC	GG	GG	INTERGENIC			
SNP_101875_A_9087	NW_004517034.1	scaffold1964	9087	TT	GG	GG	INTERGENIC			
SNP_101876_A_9088	NW_004517034.1	scaffold1964	9088	CC	AA	AA	INTERGENIC			
SNP_101877_A_9089	NW_004517034.1	scaffold1964	9089	CC	GG	GG	INTERGENIC			
SNP_101878_A_9348	NW_004517034.1	scaffold1964	9348	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101879_A_9550	NW_004517034.1	scaffold1964	9550	CC	GG	GG	INTERGENIC		
SNP_101880_A_10009	NW_004517034.1	scaffold1964	10009	GG	AA	AA	INTERGENIC		
SNP_101881_A_10272	NW_004517034.1	scaffold1964	10272	TT	CC	CC	DRR	101496202	uncharacterized LOC101496202
SNP_101882_A_10279	NW_004517034.1	scaffold1964	10279	GG	AA	AA	DRR	101496202	uncharacterized LOC101496202
SNP_101883_A_10442	NW_004517034.1	scaffold1964	10442	GG	AA	AA	DRR	101496202	uncharacterized LOC101496202
SNP_101884_A_10529	NW_004517034.1	scaffold1964	10529	AA	GG	GG	DRR	101496202	uncharacterized LOC101496202
SNP_101885_A_10764	NW_004517034.1	scaffold1964	10764	TT	CC	CC	DRR	101496202	uncharacterized LOC101496202
SNP_101886_A_10821	NW_004517034.1	scaffold1964	10821	AA	GG	GG	DRR	101496202	uncharacterized LOC101496202
SNP_101887_A_10842	NW_004517034.1	scaffold1964	10842	TT	GG	GG	DRR	101496202	uncharacterized LOC101496202
SNP_101889_A_11016	NW_004517034.1	scaffold1964	11016	GG	AA	AA	DRR	101496202	uncharacterized LOC101496202
SNP_101892_A_20246	NW_004517034.1	scaffold1964	20246	CC	TT	TT	INTERGENIC		
SNP_101893_A_20248	NW_004517034.1	scaffold1964	20248	CC	TT	TT	INTERGENIC		
SNP_101894_A_20257	NW_004517034.1	scaffold1964	20257	CC	AA	AA	INTERGENIC		
SNP_101896_A_20368	NW_004517034.1	scaffold1964	20368	TT	CC	CC	INTERGENIC		
SNP_101897_A_20394	NW_004517034.1	scaffold1964	20394	TT	AA	AA	INTERGENIC		
SNP_101898_A_20422	NW_004517034.1	scaffold1964	20422	GG	AA	AA	INTERGENIC		
SNP_101899_A_20442	NW_004517034.1	scaffold1964	20442	CC	TT	TT	INTERGENIC		
SNP_101900_A_20601	NW_004517034.1	scaffold1964	20601	AA	CC	CC	INTERGENIC		
SNP_101901_A_20811	NW_004517034.1	scaffold1964	20811	TT	CC	CC	INTERGENIC		
SNP_101902_A_20884	NW_004517034.1	scaffold1964	20884	GG	AA	AA	INTERGENIC		
SNP_101903_A_20885	NW_004517034.1	scaffold1964	20885	CC	TT	TT	INTERGENIC		
SNP_101904_A_21130	NW_004517034.1	scaffold1964	21130	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101905_A_21191	NW_004517034.1	scaffold1964	21191	AA	GG	GG	INTERGENIC			
SNP_101907_A_21717	NW_004517034.1	scaffold1964	21717	TT	CC	CC	INTERGENIC			
SNP_101908_A_21847	NW_004517034.1	scaffold1964	21847	AA	CC	CC	INTERGENIC			
SNP_101909_A_22615	NW_004517034.1	scaffold1964	22615	GG	CC	CC	INTERGENIC			
SNP_101910_A_22887	NW_004517034.1	scaffold1964	22887	AA	GG	GG	INTERGENIC			
SNP_101911_A_96919	NW_004517034.1	scaffold1964	96919	TT	CC	CC	INTERGENIC			
SNP_101912_A_112857	NW_004517034.1	scaffold1964	112857	AA	GG	GG	INTERGENIC			
SNP_101913_A_113306	NW_004517034.1	scaffold1964	113306	CC	TT	TT	INTERGENIC			
SNP_101915_A_143488	NW_004517034.1	scaffold1964	143488	AA	GG	GG	INTERGENIC			
SNP_101916_A_149407	NW_004517034.1	scaffold1964	149407	TT	AA	AA	INTERGENIC			
SNP_101917_A_171915	NW_004517034.1	scaffold1964	171915	TT	CC	CC	INTERGENIC			
SNP_101918_A_172096	NW_004517034.1	scaffold1964	172096	TT	CC	CC	INTERGENIC			
SNP_101920_A_172293	NW_004517034.1	scaffold1964	172293	AA	GG	GG	INTERGENIC			
SNP_101921_A_4056	NW_004517040.1	scaffold1971	4056	TT	CC	CC	INTERGENIC			
SNP_101922_A_4292	NW_004517040.1	scaffold1971	4292	TT	CC	CC	INTERGENIC			
SNP_101923_A_4445	NW_004517040.1	scaffold1971	4445	TT	CC	CC	INTERGENIC			
SNP_101924_A_1055	NW_004517042.1	scaffold1974	1055	AA	GG	GG	INTERGENIC			
SNP_101925_A_1180	NW_004517042.1	scaffold1974	1180	AA	TT	TT	INTERGENIC			
SNP_101926_A_1206	NW_004517042.1	scaffold1974	1206	GG	AA	AA	INTERGENIC			
SNP_101927_A_5339	NW_004517044.1	scaffold1976	5339	GG	CC	CC	INTERGENIC			
SNP_101928_A_5395	NW_004517044.1	scaffold1976	5395	CC	TT	TT	INTERGENIC			
SNP_101929_A_5613	NW_004517044.1	scaffold1976	5613	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101930_A_9298	NW_004517044.1	scaffold1976	9298	AA	GG	GG	INTERGENIC			
SNP_101931_A_9381	NW_004517044.1	scaffold1976	9381	AA	GG	GG	INTERGENIC			
SNP_101932_A_9421	NW_004517044.1	scaffold1976	9421	AA	GG	GG	INTERGENIC			
SNP_101933_A_9479	NW_004517044.1	scaffold1976	9479	TT	CC	CC	INTERGENIC			
SNP_101934_A_9511	NW_004517044.1	scaffold1976	9511	AA	GG	GG	INTERGENIC			
SNP_101935_A_10596	NW_004517044.1	scaffold1976	10596	CC	AA	AA	INTERGENIC			
SNP_101936_A_10738	NW_004517044.1	scaffold1976	10738	CC	TT	TT	INTERGENIC			
SNP_101937_A_10841	NW_004517044.1	scaffold1976	10841	GG	AA	AA	INTERGENIC			
SNP_101938_A_10858	NW_004517044.1	scaffold1976	10858	CC	AA	AA	INTERGENIC			
SNP_101939_A_10866	NW_004517044.1	scaffold1976	10866	GG	AA	AA	INTERGENIC			
SNP_101940_A_10876	NW_004517044.1	scaffold1976	10876	TT	CC	CC	INTERGENIC			
SNP_101941_A_10886	NW_004517044.1	scaffold1976	10886	TT	CC	CC	INTERGENIC			
SNP_101942_A_17113	NW_004517044.1	scaffold1976	17113	CC	TT	TT	INTERGENIC			
SNP_101943_A_21242	NW_004517044.1	scaffold1976	21242	AA	GG	GG	INTERGENIC			
SNP_101944_A_26169	NW_004517044.1	scaffold1976	26169	CC	TT	TT	INTERGENIC			
SNP_101945_A_26197	NW_004517044.1	scaffold1976	26197	CC	AA	AA	INTERGENIC			
SNP_101946_A_26216	NW_004517044.1	scaffold1976	26216	TT	CC	CC	INTERGENIC			
SNP_101947_A_26420	NW_004517044.1	scaffold1976	26420	CC	TT	TT	INTERGENIC			
SNP_101948_A_26490	NW_004517044.1	scaffold1976	26490	AA	GG	GG	INTERGENIC			
SNP_101949_A_27109	NW_004517044.1	scaffold1976	27109	AA	GG	GG	INTERGENIC			
SNP_101950_A_27139	NW_004517044.1	scaffold1976	27139	GG	AA	AA	INTERGENIC			
SNP_101951_A_27174	NW_004517044.1	scaffold1976	27174	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_101952_A_27175	NW_004517044.1	scaffold1976	27175	TT	CC	CC	INTERGENIC			
SNP_101953_A_27433	NW_004517044.1	scaffold1976	27433	AA	TT	TT	INTERGENIC			
SNP_101954_A_28209	NW_004517044.1	scaffold1976	28209	GG	AA	AA	INTERGENIC			
SNP_101955_A_28618	NW_004517044.1	scaffold1976	28618	AA	GG	GG	INTERGENIC			
SNP_101956_A_31214	NW_004517044.1	scaffold1976	31214	AA	GG	GG	INTERGENIC			
SNP_101957_A_31270	NW_004517044.1	scaffold1976	31270	TT	GG	GG	INTERGENIC			
SNP_101958_A_31612	NW_004517044.1	scaffold1976	31612	GG	AA	AA	INTERGENIC			
SNP_101959_A_50679	NW_004517046.1	scaffold1981	50679	AA	GG	GG	INTERGENIC			
SNP_101960_A_50824	NW_004517046.1	scaffold1981	50824	CC	TT	TT	INTERGENIC			
SNP_101961_A_82710	NW_004517046.1	scaffold1981	82710	AA	TT	TT	INTERGENIC			
SNP_101962_A_82774	NW_004517046.1	scaffold1981	82774	AA	TT	TT	INTERGENIC			
SNP_101963_A_83085	NW_004517046.1	scaffold1981	83085	CC	TT	TT	INTERGENIC			
SNP_101964_A_100200	NW_004517046.1	scaffold1981	100200	GG	AA	AA	INTERGENIC			
SNP_101966_A_100621	NW_004517046.1	scaffold1981	100621	GG	AA	AA	INTERGENIC			
SNP_101967_A_117404	NW_004517046.1	scaffold1981	117404	TT	AA	AA	INTERGENIC			
SNP_101970_A_126422	NW_004517046.1	scaffold1981	126422	AA	CC	CC	INTERGENIC			
SNP_101971_A_131434	NW_004517046.1	scaffold1981	131434	TT	CC	CC	INTERGENIC			
SNP_101972_A_145999	NW_004517046.1	scaffold1981	145999	TT	CC	CC	INTERGENIC			
SNP_101973_A_158928	NW_004517046.1	scaffold1981	158928	AA	CC	CC	INTERGENIC			
SNP_101974_A_159267	NW_004517046.1	scaffold1981	159267	AA	CC	CC	INTERGENIC			
SNP_101975_A_159315	NW_004517046.1	scaffold1981	159315	AA	CC	CC	INTERGENIC			
SNP_101976_A_164922	NW_004517046.1	scaffold1981	164922	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_101977_A_164958	NW_004517046.1	scaffold1981	164958	CC	AA	AA	INTERGENIC		
SNP_101978_A_182639	NW_004517046.1	scaffold1981	182639	TT	CC	CC	INTERGENIC		
SNP_101980_A_193531	NW_004517046.1	scaffold1981	193531	TT	CC	CC	INTERGENIC		
SNP_101981_A_234468	NW_004517046.1	scaffold1981	234468	GG	AA	AA	INTERGENIC		
SNP_101983_A_240669	NW_004517046.1	scaffold1981	240669	AA	TT	TT	DRR	101502333	uncharacterized LOC101502333
SNP_101984_A_240890	NW_004517046.1	scaffold1981	240890	TT	AA	AA	NON_SYNONYMOUS_CODING	id216115	Unknown function
SNP_101985_A_242067	NW_004517046.1	scaffold1981	242067	TT	CC	CC	NON_SYNONYMOUS_CODING	id216115	Unknown function
SNP_101986_A_243116	NW_004517046.1	scaffold1981	243116	TT	AA	AA	INTRON	id216115	Unknown function
SNP_101987_A_243491	NW_004517046.1	scaffold1981	243491	GG	AA	AA	INTRON	id216115	Unknown function
SNP_101988_A_244294	NW_004517046.1	scaffold1981	244294	TT	AA	AA	URR	101502333	uncharacterized LOC101502333
SNP_101989_A_276788	NW_004517046.1	scaffold1981	276788	AA	CC	CC	INTERGENIC		
SNP_101990_A_277055	NW_004517046.1	scaffold1981	277055	GG	AA	AA	INTERGENIC		
SNP_101991_A_277095	NW_004517046.1	scaffold1981	277095	TT	CC	CC	INTERGENIC		
SNP_101992_A_277372	NW_004517046.1	scaffold1981	277372	GG	AA	AA	INTERGENIC		
SNP_101994_A_304137	NW_004517046.1	scaffold1981	304137	GG	AA	AA	INTRON	101503391	histone H3-like centromeric protein HTR12-like
SNP_101995_A_310315	NW_004517046.1	scaffold1981	310315	GG	AA	AA	INTERGENIC		
SNP_101996_A_313094	NW_004517046.1	scaffold1981	313094	CC	TT	TT	INTERGENIC		
SNP_101998_A_320612	NW_004517046.1	scaffold1981	320612	GG	AA	AA	DRR	101507909	uncharacterized LOC101507909
SNP_101999_A_320635	NW_004517046.1	scaffold1981	320635	CC	TT	TT	DRR	101507909	uncharacterized LOC101507909
SNP_102000_A_320667	NW_004517046.1	scaffold1981	320667	TT	CC	CC	DRR	101507909	uncharacterized LOC101507909
SNP_102001_A_320672	NW_004517046.1	scaffold1981	320672	TT	CC	CC	DRR	101507909	uncharacterized LOC101507909
SNP_102002_A_320688	NW_004517046.1	scaffold1981	320688	AA	GG	GG	DRR	101507909	uncharacterized LOC101507909

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102003_A_320734	NW_004517046.1	scaffold1981	320734	TT	GG	GG	DRR	101507909	uncharacterized LOC101507909
SNP_102004_A_320780	NW_004517046.1	scaffold1981	320780	GG	AA	AA	SYNONYMOUS_CODING	101507909	uncharacterized LOC101507909
SNP_102005_A_320933	NW_004517046.1	scaffold1981	320933	TT	CC	CC	INTERGENIC		
SNP_102006_A_320942	NW_004517046.1	scaffold1981	320942	AA	GG	GG	INTERGENIC		
SNP_102007_A_320958	NW_004517046.1	scaffold1981	320958	CC	TT	TT	INTERGENIC		
SNP_102008_A_321072	NW_004517046.1	scaffold1981	321072	GG	AA	AA	INTERGENIC		
SNP_102009_A_336033	NW_004517046.1	scaffold1981	336033	AA	TT	TT	URR	101504054	uncharacterized LOC101504054
SNP_102010_A_336037	NW_004517046.1	scaffold1981	336037	TT	CC	CC	URR	101504054	uncharacterized LOC101504054
SNP_102011_A_336040	NW_004517046.1	scaffold1981	336040	TT	CC	CC	URR	101504054	uncharacterized LOC101504054
SNP_102012_A_341140	NW_004517046.1	scaffold1981	341140	AA	TT	TT	URR	101504909	pentatricopeptide repeat-containing protein At4g01030, mitochondrial
SNP_102013_A_341947	NW_004517046.1	scaffold1981	341947	TT	CC	CC	DRR	101504365	abscisic acid receptor PYL9-like
SNP_102015_A_348178	NW_004517046.1	scaffold1981	348178	AA	TT	TT	INTERGENIC		
SNP_102016_A_348555	NW_004517046.1	scaffold1981	348555	GG	AA	AA	INTERGENIC		
SNP_102017_A_349229	NW_004517046.1	scaffold1981	349229	TT	AA	AA	INTERGENIC		
SNP_102018_A_349308	NW_004517046.1	scaffold1981	349308	CC	TT	TT	INTERGENIC		
SNP_102019_A_352031	NW_004517046.1	scaffold1981	352031	GG	AA	AA	INTERGENIC		
SNP_102020_A_352035	NW_004517046.1	scaffold1981	352035	TT	AA	AA	INTERGENIC		
SNP_102022_A_355139	NW_004517046.1	scaffold1981	355139	TT	GG	GG	INTERGENIC		
SNP_102023_A_355286	NW_004517046.1	scaffold1981	355286	TT	CC	CC	INTERGENIC		
SNP_102024_A_355336	NW_004517046.1	scaffold1981	355336	GG	AA	AA	INTERGENIC		
SNP_102026_A_355798	NW_004517046.1	scaffold1981	355798	AA	TT	TT	INTERGENIC		
SNP_102027_A_355807	NW_004517046.1	scaffold1981	355807	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102028_A_356967	NW_004517046.1	scaffold1981	356967	CC	AA	AA	INTERGENIC			
SNP_102029_A_356968	NW_004517046.1	scaffold1981	356968	TT	CC	CC	INTERGENIC			
SNP_102030_A_356979	NW_004517046.1	scaffold1981	356979	CC	AA	AA	INTERGENIC			
SNP_102031_A_356989	NW_004517046.1	scaffold1981	356989	CC	TT	TT	INTERGENIC			
SNP_102032_A_357001	NW_004517046.1	scaffold1981	357001	CC	AA	AA	INTERGENIC			
SNP_102033_A_357128	NW_004517046.1	scaffold1981	357128	AA	TT	TT	INTERGENIC			
SNP_102036_A_359269	NW_004517046.1	scaffold1981	359269	AA	CC	CC	INTERGENIC			
SNP_102037_A_359745	NW_004517046.1	scaffold1981	359745	TT	GG	GG	INTERGENIC			
SNP_102038_A_366460	NW_004517046.1	scaffold1981	366460	GG	AA	AA	INTERGENIC			
SNP_102040_A_368007	NW_004517046.1	scaffold1981	368007	TT	CC	CC	INTERGENIC			
SNP_102042_A_370566	NW_004517046.1	scaffold1981	370566	CC	TT	TT	INTERGENIC			
SNP_102043_A_370587	NW_004517046.1	scaffold1981	370587	AA	CC	CC	INTERGENIC			
SNP_102044_A_371393	NW_004517046.1	scaffold1981	371393	GG	AA	AA	INTERGENIC			
SNP_102045_A_371421	NW_004517046.1	scaffold1981	371421	TT	CC	CC	INTERGENIC			
SNP_102047_A_372630	NW_004517046.1	scaffold1981	372630	CC	AA	AA	INTERGENIC			
SNP_102048_A_375016	NW_004517046.1	scaffold1981	375016	AA	GG	GG	INTERGENIC			
SNP_102049_A_375018	NW_004517046.1	scaffold1981	375018	TT	CC	CC	INTERGENIC			
SNP_102050_A_375033	NW_004517046.1	scaffold1981	375033	CC	TT	TT	INTERGENIC			
SNP_102051_A_376270	NW_004517046.1	scaffold1981	376270	TT	CC	CC	INTERGENIC			
SNP_102052_A_376287	NW_004517046.1	scaffold1981	376287	TT	CC	CC	INTERGENIC			
SNP_102053_A_376291	NW_004517046.1	scaffold1981	376291	CC	TT	TT	INTERGENIC			
SNP_102054_A_377093	NW_004517046.1	scaffold1981	377093	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102055_A_378579	NW_004517046.1	scaffold1981	378579	GG	TT	TT	INTERGENIC		
SNP_102056_A_378603	NW_004517046.1	scaffold1981	378603	CC	TT	TT	INTERGENIC		
SNP_102057_A_385947	NW_004517046.1	scaffold1981	385947	CC	TT	TT	INTERGENIC		
SNP_102058_A_387273	NW_004517046.1	scaffold1981	387273	CC	TT	TT	INTERGENIC		
SNP_102059_A_390240	NW_004517046.1	scaffold1981	390240	GG	CC	CC	DRR	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102060_A_390316	NW_004517046.1	scaffold1981	390316	GG	TT	TT	DRR	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102061_A_390453	NW_004517046.1	scaffold1981	390453	CC	TT	TT	DRR	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102062_A_390797	NW_004517046.1	scaffold1981	390797	AA	CC	CC	DRR	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102063_A_390807	NW_004517046.1	scaffold1981	390807	CC	TT	TT	DRR	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102064_A_392999	NW_004517046.1	scaffold1981	392999	TT	CC	CC	INTERGENIC		
SNP_102065_A_393560	NW_004517046.1	scaffold1981	393560	TT	CC	CC	INTRON	101505990	DEAD-box ATP-dependent RNA helicase 31-like
SNP_102066_A_401141	NW_004517046.1	scaffold1981	401141	GG	AA	AA	INTRON	101508225	probable trehalose-phosphate phosphatase 1
SNP_102067_A_401178	NW_004517046.1	scaffold1981	401178	TT	CC	CC	INTRON	101508225	probable trehalose-phosphate phosphatase 1
SNP_102068_A_401186	NW_004517046.1	scaffold1981	401186	TT	CC	CC	INTRON	101508225	probable trehalose-phosphate phosphatase 1
SNP_102069_A_401894	NW_004517046.1	scaffold1981	401894	AA	GG	GG	INTRON	101508225	probable trehalose-phosphate phosphatase 1
SNP_102070_A_402246	NW_004517046.1	scaffold1981	402246	AA	CC	CC	INTRON	101508225	probable trehalose-phosphate phosphatase 1
SNP_102071_A_408456	NW_004517046.1	scaffold1981	408456	AA	GG	GG	INTERGENIC		
SNP_102072_A_408457	NW_004517046.1	scaffold1981	408457	AA	TT	TT	INTERGENIC		
SNP_102073_A_408460	NW_004517046.1	scaffold1981	408460	TT	AA	AA	INTERGENIC		
SNP_102074_A_408823	NW_004517046.1	scaffold1981	408823	AA	GG	GG	INTERGENIC		
SNP_102075_A_411492	NW_004517046.1	scaffold1981	411492	CC	TT	TT	INTERGENIC		
SNP_102076_A_411501	NW_004517046.1	scaffold1981	411501	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102077_A_411506	NW_004517046.1	scaffold1981	411506	AA	GG	GG	INTERGENIC			
SNP_102078_A_418427	NW_004517046.1	scaffold1981	418427	TT	CC	CC	INTERGENIC			
SNP_102081_A_421717	NW_004517046.1	scaffold1981	421717	AA	GG	GG	INTERGENIC			
SNP_102082_A_423031	NW_004517046.1	scaffold1981	423031	CC	TT	TT	INTERGENIC			
SNP_102083_A_423035	NW_004517046.1	scaffold1981	423035	TT	CC	CC	INTERGENIC			
SNP_102084_A_423078	NW_004517046.1	scaffold1981	423078	GG	AA	AA	INTERGENIC			
SNP_102085_A_423096	NW_004517046.1	scaffold1981	423096	TT	CC	CC	INTERGENIC			
SNP_102086_A_423103	NW_004517046.1	scaffold1981	423103	AA	GG	GG	INTERGENIC			
SNP_102087_A_423126	NW_004517046.1	scaffold1981	423126	GG	TT	TT	INTERGENIC			
SNP_102088_A_431458	NW_004517046.1	scaffold1981	431458	AA	TT	TT	INTERGENIC			
SNP_102089_A_431472	NW_004517046.1	scaffold1981	431472	GG	AA	AA	INTERGENIC			
SNP_102090_A_5246	NW_004517048.1	scaffold1983	5246	GG	CC	CC	INTERGENIC			
SNP_102092_A_29059	NW_004517048.1	scaffold1983	29059	TT	GG	GG	INTERGENIC			
SNP_102093_A_48137	NW_004517048.1	scaffold1983	48137	TT	AA	AA	INTERGENIC			
SNP_102094_A_48293	NW_004517048.1	scaffold1983	48293	AA	GG	GG	INTERGENIC			
SNP_102095_A_62770	NW_004517048.1	scaffold1983	62770	TT	AA	AA	INTERGENIC			
SNP_102096_A_62806	NW_004517048.1	scaffold1983	62806	AA	GG	GG	INTERGENIC			
SNP_102097_A_62824	NW_004517048.1	scaffold1983	62824	TT	CC	CC	INTERGENIC			
SNP_102099_A_63409	NW_004517048.1	scaffold1983	63409	TT	AA	AA	INTERGENIC			
SNP_102100_A_63502	NW_004517048.1	scaffold1983	63502	TT	AA	AA	INTERGENIC			
SNP_102101_A_9988	NW_004517049.1	scaffold1984	9988	TT	CC	CC	INTERGENIC			
SNP_102102_A_30958	NW_004517049.1	scaffold1984	30958	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102103_A_63840	NW_004517049.1	scaffold1984	63840	CC	TT	TT	INTERGENIC		
SNP_102104_A_68422	NW_004517049.1	scaffold1984	68422	AA	GG	GG	URR	101509721	Unknown function
SNP_102105_A_88473	NW_004517049.1	scaffold1984	88473	AA	GG	GG	INTERGENIC		
SNP_102106_A_88476	NW_004517049.1	scaffold1984	88476	TT	CC	CC	INTERGENIC		
SNP_102107_A_96555	NW_004517049.1	scaffold1984	96555	TT	GG	GG	INTERGENIC		
SNP_102109_A_135980	NW_004517049.1	scaffold1984	135980	TT	CC	CC	INTERGENIC		
SNP_102110_A_136144	NW_004517049.1	scaffold1984	136144	AA	TT	TT	INTERGENIC		
SNP_102111_A_138110	NW_004517049.1	scaffold1984	138110	TT	CC	CC	INTERGENIC		
SNP_102112_A_171935	NW_004517049.1	scaffold1984	171935	GG	AA	AA	INTERGENIC		
SNP_102113_A_172470	NW_004517049.1	scaffold1984	172470	TT	GG	GG	INTERGENIC		
SNP_102114_A_237150	NW_004517049.1	scaffold1984	237150	TT	AA	AA	INTERGENIC		
SNP_102115_A_243882	NW_004517049.1	scaffold1984	243882	TT	GG	GG	SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102116_A_243891	NW_004517049.1	scaffold1984	243891	AA	TT	TT	SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102117_A_243949	NW_004517049.1	scaffold1984	243949	TT	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102118_A_243972	NW_004517049.1	scaffold1984	243972	GG	TT	TT	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102119_A_243997	NW_004517049.1	scaffold1984	243997	AA	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102120_A_244006	NW_004517049.1	scaffold1984	244006	TT	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102121_A_244125	NW_004517049.1	scaffold1984	244125	TT	AA	AA	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102122_A_244344	NW_004517049.1	scaffold1984	244344	TT	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102123_A_244461	NW_004517049.1	scaffold1984	244461	AA	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102124_A_244511	NW_004517049.1	scaffold1984	244511	AA	GG	GG	NON_SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042
SNP_102125_A_244513	NW_004517049.1	scaffold1984	244513	AA	GG	GG	SYNONYMOUS_CODING	101510042	uncharacterized LOC101510042

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102126_A_247046	NW_004517049.1	scaffold1984	247046	GG	AA	AA	INTERGENIC		
SNP_102127_A_251618	NW_004517049.1	scaffold1984	251618	CC	GG	GG	INTRON	101510369	uncharacterized LOC101510369
SNP_102128_A_251622	NW_004517049.1	scaffold1984	251622	TT	CC	CC	INTRON	101510369	uncharacterized LOC101510369
SNP_102129_A_251651	NW_004517049.1	scaffold1984	251651	TT	CC	CC	INTRON	101510369	uncharacterized LOC101510369
SNP_102130_A_251798	NW_004517049.1	scaffold1984	251798	AA	GG	GG	INTRON	101510369	uncharacterized LOC101510369
SNP_102131_A_251801	NW_004517049.1	scaffold1984	251801	CC	TT	TT	INTRON	101510369	uncharacterized LOC101510369
SNP_102132_A_251978	NW_004517049.1	scaffold1984	251978	AA	CC	CC	INTRON	101510369	uncharacterized LOC101510369
SNP_102133_A_252033	NW_004517049.1	scaffold1984	252033	GG	AA	AA	INTRON	101510369	uncharacterized LOC101510369
SNP_102134_A_253206	NW_004517049.1	scaffold1984	253206	TT	GG	GG	INTRON	101510369	uncharacterized LOC101510369
SNP_102135_A_253263	NW_004517049.1	scaffold1984	253263	GG	AA	AA	INTRON	101510369	uncharacterized LOC101510369
SNP_102136_A_253317	NW_004517049.1	scaffold1984	253317	AA	GG	GG	INTRON	101510369	uncharacterized LOC101510369
SNP_102137_A_253565	NW_004517049.1	scaffold1984	253565	TT	AA	AA	INTRON	101510369	uncharacterized LOC101510369
SNP_102138_A_253837	NW_004517049.1	scaffold1984	253837	GG	CC	CC	SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102139_A_255335	NW_004517049.1	scaffold1984	255335	TT	CC	CC	NON_SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102140_A_255673	NW_004517049.1	scaffold1984	255673	AA	GG	GG	NON_SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102141_A_255682	NW_004517049.1	scaffold1984	255682	TT	GG	GG	NON_SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102142_A_255706	NW_004517049.1	scaffold1984	255706	AA	CC	CC	NON_SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102143_A_255749	NW_004517049.1	scaffold1984	255749	TT	CC	CC	SYNONYMOUS_CODING	101510369	uncharacterized LOC101510369
SNP_102145_A_323144	NW_004517049.1	scaffold1984	323144	TT	AA	AA	INTERGENIC		
SNP_102146_A_323400	NW_004517049.1	scaffold1984	323400	AA	GG	GG	INTERGENIC		
SNP_102147_A_323527	NW_004517049.1	scaffold1984	323527	TT	AA	AA	INTERGENIC		
SNP_102148_A_323575	NW_004517049.1	scaffold1984	323575	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102149_A_323593	NW_004517049.1	scaffold1984	323593	TT	CC	CC	INTERGENIC			
SNP_102150_A_323614	NW_004517049.1	scaffold1984	323614	CC	TT	TT	INTERGENIC			
SNP_102152_A_323802	NW_004517049.1	scaffold1984	323802	TT	CC	CC	INTERGENIC			
SNP_102153_A_323805	NW_004517049.1	scaffold1984	323805	AA	GG	GG	INTERGENIC			
SNP_102154_A_323847	NW_004517049.1	scaffold1984	323847	AA	GG	GG	INTERGENIC			
SNP_102155_A_323868	NW_004517049.1	scaffold1984	323868	CC	TT	TT	INTERGENIC			
SNP_102156_A_325206	NW_004517049.1	scaffold1984	325206	GG	AA	AA	INTERGENIC			
SNP_102157_A_325320	NW_004517049.1	scaffold1984	325320	AA	GG	GG	INTERGENIC			
SNP_102158_A_325346	NW_004517049.1	scaffold1984	325346	AA	GG	GG	INTERGENIC			
SNP_102159_A_325392	NW_004517049.1	scaffold1984	325392	TT	CC	CC	INTERGENIC			
SNP_102160_A_325529	NW_004517049.1	scaffold1984	325529	TT	AA	AA	INTERGENIC			
SNP_102161_A_325550	NW_004517049.1	scaffold1984	325550	TT	CC	CC	INTERGENIC			
SNP_102162_A_325559	NW_004517049.1	scaffold1984	325559	TT	CC	CC	INTERGENIC			
SNP_102163_A_325586	NW_004517049.1	scaffold1984	325586	GG	AA	AA	INTERGENIC			
SNP_102164_A_325685	NW_004517049.1	scaffold1984	325685	GG	AA	AA	INTERGENIC			
SNP_102165_A_325713	NW_004517049.1	scaffold1984	325713	GG	AA	AA	INTERGENIC			
SNP_102166_A_325744	NW_004517049.1	scaffold1984	325744	TT	AA	AA	INTERGENIC			
SNP_102167_A_325754	NW_004517049.1	scaffold1984	325754	AA	GG	GG	INTERGENIC			
SNP_102168_A_325761	NW_004517049.1	scaffold1984	325761	AA	CC	CC	INTERGENIC			
SNP_102169_A_325784	NW_004517049.1	scaffold1984	325784	GG	AA	AA	INTERGENIC			
SNP_102170_A_325790	NW_004517049.1	scaffold1984	325790	GG	AA	AA	INTERGENIC			
SNP_102171_A_325808	NW_004517049.1	scaffold1984	325808	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102172_A_325871	NW_004517049.1	scaffold1984	325871	AA	GG	GG	INTERGENIC			
SNP_102173_A_337904	NW_004517049.1	scaffold1984	337904	CC	TT	TT	INTERGENIC			
SNP_102174_A_342607	NW_004517049.1	scaffold1984	342607	CC	AA	AA	INTERGENIC			
SNP_102175_A_351213	NW_004517049.1	scaffold1984	351213	CC	TT	TT	INTERGENIC			
SNP_102176_A_359332	NW_004517049.1	scaffold1984	359332	TT	CC	CC	INTERGENIC			
SNP_102177_A_359978	NW_004517049.1	scaffold1984	359978	AA	GG	GG	INTERGENIC			
SNP_102178_A_360007	NW_004517049.1	scaffold1984	360007	AA	GG	GG	INTERGENIC			
SNP_102179_A_360316	NW_004517049.1	scaffold1984	360316	AA	GG	GG	INTERGENIC			
SNP_102180_A_362646	NW_004517049.1	scaffold1984	362646	AA	CC	CC	INTERGENIC			
SNP_102181_A_363077	NW_004517049.1	scaffold1984	363077	CC	TT	TT	INTERGENIC			
SNP_102182_A_363281	NW_004517049.1	scaffold1984	363281	TT	CC	CC	INTERGENIC			
SNP_102183_A_378057	NW_004517049.1	scaffold1984	378057	TT	AA	AA	INTERGENIC			
SNP_102184_A_384374	NW_004517049.1	scaffold1984	384374	CC	AA	AA	INTERGENIC			
SNP_102185_A_384375	NW_004517049.1	scaffold1984	384375	AA	TT	TT	INTERGENIC			
SNP_102186_A_384722	NW_004517049.1	scaffold1984	384722	AA	GG	GG	INTERGENIC			
SNP_102187_A_384744	NW_004517049.1	scaffold1984	384744	TT	GG	GG	INTERGENIC			
SNP_102188_A_384861	NW_004517049.1	scaffold1984	384861	AA	CC	CC	INTERGENIC			
SNP_102189_A_386604	NW_004517049.1	scaffold1984	386604	AA	TT	TT	INTERGENIC			
SNP_102191_A_386714	NW_004517049.1	scaffold1984	386714	GG	AA	AA	INTERGENIC			
SNP_102192_A_386835	NW_004517049.1	scaffold1984	386835	AA	GG	GG	INTERGENIC			
SNP_102193_A_386943	NW_004517049.1	scaffold1984	386943	TT	CC	CC	INTERGENIC			
SNP_102194_A_386963	NW_004517049.1	scaffold1984	386963	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102195_A_387057	NW_004517049.1	scaffold1984	387057	GG	AA	AA	INTERGENIC			
SNP_102196_A_387105	NW_004517049.1	scaffold1984	387105	CC	TT	TT	INTERGENIC			
SNP_102197_A_387139	NW_004517049.1	scaffold1984	387139	TT	CC	CC	INTERGENIC			
SNP_102198_A_387239	NW_004517049.1	scaffold1984	387239	TT	AA	AA	INTERGENIC			
SNP_102200_A_29943	NW_004517050.1	scaffold1985	29943	TT	GG	GG	INTERGENIC			
SNP_102201_A_61636	NW_004517050.1	scaffold1985	61636	GG	AA	AA	INTERGENIC			
SNP_102202_A_109538	NW_004517050.1	scaffold1985	109538	AA	GG	GG	INTERGENIC			
SNP_102203_A_109805	NW_004517050.1	scaffold1985	109805	AA	GG	GG	INTERGENIC			
SNP_102204_A_109834	NW_004517050.1	scaffold1985	109834	AA	GG	GG	INTERGENIC			
SNP_102205_A_110115	NW_004517050.1	scaffold1985	110115	AA	TT	TT	INTERGENIC			
SNP_102206_A_110299	NW_004517050.1	scaffold1985	110299	TT	AA	AA	INTERGENIC			
SNP_102207_A_110305	NW_004517050.1	scaffold1985	110305	AA	GG	GG	INTERGENIC			
SNP_102208_A_142093	NW_004517050.1	scaffold1985	142093	TT	CC	CC	INTERGENIC			
SNP_102209_A_3744	NW_004517052.1	scaffold1987	3744	TT	CC	CC	INTERGENIC			
SNP_102210_A_3745	NW_004517052.1	scaffold1987	3745	TT	AA	AA	INTERGENIC			
SNP_102211_A_4737	NW_004517053.1	scaffold1988	4737	TT	CC	CC	INTERGENIC			
SNP_102212_A_4794	NW_004517053.1	scaffold1988	4794	AA	GG	GG	INTERGENIC			
SNP_102213_A_4798	NW_004517053.1	scaffold1988	4798	GG	CC	CC	INTERGENIC			
SNP_102214_A_4965	NW_004517053.1	scaffold1988	4965	CC	GG	GG	INTERGENIC			
SNP_102215_A_4988	NW_004517053.1	scaffold1988	4988	GG	AA	AA	INTERGENIC			
SNP_102216_A_5207	NW_004517053.1	scaffold1988	5207	CC	TT	TT	INTERGENIC			
SNP_102217_A_5307	NW_004517053.1	scaffold1988	5307	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102218_A_7515	NW_004517053.1	scaffold1988	7515	TT	AA	AA	INTERGENIC			
SNP_102219_A_7756	NW_004517053.1	scaffold1988	7756	TT	GG	GG	INTERGENIC			
SNP_102221_A_13837	NW_004517053.1	scaffold1988	13837	TT	CC	CC	INTERGENIC			
SNP_102222_A_14100	NW_004517053.1	scaffold1988	14100	CC	TT	TT	INTERGENIC			
SNP_102223_A_4399	NW_004517055.1	scaffold1990	4399	AA	GG	GG	INTERGENIC			
SNP_102224_A_4406	NW_004517055.1	scaffold1990	4406	TT	CC	CC	INTERGENIC			
SNP_102225_A_4473	NW_004517055.1	scaffold1990	4473	AA	GG	GG	INTERGENIC			
SNP_102227_A_22655	NW_004517055.1	scaffold1990	22655	CC	TT	TT	INTERGENIC			
SNP_102228_A_92472	NW_004517056.1	scaffold1991	92472	AA	TT	TT	URR	101513686	Unknown function	
SNP_102229_A_92475	NW_004517056.1	scaffold1991	92475	TT	AA	AA	URR	101513686	Unknown function	
SNP_102230_A_100123	NW_004517056.1	scaffold1991	100123	TT	CC	CC	INTERGENIC			
SNP_102231_A_113487	NW_004517056.1	scaffold1991	113487	CC	AA	AA	INTERGENIC			
SNP_102232_A_113518	NW_004517056.1	scaffold1991	113518	AA	GG	GG	INTERGENIC			
SNP_102233_A_113915	NW_004517056.1	scaffold1991	113915	TT	CC	CC	INTERGENIC			
SNP_102234_A_113975	NW_004517056.1	scaffold1991	113975	GG	AA	AA	INTERGENIC			
SNP_102235_A_113988	NW_004517056.1	scaffold1991	113988	AA	GG	GG	INTERGENIC			
SNP_102236_A_113998	NW_004517056.1	scaffold1991	113998	GG	AA	AA	INTERGENIC			
SNP_102237_A_114003	NW_004517056.1	scaffold1991	114003	CC	TT	TT	INTERGENIC			
SNP_102238_A_114007	NW_004517056.1	scaffold1991	114007	TT	CC	CC	INTERGENIC			
SNP_102239_A_114008	NW_004517056.1	scaffold1991	114008	CC	TT	TT	INTERGENIC			
SNP_102240_A_632	NW_004517061.1	scaffold1996	632	GG	AA	AA	INTERGENIC			
SNP_102241_A_744	NW_004517061.1	scaffold1996	744	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102242_A_895	NW_004517061.1	scaffold1996	895	CC	TT	TT	INTERGENIC		
SNP_102243_A_1036	NW_004517061.1	scaffold1996	1036	CC	TT	TT	INTERGENIC		
SNP_102244_A_1039	NW_004517061.1	scaffold1996	1039	CC	TT	TT	INTERGENIC		
SNP_102245_A_1041	NW_004517061.1	scaffold1996	1041	GG	AA	AA	INTERGENIC		
SNP_102246_A_1057	NW_004517061.1	scaffold1996	1057	GG	AA	AA	INTERGENIC		
SNP_102247_A_1084	NW_004517061.1	scaffold1996	1084	CC	TT	TT	INTERGENIC		
SNP_102248_A_1099	NW_004517061.1	scaffold1996	1099	CC	AA	AA	INTERGENIC		
SNP_102250_A_5502	NW_004517061.1	scaffold1996	5502	GG	AA	AA	INTERGENIC		
SNP_102251_A_5518	NW_004517061.1	scaffold1996	5518	GG	TT	TT	INTERGENIC		
SNP_102252_A_5563	NW_004517061.1	scaffold1996	5563	AA	GG	GG	INTERGENIC		
SNP_102253_A_5631	NW_004517061.1	scaffold1996	5631	CC	TT	TT	INTERGENIC		
SNP_102255_A_5863	NW_004517061.1	scaffold1996	5863	GG	AA	AA	INTERGENIC		
SNP_102256_A_5866	NW_004517061.1	scaffold1996	5866	TT	CC	CC	INTERGENIC		
SNP_102257_A_5902	NW_004517061.1	scaffold1996	5902	TT	AA	AA	INTERGENIC		
SNP_102258_A_5947	NW_004517061.1	scaffold1996	5947	CC	TT	TT	INTERGENIC		
SNP_102260_A_6048	NW_004517061.1	scaffold1996	6048	GG	AA	AA	INTERGENIC		
SNP_102261_A_6059	NW_004517061.1	scaffold1996	6059	CC	TT	TT	INTERGENIC		
SNP_102262_A_6074	NW_004517061.1	scaffold1996	6074	AA	GG	GG	INTERGENIC		
SNP_102263_A_15196	NW_004517062.1	scaffold1997	15196	TT	GG	GG	DRR	101515006	uncharacterized LOC101515006
SNP_102264_A_15572	NW_004517062.1	scaffold1997	15572	TT	CC	CC	INTERGENIC		
SNP_102265_A_22262	NW_004517062.1	scaffold1997	22262	CC	TT	TT	URR	101515333	uncharacterized LOC101515333
SNP_102266_A_3035	NW_004517063.1	scaffold1999	3035	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102267_A_3092	NW_004517063.1	scaffold1999	3092	TT	CC	CC	INTERGENIC			
SNP_102268_A_4026	NW_004517063.1	scaffold1999	4026	TT	CC	CC	INTERGENIC			
SNP_102269_A_7088	NW_004517063.1	scaffold1999	7088	GG	AA	AA	INTERGENIC			
SNP_102270_A_7310	NW_004517063.1	scaffold1999	7310	CC	AA	AA	INTERGENIC			
SNP_102272_A_9986	NW_004517063.1	scaffold1999	9986	CC	TT	TT	INTERGENIC			
SNP_102274_A_25076	NW_004517063.1	scaffold1999	25076	TT	CC	CC	INTERGENIC			
SNP_102275_A_25728	NW_004517063.1	scaffold1999	25728	AA	TT	TT	INTERGENIC			
SNP_102276_A_25931	NW_004517063.1	scaffold1999	25931	GG	TT	TT	INTERGENIC			
SNP_102277_A_26052	NW_004517063.1	scaffold1999	26052	TT	AA	AA	INTERGENIC			
SNP_102278_A_27769	NW_004517063.1	scaffold1999	27769	GG	AA	AA	INTERGENIC			
SNP_102280_A_28230	NW_004517063.1	scaffold1999	28230	GG	AA	AA	INTERGENIC			
SNP_102283_A_29969	NW_004517063.1	scaffold1999	29969	AA	GG	GG	INTERGENIC			
SNP_102286_A_30133	NW_004517063.1	scaffold1999	30133	CC	TT	TT	INTERGENIC			
SNP_102287_A_30249	NW_004517063.1	scaffold1999	30249	GG	AA	AA	INTERGENIC			
SNP_102288_A_30319	NW_004517063.1	scaffold1999	30319	TT	AA	AA	INTERGENIC			
SNP_102289_A_30490	NW_004517063.1	scaffold1999	30490	CC	TT	TT	INTERGENIC			
SNP_102290_A_30698	NW_004517063.1	scaffold1999	30698	TT	AA	AA	INTERGENIC			
SNP_102291_A_30719	NW_004517063.1	scaffold1999	30719	AA	GG	GG	INTERGENIC			
SNP_102292_A_30741	NW_004517063.1	scaffold1999	30741	CC	TT	TT	INTERGENIC			
SNP_102293_A_31052	NW_004517063.1	scaffold1999	31052	CC	AA	AA	INTERGENIC			
SNP_102294_A_31134	NW_004517063.1	scaffold1999	31134	AA	TT	TT	INTERGENIC			
SNP_102295_A_31258	NW_004517063.1	scaffold1999	31258	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102296_A_31902	NW_004517063.1	scaffold1999	31902	CC	GG	GG	INTERGENIC			
SNP_102297_A_31963	NW_004517063.1	scaffold1999	31963	CC	TT	TT	INTERGENIC			
SNP_102298_A_31975	NW_004517063.1	scaffold1999	31975	CC	AA	AA	INTERGENIC			
SNP_102299_A_32111	NW_004517063.1	scaffold1999	32111	TT	AA	AA	INTERGENIC			
SNP_102300_A_32312	NW_004517063.1	scaffold1999	32312	TT	CC	CC	INTERGENIC			
SNP_102301_A_32326	NW_004517063.1	scaffold1999	32326	CC	GG	GG	INTERGENIC			
SNP_102302_A_32374	NW_004517063.1	scaffold1999	32374	GG	AA	AA	INTERGENIC			
SNP_102303_A_32470	NW_004517063.1	scaffold1999	32470	AA	GG	GG	INTERGENIC			
SNP_102304_A_32503	NW_004517063.1	scaffold1999	32503	TT	GG	GG	INTERGENIC			
SNP_102305_A_32602	NW_004517063.1	scaffold1999	32602	GG	TT	TT	INTERGENIC			
SNP_102306_A_1127	NW_004517064.1	scaffold2000	1127	CC	TT	TT	INTERGENIC			
SNP_102307_A_1140	NW_004517064.1	scaffold2000	1140	TT	CC	CC	INTERGENIC			
SNP_102308_A_1164	NW_004517064.1	scaffold2000	1164	GG	AA	AA	INTERGENIC			
SNP_102309_A_1245	NW_004517064.1	scaffold2000	1245	AA	GG	GG	INTERGENIC			
SNP_102310_A_1376	NW_004517064.1	scaffold2000	1376	CC	TT	TT	INTERGENIC			
SNP_102311_A_1444	NW_004517064.1	scaffold2000	1444	GG	AA	AA	INTERGENIC			
SNP_102312_A_1523	NW_004517064.1	scaffold2000	1523	CC	GG	GG	INTERGENIC			
SNP_102314_A_1565	NW_004517064.1	scaffold2000	1565	AA	GG	GG	INTERGENIC			
SNP_102315_A_1606	NW_004517064.1	scaffold2000	1606	AA	CC	CC	INTERGENIC			
SNP_102316_A_1613	NW_004517064.1	scaffold2000	1613	TT	GG	GG	INTERGENIC			
SNP_102317_A_1625	NW_004517064.1	scaffold2000	1625	CC	AA	AA	INTERGENIC			
SNP_102318_A_1627	NW_004517064.1	scaffold2000	1627	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102319_A_1671	NW_004517064.1	scaffold2000	1671	TT	GG	GG	INTERGENIC			
SNP_102320_A_1686	NW_004517064.1	scaffold2000	1686	GG	CC	CC	INTERGENIC			
SNP_102321_A_1709	NW_004517064.1	scaffold2000	1709	GG	AA	AA	INTERGENIC			
SNP_102322_A_1746	NW_004517064.1	scaffold2000	1746	TT	CC	CC	INTERGENIC			
SNP_102323_A_1750	NW_004517064.1	scaffold2000	1750	TT	AA	AA	INTERGENIC			
SNP_102324_A_1754	NW_004517064.1	scaffold2000	1754	TT	AA	AA	INTERGENIC			
SNP_102325_A_1765	NW_004517064.1	scaffold2000	1765	TT	CC	CC	INTERGENIC			
SNP_102326_A_2158	NW_004517064.1	scaffold2000	2158	GG	TT	TT	INTERGENIC			
SNP_102327_A_2163	NW_004517064.1	scaffold2000	2163	CC	AA	AA	INTERGENIC			
SNP_102328_A_2251	NW_004517064.1	scaffold2000	2251	TT	AA	AA	INTERGENIC			
SNP_102329_A_2351	NW_004517064.1	scaffold2000	2351	TT	AA	AA	INTERGENIC			
SNP_102330_A_2382	NW_004517064.1	scaffold2000	2382	CC	AA	AA	INTERGENIC			
SNP_102331_A_2396	NW_004517064.1	scaffold2000	2396	AA	GG	GG	INTERGENIC			
SNP_102332_A_2418	NW_004517064.1	scaffold2000	2418	GG	TT	TT	INTERGENIC			
SNP_102333_A_2530	NW_004517064.1	scaffold2000	2530	AA	CC	CC	INTERGENIC			
SNP_102334_A_2557	NW_004517064.1	scaffold2000	2557	AA	GG	GG	INTERGENIC			
SNP_102335_A_2560	NW_004517064.1	scaffold2000	2560	CC	AA	AA	INTERGENIC			
SNP_102336_A_2577	NW_004517064.1	scaffold2000	2577	GG	TT	TT	INTERGENIC			
SNP_102337_A_2580	NW_004517064.1	scaffold2000	2580	AA	TT	TT	INTERGENIC			
SNP_102338_A_2641	NW_004517064.1	scaffold2000	2641	GG	CC	CC	INTERGENIC			
SNP_102339_A_2678	NW_004517064.1	scaffold2000	2678	CC	AA	AA	INTERGENIC			
SNP_102340_A_2730	NW_004517064.1	scaffold2000	2730	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102341_A_2811	NW_004517064.1	scaffold2000	2811	AA	CC	CC	INTERGENIC			
SNP_102342_A_2852	NW_004517064.1	scaffold2000	2852	GG	AA	AA	INTERGENIC			
SNP_102343_A_2878	NW_004517064.1	scaffold2000	2878	CC	AA	AA	INTERGENIC			
SNP_102344_A_2917	NW_004517064.1	scaffold2000	2917	AA	GG	GG	INTERGENIC			
SNP_102345_A_2922	NW_004517064.1	scaffold2000	2922	TT	AA	AA	INTERGENIC			
SNP_102346_A_2937	NW_004517064.1	scaffold2000	2937	CC	TT	TT	INTERGENIC			
SNP_102347_A_2944	NW_004517064.1	scaffold2000	2944	TT	AA	AA	INTERGENIC			
SNP_102348_A_2965	NW_004517064.1	scaffold2000	2965	CC	AA	AA	INTERGENIC			
SNP_102349_A_2971	NW_004517064.1	scaffold2000	2971	CC	AA	AA	INTERGENIC			
SNP_102350_A_3027	NW_004517064.1	scaffold2000	3027	GG	CC	CC	INTERGENIC			
SNP_102351_A_3039	NW_004517064.1	scaffold2000	3039	AA	GG	GG	INTERGENIC			
SNP_102352_A_9452	NW_004517064.1	scaffold2000	9452	CC	TT	TT	INTERGENIC			
SNP_102353_A_9516	NW_004517064.1	scaffold2000	9516	TT	AA	AA	INTERGENIC			
SNP_102354_A_9867	NW_004517064.1	scaffold2000	9867	AA	GG	GG	INTERGENIC			
SNP_102355_A_9933	NW_004517064.1	scaffold2000	9933	AA	GG	GG	INTERGENIC			
SNP_102356_A_10811	NW_004517064.1	scaffold2000	10811	GG	AA	AA	INTERGENIC			
SNP_102358_A_10890	NW_004517064.1	scaffold2000	10890	TT	CC	CC	INTERGENIC			
SNP_102360_A_11166	NW_004517064.1	scaffold2000	11166	TT	CC	CC	INTERGENIC			
SNP_102361_A_11238	NW_004517064.1	scaffold2000	11238	GG	CC	CC	INTERGENIC			
SNP_102362_A_11259	NW_004517064.1	scaffold2000	11259	CC	GG	GG	INTERGENIC			
SNP_102363_A_11276	NW_004517064.1	scaffold2000	11276	GG	AA	AA	INTERGENIC			
SNP_102364_A_11302	NW_004517064.1	scaffold2000	11302	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102365_A_11341	NW_004517064.1	scaffold2000	11341	AA	GG	GG	INTERGENIC			
SNP_102366_A_11365	NW_004517064.1	scaffold2000	11365	CC	TT	TT	INTERGENIC			
SNP_102367_A_11411	NW_004517064.1	scaffold2000	11411	CC	GG	GG	INTERGENIC			
SNP_102368_A_11425	NW_004517064.1	scaffold2000	11425	TT	GG	GG	INTERGENIC			
SNP_102369_A_11544	NW_004517064.1	scaffold2000	11544	AA	GG	GG	INTERGENIC			
SNP_102370_A_11569	NW_004517064.1	scaffold2000	11569	CC	GG	GG	INTERGENIC			
SNP_102371_A_11735	NW_004517064.1	scaffold2000	11735	CC	GG	GG	INTERGENIC			
SNP_102372_A_13866	NW_004517064.1	scaffold2000	13866	AA	GG	GG	INTERGENIC			
SNP_102374_A_13894	NW_004517064.1	scaffold2000	13894	TT	GG	GG	INTERGENIC			
SNP_102375_A_13948	NW_004517064.1	scaffold2000	13948	CC	AA	AA	INTERGENIC			
SNP_102376_A_13950	NW_004517064.1	scaffold2000	13950	CC	TT	TT	INTERGENIC			
SNP_102377_A_14156	NW_004517064.1	scaffold2000	14156	AA	CC	CC	INTERGENIC			
SNP_102379_A_14240	NW_004517064.1	scaffold2000	14240	AA	GG	GG	INTERGENIC			
SNP_102380_A_14241	NW_004517064.1	scaffold2000	14241	CC	TT	TT	INTERGENIC			
SNP_102381_A_14266	NW_004517064.1	scaffold2000	14266	TT	CC	CC	INTERGENIC			
SNP_102382_A_18454	NW_004517064.1	scaffold2000	18454	AA	CC	CC	INTERGENIC			
SNP_102383_A_18504	NW_004517064.1	scaffold2000	18504	TT	CC	CC	INTERGENIC			
SNP_102384_A_18818	NW_004517064.1	scaffold2000	18818	TT	GG	GG	INTERGENIC			
SNP_102385_A_20118	NW_004517064.1	scaffold2000	20118	TT	AA	AA	INTERGENIC			
SNP_102386_A_20419	NW_004517064.1	scaffold2000	20419	GG	TT	TT	INTERGENIC			
SNP_102387_A_21397	NW_004517064.1	scaffold2000	21397	CC	TT	TT	INTERGENIC			
SNP_102388_A_21414	NW_004517064.1	scaffold2000	21414	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102389_A_21423	NW_004517064.1	scaffold2000	21423	TT	CC	CC	INTERGENIC			
SNP_102390_A_21424	NW_004517064.1	scaffold2000	21424	AA	CC	CC	INTERGENIC			
SNP_102391_A_21425	NW_004517064.1	scaffold2000	21425	TT	AA	AA	INTERGENIC			
SNP_102392_A_21435	NW_004517064.1	scaffold2000	21435	GG	AA	AA	INTERGENIC			
SNP_102394_A_21517	NW_004517064.1	scaffold2000	21517	AA	CC	CC	INTERGENIC			
SNP_102395_A_21555	NW_004517064.1	scaffold2000	21555	AA	TT	TT	INTERGENIC			
SNP_102396_A_21557	NW_004517064.1	scaffold2000	21557	CC	AA	AA	INTERGENIC			
SNP_102397_A_21718	NW_004517064.1	scaffold2000	21718	GG	CC	CC	INTERGENIC			
SNP_102399_A_26646	NW_004517064.1	scaffold2000	26646	TT	AA	AA	INTERGENIC			
SNP_102400_A_26885	NW_004517064.1	scaffold2000	26885	AA	TT	TT	INTERGENIC			
SNP_102401_A_26888	NW_004517064.1	scaffold2000	26888	AA	CC	CC	INTERGENIC			
SNP_102402_A_3604	NW_004517066.1	scaffold2003	3604	TT	CC	CC	INTERGENIC			
SNP_102403_A_3606	NW_004517066.1	scaffold2003	3606	AA	TT	TT	INTERGENIC			
SNP_102404_A_3643	NW_004517066.1	scaffold2003	3643	TT	GG	GG	INTERGENIC			
SNP_102405_A_3688	NW_004517066.1	scaffold2003	3688	CC	GG	GG	INTERGENIC			
SNP_102406_A_3704	NW_004517066.1	scaffold2003	3704	GG	CC	CC	INTERGENIC			
SNP_102407_A_3713	NW_004517066.1	scaffold2003	3713	TT	CC	CC	INTERGENIC			
SNP_102408_A_3719	NW_004517066.1	scaffold2003	3719	GG	TT	TT	INTERGENIC			
SNP_102409_A_3727	NW_004517066.1	scaffold2003	3727	CC	TT	TT	INTERGENIC			
SNP_102410_A_3740	NW_004517066.1	scaffold2003	3740	CC	AA	AA	INTERGENIC			
SNP_102411_A_3771	NW_004517066.1	scaffold2003	3771	GG	AA	AA	INTERGENIC			
SNP_102412_A_3774	NW_004517066.1	scaffold2003	3774	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102413_A_3778	NW_004517066.1	scaffold2003	3778	CC	TT	TT	INTERGENIC			
SNP_102414_A_3789	NW_004517066.1	scaffold2003	3789	AA	GG	GG	INTERGENIC			
SNP_102415_A_7157	NW_004517066.1	scaffold2003	7157	CC	TT	TT	INTERGENIC			
SNP_102416_A_7505	NW_004517066.1	scaffold2003	7505	GG	TT	TT	INTERGENIC			
SNP_102418_A_12480	NW_004517066.1	scaffold2003	12480	AA	GG	GG	INTERGENIC			
SNP_102419_A_12500	NW_004517066.1	scaffold2003	12500	AA	TT	TT	INTERGENIC			
SNP_102420_A_12525	NW_004517066.1	scaffold2003	12525	TT	AA	AA	INTERGENIC			
SNP_102422_A_13297	NW_004517066.1	scaffold2003	13297	TT	CC	CC	INTERGENIC			
SNP_102423_A_14420	NW_004517066.1	scaffold2003	14420	TT	AA	AA	INTERGENIC			
SNP_102424_A_14644	NW_004517066.1	scaffold2003	14644	AA	TT	TT	INTERGENIC			
SNP_102425_A_19133	NW_004517066.1	scaffold2003	19133	AA	GG	GG	INTERGENIC			
SNP_102426_A_19539	NW_004517066.1	scaffold2003	19539	AA	TT	TT	INTERGENIC			
SNP_102427_A_19544	NW_004517066.1	scaffold2003	19544	GG	TT	TT	INTERGENIC			
SNP_102428_A_19894	NW_004517066.1	scaffold2003	19894	TT	CC	CC	INTERGENIC			
SNP_102429_A_19909	NW_004517066.1	scaffold2003	19909	CC	AA	AA	INTERGENIC			
SNP_102430_A_22637	NW_004517066.1	scaffold2003	22637	CC	AA	AA	INTERGENIC			
SNP_102431_A_22924	NW_004517066.1	scaffold2003	22924	CC	AA	AA	INTERGENIC			
SNP_102432_A_23263	NW_004517066.1	scaffold2003	23263	CC	TT	TT	INTERGENIC			
SNP_102433_A_23376	NW_004517066.1	scaffold2003	23376	AA	TT	TT	INTERGENIC			
SNP_102434_A_23414	NW_004517066.1	scaffold2003	23414	TT	CC	CC	INTERGENIC			
SNP_102435_A_23473	NW_004517066.1	scaffold2003	23473	GG	CC	CC	INTERGENIC			
SNP_102436_A_23554	NW_004517066.1	scaffold2003	23554	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102437_A_23555	NW_004517066.1	scaffold2003	23555	CC	TT	TT	INTERGENIC			
SNP_102438_A_23621	NW_004517066.1	scaffold2003	23621	CC	TT	TT	INTERGENIC			
SNP_102441_A_10866	NW_004517067.1	scaffold2004	10866	CC	TT	TT	INTERGENIC			
SNP_102442_A_3132	NW_004517068.1	scaffold2005	3132	CC	TT	TT	INTERGENIC			
SNP_102443_A_3150	NW_004517068.1	scaffold2005	3150	AA	GG	GG	INTERGENIC			
SNP_102444_A_3282	NW_004517068.1	scaffold2005	3282	TT	CC	CC	INTERGENIC			
SNP_102446_A_5557	NW_004517068.1	scaffold2005	5557	AA	GG	GG	INTERGENIC			
SNP_102447_A_5916	NW_004517068.1	scaffold2005	5916	AA	CC	CC	INTERGENIC			
SNP_102448_A_9185	NW_004517068.1	scaffold2005	9185	TT	CC	CC	INTERGENIC			
SNP_102449_A_11968	NW_004517068.1	scaffold2005	11968	CC	GG	GG	INTERGENIC			
SNP_102450_A_12947	NW_004517068.1	scaffold2005	12947	TT	CC	CC	INTERGENIC			
SNP_102451_A_13036	NW_004517068.1	scaffold2005	13036	TT	CC	CC	INTERGENIC			
SNP_102453_A_22845	NW_004517068.1	scaffold2005	22845	TT	AA	AA	INTERGENIC			
SNP_102454_A_22850	NW_004517068.1	scaffold2005	22850	AA	CC	CC	INTERGENIC			
SNP_102455_A_23279	NW_004517068.1	scaffold2005	23279	AA	GG	GG	INTERGENIC			
SNP_102456_A_23885	NW_004517068.1	scaffold2005	23885	TT	AA	AA	INTERGENIC			
SNP_102457_A_25260	NW_004517068.1	scaffold2005	25260	TT	GG	GG	INTERGENIC			
SNP_102458_A_32384	NW_004517068.1	scaffold2005	32384	TT	CC	CC	INTERGENIC			
SNP_102460_A_1158	NW_004517069.1	scaffold2006	1158	CC	TT	TT	INTERGENIC			
SNP_102461_A_1194	NW_004517069.1	scaffold2006	1194	AA	TT	TT	INTERGENIC			
SNP_102462_A_1201	NW_004517069.1	scaffold2006	1201	CC	TT	TT	INTERGENIC			
SNP_102463_A_449	NW_004517070.1	scaffold2008	449	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102464_A_96	NW_004517072.1	scaffold2010	96	GG	TT	TT	INTERGENIC			
SNP_102465_A_2916	NW_004517072.1	scaffold2010	2916	AA	GG	GG	INTERGENIC			
SNP_102466_A_3314	NW_004517072.1	scaffold2010	3314	GG	TT	TT	INTERGENIC			
SNP_102467_A_3505	NW_004517072.1	scaffold2010	3505	AA	GG	GG	INTERGENIC			
SNP_102468_A_3620	NW_004517072.1	scaffold2010	3620	TT	CC	CC	INTERGENIC			
SNP_102470_A_3696	NW_004517072.1	scaffold2010	3696	TT	GG	GG	INTERGENIC			
SNP_102471_A_3711	NW_004517072.1	scaffold2010	3711	AA	TT	TT	INTERGENIC			
SNP_102472_A_3748	NW_004517072.1	scaffold2010	3748	TT	AA	AA	INTERGENIC			
SNP_102473_A_3755	NW_004517072.1	scaffold2010	3755	GG	AA	AA	INTERGENIC			
SNP_102474_A_3765	NW_004517072.1	scaffold2010	3765	CC	TT	TT	INTERGENIC			
SNP_102475_A_3766	NW_004517072.1	scaffold2010	3766	TT	AA	AA	INTERGENIC			
SNP_102476_A_3768	NW_004517072.1	scaffold2010	3768	TT	CC	CC	INTERGENIC			
SNP_102477_A_3769	NW_004517072.1	scaffold2010	3769	TT	AA	AA	INTERGENIC			
SNP_102478_A_3771	NW_004517072.1	scaffold2010	3771	AA	CC	CC	INTERGENIC			
SNP_102479_A_3772	NW_004517072.1	scaffold2010	3772	CC	TT	TT	INTERGENIC			
SNP_102480_A_3776	NW_004517072.1	scaffold2010	3776	AA	GG	GG	INTERGENIC			
SNP_102481_A_3798	NW_004517072.1	scaffold2010	3798	TT	AA	AA	INTERGENIC			
SNP_102482_A_3803	NW_004517072.1	scaffold2010	3803	GG	AA	AA	INTERGENIC			
SNP_102483_A_4168	NW_004517072.1	scaffold2010	4168	TT	CC	CC	INTERGENIC			
SNP_102484_A_5403	NW_004517072.1	scaffold2010	5403	TT	CC	CC	INTERGENIC			
SNP_102485_A_5819	NW_004517072.1	scaffold2010	5819	CC	AA	AA	INTERGENIC			
SNP_102486_A_6079	NW_004517072.1	scaffold2010	6079	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102487_A_6403	NW_004517072.1	scaffold2010	6403	GG	AA	AA	INTERGENIC		
SNP_102488_A_6507	NW_004517072.1	scaffold2010	6507	AA	CC	CC	INTERGENIC		
SNP_102489_A_6544	NW_004517072.1	scaffold2010	6544	GG	AA	AA	INTERGENIC		
SNP_102491_A_6879	NW_004517072.1	scaffold2010	6879	CC	AA	AA	INTERGENIC		
SNP_102492_A_6917	NW_004517072.1	scaffold2010	6917	CC	TT	TT	INTERGENIC		
SNP_102493_A_7016	NW_004517072.1	scaffold2010	7016	TT	GG	GG	INTERGENIC		
SNP_102494_A_7254	NW_004517072.1	scaffold2010	7254	TT	CC	CC	INTERGENIC		
SNP_102495_A_7484	NW_004517072.1	scaffold2010	7484	GG	AA	AA	INTERGENIC		
SNP_102496_A_7532	NW_004517072.1	scaffold2010	7532	CC	AA	AA	INTERGENIC		
SNP_102497_A_7575	NW_004517072.1	scaffold2010	7575	AA	CC	CC	INTERGENIC		
SNP_102499_A_8148	NW_004517072.1	scaffold2010	8148	CC	TT	TT	INTERGENIC		
SNP_102500_A_8235	NW_004517072.1	scaffold2010	8235	TT	CC	CC	INTERGENIC		
SNP_102501_A_8336	NW_004517072.1	scaffold2010	8336	AA	GG	GG	INTERGENIC		
SNP_102502_A_8348	NW_004517072.1	scaffold2010	8348	TT	CC	CC	INTERGENIC		
SNP_102503_A_8411	NW_004517072.1	scaffold2010	8411	GG	TT	TT	INTERGENIC		
SNP_102504_A_1589	NW_004517078.1	scaffold2017	1589	AA	GG	GG	INTERGENIC		
SNP_102505_A_1708	NW_004517078.1	scaffold2017	1708	GG	TT	TT	INTERGENIC		
SNP_102506_A_1719	NW_004517078.1	scaffold2017	1719	TT	GG	GG	INTERGENIC		
SNP_102507_A_1895	NW_004517078.1	scaffold2017	1895	CC	TT	TT	INTERGENIC		
SNP_102508_A_1156	NW_004517079.1	scaffold2018	1156	CC	AA	AA	INTRON	101488518	Unknown function
SNP_102509_A_2520	NW_004517079.1	scaffold2018	2520	AA	GG	GG	URR	101488518	Unknown function
SNP_102510_A_2802	NW_004517079.1	scaffold2018	2802	TT	GG	GG	URR	101488518	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102511_A_4172	NW_004517079.1	scaffold2018	4172	AA	GG	GG	URR	101488518	Unknown function
SNP_102513_A_5396	NW_004517079.1	scaffold2018	5396	CC	TT	TT	INTERGENIC		
SNP_102514_A_5538	NW_004517079.1	scaffold2018	5538	TT	AA	AA	INTERGENIC		
SNP_102515_A_5832	NW_004517079.1	scaffold2018	5832	AA	CC	CC	DRR	101515657	Unknown function
SNP_102516_A_6384	NW_004517079.1	scaffold2018	6384	CC	TT	TT	DRR	101515657	Unknown function
SNP_102517_A_13979	NW_004517079.1	scaffold2018	13979	TT	AA	AA	INTERGENIC		
SNP_102519_A_18029	NW_004517079.1	scaffold2018	18029	TT	CC	CC	INTERGENIC		
SNP_102520_A_18262	NW_004517079.1	scaffold2018	18262	TT	CC	CC	INTERGENIC		
SNP_102521_A_18723	NW_004517079.1	scaffold2018	18723	AA	TT	TT	INTERGENIC		
SNP_102522_A_19823	NW_004517079.1	scaffold2018	19823	AA	GG	GG	INTERGENIC		
SNP_102523_A_21454	NW_004517079.1	scaffold2018	21454	CC	AA	AA	INTERGENIC		
SNP_102524_A_21455	NW_004517079.1	scaffold2018	21455	TT	CC	CC	INTERGENIC		
SNP_102525_A_21997	NW_004517079.1	scaffold2018	21997	AA	TT	TT	INTERGENIC		
SNP_102526_A_22004	NW_004517079.1	scaffold2018	22004	GG	AA	AA	INTERGENIC		
SNP_102527_A_22020	NW_004517079.1	scaffold2018	22020	TT	GG	GG	INTERGENIC		
SNP_102528_A_22028	NW_004517079.1	scaffold2018	22028	AA	GG	GG	INTERGENIC		
SNP_102529_A_22937	NW_004517079.1	scaffold2018	22937	CC	TT	TT	INTERGENIC		
SNP_102530_A_23357	NW_004517079.1	scaffold2018	23357	CC	AA	AA	DRR	101488299	uncharacterized LOC101488299
SNP_102531_A_23807	NW_004517079.1	scaffold2018	23807	GG	AA	AA	DRR	101488299	uncharacterized LOC101488299
SNP_102532_A_25652	NW_004517079.1	scaffold2018	25652	CC	TT	TT	URR	101488299	uncharacterized LOC101488299
SNP_102533_A_27539	NW_004517079.1	scaffold2018	27539	CC	TT	TT	INTERGENIC		
SNP_102534_A_27551	NW_004517079.1	scaffold2018	27551	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102535_A_27579	NW_004517079.1	scaffold2018	27579	GG	TT	TT	INTERGENIC			
SNP_102536_A_27584	NW_004517079.1	scaffold2018	27584	CC	GG	GG	INTERGENIC			
SNP_102537_A_27587	NW_004517079.1	scaffold2018	27587	AA	GG	GG	INTERGENIC			
SNP_102538_A_27749	NW_004517079.1	scaffold2018	27749	TT	CC	CC	INTERGENIC			
SNP_102539_A_27752	NW_004517079.1	scaffold2018	27752	GG	CC	CC	INTERGENIC			
SNP_102540_A_27816	NW_004517079.1	scaffold2018	27816	TT	CC	CC	INTERGENIC			
SNP_102542_A_28385	NW_004517079.1	scaffold2018	28385	CC	TT	TT	INTERGENIC			
SNP_102543_A_28388	NW_004517079.1	scaffold2018	28388	GG	TT	TT	INTERGENIC			
SNP_102544_A_28488	NW_004517079.1	scaffold2018	28488	AA	TT	TT	INTERGENIC			
SNP_102545_A_28571	NW_004517079.1	scaffold2018	28571	GG	TT	TT	INTERGENIC			
SNP_102546_A_28607	NW_004517079.1	scaffold2018	28607	TT	CC	CC	INTERGENIC			
SNP_102547_A_6383	NW_004517080.1	scaffold2020	6383	AA	TT	TT	INTERGENIC			
SNP_102548_A_6391	NW_004517080.1	scaffold2020	6391	TT	CC	CC	INTERGENIC			
SNP_102549_A_6913	NW_004517080.1	scaffold2020	6913	AA	GG	GG	INTERGENIC			
SNP_102550_A_6944	NW_004517080.1	scaffold2020	6944	TT	AA	AA	INTERGENIC			
SNP_102551_A_7375	NW_004517080.1	scaffold2020	7375	GG	AA	AA	INTERGENIC			
SNP_102552_A_7383	NW_004517080.1	scaffold2020	7383	TT	AA	AA	INTERGENIC			
SNP_102553_A_7409	NW_004517080.1	scaffold2020	7409	TT	CC	CC	INTERGENIC			
SNP_102554_A_7416	NW_004517080.1	scaffold2020	7416	GG	AA	AA	INTERGENIC			
SNP_102555_A_7459	NW_004517080.1	scaffold2020	7459	CC	AA	AA	INTERGENIC			
SNP_102556_A_7495	NW_004517080.1	scaffold2020	7495	GG	TT	TT	INTERGENIC			
SNP_102558_A_7507	NW_004517080.1	scaffold2020	7507	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102559_A_7565	NW_004517080.1	scaffold2020	7565	AA	CC	CC	INTERGENIC			
SNP_102560_A_7579	NW_004517080.1	scaffold2020	7579	CC	TT	TT	INTERGENIC			
SNP_102561_A_7582	NW_004517080.1	scaffold2020	7582	TT	AA	AA	INTERGENIC			
SNP_102562_A_7616	NW_004517080.1	scaffold2020	7616	TT	GG	GG	INTERGENIC			
SNP_102563_A_7668	NW_004517080.1	scaffold2020	7668	TT	CC	CC	INTERGENIC			
SNP_102564_A_7687	NW_004517080.1	scaffold2020	7687	AA	GG	GG	INTERGENIC			
SNP_102565_A_7697	NW_004517080.1	scaffold2020	7697	AA	CC	CC	INTERGENIC			
SNP_102566_A_7859	NW_004517080.1	scaffold2020	7859	CC	TT	TT	INTERGENIC			
SNP_102567_A_7863	NW_004517080.1	scaffold2020	7863	TT	AA	AA	INTERGENIC			
SNP_102568_A_11910	NW_004517080.1	scaffold2020	11910	AA	TT	TT	INTERGENIC			
SNP_102569_A_13584	NW_004517080.1	scaffold2020	13584	TT	AA	AA	INTERGENIC			
SNP_102570_A_13716	NW_004517080.1	scaffold2020	13716	CC	TT	TT	INTERGENIC			
SNP_102571_A_1399	NW_004517082.1	scaffold2022	1399	CC	GG	GG	INTERGENIC			
SNP_102572_A_61333	NW_004517082.1	scaffold2022	61333	TT	GG	GG	INTERGENIC			
SNP_102573_A_66734	NW_004517082.1	scaffold2022	66734	AA	TT	TT	NON_SYNONYMOUS_CODING	101489188	Unknown function	
SNP_102574_A_83111	NW_004517082.1	scaffold2022	83111	TT	CC	CC	INTERGENIC			
SNP_102575_A_110529	NW_004517082.1	scaffold2022	110529	TT	CC	CC	INTERGENIC			
SNP_102576_A_110761	NW_004517082.1	scaffold2022	110761	AA	TT	TT	INTERGENIC			
SNP_102577_A_110790	NW_004517082.1	scaffold2022	110790	AA	GG	GG	INTERGENIC			
SNP_102578_A_110809	NW_004517082.1	scaffold2022	110809	TT	CC	CC	INTERGENIC			
SNP_102579_A_110823	NW_004517082.1	scaffold2022	110823	TT	CC	CC	INTERGENIC			
SNP_102580_A_116183	NW_004517082.1	scaffold2022	116183	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102581_A_116269	NW_004517082.1	scaffold2022	116269	AA	CC	CC	INTERGENIC			
SNP_102582_A_132097	NW_004517082.1	scaffold2022	132097	CC	AA	AA	INTERGENIC			
SNP_102583_A_132676	NW_004517082.1	scaffold2022	132676	CC	TT	TT	INTERGENIC			
SNP_102584_A_132693	NW_004517082.1	scaffold2022	132693	CC	TT	TT	INTERGENIC			
SNP_102585_A_136212	NW_004517082.1	scaffold2022	136212	GG	AA	AA	INTERGENIC			
SNP_102586_A_136215	NW_004517082.1	scaffold2022	136215	CC	TT	TT	INTERGENIC			
SNP_102587_A_136221	NW_004517082.1	scaffold2022	136221	CC	AA	AA	INTERGENIC			
SNP_102588_A_136299	NW_004517082.1	scaffold2022	136299	GG	AA	AA	INTERGENIC			
SNP_102589_A_136522	NW_004517082.1	scaffold2022	136522	TT	CC	CC	INTERGENIC			
SNP_102590_A_136540	NW_004517082.1	scaffold2022	136540	AA	GG	GG	INTERGENIC			
SNP_102591_A_136640	NW_004517082.1	scaffold2022	136640	AA	GG	GG	INTERGENIC			
SNP_102592_A_136756	NW_004517082.1	scaffold2022	136756	CC	TT	TT	INTERGENIC			
SNP_102593_A_136765	NW_004517082.1	scaffold2022	136765	TT	GG	GG	INTERGENIC			
SNP_102594_A_136772	NW_004517082.1	scaffold2022	136772	TT	CC	CC	INTERGENIC			
SNP_102595_A_136798	NW_004517082.1	scaffold2022	136798	CC	TT	TT	INTERGENIC			
SNP_102596_A_139032	NW_004517082.1	scaffold2022	139032	TT	CC	CC	INTERGENIC			
SNP_102597_A_139045	NW_004517082.1	scaffold2022	139045	CC	TT	TT	INTERGENIC			
SNP_102598_A_139052	NW_004517082.1	scaffold2022	139052	GG	AA	AA	INTERGENIC			
SNP_102599_A_139059	NW_004517082.1	scaffold2022	139059	AA	GG	GG	INTERGENIC			
SNP_102600_A_155545	NW_004517082.1	scaffold2022	155545	AA	CC	CC	NON_SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517	
SNP_102601_A_155561	NW_004517082.1	scaffold2022	155561	CC	TT	AA	SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517	
SNP_102602_A_155636	NW_004517082.1	scaffold2022	155636	TT	AA	AA	INTRON	101489517	uncharacterized LOC101489517	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102603_A_155654	NW_004517082.1	scaffold2022	155654	GG	AA	AA	INTRON	101489517	uncharacterized LOC101489517
SNP_102604_A_155731	NW_004517082.1	scaffold2022	155731	AA	CC	CC	NON_SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517
SNP_102605_A_155873	NW_004517082.1	scaffold2022	155873	TT	CC	CC	NON_SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517
SNP_102606_A_156053	NW_004517082.1	scaffold2022	156053	GG	AA	AA	NON_SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517
SNP_102607_A_156061	NW_004517082.1	scaffold2022	156061	CC	TT	TT	SYNONYMOUS_CODING	101489517	uncharacterized LOC101489517
SNP_102608_A_158923	NW_004517082.1	scaffold2022	158923	AA	TT	TT	URR	101489517	uncharacterized LOC101489517
SNP_102609_A_158928	NW_004517082.1	scaffold2022	158928	TT	GG	GG	URR	101489517	uncharacterized LOC101489517
SNP_102610_A_158982	NW_004517082.1	scaffold2022	158982	CC	TT	TT	URR	101489517	uncharacterized LOC101489517
SNP_102611_A_769	NW_004517084.1	scaffold2024	769	TT	CC	CC	INTERGENIC		
SNP_102612_A_1623	NW_004517084.1	scaffold2024	1623	GG	AA	AA	INTERGENIC		
SNP_102613_A_1839	NW_004517084.1	scaffold2024	1839	TT	CC	CC	INTERGENIC		
SNP_102615_A_1987	NW_004517084.1	scaffold2024	1987	TT	CC	CC	INTERGENIC		
SNP_102616_A_2218	NW_004517084.1	scaffold2024	2218	GG	TT	TT	INTERGENIC		
SNP_102617_A_2246	NW_004517084.1	scaffold2024	2246	TT	GG	GG	INTERGENIC		
SNP_102618_A_2285	NW_004517084.1	scaffold2024	2285	AA	TT	TT	INTERGENIC		
SNP_102619_A_2301	NW_004517084.1	scaffold2024	2301	TT	CC	CC	INTERGENIC		
SNP_102620_A_4000	NW_004517084.1	scaffold2024	4000	CC	TT	TT	INTERGENIC		
SNP_102621_A_4213	NW_004517084.1	scaffold2024	4213	TT	GG	GG	INTERGENIC		
SNP_102622_A_4815	NW_004517084.1	scaffold2024	4815	CC	GG	GG	INTERGENIC		
SNP_102623_A_1889	NW_004517086.1	scaffold2026	1889	AA	GG	GG	INTERGENIC		
SNP_102624_A_4466	NW_004517086.1	scaffold2026	4466	TT	CC	CC	INTERGENIC		
SNP_102625_A_4485	NW_004517086.1	scaffold2026	4485	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102626_A_4491	NW_004517086.1	scaffold2026	4491	GG	AA	AA	INTERGENIC			
SNP_102627_A_4783	NW_004517086.1	scaffold2026	4783	GG	AA	AA	INTERGENIC			
SNP_102628_A_5188	NW_004517086.1	scaffold2026	5188	AA	CC	CC	INTERGENIC			
SNP_102629_A_5192	NW_004517086.1	scaffold2026	5192	AA	GG	GG	INTERGENIC			
SNP_102630_A_5220	NW_004517086.1	scaffold2026	5220	CC	TT	TT	INTERGENIC			
SNP_102631_A_711	NW_004517087.1	scaffold2027	711	TT	AA	AA	INTERGENIC			
SNP_102633_A_2854	NW_004517087.1	scaffold2027	2854	AA	TT	TT	INTERGENIC			
SNP_102634_A_3025	NW_004517087.1	scaffold2027	3025	GG	AA	AA	INTERGENIC			
SNP_102635_A_49733	NW_004517087.1	scaffold2027	49733	AA	GG	GG	INTERGENIC			
SNP_102636_A_52230	NW_004517087.1	scaffold2027	52230	CC	TT	TT	INTERGENIC			
SNP_102637_A_52647	NW_004517087.1	scaffold2027	52647	CC	AA	AA	INTERGENIC			
SNP_102638_A_54597	NW_004517087.1	scaffold2027	54597	CC	GG	GG	INTERGENIC			
SNP_102639_A_55625	NW_004517087.1	scaffold2027	55625	AA	GG	GG	INTERGENIC			
SNP_102640_A_56181	NW_004517087.1	scaffold2027	56181	AA	GG	GG	INTERGENIC			
SNP_102641_A_56276	NW_004517087.1	scaffold2027	56276	TT	AA	AA	INTERGENIC			
SNP_102642_A_56301	NW_004517087.1	scaffold2027	56301	AA	TT	TT	INTERGENIC			
SNP_102643_A_56310	NW_004517087.1	scaffold2027	56310	CC	TT	TT	INTERGENIC			
SNP_102644_A_56312	NW_004517087.1	scaffold2027	56312	TT	GG	GG	INTERGENIC			
SNP_102645_A_119528	NW_004517087.1	scaffold2027	119528	TT	GG	GG	INTERGENIC			
SNP_102646_A_119641	NW_004517087.1	scaffold2027	119641	AA	TT	TT	INTERGENIC			
SNP_102647_A_119721	NW_004517087.1	scaffold2027	119721	GG	AA	AA	INTERGENIC			
SNP_102648_A_160045	NW_004517087.1	scaffold2027	160045	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102649_A_160048	NW_004517087.1	scaffold2027	160048	TT	CC	CC	INTERGENIC			
SNP_102650_A_160057	NW_004517087.1	scaffold2027	160057	AA	TT	TT	INTERGENIC			
SNP_102651_A_160116	NW_004517087.1	scaffold2027	160116	AA	GG	GG	INTERGENIC			
SNP_102652_A_160654	NW_004517087.1	scaffold2027	160654	AA	GG	GG	INTERGENIC			
SNP_102653_A_160734	NW_004517087.1	scaffold2027	160734	TT	CC	CC	INTERGENIC			
SNP_102655_A_161	NW_004517090.1	scaffold2030	161	AA	GG	GG	INTERGENIC			
SNP_102656_A_468	NW_004517090.1	scaffold2030	468	AA	GG	GG	INTERGENIC			
SNP_102657_A_470	NW_004517090.1	scaffold2030	470	GG	TT	TT	INTERGENIC			
SNP_102658_A_3425	NW_004517090.1	scaffold2030	3425	TT	CC	CC	INTERGENIC			
SNP_102659_A_3572	NW_004517090.1	scaffold2030	3572	AA	TT	TT	INTERGENIC			
SNP_102661_A_4574	NW_004517090.1	scaffold2030	4574	GG	CC	CC	INTERGENIC			
SNP_102663_A_4609	NW_004517090.1	scaffold2030	4609	AA	GG	GG	INTERGENIC			
SNP_102664_A_5024	NW_004517090.1	scaffold2030	5024	AA	GG	GG	INTERGENIC			
SNP_102665_A_15500	NW_004517092.1	scaffold2033	15500	CC	AA	AA	INTERGENIC			
SNP_102666_A_15880	NW_004517092.1	scaffold2033	15880	GG	AA	AA	INTERGENIC			
SNP_102667_A_66311	NW_004517092.1	scaffold2033	66311	GG	AA	AA	INTERGENIC			
SNP_102668_A_66315	NW_004517092.1	scaffold2033	66315	AA	GG	GG	INTERGENIC			
SNP_102669_A_66321	NW_004517092.1	scaffold2033	66321	GG	AA	AA	INTERGENIC			
SNP_102670_A_66352	NW_004517092.1	scaffold2033	66352	AA	GG	GG	INTERGENIC			
SNP_102671_A_66380	NW_004517092.1	scaffold2033	66380	CC	TT	TT	INTERGENIC			
SNP_102672_A_66429	NW_004517092.1	scaffold2033	66429	AA	TT	TT	INTERGENIC			
SNP_102673_A_66446	NW_004517092.1	scaffold2033	66446	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102674_A_66457	NW_004517092.1	scaffold2033	66457	TT	AA	AA	INTERGENIC		
SNP_102675_A_66629	NW_004517092.1	scaffold2033	66629	AA	CC	CC	INTERGENIC		
SNP_102676_A_67741	NW_004517092.1	scaffold2033	67741	TT	GG	GG	INTERGENIC		
SNP_102677_A_78585	NW_004517092.1	scaffold2033	78585	AA	GG	GG	INTERGENIC		
SNP_102678_A_89482	NW_004517092.1	scaffold2033	89482	AA	CC	CC	INTERGENIC		
SNP_102680_A_108476	NW_004517092.1	scaffold2033	108476	GG	AA	AA	INTERGENIC		
SNP_102681_A_165495	NW_004517092.1	scaffold2033	165495	GG	TT	TT	INTERGENIC		
SNP_102682_A_181353	NW_004517092.1	scaffold2033	181353	TT	CC	CC	NON_SYNONYMOUS_CODING	101495114	GDSL esterase/lipase At5g45910-like
SNP_102683_A_182501	NW_004517092.1	scaffold2033	182501	TT	CC	CC	SYNONYMOUS_CODING	101495114	GDSL esterase/lipase At5g45910-like
SNP_102684_A_183740	NW_004517092.1	scaffold2033	183740	GG	AA	AA	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102686_A_183898	NW_004517092.1	scaffold2033	183898	CC	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102687_A_183963	NW_004517092.1	scaffold2033	183963	GG	TT	TT	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102688_A_184007	NW_004517092.1	scaffold2033	184007	GG	AA	AA	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102689_A_184160	NW_004517092.1	scaffold2033	184160	AA	TT	TT	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102690_A_184231	NW_004517092.1	scaffold2033	184231	AA	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102691_A_184279	NW_004517092.1	scaffold2033	184279	AA	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102692_A_184280	NW_004517092.1	scaffold2033	184280	AA	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102693_A_184304	NW_004517092.1	scaffold2033	184304	CC	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102694_A_184338	NW_004517092.1	scaffold2033	184338	TT	GG	GG	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102695_A_184424	NW_004517092.1	scaffold2033	184424	TT	AA	AA	URR	101495114	GDSL esterase/lipase At5g45910-like
SNP_102697_A_8947	NW_004517095.1	scaffold2036	8947	GG	AA	AA	INTERGENIC		
SNP_102698_A_8993	NW_004517095.1	scaffold2036	8993	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102699_A_9168	NW_004517095.1	scaffold2036	9168	CC	AA	AA	INTERGENIC			
SNP_102700_A_9177	NW_004517095.1	scaffold2036	9177	AA	GG	GG	INTERGENIC			
SNP_102701_A_14749	NW_004517095.1	scaffold2036	14749	CC	TT	TT	INTERGENIC			
SNP_102702_A_14791	NW_004517095.1	scaffold2036	14791	CC	TT	TT	INTERGENIC			
SNP_102703_A_14826	NW_004517095.1	scaffold2036	14826	GG	AA	AA	INTERGENIC			
SNP_102704_A_15087	NW_004517095.1	scaffold2036	15087	CC	GG	GG	INTERGENIC			
SNP_102705_A_15095	NW_004517095.1	scaffold2036	15095	CC	TT	TT	INTERGENIC			
SNP_102706_A_37883	NW_004517095.1	scaffold2036	37883	AA	GG	GG	INTERGENIC			
SNP_102707_A_43511	NW_004517095.1	scaffold2036	43511	AA	CC	CC	INTERGENIC			
SNP_102708_A_43538	NW_004517095.1	scaffold2036	43538	GG	AA	AA	INTERGENIC			
SNP_102709_A_43929	NW_004517095.1	scaffold2036	43929	CC	TT	TT	INTERGENIC			
SNP_102710_A_48006	NW_004517095.1	scaffold2036	48006	AA	GG	GG	INTERGENIC			
SNP_102711_A_48018	NW_004517095.1	scaffold2036	48018	AA	GG	GG	INTERGENIC			
SNP_102712_A_48047	NW_004517095.1	scaffold2036	48047	TT	CC	CC	INTERGENIC			
SNP_102713_A_48057	NW_004517095.1	scaffold2036	48057	AA	GG	GG	INTERGENIC			
SNP_102714_A_48069	NW_004517095.1	scaffold2036	48069	GG	AA	AA	INTERGENIC			
SNP_102715_A_48090	NW_004517095.1	scaffold2036	48090	GG	AA	AA	INTERGENIC			
SNP_102716_A_48096	NW_004517095.1	scaffold2036	48096	TT	CC	CC	INTERGENIC			
SNP_102717_A_48108	NW_004517095.1	scaffold2036	48108	GG	AA	AA	INTERGENIC			
SNP_102718_A_48113	NW_004517095.1	scaffold2036	48113	GG	AA	AA	INTERGENIC			
SNP_102719_A_48117	NW_004517095.1	scaffold2036	48117	GG	AA	AA	INTERGENIC			
SNP_102720_A_51536	NW_004517095.1	scaffold2036	51536	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102721_A_51542	NW_004517095.1	scaffold2036	51542	GG	AA	AA	INTERGENIC			
SNP_102722_A_51555	NW_004517095.1	scaffold2036	51555	TT	CC	CC	INTERGENIC			
SNP_102723_A_57296	NW_004517095.1	scaffold2036	57296	TT	CC	CC	INTERGENIC			
SNP_102724_A_57604	NW_004517095.1	scaffold2036	57604	TT	AA	GG	INTERGENIC			
SNP_102725_A_57639	NW_004517095.1	scaffold2036	57639	AA	GG	GG	INTERGENIC			
SNP_102726_A_73197	NW_004517095.1	scaffold2036	73197	AA	GG	GG	INTERGENIC			
SNP_102727_A_73353	NW_004517095.1	scaffold2036	73353	TT	CC	CC	INTERGENIC			
SNP_102728_A_73380	NW_004517095.1	scaffold2036	73380	TT	AA	AA	INTERGENIC			
SNP_102729_A_73449	NW_004517095.1	scaffold2036	73449	CC	AA	AA	INTERGENIC			
SNP_102730_A_73453	NW_004517095.1	scaffold2036	73453	TT	GG	GG	INTERGENIC			
SNP_102731_A_73476	NW_004517095.1	scaffold2036	73476	TT	CC	CC	INTERGENIC			
SNP_102732_A_73486	NW_004517095.1	scaffold2036	73486	GG	AA	AA	INTERGENIC			
SNP_102733_A_73501	NW_004517095.1	scaffold2036	73501	AA	CC	CC	INTERGENIC			
SNP_102734_A_73502	NW_004517095.1	scaffold2036	73502	AA	CC	CC	INTERGENIC			
SNP_102735_A_73504	NW_004517095.1	scaffold2036	73504	CC	TT	TT	INTERGENIC			
SNP_102736_A_73561	NW_004517095.1	scaffold2036	73561	AA	CC	CC	INTERGENIC			
SNP_102739_A_157689	NW_004517095.1	scaffold2036	157689	CC	TT	TT	INTERGENIC			
SNP_102740_A_157971	NW_004517095.1	scaffold2036	157971	CC	TT	TT	INTERGENIC			
SNP_102741_A_158079	NW_004517095.1	scaffold2036	158079	AA	CC	CC	INTERGENIC			
SNP_102742_A_158112	NW_004517095.1	scaffold2036	158112	TT	CC	CC	INTERGENIC			
SNP_102743_A_182687	NW_004517095.1	scaffold2036	182687	AA	GG	GG	INTERGENIC			
SNP_102744_A_215475	NW_004517095.1	scaffold2036	215475	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102746_A_8288	NW_004517096.1	scaffold2037	8288	TT	CC	CC	INTERGENIC		
SNP_102747_A_20326	NW_004517096.1	scaffold2037	20326	CC	AA	AA	INTERGENIC		
SNP_102748_A_43497	NW_004517096.1	scaffold2037	43497	GG	TT	TT	INTERGENIC		
SNP_102749_A_43744	NW_004517096.1	scaffold2037	43744	CC	TT	TT	INTERGENIC		
SNP_102752_A_20670	NW_004517097.1	scaffold2039	20670	AA	GG	GG	INTERGENIC		
SNP_102753_A_26789	NW_004517097.1	scaffold2039	26789	AA	GG	GG	INTERGENIC		
SNP_102754_A_32328	NW_004517097.1	scaffold2039	32328	AA	TT	TT	INTERGENIC		
SNP_102758_A_202371	NW_004517097.1	scaffold2039	202371	AA	GG	GG	INTRON	101500522	glycerol-3-phosphate acyltransferase 1-like
SNP_102759_A_14515	NW_004517098.1	scaffold2040	14515	AA	GG	GG	INTERGENIC		
SNP_102760_A_14538	NW_004517098.1	scaffold2040	14538	AA	GG	GG	INTERGENIC		
SNP_102761_A_14906	NW_004517098.1	scaffold2040	14906	AA	GG	GG	INTERGENIC		
SNP_102762_A_19799	NW_004517098.1	scaffold2040	19799	CC	TT	TT	INTERGENIC		
SNP_102763_A_20124	NW_004517098.1	scaffold2040	20124	TT	GG	GG	INTERGENIC		
SNP_102764_A_20391	NW_004517098.1	scaffold2040	20391	CC	TT	TT	INTERGENIC		
SNP_102765_A_20587	NW_004517098.1	scaffold2040	20587	GG	AA	AA	INTERGENIC		
SNP_102766_A_20819	NW_004517098.1	scaffold2040	20819	CC	TT	TT	INTERGENIC		
SNP_102767_A_35197	NW_004517098.1	scaffold2040	35197	AA	GG	GG	INTERGENIC		
SNP_102768_A_35230	NW_004517098.1	scaffold2040	35230	TT	CC	CC	INTERGENIC		
SNP_102769_A_35255	NW_004517098.1	scaffold2040	35255	GG	TT	TT	INTERGENIC		
SNP_102770_A_60751	NW_004517098.1	scaffold2040	60751	GG	AA	AA	INTERGENIC		
SNP_102771_A_69734	NW_004517098.1	scaffold2040	69734	GG	TT	TT	INTERGENIC		
SNP_102772_A_69764	NW_004517098.1	scaffold2040	69764	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102773_A_71437	NW_004517098.1	scaffold2040	71437	AA	GG	GG	INTERGENIC			
SNP_102774_A_71481	NW_004517098.1	scaffold2040	71481	AA	GG	GG	INTERGENIC			
SNP_102775_A_82962	NW_004517098.1	scaffold2040	82962	CC	GG	GG	INTERGENIC			
SNP_102777_A_115498	NW_004517098.1	scaffold2040	115498	TT	AA	AA	INTERGENIC			
SNP_102778_A_115916	NW_004517098.1	scaffold2040	115916	TT	CC	CC	INTERGENIC			
SNP_102779_A_115945	NW_004517098.1	scaffold2040	115945	TT	CC	CC	INTERGENIC			
SNP_102780_A_115950	NW_004517098.1	scaffold2040	115950	CC	TT	TT	INTERGENIC			
SNP_102781_A_127225	NW_004517098.1	scaffold2040	127225	AA	GG	GG	INTERGENIC			
SNP_102782_A_127949	NW_004517098.1	scaffold2040	127949	GG	AA	AA	INTERGENIC			
SNP_102783_A_138283	NW_004517098.1	scaffold2040	138283	GG	AA	AA	INTERGENIC			
SNP_102784_A_139085	NW_004517098.1	scaffold2040	139085	CC	GG	GG	INTERGENIC			
SNP_102785_A_139776	NW_004517098.1	scaffold2040	139776	AA	GG	GG	INTERGENIC			
SNP_102786_A_139927	NW_004517098.1	scaffold2040	139927	CC	TT	TT	INTERGENIC			
SNP_102787_A_139945	NW_004517098.1	scaffold2040	139945	TT	GG	GG	INTERGENIC			
SNP_102788_A_140004	NW_004517098.1	scaffold2040	140004	AA	GG	GG	INTERGENIC			
SNP_102789_A_140027	NW_004517098.1	scaffold2040	140027	TT	CC	CC	INTERGENIC			
SNP_102791_A_158157	NW_004517098.1	scaffold2040	158157	TT	CC	CC	INTERGENIC			
SNP_102793_A_159630	NW_004517098.1	scaffold2040	159630	AA	GG	GG	INTERGENIC			
SNP_102794_A_163384	NW_004517098.1	scaffold2040	163384	AA	GG	GG	INTERGENIC			
SNP_102795_A_163448	NW_004517098.1	scaffold2040	163448	GG	AA	AA	INTERGENIC			
SNP_102796_A_163496	NW_004517098.1	scaffold2040	163496	CC	TT	TT	INTERGENIC			
SNP_102797_A_163824	NW_004517098.1	scaffold2040	163824	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102798_A_172714	NW_004517098.1	scaffold2040	172714	CC	GG	GG	INTERGENIC		
SNP_102799_A_174316	NW_004517098.1	scaffold2040	174316	TT	GG	GG	INTERGENIC		
SNP_102800_A_181076	NW_004517098.1	scaffold2040	181076	CC	AA	AA	URR	101502234	protein RESTRICTED TEV MOVEMENT 2-like
SNP_102801_A_181087	NW_004517098.1	scaffold2040	181087	AA	TT	TT	URR	101502234	protein RESTRICTED TEV MOVEMENT 2-like
SNP_102802_A_181135	NW_004517098.1	scaffold2040	181135	AA	GG	GG	URR	101502234	protein RESTRICTED TEV MOVEMENT 2-like
SNP_102803_A_200649	NW_004517098.1	scaffold2040	200649	AA	GG	GG	INTERGENIC		
SNP_102804_A_200951	NW_004517098.1	scaffold2040	200951	TT	CC	CC	INTERGENIC		
SNP_102805_A_200977	NW_004517098.1	scaffold2040	200977	TT	AA	AA	INTERGENIC		
SNP_102806_A_212670	NW_004517098.1	scaffold2040	212670	CC	GG	GG	INTERGENIC		
SNP_102807_A_243953	NW_004517098.1	scaffold2040	243953	AA	TT	TT	INTERGENIC		
SNP_102808_A_243971	NW_004517098.1	scaffold2040	243971	CC	GG	GG	INTERGENIC		
SNP_102809_A_244057	NW_004517098.1	scaffold2040	244057	TT	CC	CC	INTERGENIC		
SNP_102810_A_413	NW_004517104.1	scaffold2050	413	GG	CC	CC	INTERGENIC		
SNP_102811_A_481	NW_004517104.1	scaffold2050	481	TT	CC	CC	INTERGENIC		
SNP_102812_A_6040	NW_004517105.1	scaffold2051	6040	CC	TT	TT	INTERGENIC		
SNP_102813_A_6498	NW_004517105.1	scaffold2051	6498	CC	AA	AA	INTERGENIC		
SNP_102815_A_8291	NW_004517105.1	scaffold2051	8291	GG	AA	AA	INTERGENIC		
SNP_102816_A_9558	NW_004517105.1	scaffold2051	9558	CC	TT	TT	INTERGENIC		
SNP_102817_A_9584	NW_004517105.1	scaffold2051	9584	TT	AA	AA	INTERGENIC		
SNP_102818_A_9757	NW_004517105.1	scaffold2051	9757	CC	TT	TT	INTERGENIC		
SNP_102819_A_9906	NW_004517105.1	scaffold2051	9906	GG	TT	TT	INTERGENIC		
SNP_102821_A_11946	NW_004517105.1	scaffold2051	11946	TT	GG	GG	NON_SYNONYMOUS_CODING	101505113	sugar transport protein 10-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102822_A_12017	NW_004517105.1	scaffold2051	12017	AA	CC	CC	SYNONYMOUS_CODING	101505113	sugar transport protein 10-like
SNP_102823_A_12041	NW_004517105.1	scaffold2051	12041	TT	CC	CC	SYNONYMOUS_CODING	101505113	sugar transport protein 10-like
SNP_102824_A_12115	NW_004517105.1	scaffold2051	12115	AA	CC	CC	STOP_LOST	101505113	sugar transport protein 10-like
SNP_102825_A_12244	NW_004517105.1	scaffold2051	12244	GG	AA	AA	NON_SYNONYMOUS_CODING	101505113	sugar transport protein 10-like
SNP_102826_A_12420	NW_004517105.1	scaffold2051	12420	TT	CC	CC	NON_SYNONYMOUS_CODING	101505113	sugar transport protein 10-like
SNP_102827_A_24811	NW_004517105.1	scaffold2051	24811	AA	GG	GG	INTERGENIC		
SNP_102828_A_24843	NW_004517105.1	scaffold2051	24843	GG	TT	TT	INTERGENIC		
SNP_102829_A_32531	NW_004517105.1	scaffold2051	32531	AA	TT	TT	INTERGENIC		
SNP_102830_A_40629	NW_004517105.1	scaffold2051	40629	CC	GG	GG	INTERGENIC		
SNP_102831_A_40656	NW_004517105.1	scaffold2051	40656	TT	CC	CC	INTERGENIC		
SNP_102832_A_40679	NW_004517105.1	scaffold2051	40679	GG	AA	AA	INTERGENIC		
SNP_102833_A_40759	NW_004517105.1	scaffold2051	40759	TT	CC	CC	INTERGENIC		
SNP_102834_A_40787	NW_004517105.1	scaffold2051	40787	AA	GG	GG	INTERGENIC		
SNP_102835_A_40789	NW_004517105.1	scaffold2051	40789	TT	CC	CC	INTERGENIC		
SNP_102836_A_40800	NW_004517105.1	scaffold2051	40800	AA	GG	GG	INTERGENIC		
SNP_102837_A_93408	NW_004517105.1	scaffold2051	93408	TT	AA	AA	INTERGENIC		
SNP_102838_A_93485	NW_004517105.1	scaffold2051	93485	TT	CC	CC	INTERGENIC		
SNP_102839_A_114393	NW_004517105.1	scaffold2051	114393	TT	AA	AA	INTERGENIC		
SNP_102840_A_141663	NW_004517105.1	scaffold2051	141663	CC	GG	GG	INTERGENIC		
SNP_102841_A_141711	NW_004517105.1	scaffold2051	141711	TT	CC	CC	INTERGENIC		
SNP_102842_A_141730	NW_004517105.1	scaffold2051	141730	CC	GG	GG	INTERGENIC		
SNP_102843_A_141984	NW_004517105.1	scaffold2051	141984	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102844_A_142076	NW_004517105.1	scaffold2051	142076	AA	GG	GG	INTERGENIC			
SNP_102845_A_142077	NW_004517105.1	scaffold2051	142077	TT	GG	GG	INTERGENIC			
SNP_102846_A_189050	NW_004517105.1	scaffold2051	189050	GG	AA	AA	INTERGENIC			
SNP_102847_A_189069	NW_004517105.1	scaffold2051	189069	CC	AA	AA	INTERGENIC			
SNP_102848_A_189080	NW_004517105.1	scaffold2051	189080	GG	AA	AA	INTERGENIC			
SNP_102849_A_191296	NW_004517105.1	scaffold2051	191296	GG	AA	AA	INTERGENIC			
SNP_102850_A_204797	NW_004517105.1	scaffold2051	204797	CC	GG	GG	INTERGENIC			
SNP_102851_A_170	NW_004517107.1	scaffold2054	170	TT	CC	CC	INTERGENIC			
SNP_102852_A_1939	NW_004517109.1	scaffold2056	1939	AA	TT	TT	INTERGENIC			
SNP_102853_A_3457	NW_004517109.1	scaffold2056	3457	GG	AA	AA	INTERGENIC			
SNP_102854_A_3472	NW_004517109.1	scaffold2056	3472	CC	TT	TT	INTERGENIC			
SNP_102855_A_3479	NW_004517109.1	scaffold2056	3479	TT	GG	GG	INTERGENIC			
SNP_102856_A_3492	NW_004517109.1	scaffold2056	3492	TT	GG	GG	INTERGENIC			
SNP_102857_A_3729	NW_004517109.1	scaffold2056	3729	AA	TT	TT	INTERGENIC			
SNP_102858_A_3730	NW_004517109.1	scaffold2056	3730	CC	TT	TT	INTERGENIC			
SNP_102859_A_3757	NW_004517109.1	scaffold2056	3757	TT	GG	GG	INTERGENIC			
SNP_102860_A_4154	NW_004517109.1	scaffold2056	4154	TT	GG	GG	INTERGENIC			
SNP_102861_A_782	NW_004517112.1	scaffold2063	782	CC	TT	TT	INTERGENIC			
SNP_102862_A_1321	NW_004517113.1	scaffold2064	1321	TT	CC	CC	INTERGENIC			
SNP_102863_A_1565	NW_004517113.1	scaffold2064	1565	GG	TT	TT	INTERGENIC			
SNP_102864_A_1620	NW_004517113.1	scaffold2064	1620	AA	TT	TT	INTERGENIC			
SNP_102865_A_7287	NW_004517113.1	scaffold2064	7287	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102866_A_7302	NW_004517113.1	scaffold2064	7302	AA	CC	CC	INTERGENIC			
SNP_102867_A_7303	NW_004517113.1	scaffold2064	7303	GG	AA	AA	INTERGENIC			
SNP_102868_A_7321	NW_004517113.1	scaffold2064	7321	TT	CC	CC	INTERGENIC			
SNP_102869_A_9146	NW_004517113.1	scaffold2064	9146	AA	GG	GG	INTERGENIC			
SNP_102870_A_9173	NW_004517113.1	scaffold2064	9173	GG	AA	AA	INTERGENIC			
SNP_102871_A_9178	NW_004517113.1	scaffold2064	9178	GG	TT	TT	INTERGENIC			
SNP_102872_A_2703	NW_004517115.1	scaffold2066	2703	TT	CC	CC	INTERGENIC			
SNP_102873_A_3236	NW_004517118.1	scaffold2072	3236	GG	AA	AA	INTERGENIC			
SNP_102874_A_3239	NW_004517118.1	scaffold2072	3239	AA	GG	GG	INTERGENIC			
SNP_102875_A_4777	NW_004517118.1	scaffold2072	4777	TT	AA	AA	INTERGENIC			
SNP_102876_A_5071	NW_004517118.1	scaffold2072	5071	AA	GG	GG	INTERGENIC			
SNP_102877_A_5303	NW_004517118.1	scaffold2072	5303	GG	AA	AA	INTERGENIC			
SNP_102878_A_6810	NW_004517118.1	scaffold2072	6810	GG	AA	AA	INTERGENIC			
SNP_102879_A_6985	NW_004517118.1	scaffold2072	6985	AA	GG	GG	INTERGENIC			
SNP_102880_A_10638	NW_004517118.1	scaffold2072	10638	TT	CC	CC	INTERGENIC			
SNP_102881_A_11522	NW_004517118.1	scaffold2072	11522	CC	TT	TT	INTERGENIC			
SNP_102882_A_11531	NW_004517118.1	scaffold2072	11531	TT	CC	CC	INTERGENIC			
SNP_102883_A_11679	NW_004517118.1	scaffold2072	11679	AA	CC	CC	INTERGENIC			
SNP_102884_A_11840	NW_004517118.1	scaffold2072	11840	CC	TT	TT	INTERGENIC			
SNP_102885_A_16203	NW_004517118.1	scaffold2072	16203	CC	GG	GG	INTERGENIC			
SNP_102886_A_36504	NW_004517118.1	scaffold2072	36504	CC	AA	AA	INTERGENIC			
SNP_102887_A_38202	NW_004517118.1	scaffold2072	38202	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102888_A_38241	NW_004517118.1	scaffold2072	38241	CC	GG	GG	INTERGENIC			
SNP_102889_A_38262	NW_004517118.1	scaffold2072	38262	GG	TT	TT	INTERGENIC			
SNP_102890_A_38288	NW_004517118.1	scaffold2072	38288	TT	GG	GG	INTERGENIC			
SNP_102891_A_38375	NW_004517118.1	scaffold2072	38375	TT	CC	CC	INTERGENIC			
SNP_102892_A_39039	NW_004517118.1	scaffold2072	39039	TT	AA	AA	INTERGENIC			
SNP_102893_A_39139	NW_004517118.1	scaffold2072	39139	AA	GG	GG	INTERGENIC			
SNP_102894_A_39337	NW_004517118.1	scaffold2072	39337	AA	GG	GG	INTERGENIC			
SNP_102895_A_16990	NW_004517119.1	scaffold2074	16990	GG	TT	TT	INTERGENIC			
SNP_102896_A_16997	NW_004517119.1	scaffold2074	16997	AA	TT	TT	INTERGENIC			
SNP_102897_A_17276	NW_004517119.1	scaffold2074	17276	GG	AA	AA	INTERGENIC			
SNP_102898_A_17282	NW_004517119.1	scaffold2074	17282	AA	GG	GG	INTERGENIC			
SNP_102899_A_17402	NW_004517119.1	scaffold2074	17402	CC	TT	TT	INTERGENIC			
SNP_102900_A_3774	NW_004517120.1	scaffold2075	3774	TT	GG	GG	INTERGENIC			
SNP_102901_A_3832	NW_004517120.1	scaffold2075	3832	AA	GG	GG	INTERGENIC			
SNP_102902_A_4183	NW_004517120.1	scaffold2075	4183	GG	TT	TT	INTERGENIC			
SNP_102903_A_913	NW_004517121.1	scaffold2076	913	CC	TT	TT	INTERGENIC			
SNP_102904_A_928	NW_004517121.1	scaffold2076	928	CC	TT	TT	INTERGENIC			
SNP_102905_A_1012	NW_004517121.1	scaffold2076	1012	AA	GG	GG	INTERGENIC			
SNP_102906_A_1287	NW_004517121.1	scaffold2076	1287	CC	AA	AA	INTERGENIC			
SNP_102907_A_1482	NW_004517121.1	scaffold2076	1482	AA	GG	GG	INTERGENIC			
SNP_102908_A_1617	NW_004517121.1	scaffold2076	1617	TT	AA	AA	INTERGENIC			
SNP_102909_A_11266	NW_004517121.1	scaffold2076	11266	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102910_A_11288	NW_004517121.1	scaffold2076	11288	GG	TT	TT	INTERGENIC			
SNP_102911_A_11626	NW_004517121.1	scaffold2076	11626	TT	GG	GG	INTERGENIC			
SNP_102912_A_12219	NW_004517121.1	scaffold2076	12219	TT	AA	AA	INTERGENIC			
SNP_102913_A_20973	NW_004517121.1	scaffold2076	20973	AA	GG	GG	INTERGENIC			
SNP_102914_A_20987	NW_004517121.1	scaffold2076	20987	AA	GG	GG	INTERGENIC			
SNP_102915_A_21113	NW_004517121.1	scaffold2076	21113	TT	CC	CC	INTERGENIC			
SNP_102916_A_21251	NW_004517121.1	scaffold2076	21251	TT	CC	CC	INTERGENIC			
SNP_102917_A_21428	NW_004517121.1	scaffold2076	21428	CC	AA	AA	INTERGENIC			
SNP_102918_A_21436	NW_004517121.1	scaffold2076	21436	CC	TT	TT	INTERGENIC			
SNP_102919_A_21465	NW_004517121.1	scaffold2076	21465	GG	TT	TT	INTERGENIC			
SNP_102920_A_21467	NW_004517121.1	scaffold2076	21467	GG	TT	TT	INTERGENIC			
SNP_102921_A_21766	NW_004517121.1	scaffold2076	21766	AA	TT	TT	INTERGENIC			
SNP_102922_A_21782	NW_004517121.1	scaffold2076	21782	CC	TT	TT	INTERGENIC			
SNP_102923_A_2903	NW_004517124.1	scaffold2081	2903	AA	TT	TT	INTERGENIC			
SNP_102924_A_2923	NW_004517124.1	scaffold2081	2923	TT	AA	AA	INTERGENIC			
SNP_102925_A_7804	NW_004517125.1	scaffold2082	7804	AA	TT	TT	INTERGENIC			
SNP_102926_A_27475	NW_004517125.1	scaffold2082	27475	TT	CC	CC	INTERGENIC			
SNP_102927_A_27568	NW_004517125.1	scaffold2082	27568	AA	CC	CC	INTERGENIC			
SNP_102928_A_29573	NW_004517125.1	scaffold2082	29573	AA	TT	TT	INTERGENIC			
SNP_102929_A_29622	NW_004517125.1	scaffold2082	29622	AA	TT	TT	INTERGENIC			
SNP_102930_A_29684	NW_004517125.1	scaffold2082	29684	GG	AA	AA	INTERGENIC			
SNP_102931_A_44765	NW_004517125.1	scaffold2082	44765	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102932_A_44766	NW_004517125.1	scaffold2082	44766	AA	GG	GG	INTERGENIC			
SNP_102933_A_44932	NW_004517125.1	scaffold2082	44932	GG	AA	AA	INTERGENIC			
SNP_102934_A_56456	NW_004517125.1	scaffold2082	56456	GG	AA	AA	INTERGENIC			
SNP_102935_A_58367	NW_004517125.1	scaffold2082	58367	TT	CC	CC	INTERGENIC			
SNP_102936_A_58373	NW_004517125.1	scaffold2082	58373	TT	CC	CC	INTERGENIC			
SNP_102937_A_58396	NW_004517125.1	scaffold2082	58396	GG	AA	AA	INTERGENIC			
SNP_102938_A_58402	NW_004517125.1	scaffold2082	58402	TT	CC	CC	INTERGENIC			
SNP_102939_A_58410	NW_004517125.1	scaffold2082	58410	CC	TT	TT	INTERGENIC			
SNP_102941_A_4540	NW_004517126.1	scaffold2083	4540	AA	TT	TT	INTERGENIC			
SNP_102942_A_4564	NW_004517126.1	scaffold2083	4564	AA	GG	GG	INTERGENIC			
SNP_102943_A_4643	NW_004517126.1	scaffold2083	4643	CC	TT	TT	INTERGENIC			
SNP_102944_A_4731	NW_004517126.1	scaffold2083	4731	AA	TT	TT	INTERGENIC			
SNP_102945_A_4834	NW_004517126.1	scaffold2083	4834	CC	TT	TT	INTERGENIC			
SNP_102946_A_5238	NW_004517126.1	scaffold2083	5238	TT	CC	CC	INTERGENIC			
SNP_102947_A_1514	NW_004517129.1	scaffold2087	1514	AA	GG	GG	INTERGENIC			
SNP_102948_A_1739	NW_004517129.1	scaffold2087	1739	AA	GG	GG	INTERGENIC			
SNP_102949_A_3317	NW_004517129.1	scaffold2087	3317	TT	CC	CC	INTERGENIC			
SNP_102950_A_3448	NW_004517129.1	scaffold2087	3448	GG	AA	AA	INTERGENIC			
SNP_102951_A_3523	NW_004517129.1	scaffold2087	3523	GG	AA	AA	INTERGENIC			
SNP_102952_A_3560	NW_004517129.1	scaffold2087	3560	AA	GG	GG	INTERGENIC			
SNP_102953_A_3585	NW_004517129.1	scaffold2087	3585	AA	GG	GG	INTERGENIC			
SNP_102954_A_3652	NW_004517129.1	scaffold2087	3652	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102955_A_3719	NW_004517129.1	scaffold2087	3719	CC	AA	AA	INTERGENIC			
SNP_102956_A_3768	NW_004517129.1	scaffold2087	3768	TT	CC	CC	INTERGENIC			
SNP_102957_A_5635	NW_004517129.1	scaffold2087	5635	TT	AA	AA	INTERGENIC			
SNP_102958_A_9613	NW_004517129.1	scaffold2087	9613	AA	CC	CC	INTERGENIC			
SNP_102959_A_9986	NW_004517129.1	scaffold2087	9986	TT	CC	CC	INTERGENIC			
SNP_102960_A_444	NW_004517131.1	scaffold2089	444	AA	CC	CC	INTERGENIC			
SNP_102961_A_526	NW_004517131.1	scaffold2089	526	TT	GG	GG	INTERGENIC			
SNP_102962_A_691	NW_004517131.1	scaffold2089	691	AA	GG	GG	INTERGENIC			
SNP_102963_A_736	NW_004517131.1	scaffold2089	736	AA	GG	GG	INTERGENIC			
SNP_102964_A_756	NW_004517131.1	scaffold2089	756	AA	TT	TT	INTERGENIC			
SNP_102965_A_827	NW_004517131.1	scaffold2089	827	GG	AA	AA	INTERGENIC			
SNP_102966_A_899	NW_004517131.1	scaffold2089	899	AA	GG	GG	INTERGENIC			
SNP_102967_A_920	NW_004517131.1	scaffold2089	920	AA	TT	TT	INTERGENIC			
SNP_102968_A_947	NW_004517131.1	scaffold2089	947	GG	TT	TT	INTERGENIC			
SNP_102969_A_1077	NW_004517131.1	scaffold2089	1077	TT	GG	GG	INTERGENIC			
SNP_102970_A_1099	NW_004517131.1	scaffold2089	1099	TT	GG	GG	INTERGENIC			
SNP_102971_A_5545	NW_004517131.1	scaffold2089	5545	TT	CC	CC	INTERGENIC			
SNP_102972_A_5547	NW_004517131.1	scaffold2089	5547	AA	TT	TT	INTERGENIC			
SNP_102973_A_7213	NW_004517134.1	scaffold2095	7213	GG	AA	AA	INTRON	101507075	Unknown function	
SNP_102974_A_7214	NW_004517134.1	scaffold2095	7214	TT	AA	AA	INTRON	101507075	Unknown function	
SNP_102975_A_7219	NW_004517134.1	scaffold2095	7219	AA	TT	TT	INTRON	101507075	Unknown function	
SNP_102976_A_7272	NW_004517134.1	scaffold2095	7272	TT	CC	CC	INTRON	101507075	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_102977_A_7334	NW_004517134.1	scaffold2095	7334	TT	CC	CC	INTRON	101507075	Unknown function
SNP_102978_A_7439	NW_004517134.1	scaffold2095	7439	TT	CC	CC	INTRON	101507075	Unknown function
SNP_102979_A_7596	NW_004517134.1	scaffold2095	7596	AA	TT	TT	INTRON	101507075	Unknown function
SNP_102980_A_7917	NW_004517134.1	scaffold2095	7917	TT	GG	GG	INTRON	101507075	Unknown function
SNP_102981_A_7991	NW_004517134.1	scaffold2095	7991	GG	AA	AA	INTRON	101507075	Unknown function
SNP_102982_A_13554	NW_004517134.1	scaffold2095	13554	TT	AA	AA	INTERGENIC		
SNP_102983_A_24068	NW_004517134.1	scaffold2095	24068	TT	AA	AA	INTERGENIC		
SNP_102984_A_5025	NW_004517136.1	scaffold2097	5025	TT	CC	CC	INTERGENIC		
SNP_102985_A_6717	NW_004517136.1	scaffold2097	6717	TT	CC	CC	INTERGENIC		
SNP_102986_A_20611	NW_004517136.1	scaffold2097	20611	CC	TT	TT	INTERGENIC		
SNP_102987_A_29520	NW_004517136.1	scaffold2097	29520	GG	AA	AA	INTERGENIC		
SNP_102988_A_31601	NW_004517136.1	scaffold2097	31601	TT	CC	CC	INTERGENIC		
SNP_102989_A_31731	NW_004517136.1	scaffold2097	31731	CC	TT	TT	INTERGENIC		
SNP_102990_A_31751	NW_004517136.1	scaffold2097	31751	AA	GG	GG	INTERGENIC		
SNP_102991_A_31784	NW_004517136.1	scaffold2097	31784	TT	GG	GG	INTERGENIC		
SNP_102992_A_31826	NW_004517136.1	scaffold2097	31826	TT	CC	CC	INTERGENIC		
SNP_102993_A_31829	NW_004517136.1	scaffold2097	31829	CC	GG	GG	INTERGENIC		
SNP_102994_A_36475	NW_004517136.1	scaffold2097	36475	CC	GG	GG	INTERGENIC		
SNP_102995_A_41187	NW_004517136.1	scaffold2097	41187	AA	GG	GG	INTERGENIC		
SNP_102996_A_1210	NW_004517140.1	scaffold2103	1210	TT	CC	CC	INTERGENIC		
SNP_102997_A_1218	NW_004517140.1	scaffold2103	1218	TT	AA	AA	INTERGENIC		
SNP_102998_A_4769	NW_004517140.1	scaffold2103	4769	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_102999_A_42697	NW_004517140.1	scaffold2103	42697	TT	CC	CC	INTERGENIC			
SNP_103000_A_103996	NW_004517140.1	scaffold2103	103996	CC	AA	AA	INTERGENIC			
SNP_103001_A_119375	NW_004517140.1	scaffold2103	119375	TT	GG	GG	INTERGENIC			
SNP_103002_A_119388	NW_004517140.1	scaffold2103	119388	GG	AA	AA	INTERGENIC			
SNP_103003_A_119390	NW_004517140.1	scaffold2103	119390	TT	CC	CC	INTERGENIC			
SNP_103004_A_119399	NW_004517140.1	scaffold2103	119399	TT	AA	AA	INTERGENIC			
SNP_103005_A_119417	NW_004517140.1	scaffold2103	119417	AA	GG	GG	INTERGENIC			
SNP_103006_A_119424	NW_004517140.1	scaffold2103	119424	AA	GG	GG	INTERGENIC			
SNP_103007_A_123849	NW_004517140.1	scaffold2103	123849	AA	TT	TT	INTERGENIC			
SNP_103008_A_123875	NW_004517140.1	scaffold2103	123875	CC	GG	GG	INTERGENIC			
SNP_103009_A_123948	NW_004517140.1	scaffold2103	123948	GG	AA	AA	INTERGENIC			
SNP_103010_A_124049	NW_004517140.1	scaffold2103	124049	GG	TT	TT	INTERGENIC			
SNP_103011_A_124064	NW_004517140.1	scaffold2103	124064	AA	GG	GG	INTERGENIC			
SNP_103012_A_124074	NW_004517140.1	scaffold2103	124074	GG	AA	AA	INTERGENIC			
SNP_103013_A_124161	NW_004517140.1	scaffold2103	124161	TT	CC	CC	INTERGENIC			
SNP_103014_A_124165	NW_004517140.1	scaffold2103	124165	TT	CC	CC	INTERGENIC			
SNP_103016_A_124563	NW_004517140.1	scaffold2103	124563	GG	TT	TT	INTERGENIC			
SNP_103017_A_134207	NW_004517140.1	scaffold2103	134207	GG	CC	CC	INTERGENIC			
SNP_103018_A_134236	NW_004517140.1	scaffold2103	134236	AA	GG	GG	INTERGENIC			
SNP_103019_A_134269	NW_004517140.1	scaffold2103	134269	CC	TT	TT	INTERGENIC			
SNP_103020_A_135804	NW_004517140.1	scaffold2103	135804	GG	AA	AA	INTERGENIC			
SNP_103021_A_135816	NW_004517140.1	scaffold2103	135816	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103022_A_135826	NW_004517140.1	scaffold2103	135826	TT	CC	CC	INTERGENIC		
SNP_103023_A_135837	NW_004517140.1	scaffold2103	135837	AA	GG	GG	INTERGENIC		
SNP_103025_A_4568	NW_004517141.1	scaffold2104	4568	GG	AA	AA	URR	101510256	uncharacterized LOC101510256
SNP_103026_A_5479	NW_004517141.1	scaffold2104	5479	TT	GG	GG	URR	101510256	uncharacterized LOC101510256
SNP_103027_A_5637	NW_004517141.1	scaffold2104	5637	CC	GG	GG	INTERGENIC		
SNP_103028_A_5719	NW_004517141.1	scaffold2104	5719	CC	GG	GG	INTERGENIC		
SNP_103029_A_6003	NW_004517141.1	scaffold2104	6003	CC	TT	TT	INTERGENIC		
SNP_103030_A_6404	NW_004517141.1	scaffold2104	6404	GG	TT	TT	INTERGENIC		
SNP_103031_A_6559	NW_004517141.1	scaffold2104	6559	TT	CC	CC	INTERGENIC		
SNP_103032_A_9443	NW_004517141.1	scaffold2104	9443	CC	TT	TT	INTERGENIC		
SNP_103033_A_9444	NW_004517141.1	scaffold2104	9444	CC	AA	AA	INTERGENIC		
SNP_103034_A_18267	NW_004517141.1	scaffold2104	18267	AA	GG	GG	INTERGENIC		
SNP_103035_A_18407	NW_004517141.1	scaffold2104	18407	CC	TT	TT	INTERGENIC		
SNP_103036_A_25347	NW_004517141.1	scaffold2104	25347	TT	CC	CC	INTERGENIC		
SNP_103038_A_35544	NW_004517141.1	scaffold2104	35544	GG	AA	AA	INTERGENIC		
SNP_103039_A_35548	NW_004517141.1	scaffold2104	35548	CC	TT	TT	INTERGENIC		
SNP_103040_A_60568	NW_004517141.1	scaffold2104	60568	AA	GG	GG	INTERGENIC		
SNP_103041_A_60949	NW_004517141.1	scaffold2104	60949	AA	GG	GG	INTERGENIC		
SNP_103042_A_60999	NW_004517141.1	scaffold2104	60999	AA	TT	TT	INTERGENIC		
SNP_103043_A_61003	NW_004517141.1	scaffold2104	61003	AA	GG	GG	INTERGENIC		
SNP_103044_A_243	NW_004517143.1	scaffold2106	243	TT	AA	AA	INTERGENIC		
SNP_103045_A_251	NW_004517143.1	scaffold2106	251	AA	TT	TT	INTERGENIC		

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SNP_103046_A_275	NW_004517143.1	scaffold2106	275	TT	CC	CC	INTERGENIC			
SNP_103047_A_278	NW_004517143.1	scaffold2106	278	TT	CC	CC	INTERGENIC			
SNP_103048_A_284	NW_004517143.1	scaffold2106	284	CC	TT	TT	INTERGENIC			
SNP_103049_A_286	NW_004517143.1	scaffold2106	286	AA	GG	GG	INTERGENIC			
SNP_103050_A_586	NW_004517143.1	scaffold2106	586	TT	AA	AA	INTERGENIC			
SNP_103051_A_689	NW_004517143.1	scaffold2106	689	AA	GG	GG	INTERGENIC			
SNP_103052_A_970	NW_004517143.1	scaffold2106	970	GG	AA	AA	INTERGENIC			
SNP_103053_A_1665	NW_004517144.1	scaffold2108	1665	TT	CC	CC	INTERGENIC			
SNP_103054_A_1713	NW_004517144.1	scaffold2108	1713	TT	CC	CC	INTERGENIC			
SNP_103055_A_1714	NW_004517144.1	scaffold2108	1714	GG	AA	AA	INTERGENIC			
SNP_103056_A_1902	NW_004517144.1	scaffold2108	1902	CC	AA	AA	INTERGENIC			
SNP_103057_A_2208	NW_004517144.1	scaffold2108	2208	GG	CC	CC	INTERGENIC			
SNP_103058_A_2346	NW_004517144.1	scaffold2108	2346	GG	AA	AA	INTERGENIC			
SNP_103059_A_2903	NW_004517144.1	scaffold2108	2903	CC	AA	AA	INTERGENIC			
SNP_103060_A_4205	NW_004517146.1	scaffold2113	4205	AA	GG	GG	INTERGENIC			
SNP_103061_A_1354	NW_004517152.1	scaffold2122	1354	TT	CC	CC	INTERGENIC			
SNP_103062_A_1363	NW_004517152.1	scaffold2122	1363	GG	AA	AA	INTERGENIC			
SNP_103064_A_5296	NW_004517153.1	scaffold2124	5296	TT	AA	AA	INTERGENIC			
SNP_103065_A_9962	NW_004517153.1	scaffold2124	9962	AA	TT	TT	INTERGENIC			
SNP_103066_A_11246	NW_004517153.1	scaffold2124	11246	AA	TT	TT	INTERGENIC			
SNP_103067_A_14739	NW_004517154.1	scaffold2125	14739	AA	GG	GG	INTERGENIC			
SNP_103069_A_5425	NW_004517155.1	scaffold2126	5425	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103070_A_5429	NW_004517155.1	scaffold2126	5429	GG	AA	AA	INTERGENIC			
SNP_103071_A_5433	NW_004517155.1	scaffold2126	5433	AA	TT	TT	INTERGENIC			
SNP_103072_A_5474	NW_004517155.1	scaffold2126	5474	TT	AA	AA	INTERGENIC			
SNP_103073_A_5724	NW_004517155.1	scaffold2126	5724	AA	GG	GG	INTERGENIC			
SNP_103074_A_5725	NW_004517155.1	scaffold2126	5725	GG	TT	TT	INTERGENIC			
SNP_103075_A_6069	NW_004517155.1	scaffold2126	6069	AA	GG	GG	INTERGENIC			
SNP_103076_A_8903	NW_004517155.1	scaffold2126	8903	TT	CC	CC	INTERGENIC			
SNP_103077_A_10749	NW_004517155.1	scaffold2126	10749	CC	TT	TT	INTERGENIC			
SNP_103078_A_10863	NW_004517155.1	scaffold2126	10863	CC	TT	TT	INTERGENIC			
SNP_103079_A_10866	NW_004517155.1	scaffold2126	10866	AA	GG	GG	INTERGENIC			
SNP_103080_A_13808	NW_004517155.1	scaffold2126	13808	AA	GG	GG	INTERGENIC			
SNP_103081_A_14168	NW_004517155.1	scaffold2126	14168	TT	AA	AA	INTERGENIC			
SNP_103082_A_14180	NW_004517155.1	scaffold2126	14180	GG	CC	CC	INTERGENIC			
SNP_103083_A_14185	NW_004517155.1	scaffold2126	14185	AA	TT	TT	INTERGENIC			
SNP_103084_A_18654	NW_004517155.1	scaffold2126	18654	TT	CC	CC	INTERGENIC			
SNP_103085_A_31205	NW_004517156.1	scaffold2127	31205	AA	GG	GG	INTERGENIC			
SNP_103086_A_41003	NW_004517156.1	scaffold2127	41003	TT	CC	CC	INTERGENIC			
SNP_103087_A_14311	NW_004517157.1	scaffold2128	14311	TT	CC	CC	INTERGENIC			
SNP_103088_A_14579	NW_004517157.1	scaffold2128	14579	AA	GG	GG	INTERGENIC			
SNP_103089_A_14838	NW_004517157.1	scaffold2128	14838	CC	TT	TT	INTERGENIC			
SNP_103090_A_14879	NW_004517157.1	scaffold2128	14879	CC	TT	TT	INTERGENIC			
SNP_103091_A_15025	NW_004517157.1	scaffold2128	15025	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103092_A_1313	NW_004517160.1	scaffold2132	1313	TT	CC	CC	INTERGENIC			
SNP_103093_A_1342	NW_004517160.1	scaffold2132	1342	TT	AA	AA	INTERGENIC			
SNP_103094_A_1427	NW_004517160.1	scaffold2132	1427	TT	GG	GG	INTERGENIC			
SNP_103095_A_3877	NW_004517162.1	scaffold2134	3877	AA	CC	CC	INTERGENIC			
SNP_103096_A_3880	NW_004517162.1	scaffold2134	3880	TT	AA	AA	INTERGENIC			
SNP_103097_A_3881	NW_004517162.1	scaffold2134	3881	AA	TT	TT	INTERGENIC			
SNP_103098_A_3897	NW_004517162.1	scaffold2134	3897	CC	TT	TT	INTERGENIC			
SNP_103099_A_3901	NW_004517162.1	scaffold2134	3901	GG	CC	CC	INTERGENIC			
SNP_103100_A_3905	NW_004517162.1	scaffold2134	3905	TT	GG	GG	INTERGENIC			
SNP_103101_A_5251	NW_004517162.1	scaffold2134	5251	GG	AA	AA	INTERGENIC			
SNP_103102_A_5252	NW_004517162.1	scaffold2134	5252	AA	GG	GG	INTERGENIC			
SNP_103103_A_5294	NW_004517162.1	scaffold2134	5294	CC	GG	GG	INTERGENIC			
SNP_103104_A_5364	NW_004517162.1	scaffold2134	5364	TT	CC	CC	INTERGENIC			
SNP_103106_A_5541	NW_004517162.1	scaffold2134	5541	GG	AA	AA	INTERGENIC			
SNP_103107_A_5686	NW_004517162.1	scaffold2134	5686	CC	TT	TT	INTERGENIC			
SNP_103108_A_5764	NW_004517162.1	scaffold2134	5764	TT	CC	CC	INTERGENIC			
SNP_103109_A_5783	NW_004517162.1	scaffold2134	5783	TT	CC	CC	INTERGENIC			
SNP_103110_A_5802	NW_004517162.1	scaffold2134	5802	CC	TT	TT	INTERGENIC			
SNP_103111_A_5821	NW_004517162.1	scaffold2134	5821	CC	TT	TT	INTERGENIC			
SNP_103112_A_5830	NW_004517162.1	scaffold2134	5830	TT	CC	CC	INTERGENIC			
SNP_103113_A_5891	NW_004517162.1	scaffold2134	5891	AA	GG	GG	INTERGENIC			
SNP_103114_A_5912	NW_004517162.1	scaffold2134	5912	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103115_A_5936	NW_004517162.1	scaffold2134	5936	AA	GG	GG	INTERGENIC		
SNP_103116_A_7275	NW_004517163.1	scaffold2135	7275	TT	CC	CC	INTERGENIC		
SNP_103117_A_7279	NW_004517163.1	scaffold2135	7279	TT	CC	CC	INTERGENIC		
SNP_103118_A_7337	NW_004517163.1	scaffold2135	7337	TT	CC	CC	INTERGENIC		
SNP_103119_A_7443	NW_004517163.1	scaffold2135	7443	GG	AA	AA	INTERGENIC		
SNP_103120_A_87	NW_004517164.1	scaffold2138	87	GG	AA	AA	INTERGENIC		
SNP_103121_A_148	NW_004517164.1	scaffold2138	148	AA	GG	GG	INTERGENIC		
SNP_103122_A_325	NW_004517164.1	scaffold2138	325	AA	TT	TT	INTERGENIC		
SNP_103123_A_337	NW_004517164.1	scaffold2138	337	GG	TT	TT	INTERGENIC		
SNP_103124_A_375	NW_004517164.1	scaffold2138	375	AA	CC	CC	INTERGENIC		
SNP_103125_A_463	NW_004517166.1	scaffold2140	463	AA	CC	CC	INTERGENIC		
SNP_103126_A_550	NW_004517166.1	scaffold2140	550	TT	CC	CC	INTERGENIC		
SNP_103127_A_563	NW_004517166.1	scaffold2140	563	AA	TT	TT	INTERGENIC		
SNP_103129_A_910	NW_004517166.1	scaffold2140	910	AA	GG	GG	INTERGENIC		
SNP_103130_A_14586	NW_004517167.1	scaffold2141	14586	CC	TT	TT	SYNONYMOUS_CODING	101511546	Unknown function
SNP_103131_A_14735	NW_004517167.1	scaffold2141	14735	CC	TT	TT	URR	101511546	Unknown function
SNP_103132_A_14818	NW_004517167.1	scaffold2141	14818	CC	TT	TT	URR	101511546	Unknown function
SNP_103133_A_14963	NW_004517167.1	scaffold2141	14963	CC	GG	GG	URR	101511546	Unknown function
SNP_103134_A_15238	NW_004517167.1	scaffold2141	15238	TT	CC	CC	URR	101511546	Unknown function
SNP_103135_A_15538	NW_004517167.1	scaffold2141	15538	GG	TT	TT	URR	101511546	Unknown function
SNP_103136_A_16639	NW_004517167.1	scaffold2141	16639	AA	GG	GG	URR	101511546	Unknown function
SNP_103137_A_16705	NW_004517167.1	scaffold2141	16705	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103138_A_17538	NW_004517167.1	scaffold2141	17538	GG	AA	AA	INTERGENIC			
SNP_103139_A_17541	NW_004517167.1	scaffold2141	17541	CC	TT	TT	INTERGENIC			
SNP_103140_A_17926	NW_004517167.1	scaffold2141	17926	GG	AA	AA	INTERGENIC			
SNP_103141_A_699	NW_004517168.1	scaffold2142	699	CC	GG	GG	INTERGENIC			
SNP_103142_A_799	NW_004517168.1	scaffold2142	799	CC	TT	TT	INTERGENIC			
SNP_103143_A_927	NW_004517168.1	scaffold2142	927	GG	CC	CC	INTERGENIC			
SNP_103144_A_1167	NW_004517170.1	scaffold2146	1167	CC	TT	TT	INTERGENIC			
SNP_103145_A_1062	NW_004517171.1	scaffold2147	1062	GG	TT	TT	INTERGENIC			
SNP_103146_A_5252	NW_004517171.1	scaffold2147	5252	TT	CC	CC	INTERGENIC			
SNP_103147_A_5578	NW_004517171.1	scaffold2147	5578	AA	GG	GG	INTERGENIC			
SNP_103148_A_6058	NW_004517171.1	scaffold2147	6058	TT	GG	GG	INTERGENIC			
SNP_103149_A_6130	NW_004517171.1	scaffold2147	6130	TT	AA	AA	INTERGENIC			
SNP_103150_A_6139	NW_004517171.1	scaffold2147	6139	AA	GG	GG	INTERGENIC			
SNP_103151_A_6453	NW_004517171.1	scaffold2147	6453	AA	GG	GG	INTERGENIC			
SNP_103152_A_21438	NW_004517171.1	scaffold2147	21438	GG	AA	AA	INTERGENIC			
SNP_103153_A_21489	NW_004517171.1	scaffold2147	21489	GG	AA	AA	INTERGENIC			
SNP_103154_A_22383	NW_004517171.1	scaffold2147	22383	TT	AA	AA	INTERGENIC			
SNP_103155_A_22514	NW_004517171.1	scaffold2147	22514	CC	AA	AA	INTERGENIC			
SNP_103156_A_22689	NW_004517171.1	scaffold2147	22689	GG	TT	TT	INTERGENIC			
SNP_103157_A_22692	NW_004517171.1	scaffold2147	22692	GG	AA	AA	INTERGENIC			
SNP_103158_A_22914	NW_004517171.1	scaffold2147	22914	AA	CC	CC	INTERGENIC			
SNP_103159_A_22931	NW_004517171.1	scaffold2147	22931	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103160_A_23253	NW_004517171.1	scaffold2147	23253	TT	AA	AA	INTERGENIC		
SNP_103161_A_23406	NW_004517171.1	scaffold2147	23406	AA	GG	GG	INTERGENIC		
SNP_103162_A_23625	NW_004517171.1	scaffold2147	23625	AA	TT	TT	INTERGENIC		
SNP_103163_A_24520	NW_004517171.1	scaffold2147	24520	TT	GG	GG	INTERGENIC		
SNP_103165_A_856	NW_004517174.1	scaffold2151	856	TT	CC	CC	INTERGENIC		
SNP_103166_A_868	NW_004517174.1	scaffold2151	868	GG	AA	AA	INTERGENIC		
SNP_103167_A_15054	NW_004517175.1	scaffold2152	15054	AA	GG	GG	DRR	101514899	DNA damage-binding protein 1-like
SNP_103168_A_20987	NW_004517175.1	scaffold2152	20987	GG	CC	CC	URR	101514899	DNA damage-binding protein 1-like
SNP_103169_A_21274	NW_004517175.1	scaffold2152	21274	GG	CC	CC	URR	101514899	DNA damage-binding protein 1-like
SNP_103170_A_21408	NW_004517175.1	scaffold2152	21408	TT	GG	GG	URR	101514899	DNA damage-binding protein 1-like
SNP_103171_A_22290	NW_004517175.1	scaffold2152	22290	AA	GG	GG	URR	101514899	DNA damage-binding protein 1-like
SNP_103172_A_22472	NW_004517175.1	scaffold2152	22472	AA	GG	GG	URR	101514899	DNA damage-binding protein 1-like
SNP_103173_A_22492	NW_004517175.1	scaffold2152	22492	TT	CC	CC	URR	101514899	DNA damage-binding protein 1-like
SNP_103175_A_34119	NW_004517175.1	scaffold2152	34119	AA	CC	CC	INTERGENIC		
SNP_103176_A_41720	NW_004517175.1	scaffold2152	41720	AA	GG	GG	INTERGENIC		
SNP_103177_A_41751	NW_004517175.1	scaffold2152	41751	TT	CC	CC	INTERGENIC		
SNP_103178_A_41758	NW_004517175.1	scaffold2152	41758	GG	CC	CC	INTERGENIC		
SNP_103179_A_41769	NW_004517175.1	scaffold2152	41769	AA	GG	GG	INTERGENIC		
SNP_103180_A_41783	NW_004517175.1	scaffold2152	41783	CC	GG	GG	INTERGENIC		
SNP_103181_A_41787	NW_004517175.1	scaffold2152	41787	TT	CC	CC	INTERGENIC		
SNP_103182_A_41941	NW_004517175.1	scaffold2152	41941	GG	AA	AA	INTERGENIC		
SNP_103183_A_42202	NW_004517175.1	scaffold2152	42202	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103184_A_42702	NW_004517175.1	scaffold2152	42702	CC	TT	TT	INTERGENIC		
SNP_103185_A_42880	NW_004517175.1	scaffold2152	42880	CC	TT	TT	INTERGENIC		
SNP_103186_A_42923	NW_004517175.1	scaffold2152	42923	AA	GG	GG	INTERGENIC		
SNP_103187_A_43158	NW_004517175.1	scaffold2152	43158	GG	AA	AA	INTERGENIC		
SNP_103188_A_43252	NW_004517175.1	scaffold2152	43252	GG	AA	AA	INTERGENIC		
SNP_103189_A_67604	NW_004517175.1	scaffold2152	67604	TT	CC	CC	INTERGENIC		
SNP_103190_A_67682	NW_004517175.1	scaffold2152	67682	AA	TT	TT	INTERGENIC		
SNP_103191_A_67845	NW_004517175.1	scaffold2152	67845	AA	CC	CC	INTERGENIC		
SNP_103194_A_76785	NW_004517175.1	scaffold2152	76785	AA	GG	GG	URR	101488301	two-component response regulator ARR12-like
SNP_103195_A_88697	NW_004517175.1	scaffold2152	88697	TT	CC	CC	DRR	101488626	Unknown function
SNP_103196_A_88722	NW_004517175.1	scaffold2152	88722	CC	AA	AA	DRR	101488626	Unknown function
SNP_103197_A_88832	NW_004517175.1	scaffold2152	88832	GG	CC	CC	DRR	101488626	Unknown function
SNP_103198_A_88890	NW_004517175.1	scaffold2152	88890	CC	AA	AA	DRR	101488626	Unknown function
SNP_103199_A_88956	NW_004517175.1	scaffold2152	88956	AA	CC	CC	DRR	101488626	Unknown function
SNP_103200_A_88999	NW_004517175.1	scaffold2152	88999	GG	TT	TT	DRR	101488626	Unknown function
SNP_103201_A_89232	NW_004517175.1	scaffold2152	89232	AA	TT	TT	INTRON	101488626	Unknown function
SNP_103202_A_91306	NW_004517175.1	scaffold2152	91306	AA	CC	CC	INTRON	101488626	Unknown function
SNP_103203_A_95455	NW_004517175.1	scaffold2152	95455	GG	TT	TT	INTRON	101488626	Unknown function
SNP_103204_A_95660	NW_004517175.1	scaffold2152	95660	AA	GG	GG	INTRON	101488626	Unknown function
SNP_103205_A_95824	NW_004517175.1	scaffold2152	95824	CC	AA	AA	INTRON	101488626	Unknown function
SNP_103206_A_95889	NW_004517175.1	scaffold2152	95889	CC	TT	TT	INTRON	101488626	Unknown function
SNP_103207_A_108205	NW_004517175.1	scaffold2152	108205	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103209_A_108713	NW_004517175.1	scaffold2152	108713	GG	AA	AA	INTERGENIC		
SNP_103210_A_108807	NW_004517175.1	scaffold2152	108807	CC	TT	TT	INTERGENIC		
SNP_103211_A_108824	NW_004517175.1	scaffold2152	108824	AA	GG	GG	INTERGENIC		
SNP_103212_A_109002	NW_004517175.1	scaffold2152	109002	GG	TT	TT	INTERGENIC		
SNP_103213_A_162877	NW_004517175.1	scaffold2152	162877	TT	CC	CC	URR	101489943	Unknown function
SNP_103214_A_162980	NW_004517175.1	scaffold2152	162980	TT	CC	CC	URR	101489943	Unknown function
SNP_103215_A_281823	NW_004517175.1	scaffold2152	281823	AA	GG	GG	INTERGENIC		
SNP_103216_A_283314	NW_004517175.1	scaffold2152	283314	TT	CC	CC	INTERGENIC		
SNP_103217_A_283424	NW_004517175.1	scaffold2152	283424	AA	GG	GG	INTERGENIC		
SNP_103218_A_304611	NW_004517175.1	scaffold2152	304611	TT	GG	GG	DRR	101513371	romboid-like protease 2
SNP_103219_A_312652	NW_004517175.1	scaffold2152	312652	CC	TT	TT	INTERGENIC		
SNP_103220_A_324904	NW_004517175.1	scaffold2152	324904	AA	TT	TT	INTERGENIC		
SNP_103221_A_325075	NW_004517175.1	scaffold2152	325075	GG	AA	AA	INTERGENIC		
SNP_103222_A_336569	NW_004517175.1	scaffold2152	336569	TT	CC	CC	INTERGENIC		
SNP_103223_A_336657	NW_004517175.1	scaffold2152	336657	TT	CC	CC	INTERGENIC		
SNP_103224_A_379485	NW_004517175.1	scaffold2152	379485	AA	GG	GG	INTERGENIC		
SNP_103225_A_379695	NW_004517175.1	scaffold2152	379695	TT	CC	CC	INTERGENIC		
SNP_103226_A_379906	NW_004517175.1	scaffold2152	379906	GG	AA	AA	INTERGENIC		
SNP_103227_A_379932	NW_004517175.1	scaffold2152	379932	TT	GG	GG	INTERGENIC		
SNP_103228_A_380096	NW_004517175.1	scaffold2152	380096	AA	GG	GG	INTERGENIC		
SNP_103230_A_8250	NW_004517176.1	scaffold2153	8250	CC	TT	TT	INTERGENIC		
SNP_103231_A_8570	NW_004517176.1	scaffold2153	8570	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103233_A_19786	NW_004517176.1	scaffold2153	19786	TT	CC	CC	INTERGENIC			
SNP_103234_A_19856	NW_004517176.1	scaffold2153	19856	AA	GG	GG	INTERGENIC			
SNP_103235_A_32554	NW_004517176.1	scaffold2153	32554	AA	GG	GG	INTERGENIC			
SNP_103236_A_32803	NW_004517176.1	scaffold2153	32803	TT	GG	GG	INTERGENIC			
SNP_103237_A_32879	NW_004517176.1	scaffold2153	32879	GG	AA	AA	INTERGENIC			
SNP_103238_A_32901	NW_004517176.1	scaffold2153	32901	TT	CC	CC	INTERGENIC			
SNP_103239_A_120	NW_004517177.1	scaffold2155	120	CC	TT	TT	INTERGENIC			
SNP_103241_A_595	NW_004517177.1	scaffold2155	595	AA	TT	TT	INTERGENIC			
SNP_103242_A_19438	NW_004517177.1	scaffold2155	19438	TT	GG	GG	INTERGENIC			
SNP_103243_A_39384	NW_004517177.1	scaffold2155	39384	AA	TT	TT	INTERGENIC			
SNP_103244_A_598	NW_004517178.1	scaffold2157	598	TT	CC	CC	INTERGENIC			
SNP_103245_A_252	NW_004517179.1	scaffold2158	252	AA	GG	GG	INTERGENIC			
SNP_103246_A_312	NW_004517179.1	scaffold2158	312	TT	CC	CC	INTERGENIC			
SNP_103247_A_316	NW_004517179.1	scaffold2158	316	AA	TT	TT	INTERGENIC			
SNP_103248_A_577	NW_004517179.1	scaffold2158	577	CC	TT	TT	INTERGENIC			
SNP_103249_A_619	NW_004517179.1	scaffold2158	619	GG	TT	TT	INTERGENIC			
SNP_103250_A_24904	NW_004517179.1	scaffold2158	24904	AA	GG	GG	INTERGENIC			
SNP_103251_A_52268	NW_004517179.1	scaffold2158	52268	GG	TT	TT	INTERGENIC			
SNP_103252_A_52289	NW_004517179.1	scaffold2158	52289	AA	GG	GG	INTERGENIC			
SNP_103253_A_64441	NW_004517179.1	scaffold2158	64441	AA	GG	GG	INTERGENIC			
SNP_103254_A_64514	NW_004517179.1	scaffold2158	64514	AA	GG	GG	INTERGENIC			
SNP_103255_A_64623	NW_004517179.1	scaffold2158	64623	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103256_A_64624	NW_004517179.1	scaffold2158	64624	TT	GG	GG	INTERGENIC			
SNP_103257_A_64691	NW_004517179.1	scaffold2158	64691	GG	TT	TT	INTERGENIC			
SNP_103258_A_64776	NW_004517179.1	scaffold2158	64776	GG	AA	AA	INTERGENIC			
SNP_103260_A_106105	NW_004517179.1	scaffold2158	106105	TT	GG	GG	INTERGENIC			
SNP_103261_A_113668	NW_004517179.1	scaffold2158	113668	CC	GG	GG	INTERGENIC			
SNP_103262_A_117066	NW_004517179.1	scaffold2158	117066	AA	GG	GG	INTERGENIC			
SNP_103263_A_125131	NW_004517179.1	scaffold2158	125131	AA	GG	GG	INTERGENIC			
SNP_103264_A_125319	NW_004517179.1	scaffold2158	125319	CC	AA	AA	INTERGENIC			
SNP_103265_A_125403	NW_004517179.1	scaffold2158	125403	TT	AA	AA	INTERGENIC			
SNP_103266_A_125610	NW_004517179.1	scaffold2158	125610	TT	CC	CC	INTERGENIC			
SNP_103267_A_127238	NW_004517179.1	scaffold2158	127238	TT	GG	GG	INTERGENIC			
SNP_103268_A_127639	NW_004517179.1	scaffold2158	127639	TT	GG	GG	INTERGENIC			
SNP_103269_A_127647	NW_004517179.1	scaffold2158	127647	TT	CC	CC	INTERGENIC			
SNP_103271_A_150540	NW_004517179.1	scaffold2158	150540	AA	GG	GG	URR	101492535	urease accessory protein D	
SNP_103272_A_150696	NW_004517179.1	scaffold2158	150696	GG	AA	AA	URR	101492535	urease accessory protein D	
SNP_103275_A_186468	NW_004517179.1	scaffold2158	186468	TT	CC	CC	NON_SYNONYMOUS_CODING	101493512	uncharacterized LOC101493512	
SNP_103276_A_188998	NW_004517179.1	scaffold2158	188998	GG	AA	AA	URR	101493512	uncharacterized LOC101493512	
SNP_103277_A_195952	NW_004517179.1	scaffold2158	195952	CC	TT	TT	INTERGENIC			
SNP_103278_A_197820	NW_004517179.1	scaffold2158	197820	AA	CC	CC	INTERGENIC			
SNP_103279_A_201597	NW_004517179.1	scaffold2158	201597	TT	CC	CC	INTERGENIC			
SNP_103280_A_204568	NW_004517179.1	scaffold2158	204568	AA	GG	GG	INTERGENIC			
SNP_103281_A_218955	NW_004517179.1	scaffold2158	218955	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103282_A_219297	NW_004517179.1	scaffold2158	219297	AA	TT	TT	INTERGENIC		
SNP_103283_A_219316	NW_004517179.1	scaffold2158	219316	GG	AA	AA	INTERGENIC		
SNP_103284_A_219358	NW_004517179.1	scaffold2158	219358	TT	CC	CC	INTERGENIC		
SNP_103285_A_4813	NW_004517180.1	scaffold2160	4813	TT	CC	CC	INTERGENIC		
SNP_103286_A_4859	NW_004517180.1	scaffold2160	4859	AA	GG	GG	INTERGENIC		
SNP_103287_A_20697	NW_004517180.1	scaffold2160	20697	GG	TT	TT	INTERGENIC		
SNP_103288_A_20946	NW_004517180.1	scaffold2160	20946	AA	GG	GG	INTERGENIC		
SNP_103290_A_28456	NW_004517180.1	scaffold2160	28456	GG	AA	AA	INTERGENIC		
SNP_103291_A_28681	NW_004517180.1	scaffold2160	28681	GG	TT	TT	INTERGENIC		
SNP_103292_A_28694	NW_004517180.1	scaffold2160	28694	AA	TT	TT	INTERGENIC		
SNP_103293_A_28720	NW_004517180.1	scaffold2160	28720	AA	GG	GG	INTERGENIC		
SNP_103294_A_33465	NW_004517180.1	scaffold2160	33465	CC	GG	GG	INTERGENIC		
SNP_103295_A_33780	NW_004517180.1	scaffold2160	33780	AA	CC	CC	INTERGENIC		
SNP_103296_A_33827	NW_004517180.1	scaffold2160	33827	GG	CC	CC	INTERGENIC		
SNP_103297_A_33861	NW_004517180.1	scaffold2160	33861	AA	GG	GG	INTERGENIC		
SNP_103298_A_63	NW_004517181.1	scaffold2161	63	TT	CC	CC	INTERGENIC		
SNP_103299_A_64	NW_004517181.1	scaffold2161	64	AA	GG	GG	INTERGENIC		
SNP_103301_A_4006	NW_004517181.1	scaffold2161	4006	TT	AA	AA	DRR	101495329	Unknown function
SNP_103302_A_5047	NW_004517181.1	scaffold2161	5047	TT	CC	CC	INTERGENIC		
SNP_103303_A_5053	NW_004517181.1	scaffold2161	5053	AA	CC	CC	INTERGENIC		
SNP_103305_A_7438	NW_004517181.1	scaffold2161	7438	TT	CC	CC	URR	101495329	Unknown function
SNP_103306_A_7491	NW_004517181.1	scaffold2161	7491	GG	TT	TT	URR	101495329	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103307_A_8706	NW_004517181.1	scaffold2161	8706	GG	AA	AA	URR	101495329	Unknown function
SNP_103308_A_9083	NW_004517181.1	scaffold2161	9083	CC	TT	TT	INTERGENIC		
SNP_103309_A_10550	NW_004517181.1	scaffold2161	10550	AA	TT	TT	URR	101494156	folypolyglutamate synthase-like
SNP_103311_A_27233	NW_004517181.1	scaffold2161	27233	GG	TT	TT	INTERGENIC		
SNP_103313_A_58411	NW_004517181.1	scaffold2161	58411	GG	TT	TT	INTERGENIC		
SNP_103314_A_58420	NW_004517181.1	scaffold2161	58420	AA	TT	TT	INTERGENIC		
SNP_103315_A_58424	NW_004517181.1	scaffold2161	58424	GG	AA	AA	INTERGENIC		
SNP_103316_A_58425	NW_004517181.1	scaffold2161	58425	TT	AA	AA	INTERGENIC		
SNP_103317_A_58427	NW_004517181.1	scaffold2161	58427	TT	GG	GG	INTERGENIC		
SNP_103318_A_68047	NW_004517181.1	scaffold2161	68047	AA	GG	GG	INTERGENIC		
SNP_103319_A_106432	NW_004517181.1	scaffold2161	106432	TT	CC	CC	DRR	101495977	pectinesterase-like
SNP_103320_A_106508	NW_004517181.1	scaffold2161	106508	TT	CC	CC	DRR	101495977	pectinesterase-like
SNP_103321_A_106775	NW_004517181.1	scaffold2161	106775	AA	GG	GG	SYNONYMOUS_CODING	101495977	pectinesterase-like
SNP_103322_A_106865	NW_004517181.1	scaffold2161	106865	GG	AA	AA	SYNONYMOUS_CODING	101495977	pectinesterase-like
SNP_103323_A_106882	NW_004517181.1	scaffold2161	106882	TT	CC	CC	NON_SYNONYMOUS_CODING	101495977	pectinesterase-like
SNP_103324_A_111326	NW_004517181.1	scaffold2161	111326	GG	AA	AA	INTRON	101495977	pectinesterase-like
SNP_103325_A_111372	NW_004517181.1	scaffold2161	111372	AA	GG	GG	INTRON	101495977	pectinesterase-like
SNP_103326_A_111673	NW_004517181.1	scaffold2161	111673	TT	CC	CC	INTRON	101495977	pectinesterase-like
SNP_103327_A_111729	NW_004517181.1	scaffold2161	111729	AA	TT	TT	INTRON	101495977	pectinesterase-like
SNP_103328_A_128537	NW_004517181.1	scaffold2161	128537	TT	AA	AA	INTRON	101495977	pectinesterase-like
SNP_103329_A_134337	NW_004517181.1	scaffold2161	134337	AA	CC	CC	DRR	101496314	Unknown function
SNP_103330_A_160242	NW_004517181.1	scaffold2161	160242	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103331_A_168078	NW_004517181.1	scaffold2161	168078	CC	TT	TT	INTERGENIC			
SNP_103332_A_171920	NW_004517181.1	scaffold2161	171920	AA	GG	GG	INTERGENIC			
SNP_103334_A_196631	NW_004517181.1	scaffold2161	196631	AA	GG	GG	INTERGENIC			
SNP_103335_A_196736	NW_004517181.1	scaffold2161	196736	TT	GG	GG	INTERGENIC			
SNP_103336_A_196773	NW_004517181.1	scaffold2161	196773	GG	AA	AA	INTERGENIC			
SNP_103337_A_203511	NW_004517181.1	scaffold2161	203511	GG	CC	CC	INTERGENIC			
SNP_103338_A_216110	NW_004517181.1	scaffold2161	216110	AA	GG	GG	INTERGENIC			
SNP_103339_A_249592	NW_004517181.1	scaffold2161	249592	GG	AA	AA	INTERGENIC			
SNP_103340_A_249647	NW_004517181.1	scaffold2161	249647	AA	TT	TT	INTERGENIC			
SNP_103341_A_271949	NW_004517181.1	scaffold2161	271949	CC	TT	TT	INTERGENIC			
SNP_103342_A_579	NW_004517182.1	scaffold2163	579	TT	GG	GG	INTERGENIC			
SNP_103343_A_28578	NW_004517182.1	scaffold2163	28578	AA	TT	TT	INTERGENIC			
SNP_103344_A_51029	NW_004517182.1	scaffold2163	51029	TT	AA	AA	INTERGENIC			
SNP_103345_A_69485	NW_004517182.1	scaffold2163	69485	TT	AA	AA	INTERGENIC			
SNP_103346_A_69690	NW_004517182.1	scaffold2163	69690	AA	TT	TT	INTERGENIC			
SNP_103347_A_69706	NW_004517182.1	scaffold2163	69706	TT	GG	GG	INTERGENIC			
SNP_103348_A_69747	NW_004517182.1	scaffold2163	69747	GG	AA	AA	INTERGENIC			
SNP_103349_A_69775	NW_004517182.1	scaffold2163	69775	AA	GG	GG	INTERGENIC			
SNP_103350_A_71191	NW_004517182.1	scaffold2163	71191	TT	GG	GG	INTERGENIC			
SNP_103351_A_71434	NW_004517182.1	scaffold2163	71434	CC	AA	AA	INTERGENIC			
SNP_103352_A_71469	NW_004517182.1	scaffold2163	71469	TT	AA	AA	INTERGENIC			
SNP_103353_A_71491	NW_004517182.1	scaffold2163	71491	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103354_A_71570	NW_004517182.1	scaffold2163	71570	AA	TT	TT	INTERGENIC			
SNP_103355_A_71576	NW_004517182.1	scaffold2163	71576	AA	TT	TT	INTERGENIC			
SNP_103356_A_74072	NW_004517182.1	scaffold2163	74072	TT	CC	CC	INTERGENIC			
SNP_103357_A_74263	NW_004517182.1	scaffold2163	74263	TT	CC	CC	INTERGENIC			
SNP_103358_A_74274	NW_004517182.1	scaffold2163	74274	AA	CC	CC	INTERGENIC			
SNP_103359_A_78336	NW_004517182.1	scaffold2163	78336	TT	AA	AA	INTERGENIC			
SNP_103360_A_78497	NW_004517182.1	scaffold2163	78497	TT	CC	CC	INTERGENIC			
SNP_103361_A_78546	NW_004517182.1	scaffold2163	78546	TT	GG	GG	INTERGENIC			
SNP_103362_A_78589	NW_004517182.1	scaffold2163	78589	AA	TT	TT	INTERGENIC			
SNP_103363_A_78614	NW_004517182.1	scaffold2163	78614	CC	TT	TT	INTERGENIC			
SNP_103365_A_78691	NW_004517182.1	scaffold2163	78691	AA	TT	TT	INTERGENIC			
SNP_103366_A_78744	NW_004517182.1	scaffold2163	78744	GG	AA	AA	INTERGENIC			
SNP_103367_A_5583	NW_004517183.1	scaffold2164	5583	GG	AA	AA	INTERGENIC			
SNP_103368_A_6464	NW_004517183.1	scaffold2164	6464	CC	AA	AA	INTERGENIC			
SNP_103369_A_17925	NW_004517183.1	scaffold2164	17925	GG	AA	AA	INTERGENIC			
SNP_103370_A_23188	NW_004517183.1	scaffold2164	23188	GG	AA	AA	INTERGENIC			
SNP_103371_A_23427	NW_004517183.1	scaffold2164	23427	TT	AA	AA	INTERGENIC			
SNP_103372_A_38915	NW_004517183.1	scaffold2164	38915	TT	CC	CC	INTERGENIC			
SNP_103373_A_38962	NW_004517183.1	scaffold2164	38962	TT	GG	GG	INTERGENIC			
SNP_103374_A_39220	NW_004517183.1	scaffold2164	39220	GG	AA	AA	INTERGENIC			
SNP_103375_A_39341	NW_004517183.1	scaffold2164	39341	TT	GG	GG	INTERGENIC			
SNP_103376_A_62887	NW_004517183.1	scaffold2164	62887	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103377_A_62980	NW_004517183.1	scaffold2164	62980	GG	AA	AA	INTERGENIC			
SNP_103378_A_63353	NW_004517183.1	scaffold2164	63353	GG	TT	TT	INTERGENIC			
SNP_103379_A_67737	NW_004517183.1	scaffold2164	67737	AA	CC	CC	INTERGENIC			
SNP_103380_A_67751	NW_004517183.1	scaffold2164	67751	AA	GG	GG	INTERGENIC			
SNP_103382_A_71575	NW_004517183.1	scaffold2164	71575	TT	AA	AA	INTERGENIC			
SNP_103383_A_71609	NW_004517183.1	scaffold2164	71609	TT	AA	AA	INTERGENIC			
SNP_103384_A_88683	NW_004517183.1	scaffold2164	88683	CC	AA	AA	INTERGENIC			
SNP_103385_A_90383	NW_004517183.1	scaffold2164	90383	CC	TT	TT	INTERGENIC			
SNP_103386_A_770	NW_004517184.1	scaffold2166	770	TT	CC	CC	INTERGENIC			
SNP_103387_A_792	NW_004517184.1	scaffold2166	792	AA	GG	GG	INTERGENIC			
SNP_103388_A_831	NW_004517184.1	scaffold2166	831	TT	AA	AA	INTERGENIC			
SNP_103391_A_72512	NW_004517184.1	scaffold2166	72512	TT	CC	CC	URR	101498396	uncharacterized LOC101498396	
SNP_103393_A_101513	NW_004517184.1	scaffold2166	101513	AA	TT	TT	INTERGENIC			
SNP_103394_A_101514	NW_004517184.1	scaffold2166	101514	AA	TT	TT	INTERGENIC			
SNP_103395_A_102067	NW_004517184.1	scaffold2166	102067	TT	AA	AA	INTERGENIC			
SNP_103396_A_125161	NW_004517184.1	scaffold2166	125161	GG	AA	AA	INTERGENIC			
SNP_103397_A_194205	NW_004517184.1	scaffold2166	194205	AA	GG	GG	INTERGENIC			
SNP_103398_A_194525	NW_004517184.1	scaffold2166	194525	GG	TT	TT	INTERGENIC			
SNP_103399_A_204117	NW_004517184.1	scaffold2166	204117	TT	CC	CC	INTERGENIC			
SNP_103400_A_10887	NW_004517185.1	scaffold2168	10887	AA	CC	CC	INTERGENIC			
SNP_103401_A_12761	NW_004517185.1	scaffold2168	12761	AA	TT	TT	INTERGENIC			
SNP_103402_A_12841	NW_004517185.1	scaffold2168	12841	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103403_A_13087	NW_004517185.1	scaffold2168	13087	AA	CC	CC	INTERGENIC		
SNP_103404_A_13089	NW_004517185.1	scaffold2168	13089	CC	AA	AA	INTERGENIC		
SNP_103405_A_13170	NW_004517185.1	scaffold2168	13170	CC	AA	AA	INTERGENIC		
SNP_103406_A_13188	NW_004517185.1	scaffold2168	13188	GG	AA	AA	INTERGENIC		
SNP_103407_A_13206	NW_004517185.1	scaffold2168	13206	AA	GG	GG	INTERGENIC		
SNP_103408_A_330	NW_004517186.1	scaffold2169	330	TT	AA	AA	INTERGENIC		
SNP_103409_A_1092	NW_004517186.1	scaffold2169	1092	AA	TT	TT	INTERGENIC		
SNP_103410_A_1106	NW_004517186.1	scaffold2169	1106	AA	GG	GG	INTERGENIC		
SNP_103411_A_1107	NW_004517186.1	scaffold2169	1107	AA	GG	GG	INTERGENIC		
SNP_103412_A_2469	NW_004517187.1	scaffold2170	2469	TT	CC	CC	INTERGENIC		
SNP_103413_A_2727	NW_004517187.1	scaffold2170	2727	TT	CC	CC	INTERGENIC		
SNP_103414_A_2919	NW_004517187.1	scaffold2170	2919	CC	GG	GG	INTERGENIC		
SNP_103415_A_3185	NW_004517187.1	scaffold2170	3185	CC	TT	TT	INTERGENIC		
SNP_103416_A_3187	NW_004517187.1	scaffold2170	3187	CC	TT	TT	INTERGENIC		
SNP_103417_A_3249	NW_004517187.1	scaffold2170	3249	GG	AA	AA	INTERGENIC		
SNP_103418_A_3307	NW_004517187.1	scaffold2170	3307	GG	AA	AA	INTERGENIC		
SNP_103419_A_3349	NW_004517187.1	scaffold2170	3349	AA	GG	GG	INTERGENIC		
SNP_103420_A_3512	NW_004517187.1	scaffold2170	3512	AA	GG	GG	INTERGENIC		
SNP_103421_A_3579	NW_004517187.1	scaffold2170	3579	GG	AA	AA	INTERGENIC		
SNP_103422_A_3817	NW_004517187.1	scaffold2170	3817	GG	AA	AA	DRR	101503191	tripeptidyl-peptidase 2-like
SNP_103423_A_3999	NW_004517187.1	scaffold2170	3999	TT	CC	CC	DRR	101503191	tripeptidyl-peptidase 2-like
SNP_103425_A_4279	NW_004517187.1	scaffold2170	4279	CC	GG	GG	DRR	101503191	tripeptidyl-peptidase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103426_A_4498	NW_004517187.1	scaffold2170	4498	GG	AA	AA	DRR	101503191	tripeptidyl-peptidase 2-like
SNP_103427_A_4672	NW_004517187.1	scaffold2170	4672	GG	CC	CC	DRR	101503191	tripeptidyl-peptidase 2-like
SNP_103428_A_4761	NW_004517187.1	scaffold2170	4761	GG	AA	AA	INTERGENIC		
SNP_103429_A_4821	NW_004517187.1	scaffold2170	4821	AA	GG	GG	INTERGENIC		
SNP_103432_A_5788	NW_004517187.1	scaffold2170	5788	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103433_A_6265	NW_004517187.1	scaffold2170	6265	TT	CC	CC	NON_SYNONYMOUS_CODING	101503191	tripeptidyl-peptidase 2-like
SNP_103434_A_6409	NW_004517187.1	scaffold2170	6409	TT	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103435_A_6558	NW_004517187.1	scaffold2170	6558	GG	AA	AA	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103436_A_6576	NW_004517187.1	scaffold2170	6576	TT	CC	CC	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103437_A_6593	NW_004517187.1	scaffold2170	6593	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103438_A_6597	NW_004517187.1	scaffold2170	6597	GG	CC	CC	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103439_A_6599	NW_004517187.1	scaffold2170	6599	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103440_A_6653	NW_004517187.1	scaffold2170	6653	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103441_A_7055	NW_004517187.1	scaffold2170	7055	GG	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103442_A_7161	NW_004517187.1	scaffold2170	7161	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103443_A_7287	NW_004517187.1	scaffold2170	7287	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103444_A_7691	NW_004517187.1	scaffold2170	7691	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103445_A_7947	NW_004517187.1	scaffold2170	7947	AA	CC	CC	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103446_A_9667	NW_004517187.1	scaffold2170	9667	TT	AA	AA	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103447_A_10006	NW_004517187.1	scaffold2170	10006	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103448_A_11824	NW_004517187.1	scaffold2170	11824	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103449_A_12252	NW_004517187.1	scaffold2170	12252	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103451_A_12356	NW_004517187.1	scaffold2170	12356	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103452_A_12433	NW_004517187.1	scaffold2170	12433	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103454_A_13232	NW_004517187.1	scaffold2170	13232	AA	GG	GG	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103455_A_14090	NW_004517187.1	scaffold2170	14090	CC	TT	TT	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103457_A_14545	NW_004517187.1	scaffold2170	14545	GG	AA	AA	INTRON	101503191	tripeptidyl-peptidase 2-like
SNP_103458_A_37914	NW_004517187.1	scaffold2170	37914	CC	TT	TT	URR	101505437	Unknown function
SNP_103459_A_37978	NW_004517187.1	scaffold2170	37978	AA	CC	CC	URR	101505437	Unknown function
SNP_103460_A_38031	NW_004517187.1	scaffold2170	38031	CC	TT	TT	URR	101505437	Unknown function
SNP_103461_A_38051	NW_004517187.1	scaffold2170	38051	TT	GG	GG	URR	101505437	Unknown function
SNP_103462_A_38441	NW_004517187.1	scaffold2170	38441	CC	GG	GG	URR	101505437	Unknown function
SNP_103463_A_1810	NW_004517189.1	scaffold2173	1810	CC	AA	AA	INTERGENIC		
SNP_103464_A_1838	NW_004517189.1	scaffold2173	1838	TT	AA	AA	INTERGENIC		
SNP_103465_A_1847	NW_004517189.1	scaffold2173	1847	GG	TT	TT	INTERGENIC		
SNP_103466_A_2040	NW_004517189.1	scaffold2173	2040	GG	AA	AA	INTERGENIC		
SNP_103467_A_2099	NW_004517189.1	scaffold2173	2099	CC	AA	AA	INTERGENIC		
SNP_103468_A_6634	NW_004517189.1	scaffold2173	6634	GG	TT	TT	INTERGENIC		
SNP_103469_A_6639	NW_004517189.1	scaffold2173	6639	AA	CC	CC	INTERGENIC		
SNP_103470_A_6774	NW_004517189.1	scaffold2173	6774	CC	TT	TT	INTERGENIC		
SNP_103471_A_6787	NW_004517189.1	scaffold2173	6787	CC	TT	TT	INTERGENIC		
SNP_103472_A_7008	NW_004517189.1	scaffold2173	7008	AA	TT	TT	INTERGENIC		
SNP_103473_A_7024	NW_004517189.1	scaffold2173	7024	CC	TT	TT	INTERGENIC		
SNP_103474_A_7077	NW_004517189.1	scaffold2173	7077	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103475_A_7157	NW_004517189.1	scaffold2173	7157	AA	CC	CC	INTERGENIC			
SNP_103476_A_7441	NW_004517189.1	scaffold2173	7441	AA	GG	GG	INTERGENIC			
SNP_103477_A_7748	NW_004517189.1	scaffold2173	7748	AA	TT	TT	INTERGENIC			
SNP_103478_A_16570	NW_004517189.1	scaffold2173	16570	TT	AA	AA	INTERGENIC			
SNP_103479_A_18368	NW_004517189.1	scaffold2173	18368	AA	GG	GG	INTERGENIC			
SNP_103480_A_18377	NW_004517189.1	scaffold2173	18377	AA	GG	GG	INTERGENIC			
SNP_103481_A_18383	NW_004517189.1	scaffold2173	18383	GG	AA	AA	INTERGENIC			
SNP_103482_A_18397	NW_004517189.1	scaffold2173	18397	GG	TT	TT	INTERGENIC			
SNP_103483_A_18406	NW_004517189.1	scaffold2173	18406	GG	AA	AA	INTERGENIC			
SNP_103484_A_18460	NW_004517189.1	scaffold2173	18460	CC	AA	AA	INTERGENIC			
SNP_103485_A_18490	NW_004517189.1	scaffold2173	18490	CC	TT	TT	INTERGENIC			
SNP_103486_A_18529	NW_004517189.1	scaffold2173	18529	GG	CC	CC	INTERGENIC			
SNP_103487_A_18585	NW_004517189.1	scaffold2173	18585	GG	CC	CC	INTERGENIC			
SNP_103488_A_18603	NW_004517189.1	scaffold2173	18603	CC	AA	AA	INTERGENIC			
SNP_103489_A_18875	NW_004517189.1	scaffold2173	18875	TT	CC	CC	INTERGENIC			
SNP_103490_A_18914	NW_004517189.1	scaffold2173	18914	AA	GG	GG	INTERGENIC			
SNP_103491_A_18941	NW_004517189.1	scaffold2173	18941	CC	GG	GG	INTERGENIC			
SNP_103492_A_19112	NW_004517189.1	scaffold2173	19112	CC	GG	GG	INTERGENIC			
SNP_103493_A_19130	NW_004517189.1	scaffold2173	19130	AA	GG	GG	INTERGENIC			
SNP_103494_A_19254	NW_004517189.1	scaffold2173	19254	AA	GG	GG	INTERGENIC			
SNP_103495_A_19273	NW_004517189.1	scaffold2173	19273	GG	CC	CC	INTERGENIC			
SNP_103496_A_19284	NW_004517189.1	scaffold2173	19284	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103498_A_19597	NW_004517189.1	scaffold2173	19597	GG	CC	CC	INTERGENIC			
SNP_103500_A_19633	NW_004517189.1	scaffold2173	19633	TT	AA	AA	INTERGENIC			
SNP_103501_A_19731	NW_004517189.1	scaffold2173	19731	AA	GG	GG	INTERGENIC			
SNP_103502_A_19749	NW_004517189.1	scaffold2173	19749	AA	TT	TT	INTERGENIC			
SNP_103503_A_19754	NW_004517189.1	scaffold2173	19754	AA	TT	TT	INTERGENIC			
SNP_103504_A_19763	NW_004517189.1	scaffold2173	19763	AA	GG	GG	INTERGENIC			
SNP_103505_A_19816	NW_004517189.1	scaffold2173	19816	TT	AA	AA	INTERGENIC			
SNP_103506_A_19817	NW_004517189.1	scaffold2173	19817	TT	GG	GG	INTERGENIC			
SNP_103508_A_19918	NW_004517189.1	scaffold2173	19918	AA	GG	GG	INTERGENIC			
SNP_103509_A_19947	NW_004517189.1	scaffold2173	19947	CC	TT	TT	INTERGENIC			
SNP_103510_A_19953	NW_004517189.1	scaffold2173	19953	AA	CC	CC	INTERGENIC			
SNP_103511_A_19990	NW_004517189.1	scaffold2173	19990	AA	GG	GG	INTERGENIC			
SNP_103512_A_20246	NW_004517189.1	scaffold2173	20246	CC	AA	AA	INTERGENIC			
SNP_103513_A_20272	NW_004517189.1	scaffold2173	20272	AA	GG	GG	INTERGENIC			
SNP_103514_A_20293	NW_004517189.1	scaffold2173	20293	CC	AA	AA	INTERGENIC			
SNP_103515_A_20325	NW_004517189.1	scaffold2173	20325	CC	TT	TT	INTERGENIC			
SNP_103516_A_20416	NW_004517189.1	scaffold2173	20416	TT	GG	GG	INTERGENIC			
SNP_103517_A_20461	NW_004517189.1	scaffold2173	20461	AA	TT	TT	INTERGENIC			
SNP_103518_A_20468	NW_004517189.1	scaffold2173	20468	TT	AA	AA	INTERGENIC			
SNP_103519_A_20575	NW_004517189.1	scaffold2173	20575	TT	AA	AA	INTERGENIC			
SNP_103520_A_20584	NW_004517189.1	scaffold2173	20584	TT	CC	CC	INTERGENIC			
SNP_103521_A_20586	NW_004517189.1	scaffold2173	20586	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103522_A_20597	NW_004517189.1	scaffold2173	20597	TT	AA	AA	INTERGENIC			
SNP_103523_A_20600	NW_004517189.1	scaffold2173	20600	TT	AA	AA	INTERGENIC			
SNP_103524_A_20605	NW_004517189.1	scaffold2173	20605	TT	CC	CC	INTERGENIC			
SNP_103525_A_20675	NW_004517189.1	scaffold2173	20675	AA	GG	GG	INTERGENIC			
SNP_103526_A_20760	NW_004517189.1	scaffold2173	20760	GG	TT	TT	INTERGENIC			
SNP_103527_A_21006	NW_004517189.1	scaffold2173	21006	AA	GG	GG	INTERGENIC			
SNP_103528_A_54816	NW_004517189.1	scaffold2173	54816	GG	TT	TT	INTERGENIC			
SNP_103529_A_54862	NW_004517189.1	scaffold2173	54862	TT	CC	CC	INTERGENIC			
SNP_103530_A_55981	NW_004517189.1	scaffold2173	55981	GG	CC	CC	INTERGENIC			
SNP_103531_A_56189	NW_004517189.1	scaffold2173	56189	AA	GG	GG	INTERGENIC			
SNP_103533_A_56289	NW_004517189.1	scaffold2173	56289	AA	GG	GG	INTERGENIC			
SNP_103534_A_56428	NW_004517189.1	scaffold2173	56428	GG	TT	TT	INTERGENIC			
SNP_103535_A_56504	NW_004517189.1	scaffold2173	56504	GG	TT	TT	INTERGENIC			
SNP_103537_A_56594	NW_004517189.1	scaffold2173	56594	GG	CC	CC	INTERGENIC			
SNP_103538_A_78853	NW_004517189.1	scaffold2173	78853	CC	TT	TT	INTERGENIC			
SNP_103539_A_78855	NW_004517189.1	scaffold2173	78855	TT	AA	AA	INTERGENIC			
SNP_103540_A_78857	NW_004517189.1	scaffold2173	78857	AA	CC	CC	INTERGENIC			
SNP_103541_A_80393	NW_004517189.1	scaffold2173	80393	AA	GG	GG	INTERGENIC			
SNP_103542_A_80425	NW_004517189.1	scaffold2173	80425	AA	GG	GG	INTERGENIC			
SNP_103543_A_80427	NW_004517189.1	scaffold2173	80427	AA	GG	GG	INTERGENIC			
SNP_103544_A_80433	NW_004517189.1	scaffold2173	80433	TT	CC	CC	INTERGENIC			
SNP_103545_A_80778	NW_004517189.1	scaffold2173	80778	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103546_A_84561	NW_004517189.1	scaffold2173	84561	TT	GG	GG	INTERGENIC			
SNP_103547_A_87158	NW_004517189.1	scaffold2173	87158	GG	AA	AA	INTERGENIC			
SNP_103548_A_87166	NW_004517189.1	scaffold2173	87166	GG	AA	AA	INTERGENIC			
SNP_103549_A_1177	NW_004517190.1	scaffold2174	1177	AA	CC	CC	INTERGENIC			
SNP_103550_A_6138	NW_004517192.1	scaffold2176	6138	AA	GG	GG	INTERGENIC			
SNP_103551_A_6352	NW_004517192.1	scaffold2176	6352	AA	TT	TT	INTERGENIC			
SNP_103552_A_6564	NW_004517192.1	scaffold2176	6564	TT	GG	GG	INTERGENIC			
SNP_103553_A_11232	NW_004517192.1	scaffold2176	11232	TT	AA	AA	INTERGENIC			
SNP_103554_A_24291	NW_004517192.1	scaffold2176	24291	GG	AA	AA	INTERGENIC			
SNP_103555_A_24906	NW_004517192.1	scaffold2176	24906	GG	TT	TT	INTERGENIC			
SNP_103556_A_26447	NW_004517192.1	scaffold2176	26447	GG	TT	TT	INTERGENIC			
SNP_103557_A_26600	NW_004517192.1	scaffold2176	26600	AA	GG	GG	INTERGENIC			
SNP_103558_A_27141	NW_004517192.1	scaffold2176	27141	CC	GG	GG	INTERGENIC			
SNP_103559_A_27196	NW_004517192.1	scaffold2176	27196	GG	AA	AA	INTERGENIC			
SNP_103560_A_27408	NW_004517192.1	scaffold2176	27408	CC	AA	AA	INTERGENIC			
SNP_103561_A_28909	NW_004517192.1	scaffold2176	28909	TT	AA	AA	INTERGENIC			
SNP_103562_A_28942	NW_004517192.1	scaffold2176	28942	CC	AA	AA	INTERGENIC			
SNP_103563_A_29076	NW_004517192.1	scaffold2176	29076	GG	AA	AA	INTERGENIC			
SNP_103564_A_1911	NW_004517193.1	scaffold2177	1911	TT	CC	CC	INTERGENIC			
SNP_103565_A_2034	NW_004517193.1	scaffold2177	2034	TT	AA	AA	INTERGENIC			
SNP_103566_A_2055	NW_004517193.1	scaffold2177	2055	TT	AA	AA	INTERGENIC			
SNP_103569_A_113	NW_004517195.1	scaffold2179	113	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103570_A_121	NW_004517195.1	scaffold2179	121	GG	AA	AA	INTERGENIC		
SNP_103571_A_441	NW_004517195.1	scaffold2179	441	TT	CC	CC	INTERGENIC		
SNP_103572_A_465	NW_004517195.1	scaffold2179	465	TT	CC	CC	INTERGENIC		
SNP_103573_A_513	NW_004517195.1	scaffold2179	513	CC	TT	TT	INTERGENIC		
SNP_103576_A_24584	NW_004517195.1	scaffold2179	24584	TT	CC	CC	INTERGENIC		
SNP_103577_A_24605	NW_004517195.1	scaffold2179	24605	TT	CC	CC	INTERGENIC		
SNP_103578_A_24613	NW_004517195.1	scaffold2179	24613	AA	GG	GG	INTERGENIC		
SNP_103579_A_24943	NW_004517195.1	scaffold2179	24943	CC	TT	TT	INTERGENIC		
SNP_103580_A_26252	NW_004517195.1	scaffold2179	26252	AA	GG	GG	INTERGENIC		
SNP_103581_A_26270	NW_004517195.1	scaffold2179	26270	AA	GG	GG	INTERGENIC		
SNP_103582_A_26273	NW_004517195.1	scaffold2179	26273	AA	GG	GG	INTERGENIC		
SNP_103583_A_26303	NW_004517195.1	scaffold2179	26303	AA	GG	GG	INTERGENIC		
SNP_103584_A_26321	NW_004517195.1	scaffold2179	26321	TT	CC	CC	INTERGENIC		
SNP_103585_A_26324	NW_004517195.1	scaffold2179	26324	GG	TT	TT	INTERGENIC		
SNP_103586_A_33466	NW_004517195.1	scaffold2179	33466	AA	GG	GG	SYNONYMOUS_CODING	101506409	uncharacterized LOC101506409
SNP_103587_A_35703	NW_004517195.1	scaffold2179	35703	AA	TT	TT	INTERGENIC		
SNP_103588_A_35730	NW_004517195.1	scaffold2179	35730	AA	GG	GG	INTERGENIC		
SNP_103589_A_35893	NW_004517195.1	scaffold2179	35893	AA	GG	GG	INTERGENIC		
SNP_103592_A_36022	NW_004517195.1	scaffold2179	36022	GG	AA	AA	INTERGENIC		
SNP_103593_A_36034	NW_004517195.1	scaffold2179	36034	TT	CC	CC	INTERGENIC		
SNP_103594_A_36044	NW_004517195.1	scaffold2179	36044	AA	GG	GG	INTERGENIC		
SNP_103596_A_36100	NW_004517195.1	scaffold2179	36100	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103597_A_36166	NW_004517195.1	scaffold2179	36166	AA	GG	GG	INTERGENIC		
SNP_103598_A_36177	NW_004517195.1	scaffold2179	36177	AA	GG	GG	INTERGENIC		
SNP_103599_A_36362	NW_004517195.1	scaffold2179	36362	AA	GG	GG	INTERGENIC		
SNP_103600_A_36371	NW_004517195.1	scaffold2179	36371	AA	GG	GG	INTERGENIC		
SNP_103601_A_36392	NW_004517195.1	scaffold2179	36392	CC	TT	TT	INTERGENIC		
SNP_103602_A_36466	NW_004517195.1	scaffold2179	36466	CC	TT	TT	INTERGENIC		
SNP_103603_A_36475	NW_004517195.1	scaffold2179	36475	TT	CC	CC	INTERGENIC		
SNP_103604_A_36517	NW_004517195.1	scaffold2179	36517	TT	CC	CC	INTERGENIC		
SNP_103605_A_54928	NW_004517195.1	scaffold2179	54928	AA	TT	TT	DRR	101505773	18.2 kDa class I heat shock protein-like
SNP_103606_A_57189	NW_004517195.1	scaffold2179	57189	TT	CC	CC	URR	101505773	18.2 kDa class I heat shock protein-like
SNP_103607_A_57265	NW_004517195.1	scaffold2179	57265	TT	CC	CC	URR	101505773	18.2 kDa class I heat shock protein-like
SNP_103608_A_57297	NW_004517195.1	scaffold2179	57297	AA	GG	GG	URR	101505773	18.2 kDa class I heat shock protein-like
SNP_103609_A_60789	NW_004517195.1	scaffold2179	60789	GG	AA	AA	INTERGENIC		
SNP_103610_A_94891	NW_004517195.1	scaffold2179	94891	TT	CC	CC	INTERGENIC		
SNP_103611_A_94903	NW_004517195.1	scaffold2179	94903	CC	TT	TT	INTERGENIC		
SNP_103612_A_128	NW_004517199.1	scaffold2183	128	AA	GG	GG	INTERGENIC		
SNP_103613_A_164	NW_004517199.1	scaffold2183	164	GG	AA	AA	INTERGENIC		
SNP_103614_A_173	NW_004517199.1	scaffold2183	173	CC	TT	TT	INTERGENIC		
SNP_103615_A_363	NW_004517199.1	scaffold2183	363	AA	GG	GG	INTERGENIC		
SNP_103616_A_378	NW_004517199.1	scaffold2183	378	TT	GG	GG	INTERGENIC		
SNP_103617_A_559	NW_004517199.1	scaffold2183	559	TT	CC	CC	INTERGENIC		
SNP_103618_A_623	NW_004517199.1	scaffold2183	623	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103619_A_650	NW_004517199.1	scaffold2183	650	AA	GG	GG	INTERGENIC			
SNP_103621_A_5934	NW_004517199.1	scaffold2183	5934	AA	GG	GG	INTERGENIC			
SNP_103622_A_6478	NW_004517199.1	scaffold2183	6478	CC	AA	AA	INTERGENIC			
SNP_103623_A_6727	NW_004517199.1	scaffold2183	6727	GG	CC	CC	INTERGENIC			
SNP_103624_A_6772	NW_004517199.1	scaffold2183	6772	TT	CC	CC	INTERGENIC			
SNP_103625_A_7213	NW_004517199.1	scaffold2183	7213	TT	CC	CC	INTERGENIC			
SNP_103626_A_12281	NW_004517199.1	scaffold2183	12281	GG	AA	AA	INTERGENIC			
SNP_103627_A_15907	NW_004517199.1	scaffold2183	15907	GG	TT	TT	INTERGENIC			
SNP_103628_A_16420	NW_004517199.1	scaffold2183	16420	AA	CC	CC	INTERGENIC			
SNP_103629_A_16796	NW_004517199.1	scaffold2183	16796	GG	AA	AA	INTERGENIC			
SNP_103630_A_18171	NW_004517199.1	scaffold2183	18171	AA	GG	GG	INTERGENIC			
SNP_103631_A_18189	NW_004517199.1	scaffold2183	18189	CC	TT	TT	INTERGENIC			
SNP_103632_A_19156	NW_004517199.1	scaffold2183	19156	GG	CC	CC	INTERGENIC			
SNP_103633_A_19201	NW_004517199.1	scaffold2183	19201	CC	TT	TT	INTERGENIC			
SNP_103634_A_19440	NW_004517199.1	scaffold2183	19440	GG	AA	AA	INTERGENIC			
SNP_103635_A_19500	NW_004517199.1	scaffold2183	19500	TT	AA	AA	INTERGENIC			
SNP_103636_A_19526	NW_004517199.1	scaffold2183	19526	AA	TT	TT	INTERGENIC			
SNP_103637_A_19625	NW_004517199.1	scaffold2183	19625	GG	TT	TT	INTERGENIC			
SNP_103638_A_19740	NW_004517199.1	scaffold2183	19740	AA	CC	CC	INTERGENIC			
SNP_103639_A_19774	NW_004517199.1	scaffold2183	19774	GG	AA	AA	INTERGENIC			
SNP_103641_A_19977	NW_004517199.1	scaffold2183	19977	CC	TT	TT	INTERGENIC			
SNP_103642_A_20103	NW_004517199.1	scaffold2183	20103	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103643_A_20164	NW_004517199.1	scaffold2183	20164	AA	GG	GG	INTERGENIC			
SNP_103644_A_20167	NW_004517199.1	scaffold2183	20167	GG	AA	AA	INTERGENIC			
SNP_103645_A_20170	NW_004517199.1	scaffold2183	20170	AA	CC	CC	INTERGENIC			
SNP_103646_A_20178	NW_004517199.1	scaffold2183	20178	CC	TT	TT	INTERGENIC			
SNP_103647_A_20359	NW_004517199.1	scaffold2183	20359	GG	AA	AA	INTERGENIC			
SNP_103648_A_23716	NW_004517199.1	scaffold2183	23716	CC	TT	TT	INTERGENIC			
SNP_103649_A_23721	NW_004517199.1	scaffold2183	23721	AA	CC	CC	INTERGENIC			
SNP_103650_A_23730	NW_004517199.1	scaffold2183	23730	AA	CC	CC	INTERGENIC			
SNP_103651_A_23757	NW_004517199.1	scaffold2183	23757	TT	CC	CC	INTERGENIC			
SNP_103652_A_23760	NW_004517199.1	scaffold2183	23760	TT	AA	AA	INTERGENIC			
SNP_103653_A_23762	NW_004517199.1	scaffold2183	23762	AA	TT	TT	INTERGENIC			
SNP_103654_A_23766	NW_004517199.1	scaffold2183	23766	AA	TT	TT	INTERGENIC			
SNP_103655_A_23796	NW_004517199.1	scaffold2183	23796	CC	GG	GG	INTERGENIC			
SNP_103656_A_23907	NW_004517199.1	scaffold2183	23907	GG	TT	TT	INTERGENIC			
SNP_103657_A_27852	NW_004517199.1	scaffold2183	27852	GG	AA	AA	INTERGENIC			
SNP_103658_A_28476	NW_004517199.1	scaffold2183	28476	TT	CC	CC	INTERGENIC			
SNP_103659_A_28514	NW_004517199.1	scaffold2183	28514	TT	AA	AA	INTERGENIC			
SNP_103660_A_30195	NW_004517199.1	scaffold2183	30195	CC	TT	TT	INTERGENIC			
SNP_103661_A_31807	NW_004517199.1	scaffold2183	31807	TT	AA	AA	INTERGENIC			
SNP_103662_A_31925	NW_004517199.1	scaffold2183	31925	TT	AA	AA	INTERGENIC			
SNP_103663_A_31972	NW_004517199.1	scaffold2183	31972	GG	AA	AA	INTERGENIC			
SNP_103664_A_32748	NW_004517199.1	scaffold2183	32748	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103665_A_32754	NW_004517199.1	scaffold2183	32754	GG	AA	AA	INTERGENIC			
SNP_103666_A_32935	NW_004517199.1	scaffold2183	32935	TT	CC	CC	INTERGENIC			
SNP_103667_A_33266	NW_004517199.1	scaffold2183	33266	CC	AA	AA	INTERGENIC			
SNP_103668_A_39170	NW_004517199.1	scaffold2183	39170	CC	TT	TT	INTERGENIC			
SNP_103669_A_39186	NW_004517199.1	scaffold2183	39186	GG	AA	AA	INTERGENIC			
SNP_103670_A_39407	NW_004517199.1	scaffold2183	39407	AA	CC	CC	INTERGENIC			
SNP_103671_A_40099	NW_004517199.1	scaffold2183	40099	GG	TT	TT	INTERGENIC			
SNP_103672_A_41263	NW_004517199.1	scaffold2183	41263	AA	GG	GG	INTERGENIC			
SNP_103673_A_41294	NW_004517199.1	scaffold2183	41294	AA	GG	GG	INTERGENIC			
SNP_103674_A_44006	NW_004517199.1	scaffold2183	44006	TT	GG	GG	INTERGENIC			
SNP_103675_A_44114	NW_004517199.1	scaffold2183	44114	TT	CC	CC	INTERGENIC			
SNP_103676_A_44178	NW_004517199.1	scaffold2183	44178	CC	TT	TT	INTERGENIC			
SNP_103677_A_44515	NW_004517199.1	scaffold2183	44515	CC	TT	TT	INTERGENIC			
SNP_103678_A_44606	NW_004517199.1	scaffold2183	44606	CC	TT	TT	INTERGENIC			
SNP_103679_A_46570	NW_004517199.1	scaffold2183	46570	TT	CC	CC	INTERGENIC			
SNP_103680_A_46656	NW_004517199.1	scaffold2183	46656	CC	TT	TT	INTERGENIC			
SNP_103681_A_46671	NW_004517199.1	scaffold2183	46671	AA	GG	GG	INTERGENIC			
SNP_103682_A_47671	NW_004517199.1	scaffold2183	47671	AA	GG	GG	INTERGENIC			
SNP_103683_A_47906	NW_004517199.1	scaffold2183	47906	CC	TT	TT	INTERGENIC			
SNP_103684_A_48092	NW_004517199.1	scaffold2183	48092	AA	GG	GG	INTERGENIC			
SNP_103685_A_48423	NW_004517199.1	scaffold2183	48423	AA	GG	GG	INTERGENIC			
SNP_103686_A_48424	NW_004517199.1	scaffold2183	48424	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103687_A_48709	NW_004517199.1	scaffold2183	48709	TT	GG	GG	INTERGENIC			
SNP_103688_A_48735	NW_004517199.1	scaffold2183	48735	CC	AA	AA	INTERGENIC			
SNP_103689_A_49792	NW_004517199.1	scaffold2183	49792	CC	AA	AA	INTERGENIC			
SNP_103690_A_52222	NW_004517199.1	scaffold2183	52222	AA	TT	TT	INTERGENIC			
SNP_103691_A_52289	NW_004517199.1	scaffold2183	52289	CC	TT	TT	INTERGENIC			
SNP_103692_A_59384	NW_004517199.1	scaffold2183	59384	TT	CC	CC	INTERGENIC			
SNP_103693_A_59424	NW_004517199.1	scaffold2183	59424	TT	AA	AA	INTERGENIC			
SNP_103694_A_63900	NW_004517199.1	scaffold2183	63900	GG	CC	CC	INTERGENIC			
SNP_103695_A_63926	NW_004517199.1	scaffold2183	63926	CC	GG	GG	INTERGENIC			
SNP_103696_A_64503	NW_004517199.1	scaffold2183	64503	CC	TT	TT	INTERGENIC			
SNP_103697_A_65062	NW_004517199.1	scaffold2183	65062	AA	GG	GG	INTERGENIC			
SNP_103698_A_65769	NW_004517199.1	scaffold2183	65769	AA	GG	GG	INTERGENIC			
SNP_103699_A_65794	NW_004517199.1	scaffold2183	65794	AA	GG	GG	INTERGENIC			
SNP_103700_A_65866	NW_004517199.1	scaffold2183	65866	CC	GG	GG	INTERGENIC			
SNP_103701_A_66047	NW_004517199.1	scaffold2183	66047	AA	TT	TT	INTERGENIC			
SNP_103702_A_66428	NW_004517199.1	scaffold2183	66428	AA	GG	GG	INTERGENIC			
SNP_103703_A_66469	NW_004517199.1	scaffold2183	66469	AA	GG	GG	INTERGENIC			
SNP_103704_A_66733	NW_004517199.1	scaffold2183	66733	AA	CC	CC	INTERGENIC			
SNP_103705_A_66800	NW_004517199.1	scaffold2183	66800	TT	AA	AA	INTERGENIC			
SNP_103706_A_67007	NW_004517199.1	scaffold2183	67007	GG	TT	TT	INTERGENIC			
SNP_103707_A_67052	NW_004517199.1	scaffold2183	67052	AA	GG	GG	INTERGENIC			
SNP_103708_A_67107	NW_004517199.1	scaffold2183	67107	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103709_A_67126	NW_004517199.1	scaffold2183	67126	AA	GG	GG	INTERGENIC			
SNP_103710_A_67268	NW_004517199.1	scaffold2183	67268	GG	AA	AA	INTERGENIC			
SNP_103711_A_67320	NW_004517199.1	scaffold2183	67320	CC	TT	TT	INTERGENIC			
SNP_103712_A_67385	NW_004517199.1	scaffold2183	67385	CC	TT	TT	INTERGENIC			
SNP_103714_A_67662	NW_004517199.1	scaffold2183	67662	TT	AA	AA	INTERGENIC			
SNP_103715_A_67677	NW_004517199.1	scaffold2183	67677	CC	AA	AA	INTERGENIC			
SNP_103716_A_67684	NW_004517199.1	scaffold2183	67684	AA	TT	TT	INTERGENIC			
SNP_103717_A_67699	NW_004517199.1	scaffold2183	67699	AA	GG	GG	INTERGENIC			
SNP_103718_A_67769	NW_004517199.1	scaffold2183	67769	CC	GG	GG	INTERGENIC			
SNP_103719_A_67902	NW_004517199.1	scaffold2183	67902	AA	GG	GG	INTERGENIC			
SNP_103720_A_67962	NW_004517199.1	scaffold2183	67962	AA	TT	TT	INTERGENIC			
SNP_103721_A_68000	NW_004517199.1	scaffold2183	68000	AA	TT	TT	INTERGENIC			
SNP_103722_A_68053	NW_004517199.1	scaffold2183	68053	TT	CC	CC	INTERGENIC			
SNP_103723_A_68095	NW_004517199.1	scaffold2183	68095	AA	GG	GG	INTERGENIC			
SNP_103724_A_68164	NW_004517199.1	scaffold2183	68164	GG	CC	CC	INTERGENIC			
SNP_103725_A_68238	NW_004517199.1	scaffold2183	68238	AA	GG	GG	INTERGENIC			
SNP_103726_A_68271	NW_004517199.1	scaffold2183	68271	GG	AA	AA	INTERGENIC			
SNP_103727_A_68276	NW_004517199.1	scaffold2183	68276	CC	TT	TT	INTERGENIC			
SNP_103728_A_68288	NW_004517199.1	scaffold2183	68288	CC	TT	TT	INTERGENIC			
SNP_103729_A_68350	NW_004517199.1	scaffold2183	68350	CC	GG	GG	INTERGENIC			
SNP_103730_A_68357	NW_004517199.1	scaffold2183	68357	AA	GG	GG	INTERGENIC			
SNP_103731_A_68384	NW_004517199.1	scaffold2183	68384	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103732_A_68510	NW_004517199.1	scaffold2183	68510	TT	AA	AA	INTERGENIC			
SNP_103733_A_68512	NW_004517199.1	scaffold2183	68512	CC	TT	TT	INTERGENIC			
SNP_103734_A_68521	NW_004517199.1	scaffold2183	68521	AA	GG	GG	INTERGENIC			
SNP_103735_A_68535	NW_004517199.1	scaffold2183	68535	GG	AA	AA	INTERGENIC			
SNP_103736_A_68599	NW_004517199.1	scaffold2183	68599	AA	GG	GG	INTERGENIC			
SNP_103737_A_68654	NW_004517199.1	scaffold2183	68654	AA	TT	TT	INTERGENIC			
SNP_103738_A_68808	NW_004517199.1	scaffold2183	68808	CC	AA	AA	INTERGENIC			
SNP_103739_A_68819	NW_004517199.1	scaffold2183	68819	AA	GG	GG	INTERGENIC			
SNP_103740_A_68828	NW_004517199.1	scaffold2183	68828	TT	AA	AA	INTERGENIC			
SNP_103741_A_68856	NW_004517199.1	scaffold2183	68856	CC	TT	TT	INTERGENIC			
SNP_103742_A_68881	NW_004517199.1	scaffold2183	68881	CC	TT	TT	INTERGENIC			
SNP_103743_A_69127	NW_004517199.1	scaffold2183	69127	TT	CC	CC	INTERGENIC			
SNP_103744_A_69142	NW_004517199.1	scaffold2183	69142	CC	TT	TT	INTERGENIC			
SNP_103745_A_69165	NW_004517199.1	scaffold2183	69165	GG	AA	AA	INTERGENIC			
SNP_103746_A_69166	NW_004517199.1	scaffold2183	69166	CC	GG	GG	INTERGENIC			
SNP_103747_A_69179	NW_004517199.1	scaffold2183	69179	AA	TT	TT	INTERGENIC			
SNP_103748_A_69225	NW_004517199.1	scaffold2183	69225	TT	GG	GG	INTERGENIC			
SNP_103749_A_69248	NW_004517199.1	scaffold2183	69248	TT	CC	CC	INTERGENIC			
SNP_103750_A_69331	NW_004517199.1	scaffold2183	69331	GG	CC	CC	INTERGENIC			
SNP_103751_A_69334	NW_004517199.1	scaffold2183	69334	AA	GG	GG	INTERGENIC			
SNP_103752_A_69430	NW_004517199.1	scaffold2183	69430	CC	TT	TT	INTERGENIC			
SNP_103753_A_69495	NW_004517199.1	scaffold2183	69495	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103754_A_69509	NW_004517199.1	scaffold2183	69509	TT	AA	AA	INTERGENIC			
SNP_103755_A_69539	NW_004517199.1	scaffold2183	69539	TT	CC	CC	INTERGENIC			
SNP_103756_A_69651	NW_004517199.1	scaffold2183	69651	CC	TT	TT	INTERGENIC			
SNP_103757_A_69657	NW_004517199.1	scaffold2183	69657	CC	TT	TT	INTERGENIC			
SNP_103758_A_69677	NW_004517199.1	scaffold2183	69677	AA	TT	TT	INTERGENIC			
SNP_103759_A_69688	NW_004517199.1	scaffold2183	69688	GG	AA	AA	INTERGENIC			
SNP_103760_A_69724	NW_004517199.1	scaffold2183	69724	GG	AA	AA	INTERGENIC			
SNP_103761_A_69814	NW_004517199.1	scaffold2183	69814	TT	CC	CC	INTERGENIC			
SNP_103762_A_69857	NW_004517199.1	scaffold2183	69857	TT	AA	AA	INTERGENIC			
SNP_103764_A_69926	NW_004517199.1	scaffold2183	69926	AA	GG	GG	INTERGENIC			
SNP_103765_A_69963	NW_004517199.1	scaffold2183	69963	CC	AA	AA	INTERGENIC			
SNP_103766_A_69978	NW_004517199.1	scaffold2183	69978	TT	CC	CC	INTERGENIC			
SNP_103768_A_70082	NW_004517199.1	scaffold2183	70082	AA	GG	GG	INTERGENIC			
SNP_103769_A_70140	NW_004517199.1	scaffold2183	70140	CC	TT	TT	INTERGENIC			
SNP_103770_A_70191	NW_004517199.1	scaffold2183	70191	CC	TT	TT	INTERGENIC			
SNP_103771_A_70192	NW_004517199.1	scaffold2183	70192	GG	AA	AA	INTERGENIC			
SNP_103772_A_70370	NW_004517199.1	scaffold2183	70370	CC	AA	AA	INTERGENIC			
SNP_103773_A_70388	NW_004517199.1	scaffold2183	70388	CC	TT	TT	INTERGENIC			
SNP_103774_A_70413	NW_004517199.1	scaffold2183	70413	GG	CC	CC	INTERGENIC			
SNP_103775_A_70455	NW_004517199.1	scaffold2183	70455	CC	TT	TT	INTERGENIC			
SNP_103776_A_70751	NW_004517199.1	scaffold2183	70751	GG	AA	AA	INTERGENIC			
SNP_103777_A_71151	NW_004517199.1	scaffold2183	71151	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103778_A_71937	NW_004517199.1	scaffold2183	71937	GG	CC	CC	INTERGENIC		
SNP_103779_A_71952	NW_004517199.1	scaffold2183	71952	TT	GG	GG	INTERGENIC		
SNP_103780_A_73957	NW_004517199.1	scaffold2183	73957	AA	TT	TT	INTERGENIC		
SNP_103781_A_74329	NW_004517199.1	scaffold2183	74329	GG	AA	AA	INTERGENIC		
SNP_103782_A_74392	NW_004517199.1	scaffold2183	74392	TT	CC	CC	INTERGENIC		
SNP_103783_A_74424	NW_004517199.1	scaffold2183	74424	GG	AA	AA	INTERGENIC		
SNP_103784_A_74425	NW_004517199.1	scaffold2183	74425	TT	GG	GG	INTERGENIC		
SNP_103785_A_74444	NW_004517199.1	scaffold2183	74444	AA	CC	CC	INTERGENIC		
SNP_103786_A_74532	NW_004517199.1	scaffold2183	74532	TT	CC	CC	INTERGENIC		
SNP_103787_A_75061	NW_004517199.1	scaffold2183	75061	AA	GG	GG	INTERGENIC		
SNP_103788_A_75077	NW_004517199.1	scaffold2183	75077	AA	TT	TT	INTERGENIC		
SNP_103789_A_75079	NW_004517199.1	scaffold2183	75079	AA	TT	TT	INTERGENIC		
SNP_103791_A_18454	NW_004517205.1	scaffold2192	18454	AA	GG	GG	INTERGENIC		
SNP_103792_A_28109	NW_004517205.1	scaffold2192	28109	AA	GG	GG	INTERGENIC		
SNP_103793_A_55891	NW_004517205.1	scaffold2192	55891	CC	TT	TT	INTRON	101507396	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103794_A_55953	NW_004517205.1	scaffold2192	55953	AA	TT	TT	INTRON	101507396	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103795_A_75180	NW_004517205.1	scaffold2192	75180	GG	TT	TT	INTERGENIC		
SNP_103796_A_91747	NW_004517205.1	scaffold2192	91747	CC	AA	AA	INTERGENIC		
SNP_103797_A_91748	NW_004517205.1	scaffold2192	91748	TT	GG	GG	INTERGENIC		
SNP_103798_A_107996	NW_004517205.1	scaffold2192	107996	GG	TT	TT	INTERGENIC		
SNP_103799_A_108089	NW_004517205.1	scaffold2192	108089	GG	CC	CC	INTERGENIC		
SNP_103800_A_108373	NW_004517205.1	scaffold2192	108373	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103801_A_108406	NW_004517205.1	scaffold2192	108406	GG	AA	AA	INTERGENIC		
SNP_103802_A_108424	NW_004517205.1	scaffold2192	108424	TT	CC	CC	INTERGENIC		
SNP_103803_A_108705	NW_004517205.1	scaffold2192	108705	TT	CC	CC	INTERGENIC		
SNP_103804_A_108912	NW_004517205.1	scaffold2192	108912	AA	TT	TT	INTERGENIC		
SNP_103805_A_108947	NW_004517205.1	scaffold2192	108947	TT	CC	CC	INTERGENIC		
SNP_103806_A_108951	NW_004517205.1	scaffold2192	108951	AA	GG	GG	INTERGENIC		
SNP_103807_A_108996	NW_004517205.1	scaffold2192	108996	TT	CC	CC	INTERGENIC		
SNP_103808_A_109272	NW_004517205.1	scaffold2192	109272	CC	TT	TT	INTERGENIC		
SNP_103809_A_111048	NW_004517205.1	scaffold2192	111048	CC	TT	TT	INTERGENIC		
SNP_103810_A_130859	NW_004517205.1	scaffold2192	130859	TT	GG	GG	INTERGENIC		
SNP_103811_A_153875	NW_004517205.1	scaffold2192	153875	TT	CC	CC	INTERGENIC		
SNP_103812_A_160825	NW_004517205.1	scaffold2192	160825	TT	CC	CC	INTERGENIC		
SNP_103813_A_160856	NW_004517205.1	scaffold2192	160856	GG	AA	AA	INTERGENIC		
SNP_103814_A_164000	NW_004517205.1	scaffold2192	164000	AA	TT	TT	INTERGENIC		
SNP_103815_A_170748	NW_004517205.1	scaffold2192	170748	CC	TT	TT	INTERGENIC		
SNP_103816_A_182729	NW_004517205.1	scaffold2192	182729	TT	AA	AA	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103817_A_182740	NW_004517205.1	scaffold2192	182740	TT	AA	AA	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103818_A_182757	NW_004517205.1	scaffold2192	182757	GG	AA	AA	SYNONYMOUS_CODING	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103819_A_182765	NW_004517205.1	scaffold2192	182765	TT	CC	CC	NON_SYNONYMOUS_CODING	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103820_A_182777	NW_004517205.1	scaffold2192	182777	TT	CC	CC	NON_SYNONYMOUS_CODING	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103821_A_182823	NW_004517205.1	scaffold2192	182823	TT	CC	CC	SPLICE_SITE_REGION	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103822_A_182891	NW_004517205.1	scaffold2192	182891	AA	CC	CC	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_103823_A_182953	NW_004517205.1	scaffold2192	182953	GG	AA	AA	SYNONYMOUS_CODING	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103824_A_182965	NW_004517205.1	scaffold2192	182965	TT	CC	CC	SPLICE_SITE_REGION	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103825_A_182997	NW_004517205.1	scaffold2192	182997	AA	TT	TT	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103826_A_183109	NW_004517205.1	scaffold2192	183109	GG	TT	TT	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103827_A_183117	NW_004517205.1	scaffold2192	183117	CC	AA	AA	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103828_A_183170	NW_004517205.1	scaffold2192	183170	TT	CC	CC	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103829_A_183188	NW_004517205.1	scaffold2192	183188	AA	GG	GG	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103830_A_183194	NW_004517205.1	scaffold2192	183194	CC	TT	TT	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103831_A_183216	NW_004517205.1	scaffold2192	183216	CC	AA	AA	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103832_A_183220	NW_004517205.1	scaffold2192	183220	TT	CC	CC	INTRON	101508975	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_103833_A_195896	NW_004517205.1	scaffold2192	195896	GG	AA	AA	INTERGENIC		
SNP_103834_A_217447	NW_004517205.1	scaffold2192	217447	AA	GG	GG	INTERGENIC		
SNP_103835_A_218425	NW_004517205.1	scaffold2192	218425	GG	AA	AA	INTERGENIC		
SNP_103836_A_3006	NW_004517206.1	scaffold2193	3006	GG	TT	TT	INTERGENIC		
SNP_103837_A_12550	NW_004517206.1	scaffold2193	12550	AA	CC	CC	INTERGENIC		
SNP_103838_A_12559	NW_004517206.1	scaffold2193	12559	GG	TT	TT	INTERGENIC		
SNP_103839_A_12826	NW_004517206.1	scaffold2193	12826	GG	AA	AA	INTERGENIC		
SNP_103840_A_12845	NW_004517206.1	scaffold2193	12845	CC	TT	TT	INTERGENIC		
SNP_103841_A_13003	NW_004517206.1	scaffold2193	13003	CC	GG	GG	INTERGENIC		
SNP_103842_A_13085	NW_004517206.1	scaffold2193	13085	TT	CC	CC	INTERGENIC		
SNP_103843_A_13118	NW_004517206.1	scaffold2193	13118	AA	CC	CC	INTERGENIC		
SNP_103844_A_31259	NW_004517206.1	scaffold2193	31259	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103845_A_31407	NW_004517206.1	scaffold2193	31407	TT	GG	GG	INTERGENIC			
SNP_103846_A_31478	NW_004517206.1	scaffold2193	31478	AA	GG	GG	INTERGENIC			
SNP_103847_A_31490	NW_004517206.1	scaffold2193	31490	TT	GG	GG	INTERGENIC			
SNP_103849_A_31702	NW_004517206.1	scaffold2193	31702	TT	CC	CC	INTERGENIC			
SNP_103850_A_31771	NW_004517206.1	scaffold2193	31771	CC	TT	TT	INTERGENIC			
SNP_103851_A_31793	NW_004517206.1	scaffold2193	31793	GG	TT	TT	INTERGENIC			
SNP_103852_A_31804	NW_004517206.1	scaffold2193	31804	AA	GG	GG	INTERGENIC			
SNP_103853_A_31864	NW_004517206.1	scaffold2193	31864	AA	GG	GG	INTERGENIC			
SNP_103854_A_51109	NW_004517206.1	scaffold2193	51109	GG	AA	AA	INTERGENIC			
SNP_103855_A_51138	NW_004517206.1	scaffold2193	51138	CC	GG	GG	INTERGENIC			
SNP_103856_A_51181	NW_004517206.1	scaffold2193	51181	TT	CC	CC	INTERGENIC			
SNP_103857_A_52494	NW_004517206.1	scaffold2193	52494	TT	CC	CC	INTERGENIC			
SNP_103858_A_55520	NW_004517206.1	scaffold2193	55520	TT	CC	CC	INTERGENIC			
SNP_103859_A_58867	NW_004517206.1	scaffold2193	58867	TT	AA	AA	INTERGENIC			
SNP_103860_A_59046	NW_004517206.1	scaffold2193	59046	AA	GG	GG	INTERGENIC			
SNP_103861_A_59154	NW_004517206.1	scaffold2193	59154	GG	TT	TT	INTERGENIC			
SNP_103862_A_59432	NW_004517206.1	scaffold2193	59432	AA	GG	GG	INTERGENIC			
SNP_103863_A_59853	NW_004517206.1	scaffold2193	59853	CC	TT	TT	INTERGENIC			
SNP_103864_A_123605	NW_004517206.1	scaffold2193	123605	AA	GG	GG	INTERGENIC			
SNP_103865_A_123626	NW_004517206.1	scaffold2193	123626	TT	AA	AA	INTERGENIC			
SNP_103866_A_123632	NW_004517206.1	scaffold2193	123632	AA	GG	GG	INTERGENIC			
SNP_103867_A_123682	NW_004517206.1	scaffold2193	123682	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103868_A_123685	NW_004517206.1	scaffold2193	123685	TT	CC	CC	INTERGENIC			
SNP_103869_A_124811	NW_004517206.1	scaffold2193	124811	AA	GG	GG	INTERGENIC			
SNP_103870_A_128010	NW_004517206.1	scaffold2193	128010	GG	AA	AA	INTERGENIC			
SNP_103871_A_128077	NW_004517206.1	scaffold2193	128077	CC	TT	TT	INTERGENIC			
SNP_103873_A_164741	NW_004517206.1	scaffold2193	164741	CC	TT	TT	INTERGENIC			
SNP_103874_A_165015	NW_004517206.1	scaffold2193	165015	CC	AA	AA	INTERGENIC			
SNP_103875_A_165028	NW_004517206.1	scaffold2193	165028	CC	AA	AA	INTERGENIC			
SNP_103876_A_165245	NW_004517206.1	scaffold2193	165245	AA	CC	CC	INTERGENIC			
SNP_103877_A_1064	NW_004517207.1	scaffold2194	1064	GG	TT	TT	INTERGENIC			
SNP_103878_A_9287	NW_004517207.1	scaffold2194	9287	TT	GG	GG	INTERGENIC			
SNP_103879_A_12762	NW_004517207.1	scaffold2194	12762	CC	GG	GG	INTERGENIC			
SNP_103880_A_19402	NW_004517207.1	scaffold2194	19402	TT	CC	CC	INTERGENIC			
SNP_103881_A_19409	NW_004517207.1	scaffold2194	19409	GG	AA	AA	INTERGENIC			
SNP_103882_A_19416	NW_004517207.1	scaffold2194	19416	TT	CC	CC	INTERGENIC			
SNP_103883_A_24099	NW_004517207.1	scaffold2194	24099	GG	TT	TT	INTERGENIC			
SNP_103884_A_24963	NW_004517207.1	scaffold2194	24963	AA	GG	GG	INTERGENIC			
SNP_103885_A_26469	NW_004517207.1	scaffold2194	26469	CC	TT	TT	INTERGENIC			
SNP_103886_A_26508	NW_004517207.1	scaffold2194	26508	TT	GG	GG	INTERGENIC			
SNP_103888_A_736	NW_004517208.1	scaffold2195	736	TT	AA	AA	INTERGENIC			
SNP_103889_A_1584	NW_004517208.1	scaffold2195	1584	TT	CC	CC	INTERGENIC			
SNP_103890_A_1590	NW_004517208.1	scaffold2195	1590	TT	CC	CC	INTERGENIC			
SNP_103891_A_1591	NW_004517208.1	scaffold2195	1591	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103893_A_1975	NW_004517208.1	scaffold2195	1975	GG	AA	AA	INTERGENIC			
SNP_103894_A_1982	NW_004517208.1	scaffold2195	1982	GG	TT	TT	INTERGENIC			
SNP_103895_A_2062	NW_004517208.1	scaffold2195	2062	GG	AA	AA	INTERGENIC			
SNP_103896_A_2066	NW_004517208.1	scaffold2195	2066	AA	CC	CC	INTERGENIC			
SNP_103897_A_909	NW_004517210.1	scaffold2199	909	AA	GG	GG	INTERGENIC			
SNP_103898_A_6963	NW_004517214.1	scaffold2203	6963	TT	CC	CC	INTERGENIC			
SNP_103899_A_727	NW_004517215.1	scaffold2205	727	AA	GG	GG	INTERGENIC			
SNP_103900_A_1028	NW_004517215.1	scaffold2205	1028	TT	GG	GG	INTERGENIC			
SNP_103901_A_1047	NW_004517215.1	scaffold2205	1047	AA	GG	GG	INTERGENIC			
SNP_103902_A_3374	NW_004517215.1	scaffold2205	3374	GG	CC	CC	INTERGENIC			
SNP_103903_A_3539	NW_004517215.1	scaffold2205	3539	AA	GG	GG	INTERGENIC			
SNP_103904_A_3550	NW_004517215.1	scaffold2205	3550	AA	CC	CC	INTERGENIC			
SNP_103905_A_3551	NW_004517215.1	scaffold2205	3551	GG	AA	AA	INTERGENIC			
SNP_103906_A_10233	NW_004517215.1	scaffold2205	10233	TT	GG	GG	INTERGENIC			
SNP_103907_A_10487	NW_004517215.1	scaffold2205	10487	TT	GG	GG	INTERGENIC			
SNP_103908_A_10618	NW_004517215.1	scaffold2205	10618	TT	AA	AA	INTERGENIC			
SNP_103909_A_21259	NW_004517215.1	scaffold2205	21259	AA	TT	TT	INTERGENIC			
SNP_103910_A_23801	NW_004517215.1	scaffold2205	23801	CC	TT	TT	INTERGENIC			
SNP_103911_A_24159	NW_004517215.1	scaffold2205	24159	GG	AA	AA	INTERGENIC			
SNP_103912_A_24164	NW_004517215.1	scaffold2205	24164	AA	TT	TT	INTERGENIC			
SNP_103913_A_24194	NW_004517215.1	scaffold2205	24194	CC	TT	TT	INTERGENIC			
SNP_103914_A_24848	NW_004517215.1	scaffold2205	24848	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103915_A_24849	NW_004517215.1	scaffold2205	24849	AA	GG	GG	INTERGENIC			
SNP_103916_A_27556	NW_004517215.1	scaffold2205	27556	GG	CC	CC	INTERGENIC			
SNP_103917_A_36991	NW_004517215.1	scaffold2205	36991	CC	TT	TT	INTERGENIC			
SNP_103918_A_37805	NW_004517215.1	scaffold2205	37805	AA	TT	TT	INTERGENIC			
SNP_103919_A_37827	NW_004517215.1	scaffold2205	37827	AA	CC	CC	INTERGENIC			
SNP_103921_A_38136	NW_004517215.1	scaffold2205	38136	AA	TT	TT	INTERGENIC			
SNP_103922_A_38229	NW_004517215.1	scaffold2205	38229	TT	CC	CC	INTERGENIC			
SNP_103923_A_38409	NW_004517215.1	scaffold2205	38409	CC	GG	GG	INTERGENIC			
SNP_103924_A_38959	NW_004517215.1	scaffold2205	38959	TT	GG	GG	INTERGENIC			
SNP_103925_A_43534	NW_004517215.1	scaffold2205	43534	AA	CC	CC	INTERGENIC			
SNP_103926_A_48027	NW_004517215.1	scaffold2205	48027	GG	AA	AA	INTERGENIC			
SNP_103927_A_48440	NW_004517215.1	scaffold2205	48440	CC	TT	TT	INTERGENIC			
SNP_103928_A_48458	NW_004517215.1	scaffold2205	48458	AA	TT	TT	INTERGENIC			
SNP_103929_A_48485	NW_004517215.1	scaffold2205	48485	AA	GG	GG	INTERGENIC			
SNP_103930_A_48679	NW_004517215.1	scaffold2205	48679	CC	TT	TT	INTERGENIC			
SNP_103931_A_48756	NW_004517215.1	scaffold2205	48756	AA	GG	GG	INTERGENIC			
SNP_103932_A_48860	NW_004517215.1	scaffold2205	48860	GG	AA	AA	INTERGENIC			
SNP_103933_A_49044	NW_004517215.1	scaffold2205	49044	CC	GG	GG	INTERGENIC			
SNP_103934_A_49070	NW_004517215.1	scaffold2205	49070	TT	CC	CC	INTERGENIC			
SNP_103935_A_49093	NW_004517215.1	scaffold2205	49093	TT	CC	CC	INTERGENIC			
SNP_103936_A_49096	NW_004517215.1	scaffold2205	49096	TT	CC	CC	INTERGENIC			
SNP_103938_A_49167	NW_004517215.1	scaffold2205	49167	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103939_A_49205	NW_004517215.1	scaffold2205	49205	CC	AA	AA	INTERGENIC			
SNP_103940_A_49476	NW_004517215.1	scaffold2205	49476	AA	TT	TT	INTERGENIC			
SNP_103942_A_669	NW_004517217.1	scaffold2207	669	CC	GG	GG	INTERGENIC			
SNP_103943_A_711	NW_004517217.1	scaffold2207	711	TT	AA	AA	INTERGENIC			
SNP_103944_A_715	NW_004517217.1	scaffold2207	715	TT	AA	AA	INTERGENIC			
SNP_103945_A_786	NW_004517217.1	scaffold2207	786	GG	CC	CC	INTERGENIC			
SNP_103946_A_824	NW_004517217.1	scaffold2207	824	AA	GG	GG	INTERGENIC			
SNP_103947_A_830	NW_004517217.1	scaffold2207	830	GG	TT	TT	INTERGENIC			
SNP_103948_A_834	NW_004517217.1	scaffold2207	834	CC	TT	TT	INTERGENIC			
SNP_103949_A_835	NW_004517217.1	scaffold2207	835	AA	GG	GG	INTERGENIC			
SNP_103950_A_1056	NW_004517217.1	scaffold2207	1056	TT	CC	CC	INTERGENIC			
SNP_103951_A_1929	NW_004517217.1	scaffold2207	1929	GG	AA	AA	INTERGENIC			
SNP_103952_A_4745	NW_004517218.1	scaffold2208	4745	TT	CC	CC	INTERGENIC			
SNP_103953_A_4805	NW_004517218.1	scaffold2208	4805	GG	AA	AA	INTERGENIC			
SNP_103954_A_5008	NW_004517218.1	scaffold2208	5008	TT	CC	CC	INTERGENIC			
SNP_103955_A_5278	NW_004517218.1	scaffold2208	5278	CC	TT	TT	INTERGENIC			
SNP_103956_A_5292	NW_004517218.1	scaffold2208	5292	TT	GG	GG	INTERGENIC			
SNP_103957_A_5943	NW_004517218.1	scaffold2208	5943	GG	CC	CC	INTERGENIC			
SNP_103958_A_5955	NW_004517218.1	scaffold2208	5955	CC	AA	AA	INTERGENIC			
SNP_103959_A_6102	NW_004517218.1	scaffold2208	6102	AA	GG	GG	INTERGENIC			
SNP_103960_A_6104	NW_004517218.1	scaffold2208	6104	CC	TT	TT	INTERGENIC			
SNP_103961_A_6187	NW_004517218.1	scaffold2208	6187	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103962_A_6371	NW_004517218.1	scaffold2208	6371	TT	AA	AA	INTERGENIC			
SNP_103963_A_6712	NW_004517218.1	scaffold2208	6712	TT	CC	CC	INTERGENIC			
SNP_103964_A_6907	NW_004517218.1	scaffold2208	6907	AA	GG	GG	INTERGENIC			
SNP_103965_A_7089	NW_004517218.1	scaffold2208	7089	GG	CC	CC	INTERGENIC			
SNP_103967_A_7192	NW_004517218.1	scaffold2208	7192	GG	CC	CC	INTERGENIC			
SNP_103968_A_7200	NW_004517218.1	scaffold2208	7200	TT	GG	GG	INTERGENIC			
SNP_103969_A_8114	NW_004517218.1	scaffold2208	8114	AA	CC	CC	INTERGENIC			
SNP_103970_A_8289	NW_004517218.1	scaffold2208	8289	AA	TT	TT	INTERGENIC			
SNP_103971_A_8352	NW_004517218.1	scaffold2208	8352	CC	TT	TT	INTERGENIC			
SNP_103972_A_8432	NW_004517218.1	scaffold2208	8432	AA	CC	CC	INTERGENIC			
SNP_103973_A_8447	NW_004517218.1	scaffold2208	8447	TT	CC	CC	INTERGENIC			
SNP_103974_A_9424	NW_004517218.1	scaffold2208	9424	TT	AA	AA	INTERGENIC			
SNP_103975_A_9693	NW_004517218.1	scaffold2208	9693	AA	CC	CC	INTERGENIC			
SNP_103976_A_9893	NW_004517218.1	scaffold2208	9893	GG	TT	TT	INTERGENIC			
SNP_103977_A_9986	NW_004517218.1	scaffold2208	9986	GG	AA	AA	INTERGENIC			
SNP_103978_A_9994	NW_004517218.1	scaffold2208	9994	AA	CC	CC	INTERGENIC			
SNP_103979_A_10099	NW_004517218.1	scaffold2208	10099	CC	TT	TT	INTERGENIC			
SNP_103981_A_10287	NW_004517218.1	scaffold2208	10287	TT	AA	AA	INTERGENIC			
SNP_103982_A_10298	NW_004517218.1	scaffold2208	10298	TT	CC	CC	INTERGENIC			
SNP_103983_A_10470	NW_004517218.1	scaffold2208	10470	CC	AA	AA	INTERGENIC			
SNP_103984_A_10560	NW_004517218.1	scaffold2208	10560	CC	GG	GG	INTERGENIC			
SNP_103985_A_16019	NW_004517218.1	scaffold2208	16019	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_103986_A_16561	NW_004517218.1	scaffold2208	16561	AA	GG	GG	INTERGENIC			
SNP_103987_A_19085	NW_004517218.1	scaffold2208	19085	TT	CC	CC	INTERGENIC			
SNP_103988_A_19687	NW_004517218.1	scaffold2208	19687	AA	CC	CC	INTERGENIC			
SNP_103989_A_19894	NW_004517218.1	scaffold2208	19894	AA	GG	GG	INTERGENIC			
SNP_103991_A_20387	NW_004517218.1	scaffold2208	20387	AA	TT	TT	INTERGENIC			
SNP_103992_A_20798	NW_004517218.1	scaffold2208	20798	GG	TT	TT	INTERGENIC			
SNP_103993_A_20929	NW_004517218.1	scaffold2208	20929	AA	GG	GG	INTERGENIC			
SNP_103994_A_20963	NW_004517218.1	scaffold2208	20963	TT	AA	AA	INTERGENIC			
SNP_103995_A_21019	NW_004517218.1	scaffold2208	21019	TT	CC	CC	INTERGENIC			
SNP_103996_A_21036	NW_004517218.1	scaffold2208	21036	TT	AA	AA	INTERGENIC			
SNP_103997_A_21037	NW_004517218.1	scaffold2208	21037	AA	CC	CC	INTERGENIC			
SNP_103998_A_21263	NW_004517218.1	scaffold2208	21263	CC	AA	AA	INTERGENIC			
SNP_103999_A_21264	NW_004517218.1	scaffold2208	21264	CC	TT	TT	INTERGENIC			
SNP_104000_A_21411	NW_004517218.1	scaffold2208	21411	GG	AA	AA	INTERGENIC			
SNP_104001_A_21484	NW_004517218.1	scaffold2208	21484	TT	CC	CC	INTERGENIC			
SNP_104002_A_21637	NW_004517218.1	scaffold2208	21637	GG	AA	AA	INTERGENIC			
SNP_104003_A_23889	NW_004517218.1	scaffold2208	23889	GG	AA	AA	INTERGENIC			
SNP_104004_A_27773	NW_004517218.1	scaffold2208	27773	GG	TT	TT	INTERGENIC			
SNP_104005_A_232	NW_004517219.1	scaffold2209	232	GG	TT	TT	INTERGENIC			
SNP_104006_A_64	NW_004517220.1	scaffold2210	64	AA	TT	TT	INTERGENIC			
SNP_104007_A_434	NW_004517220.1	scaffold2210	434	CC	TT	TT	INTERGENIC			
SNP_104008_A_1236	NW_004517220.1	scaffold2210	1236	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104009_A_7205	NW_004517220.1	scaffold2210	7205	GG	AA	AA	INTERGENIC			
SNP_104010_A_7551	NW_004517220.1	scaffold2210	7551	GG	AA	AA	INTERGENIC			
SNP_104011_A_7654	NW_004517220.1	scaffold2210	7654	AA	GG	GG	INTERGENIC			
SNP_104012_A_7742	NW_004517220.1	scaffold2210	7742	GG	CC	CC	INTERGENIC			
SNP_104013_A_8048	NW_004517220.1	scaffold2210	8048	TT	GG	GG	INTERGENIC			
SNP_104014_A_8079	NW_004517220.1	scaffold2210	8079	TT	AA	AA	INTERGENIC			
SNP_104015_A_8122	NW_004517220.1	scaffold2210	8122	TT	CC	CC	INTERGENIC			
SNP_104016_A_15011	NW_004517220.1	scaffold2210	15011	GG	TT	TT	INTERGENIC			
SNP_104017_A_15142	NW_004517220.1	scaffold2210	15142	AA	GG	GG	INTERGENIC			
SNP_104019_A_15240	NW_004517220.1	scaffold2210	15240	AA	CC	CC	INTERGENIC			
SNP_104020_A_15281	NW_004517220.1	scaffold2210	15281	AA	GG	GG	INTERGENIC			
SNP_104021_A_15498	NW_004517220.1	scaffold2210	15498	TT	CC	CC	INTERGENIC			
SNP_104022_A_22315	NW_004517220.1	scaffold2210	22315	AA	GG	GG	INTERGENIC			
SNP_104023_A_22317	NW_004517220.1	scaffold2210	22317	AA	TT	TT	INTERGENIC			
SNP_104024_A_22593	NW_004517220.1	scaffold2210	22593	CC	TT	TT	INTERGENIC			
SNP_104025_A_22713	NW_004517220.1	scaffold2210	22713	CC	TT	TT	INTERGENIC			
SNP_104026_A_22716	NW_004517220.1	scaffold2210	22716	TT	GG	GG	INTERGENIC			
SNP_104027_A_22805	NW_004517220.1	scaffold2210	22805	GG	AA	AA	INTERGENIC			
SNP_104028_A_22850	NW_004517220.1	scaffold2210	22850	CC	GG	GG	INTERGENIC			
SNP_104029_A_22909	NW_004517220.1	scaffold2210	22909	CC	TT	TT	INTERGENIC			
SNP_104030_A_22979	NW_004517220.1	scaffold2210	22979	AA	GG	GG	INTERGENIC			
SNP_104031_A_22982	NW_004517220.1	scaffold2210	22982	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104032_A_23125	NW_004517220.1	scaffold2210	23125	GG	AA	AA	INTERGENIC			
SNP_104033_A_23147	NW_004517220.1	scaffold2210	23147	TT	AA	AA	INTERGENIC			
SNP_104034_A_23152	NW_004517220.1	scaffold2210	23152	GG	CC	CC	INTERGENIC			
SNP_104035_A_27831	NW_004517220.1	scaffold2210	27831	TT	CC	CC	INTERGENIC			
SNP_104036_A_27838	NW_004517220.1	scaffold2210	27838	AA	CC	CC	INTERGENIC			
SNP_104037_A_27940	NW_004517220.1	scaffold2210	27940	CC	GG	GG	INTERGENIC			
SNP_104038_A_28711	NW_004517220.1	scaffold2210	28711	AA	TT	TT	INTERGENIC			
SNP_104039_A_28870	NW_004517220.1	scaffold2210	28870	CC	TT	TT	INTERGENIC			
SNP_104040_A_31289	NW_004517220.1	scaffold2210	31289	AA	GG	GG	INTERGENIC			
SNP_104041_A_31348	NW_004517220.1	scaffold2210	31348	AA	CC	CC	INTERGENIC			
SNP_104042_A_31383	NW_004517220.1	scaffold2210	31383	AA	TT	TT	INTERGENIC			
SNP_104043_A_31397	NW_004517220.1	scaffold2210	31397	AA	GG	GG	INTERGENIC			
SNP_104044_A_31439	NW_004517220.1	scaffold2210	31439	CC	AA	AA	INTERGENIC			
SNP_104045_A_31451	NW_004517220.1	scaffold2210	31451	TT	GG	GG	INTERGENIC			
SNP_104046_A_31456	NW_004517220.1	scaffold2210	31456	CC	GG	GG	INTERGENIC			
SNP_104047_A_31533	NW_004517220.1	scaffold2210	31533	TT	CC	CC	INTERGENIC			
SNP_104048_A_31555	NW_004517220.1	scaffold2210	31555	TT	AA	AA	INTERGENIC			
SNP_104049_A_34687	NW_004517220.1	scaffold2210	34687	AA	CC	CC	INTERGENIC			
SNP_104050_A_34704	NW_004517220.1	scaffold2210	34704	GG	TT	TT	INTERGENIC			
SNP_104051_A_35034	NW_004517220.1	scaffold2210	35034	AA	GG	GG	INTERGENIC			
SNP_104052_A_36016	NW_004517220.1	scaffold2210	36016	GG	AA	AA	INTERGENIC			
SNP_104053_A_36082	NW_004517220.1	scaffold2210	36082	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104055_A_36207	NW_004517220.1	scaffold2210	36207	TT	AA	AA	INTERGENIC			
SNP_104056_A_36381	NW_004517220.1	scaffold2210	36381	TT	GG	GG	INTERGENIC			
SNP_104057_A_36415	NW_004517220.1	scaffold2210	36415	CC	TT	TT	INTERGENIC			
SNP_104058_A_42034	NW_004517220.1	scaffold2210	42034	CC	TT	TT	INTERGENIC			
SNP_104059_A_47413	NW_004517220.1	scaffold2210	47413	AA	CC	CC	INTERGENIC			
SNP_104060_A_47429	NW_004517220.1	scaffold2210	47429	TT	CC	CC	INTERGENIC			
SNP_104061_A_47449	NW_004517220.1	scaffold2210	47449	AA	GG	GG	INTERGENIC			
SNP_104062_A_55641	NW_004517220.1	scaffold2210	55641	AA	TT	TT	INTERGENIC			
SNP_104063_A_55647	NW_004517220.1	scaffold2210	55647	AA	CC	CC	INTERGENIC			
SNP_104064_A_55649	NW_004517220.1	scaffold2210	55649	AA	CC	CC	INTERGENIC			
SNP_104065_A_55664	NW_004517220.1	scaffold2210	55664	AA	GG	GG	INTERGENIC			
SNP_104066_A_55668	NW_004517220.1	scaffold2210	55668	AA	TT	TT	INTERGENIC			
SNP_104067_A_55817	NW_004517220.1	scaffold2210	55817	AA	GG	GG	INTERGENIC			
SNP_104068_A_55922	NW_004517220.1	scaffold2210	55922	AA	CC	CC	INTERGENIC			
SNP_104069_A_55984	NW_004517220.1	scaffold2210	55984	TT	AA	AA	INTERGENIC			
SNP_104070_A_57307	NW_004517220.1	scaffold2210	57307	TT	AA	AA	INTERGENIC			
SNP_104071_A_57308	NW_004517220.1	scaffold2210	57308	AA	CC	CC	INTERGENIC			
SNP_104072_A_57331	NW_004517220.1	scaffold2210	57331	TT	CC	CC	INTERGENIC			
SNP_104073_A_57352	NW_004517220.1	scaffold2210	57352	CC	TT	TT	INTERGENIC			
SNP_104074_A_57416	NW_004517220.1	scaffold2210	57416	CC	AA	AA	INTERGENIC			
SNP_104075_A_57543	NW_004517220.1	scaffold2210	57543	GG	AA	AA	INTERGENIC			
SNP_104076_A_57579	NW_004517220.1	scaffold2210	57579	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104077_A_57645	NW_004517220.1	scaffold2210	57645	AA	GG	GG	INTERGENIC			
SNP_104078_A_57682	NW_004517220.1	scaffold2210	57682	TT	GG	GG	INTERGENIC			
SNP_104079_A_57953	NW_004517220.1	scaffold2210	57953	AA	GG	GG	INTERGENIC			
SNP_104080_A_57961	NW_004517220.1	scaffold2210	57961	TT	AA	AA	INTERGENIC			
SNP_104081_A_58008	NW_004517220.1	scaffold2210	58008	AA	GG	GG	INTERGENIC			
SNP_104082_A_60143	NW_004517220.1	scaffold2210	60143	TT	GG	GG	INTERGENIC			
SNP_104083_A_60177	NW_004517220.1	scaffold2210	60177	AA	GG	GG	INTERGENIC			
SNP_104084_A_60184	NW_004517220.1	scaffold2210	60184	AA	GG	GG	INTERGENIC			
SNP_104085_A_60894	NW_004517220.1	scaffold2210	60894	GG	AA	AA	INTERGENIC			
SNP_104086_A_60897	NW_004517220.1	scaffold2210	60897	AA	GG	GG	INTERGENIC			
SNP_104087_A_61219	NW_004517220.1	scaffold2210	61219	CC	GG	GG	INTERGENIC			
SNP_104088_A_62567	NW_004517220.1	scaffold2210	62567	TT	AA	AA	INTERGENIC			
SNP_104089_A_62879	NW_004517220.1	scaffold2210	62879	AA	CC	CC	INTERGENIC			
SNP_104090_A_63018	NW_004517220.1	scaffold2210	63018	GG	TT	TT	INTERGENIC			
SNP_104091_A_63171	NW_004517220.1	scaffold2210	63171	TT	CC	CC	INTERGENIC			
SNP_104092_A_63262	NW_004517220.1	scaffold2210	63262	GG	AA	AA	INTERGENIC			
SNP_104093_A_63789	NW_004517220.1	scaffold2210	63789	CC	TT	TT	INTERGENIC			
SNP_104094_A_63802	NW_004517220.1	scaffold2210	63802	TT	CC	CC	INTERGENIC			
SNP_104095_A_65428	NW_004517220.1	scaffold2210	65428	AA	GG	GG	INTERGENIC			
SNP_104096_A_65462	NW_004517220.1	scaffold2210	65462	GG	CC	CC	INTERGENIC			
SNP_104097_A_65672	NW_004517220.1	scaffold2210	65672	TT	CC	CC	INTERGENIC			
SNP_104098_A_65684	NW_004517220.1	scaffold2210	65684	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104099_A_65748	NW_004517220.1	scaffold2210	65748	TT	GG	GG	INTERGENIC			
SNP_104100_A_65998	NW_004517220.1	scaffold2210	65998	TT	CC	CC	INTERGENIC			
SNP_104101_A_66038	NW_004517220.1	scaffold2210	66038	TT	AA	AA	INTERGENIC			
SNP_104102_A_66076	NW_004517220.1	scaffold2210	66076	GG	AA	AA	INTERGENIC			
SNP_104103_A_66083	NW_004517220.1	scaffold2210	66083	GG	CC	CC	INTERGENIC			
SNP_104104_A_66094	NW_004517220.1	scaffold2210	66094	GG	TT	TT	INTERGENIC			
SNP_104105_A_66201	NW_004517220.1	scaffold2210	66201	TT	AA	AA	INTERGENIC			
SNP_104106_A_66247	NW_004517220.1	scaffold2210	66247	TT	AA	AA	INTERGENIC			
SNP_104107_A_66398	NW_004517220.1	scaffold2210	66398	GG	AA	AA	INTERGENIC			
SNP_104108_A_70162	NW_004517220.1	scaffold2210	70162	CC	TT	TT	INTERGENIC			
SNP_104109_A_71594	NW_004517220.1	scaffold2210	71594	GG	AA	AA	INTERGENIC			
SNP_104110_A_71758	NW_004517220.1	scaffold2210	71758	GG	AA	AA	INTERGENIC			
SNP_104111_A_72110	NW_004517220.1	scaffold2210	72110	TT	CC	CC	INTERGENIC			
SNP_104112_A_72610	NW_004517220.1	scaffold2210	72610	AA	GG	GG	INTERGENIC			
SNP_104113_A_72684	NW_004517220.1	scaffold2210	72684	AA	GG	GG	INTERGENIC			
SNP_104114_A_72698	NW_004517220.1	scaffold2210	72698	TT	CC	CC	INTERGENIC			
SNP_104115_A_10814	NW_004517223.1	scaffold2214	10814	AA	CC	CC	INTERGENIC			
SNP_104116_A_17306	NW_004517223.1	scaffold2214	17306	AA	CC	CC	INTERGENIC			
SNP_104117_A_18881	NW_004517223.1	scaffold2214	18881	GG	AA	AA	INTERGENIC			
SNP_104118_A_9527	NW_004517224.1	scaffold2216	9527	CC	GG	GG	INTERGENIC			
SNP_104120_A_42650	NW_004517224.1	scaffold2216	42650	TT	CC	CC	INTERGENIC			
SNP_104121_A_1346	NW_004517225.1	scaffold2217	1346	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104122_A_1354	NW_004517226.1	scaffold2218	1354	TT	AA	AA	INTERGENIC			
SNP_104123_A_1608	NW_004517226.1	scaffold2218	1608	CC	TT	TT	INTERGENIC			
SNP_104124_A_10536	NW_004517226.1	scaffold2218	10536	CC	AA	AA	INTERGENIC			
SNP_104125_A_10571	NW_004517226.1	scaffold2218	10571	TT	CC	CC	INTERGENIC			
SNP_104126_A_10606	NW_004517226.1	scaffold2218	10606	GG	AA	AA	INTERGENIC			
SNP_104127_A_10834	NW_004517226.1	scaffold2218	10834	AA	TT	TT	INTERGENIC			
SNP_104128_A_12575	NW_004517226.1	scaffold2218	12575	GG	AA	AA	INTERGENIC			
SNP_104129_A_1204	NW_004517228.1	scaffold2222	1204	CC	GG	GG	INTERGENIC			
SNP_104131_A_701	NW_004517230.1	scaffold2225	701	AA	GG	GG	INTERGENIC			
SNP_104132_A_702	NW_004517230.1	scaffold2225	702	GG	AA	AA	INTERGENIC			
SNP_104135_A_1830	NW_004517232.1	scaffold2227	1830	AA	CC	CC	INTERGENIC			
SNP_104136_A_5545	NW_004517232.1	scaffold2227	5545	CC	TT	TT	INTERGENIC			
SNP_104137_A_6441	NW_004517232.1	scaffold2227	6441	AA	GG	GG	INTERGENIC			
SNP_104139_A_16742	NW_004517232.1	scaffold2227	16742	TT	CC	CC	INTERGENIC			
SNP_104141_A_28202	NW_004517232.1	scaffold2227	28202	GG	TT	TT	INTERGENIC			
SNP_104142_A_28335	NW_004517232.1	scaffold2227	28335	CC	AA	AA	INTERGENIC			
SNP_104143_A_29242	NW_004517232.1	scaffold2227	29242	AA	GG	GG	INTERGENIC			
SNP_104144_A_29258	NW_004517232.1	scaffold2227	29258	CC	AA	AA	INTERGENIC			
SNP_104145_A_29271	NW_004517232.1	scaffold2227	29271	TT	CC	CC	INTERGENIC			
SNP_104146_A_29276	NW_004517232.1	scaffold2227	29276	CC	GG	GG	INTERGENIC			
SNP_104147_A_29299	NW_004517232.1	scaffold2227	29299	CC	TT	TT	INTERGENIC			
SNP_104148_A_29312	NW_004517232.1	scaffold2227	29312	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104149_A_29338	NW_004517232.1	scaffold2227	29338	AA	GG	GG	INTERGENIC			
SNP_104150_A_29458	NW_004517232.1	scaffold2227	29458	GG	AA	AA	INTERGENIC			
SNP_104151_A_29464	NW_004517232.1	scaffold2227	29464	TT	CC	CC	INTERGENIC			
SNP_104152_A_29467	NW_004517232.1	scaffold2227	29467	TT	CC	CC	INTERGENIC			
SNP_104153_A_29500	NW_004517232.1	scaffold2227	29500	AA	TT	TT	INTERGENIC			
SNP_104154_A_29503	NW_004517232.1	scaffold2227	29503	GG	AA	AA	INTERGENIC			
SNP_104155_A_29524	NW_004517232.1	scaffold2227	29524	TT	AA	AA	INTERGENIC			
SNP_104156_A_29530	NW_004517232.1	scaffold2227	29530	AA	CC	CC	INTERGENIC			
SNP_104157_A_29793	NW_004517232.1	scaffold2227	29793	GG	AA	AA	INTERGENIC			
SNP_104159_A_31926	NW_004517232.1	scaffold2227	31926	TT	CC	CC	INTERGENIC			
SNP_104160_A_40989	NW_004517232.1	scaffold2227	40989	TT	CC	CC	INTERGENIC			
SNP_104161_A_581	NW_004517236.1	scaffold2233	581	TT	AA	AA	INTERGENIC			
SNP_104162_A_870	NW_004517236.1	scaffold2233	870	TT	AA	AA	INTERGENIC			
SNP_104164_A_1811	NW_004517238.1	scaffold2235	1811	GG	AA	AA	INTERGENIC			
SNP_104165_A_1950	NW_004517238.1	scaffold2235	1950	TT	CC	CC	INTERGENIC			
SNP_104166_A_1542	NW_004517240.1	scaffold2238	1542	AA	CC	CC	INTERGENIC			
SNP_104167_A_720	NW_004517241.1	scaffold2239	720	AA	CC	CC	INTERGENIC			
SNP_104168_A_815	NW_004517241.1	scaffold2239	815	GG	AA	AA	INTERGENIC			
SNP_104169_A_1475	NW_004517241.1	scaffold2239	1475	CC	TT	TT	INTERGENIC			
SNP_104170_A_5857	NW_004517243.1	scaffold2241	5857	GG	AA	AA	INTERGENIC			
SNP_104171_A_5916	NW_004517243.1	scaffold2241	5916	CC	GG	GG	INTERGENIC			
SNP_104172_A_6226	NW_004517243.1	scaffold2241	6226	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104173_A_6260	NW_004517243.1	scaffold2241	6260	GG	CC	CC	INTERGENIC			
SNP_104174_A_6285	NW_004517243.1	scaffold2241	6285	TT	CC	CC	INTERGENIC			
SNP_104175_A_6529	NW_004517243.1	scaffold2241	6529	CC	TT	TT	DRR	101512197	Unknown function	
SNP_104176_A_6550	NW_004517243.1	scaffold2241	6550	TT	AA	AA	DRR	101512197	Unknown function	
SNP_104177_A_24860	NW_004517243.1	scaffold2241	24860	AA	GG	GG	INTERGENIC			
SNP_104178_A_647	NW_004517244.1	scaffold2243	647	AA	CC	CC	INTERGENIC			
SNP_104179_A_648	NW_004517244.1	scaffold2243	648	TT	CC	CC	INTERGENIC			
SNP_104180_A_678	NW_004517244.1	scaffold2243	678	CC	AA	AA	INTERGENIC			
SNP_104181_A_5818	NW_004517245.1	scaffold2244	5818	GG	CC	CC	INTERGENIC			
SNP_104182_A_6035	NW_004517245.1	scaffold2244	6035	TT	CC	CC	INTERGENIC			
SNP_104183_A_6071	NW_004517245.1	scaffold2244	6071	CC	AA	AA	INTERGENIC			
SNP_104184_A_6156	NW_004517245.1	scaffold2244	6156	AA	GG	GG	INTERGENIC			
SNP_104185_A_6162	NW_004517245.1	scaffold2244	6162	CC	TT	TT	INTERGENIC			
SNP_104186_A_6173	NW_004517245.1	scaffold2244	6173	TT	CC	CC	INTERGENIC			
SNP_104187_A_316	NW_004517247.1	scaffold2247	316	GG	AA	AA	INTERGENIC			
SNP_104188_A_377	NW_004517247.1	scaffold2247	377	TT	CC	CC	INTERGENIC			
SNP_104189_A_257	NW_004517249.1	scaffold2249	257	TT	CC	CC	INTERGENIC			
SNP_104190_A_334	NW_004517249.1	scaffold2249	334	AA	GG	GG	INTERGENIC			
SNP_104191_A_413	NW_004517249.1	scaffold2249	413	GG	TT	TT	INTERGENIC			
SNP_104192_A_436	NW_004517249.1	scaffold2249	436	GG	TT	TT	INTERGENIC			
SNP_104193_A_450	NW_004517249.1	scaffold2249	450	CC	TT	TT	INTERGENIC			
SNP_104194_A_567	NW_004517249.1	scaffold2249	567	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104195_A_587	NW_004517249.1	scaffold2249	587	TT	CC	CC	INTERGENIC			
SNP_104196_A_609	NW_004517249.1	scaffold2249	609	CC	TT	TT	INTERGENIC			
SNP_104197_A_627	NW_004517249.1	scaffold2249	627	CC	TT	TT	INTERGENIC			
SNP_104198_A_699	NW_004517249.1	scaffold2249	699	TT	CC	CC	INTERGENIC			
SNP_104199_A_776	NW_004517249.1	scaffold2249	776	TT	AA	AA	INTERGENIC			
SNP_104200_A_793	NW_004517249.1	scaffold2249	793	CC	TT	TT	INTERGENIC			
SNP_104201_A_930	NW_004517249.1	scaffold2249	930	CC	TT	TT	INTERGENIC			
SNP_104202_A_945	NW_004517249.1	scaffold2249	945	AA	GG	GG	INTERGENIC			
SNP_104204_A_1168	NW_004517249.1	scaffold2249	1168	AA	GG	GG	INTERGENIC			
SNP_104205_A_1200	NW_004517249.1	scaffold2249	1200	AA	TT	TT	INTERGENIC			
SNP_104206_A_1210	NW_004517249.1	scaffold2249	1210	AA	GG	GG	INTERGENIC			
SNP_104207_A_1329	NW_004517249.1	scaffold2249	1329	AA	CC	CC	INTERGENIC			
SNP_104209_A_29424	NW_004517249.1	scaffold2249	29424	TT	CC	CC	INTERGENIC			
SNP_104210_A_31344	NW_004517249.1	scaffold2249	31344	GG	TT	TT	INTERGENIC			
SNP_104211_A_34020	NW_004517249.1	scaffold2249	34020	TT	CC	CC	INTERGENIC			
SNP_104212_A_36210	NW_004517249.1	scaffold2249	36210	TT	CC	CC	INTERGENIC			
SNP_104213_A_49029	NW_004517249.1	scaffold2249	49029	TT	GG	GG	INTERGENIC			
SNP_104214_A_49091	NW_004517249.1	scaffold2249	49091	TT	GG	GG	INTERGENIC			
SNP_104215_A_49148	NW_004517249.1	scaffold2249	49148	CC	GG	GG	INTERGENIC			
SNP_104216_A_49280	NW_004517249.1	scaffold2249	49280	TT	GG	GG	INTERGENIC			
SNP_104217_A_49395	NW_004517249.1	scaffold2249	49395	AA	TT	TT	INTERGENIC			
SNP_104218_A_49401	NW_004517249.1	scaffold2249	49401	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104219_A_49406	NW_004517249.1	scaffold2249	49406	GG	AA	AA	INTERGENIC			
SNP_104220_A_53756	NW_004517249.1	scaffold2249	53756	AA	GG	GG	INTERGENIC			
SNP_104221_A_54266	NW_004517249.1	scaffold2249	54266	TT	GG	GG	INTERGENIC			
SNP_104222_A_54298	NW_004517249.1	scaffold2249	54298	AA	TT	TT	INTERGENIC			
SNP_104223_A_80854	NW_004517249.1	scaffold2249	80854	TT	AA	AA	INTERGENIC			
SNP_104224_A_80858	NW_004517249.1	scaffold2249	80858	TT	GG	GG	INTERGENIC			
SNP_104225_A_80879	NW_004517249.1	scaffold2249	80879	TT	GG	GG	INTERGENIC			
SNP_104226_A_82914	NW_004517249.1	scaffold2249	82914	AA	GG	GG	INTERGENIC			
SNP_104227_A_83478	NW_004517249.1	scaffold2249	83478	AA	GG	GG	INTERGENIC			
SNP_104228_A_83501	NW_004517249.1	scaffold2249	83501	TT	CC	CC	INTERGENIC			
SNP_104229_A_83539	NW_004517249.1	scaffold2249	83539	TT	GG	GG	INTERGENIC			
SNP_104230_A_383	NW_004517253.1	scaffold2254	383	AA	CC	CC	INTERGENIC			
SNP_104231_A_437	NW_004517253.1	scaffold2254	437	AA	TT	TT	INTERGENIC			
SNP_104232_A_462	NW_004517253.1	scaffold2254	462	AA	TT	TT	INTERGENIC			
SNP_104233_A_491	NW_004517254.1	scaffold2256	491	GG	AA	AA	INTERGENIC			
SNP_104234_A_707	NW_004517254.1	scaffold2256	707	CC	TT	TT	INTERGENIC			
SNP_104235_A_1033	NW_004517254.1	scaffold2256	1033	CC	TT	TT	INTERGENIC			
SNP_104236_A_1247	NW_004517254.1	scaffold2256	1247	AA	GG	GG	INTERGENIC			
SNP_104237_A_1468	NW_004517254.1	scaffold2256	1468	GG	AA	AA	INTERGENIC			
SNP_104238_A_1621	NW_004517254.1	scaffold2256	1621	AA	TT	TT	INTERGENIC			
SNP_104239_A_1947	NW_004517254.1	scaffold2256	1947	TT	CC	CC	INTERGENIC			
SNP_104240_A_2350	NW_004517254.1	scaffold2256	2350	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104241_A_2900	NW_004517254.1	scaffold2256	2900	GG	CC	CC	INTERGENIC			
SNP_104242_A_2934	NW_004517254.1	scaffold2256	2934	AA	GG	GG	INTERGENIC			
SNP_104243_A_3248	NW_004517254.1	scaffold2256	3248	TT	CC	CC	INTERGENIC			
SNP_104244_A_3470	NW_004517254.1	scaffold2256	3470	CC	TT	TT	INTERGENIC			
SNP_104245_A_5347	NW_004517254.1	scaffold2256	5347	CC	AA	AA	INTERGENIC			
SNP_104246_A_5361	NW_004517254.1	scaffold2256	5361	GG	AA	AA	INTERGENIC			
SNP_104247_A_5698	NW_004517254.1	scaffold2256	5698	AA	TT	TT	INTERGENIC			
SNP_104248_A_5880	NW_004517254.1	scaffold2256	5880	CC	TT	TT	INTERGENIC			
SNP_104249_A_829	NW_004517256.1	scaffold2258	829	TT	CC	CC	INTERGENIC			
SNP_104250_A_2155	NW_004517256.1	scaffold2258	2155	AA	GG	GG	INTERGENIC			
SNP_104251_A_2311	NW_004517256.1	scaffold2258	2311	AA	GG	GG	INTERGENIC			
SNP_104252_A_2393	NW_004517256.1	scaffold2258	2393	CC	TT	TT	INTERGENIC			
SNP_104253_A_1465	NW_004517259.1	scaffold2263	1465	AA	CC	CC	INTERGENIC			
SNP_104254_A_1485	NW_004517259.1	scaffold2263	1485	CC	GG	GG	INTERGENIC			
SNP_104255_A_1517	NW_004517259.1	scaffold2263	1517	TT	AA	AA	INTERGENIC			
SNP_104256_A_1912	NW_004517259.1	scaffold2263	1912	CC	TT	TT	INTERGENIC			
SNP_104257_A_1921	NW_004517259.1	scaffold2263	1921	TT	CC	CC	INTERGENIC			
SNP_104258_A_1990	NW_004517259.1	scaffold2263	1990	AA	CC	CC	INTERGENIC			
SNP_104259_A_2101	NW_004517259.1	scaffold2263	2101	TT	AA	AA	INTERGENIC			
SNP_104260_A_1057	NW_004517262.1	scaffold2268	1057	TT	AA	AA	INTERGENIC			
SNP_104261_A_1077	NW_004517262.1	scaffold2268	1077	TT	CC	CC	INTERGENIC			
SNP_104262_A_7122	NW_004517262.1	scaffold2268	7122	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104263_A_7231	NW_004517262.1	scaffold2268	7231	AA	GG	GG	INTERGENIC			
SNP_104264_A_7253	NW_004517262.1	scaffold2268	7253	GG	AA	AA	INTERGENIC			
SNP_104266_A_1664	NW_004517263.1	scaffold2269	1664	CC	TT	TT	INTERGENIC			
SNP_104267_A_2205	NW_004517263.1	scaffold2269	2205	CC	GG	GG	INTERGENIC			
SNP_104268_A_5000	NW_004517263.1	scaffold2269	5000	TT	AA	AA	INTERGENIC			
SNP_104269_A_6106	NW_004517263.1	scaffold2269	6106	TT	AA	AA	INTERGENIC			
SNP_104270_A_20143	NW_004517263.1	scaffold2269	20143	TT	AA	AA	INTERGENIC			
SNP_104271_A_20399	NW_004517263.1	scaffold2269	20399	AA	CC	CC	INTERGENIC			
SNP_104272_A_29235	NW_004517263.1	scaffold2269	29235	CC	TT	TT	INTERGENIC			
SNP_104273_A_43053	NW_004517263.1	scaffold2269	43053	AA	GG	GG	INTERGENIC			
SNP_104274_A_43093	NW_004517263.1	scaffold2269	43093	TT	GG	GG	INTERGENIC			
SNP_104275_A_43131	NW_004517263.1	scaffold2269	43131	AA	GG	GG	INTERGENIC			
SNP_104276_A_43136	NW_004517263.1	scaffold2269	43136	AA	GG	GG	INTERGENIC			
SNP_104277_A_43194	NW_004517263.1	scaffold2269	43194	AA	CC	CC	INTERGENIC			
SNP_104278_A_43242	NW_004517263.1	scaffold2269	43242	TT	GG	GG	INTERGENIC			
SNP_104280_A_43296	NW_004517263.1	scaffold2269	43296	GG	AA	AA	INTERGENIC			
SNP_104281_A_43396	NW_004517263.1	scaffold2269	43396	TT	CC	CC	INTERGENIC			
SNP_104282_A_43406	NW_004517263.1	scaffold2269	43406	AA	GG	GG	INTERGENIC			
SNP_104283_A_43447	NW_004517263.1	scaffold2269	43447	TT	CC	CC	INTERGENIC			
SNP_104284_A_43451	NW_004517263.1	scaffold2269	43451	CC	TT	TT	INTERGENIC			
SNP_104286_A_96731	NW_004517263.1	scaffold2269	96731	CC	TT	TT	INTERGENIC			
SNP_104287_A_118378	NW_004517263.1	scaffold2269	118378	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104288_A_118405	NW_004517263.1	scaffold2269	118405	TT	AA	AA	INTERGENIC			
SNP_104290_A_138865	NW_004517263.1	scaffold2269	138865	CC	GG	GG	INTERGENIC			
SNP_104291_A_138906	NW_004517263.1	scaffold2269	138906	GG	TT	TT	INTERGENIC			
SNP_104292_A_138977	NW_004517263.1	scaffold2269	138977	TT	CC	CC	INTERGENIC			
SNP_104293_A_139916	NW_004517263.1	scaffold2269	139916	AA	GG	GG	INTERGENIC			
SNP_104294_A_139956	NW_004517263.1	scaffold2269	139956	AA	GG	GG	INTERGENIC			
SNP_104295_A_139965	NW_004517263.1	scaffold2269	139965	GG	AA	AA	INTERGENIC			
SNP_104296_A_139976	NW_004517263.1	scaffold2269	139976	AA	GG	GG	INTERGENIC			
SNP_104297_A_158302	NW_004517263.1	scaffold2269	158302	CC	AA	AA	INTERGENIC			
SNP_104298_A_167061	NW_004517263.1	scaffold2269	167061	CC	GG	GG	INTERGENIC			
SNP_104299_A_167112	NW_004517263.1	scaffold2269	167112	TT	AA	AA	INTERGENIC			
SNP_104300_A_167113	NW_004517263.1	scaffold2269	167113	GG	TT	TT	INTERGENIC			
SNP_104301_A_167114	NW_004517263.1	scaffold2269	167114	TT	GG	GG	INTERGENIC			
SNP_104302_A_167161	NW_004517263.1	scaffold2269	167161	CC	TT	TT	INTERGENIC			
SNP_104303_A_173755	NW_004517263.1	scaffold2269	173755	TT	CC	CC	INTERGENIC			
SNP_104304_A_1499	NW_004517265.1	scaffold2273	1499	AA	GG	GG	INTERGENIC			
SNP_104305_A_1544	NW_004517265.1	scaffold2273	1544	AA	TT	TT	INTERGENIC			
SNP_104306_A_1589	NW_004517265.1	scaffold2273	1589	GG	AA	AA	INTERGENIC			
SNP_104307_A_1592	NW_004517265.1	scaffold2273	1592	CC	GG	GG	INTERGENIC			
SNP_104308_A_1616	NW_004517265.1	scaffold2273	1616	CC	GG	GG	INTERGENIC			
SNP_104309_A_2665	NW_004517265.1	scaffold2273	2665	GG	TT	TT	INTERGENIC			
SNP_104310_A_2714	NW_004517265.1	scaffold2273	2714	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104311_A_2951	NW_004517265.1	scaffold2273	2951	TT	CC	CC	INTERGENIC			
SNP_104312_A_3043	NW_004517265.1	scaffold2273	3043	GG	AA	AA	INTERGENIC			
SNP_104313_A_3058	NW_004517265.1	scaffold2273	3058	CC	AA	AA	INTERGENIC			
SNP_104314_A_3234	NW_004517265.1	scaffold2273	3234	CC	TT	TT	INTERGENIC			
SNP_104315_A_12285	NW_004517265.1	scaffold2273	12285	AA	GG	GG	INTERGENIC			
SNP_104316_A_22598	NW_004517265.1	scaffold2273	22598	CC	TT	TT	INTERGENIC			
SNP_104317_A_22606	NW_004517265.1	scaffold2273	22606	TT	GG	GG	INTERGENIC			
SNP_104318_A_24428	NW_004517265.1	scaffold2273	24428	GG	TT	TT	INTERGENIC			
SNP_104319_A_24444	NW_004517265.1	scaffold2273	24444	GG	AA	AA	INTERGENIC			
SNP_104320_A_24795	NW_004517265.1	scaffold2273	24795	TT	GG	GG	INTERGENIC			
SNP_104321_A_24808	NW_004517265.1	scaffold2273	24808	AA	GG	GG	INTERGENIC			
SNP_104322_A_24962	NW_004517265.1	scaffold2273	24962	AA	TT	TT	INTERGENIC			
SNP_104324_A_26210	NW_004517265.1	scaffold2273	26210	GG	TT	TT	INTERGENIC			
SNP_104325_A_32872	NW_004517265.1	scaffold2273	32872	CC	TT	TT	INTERGENIC			
SNP_104326_A_32935	NW_004517265.1	scaffold2273	32935	GG	TT	TT	INTERGENIC			
SNP_104327_A_33128	NW_004517265.1	scaffold2273	33128	GG	TT	TT	INTERGENIC			
SNP_104328_A_33158	NW_004517265.1	scaffold2273	33158	AA	TT	GG	INTERGENIC			
SNP_104329_A_33172	NW_004517265.1	scaffold2273	33172	CC	GG	GG	INTERGENIC			
SNP_104330_A_33186	NW_004517265.1	scaffold2273	33186	TT	GG	GG	INTERGENIC			
SNP_104331_A_33227	NW_004517265.1	scaffold2273	33227	AA	GG	GG	INTERGENIC			
SNP_104332_A_33230	NW_004517265.1	scaffold2273	33230	CC	TT	TT	INTERGENIC			
SNP_104333_A_33231	NW_004517265.1	scaffold2273	33231	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104334_A_55296	NW_004517265.1	scaffold2273	55296	CC	AA	AA	INTERGENIC			
SNP_104335_A_2937	NW_004517266.1	scaffold2275	2937	GG	AA	AA	INTERGENIC			
SNP_104337_A_8047	NW_004517271.1	scaffold2282	8047	TT	GG	GG	INTERGENIC			
SNP_104338_A_8079	NW_004517271.1	scaffold2282	8079	TT	AA	AA	INTERGENIC			
SNP_104339_A_8080	NW_004517271.1	scaffold2282	8080	GG	AA	AA	INTERGENIC			
SNP_104340_A_8096	NW_004517271.1	scaffold2282	8096	TT	GG	GG	INTERGENIC			
SNP_104341_A_8113	NW_004517271.1	scaffold2282	8113	TT	AA	AA	INTERGENIC			
SNP_104342_A_8465	NW_004517271.1	scaffold2282	8465	GG	AA	AA	INTERGENIC			
SNP_104343_A_2684	NW_004517272.1	scaffold2285	2684	TT	CC	CC	INTERGENIC			
SNP_104344_A_2699	NW_004517272.1	scaffold2285	2699	TT	CC	CC	INTERGENIC			
SNP_104345_A_2815	NW_004517272.1	scaffold2285	2815	GG	AA	AA	INTERGENIC			
SNP_104346_A_3067	NW_004517272.1	scaffold2285	3067	GG	TT	TT	INTERGENIC			
SNP_104347_A_3094	NW_004517272.1	scaffold2285	3094	TT	AA	AA	INTERGENIC			
SNP_104348_A_3157	NW_004517272.1	scaffold2285	3157	AA	TT	TT	INTERGENIC			
SNP_104349_A_59	NW_004517274.1	scaffold2287	59	GG	AA	AA	INTERGENIC			
SNP_104350_A_64	NW_004517274.1	scaffold2287	64	CC	GG	GG	INTERGENIC			
SNP_104351_A_93	NW_004517274.1	scaffold2287	93	AA	CC	CC	INTERGENIC			
SNP_104352_A_123	NW_004517274.1	scaffold2287	123	GG	TT	TT	INTERGENIC			
SNP_104353_A_231	NW_004517274.1	scaffold2287	231	CC	GG	GG	INTERGENIC			
SNP_104354_A_326	NW_004517274.1	scaffold2287	326	AA	GG	GG	INTERGENIC			
SNP_104355_A_399	NW_004517274.1	scaffold2287	399	GG	CC	CC	INTERGENIC			
SNP_104356_A_506	NW_004517274.1	scaffold2287	506	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104357_A_528	NW_004517274.1	scaffold2287	528	CC	TT	TT	INTERGENIC			
SNP_104358_A_591	NW_004517274.1	scaffold2287	591	TT	CC	CC	INTERGENIC			
SNP_104359_A_630	NW_004517274.1	scaffold2287	630	TT	GG	GG	INTERGENIC			
SNP_104360_A_659	NW_004517274.1	scaffold2287	659	GG	AA	AA	INTERGENIC			
SNP_104361_A_675	NW_004517274.1	scaffold2287	675	TT	GG	GG	INTERGENIC			
SNP_104362_A_789	NW_004517274.1	scaffold2287	789	GG	AA	AA	INTERGENIC			
SNP_104363_A_797	NW_004517274.1	scaffold2287	797	GG	AA	AA	INTERGENIC			
SNP_104364_A_885	NW_004517274.1	scaffold2287	885	CC	TT	TT	INTERGENIC			
SNP_104365_A_1086	NW_004517274.1	scaffold2287	1086	AA	TT	TT	INTERGENIC			
SNP_104366_A_1101	NW_004517274.1	scaffold2287	1101	CC	TT	TT	INTERGENIC			
SNP_104367_A_1125	NW_004517274.1	scaffold2287	1125	AA	GG	GG	INTERGENIC			
SNP_104368_A_2912	NW_004517275.1	scaffold2289	2912	AA	CC	CC	INTERGENIC			
SNP_104369_A_3278	NW_004517275.1	scaffold2289	3278	TT	AA	AA	INTERGENIC			
SNP_104370_A_3580	NW_004517275.1	scaffold2289	3580	AA	GG	GG	INTERGENIC			
SNP_104371_A_10640	NW_004517275.1	scaffold2289	10640	GG	TT	TT	INTERGENIC			
SNP_104372_A_12701	NW_004517275.1	scaffold2289	12701	GG	CC	CC	INTERGENIC			
SNP_104373_A_12817	NW_004517275.1	scaffold2289	12817	GG	AA	AA	INTERGENIC			
SNP_104375_A_15611	NW_004517275.1	scaffold2289	15611	AA	GG	GG	INTERGENIC			
SNP_104376_A_17153	NW_004517275.1	scaffold2289	17153	GG	AA	AA	INTERGENIC			
SNP_104377_A_1979	NW_004517277.1	scaffold2291	1979	AA	GG	GG	INTERGENIC			
SNP_104379_A_2047	NW_004517277.1	scaffold2291	2047	AA	GG	GG	INTERGENIC			
SNP_104380_A_391	NW_004517284.1	scaffold2300	391	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104382_A_1628	NW_004517285.1	scaffold2301	1628	AA	GG	GG	INTERGENIC			
SNP_104383_A_1754	NW_004517285.1	scaffold2301	1754	TT	GG	GG	INTERGENIC			
SNP_104384_A_1765	NW_004517285.1	scaffold2301	1765	TT	CC	CC	INTERGENIC			
SNP_104385_A_1788	NW_004517285.1	scaffold2301	1788	CC	GG	GG	INTERGENIC			
SNP_104386_A_1800	NW_004517285.1	scaffold2301	1800	CC	TT	TT	INTERGENIC			
SNP_104387_A_2072	NW_004517285.1	scaffold2301	2072	CC	TT	TT	INTERGENIC			
SNP_104388_A_2298	NW_004517285.1	scaffold2301	2298	AA	GG	GG	INTERGENIC			
SNP_104389_A_2316	NW_004517285.1	scaffold2301	2316	AA	GG	GG	INTERGENIC			
SNP_104390_A_2400	NW_004517285.1	scaffold2301	2400	GG	CC	CC	INTERGENIC			
SNP_104391_A_2422	NW_004517285.1	scaffold2301	2422	CC	GG	GG	INTERGENIC			
SNP_104392_A_2450	NW_004517285.1	scaffold2301	2450	CC	TT	TT	INTERGENIC			
SNP_104393_A_2457	NW_004517285.1	scaffold2301	2457	AA	GG	GG	INTERGENIC			
SNP_104394_A_3306	NW_004517285.1	scaffold2301	3306	AA	TT	TT	INTERGENIC			
SNP_104396_A_3509	NW_004517285.1	scaffold2301	3509	TT	CC	CC	INTERGENIC			
SNP_104397_A_6019	NW_004517285.1	scaffold2301	6019	GG	TT	TT	INTERGENIC			
SNP_104398_A_6055	NW_004517285.1	scaffold2301	6055	CC	GG	GG	INTERGENIC			
SNP_104399_A_6062	NW_004517285.1	scaffold2301	6062	TT	CC	CC	INTERGENIC			
SNP_104400_A_6124	NW_004517285.1	scaffold2301	6124	TT	AA	AA	INTERGENIC			
SNP_104401_A_6258	NW_004517285.1	scaffold2301	6258	GG	TT	TT	INTERGENIC			
SNP_104402_A_8048	NW_004517285.1	scaffold2301	8048	TT	CC	CC	INTERGENIC			
SNP_104403_A_8102	NW_004517285.1	scaffold2301	8102	TT	CC	CC	INTERGENIC			
SNP_104404_A_8120	NW_004517285.1	scaffold2301	8120	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104405_A_8131	NW_004517285.1	scaffold2301	8131	AA	GG	GG	INTERGENIC			
SNP_104406_A_8252	NW_004517285.1	scaffold2301	8252	TT	CC	CC	INTERGENIC			
SNP_104407_A_8287	NW_004517285.1	scaffold2301	8287	TT	CC	CC	INTERGENIC			
SNP_104408_A_8330	NW_004517285.1	scaffold2301	8330	GG	TT	TT	INTERGENIC			
SNP_104409_A_8357	NW_004517285.1	scaffold2301	8357	TT	CC	CC	INTERGENIC			
SNP_104410_A_8396	NW_004517285.1	scaffold2301	8396	AA	GG	GG	INTERGENIC			
SNP_104411_A_8416	NW_004517285.1	scaffold2301	8416	CC	GG	GG	INTERGENIC			
SNP_104412_A_8429	NW_004517285.1	scaffold2301	8429	CC	AA	AA	INTERGENIC			
SNP_104413_A_8495	NW_004517285.1	scaffold2301	8495	AA	GG	GG	INTERGENIC			
SNP_104414_A_10651	NW_004517285.1	scaffold2301	10651	GG	CC	CC	INTERGENIC			
SNP_104415_A_13605	NW_004517285.1	scaffold2301	13605	AA	GG	GG	INTERGENIC			
SNP_104416_A_18241	NW_004517285.1	scaffold2301	18241	CC	TT	TT	INTERGENIC			
SNP_104417_A_18265	NW_004517285.1	scaffold2301	18265	CC	TT	TT	INTERGENIC			
SNP_104418_A_18491	NW_004517285.1	scaffold2301	18491	TT	GG	GG	INTERGENIC			
SNP_104419_A_18515	NW_004517285.1	scaffold2301	18515	TT	GG	GG	INTERGENIC			
SNP_104420_A_18552	NW_004517285.1	scaffold2301	18552	TT	CC	CC	INTERGENIC			
SNP_104421_A_18609	NW_004517285.1	scaffold2301	18609	AA	GG	GG	INTERGENIC			
SNP_104422_A_18611	NW_004517285.1	scaffold2301	18611	GG	CC	CC	INTERGENIC			
SNP_104423_A_18663	NW_004517285.1	scaffold2301	18663	GG	AA	AA	INTERGENIC			
SNP_104424_A_18687	NW_004517285.1	scaffold2301	18687	AA	GG	GG	INTERGENIC			
SNP_104425_A_18693	NW_004517285.1	scaffold2301	18693	CC	TT	TT	INTERGENIC			
SNP_104427_A_18732	NW_004517285.1	scaffold2301	18732	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104428_A_22532	NW_004517285.1	scaffold2301	22532	TT	AA	AA	INTERGENIC			
SNP_104429_A_22613	NW_004517285.1	scaffold2301	22613	AA	CC	CC	INTERGENIC			
SNP_104430_A_22670	NW_004517285.1	scaffold2301	22670	CC	TT	TT	INTERGENIC			
SNP_104431_A_22715	NW_004517285.1	scaffold2301	22715	TT	GG	GG	INTERGENIC			
SNP_104433_A_22891	NW_004517285.1	scaffold2301	22891	CC	TT	TT	INTERGENIC			
SNP_104434_A_29829	NW_004517285.1	scaffold2301	29829	TT	CC	CC	INTERGENIC			
SNP_104435_A_29842	NW_004517285.1	scaffold2301	29842	GG	AA	AA	INTERGENIC			
SNP_104436_A_30310	NW_004517285.1	scaffold2301	30310	GG	AA	AA	INTERGENIC			
SNP_104437_A_30333	NW_004517285.1	scaffold2301	30333	GG	CC	CC	INTERGENIC			
SNP_104438_A_30344	NW_004517285.1	scaffold2301	30344	AA	GG	GG	INTERGENIC			
SNP_104439_A_30492	NW_004517285.1	scaffold2301	30492	GG	CC	CC	INTERGENIC			
SNP_104440_A_32024	NW_004517285.1	scaffold2301	32024	GG	AA	AA	INTERGENIC			
SNP_104441_A_32044	NW_004517285.1	scaffold2301	32044	GG	AA	AA	INTERGENIC			
SNP_104442_A_32049	NW_004517285.1	scaffold2301	32049	GG	AA	AA	INTERGENIC			
SNP_104443_A_32162	NW_004517285.1	scaffold2301	32162	CC	TT	TT	INTERGENIC			
SNP_104444_A_32179	NW_004517285.1	scaffold2301	32179	CC	TT	TT	INTERGENIC			
SNP_104445_A_32192	NW_004517285.1	scaffold2301	32192	AA	GG	GG	INTERGENIC			
SNP_104446_A_32231	NW_004517285.1	scaffold2301	32231	TT	CC	CC	INTERGENIC			
SNP_104447_A_32237	NW_004517285.1	scaffold2301	32237	TT	GG	GG	INTERGENIC			
SNP_104448_A_32243	NW_004517285.1	scaffold2301	32243	CC	TT	TT	INTERGENIC			
SNP_104449_A_32309	NW_004517285.1	scaffold2301	32309	TT	CC	CC	INTERGENIC			
SNP_104450_A_32456	NW_004517285.1	scaffold2301	32456	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104451_A_32533	NW_004517285.1	scaffold2301	32533	GG	AA	AA	INTERGENIC			
SNP_104452_A_32682	NW_004517285.1	scaffold2301	32682	GG	CC	CC	INTERGENIC			
SNP_104453_A_32687	NW_004517285.1	scaffold2301	32687	GG	TT	TT	INTERGENIC			
SNP_104454_A_32710	NW_004517285.1	scaffold2301	32710	AA	GG	GG	INTERGENIC			
SNP_104455_A_34638	NW_004517285.1	scaffold2301	34638	AA	GG	GG	INTERGENIC			
SNP_104456_A_35155	NW_004517285.1	scaffold2301	35155	GG	AA	AA	INTERGENIC			
SNP_104457_A_35264	NW_004517285.1	scaffold2301	35264	AA	GG	GG	INTERGENIC			
SNP_104458_A_35320	NW_004517285.1	scaffold2301	35320	AA	GG	GG	INTERGENIC			
SNP_104459_A_35332	NW_004517285.1	scaffold2301	35332	AA	GG	GG	INTERGENIC			
SNP_104460_A_35542	NW_004517285.1	scaffold2301	35542	TT	AA	AA	INTERGENIC			
SNP_104461_A_35551	NW_004517285.1	scaffold2301	35551	CC	TT	TT	INTERGENIC			
SNP_104462_A_35634	NW_004517285.1	scaffold2301	35634	AA	TT	TT	INTERGENIC			
SNP_104463_A_35650	NW_004517285.1	scaffold2301	35650	CC	TT	TT	INTERGENIC			
SNP_104464_A_35762	NW_004517285.1	scaffold2301	35762	AA	CC	CC	INTERGENIC			
SNP_104465_A_35770	NW_004517285.1	scaffold2301	35770	CC	TT	TT	INTERGENIC			
SNP_104466_A_35775	NW_004517285.1	scaffold2301	35775	CC	TT	TT	INTERGENIC			
SNP_104467_A_35850	NW_004517285.1	scaffold2301	35850	GG	TT	TT	INTERGENIC			
SNP_104468_A_36028	NW_004517285.1	scaffold2301	36028	TT	CC	CC	INTERGENIC			
SNP_104469_A_36069	NW_004517285.1	scaffold2301	36069	GG	CC	CC	INTERGENIC			
SNP_104470_A_36073	NW_004517285.1	scaffold2301	36073	TT	GG	GG	INTERGENIC			
SNP_104471_A_36152	NW_004517285.1	scaffold2301	36152	CC	GG	GG	INTERGENIC			
SNP_104472_A_40831	NW_004517285.1	scaffold2301	40831	AA	GG	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104473_A_40858	NW_004517285.1	scaffold2301	40858	GG	AA	AA	INTERGENIC			
SNP_104474_A_43171	NW_004517285.1	scaffold2301	43171	AA	TT	TT	INTERGENIC			
SNP_104475_A_43195	NW_004517285.1	scaffold2301	43195	CC	AA	AA	INTERGENIC			
SNP_104477_A_43509	NW_004517285.1	scaffold2301	43509	TT	GG	GG	INTERGENIC			
SNP_104478_A_43539	NW_004517285.1	scaffold2301	43539	TT	CC	CC	INTERGENIC			
SNP_104479_A_53367	NW_004517285.1	scaffold2301	53367	AA	GG	GG	INTERGENIC			
SNP_104480_A_53627	NW_004517285.1	scaffold2301	53627	GG	AA	AA	INTERGENIC			
SNP_104481_A_53654	NW_004517285.1	scaffold2301	53654	TT	AA	AA	INTERGENIC			
SNP_104482_A_53663	NW_004517285.1	scaffold2301	53663	AA	GG	GG	INTERGENIC			
SNP_104484_A_53964	NW_004517285.1	scaffold2301	53964	GG	AA	AA	INTERGENIC			
SNP_104485_A_53985	NW_004517285.1	scaffold2301	53985	GG	TT	TT	INTERGENIC			
SNP_104486_A_54032	NW_004517285.1	scaffold2301	54032	AA	CC	CC	INTERGENIC			
SNP_104488_A_54458	NW_004517285.1	scaffold2301	54458	TT	GG	GG	INTERGENIC			
SNP_104489_A_54462	NW_004517285.1	scaffold2301	54462	GG	AA	AA	INTERGENIC			
SNP_104491_A_55716	NW_004517285.1	scaffold2301	55716	TT	CC	CC	INTERGENIC			
SNP_104493_A_57427	NW_004517285.1	scaffold2301	57427	AA	GG	GG	INTERGENIC			
SNP_104494_A_57484	NW_004517285.1	scaffold2301	57484	CC	TT	TT	INTERGENIC			
SNP_104495_A_57514	NW_004517285.1	scaffold2301	57514	AA	TT	TT	INTERGENIC			
SNP_104496_A_60542	NW_004517285.1	scaffold2301	60542	CC	TT	TT	INTERGENIC			
SNP_104497_A_61420	NW_004517285.1	scaffold2301	61420	TT	CC	CC	INTERGENIC			
SNP_104498_A_61465	NW_004517285.1	scaffold2301	61465	TT	AA	AA	INTERGENIC			
SNP_104499_A_61535	NW_004517285.1	scaffold2301	61535	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104500_A_61556	NW_004517285.1	scaffold2301	61556	AA	GG	GG	INTERGENIC		
SNP_104501_A_61612	NW_004517285.1	scaffold2301	61612	CC	GG	GG	INTERGENIC		
SNP_104502_A_61660	NW_004517285.1	scaffold2301	61660	TT	CC	CC	INTERGENIC		
SNP_104503_A_61832	NW_004517285.1	scaffold2301	61832	TT	CC	CC	INTERGENIC		
SNP_104504_A_64822	NW_004517285.1	scaffold2301	64822	GG	TT	TT	INTERGENIC		
SNP_104505_A_65036	NW_004517285.1	scaffold2301	65036	TT	GG	GG	INTERGENIC		
SNP_104506_A_65163	NW_004517285.1	scaffold2301	65163	AA	TT	TT	INTERGENIC		
SNP_104507_A_65232	NW_004517285.1	scaffold2301	65232	TT	GG	GG	INTERGENIC		
SNP_104508_A_65266	NW_004517285.1	scaffold2301	65266	AA	GG	GG	INTERGENIC		
SNP_104509_A_65354	NW_004517285.1	scaffold2301	65354	TT	AA	AA	INTERGENIC		
SNP_104510_A_65427	NW_004517285.1	scaffold2301	65427	AA	TT	TT	INTERGENIC		
SNP_104511_A_65436	NW_004517285.1	scaffold2301	65436	AA	TT	TT	INTERGENIC		
SNP_104512_A_69173	NW_004517285.1	scaffold2301	69173	AA	TT	TT	DRR	101489080	uncharacterized LOC101489080
SNP_104513_A_794	NW_004517288.1	scaffold2304	794	AA	GG	GG	INTERGENIC		
SNP_104514_A_46577	NW_004517293.1	scaffold2311	46577	AA	TT	TT	INTERGENIC		
SNP_104515_A_46597	NW_004517293.1	scaffold2311	46597	TT	CC	CC	INTERGENIC		
SNP_104516_A_46922	NW_004517293.1	scaffold2311	46922	CC	AA	AA	INTERGENIC		
SNP_104517_A_46940	NW_004517293.1	scaffold2311	46940	CC	TT	TT	INTERGENIC		
SNP_104518_A_95317	NW_004517293.1	scaffold2311	95317	AA	CC	CC	INTERGENIC		
SNP_104519_A_95346	NW_004517293.1	scaffold2311	95346	AA	CC	CC	INTERGENIC		
SNP_104520_A_16491	NW_004517294.1	scaffold2312	16491	CC	TT	TT	INTERGENIC		
SNP_104521_A_636	NW_004517297.1	scaffold2319	636	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104522_A_648	NW_004517297.1	scaffold2319	648	AA	GG	GG	INTERGENIC			
SNP_104523_A_677	NW_004517297.1	scaffold2319	677	AA	TT	TT	INTERGENIC			
SNP_104524_A_14784	NW_004517298.1	scaffold2320	14784	AA	GG	GG	INTERGENIC			
SNP_104525_A_1666	NW_004517300.1	scaffold2322	1666	AA	TT	TT	INTERGENIC			
SNP_104526_A_6308	NW_004517300.1	scaffold2322	6308	GG	TT	TT	INTERGENIC			
SNP_104527_A_6313	NW_004517300.1	scaffold2322	6313	TT	CC	CC	INTERGENIC			
SNP_104528_A_6369	NW_004517300.1	scaffold2322	6369	TT	AA	AA	INTERGENIC			
SNP_104529_A_6488	NW_004517300.1	scaffold2322	6488	GG	AA	AA	INTERGENIC			
SNP_104530_A_6946	NW_004517300.1	scaffold2322	6946	AA	GG	GG	INTERGENIC			
SNP_104531_A_8972	NW_004517300.1	scaffold2322	8972	AA	TT	TT	INTERGENIC			
SNP_104532_A_2606	NW_004517302.1	scaffold2325	2606	AA	GG	GG	INTERGENIC			
SNP_104534_A_51337	NW_004517302.1	scaffold2325	51337	GG	AA	AA	INTERGENIC			
SNP_104535_A_51562	NW_004517302.1	scaffold2325	51562	TT	CC	CC	INTERGENIC			
SNP_104536_A_51567	NW_004517302.1	scaffold2325	51567	AA	CC	CC	INTERGENIC			
SNP_104537_A_51667	NW_004517302.1	scaffold2325	51667	AA	GG	GG	INTERGENIC			
SNP_104538_A_51723	NW_004517302.1	scaffold2325	51723	AA	GG	GG	INTERGENIC			
SNP_104539_A_51867	NW_004517302.1	scaffold2325	51867	AA	GG	GG	INTERGENIC			
SNP_104540_A_52091	NW_004517302.1	scaffold2325	52091	TT	GG	GG	INTERGENIC			
SNP_104541_A_52098	NW_004517302.1	scaffold2325	52098	AA	GG	GG	INTERGENIC			
SNP_104542_A_58199	NW_004517302.1	scaffold2325	58199	GG	TT	TT	INTERGENIC			
SNP_104543_A_58431	NW_004517302.1	scaffold2325	58431	TT	AA	AA	INTERGENIC			
SNP_104545_A_58557	NW_004517302.1	scaffold2325	58557	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104546_A_58791	NW_004517302.1	scaffold2325	58791	TT	CC	CC	INTERGENIC			
SNP_104547_A_58793	NW_004517302.1	scaffold2325	58793	GG	CC	CC	INTERGENIC			
SNP_104548_A_58880	NW_004517302.1	scaffold2325	58880	AA	TT	TT	INTERGENIC			
SNP_104549_A_58908	NW_004517302.1	scaffold2325	58908	AA	CC	CC	INTERGENIC			
SNP_104550_A_59987	NW_004517302.1	scaffold2325	59987	CC	GG	GG	INTERGENIC			
SNP_104551_A_60057	NW_004517302.1	scaffold2325	60057	CC	TT	TT	INTERGENIC			
SNP_104552_A_60422	NW_004517302.1	scaffold2325	60422	CC	TT	TT	INTERGENIC			
SNP_104553_A_60508	NW_004517302.1	scaffold2325	60508	AA	TT	TT	INTERGENIC			
SNP_104554_A_60620	NW_004517302.1	scaffold2325	60620	GG	AA	AA	INTERGENIC			
SNP_104555_A_60673	NW_004517302.1	scaffold2325	60673	CC	AA	AA	INTERGENIC			
SNP_104556_A_60788	NW_004517302.1	scaffold2325	60788	CC	TT	TT	INTERGENIC			
SNP_104557_A_13146	NW_004517303.1	scaffold2328	13146	TT	AA	AA	INTERGENIC			
SNP_104558_A_13392	NW_004517303.1	scaffold2328	13392	TT	CC	CC	INTERGENIC			
SNP_104559_A_13432	NW_004517303.1	scaffold2328	13432	GG	TT	TT	INTERGENIC			
SNP_104560_A_13454	NW_004517303.1	scaffold2328	13454	TT	CC	CC	INTERGENIC			
SNP_104561_A_13458	NW_004517303.1	scaffold2328	13458	AA	CC	CC	INTERGENIC			
SNP_104562_A_13459	NW_004517303.1	scaffold2328	13459	TT	CC	CC	INTERGENIC			
SNP_104563_A_13503	NW_004517303.1	scaffold2328	13503	CC	GG	GG	INTERGENIC			
SNP_104564_A_13573	NW_004517303.1	scaffold2328	13573	CC	TT	TT	INTERGENIC			
SNP_104566_A_13782	NW_004517303.1	scaffold2328	13782	AA	GG	GG	INTERGENIC			
SNP_104567_A_13939	NW_004517303.1	scaffold2328	13939	TT	GG	GG	INTERGENIC			
SNP_104568_A_13956	NW_004517303.1	scaffold2328	13956	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104569_A_44530	NW_004517305.1	scaffold2330	44530	GG	AA	AA	URR	101493090	sialidase-like
SNP_104570_A_44839	NW_004517305.1	scaffold2330	44839	AA	GG	GG	URR	101493090	sialidase-like
SNP_104571_A_73235	NW_004517305.1	scaffold2330	73235	GG	AA	AA	URR	101491757	uncharacterized LOC101491757
SNP_104572_A_94925	NW_004517305.1	scaffold2330	94925	AA	TT	TT	INTERGENIC		
SNP_104573_A_94933	NW_004517305.1	scaffold2330	94933	TT	AA	AA	INTERGENIC		
SNP_104574_A_95033	NW_004517305.1	scaffold2330	95033	CC	TT	TT	INTERGENIC		
SNP_104575_A_46	NW_004517306.1	scaffold2331	46	TT	CC	CC	INTERGENIC		
SNP_104577_A_627	NW_004517308.1	scaffold2334	627	AA	TT	TT	INTERGENIC		
SNP_104578_A_844	NW_004517308.1	scaffold2334	844	TT	CC	CC	INTERGENIC		
SNP_104579_A_64	NW_004517309.1	scaffold2337	64	GG	TT	TT	INTERGENIC		
SNP_104580_A_122	NW_004517309.1	scaffold2337	122	AA	GG	GG	INTERGENIC		
SNP_104581_A_2135	NW_004517309.1	scaffold2337	2135	AA	TT	TT	INTERGENIC		
SNP_104582_A_745	NW_004517313.1	scaffold2342	745	CC	TT	TT	INTERGENIC		
SNP_104583_A_981	NW_004517313.1	scaffold2342	981	CC	TT	TT	INTERGENIC		
SNP_104584_A_1020	NW_004517313.1	scaffold2342	1020	TT	AA	AA	INTERGENIC		
SNP_104585_A_12768	NW_004517313.1	scaffold2342	12768	AA	TT	TT	INTERGENIC		
SNP_104586_A_24252	NW_004517314.1	scaffold2343	24252	TT	CC	CC	INTERGENIC		
SNP_104587_A_32933	NW_004517314.1	scaffold2343	32933	CC	AA	AA	INTERGENIC		
SNP_104588_A_45823	NW_004517314.1	scaffold2343	45823	AA	GG	GG	INTERGENIC		
SNP_104589_A_948	NW_004517315.1	scaffold2344	948	TT	AA	AA	INTERGENIC		
SNP_104590_A_949	NW_004517315.1	scaffold2344	949	GG	TT	TT	INTERGENIC		
SNP_104591_A_1359	NW_004517315.1	scaffold2344	1359	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104592_A_1369	NW_004517315.1	scaffold2344	1369	TT	CC	CC	INTERGENIC			
SNP_104593_A_1521	NW_004517315.1	scaffold2344	1521	TT	CC	CC	INTERGENIC			
SNP_104595_A_529	NW_004517316.1	scaffold2345	529	CC	TT	TT	INTERGENIC			
SNP_104597_A_732	NW_004517316.1	scaffold2345	732	CC	GG	GG	INTERGENIC			
SNP_104598_A_796	NW_004517316.1	scaffold2345	796	AA	CC	CC	INTERGENIC			
SNP_104599_A_1655	NW_004517316.1	scaffold2345	1655	CC	TT	TT	INTERGENIC			
SNP_104600_A_1734	NW_004517316.1	scaffold2345	1734	TT	AA	AA	INTERGENIC			
SNP_104601_A_2862	NW_004517316.1	scaffold2345	2862	TT	AA	AA	INTERGENIC			
SNP_104602_A_11231	NW_004517316.1	scaffold2345	11231	CC	AA	AA	INTERGENIC			
SNP_104603_A_11515	NW_004517316.1	scaffold2345	11515	TT	CC	CC	INTERGENIC			
SNP_104605_A_20779	NW_004517316.1	scaffold2345	20779	CC	TT	TT	INTERGENIC			
SNP_104606_A_20895	NW_004517316.1	scaffold2345	20895	CC	TT	TT	INTERGENIC			
SNP_104607_A_21288	NW_004517316.1	scaffold2345	21288	TT	AA	AA	INTERGENIC			
SNP_104608_A_21335	NW_004517316.1	scaffold2345	21335	CC	AA	TT	INTERGENIC			
SNP_104610_A_433	NW_004517317.1	scaffold2346	433	TT	GG	GG	INTERGENIC			
SNP_104611_A_501	NW_004517317.1	scaffold2346	501	CC	AA	AA	INTERGENIC			
SNP_104612_A_569	NW_004517317.1	scaffold2346	569	AA	TT	TT	INTERGENIC			
SNP_104613_A_630	NW_004517317.1	scaffold2346	630	GG	AA	AA	INTERGENIC			
SNP_104614_A_700	NW_004517317.1	scaffold2346	700	TT	CC	CC	INTERGENIC			
SNP_104615_A_870	NW_004517317.1	scaffold2346	870	CC	AA	AA	INTERGENIC			
SNP_104616_A_898	NW_004517317.1	scaffold2346	898	TT	AA	AA	INTERGENIC			
SNP_104617_A_917	NW_004517317.1	scaffold2346	917	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104618_A_952	NW_004517317.1	scaffold2346	952	AA	TT	TT	INTERGENIC			
SNP_104619_A_972	NW_004517317.1	scaffold2346	972	CC	TT	TT	INTERGENIC			
SNP_104620_A_974	NW_004517317.1	scaffold2346	974	AA	GG	GG	INTERGENIC			
SNP_104621_A_989	NW_004517317.1	scaffold2346	989	CC	AA	AA	INTERGENIC			
SNP_104622_A_1008	NW_004517317.1	scaffold2346	1008	CC	TT	TT	INTERGENIC			
SNP_104623_A_1050	NW_004517317.1	scaffold2346	1050	GG	AA	AA	INTERGENIC			
SNP_104624_A_1137	NW_004517317.1	scaffold2346	1137	CC	TT	TT	INTERGENIC			
SNP_104625_A_1245	NW_004517317.1	scaffold2346	1245	TT	CC	CC	INTERGENIC			
SNP_104626_A_1254	NW_004517317.1	scaffold2346	1254	CC	TT	TT	INTERGENIC			
SNP_104627_A_1517	NW_004517317.1	scaffold2346	1517	TT	GG	GG	INTERGENIC			
SNP_104628_A_1524	NW_004517317.1	scaffold2346	1524	CC	TT	TT	INTERGENIC			
SNP_104629_A_3398	NW_004517317.1	scaffold2346	3398	CC	GG	GG	INTERGENIC			
SNP_104630_A_7457	NW_004517317.1	scaffold2346	7457	TT	CC	CC	INTERGENIC			
SNP_104631_A_7620	NW_004517317.1	scaffold2346	7620	AA	GG	GG	INTERGENIC			
SNP_104632_A_7627	NW_004517317.1	scaffold2346	7627	GG	AA	AA	INTERGENIC			
SNP_104633_A_26329	NW_004517317.1	scaffold2346	26329	TT	CC	CC	INTERGENIC			
SNP_104634_A_26336	NW_004517317.1	scaffold2346	26336	TT	GG	GG	INTERGENIC			
SNP_104635_A_26555	NW_004517317.1	scaffold2346	26555	GG	AA	AA	INTERGENIC			
SNP_104636_A_26591	NW_004517317.1	scaffold2346	26591	AA	CC	CC	INTERGENIC			
SNP_104637_A_26803	NW_004517317.1	scaffold2346	26803	AA	GG	GG	INTERGENIC			
SNP_104638_A_27704	NW_004517317.1	scaffold2346	27704	AA	GG	GG	INTERGENIC			
SNP_104639_A_27952	NW_004517317.1	scaffold2346	27952	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104640_A_28152	NW_004517317.1	scaffold2346	28152	CC	TT	TT	INTERGENIC			
SNP_104641_A_28160	NW_004517317.1	scaffold2346	28160	CC	TT	TT	INTERGENIC			
SNP_104642_A_28282	NW_004517317.1	scaffold2346	28282	AA	TT	TT	INTERGENIC			
SNP_104643_A_28378	NW_004517317.1	scaffold2346	28378	TT	GG	GG	INTERGENIC			
SNP_104645_A_28564	NW_004517317.1	scaffold2346	28564	GG	AA	AA	INTERGENIC			
SNP_104646_A_28574	NW_004517317.1	scaffold2346	28574	AA	GG	GG	INTERGENIC			
SNP_104647_A_28656	NW_004517317.1	scaffold2346	28656	CC	GG	GG	INTERGENIC			
SNP_104648_A_30471	NW_004517317.1	scaffold2346	30471	CC	TT	TT	INTERGENIC			
SNP_104649_A_30542	NW_004517317.1	scaffold2346	30542	GG	AA	AA	INTERGENIC			
SNP_104650_A_30637	NW_004517317.1	scaffold2346	30637	TT	AA	AA	INTERGENIC			
SNP_104651_A_30788	NW_004517317.1	scaffold2346	30788	TT	GG	GG	INTERGENIC			
SNP_104652_A_30811	NW_004517317.1	scaffold2346	30811	GG	TT	TT	INTERGENIC			
SNP_104653_A_30815	NW_004517317.1	scaffold2346	30815	TT	CC	CC	INTERGENIC			
SNP_104654_A_30816	NW_004517317.1	scaffold2346	30816	CC	TT	TT	INTERGENIC			
SNP_104655_A_30834	NW_004517317.1	scaffold2346	30834	CC	TT	TT	INTERGENIC			
SNP_104656_A_30880	NW_004517317.1	scaffold2346	30880	TT	CC	CC	INTERGENIC			
SNP_104657_A_31038	NW_004517317.1	scaffold2346	31038	AA	TT	TT	INTERGENIC			
SNP_104658_A_31142	NW_004517317.1	scaffold2346	31142	GG	AA	AA	INTERGENIC			
SNP_104659_A_31166	NW_004517317.1	scaffold2346	31166	TT	CC	CC	INTERGENIC			
SNP_104660_A_31206	NW_004517317.1	scaffold2346	31206	CC	TT	TT	INTERGENIC			
SNP_104661_A_31236	NW_004517317.1	scaffold2346	31236	TT	GG	GG	INTERGENIC			
SNP_104662_A_31281	NW_004517317.1	scaffold2346	31281	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104663_A_31286	NW_004517317.1	scaffold2346	31286	AA	GG	GG	INTERGENIC			
SNP_104664_A_31346	NW_004517317.1	scaffold2346	31346	CC	AA	AA	INTERGENIC			
SNP_104665_A_31369	NW_004517317.1	scaffold2346	31369	AA	GG	GG	INTERGENIC			
SNP_104666_A_1587	NW_004517319.1	scaffold2348	1587	TT	AA	AA	INTERGENIC			
SNP_104667_A_1911	NW_004517319.1	scaffold2348	1911	TT	CC	CC	INTERGENIC			
SNP_104668_A_2464	NW_004517319.1	scaffold2348	2464	GG	AA	AA	INTERGENIC			
SNP_104669_A_10033	NW_004517319.1	scaffold2348	10033	TT	GG	GG	INTERGENIC			
SNP_104670_A_10398	NW_004517319.1	scaffold2348	10398	GG	AA	AA	INTERGENIC			
SNP_104671_A_10412	NW_004517319.1	scaffold2348	10412	CC	TT	TT	INTERGENIC			
SNP_104672_A_10430	NW_004517319.1	scaffold2348	10430	TT	GG	GG	INTERGENIC			
SNP_104673_A_45836	NW_004517319.1	scaffold2348	45836	AA	GG	GG	INTERGENIC			
SNP_104674_A_45891	NW_004517319.1	scaffold2348	45891	TT	GG	GG	INTERGENIC			
SNP_104675_A_45898	NW_004517319.1	scaffold2348	45898	AA	GG	GG	INTERGENIC			
SNP_104676_A_45920	NW_004517319.1	scaffold2348	45920	CC	TT	TT	INTERGENIC			
SNP_104677_A_51978	NW_004517319.1	scaffold2348	51978	TT	AA	AA	INTERGENIC			
SNP_104678_A_52306	NW_004517319.1	scaffold2348	52306	GG	AA	AA	INTERGENIC			
SNP_104679_A_52329	NW_004517319.1	scaffold2348	52329	GG	AA	AA	INTERGENIC			
SNP_104680_A_63877	NW_004517319.1	scaffold2348	63877	TT	GG	GG	INTERGENIC			
SNP_104681_A_63988	NW_004517319.1	scaffold2348	63988	AA	CC	CC	INTERGENIC			
SNP_104682_A_64017	NW_004517319.1	scaffold2348	64017	CC	AA	AA	INTERGENIC			
SNP_104683_A_64181	NW_004517319.1	scaffold2348	64181	TT	AA	AA	INTERGENIC			
SNP_104684_A_64223	NW_004517319.1	scaffold2348	64223	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104685_A_64237	NW_004517319.1	scaffold2348	64237	GG	TT	TT	INTERGENIC			
SNP_104686_A_64280	NW_004517319.1	scaffold2348	64280	TT	CC	CC	INTERGENIC			
SNP_104687_A_64412	NW_004517319.1	scaffold2348	64412	GG	AA	AA	INTERGENIC			
SNP_104688_A_64493	NW_004517319.1	scaffold2348	64493	GG	CC	CC	INTERGENIC			
SNP_104689_A_64561	NW_004517319.1	scaffold2348	64561	GG	CC	CC	INTERGENIC			
SNP_104690_A_64564	NW_004517319.1	scaffold2348	64564	AA	GG	GG	INTERGENIC			
SNP_104691_A_64596	NW_004517319.1	scaffold2348	64596	GG	AA	AA	INTERGENIC			
SNP_104692_A_64610	NW_004517319.1	scaffold2348	64610	AA	CC	CC	INTERGENIC			
SNP_104693_A_64651	NW_004517319.1	scaffold2348	64651	AA	GG	GG	INTERGENIC			
SNP_104694_A_105736	NW_004517319.1	scaffold2348	105736	TT	CC	CC	INTERGENIC			
SNP_104695_A_105772	NW_004517319.1	scaffold2348	105772	TT	GG	GG	INTERGENIC			
SNP_104696_A_105783	NW_004517319.1	scaffold2348	105783	TT	CC	CC	INTERGENIC			
SNP_104697_A_105803	NW_004517319.1	scaffold2348	105803	AA	CC	CC	INTERGENIC			
SNP_104698_A_105804	NW_004517319.1	scaffold2348	105804	TT	AA	AA	INTERGENIC			
SNP_104699_A_111599	NW_004517319.1	scaffold2348	111599	TT	GG	GG	INTERGENIC			
SNP_104700_A_111651	NW_004517319.1	scaffold2348	111651	TT	AA	AA	INTERGENIC			
SNP_104701_A_113217	NW_004517319.1	scaffold2348	113217	CC	TT	TT	INTERGENIC			
SNP_104702_A_592	NW_004517320.1	scaffold2349	592	AA	GG	GG	INTERGENIC			
SNP_104703_A_641	NW_004517320.1	scaffold2349	641	TT	AA	AA	INTERGENIC			
SNP_104704_A_668	NW_004517320.1	scaffold2349	668	TT	AA	AA	INTERGENIC			
SNP_104705_A_1012	NW_004517320.1	scaffold2349	1012	TT	CC	CC	INTERGENIC			
SNP_104706_A_830	NW_004517323.1	scaffold2352	830	TT	CC	CC	DRR	101495978	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104707_A_891	NW_004517323.1	scaffold2352	891	TT	CC	CC	DRR	101495978	Unknown function
SNP_104708_A_955	NW_004517323.1	scaffold2352	955	AA	CC	CC	DRR	101495978	Unknown function
SNP_104709_A_962	NW_004517323.1	scaffold2352	962	GG	AA	AA	DRR	101495978	Unknown function
SNP_104710_A_977	NW_004517323.1	scaffold2352	977	TT	GG	GG	DRR	101495978	Unknown function
SNP_104711_A_1028	NW_004517323.1	scaffold2352	1028	CC	AA	AA	DRR	101495978	Unknown function
SNP_104712_A_1050	NW_004517323.1	scaffold2352	1050	AA	GG	GG	DRR	101495978	Unknown function
SNP_104713_A_1076	NW_004517323.1	scaffold2352	1076	AA	GG	GG	DRR	101495978	Unknown function
SNP_104714_A_1094	NW_004517323.1	scaffold2352	1094	AA	GG	GG	DRR	101495978	Unknown function
SNP_104715_A_1095	NW_004517323.1	scaffold2352	1095	AA	GG	GG	DRR	101495978	Unknown function
SNP_104716_A_1153	NW_004517323.1	scaffold2352	1153	CC	GG	GG	NON_SYNONYMOUS_CODING	101495978	Unknown function
SNP_104717_A_1175	NW_004517323.1	scaffold2352	1175	GG	AA	AA	SYNONYMOUS_CODING	101495978	Unknown function
SNP_104718_A_1201	NW_004517323.1	scaffold2352	1201	AA	GG	GG	NON_SYNONYMOUS_CODING	101495978	Unknown function
SNP_104719_A_1246	NW_004517323.1	scaffold2352	1246	GG	CC	CC	NON_SYNONYMOUS_CODING	101495978	Unknown function
SNP_104720_A_4199	NW_004517324.1	scaffold2354	4199	GG	AA	AA	INTERGENIC		
SNP_104721_A_4202	NW_004517324.1	scaffold2354	4202	TT	AA	AA	INTERGENIC		
SNP_104722_A_4220	NW_004517324.1	scaffold2354	4220	TT	AA	AA	INTERGENIC		
SNP_104723_A_4333	NW_004517324.1	scaffold2354	4333	TT	GG	GG	INTERGENIC		
SNP_104724_A_4349	NW_004517324.1	scaffold2354	4349	TT	AA	AA	INTERGENIC		
SNP_104725_A_4424	NW_004517324.1	scaffold2354	4424	GG	CC	CC	INTERGENIC		
SNP_104726_A_4434	NW_004517324.1	scaffold2354	4434	AA	TT	TT	INTERGENIC		
SNP_104727_A_6636	NW_004517324.1	scaffold2354	6636	GG	AA	AA	INTERGENIC		
SNP_104728_A_6663	NW_004517324.1	scaffold2354	6663	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104729_A_10653	NW_004517324.1	scaffold2354	10653	GG	AA	AA	INTERGENIC			
SNP_104730_A_10958	NW_004517324.1	scaffold2354	10958	AA	GG	GG	INTERGENIC			
SNP_104731_A_11328	NW_004517324.1	scaffold2354	11328	GG	CC	CC	INTERGENIC			
SNP_104732_A_12296	NW_004517324.1	scaffold2354	12296	AA	CC	CC	INTERGENIC			
SNP_104733_A_12452	NW_004517324.1	scaffold2354	12452	AA	CC	CC	INTERGENIC			
SNP_104734_A_12567	NW_004517324.1	scaffold2354	12567	AA	GG	GG	INTERGENIC			
SNP_104735_A_15347	NW_004517324.1	scaffold2354	15347	AA	TT	TT	INTERGENIC			
SNP_104736_A_15392	NW_004517324.1	scaffold2354	15392	GG	CC	CC	INTERGENIC			
SNP_104737_A_2959	NW_004517326.1	scaffold2356	2959	CC	TT	TT	INTERGENIC			
SNP_104738_A_3164	NW_004517326.1	scaffold2356	3164	TT	CC	CC	INTERGENIC			
SNP_104739_A_5746	NW_004517326.1	scaffold2356	5746	CC	TT	TT	INTERGENIC			
SNP_104740_A_24436	NW_004517326.1	scaffold2356	24436	GG	TT	TT	INTERGENIC			
SNP_104741_A_42586	NW_004517326.1	scaffold2356	42586	CC	AA	AA	INTERGENIC			
SNP_104742_A_45403	NW_004517326.1	scaffold2356	45403	AA	GG	GG	INTERGENIC			
SNP_104743_A_45425	NW_004517326.1	scaffold2356	45425	CC	TT	TT	INTERGENIC			
SNP_104744_A_45440	NW_004517326.1	scaffold2356	45440	TT	CC	CC	INTERGENIC			
SNP_104745_A_45445	NW_004517326.1	scaffold2356	45445	CC	TT	TT	INTERGENIC			
SNP_104746_A_45454	NW_004517326.1	scaffold2356	45454	AA	GG	GG	INTERGENIC			
SNP_104747_A_66161	NW_004517326.1	scaffold2356	66161	CC	AA	AA	INTERGENIC			
SNP_104748_A_66162	NW_004517326.1	scaffold2356	66162	TT	CC	CC	INTERGENIC			
SNP_104749_A_76885	NW_004517326.1	scaffold2356	76885	CC	GG	GG	INTERGENIC			
SNP_104751_A_135084	NW_004517326.1	scaffold2356	135084	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104752_A_135147	NW_004517326.1	scaffold2356	135147	TT	CC	CC	INTERGENIC		
SNP_104753_A_135162	NW_004517326.1	scaffold2356	135162	CC	TT	TT	INTERGENIC		
SNP_104755_A_136169	NW_004517326.1	scaffold2356	136169	CC	TT	TT	DRR	101496861	alcohol dehydrogenase-like 5
SNP_104756_A_136214	NW_004517326.1	scaffold2356	136214	AA	GG	GG	DRR	101496861	alcohol dehydrogenase-like 5
SNP_104757_A_136363	NW_004517326.1	scaffold2356	136363	TT	AA	AA	DRR	101496861	alcohol dehydrogenase-like 5
SNP_104758_A_136475	NW_004517326.1	scaffold2356	136475	GG	TT	TT	NON_SYNONYMOUS_CODING	101496861	alcohol dehydrogenase-like 5
SNP_104759_A_136767	NW_004517326.1	scaffold2356	136767	TT	GG	GG	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104760_A_136822	NW_004517326.1	scaffold2356	136822	TT	CC	CC	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104761_A_136835	NW_004517326.1	scaffold2356	136835	CC	TT	TT	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104762_A_136847	NW_004517326.1	scaffold2356	136847	GG	AA	AA	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104763_A_137025	NW_004517326.1	scaffold2356	137025	GG	AA	AA	NON_SYNONYMOUS_CODING	101496861	alcohol dehydrogenase-like 5
SNP_104764_A_138154	NW_004517326.1	scaffold2356	138154	TT	CC	CC	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104766_A_138664	NW_004517326.1	scaffold2356	138664	TT	GG	GG	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104767_A_138714	NW_004517326.1	scaffold2356	138714	CC	TT	TT	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104768_A_138729	NW_004517326.1	scaffold2356	138729	GG	AA	AA	INTRON	101496861	alcohol dehydrogenase-like 5
SNP_104771_A_147622	NW_004517326.1	scaffold2356	147622	GG	AA	AA	INTERGENIC		
SNP_104772_A_147994	NW_004517326.1	scaffold2356	147994	GG	TT	TT	INTERGENIC		
SNP_104773_A_181010	NW_004517326.1	scaffold2356	181010	AA	TT	TT	INTERGENIC		
SNP_104774_A_205643	NW_004517326.1	scaffold2356	205643	AA	CC	CC	INTRON	101498398	Unknown function
SNP_104775_A_205878	NW_004517326.1	scaffold2356	205878	AA	CC	CC	INTRON	101498398	Unknown function
SNP_104776_A_245039	NW_004517326.1	scaffold2356	245039	TT	CC	CC	INTRON	101498398	Unknown function
SNP_104777_A_257466	NW_004517326.1	scaffold2356	257466	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104778_A_269082	NW_004517326.1	scaffold2356	269082	GG	AA	AA	INTERGENIC			
SNP_104779_A_294255	NW_004517326.1	scaffold2356	294255	AA	GG	GG	INTERGENIC			
SNP_104780_A_294408	NW_004517326.1	scaffold2356	294408	GG	TT	TT	INTERGENIC			
SNP_104781_A_294696	NW_004517326.1	scaffold2356	294696	AA	GG	GG	INTERGENIC			
SNP_104782_A_294700	NW_004517326.1	scaffold2356	294700	TT	CC	CC	INTERGENIC			
SNP_104783_A_308325	NW_004517326.1	scaffold2356	308325	AA	GG	GG	INTERGENIC			
SNP_104784_A_308328	NW_004517326.1	scaffold2356	308328	GG	AA	AA	INTERGENIC			
SNP_104785_A_31021	NW_004517327.1	scaffold2357	31021	CC	TT	TT	INTERGENIC			
SNP_104786_A_159	NW_004517328.1	scaffold2358	159	TT	AA	AA	INTERGENIC			
SNP_104787_A_215	NW_004517328.1	scaffold2358	215	TT	CC	CC	INTERGENIC			
SNP_104788_A_259	NW_004517328.1	scaffold2358	259	GG	AA	AA	INTERGENIC			
SNP_104789_A_601	NW_004517328.1	scaffold2358	601	CC	AA	AA	INTERGENIC			
SNP_104790_A_662	NW_004517328.1	scaffold2358	662	AA	GG	GG	INTERGENIC			
SNP_104791_A_799	NW_004517328.1	scaffold2358	799	AA	GG	GG	INTERGENIC			
SNP_104792_A_873	NW_004517328.1	scaffold2358	873	AA	GG	GG	INTERGENIC			
SNP_104793_A_892	NW_004517328.1	scaffold2358	892	AA	GG	GG	INTERGENIC			
SNP_104794_A_921	NW_004517328.1	scaffold2358	921	TT	CC	CC	INTERGENIC			
SNP_104795_A_1010	NW_004517328.1	scaffold2358	1010	TT	CC	CC	INTERGENIC			
SNP_104796_A_1143	NW_004517328.1	scaffold2358	1143	TT	CC	CC	INTERGENIC			
SNP_104797_A_1171	NW_004517328.1	scaffold2358	1171	GG	CC	CC	INTERGENIC			
SNP_104799_A_1443	NW_004517328.1	scaffold2358	1443	AA	TT	TT	INTERGENIC			
SNP_104800_A_1508	NW_004517328.1	scaffold2358	1508	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104801_A_1521	NW_004517328.1	scaffold2358	1521	TT	AA	AA	INTERGENIC			
SNP_104802_A_1792	NW_004517328.1	scaffold2358	1792	CC	TT	TT	INTERGENIC			
SNP_104803_A_2249	NW_004517328.1	scaffold2358	2249	GG	TT	TT	INTERGENIC			
SNP_104804_A_2368	NW_004517328.1	scaffold2358	2368	TT	CC	CC	INTERGENIC			
SNP_104805_A_2384	NW_004517328.1	scaffold2358	2384	CC	TT	TT	INTERGENIC			
SNP_104806_A_2469	NW_004517328.1	scaffold2358	2469	AA	GG	GG	INTERGENIC			
SNP_104807_A_2500	NW_004517328.1	scaffold2358	2500	TT	CC	CC	INTERGENIC			
SNP_104808_A_2575	NW_004517328.1	scaffold2358	2575	AA	GG	GG	INTERGENIC			
SNP_104809_A_2748	NW_004517328.1	scaffold2358	2748	TT	CC	CC	INTERGENIC			
SNP_104810_A_13877	NW_004517328.1	scaffold2358	13877	CC	TT	TT	INTERGENIC			
SNP_104811_A_13885	NW_004517328.1	scaffold2358	13885	AA	GG	GG	INTERGENIC			
SNP_104812_A_16164	NW_004517328.1	scaffold2358	16164	TT	AA	AA	INTERGENIC			
SNP_104813_A_16274	NW_004517328.1	scaffold2358	16274	TT	CC	CC	INTERGENIC			
SNP_104814_A_16437	NW_004517328.1	scaffold2358	16437	GG	CC	CC	INTERGENIC			
SNP_104815_A_16446	NW_004517328.1	scaffold2358	16446	GG	AA	AA	INTERGENIC			
SNP_104816_A_16613	NW_004517328.1	scaffold2358	16613	TT	CC	CC	INTERGENIC			
SNP_104817_A_16646	NW_004517328.1	scaffold2358	16646	GG	CC	CC	INTERGENIC			
SNP_104818_A_16659	NW_004517328.1	scaffold2358	16659	TT	CC	CC	INTERGENIC			
SNP_104819_A_16678	NW_004517328.1	scaffold2358	16678	GG	AA	AA	INTERGENIC			
SNP_104820_A_16686	NW_004517328.1	scaffold2358	16686	AA	TT	TT	INTERGENIC			
SNP_104821_A_16688	NW_004517328.1	scaffold2358	16688	TT	CC	CC	INTERGENIC			
SNP_104822_A_16805	NW_004517328.1	scaffold2358	16805	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104823_A_16828	NW_004517328.1	scaffold2358	16828	CC	TT	TT	INTERGENIC		
SNP_104824_A_17474	NW_004517328.1	scaffold2358	17474	CC	GG	GG	INTERGENIC		
SNP_104825_A_17527	NW_004517328.1	scaffold2358	17527	AA	GG	GG	INTERGENIC		
SNP_104826_A_19696	NW_004517328.1	scaffold2358	19696	CC	TT	TT	INTERGENIC		
SNP_104827_A_19731	NW_004517328.1	scaffold2358	19731	TT	CC	CC	INTERGENIC		
SNP_104828_A_19782	NW_004517328.1	scaffold2358	19782	AA	CC	CC	INTERGENIC		
SNP_104829_A_19877	NW_004517328.1	scaffold2358	19877	AA	TT	TT	INTERGENIC		
SNP_104830_A_19878	NW_004517328.1	scaffold2358	19878	TT	GG	GG	INTERGENIC		
SNP_104831_A_20003	NW_004517328.1	scaffold2358	20003	TT	GG	GG	INTERGENIC		
SNP_104832_A_20744	NW_004517328.1	scaffold2358	20744	AA	TT	TT	INTERGENIC		
SNP_104833_A_36173	NW_004517328.1	scaffold2358	36173	AA	TT	TT	INTERGENIC		
SNP_104834_A_36223	NW_004517328.1	scaffold2358	36223	CC	AA	AA	INTERGENIC		
SNP_104835_A_36635	NW_004517328.1	scaffold2358	36635	GG	AA	AA	INTERGENIC		
SNP_104837_A_55127	NW_004517328.1	scaffold2358	55127	AA	GG	GG	DRR	101499986	uncharacterized LOC101499986
SNP_104838_A_55478	NW_004517328.1	scaffold2358	55478	TT	CC	CC	NON_SYNONYMOUS_CODING	101499986	uncharacterized LOC101499986
SNP_104839_A_13639	NW_004517330.1	scaffold2361	13639	AA	CC	CC	INTERGENIC		
SNP_104840_A_19123	NW_004517330.1	scaffold2361	19123	AA	TT	TT	INTERGENIC		
SNP_104841_A_19124	NW_004517330.1	scaffold2361	19124	AA	TT	TT	INTERGENIC		
SNP_104842_A_23619	NW_004517330.1	scaffold2361	23619	GG	AA	AA	INTERGENIC		
SNP_104843_A_40121	NW_004517330.1	scaffold2361	40121	AA	TT	TT	INTERGENIC		
SNP_104844_A_42220	NW_004517330.1	scaffold2361	42220	TT	CC	CC	INTERGENIC		
SNP_104845_A_45365	NW_004517330.1	scaffold2361	45365	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104846_A_45398	NW_004517330.1	scaffold2361	45398	AA	GG	GG	INTERGENIC			
SNP_104847_A_45471	NW_004517330.1	scaffold2361	45471	TT	CC	CC	INTERGENIC			
SNP_104848_A_45481	NW_004517330.1	scaffold2361	45481	CC	GG	GG	INTERGENIC			
SNP_104849_A_778	NW_004517333.1	scaffold2366	778	GG	AA	AA	INTERGENIC			
SNP_104850_A_19567	NW_004517333.1	scaffold2366	19567	GG	CC	CC	INTERGENIC			
SNP_104851_A_19626	NW_004517333.1	scaffold2366	19626	GG	AA	AA	INTERGENIC			
SNP_104852_A_19653	NW_004517333.1	scaffold2366	19653	CC	AA	AA	INTERGENIC			
SNP_104853_A_19774	NW_004517333.1	scaffold2366	19774	GG	AA	AA	INTERGENIC			
SNP_104854_A_19783	NW_004517333.1	scaffold2366	19783	GG	AA	AA	INTERGENIC			
SNP_104855_A_19807	NW_004517333.1	scaffold2366	19807	CC	TT	TT	INTERGENIC			
SNP_104856_A_19816	NW_004517333.1	scaffold2366	19816	GG	AA	AA	INTERGENIC			
SNP_104857_A_19848	NW_004517333.1	scaffold2366	19848	GG	AA	AA	INTERGENIC			
SNP_104858_A_19852	NW_004517333.1	scaffold2366	19852	GG	AA	AA	INTERGENIC			
SNP_104859_A_19870	NW_004517333.1	scaffold2366	19870	AA	GG	GG	INTERGENIC			
SNP_104860_A_19893	NW_004517333.1	scaffold2366	19893	AA	CC	CC	INTERGENIC			
SNP_104861_A_19960	NW_004517333.1	scaffold2366	19960	CC	TT	TT	INTERGENIC			
SNP_104862_A_21011	NW_004517333.1	scaffold2366	21011	AA	CC	CC	INTERGENIC			
SNP_104863_A_21040	NW_004517333.1	scaffold2366	21040	AA	CC	CC	INTERGENIC			
SNP_104864_A_21095	NW_004517333.1	scaffold2366	21095	GG	TT	TT	INTERGENIC			
SNP_104865_A_21243	NW_004517333.1	scaffold2366	21243	CC	TT	TT	INTERGENIC			
SNP_104866_A_21251	NW_004517333.1	scaffold2366	21251	GG	TT	TT	INTERGENIC			
SNP_104867_A_21252	NW_004517333.1	scaffold2366	21252	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104868_A_21258	NW_004517333.1	scaffold2366	21258	TT	CC	CC	INTERGENIC			
SNP_104869_A_21332	NW_004517333.1	scaffold2366	21332	TT	GG	GG	INTERGENIC			
SNP_104870_A_21370	NW_004517333.1	scaffold2366	21370	AA	GG	GG	INTERGENIC			
SNP_104871_A_21383	NW_004517333.1	scaffold2366	21383	TT	CC	CC	INTERGENIC			
SNP_104872_A_21730	NW_004517333.1	scaffold2366	21730	TT	GG	GG	INTERGENIC			
SNP_104873_A_24368	NW_004517333.1	scaffold2366	24368	GG	CC	CC	INTERGENIC			
SNP_104874_A_730	NW_004517334.1	scaffold2367	730	TT	AA	AA	INTERGENIC			
SNP_104875_A_745	NW_004517334.1	scaffold2367	745	AA	CC	CC	INTERGENIC			
SNP_104876_A_777	NW_004517334.1	scaffold2367	777	CC	GG	GG	INTERGENIC			
SNP_104877_A_823	NW_004517334.1	scaffold2367	823	AA	CC	CC	INTERGENIC			
SNP_104878_A_1872	NW_004517334.1	scaffold2367	1872	TT	AA	AA	INTERGENIC			
SNP_104879_A_6270	NW_004517334.1	scaffold2367	6270	TT	CC	CC	INTERGENIC			
SNP_104880_A_6521	NW_004517334.1	scaffold2367	6521	TT	GG	GG	INTERGENIC			
SNP_104881_A_2135	NW_004517335.1	scaffold2368	2135	TT	AA	AA	INTERGENIC			
SNP_104882_A_2804	NW_004517335.1	scaffold2368	2804	CC	GG	GG	INTERGENIC			
SNP_104883_A_25806	NW_004517335.1	scaffold2368	25806	TT	AA	AA	INTERGENIC			
SNP_104884_A_25842	NW_004517335.1	scaffold2368	25842	AA	CC	CC	INTERGENIC			
SNP_104885_A_25846	NW_004517335.1	scaffold2368	25846	TT	CC	CC	INTERGENIC			
SNP_104886_A_26085	NW_004517335.1	scaffold2368	26085	GG	TT	TT	INTERGENIC			
SNP_104887_A_26193	NW_004517335.1	scaffold2368	26193	AA	TT	TT	INTERGENIC			
SNP_104888_A_26287	NW_004517335.1	scaffold2368	26287	CC	TT	TT	INTERGENIC			
SNP_104889_A_26361	NW_004517335.1	scaffold2368	26361	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104890_A_26376	NW_004517335.1	scaffold2368	26376	CC	GG	GG	INTERGENIC		
SNP_104891_A_26401	NW_004517335.1	scaffold2368	26401	TT	GG	GG	INTERGENIC		
SNP_104892_A_26413	NW_004517335.1	scaffold2368	26413	AA	GG	GG	INTERGENIC		
SNP_104893_A_26458	NW_004517335.1	scaffold2368	26458	AA	TT	TT	INTERGENIC		
SNP_104894_A_40509	NW_004517335.1	scaffold2368	40509	CC	TT	TT	INTERGENIC		
SNP_104895_A_40511	NW_004517335.1	scaffold2368	40511	TT	AA	AA	INTERGENIC		
SNP_104897_A_53734	NW_004517335.1	scaffold2368	53734	GG	AA	AA	DRR	101500331	uncharacterized LOC101500331
SNP_104898_A_53761	NW_004517335.1	scaffold2368	53761	TT	AA	AA	DRR	101500331	uncharacterized LOC101500331
SNP_104899_A_53778	NW_004517335.1	scaffold2368	53778	GG	AA	AA	DRR	101500331	uncharacterized LOC101500331
SNP_104900_A_53790	NW_004517335.1	scaffold2368	53790	TT	CC	CC	DRR	101500331	uncharacterized LOC101500331
SNP_104901_A_53983	NW_004517335.1	scaffold2368	53983	AA	GG	GG	DRR	101500331	uncharacterized LOC101500331
SNP_104902_A_53988	NW_004517335.1	scaffold2368	53988	AA	CC	CC	DRR	101500331	uncharacterized LOC101500331
SNP_104903_A_53989	NW_004517335.1	scaffold2368	53989	CC	TT	TT	DRR	101500331	uncharacterized LOC101500331
SNP_104904_A_53990	NW_004517335.1	scaffold2368	53990	AA	TT	TT	DRR	101500331	uncharacterized LOC101500331
SNP_104905_A_54043	NW_004517335.1	scaffold2368	54043	GG	CC	CC	DRR	101500331	uncharacterized LOC101500331
SNP_104906_A_54045	NW_004517335.1	scaffold2368	54045	CC	GG	GG	DRR	101500331	uncharacterized LOC101500331
SNP_104907_A_54058	NW_004517335.1	scaffold2368	54058	CC	AA	AA	DRR	101500331	uncharacterized LOC101500331
SNP_104908_A_54089	NW_004517335.1	scaffold2368	54089	TT	CC	CC	DRR	101500331	uncharacterized LOC101500331
SNP_104911_A_54500	NW_004517335.1	scaffold2368	54500	GG	AA	AA	INTRON	id217744	Unknown function
SNP_104912_A_54563	NW_004517335.1	scaffold2368	54563	TT	CC	CC	INTRON	id217744	Unknown function
SNP_104913_A_54818	NW_004517335.1	scaffold2368	54818	AA	GG	GG	INTRON	id217744	Unknown function
SNP_104914_A_54829	NW_004517335.1	scaffold2368	54829	GG	TT	TT	INTRON	id217744	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104915_A_55139	NW_004517335.1	scaffold2368	55139	CC	TT	TT	INTRON	id217744	Unknown function
SNP_104916_A_55975	NW_004517335.1	scaffold2368	55975	CC	TT	TT	URR	101500331	uncharacterized LOC101500331
SNP_104918_A_60250	NW_004517335.1	scaffold2368	60250	CC	TT	TT	UPSTREAM	id217744	Unknown function
SNP_104919_A_72607	NW_004517338.1	scaffold2371	72607	TT	CC	CC	INTERGENIC		
SNP_104920_A_72643	NW_004517338.1	scaffold2371	72643	TT	CC	CC	INTERGENIC		
SNP_104921_A_72757	NW_004517338.1	scaffold2371	72757	GG	CC	CC	INTERGENIC		
SNP_104922_A_73060	NW_004517338.1	scaffold2371	73060	GG	AA	AA	INTERGENIC		
SNP_104924_A_73172	NW_004517338.1	scaffold2371	73172	TT	CC	CC	INTERGENIC		
SNP_104925_A_73258	NW_004517338.1	scaffold2371	73258	CC	TT	TT	INTERGENIC		
SNP_104926_A_73260	NW_004517338.1	scaffold2371	73260	GG	AA	AA	INTERGENIC		
SNP_104927_A_73264	NW_004517338.1	scaffold2371	73264	AA	GG	GG	INTERGENIC		
SNP_104928_A_73277	NW_004517338.1	scaffold2371	73277	AA	GG	GG	INTERGENIC		
SNP_104929_A_73289	NW_004517338.1	scaffold2371	73289	TT	CC	CC	INTERGENIC		
SNP_104930_A_73300	NW_004517338.1	scaffold2371	73300	AA	GG	TT	INTERGENIC		
SNP_104931_A_73320	NW_004517338.1	scaffold2371	73320	CC	TT	TT	INTERGENIC		
SNP_104933_A_73388	NW_004517338.1	scaffold2371	73388	TT	GG	GG	INTERGENIC		
SNP_104934_A_73517	NW_004517338.1	scaffold2371	73517	AA	CC	CC	INTERGENIC		
SNP_104935_A_73646	NW_004517338.1	scaffold2371	73646	GG	AA	AA	INTERGENIC		
SNP_104936_A_73724	NW_004517338.1	scaffold2371	73724	AA	GG	GG	INTERGENIC		
SNP_104937_A_73750	NW_004517338.1	scaffold2371	73750	GG	TT	TT	INTERGENIC		
SNP_104938_A_73751	NW_004517338.1	scaffold2371	73751	GG	CC	CC	INTERGENIC		
SNP_104940_A_73874	NW_004517338.1	scaffold2371	73874	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104941_A_73878	NW_004517338.1	scaffold2371	73878	CC	AA	AA	INTERGENIC			
SNP_104942_A_74041	NW_004517338.1	scaffold2371	74041	TT	AA	AA	INTERGENIC			
SNP_104943_A_74125	NW_004517338.1	scaffold2371	74125	AA	GG	GG	INTERGENIC			
SNP_104944_A_74252	NW_004517338.1	scaffold2371	74252	AA	TT	TT	INTERGENIC			
SNP_104945_A_74269	NW_004517338.1	scaffold2371	74269	CC	TT	TT	INTERGENIC			
SNP_104946_A_74386	NW_004517338.1	scaffold2371	74386	AA	GG	GG	INTERGENIC			
SNP_104947_A_74447	NW_004517338.1	scaffold2371	74447	GG	AA	AA	INTERGENIC			
SNP_104948_A_74493	NW_004517338.1	scaffold2371	74493	GG	AA	AA	INTERGENIC			
SNP_104949_A_74605	NW_004517338.1	scaffold2371	74605	TT	AA	AA	INTERGENIC			
SNP_104950_A_74606	NW_004517338.1	scaffold2371	74606	TT	AA	AA	INTERGENIC			
SNP_104951_A_74729	NW_004517338.1	scaffold2371	74729	TT	GG	GG	INTERGENIC			
SNP_104952_A_79815	NW_004517338.1	scaffold2371	79815	GG	AA	AA	INTERGENIC			
SNP_104953_A_92252	NW_004517338.1	scaffold2371	92252	GG	TT	TT	INTERGENIC			
SNP_104954_A_92297	NW_004517338.1	scaffold2371	92297	TT	GG	GG	INTERGENIC			
SNP_104955_A_92441	NW_004517338.1	scaffold2371	92441	CC	AA	AA	INTERGENIC			
SNP_104956_A_92822	NW_004517338.1	scaffold2371	92822	GG	CC	CC	INTERGENIC			
SNP_104957_A_92898	NW_004517338.1	scaffold2371	92898	AA	GG	GG	INTERGENIC			
SNP_104958_A_92962	NW_004517338.1	scaffold2371	92962	CC	GG	GG	INTERGENIC			
SNP_104959_A_125173	NW_004517338.1	scaffold2371	125173	AA	GG	GG	INTERGENIC			
SNP_104960_A_127786	NW_004517338.1	scaffold2371	127786	TT	CC	CC	INTERGENIC			
SNP_104961_A_127816	NW_004517338.1	scaffold2371	127816	TT	CC	CC	INTERGENIC			
SNP_104962_A_149904	NW_004517338.1	scaffold2371	149904	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_104964_A_150100	NW_004517338.1	scaffold2371	150100	AA	TT	TT	INTERGENIC			
SNP_104965_A_150233	NW_004517338.1	scaffold2371	150233	TT	AA	AA	INTERGENIC			
SNP_104966_A_150237	NW_004517338.1	scaffold2371	150237	TT	AA	AA	INTERGENIC			
SNP_104967_A_150240	NW_004517338.1	scaffold2371	150240	TT	AA	AA	INTERGENIC			
SNP_104968_A_150289	NW_004517338.1	scaffold2371	150289	AA	GG	GG	INTERGENIC			
SNP_104969_A_150308	NW_004517338.1	scaffold2371	150308	TT	AA	AA	INTERGENIC			
SNP_104970_A_150319	NW_004517338.1	scaffold2371	150319	AA	GG	GG	INTERGENIC			
SNP_104971_A_150493	NW_004517338.1	scaffold2371	150493	AA	TT	TT	INTERGENIC			
SNP_104972_A_162522	NW_004517338.1	scaffold2371	162522	GG	AA	AA	INTERGENIC			
SNP_104973_A_162526	NW_004517338.1	scaffold2371	162526	GG	AA	AA	INTERGENIC			
SNP_104974_A_168235	NW_004517338.1	scaffold2371	168235	AA	GG	GG	INTERGENIC			
SNP_104975_A_171998	NW_004517338.1	scaffold2371	171998	AA	GG	GG	INTERGENIC			
SNP_104976_A_172026	NW_004517338.1	scaffold2371	172026	AA	GG	GG	INTERGENIC			
SNP_104977_A_174298	NW_004517338.1	scaffold2371	174298	AA	GG	GG	INTERGENIC			
SNP_104978_A_199557	NW_004517338.1	scaffold2371	199557	TT	GG	GG	INTERGENIC			
SNP_104979_A_199579	NW_004517338.1	scaffold2371	199579	TT	CC	CC	INTERGENIC			
SNP_104980_A_199825	NW_004517338.1	scaffold2371	199825	GG	AA	AA	INTERGENIC			
SNP_104981_A_224528	NW_004517338.1	scaffold2371	224528	AA	GG	GG	INTERGENIC			
SNP_104982_A_224570	NW_004517338.1	scaffold2371	224570	GG	AA	AA	INTERGENIC			
SNP_104983_A_224572	NW_004517338.1	scaffold2371	224572	AA	GG	GG	INTERGENIC			
SNP_104984_A_244973	NW_004517338.1	scaffold2371	244973	AA	TT	TT	INTERGENIC			
SNP_104985_A_262113	NW_004517338.1	scaffold2371	262113	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_104986_A_262114	NW_004517338.1	scaffold2371	262114	CC	TT	TT	INTERGENIC		
SNP_104987_A_276900	NW_004517338.1	scaffold2371	276900	CC	TT	TT	INTERGENIC		
SNP_104989_A_288777	NW_004517338.1	scaffold2371	288777	CC	TT	TT	INTERGENIC		
SNP_104990_A_290041	NW_004517338.1	scaffold2371	290041	GG	TT	TT	INTERGENIC		
SNP_104991_A_290225	NW_004517338.1	scaffold2371	290225	TT	AA	AA	INTERGENIC		
SNP_104992_A_291054	NW_004517338.1	scaffold2371	291054	AA	CC	CC	INTERGENIC		
SNP_104993_A_291505	NW_004517338.1	scaffold2371	291505	AA	GG	GG	INTERGENIC		
SNP_104994_A_292110	NW_004517338.1	scaffold2371	292110	CC	TT	TT	INTERGENIC		
SNP_104995_A_292854	NW_004517338.1	scaffold2371	292854	GG	AA	AA	INTERGENIC		
SNP_104996_A_294881	NW_004517338.1	scaffold2371	294881	GG	AA	AA	INTERGENIC		
SNP_104998_A_340426	NW_004517338.1	scaffold2371	340426	AA	GG	GG	DRR	101503063	Unknown function
SNP_104999_A_342022	NW_004517338.1	scaffold2371	342022	GG	TT	TT	URR	101503063	Unknown function
SNP_105000_A_342034	NW_004517338.1	scaffold2371	342034	TT	CC	CC	URR	101503063	Unknown function
SNP_105001_A_342041	NW_004517338.1	scaffold2371	342041	GG	AA	AA	URR	101503063	Unknown function
SNP_105002_A_363618	NW_004517338.1	scaffold2371	363618	CC	TT	TT	INTERGENIC		
SNP_105003_A_363868	NW_004517338.1	scaffold2371	363868	AA	GG	GG	INTERGENIC		
SNP_105005_A_1847	NW_004517339.1	scaffold2372	1847	TT	CC	CC	INTERGENIC		
SNP_105006_A_1860	NW_004517339.1	scaffold2372	1860	CC	TT	TT	INTERGENIC		
SNP_105007_A_1862	NW_004517339.1	scaffold2372	1862	AA	TT	TT	INTERGENIC		
SNP_105008_A_1880	NW_004517339.1	scaffold2372	1880	GG	CC	CC	INTERGENIC		
SNP_105009_A_1991	NW_004517339.1	scaffold2372	1991	AA	TT	TT	INTERGENIC		
SNP_105010_A_1901	NW_004517340.1	scaffold2373	1901	AA	GG	GG	DRR	101506626	uncharacterized LOC101506626

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105011_A_2109	NW_004517340.1	scaffold2373	2109	TT	CC	CC	DRR	101506626	uncharacterized LOC101506626
SNP_105013_A_28669	NW_004517340.1	scaffold2373	28669	GG	CC	CC	URR	101504482	agamous-like MADS-box protein AGL17
SNP_105014_A_28746	NW_004517340.1	scaffold2373	28746	GG	AA	AA	URR	101504482	agamous-like MADS-box protein AGL17
SNP_105015_A_34337	NW_004517340.1	scaffold2373	34337	GG	TT	TT	INTRON	101506626	uncharacterized LOC101506626
SNP_105016_A_39436	NW_004517340.1	scaffold2373	39436	GG	AA	AA	INTRON	101506626	uncharacterized LOC101506626
SNP_105017_A_39464	NW_004517340.1	scaffold2373	39464	GG	TT	TT	INTRON	101506626	uncharacterized LOC101506626
SNP_105018_A_39643	NW_004517340.1	scaffold2373	39643	CC	GG	GG	INTRON	101506626	uncharacterized LOC101506626
SNP_105020_A_39723	NW_004517340.1	scaffold2373	39723	TT	CC	CC	INTRON	101506626	uncharacterized LOC101506626
SNP_105021_A_39967	NW_004517340.1	scaffold2373	39967	GG	TT	TT	INTRON	101506626	uncharacterized LOC101506626
SNP_105023_A_41866	NW_004517340.1	scaffold2373	41866	GG	AA	AA	INTRON	101506626	uncharacterized LOC101506626
SNP_105025_A_64194	NW_004517340.1	scaffold2373	64194	GG	AA	AA	URR	101506626	uncharacterized LOC101506626
SNP_105026_A_64304	NW_004517340.1	scaffold2373	64304	GG	TT	TT	URR	101506626	uncharacterized LOC101506626
SNP_105027_A_64320	NW_004517340.1	scaffold2373	64320	AA	CC	CC	URR	101506626	uncharacterized LOC101506626
SNP_105028_A_64359	NW_004517340.1	scaffold2373	64359	CC	GG	GG	URR	101506626	uncharacterized LOC101506626
SNP_105029_A_64706	NW_004517340.1	scaffold2373	64706	AA	GG	GG	URR	101506626	uncharacterized LOC101506626
SNP_105031_A_69636	NW_004517340.1	scaffold2373	69636	CC	TT	TT	INTERGENIC		
SNP_105032_A_69681	NW_004517340.1	scaffold2373	69681	AA	TT	TT	INTERGENIC		
SNP_105033_A_69733	NW_004517340.1	scaffold2373	69733	TT	CC	CC	INTERGENIC		
SNP_105034_A_81340	NW_004517340.1	scaffold2373	81340	GG	AA	AA	INTERGENIC		
SNP_105037_A_115573	NW_004517340.1	scaffold2373	115573	TT	CC	CC	INTERGENIC		
SNP_105038_A_115600	NW_004517340.1	scaffold2373	115600	CC	AA	AA	INTERGENIC		
SNP_105039_A_122318	NW_004517340.1	scaffold2373	122318	CC	TT	TT	INTRON	101507593	uncharacterized LOC101507593

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105040_A_124551	NW_004517340.1	scaffold2373	124551	AA	GG	GG	INTRON	101507593	uncharacterized LOC101507593
SNP_105041_A_124556	NW_004517340.1	scaffold2373	124556	GG	AA	AA	INTRON	101507593	uncharacterized LOC101507593
SNP_105042_A_124577	NW_004517340.1	scaffold2373	124577	TT	AA	AA	INTRON	101507593	uncharacterized LOC101507593
SNP_105043_A_124593	NW_004517340.1	scaffold2373	124593	TT	CC	CC	INTRON	101507593	uncharacterized LOC101507593
SNP_105044_A_124599	NW_004517340.1	scaffold2373	124599	TT	CC	CC	INTRON	101507593	uncharacterized LOC101507593
SNP_105045_A_124769	NW_004517340.1	scaffold2373	124769	AA	GG	GG	INTRON	101507593	uncharacterized LOC101507593
SNP_105046_A_124780	NW_004517340.1	scaffold2373	124780	CC	AA	AA	INTRON	101507593	uncharacterized LOC101507593
SNP_105047_A_124788	NW_004517340.1	scaffold2373	124788	CC	AA	AA	INTRON	101507593	uncharacterized LOC101507593
SNP_105048_A_124798	NW_004517340.1	scaffold2373	124798	GG	TT	TT	INTRON	101507593	uncharacterized LOC101507593
SNP_105049_A_124802	NW_004517340.1	scaffold2373	124802	TT	CC	CC	INTRON	101507593	uncharacterized LOC101507593
SNP_105050_A_124841	NW_004517340.1	scaffold2373	124841	CC	TT	TT	INTRON	101507593	uncharacterized LOC101507593
SNP_105051_A_124853	NW_004517340.1	scaffold2373	124853	GG	AA	AA	INTRON	101507593	uncharacterized LOC101507593
SNP_105052_A_124865	NW_004517340.1	scaffold2373	124865	CC	TT	TT	INTRON	101507593	uncharacterized LOC101507593
SNP_105053_A_124930	NW_004517340.1	scaffold2373	124930	TT	CC	CC	INTRON	101507593	uncharacterized LOC101507593
SNP_105054_A_149123	NW_004517340.1	scaffold2373	149123	TT	GG	GG	INTERGENIC		
SNP_105055_A_149285	NW_004517340.1	scaffold2373	149285	CC	TT	TT	INTERGENIC		
SNP_105056_A_149329	NW_004517340.1	scaffold2373	149329	CC	TT	TT	INTERGENIC		
SNP_105057_A_149367	NW_004517340.1	scaffold2373	149367	GG	TT	TT	INTERGENIC		
SNP_105058_A_149408	NW_004517340.1	scaffold2373	149408	GG	AA	AA	INTERGENIC		
SNP_105059_A_149578	NW_004517340.1	scaffold2373	149578	AA	GG	GG	INTERGENIC		
SNP_105060_A_149652	NW_004517340.1	scaffold2373	149652	AA	GG	GG	INTERGENIC		
SNP_105061_A_149716	NW_004517340.1	scaffold2373	149716	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105062_A_149971	NW_004517340.1	scaffold2373	149971	TT	CC	CC	INTERGENIC			
SNP_105063_A_150053	NW_004517340.1	scaffold2373	150053	TT	CC	CC	INTERGENIC			
SNP_105064_A_150122	NW_004517340.1	scaffold2373	150122	CC	TT	TT	INTERGENIC			
SNP_105065_A_150146	NW_004517340.1	scaffold2373	150146	TT	CC	CC	INTERGENIC			
SNP_105066_A_150184	NW_004517340.1	scaffold2373	150184	TT	CC	CC	INTERGENIC			
SNP_105067_A_151019	NW_004517340.1	scaffold2373	151019	AA	GG	GG	INTERGENIC			
SNP_105068_A_151064	NW_004517340.1	scaffold2373	151064	TT	CC	CC	INTERGENIC			
SNP_105069_A_151068	NW_004517340.1	scaffold2373	151068	GG	TT	TT	INTERGENIC			
SNP_105070_A_151070	NW_004517340.1	scaffold2373	151070	CC	TT	TT	INTERGENIC			
SNP_105071_A_151085	NW_004517340.1	scaffold2373	151085	TT	CC	CC	INTERGENIC			
SNP_105072_A_151327	NW_004517340.1	scaffold2373	151327	TT	CC	CC	INTERGENIC			
SNP_105073_A_151456	NW_004517340.1	scaffold2373	151456	TT	CC	CC	INTERGENIC			
SNP_105074_A_151833	NW_004517340.1	scaffold2373	151833	GG	AA	AA	INTERGENIC			
SNP_105075_A_152333	NW_004517340.1	scaffold2373	152333	TT	GG	GG	INTERGENIC			
SNP_105076_A_152521	NW_004517340.1	scaffold2373	152521	TT	CC	CC	INTERGENIC			
SNP_105077_A_152620	NW_004517340.1	scaffold2373	152620	GG	AA	AA	INTERGENIC			
SNP_105078_A_152704	NW_004517340.1	scaffold2373	152704	CC	GG	GG	INTERGENIC			
SNP_105079_A_152772	NW_004517340.1	scaffold2373	152772	AA	CC	CC	INTERGENIC			
SNP_105080_A_152870	NW_004517340.1	scaffold2373	152870	AA	CC	CC	INTERGENIC			
SNP_105081_A_2703	NW_004517342.1	scaffold2375	2703	AA	GG	GG	INTERGENIC			
SNP_105082_A_3377	NW_004517342.1	scaffold2375	3377	AA	GG	GG	INTERGENIC			
SNP_105083_A_3733	NW_004517342.1	scaffold2375	3733	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105084_A_1553	NW_004517343.1	scaffold2376	1553	AA	GG	GG	INTERGENIC			
SNP_105085_A_6496	NW_004517343.1	scaffold2376	6496	CC	AA	AA	INTERGENIC			
SNP_105086_A_9057	NW_004517343.1	scaffold2376	9057	CC	AA	AA	INTERGENIC			
SNP_105087_A_9343	NW_004517343.1	scaffold2376	9343	GG	CC	CC	INTERGENIC			
SNP_105088_A_9425	NW_004517343.1	scaffold2376	9425	AA	TT	TT	INTERGENIC			
SNP_105089_A_9426	NW_004517343.1	scaffold2376	9426	AA	CC	CC	INTERGENIC			
SNP_105090_A_12557	NW_004517343.1	scaffold2376	12557	GG	CC	CC	INTERGENIC			
SNP_105091_A_15614	NW_004517343.1	scaffold2376	15614	AA	CC	CC	INTERGENIC			
SNP_105092_A_15632	NW_004517343.1	scaffold2376	15632	AA	TT	TT	INTERGENIC			
SNP_105093_A_15889	NW_004517343.1	scaffold2376	15889	CC	GG	GG	INTERGENIC			
SNP_105094_A_15971	NW_004517343.1	scaffold2376	15971	CC	AA	AA	INTERGENIC			
SNP_105095_A_1000	NW_004517345.1	scaffold2378	1000	TT	AA	AA	INTERGENIC			
SNP_105096_A_1057	NW_004517345.1	scaffold2378	1057	CC	TT	TT	INTERGENIC			
SNP_105097_A_6436	NW_004517345.1	scaffold2378	6436	AA	GG	GG	INTERGENIC			
SNP_105098_A_17162	NW_004517345.1	scaffold2378	17162	CC	TT	TT	INTERGENIC			
SNP_105099_A_17197	NW_004517345.1	scaffold2378	17197	TT	CC	CC	INTERGENIC			
SNP_105101_A_17431	NW_004517345.1	scaffold2378	17431	CC	TT	TT	INTERGENIC			
SNP_105102_A_17459	NW_004517345.1	scaffold2378	17459	AA	TT	TT	INTERGENIC			
SNP_105103_A_17477	NW_004517345.1	scaffold2378	17477	GG	AA	AA	INTERGENIC			
SNP_105104_A_17524	NW_004517345.1	scaffold2378	17524	CC	TT	TT	INTERGENIC			
SNP_105105_A_17550	NW_004517345.1	scaffold2378	17550	TT	CC	CC	INTERGENIC			
SNP_105106_A_17579	NW_004517345.1	scaffold2378	17579	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105107_A_17637	NW_004517345.1	scaffold2378	17637	TT	CC	CC	INTERGENIC			
SNP_105108_A_17689	NW_004517345.1	scaffold2378	17689	TT	CC	CC	INTERGENIC			
SNP_105109_A_17706	NW_004517345.1	scaffold2378	17706	GG	TT	TT	INTERGENIC			
SNP_105110_A_17716	NW_004517345.1	scaffold2378	17716	GG	AA	AA	INTERGENIC			
SNP_105111_A_23149	NW_004517345.1	scaffold2378	23149	TT	CC	CC	INTERGENIC			
SNP_105112_A_23276	NW_004517345.1	scaffold2378	23276	AA	GG	GG	INTERGENIC			
SNP_105114_A_30241	NW_004517345.1	scaffold2378	30241	AA	TT	TT	INTERGENIC			
SNP_105115_A_30350	NW_004517345.1	scaffold2378	30350	AA	CC	CC	INTERGENIC			
SNP_105116_A_30396	NW_004517345.1	scaffold2378	30396	AA	GG	GG	INTERGENIC			
SNP_105117_A_37149	NW_004517345.1	scaffold2378	37149	GG	CC	CC	INTERGENIC			
SNP_105119_A_43065	NW_004517345.1	scaffold2378	43065	AA	GG	GG	INTERGENIC			
SNP_105120_A_985	NW_004517346.1	scaffold2380	985	AA	GG	GG	INTERGENIC			
SNP_105121_A_11672	NW_004517348.1	scaffold2382	11672	AA	GG	GG	INTERGENIC			
SNP_105122_A_11717	NW_004517348.1	scaffold2382	11717	AA	GG	GG	INTERGENIC			
SNP_105123_A_27024	NW_004517348.1	scaffold2382	27024	TT	AA	AA	INTERGENIC			
SNP_105124_A_28291	NW_004517348.1	scaffold2382	28291	GG	AA	AA	INTERGENIC			
SNP_105125_A_28297	NW_004517348.1	scaffold2382	28297	TT	AA	AA	INTERGENIC			
SNP_105126_A_28301	NW_004517348.1	scaffold2382	28301	TT	CC	CC	INTERGENIC			
SNP_105127_A_28495	NW_004517348.1	scaffold2382	28495	CC	TT	TT	NON_SYNONYMOUS_CODING	101508865	probable polygalacturonase At3g15720	
SNP_105128_A_476	NW_004517349.1	scaffold2383	476	GG	TT	TT	INTERGENIC			
SNP_105129_A_2259	NW_004517350.1	scaffold2385	2259	TT	GG	GG	INTERGENIC			
SNP_105130_A_2274	NW_004517350.1	scaffold2385	2274	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105131_A_2337	NW_004517350.1	scaffold2385	2337	AA	CC	CC	INTERGENIC			
SNP_105132_A_2393	NW_004517350.1	scaffold2385	2393	CC	AA	AA	INTERGENIC			
SNP_105133_A_2418	NW_004517350.1	scaffold2385	2418	CC	TT	TT	INTERGENIC			
SNP_105134_A_2724	NW_004517350.1	scaffold2385	2724	GG	AA	AA	INTERGENIC			
SNP_105135_A_2818	NW_004517350.1	scaffold2385	2818	GG	AA	AA	INTERGENIC			
SNP_105136_A_3415	NW_004517350.1	scaffold2385	3415	GG	AA	AA	INTERGENIC			
SNP_105137_A_3419	NW_004517350.1	scaffold2385	3419	TT	CC	CC	INTERGENIC			
SNP_105138_A_3476	NW_004517350.1	scaffold2385	3476	TT	AA	AA	INTERGENIC			
SNP_105139_A_3588	NW_004517350.1	scaffold2385	3588	AA	GG	GG	INTERGENIC			
SNP_105140_A_3696	NW_004517350.1	scaffold2385	3696	AA	CC	CC	INTERGENIC			
SNP_105143_A_5885	NW_004517350.1	scaffold2385	5885	TT	CC	CC	INTERGENIC			
SNP_105144_A_44499	NW_004517351.1	scaffold2386	44499	AA	GG	GG	INTERGENIC			
SNP_105145_A_44663	NW_004517351.1	scaffold2386	44663	GG	AA	AA	INTERGENIC			
SNP_105146_A_59654	NW_004517351.1	scaffold2386	59654	CC	GG	GG	INTERGENIC			
SNP_105147_A_178774	NW_004517351.1	scaffold2386	178774	CC	GG	GG	INTERGENIC			
SNP_105148_A_178796	NW_004517351.1	scaffold2386	178796	AA	GG	GG	INTERGENIC			
SNP_105149_A_178805	NW_004517351.1	scaffold2386	178805	AA	GG	GG	INTERGENIC			
SNP_105150_A_178809	NW_004517351.1	scaffold2386	178809	TT	CC	CC	INTERGENIC			
SNP_105151_A_178811	NW_004517351.1	scaffold2386	178811	AA	TT	TT	INTERGENIC			
SNP_105152_A_178873	NW_004517351.1	scaffold2386	178873	TT	GG	GG	INTERGENIC			
SNP_105153_A_179107	NW_004517351.1	scaffold2386	179107	TT	CC	CC	INTERGENIC			
SNP_105154_A_179145	NW_004517351.1	scaffold2386	179145	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105155_A_179149	NW_004517351.1	scaffold2386	179149	CC	GG	GG	INTERGENIC		
SNP_105156_A_179340	NW_004517351.1	scaffold2386	179340	AA	CC	CC	INTERGENIC		
SNP_105157_A_193951	NW_004517351.1	scaffold2386	193951	AA	GG	GG	NON_SYNONYMOUS_CODING	101510914	glucan endo-1,3-beta-glucosidase-like
SNP_105158_A_196852	NW_004517351.1	scaffold2386	196852	AA	GG	GG	INTRON	101510914	glucan endo-1,3-beta-glucosidase-like
SNP_105159_A_197012	NW_004517351.1	scaffold2386	197012	TT	GG	GG	INTRON	101510914	glucan endo-1,3-beta-glucosidase-like
SNP_105160_A_197036	NW_004517351.1	scaffold2386	197036	TT	CC	CC	INTRON	101510914	glucan endo-1,3-beta-glucosidase-like
SNP_105161_A_197229	NW_004517351.1	scaffold2386	197229	TT	CC	CC	INTRON	101510914	glucan endo-1,3-beta-glucosidase-like
SNP_105162_A_213183	NW_004517351.1	scaffold2386	213183	GG	AA	AA	INTERGENIC		
SNP_105163_A_213293	NW_004517351.1	scaffold2386	213293	AA	GG	GG	INTERGENIC		
SNP_105164_A_213781	NW_004517351.1	scaffold2386	213781	CC	TT	TT	INTERGENIC		
SNP_105165_A_214299	NW_004517351.1	scaffold2386	214299	GG	CC	CC	INTERGENIC		
SNP_105166_A_5824	NW_004517352.1	scaffold2388	5824	AA	GG	GG	INTERGENIC		
SNP_105167_A_7717	NW_004517352.1	scaffold2388	7717	CC	TT	TT	INTERGENIC		
SNP_105168_A_27769	NW_004517352.1	scaffold2388	27769	TT	GG	GG	INTERGENIC		
SNP_105169_A_377	NW_004517355.1	scaffold2392	377	CC	TT	TT	INTERGENIC		
SNP_105170_A_1515	NW_004517355.1	scaffold2392	1515	AA	CC	CC	INTERGENIC		
SNP_105171_A_1519	NW_004517355.1	scaffold2392	1519	AA	GG	GG	INTERGENIC		
SNP_105172_A_1588	NW_004517355.1	scaffold2392	1588	TT	AA	AA	INTERGENIC		
SNP_105173_A_1760	NW_004517355.1	scaffold2392	1760	AA	CC	CC	INTERGENIC		
SNP_105175_A_10908	NW_004517355.1	scaffold2392	10908	GG	AA	AA	INTERGENIC		
SNP_105176_A_10981	NW_004517355.1	scaffold2392	10981	CC	TT	TT	INTERGENIC		
SNP_105177_A_11214	NW_004517355.1	scaffold2392	11214	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105178_A_11327	NW_004517355.1	scaffold2392	11327	TT	GG	GG	INTERGENIC			
SNP_105179_A_17806	NW_004517355.1	scaffold2392	17806	CC	TT	TT	INTERGENIC			
SNP_105180_A_17812	NW_004517355.1	scaffold2392	17812	TT	CC	CC	INTERGENIC			
SNP_105181_A_17860	NW_004517355.1	scaffold2392	17860	GG	CC	CC	INTERGENIC			
SNP_105182_A_18007	NW_004517355.1	scaffold2392	18007	GG	CC	CC	INTERGENIC			
SNP_105184_A_18113	NW_004517355.1	scaffold2392	18113	AA	TT	TT	INTERGENIC			
SNP_105185_A_18795	NW_004517355.1	scaffold2392	18795	CC	TT	TT	INTERGENIC			
SNP_105186_A_18797	NW_004517355.1	scaffold2392	18797	TT	GG	GG	INTERGENIC			
SNP_105187_A_18811	NW_004517355.1	scaffold2392	18811	TT	AA	AA	INTERGENIC			
SNP_105188_A_18866	NW_004517355.1	scaffold2392	18866	AA	GG	GG	INTERGENIC			
SNP_105189_A_18873	NW_004517355.1	scaffold2392	18873	TT	CC	CC	INTERGENIC			
SNP_105190_A_18900	NW_004517355.1	scaffold2392	18900	TT	CC	CC	INTERGENIC			
SNP_105191_A_18950	NW_004517355.1	scaffold2392	18950	AA	GG	GG	INTERGENIC			
SNP_105192_A_19080	NW_004517355.1	scaffold2392	19080	TT	AA	AA	INTERGENIC			
SNP_105193_A_19455	NW_004517355.1	scaffold2392	19455	TT	AA	AA	INTERGENIC			
SNP_105194_A_19543	NW_004517355.1	scaffold2392	19543	GG	TT	TT	INTERGENIC			
SNP_105195_A_19592	NW_004517355.1	scaffold2392	19592	GG	AA	AA	INTERGENIC			
SNP_105196_A_19629	NW_004517355.1	scaffold2392	19629	AA	TT	TT	INTERGENIC			
SNP_105197_A_19702	NW_004517355.1	scaffold2392	19702	AA	TT	TT	INTERGENIC			
SNP_105198_A_19733	NW_004517355.1	scaffold2392	19733	GG	CC	CC	INTERGENIC			
SNP_105200_A_61088	NW_004517355.1	scaffold2392	61088	GG	AA	AA	INTERGENIC			
SNP_105202_A_96360	NW_004517355.1	scaffold2392	96360	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105203_A_96376	NW_004517355.1	scaffold2392	96376	CC	AA	AA	INTERGENIC		
SNP_105204_A_190520	NW_004517355.1	scaffold2392	190520	AA	GG	GG	URR	101488303	transcription factor TCP19-like
SNP_105205_A_193345	NW_004517355.1	scaffold2392	193345	CC	TT	TT	INTERGENIC		
SNP_105206_A_193348	NW_004517355.1	scaffold2392	193348	AA	GG	GG	INTERGENIC		
SNP_105207_A_280516	NW_004517355.1	scaffold2392	280516	AA	TT	TT	INTERGENIC		
SNP_105208_A_283586	NW_004517355.1	scaffold2392	283586	AA	GG	GG	INTERGENIC		
SNP_105210_A_322865	NW_004517355.1	scaffold2392	322865	GG	AA	AA	INTERGENIC		
SNP_105211_A_323193	NW_004517355.1	scaffold2392	323193	GG	CC	CC	INTERGENIC		
SNP_105212_A_325998	NW_004517355.1	scaffold2392	325998	CC	AA	AA	INTERGENIC		
SNP_105213_A_326017	NW_004517355.1	scaffold2392	326017	TT	GG	GG	INTERGENIC		
SNP_105215_A_326235	NW_004517355.1	scaffold2392	326235	CC	GG	GG	INTERGENIC		
SNP_105216_A_326260	NW_004517355.1	scaffold2392	326260	AA	CC	CC	INTERGENIC		
SNP_105217_A_354133	NW_004517355.1	scaffold2392	354133	AA	GG	GG	URR	101515105	DNA repair helicase UVH6
SNP_105219_A_354893	NW_004517355.1	scaffold2392	354893	GG	CC	CC	URR	101515105	DNA repair helicase UVH6
SNP_105223_A_355392	NW_004517355.1	scaffold2392	355392	TT	AA	AA	INTERGENIC		
SNP_105224_A_3755	NW_004517356.1	scaffold2394	3755	GG	TT	TT	INTERGENIC		
SNP_105225_A_3807	NW_004517356.1	scaffold2394	3807	GG	AA	AA	INTERGENIC		
SNP_105226_A_3927	NW_004517356.1	scaffold2394	3927	GG	AA	AA	INTERGENIC		
SNP_105227_A_1813	NW_004517358.1	scaffold2396	1813	AA	CC	CC	INTERGENIC		
SNP_105228_A_768	NW_004517359.1	scaffold2397	768	GG	CC	CC	INTERGENIC		
SNP_105229_A_790	NW_004517359.1	scaffold2397	790	TT	AA	AA	INTERGENIC		
SNP_105230_A_1136	NW_004517359.1	scaffold2397	1136	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105231_A_2612	NW_004517359.1	scaffold2397	2612	TT	CC	CC	INTERGENIC			
SNP_105233_A_558	NW_004517366.1	scaffold2409	558	GG	AA	AA	INTERGENIC			
SNP_105234_A_578	NW_004517367.1	scaffold2410	578	GG	AA	AA	INTERGENIC			
SNP_105235_A_7280	NW_004517367.1	scaffold2410	7280	CC	GG	GG	INTERGENIC			
SNP_105236_A_7597	NW_004517367.1	scaffold2410	7597	CC	AA	AA	INTERGENIC			
SNP_105237_A_7617	NW_004517367.1	scaffold2410	7617	AA	GG	GG	INTERGENIC			
SNP_105238_A_7622	NW_004517367.1	scaffold2410	7622	AA	GG	GG	INTERGENIC			
SNP_105239_A_7647	NW_004517367.1	scaffold2410	7647	TT	AA	AA	INTERGENIC			
SNP_105240_A_7698	NW_004517367.1	scaffold2410	7698	AA	TT	TT	INTERGENIC			
SNP_105241_A_7757	NW_004517367.1	scaffold2410	7757	TT	CC	CC	INTERGENIC			
SNP_105242_A_8044	NW_004517367.1	scaffold2410	8044	TT	CC	CC	INTERGENIC			
SNP_105243_A_12242	NW_004517367.1	scaffold2410	12242	AA	GG	GG	INTERGENIC			
SNP_105244_A_15354	NW_004517367.1	scaffold2410	15354	TT	AA	AA	INTERGENIC			
SNP_105245_A_16156	NW_004517367.1	scaffold2410	16156	CC	TT	TT	INTERGENIC			
SNP_105246_A_19369	NW_004517367.1	scaffold2410	19369	GG	AA	AA	INTERGENIC			
SNP_105247_A_33042	NW_004517367.1	scaffold2410	33042	AA	CC	CC	INTERGENIC			
SNP_105248_A_34524	NW_004517367.1	scaffold2410	34524	CC	TT	TT	INTERGENIC			
SNP_105249_A_8919	NW_004517369.1	scaffold2412	8919	AA	GG	GG	INTERGENIC			
SNP_105250_A_9232	NW_004517369.1	scaffold2412	9232	CC	TT	TT	INTERGENIC			
SNP_105251_A_9247	NW_004517369.1	scaffold2412	9247	AA	CC	CC	INTERGENIC			
SNP_105252_A_12836	NW_004517369.1	scaffold2412	12836	TT	CC	CC	INTERGENIC			
SNP_105253_A_12864	NW_004517369.1	scaffold2412	12864	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105254_A_12866	NW_004517369.1	scaffold2412	12866	GG	AA	AA	INTERGENIC			
SNP_105255_A_13184	NW_004517369.1	scaffold2412	13184	TT	CC	CC	INTERGENIC			
SNP_105256_A_18814	NW_004517369.1	scaffold2412	18814	TT	AA	AA	INTERGENIC			
SNP_105257_A_64258	NW_004517369.1	scaffold2412	64258	AA	GG	GG	INTERGENIC			
SNP_105258_A_66965	NW_004517369.1	scaffold2412	66965	CC	GG	GG	INTERGENIC			
SNP_105259_A_159	NW_004517370.1	scaffold2413	159	TT	GG	GG	INTERGENIC			
SNP_105260_A_500	NW_004517370.1	scaffold2413	500	AA	GG	GG	INTERGENIC			
SNP_105261_A_12575	NW_004517370.1	scaffold2413	12575	TT	GG	GG	INTERGENIC			
SNP_105262_A_12778	NW_004517370.1	scaffold2413	12778	GG	TT	TT	INTERGENIC			
SNP_105263_A_12791	NW_004517370.1	scaffold2413	12791	AA	TT	TT	INTERGENIC			
SNP_105264_A_12934	NW_004517370.1	scaffold2413	12934	AA	GG	GG	INTERGENIC			
SNP_105265_A_187	NW_004517371.1	scaffold2415	187	TT	CC	CC	INTERGENIC			
SNP_105266_A_221	NW_004517371.1	scaffold2415	221	TT	CC	CC	INTERGENIC			
SNP_105267_A_73099	NW_004517371.1	scaffold2415	73099	GG	AA	AA	INTERGENIC			
SNP_105268_A_73131	NW_004517371.1	scaffold2415	73131	CC	TT	TT	INTERGENIC			
SNP_105269_A_88977	NW_004517371.1	scaffold2415	88977	TT	CC	CC	INTERGENIC			
SNP_105273_A_8411	NW_004517375.1	scaffold2421	8411	AA	TT	TT	INTERGENIC			
SNP_105274_A_8519	NW_004517375.1	scaffold2421	8519	TT	CC	CC	INTERGENIC			
SNP_105275_A_24823	NW_004517375.1	scaffold2421	24823	AA	GG	GG	INTERGENIC			
SNP_105276_A_24843	NW_004517375.1	scaffold2421	24843	TT	CC	CC	INTERGENIC			
SNP_105277_A_24919	NW_004517375.1	scaffold2421	24919	CC	GG	GG	INTERGENIC			
SNP_105278_A_25154	NW_004517375.1	scaffold2421	25154	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105279_A_25239	NW_004517375.1	scaffold2421	25239	TT	AA	AA	INTERGENIC			
SNP_105280_A_25396	NW_004517375.1	scaffold2421	25396	CC	AA	AA	INTERGENIC			
SNP_105281_A_33789	NW_004517375.1	scaffold2421	33789	GG	AA	AA	INTERGENIC			
SNP_105282_A_34345	NW_004517375.1	scaffold2421	34345	GG	AA	AA	INTERGENIC			
SNP_105283_A_34347	NW_004517375.1	scaffold2421	34347	AA	CC	CC	INTERGENIC			
SNP_105284_A_34403	NW_004517375.1	scaffold2421	34403	TT	AA	AA	INTERGENIC			
SNP_105285_A_34411	NW_004517375.1	scaffold2421	34411	CC	GG	GG	INTERGENIC			
SNP_105286_A_34517	NW_004517375.1	scaffold2421	34517	TT	AA	AA	INTERGENIC			
SNP_105287_A_34563	NW_004517375.1	scaffold2421	34563	CC	GG	GG	INTERGENIC			
SNP_105288_A_34638	NW_004517375.1	scaffold2421	34638	TT	AA	AA	INTERGENIC			
SNP_105289_A_34843	NW_004517375.1	scaffold2421	34843	CC	GG	GG	INTERGENIC			
SNP_105290_A_39827	NW_004517375.1	scaffold2421	39827	AA	GG	GG	INTERGENIC			
SNP_105291_A_39829	NW_004517375.1	scaffold2421	39829	AA	CC	CC	INTERGENIC			
SNP_105292_A_39836	NW_004517375.1	scaffold2421	39836	CC	AA	AA	INTERGENIC			
SNP_105293_A_40198	NW_004517375.1	scaffold2421	40198	TT	CC	CC	INTERGENIC			
SNP_105294_A_40199	NW_004517375.1	scaffold2421	40199	CC	AA	AA	INTERGENIC			
SNP_105295_A_40288	NW_004517375.1	scaffold2421	40288	CC	TT	TT	INTERGENIC			
SNP_105296_A_40305	NW_004517375.1	scaffold2421	40305	GG	AA	AA	INTERGENIC			
SNP_105297_A_40407	NW_004517375.1	scaffold2421	40407	TT	CC	CC	INTERGENIC			
SNP_105298_A_40451	NW_004517375.1	scaffold2421	40451	GG	AA	AA	INTERGENIC			
SNP_105299_A_46567	NW_004517375.1	scaffold2421	46567	CC	GG	GG	INTERGENIC			
SNP_105300_A_47638	NW_004517375.1	scaffold2421	47638	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105301_A_47655	NW_004517375.1	scaffold2421	47655	TT	AA	AA	INTERGENIC			
SNP_105302_A_48511	NW_004517375.1	scaffold2421	48511	CC	TT	TT	INTERGENIC			
SNP_105303_A_48748	NW_004517375.1	scaffold2421	48748	AA	TT	TT	INTERGENIC			
SNP_105304_A_48774	NW_004517375.1	scaffold2421	48774	CC	AA	AA	INTERGENIC			
SNP_105305_A_48858	NW_004517375.1	scaffold2421	48858	AA	GG	GG	INTERGENIC			
SNP_105306_A_48893	NW_004517375.1	scaffold2421	48893	CC	TT	TT	INTERGENIC			
SNP_105307_A_49149	NW_004517375.1	scaffold2421	49149	GG	AA	AA	INTERGENIC			
SNP_105308_A_49273	NW_004517375.1	scaffold2421	49273	TT	CC	CC	INTERGENIC			
SNP_105309_A_49440	NW_004517375.1	scaffold2421	49440	GG	TT	TT	INTERGENIC			
SNP_105310_A_49444	NW_004517375.1	scaffold2421	49444	GG	TT	TT	INTERGENIC			
SNP_105311_A_50175	NW_004517375.1	scaffold2421	50175	AA	GG	GG	INTERGENIC			
SNP_105312_A_50288	NW_004517375.1	scaffold2421	50288	TT	AA	AA	INTERGENIC			
SNP_105313_A_50300	NW_004517375.1	scaffold2421	50300	CC	TT	TT	INTERGENIC			
SNP_105314_A_59419	NW_004517375.1	scaffold2421	59419	TT	AA	AA	INTERGENIC			
SNP_105315_A_60418	NW_004517375.1	scaffold2421	60418	TT	CC	CC	INTERGENIC			
SNP_105316_A_60462	NW_004517375.1	scaffold2421	60462	AA	CC	CC	INTERGENIC			
SNP_105317_A_60465	NW_004517375.1	scaffold2421	60465	TT	AA	AA	INTERGENIC			
SNP_105318_A_60467	NW_004517375.1	scaffold2421	60467	TT	AA	AA	INTERGENIC			
SNP_105319_A_60468	NW_004517375.1	scaffold2421	60468	TT	CC	CC	INTERGENIC			
SNP_105320_A_60471	NW_004517375.1	scaffold2421	60471	AA	GG	GG	INTERGENIC			
SNP_105321_A_60543	NW_004517375.1	scaffold2421	60543	CC	TT	TT	INTERGENIC			
SNP_105322_A_60563	NW_004517375.1	scaffold2421	60563	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105323_A_60600	NW_004517375.1	scaffold2421	60600	TT	CC	CC	INTERGENIC			
SNP_105324_A_60656	NW_004517375.1	scaffold2421	60656	AA	CC	CC	INTERGENIC			
SNP_105325_A_60832	NW_004517375.1	scaffold2421	60832	CC	TT	TT	INTERGENIC			
SNP_105326_A_60977	NW_004517375.1	scaffold2421	60977	AA	GG	GG	INTERGENIC			
SNP_105327_A_61070	NW_004517375.1	scaffold2421	61070	CC	AA	AA	INTERGENIC			
SNP_105328_A_2977	NW_004517380.1	scaffold2430	2977	AA	GG	GG	INTERGENIC			
SNP_105329_A_2985	NW_004517380.1	scaffold2430	2985	TT	AA	AA	INTERGENIC			
SNP_105330_A_3027	NW_004517380.1	scaffold2430	3027	GG	TT	TT	INTERGENIC			
SNP_105331_A_1641	NW_004517383.1	scaffold2433	1641	AA	GG	GG	INTERGENIC			
SNP_105332_A_1935	NW_004517383.1	scaffold2433	1935	AA	GG	GG	INTERGENIC			
SNP_105333_A_2145	NW_004517383.1	scaffold2433	2145	AA	GG	GG	INTERGENIC			
SNP_105334_A_2458	NW_004517383.1	scaffold2433	2458	CC	TT	TT	INTERGENIC			
SNP_105336_A_2535	NW_004517383.1	scaffold2433	2535	GG	AA	AA	INTERGENIC			
SNP_105337_A_3309	NW_004517383.1	scaffold2433	3309	GG	AA	AA	INTERGENIC			
SNP_105338_A_16673	NW_004517383.1	scaffold2433	16673	GG	AA	AA	INTERGENIC			
SNP_105339_A_16706	NW_004517383.1	scaffold2433	16706	AA	GG	GG	INTERGENIC			
SNP_105340_A_16761	NW_004517383.1	scaffold2433	16761	CC	TT	TT	INTERGENIC			
SNP_105341_A_16830	NW_004517383.1	scaffold2433	16830	AA	GG	GG	INTERGENIC			
SNP_105342_A_16922	NW_004517383.1	scaffold2433	16922	AA	GG	GG	INTERGENIC			
SNP_105343_A_17050	NW_004517383.1	scaffold2433	17050	CC	TT	TT	INTERGENIC			
SNP_105344_A_2939	NW_004517384.1	scaffold2434	2939	GG	AA	AA	INTERGENIC			
SNP_105345_A_3352	NW_004517384.1	scaffold2434	3352	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105346_A_6705	NW_004517384.1	scaffold2434	6705	CC	AA	AA	INTERGENIC			
SNP_105347_A_6778	NW_004517384.1	scaffold2434	6778	CC	AA	AA	INTERGENIC			
SNP_105348_A_6789	NW_004517384.1	scaffold2434	6789	AA	TT	TT	INTERGENIC			
SNP_105349_A_13033	NW_004517384.1	scaffold2434	13033	AA	TT	TT	INTERGENIC			
SNP_105350_A_13054	NW_004517384.1	scaffold2434	13054	TT	CC	CC	INTERGENIC			
SNP_105351_A_13056	NW_004517384.1	scaffold2434	13056	GG	AA	AA	INTERGENIC			
SNP_105352_A_15789	NW_004517384.1	scaffold2434	15789	AA	TT	TT	INTERGENIC			
SNP_105353_A_17996	NW_004517384.1	scaffold2434	17996	CC	TT	TT	INTERGENIC			
SNP_105354_A_18089	NW_004517384.1	scaffold2434	18089	TT	CC	CC	INTERGENIC			
SNP_105355_A_18341	NW_004517384.1	scaffold2434	18341	TT	CC	CC	INTERGENIC			
SNP_105356_A_18346	NW_004517384.1	scaffold2434	18346	CC	TT	TT	INTERGENIC			
SNP_105357_A_28794	NW_004517384.1	scaffold2434	28794	CC	TT	TT	INTERGENIC			
SNP_105358_A_28811	NW_004517384.1	scaffold2434	28811	GG	TT	TT	INTERGENIC			
SNP_105359_A_29448	NW_004517384.1	scaffold2434	29448	TT	AA	AA	INTERGENIC			
SNP_105360_A_29472	NW_004517384.1	scaffold2434	29472	TT	GG	GG	INTERGENIC			
SNP_105361_A_29490	NW_004517384.1	scaffold2434	29490	AA	TT	TT	INTERGENIC			
SNP_105362_A_29700	NW_004517384.1	scaffold2434	29700	TT	CC	CC	INTERGENIC			
SNP_105363_A_29727	NW_004517384.1	scaffold2434	29727	TT	CC	CC	INTERGENIC			
SNP_105364_A_29914	NW_004517384.1	scaffold2434	29914	CC	TT	TT	INTERGENIC			
SNP_105365_A_44876	NW_004517384.1	scaffold2434	44876	GG	AA	AA	INTERGENIC			
SNP_105366_A_44908	NW_004517384.1	scaffold2434	44908	TT	AA	AA	INTERGENIC			
SNP_105367_A_44955	NW_004517384.1	scaffold2434	44955	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105368_A_45100	NW_004517384.1	scaffold2434	45100	AA	TT	TT	INTERGENIC			
SNP_105369_A_45356	NW_004517384.1	scaffold2434	45356	TT	AA	AA	INTERGENIC			
SNP_105370_A_45399	NW_004517384.1	scaffold2434	45399	AA	TT	TT	INTERGENIC			
SNP_105371_A_45410	NW_004517384.1	scaffold2434	45410	TT	AA	AA	INTERGENIC			
SNP_105372_A_45745	NW_004517384.1	scaffold2434	45745	AA	GG	GG	INTERGENIC			
SNP_105373_A_66655	NW_004517384.1	scaffold2434	66655	GG	AA	AA	INTERGENIC			
SNP_105374_A_71522	NW_004517384.1	scaffold2434	71522	TT	CC	CC	INTERGENIC			
SNP_105375_A_71524	NW_004517384.1	scaffold2434	71524	AA	GG	GG	INTERGENIC			
SNP_105376_A_71539	NW_004517384.1	scaffold2434	71539	TT	AA	AA	INTERGENIC			
SNP_105377_A_71671	NW_004517384.1	scaffold2434	71671	TT	GG	GG	INTERGENIC			
SNP_105378_A_72120	NW_004517384.1	scaffold2434	72120	AA	GG	GG	INTERGENIC			
SNP_105379_A_72149	NW_004517384.1	scaffold2434	72149	CC	TT	TT	INTERGENIC			
SNP_105380_A_72165	NW_004517384.1	scaffold2434	72165	TT	CC	CC	INTERGENIC			
SNP_105381_A_72188	NW_004517384.1	scaffold2434	72188	AA	TT	TT	INTERGENIC			
SNP_105384_A_76785	NW_004517384.1	scaffold2434	76785	GG	TT	TT	INTERGENIC			
SNP_105385_A_119	NW_004517388.1	scaffold2440	119	TT	AA	AA	INTERGENIC			
SNP_105386_A_1048	NW_004517388.1	scaffold2440	1048	AA	CC	CC	INTERGENIC			
SNP_105387_A_1196	NW_004517388.1	scaffold2440	1196	AA	GG	GG	INTERGENIC			
SNP_105388_A_1207	NW_004517388.1	scaffold2440	1207	AA	TT	TT	INTERGENIC			
SNP_105389_A_3335	NW_004517389.1	scaffold2441	3335	GG	CC	CC	INTERGENIC			
SNP_105390_A_10873	NW_004517392.1	scaffold2445	10873	CC	TT	TT	INTERGENIC			
SNP_105391_A_10976	NW_004517392.1	scaffold2445	10976	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105392_A_10989	NW_004517392.1	scaffold2445	10989	TT	AA	AA	INTERGENIC		
SNP_105393_A_1488	NW_004517393.1	scaffold2446	1488	GG	AA	AA	INTERGENIC		
SNP_105394_A_5151	NW_004517393.1	scaffold2446	5151	AA	TT	TT	DRR	101491978	Unknown function
SNP_105395_A_6003	NW_004517393.1	scaffold2446	6003	GG	AA	AA	INTRON	101491978	Unknown function
SNP_105396_A_6023	NW_004517393.1	scaffold2446	6023	TT	CC	CC	INTRON	101491978	Unknown function
SNP_105397_A_6229	NW_004517393.1	scaffold2446	6229	CC	AA	AA	INTRON	101491978	Unknown function
SNP_105398_A_6466	NW_004517393.1	scaffold2446	6466	TT	CC	CC	INTRON	101491978	Unknown function
SNP_105399_A_6517	NW_004517393.1	scaffold2446	6517	AA	CC	CC	INTRON	101491978	Unknown function
SNP_105400_A_6857	NW_004517393.1	scaffold2446	6857	GG	AA	AA	INTRON	101491978	Unknown function
SNP_105401_A_6872	NW_004517393.1	scaffold2446	6872	CC	AA	AA	INTRON	101491978	Unknown function
SNP_105402_A_7221	NW_004517393.1	scaffold2446	7221	TT	CC	CC	INTRON	101491978	Unknown function
SNP_105404_A_9237	NW_004517393.1	scaffold2446	9237	CC	TT	TT	INTRON	101491978	Unknown function
SNP_105405_A_10077	NW_004517393.1	scaffold2446	10077	TT	AA	AA	INTRON	101491978	Unknown function
SNP_105406_A_1790	NW_004517398.1	scaffold2456	1790	CC	TT	TT	INTERGENIC		
SNP_105407_A_1800	NW_004517398.1	scaffold2456	1800	GG	AA	AA	INTERGENIC		
SNP_105408_A_5785	NW_004517398.1	scaffold2456	5785	AA	TT	TT	INTERGENIC		
SNP_105409_A_20092	NW_004517401.1	scaffold2459	20092	CC	TT	TT	INTERGENIC		
SNP_105410_A_20166	NW_004517401.1	scaffold2459	20166	TT	CC	CC	INTERGENIC		
SNP_105411_A_20180	NW_004517401.1	scaffold2459	20180	AA	CC	CC	INTERGENIC		
SNP_105412_A_35616	NW_004517401.1	scaffold2459	35616	AA	GG	GG	INTERGENIC		
SNP_105413_A_37693	NW_004517401.1	scaffold2459	37693	AA	GG	GG	INTERGENIC		
SNP_105414_A_37823	NW_004517401.1	scaffold2459	37823	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105415_A_42218	NW_004517401.1	scaffold2459	42218	AA	CC	CC	INTERGENIC			
SNP_105416_A_42356	NW_004517401.1	scaffold2459	42356	TT	GG	GG	INTERGENIC			
SNP_105417_A_42397	NW_004517401.1	scaffold2459	42397	AA	CC	CC	INTERGENIC			
SNP_105418_A_46427	NW_004517401.1	scaffold2459	46427	TT	CC	CC	INTERGENIC			
SNP_105419_A_50880	NW_004517401.1	scaffold2459	50880	GG	AA	AA	INTERGENIC			
SNP_105420_A_59386	NW_004517401.1	scaffold2459	59386	CC	TT	TT	INTERGENIC			
SNP_105421_A_59448	NW_004517401.1	scaffold2459	59448	TT	GG	GG	INTERGENIC			
SNP_105422_A_65579	NW_004517401.1	scaffold2459	65579	TT	CC	CC	INTERGENIC			
SNP_105423_A_66095	NW_004517401.1	scaffold2459	66095	TT	CC	CC	INTERGENIC			
SNP_105424_A_66342	NW_004517401.1	scaffold2459	66342	AA	GG	GG	INTERGENIC			
SNP_105425_A_66397	NW_004517401.1	scaffold2459	66397	CC	TT	TT	INTERGENIC			
SNP_105426_A_72240	NW_004517401.1	scaffold2459	72240	CC	AA	AA	INTERGENIC			
SNP_105427_A_72242	NW_004517401.1	scaffold2459	72242	GG	TT	TT	INTERGENIC			
SNP_105428_A_72611	NW_004517401.1	scaffold2459	72611	CC	TT	TT	INTERGENIC			
SNP_105429_A_190	NW_004517406.1	scaffold2467	190	AA	GG	GG	INTERGENIC			
SNP_105430_A_11297	NW_004517408.1	scaffold2470	11297	AA	TT	TT	INTERGENIC			
SNP_105431_A_11325	NW_004517408.1	scaffold2470	11325	TT	CC	CC	INTERGENIC			
SNP_105432_A_251	NW_004517409.1	scaffold2471	251	TT	GG	GG	INTERGENIC			
SNP_105433_A_281	NW_004517409.1	scaffold2471	281	CC	AA	AA	INTERGENIC			
SNP_105434_A_403	NW_004517409.1	scaffold2471	403	CC	TT	TT	INTERGENIC			
SNP_105435_A_952	NW_004517409.1	scaffold2471	952	CC	TT	TT	INTERGENIC			
SNP_105436_A_959	NW_004517409.1	scaffold2471	959	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105437_A_1322	NW_004517409.1	scaffold2471	1322	TT	AA	AA	INTERGENIC			
SNP_105438_A_966	NW_004517410.1	scaffold2472	966	AA	CC	CC	INTERGENIC			
SNP_105439_A_1020	NW_004517410.1	scaffold2472	1020	AA	GG	GG	INTERGENIC			
SNP_105440_A_2731	NW_004517411.1	scaffold2473	2731	GG	CC	CC	INTERGENIC			
SNP_105441_A_6417	NW_004517411.1	scaffold2473	6417	CC	TT	TT	URR	101492976	Unknown function	
SNP_105442_A_6439	NW_004517411.1	scaffold2473	6439	GG	AA	AA	URR	101492976	Unknown function	
SNP_105443_A_6674	NW_004517411.1	scaffold2473	6674	TT	CC	CC	INTERGENIC			
SNP_105444_A_6734	NW_004517411.1	scaffold2473	6734	GG	AA	AA	INTERGENIC			
SNP_105445_A_7588	NW_004517411.1	scaffold2473	7588	GG	CC	CC	INTERGENIC			
SNP_105446_A_15587	NW_004517413.1	scaffold2477	15587	TT	AA	AA	INTERGENIC			
SNP_105447_A_15666	NW_004517413.1	scaffold2477	15666	AA	TT	TT	INTERGENIC			
SNP_105448_A_15727	NW_004517413.1	scaffold2477	15727	CC	TT	TT	INTERGENIC			
SNP_105449_A_15880	NW_004517413.1	scaffold2477	15880	TT	AA	AA	INTERGENIC			
SNP_105450_A_1073	NW_004517415.1	scaffold2482	1073	AA	TT	TT	INTERGENIC			
SNP_105451_A_8299	NW_004517415.1	scaffold2482	8299	TT	GG	GG	INTERGENIC			
SNP_105452_A_9061	NW_004517415.1	scaffold2482	9061	AA	GG	GG	INTERGENIC			
SNP_105453_A_9062	NW_004517415.1	scaffold2482	9062	AA	GG	GG	INTERGENIC			
SNP_105454_A_11671	NW_004517415.1	scaffold2482	11671	AA	CC	CC	INTERGENIC			
SNP_105455_A_11749	NW_004517415.1	scaffold2482	11749	CC	TT	TT	INTERGENIC			
SNP_105456_A_11751	NW_004517415.1	scaffold2482	11751	TT	GG	GG	INTERGENIC			
SNP_105457_A_11761	NW_004517415.1	scaffold2482	11761	TT	GG	GG	INTERGENIC			
SNP_105458_A_11806	NW_004517415.1	scaffold2482	11806	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105459_A_755	NW_004517416.1	scaffold2483	755	TT	AA	AA	INTERGENIC			
SNP_105460_A_1090	NW_004517416.1	scaffold2483	1090	GG	TT	TT	INTERGENIC			
SNP_105461_A_1138	NW_004517416.1	scaffold2483	1138	AA	TT	TT	INTERGENIC			
SNP_105462_A_343	NW_004517417.1	scaffold2484	343	GG	TT	TT	INTERGENIC			
SNP_105463_A_344	NW_004517417.1	scaffold2484	344	AA	TT	TT	INTERGENIC			
SNP_105464_A_356	NW_004517417.1	scaffold2484	356	TT	CC	CC	INTERGENIC			
SNP_105466_A_2718	NW_004517419.1	scaffold2486	2718	AA	TT	TT	INTERGENIC			
SNP_105467_A_2929	NW_004517419.1	scaffold2486	2929	GG	CC	CC	INTERGENIC			
SNP_105468_A_6869	NW_004517419.1	scaffold2486	6869	CC	TT	TT	INTERGENIC			
SNP_105469_A_7837	NW_004517419.1	scaffold2486	7837	AA	CC	CC	INTERGENIC			
SNP_105470_A_8099	NW_004517419.1	scaffold2486	8099	GG	CC	CC	INTERGENIC			
SNP_105471_A_8298	NW_004517419.1	scaffold2486	8298	GG	AA	AA	INTERGENIC			
SNP_105472_A_8696	NW_004517419.1	scaffold2486	8696	AA	TT	TT	INTERGENIC			
SNP_105473_A_8714	NW_004517419.1	scaffold2486	8714	CC	AA	AA	INTERGENIC			
SNP_105474_A_8966	NW_004517419.1	scaffold2486	8966	CC	TT	TT	INTERGENIC			
SNP_105475_A_524	NW_004517420.1	scaffold2487	524	AA	CC	CC	INTERGENIC			
SNP_105476_A_931	NW_004517420.1	scaffold2487	931	TT	CC	CC	INTERGENIC			
SNP_105477_A_1614	NW_004517420.1	scaffold2487	1614	AA	CC	CC	INTERGENIC			
SNP_105478_A_1909	NW_004517420.1	scaffold2487	1909	AA	GG	GG	INTERGENIC			
SNP_105479_A_2027	NW_004517420.1	scaffold2487	2027	CC	TT	TT	INTERGENIC			
SNP_105480_A_2034	NW_004517420.1	scaffold2487	2034	GG	AA	AA	INTERGENIC			
SNP_105481_A_2080	NW_004517420.1	scaffold2487	2080	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105482_A_3069	NW_004517420.1	scaffold2487	3069	GG	AA	AA	INTERGENIC			
SNP_105483_A_5908	NW_004517420.1	scaffold2487	5908	AA	CC	CC	INTERGENIC			
SNP_105484_A_5958	NW_004517420.1	scaffold2487	5958	AA	CC	CC	INTERGENIC			
SNP_105485_A_6023	NW_004517420.1	scaffold2487	6023	AA	TT	TT	INTERGENIC			
SNP_105486_A_6071	NW_004517420.1	scaffold2487	6071	TT	CC	CC	INTERGENIC			
SNP_105487_A_6084	NW_004517420.1	scaffold2487	6084	CC	TT	TT	INTERGENIC			
SNP_105488_A_6117	NW_004517420.1	scaffold2487	6117	TT	CC	CC	INTERGENIC			
SNP_105489_A_6244	NW_004517420.1	scaffold2487	6244	GG	TT	TT	INTERGENIC			
SNP_105490_A_6256	NW_004517420.1	scaffold2487	6256	AA	CC	CC	INTERGENIC			
SNP_105491_A_6422	NW_004517420.1	scaffold2487	6422	TT	CC	CC	INTERGENIC			
SNP_105492_A_64	NW_004517422.1	scaffold2489	64	CC	TT	TT	INTERGENIC			
SNP_105493_A_66	NW_004517422.1	scaffold2489	66	CC	GG	GG	INTERGENIC			
SNP_105494_A_2123	NW_004517422.1	scaffold2489	2123	AA	GG	GG	INTERGENIC			
SNP_105495_A_3989	NW_004517422.1	scaffold2489	3989	CC	GG	GG	INTERGENIC			
SNP_105496_A_3997	NW_004517422.1	scaffold2489	3997	TT	GG	GG	INTERGENIC			
SNP_105498_A_6495	NW_004517424.1	scaffold2491	6495	GG	TT	TT	INTERGENIC			
SNP_105499_A_6501	NW_004517424.1	scaffold2491	6501	GG	AA	AA	INTERGENIC			
SNP_105500_A_6504	NW_004517424.1	scaffold2491	6504	AA	CC	CC	INTERGENIC			
SNP_105501_A_6937	NW_004517424.1	scaffold2491	6937	AA	TT	TT	INTERGENIC			
SNP_105502_A_6939	NW_004517424.1	scaffold2491	6939	AA	CC	CC	INTERGENIC			
SNP_105503_A_7363	NW_004517424.1	scaffold2491	7363	TT	CC	CC	INTERGENIC			
SNP_105504_A_7406	NW_004517424.1	scaffold2491	7406	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105505_A_8109	NW_004517424.1	scaffold2491	8109	AA	TT	TT	INTERGENIC			
SNP_105506_A_239	NW_004517425.1	scaffold2492	239	CC	TT	TT	INTERGENIC			
SNP_105507_A_297	NW_004517425.1	scaffold2492	297	CC	TT	TT	INTERGENIC			
SNP_105508_A_628	NW_004517425.1	scaffold2492	628	GG	TT	TT	INTERGENIC			
SNP_105509_A_21560	NW_004517429.1	scaffold2496	21560	GG	AA	AA	INTERGENIC			
SNP_105510_A_645	NW_004517430.1	scaffold2497	645	AA	CC	CC	INTERGENIC			
SNP_105511_A_665	NW_004517430.1	scaffold2497	665	CC	GG	GG	INTERGENIC			
SNP_105512_A_947	NW_004517430.1	scaffold2497	947	AA	GG	GG	INTERGENIC			
SNP_105513_A_963	NW_004517430.1	scaffold2497	963	TT	AA	AA	INTERGENIC			
SNP_105514_A_712	NW_004517431.1	scaffold2498	712	AA	GG	GG	INTERGENIC			
SNP_105515_A_1133	NW_004517431.1	scaffold2498	1133	AA	GG	GG	INTERGENIC			
SNP_105516_A_1402	NW_004517431.1	scaffold2498	1402	CC	TT	TT	INTERGENIC			
SNP_105517_A_1602	NW_004517431.1	scaffold2498	1602	AA	GG	GG	INTERGENIC			
SNP_105518_A_2797	NW_004517431.1	scaffold2498	2797	TT	CC	CC	INTERGENIC			
SNP_105520_A_509	NW_004517436.1	scaffold2505	509	GG	TT	TT	INTERGENIC			
SNP_105521_A_721	NW_004517436.1	scaffold2505	721	AA	GG	GG	INTERGENIC			
SNP_105522_A_748	NW_004517436.1	scaffold2505	748	CC	TT	TT	INTERGENIC			
SNP_105523_A_787	NW_004517436.1	scaffold2505	787	AA	GG	GG	INTERGENIC			
SNP_105524_A_796	NW_004517436.1	scaffold2505	796	AA	GG	GG	INTERGENIC			
SNP_105525_A_1056	NW_004517436.1	scaffold2505	1056	TT	GG	GG	INTERGENIC			
SNP_105526_A_1272	NW_004517436.1	scaffold2505	1272	AA	GG	GG	INTERGENIC			
SNP_105528_A_1785	NW_004517436.1	scaffold2505	1785	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105530_A_1924	NW_004517436.1	scaffold2505	1924	TT	AA	AA	INTERGENIC			
SNP_105531_A_2133	NW_004517436.1	scaffold2505	2133	AA	CC	CC	INTERGENIC			
SNP_105532_A_2196	NW_004517436.1	scaffold2505	2196	TT	CC	CC	INTERGENIC			
SNP_105533_A_2231	NW_004517436.1	scaffold2505	2231	CC	TT	TT	INTERGENIC			
SNP_105534_A_2314	NW_004517436.1	scaffold2505	2314	AA	GG	GG	INTERGENIC			
SNP_105535_A_2315	NW_004517436.1	scaffold2505	2315	CC	GG	GG	INTERGENIC			
SNP_105536_A_2540	NW_004517436.1	scaffold2505	2540	CC	AA	AA	INTERGENIC			
SNP_105537_A_2542	NW_004517436.1	scaffold2505	2542	TT	CC	CC	INTERGENIC			
SNP_105538_A_2727	NW_004517436.1	scaffold2505	2727	AA	GG	GG	INTERGENIC			
SNP_105539_A_1230	NW_004517439.1	scaffold2511	1230	AA	GG	GG	INTERGENIC			
SNP_105541_A_1564	NW_004517439.1	scaffold2511	1564	GG	TT	TT	INTERGENIC			
SNP_105542_A_1565	NW_004517439.1	scaffold2511	1565	AA	GG	GG	INTERGENIC			
SNP_105543_A_1888	NW_004517439.1	scaffold2511	1888	CC	GG	GG	INTERGENIC			
SNP_105544_A_1900	NW_004517439.1	scaffold2511	1900	AA	GG	GG	INTERGENIC			
SNP_105545_A_2008	NW_004517439.1	scaffold2511	2008	TT	CC	CC	INTERGENIC			
SNP_105546_A_2605	NW_004517439.1	scaffold2511	2605	CC	TT	TT	INTERGENIC			
SNP_105547_A_2966	NW_004517439.1	scaffold2511	2966	GG	AA	AA	INTERGENIC			
SNP_105548_A_3048	NW_004517439.1	scaffold2511	3048	CC	TT	TT	INTERGENIC			
SNP_105549_A_3204	NW_004517439.1	scaffold2511	3204	AA	GG	GG	INTERGENIC			
SNP_105550_A_3234	NW_004517439.1	scaffold2511	3234	CC	GG	GG	INTERGENIC			
SNP_105551_A_3419	NW_004517439.1	scaffold2511	3419	TT	GG	GG	INTERGENIC			
SNP_105552_A_3878	NW_004517439.1	scaffold2511	3878	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105553_A_4473	NW_004517439.1	scaffold2511	4473	TT	CC	CC	INTERGENIC			
SNP_105554_A_4674	NW_004517439.1	scaffold2511	4674	AA	GG	GG	INTERGENIC			
SNP_105555_A_4683	NW_004517439.1	scaffold2511	4683	GG	TT	TT	INTERGENIC			
SNP_105556_A_4760	NW_004517439.1	scaffold2511	4760	AA	GG	GG	INTERGENIC			
SNP_105557_A_4878	NW_004517439.1	scaffold2511	4878	CC	TT	TT	INTERGENIC			
SNP_105558_A_4917	NW_004517439.1	scaffold2511	4917	GG	CC	CC	INTERGENIC			
SNP_105559_A_4932	NW_004517439.1	scaffold2511	4932	CC	AA	AA	INTERGENIC			
SNP_105560_A_5036	NW_004517439.1	scaffold2511	5036	GG	AA	AA	INTERGENIC			
SNP_105561_A_5266	NW_004517439.1	scaffold2511	5266	TT	CC	CC	INTERGENIC			
SNP_105562_A_5286	NW_004517439.1	scaffold2511	5286	CC	TT	TT	INTERGENIC			
SNP_105563_A_5287	NW_004517439.1	scaffold2511	5287	TT	CC	CC	INTERGENIC			
SNP_105564_A_5401	NW_004517439.1	scaffold2511	5401	TT	CC	CC	INTERGENIC			
SNP_105565_A_5735	NW_004517439.1	scaffold2511	5735	CC	TT	TT	INTERGENIC			
SNP_105566_A_5740	NW_004517439.1	scaffold2511	5740	AA	TT	TT	INTERGENIC			
SNP_105567_A_5955	NW_004517439.1	scaffold2511	5955	GG	AA	AA	INTERGENIC			
SNP_105568_A_6247	NW_004517439.1	scaffold2511	6247	AA	TT	TT	INTERGENIC			
SNP_105569_A_6385	NW_004517439.1	scaffold2511	6385	GG	TT	TT	INTERGENIC			
SNP_105570_A_6509	NW_004517439.1	scaffold2511	6509	TT	CC	CC	INTERGENIC			
SNP_105571_A_7366	NW_004517439.1	scaffold2511	7366	AA	GG	GG	INTERGENIC			
SNP_105573_A_16566	NW_004517439.1	scaffold2511	16566	TT	CC	CC	INTERGENIC			
SNP_105574_A_16914	NW_004517439.1	scaffold2511	16914	GG	AA	AA	INTERGENIC			
SNP_105575_A_24730	NW_004517439.1	scaffold2511	24730	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105576_A_24950	NW_004517439.1	scaffold2511	24950	GG	TT	TT	INTERGENIC			
SNP_105577_A_24999	NW_004517439.1	scaffold2511	24999	AA	GG	GG	INTERGENIC			
SNP_105578_A_25029	NW_004517439.1	scaffold2511	25029	AA	GG	GG	INTERGENIC			
SNP_105579_A_29572	NW_004517439.1	scaffold2511	29572	AA	GG	GG	INTERGENIC			
SNP_105580_A_60505	NW_004517439.1	scaffold2511	60505	GG	AA	AA	INTERGENIC			
SNP_105581_A_60654	NW_004517439.1	scaffold2511	60654	AA	GG	GG	INTERGENIC			
SNP_105582_A_60875	NW_004517439.1	scaffold2511	60875	AA	GG	GG	INTERGENIC			
SNP_105583_A_60893	NW_004517439.1	scaffold2511	60893	TT	GG	GG	INTERGENIC			
SNP_105584_A_60912	NW_004517439.1	scaffold2511	60912	AA	CC	CC	INTERGENIC			
SNP_105585_A_60978	NW_004517439.1	scaffold2511	60978	CC	GG	GG	INTERGENIC			
SNP_105586_A_61703	NW_004517439.1	scaffold2511	61703	GG	TT	TT	INTERGENIC			
SNP_105587_A_61830	NW_004517439.1	scaffold2511	61830	GG	CC	CC	INTERGENIC			
SNP_105588_A_61853	NW_004517439.1	scaffold2511	61853	TT	CC	CC	INTERGENIC			
SNP_105589_A_61894	NW_004517439.1	scaffold2511	61894	CC	AA	AA	INTERGENIC			
SNP_105590_A_62086	NW_004517439.1	scaffold2511	62086	AA	GG	GG	INTERGENIC			
SNP_105591_A_62101	NW_004517439.1	scaffold2511	62101	TT	GG	GG	INTERGENIC			
SNP_105592_A_62163	NW_004517439.1	scaffold2511	62163	TT	AA	AA	INTERGENIC			
SNP_105593_A_62276	NW_004517439.1	scaffold2511	62276	TT	AA	AA	INTERGENIC			
SNP_105594_A_62523	NW_004517439.1	scaffold2511	62523	TT	CC	CC	INTERGENIC			
SNP_105595_A_64315	NW_004517439.1	scaffold2511	64315	TT	AA	AA	INTERGENIC			
SNP_105596_A_64330	NW_004517439.1	scaffold2511	64330	CC	GG	GG	INTERGENIC			
SNP_105597_A_64345	NW_004517439.1	scaffold2511	64345	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105598_A_64370	NW_004517439.1	scaffold2511	64370	CC	TT	TT	INTERGENIC			
SNP_105599_A_65252	NW_004517439.1	scaffold2511	65252	CC	TT	TT	INTERGENIC			
SNP_105600_A_65376	NW_004517439.1	scaffold2511	65376	TT	CC	CC	INTERGENIC			
SNP_105601_A_65457	NW_004517439.1	scaffold2511	65457	AA	GG	GG	INTERGENIC			
SNP_105602_A_65526	NW_004517439.1	scaffold2511	65526	AA	CC	CC	INTERGENIC			
SNP_105603_A_65963	NW_004517439.1	scaffold2511	65963	TT	GG	GG	INTERGENIC			
SNP_105604_A_66316	NW_004517439.1	scaffold2511	66316	GG	AA	AA	INTERGENIC			
SNP_105605_A_424	NW_004517440.1	scaffold2512	424	TT	AA	AA	INTERGENIC			
SNP_105606_A_445	NW_004517440.1	scaffold2512	445	AA	TT	TT	INTERGENIC			
SNP_105607_A_448	NW_004517440.1	scaffold2512	448	AA	GG	GG	INTERGENIC			
SNP_105608_A_753	NW_004517440.1	scaffold2512	753	GG	TT	TT	INTERGENIC			
SNP_105609_A_87347	NW_004517442.1	scaffold2516	87347	TT	CC	CC	INTERGENIC			
SNP_105611_A_87419	NW_004517442.1	scaffold2516	87419	AA	GG	GG	INTERGENIC			
SNP_105612_A_87679	NW_004517442.1	scaffold2516	87679	TT	CC	CC	INTERGENIC			
SNP_105613_A_87727	NW_004517442.1	scaffold2516	87727	TT	CC	CC	INTERGENIC			
SNP_105614_A_2182	NW_004517445.1	scaffold2519	2182	CC	TT	TT	INTERGENIC			
SNP_105615_A_58071	NW_004517446.1	scaffold2521	58071	GG	AA	AA	INTERGENIC			
SNP_105616_A_58107	NW_004517446.1	scaffold2521	58107	TT	AA	AA	INTERGENIC			
SNP_105617_A_23774	NW_004517447.1	scaffold2522	23774	GG	AA	AA	INTERGENIC			
SNP_105619_A_24148	NW_004517447.1	scaffold2522	24148	AA	GG	GG	INTERGENIC			
SNP_105621_A_5161	NW_004517452.1	scaffold2528	5161	TT	CC	CC	INTERGENIC			
SNP_105622_A_5172	NW_004517452.1	scaffold2528	5172	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105623_A_13125	NW_004517452.1	scaffold2528	13125	AA	TT	TT	INTERGENIC			
SNP_105624_A_19221	NW_004517452.1	scaffold2528	19221	TT	GG	GG	INTERGENIC			
SNP_105625_A_19307	NW_004517452.1	scaffold2528	19307	CC	TT	TT	INTERGENIC			
SNP_105626_A_19411	NW_004517452.1	scaffold2528	19411	TT	CC	CC	INTERGENIC			
SNP_105627_A_19477	NW_004517452.1	scaffold2528	19477	GG	AA	AA	INTERGENIC			
SNP_105629_A_19662	NW_004517452.1	scaffold2528	19662	AA	CC	CC	INTERGENIC			
SNP_105630_A_19679	NW_004517452.1	scaffold2528	19679	AA	TT	TT	INTERGENIC			
SNP_105631_A_19710	NW_004517452.1	scaffold2528	19710	AA	CC	CC	INTERGENIC			
SNP_105632_A_19711	NW_004517452.1	scaffold2528	19711	TT	AA	AA	INTERGENIC			
SNP_105633_A_19898	NW_004517452.1	scaffold2528	19898	AA	GG	GG	INTERGENIC			
SNP_105634_A_19932	NW_004517452.1	scaffold2528	19932	TT	GG	GG	INTERGENIC			
SNP_105635_A_25872	NW_004517456.1	scaffold2534	25872	AA	GG	GG	URR	101496316	uncharacterized LOC101496316	
SNP_105636_A_27725	NW_004517456.1	scaffold2534	27725	CC	TT	TT	INTERGENIC			
SNP_105637_A_27999	NW_004517456.1	scaffold2534	27999	AA	TT	TT	INTERGENIC			
SNP_105638_A_28008	NW_004517456.1	scaffold2534	28008	TT	CC	CC	INTERGENIC			
SNP_105639_A_28104	NW_004517456.1	scaffold2534	28104	TT	CC	CC	INTERGENIC			
SNP_105640_A_28147	NW_004517456.1	scaffold2534	28147	CC	GG	GG	INTERGENIC			
SNP_105641_A_28150	NW_004517456.1	scaffold2534	28150	AA	GG	GG	INTERGENIC			
SNP_105642_A_28188	NW_004517456.1	scaffold2534	28188	TT	CC	CC	INTERGENIC			
SNP_105643_A_31721	NW_004517456.1	scaffold2534	31721	AA	TT	TT	INTERGENIC			
SNP_105644_A_31724	NW_004517456.1	scaffold2534	31724	AA	GG	GG	INTERGENIC			
SNP_105645_A_46163	NW_004517456.1	scaffold2534	46163	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105646_A_46192	NW_004517456.1	scaffold2534	46192	CC	TT	TT	INTERGENIC			
SNP_105647_A_46202	NW_004517456.1	scaffold2534	46202	AA	GG	GG	INTERGENIC			
SNP_105648_A_46228	NW_004517456.1	scaffold2534	46228	TT	CC	CC	INTERGENIC			
SNP_105649_A_46240	NW_004517456.1	scaffold2534	46240	AA	CC	CC	INTERGENIC			
SNP_105651_A_46319	NW_004517456.1	scaffold2534	46319	CC	AA	AA	INTERGENIC			
SNP_105652_A_46590	NW_004517456.1	scaffold2534	46590	GG	AA	AA	INTERGENIC			
SNP_105653_A_9872	NW_004517457.1	scaffold2535	9872	GG	TT	TT	INTERGENIC			
SNP_105654_A_20028	NW_004517457.1	scaffold2535	20028	AA	GG	GG	INTERGENIC			
SNP_105655_A_27874	NW_004517457.1	scaffold2535	27874	AA	CC	CC	INTERGENIC			
SNP_105656_A_27929	NW_004517457.1	scaffold2535	27929	GG	AA	AA	INTERGENIC			
SNP_105657_A_27942	NW_004517457.1	scaffold2535	27942	TT	GG	GG	INTERGENIC			
SNP_105658_A_30543	NW_004517457.1	scaffold2535	30543	AA	GG	GG	INTERGENIC			
SNP_105659_A_30760	NW_004517457.1	scaffold2535	30760	AA	GG	GG	INTERGENIC			
SNP_105660_A_2201	NW_004517461.1	scaffold2542	2201	CC	TT	TT	INTERGENIC			
SNP_105662_A_2318	NW_004517461.1	scaffold2542	2318	TT	AA	AA	INTERGENIC			
SNP_105663_A_2531	NW_004517461.1	scaffold2542	2531	GG	TT	TT	INTERGENIC			
SNP_105664_A_2537	NW_004517461.1	scaffold2542	2537	GG	AA	AA	INTERGENIC			
SNP_105665_A_2686	NW_004517461.1	scaffold2542	2686	GG	AA	AA	INTERGENIC			
SNP_105666_A_9204	NW_004517461.1	scaffold2542	9204	TT	CC	CC	INTERGENIC			
SNP_105667_A_9208	NW_004517461.1	scaffold2542	9208	AA	GG	GG	INTERGENIC			
SNP_105668_A_9216	NW_004517461.1	scaffold2542	9216	TT	CC	CC	INTERGENIC			
SNP_105669_A_11389	NW_004517461.1	scaffold2542	11389	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105670_A_14611	NW_004517461.1	scaffold2542	14611	TT	CC	CC	INTERGENIC			
SNP_105671_A_26189	NW_004517461.1	scaffold2542	26189	GG	AA	AA	INTERGENIC			
SNP_105672_A_26238	NW_004517461.1	scaffold2542	26238	AA	GG	GG	INTERGENIC			
SNP_105673_A_26434	NW_004517461.1	scaffold2542	26434	CC	TT	TT	INTERGENIC			
SNP_105674_A_3407	NW_004517464.1	scaffold2547	3407	AA	GG	GG	INTERGENIC			
SNP_105675_A_709	NW_004517465.1	scaffold2548	709	AA	GG	GG	INTERGENIC			
SNP_105676_A_711	NW_004517465.1	scaffold2548	711	TT	GG	GG	INTERGENIC			
SNP_105677_A_720	NW_004517465.1	scaffold2548	720	CC	GG	GG	INTERGENIC			
SNP_105678_A_724	NW_004517465.1	scaffold2548	724	AA	TT	TT	INTERGENIC			
SNP_105679_A_752	NW_004517465.1	scaffold2548	752	TT	GG	GG	INTERGENIC			
SNP_105680_A_760	NW_004517465.1	scaffold2548	760	TT	CC	CC	INTERGENIC			
SNP_105681_A_766	NW_004517465.1	scaffold2548	766	TT	CC	CC	INTERGENIC			
SNP_105682_A_875	NW_004517465.1	scaffold2548	875	CC	TT	TT	INTERGENIC			
SNP_105683_A_883	NW_004517465.1	scaffold2548	883	AA	TT	TT	INTERGENIC			
SNP_105684_A_885	NW_004517465.1	scaffold2548	885	TT	GG	GG	INTERGENIC			
SNP_105685_A_886	NW_004517465.1	scaffold2548	886	AA	GG	GG	INTERGENIC			
SNP_105686_A_905	NW_004517465.1	scaffold2548	905	AA	GG	GG	INTERGENIC			
SNP_105687_A_1063	NW_004517465.1	scaffold2548	1063	AA	TT	TT	INTERGENIC			
SNP_105688_A_1172	NW_004517465.1	scaffold2548	1172	GG	TT	TT	INTERGENIC			
SNP_105689_A_1342	NW_004517465.1	scaffold2548	1342	AA	TT	TT	INTERGENIC			
SNP_105690_A_1349	NW_004517465.1	scaffold2548	1349	CC	TT	TT	INTERGENIC			
SNP_105691_A_1357	NW_004517465.1	scaffold2548	1357	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105692_A_1396	NW_004517465.1	scaffold2548	1396	GG	AA	AA	INTERGENIC		
SNP_105693_A_1401	NW_004517465.1	scaffold2548	1401	TT	AA	AA	INTERGENIC		
SNP_105694_A_1402	NW_004517465.1	scaffold2548	1402	GG	TT	TT	INTERGENIC		
SNP_105695_A_1431	NW_004517465.1	scaffold2548	1431	TT	AA	AA	INTERGENIC		
SNP_105696_A_1434	NW_004517465.1	scaffold2548	1434	TT	CC	CC	INTERGENIC		
SNP_105697_A_1442	NW_004517465.1	scaffold2548	1442	AA	TT	TT	INTERGENIC		
SNP_105698_A_2521	NW_004517465.1	scaffold2548	2521	CC	TT	TT	INTERGENIC		
SNP_105699_A_1726	NW_004517468.1	scaffold2555	1726	CC	TT	TT	INTERGENIC		
SNP_105700_A_16157	NW_004517468.1	scaffold2555	16157	CC	TT	TT	INTERGENIC		
SNP_105701_A_19934	NW_004517468.1	scaffold2555	19934	AA	TT	TT	INTRON	101496960	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_105702_A_21680	NW_004517468.1	scaffold2555	21680	AA	TT	TT	URR	101496960	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_105703_A_21902	NW_004517468.1	scaffold2555	21902	CC	AA	AA	URR	101496960	PLASMODESMATA CALLOSE-BINDING PROTEIN 3-like
SNP_105704_A_915	NW_004517469.1	scaffold2556	915	CC	GG	GG	INTERGENIC		
SNP_105705_A_922	NW_004517469.1	scaffold2556	922	CC	TT	TT	INTERGENIC		
SNP_105706_A_9152	NW_004517470.1	scaffold2557	9152	AA	GG	GG	INTERGENIC		
SNP_105707_A_14726	NW_004517470.1	scaffold2557	14726	TT	AA	AA	INTERGENIC		
SNP_105708_A_23212	NW_004517470.1	scaffold2557	23212	AA	CC	CC	INTERGENIC		
SNP_105709_A_47643	NW_004517470.1	scaffold2557	47643	TT	GG	GG	INTERGENIC		
SNP_105710_A_47656	NW_004517470.1	scaffold2557	47656	AA	CC	CC	INTERGENIC		
SNP_105711_A_47682	NW_004517470.1	scaffold2557	47682	CC	AA	AA	INTERGENIC		
SNP_105712_A_47752	NW_004517470.1	scaffold2557	47752	AA	TT	TT	INTERGENIC		
SNP_105714_A_49995	NW_004517470.1	scaffold2557	49995	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105715_A_50047	NW_004517470.1	scaffold2557	50047	AA	GG	GG	INTERGENIC			
SNP_105716_A_50060	NW_004517470.1	scaffold2557	50060	GG	AA	AA	INTERGENIC			
SNP_105717_A_50074	NW_004517470.1	scaffold2557	50074	AA	GG	GG	INTERGENIC			
SNP_105718_A_50305	NW_004517470.1	scaffold2557	50305	AA	TT	TT	INTERGENIC			
SNP_105719_A_50326	NW_004517470.1	scaffold2557	50326	GG	AA	AA	INTERGENIC			
SNP_105720_A_50386	NW_004517470.1	scaffold2557	50386	CC	GG	GG	INTERGENIC			
SNP_105721_A_51731	NW_004517470.1	scaffold2557	51731	AA	GG	GG	INTERGENIC			
SNP_105722_A_51753	NW_004517470.1	scaffold2557	51753	AA	TT	TT	INTERGENIC			
SNP_105723_A_51938	NW_004517470.1	scaffold2557	51938	TT	CC	CC	INTERGENIC			
SNP_105724_A_52074	NW_004517470.1	scaffold2557	52074	AA	TT	TT	INTERGENIC			
SNP_105725_A_56329	NW_004517470.1	scaffold2557	56329	CC	TT	TT	INTERGENIC			
SNP_105726_A_56380	NW_004517470.1	scaffold2557	56380	AA	CC	CC	INTERGENIC			
SNP_105727_A_56406	NW_004517470.1	scaffold2557	56406	CC	TT	TT	INTERGENIC			
SNP_105728_A_56631	NW_004517470.1	scaffold2557	56631	TT	CC	CC	INTERGENIC			
SNP_105729_A_56662	NW_004517470.1	scaffold2557	56662	AA	GG	GG	INTERGENIC			
SNP_105730_A_56728	NW_004517470.1	scaffold2557	56728	AA	GG	GG	INTERGENIC			
SNP_105731_A_61460	NW_004517470.1	scaffold2557	61460	AA	GG	GG	INTERGENIC			
SNP_105732_A_61494	NW_004517470.1	scaffold2557	61494	CC	AA	AA	INTERGENIC			
SNP_105733_A_61504	NW_004517470.1	scaffold2557	61504	TT	AA	AA	INTERGENIC			
SNP_105734_A_61506	NW_004517470.1	scaffold2557	61506	TT	CC	CC	INTERGENIC			
SNP_105735_A_61569	NW_004517470.1	scaffold2557	61569	TT	CC	CC	INTERGENIC			
SNP_105736_A_61570	NW_004517470.1	scaffold2557	61570	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105737_A_61585	NW_004517470.1	scaffold2557	61585	AA	GG	GG	INTERGENIC		
SNP_105738_A_61833	NW_004517470.1	scaffold2557	61833	CC	GG	GG	INTERGENIC		
SNP_105739_A_61882	NW_004517470.1	scaffold2557	61882	TT	CC	CC	INTERGENIC		
SNP_105740_A_62284	NW_004517470.1	scaffold2557	62284	AA	GG	GG	INTERGENIC		
SNP_105741_A_62573	NW_004517470.1	scaffold2557	62573	AA	GG	GG	DRR	101498495	folypolyglutamate synthase-like
SNP_105742_A_62677	NW_004517470.1	scaffold2557	62677	TT	AA	AA	DRR	101498495	folypolyglutamate synthase-like
SNP_105743_A_85950	NW_004517470.1	scaffold2557	85950	AA	GG	GG	INTERGENIC		
SNP_105744_A_85979	NW_004517470.1	scaffold2557	85979	TT	AA	AA	INTERGENIC		
SNP_105745_A_86074	NW_004517470.1	scaffold2557	86074	CC	TT	TT	INTERGENIC		
SNP_105746_A_86328	NW_004517470.1	scaffold2557	86328	AA	CC	CC	INTERGENIC		
SNP_105747_A_86363	NW_004517470.1	scaffold2557	86363	AA	CC	CC	INTERGENIC		
SNP_105748_A_86373	NW_004517470.1	scaffold2557	86373	CC	TT	TT	INTERGENIC		
SNP_105752_A_172007	NW_004517470.1	scaffold2557	172007	GG	AA	AA	INTERGENIC		
SNP_105753_A_172010	NW_004517470.1	scaffold2557	172010	AA	GG	GG	INTERGENIC		
SNP_105754_A_172061	NW_004517470.1	scaffold2557	172061	AA	GG	GG	INTERGENIC		
SNP_105755_A_172086	NW_004517470.1	scaffold2557	172086	AA	GG	GG	INTERGENIC		
SNP_105756_A_172354	NW_004517470.1	scaffold2557	172354	CC	GG	GG	INTERGENIC		
SNP_105757_A_172484	NW_004517470.1	scaffold2557	172484	AA	GG	GG	INTERGENIC		
SNP_105758_A_27913	NW_004517471.1	scaffold2558	27913	CC	AA	AA	INTERGENIC		
SNP_105759_A_8410	NW_004517473.1	scaffold2560	8410	TT	GG	GG	NON_SYNONYMOUS_CODING	101500102	UDP-glycosyltransferase 74B1-like
SNP_105760_A_19897	NW_004517473.1	scaffold2560	19897	GG	AA	AA	INTERGENIC		
SNP_105761_A_19898	NW_004517473.1	scaffold2560	19898	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105762_A_19935	NW_004517473.1	scaffold2560	19935	TT	CC	CC	INTERGENIC			
SNP_105763_A_60585	NW_004517473.1	scaffold2560	60585	AA	GG	GG	INTERGENIC			
SNP_105765_A_60679	NW_004517473.1	scaffold2560	60679	CC	TT	TT	INTERGENIC			
SNP_105766_A_60728	NW_004517473.1	scaffold2560	60728	GG	TT	TT	INTERGENIC			
SNP_105768_A_61291	NW_004517473.1	scaffold2560	61291	TT	GG	GG	INTERGENIC			
SNP_105769_A_61393	NW_004517473.1	scaffold2560	61393	GG	AA	AA	INTERGENIC			
SNP_105770_A_61608	NW_004517473.1	scaffold2560	61608	AA	GG	GG	INTERGENIC			
SNP_105771_A_61703	NW_004517473.1	scaffold2560	61703	CC	AA	AA	INTERGENIC			
SNP_105773_A_61776	NW_004517473.1	scaffold2560	61776	AA	TT	TT	INTERGENIC			
SNP_105774_A_61788	NW_004517473.1	scaffold2560	61788	AA	GG	GG	INTERGENIC			
SNP_105775_A_62020	NW_004517473.1	scaffold2560	62020	AA	TT	TT	INTERGENIC			
SNP_105776_A_62329	NW_004517473.1	scaffold2560	62329	GG	CC	CC	INTERGENIC			
SNP_105777_A_62599	NW_004517473.1	scaffold2560	62599	GG	TT	TT	INTERGENIC			
SNP_105778_A_63522	NW_004517473.1	scaffold2560	63522	AA	CC	CC	INTERGENIC			
SNP_105779_A_11211	NW_004517476.1	scaffold2564	11211	TT	CC	CC	INTERGENIC			
SNP_105780_A_11352	NW_004517476.1	scaffold2564	11352	CC	AA	AA	INTERGENIC			
SNP_105781_A_28477	NW_004517476.1	scaffold2564	28477	GG	CC	CC	INTERGENIC			
SNP_105782_A_28485	NW_004517476.1	scaffold2564	28485	AA	TT	TT	INTERGENIC			
SNP_105783_A_28701	NW_004517476.1	scaffold2564	28701	GG	AA	AA	INTERGENIC			
SNP_105784_A_28725	NW_004517476.1	scaffold2564	28725	TT	GG	GG	INTERGENIC			
SNP_105785_A_411	NW_004517479.1	scaffold2568	411	AA	CC	CC	INTERGENIC			
SNP_105786_A_804	NW_004517479.1	scaffold2568	804	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105787_A_22283	NW_004517480.1	scaffold2569	22283	AA	CC	CC	INTERGENIC			
SNP_105788_A_22419	NW_004517480.1	scaffold2569	22419	TT	CC	CC	INTERGENIC			
SNP_105789_A_22556	NW_004517480.1	scaffold2569	22556	AA	GG	GG	INTERGENIC			
SNP_105790_A_22590	NW_004517480.1	scaffold2569	22590	CC	TT	TT	INTERGENIC			
SNP_105791_A_23276	NW_004517480.1	scaffold2569	23276	TT	AA	AA	INTERGENIC			
SNP_105792_A_23279	NW_004517480.1	scaffold2569	23279	AA	GG	GG	INTERGENIC			
SNP_105793_A_23299	NW_004517480.1	scaffold2569	23299	GG	AA	AA	INTERGENIC			
SNP_105794_A_46544	NW_004517480.1	scaffold2569	46544	GG	AA	AA	INTERGENIC			
SNP_105796_A_99326	NW_004517480.1	scaffold2569	99326	AA	GG	GG	INTERGENIC			
SNP_105797_A_99363	NW_004517480.1	scaffold2569	99363	AA	GG	GG	INTERGENIC			
SNP_105798_A_99369	NW_004517480.1	scaffold2569	99369	GG	AA	AA	INTERGENIC			
SNP_105799_A_99381	NW_004517480.1	scaffold2569	99381	AA	CC	CC	INTERGENIC			
SNP_105800_A_106306	NW_004517480.1	scaffold2569	106306	TT	AA	AA	INTERGENIC			
SNP_105801_A_106824	NW_004517480.1	scaffold2569	106824	GG	AA	AA	INTERGENIC			
SNP_105802_A_106826	NW_004517480.1	scaffold2569	106826	TT	AA	AA	INTERGENIC			
SNP_105803_A_106975	NW_004517480.1	scaffold2569	106975	CC	GG	GG	INTERGENIC			
SNP_105804_A_959	NW_004517482.1	scaffold2571	959	TT	AA	AA	INTERGENIC			
SNP_105805_A_4839	NW_004517485.1	scaffold2574	4839	TT	GG	GG	INTERGENIC			
SNP_105806_A_5042	NW_004517485.1	scaffold2574	5042	TT	CC	CC	INTERGENIC			
SNP_105807_A_15397	NW_004517485.1	scaffold2574	15397	GG	CC	CC	INTERGENIC			
SNP_105808_A_51068	NW_004517485.1	scaffold2574	51068	TT	CC	CC	SYNONYMOUS_CODING	101503616	Unknown function	
SNP_105809_A_51101	NW_004517485.1	scaffold2574	51101	AA	GG	GG	SYNONYMOUS_CODING	101503616	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105810_A_51355	NW_004517485.1	scaffold2574	51355	GG	AA	AA	URR	101503616	Unknown function
SNP_105812_A_51473	NW_004517485.1	scaffold2574	51473	TT	AA	AA	URR	101503616	Unknown function
SNP_105813_A_51474	NW_004517485.1	scaffold2574	51474	TT	AA	AA	URR	101503616	Unknown function
SNP_105814_A_65994	NW_004517486.1	scaffold2575	65994	TT	GG	GG	DRR	101511549	MADS-box transcription factor 20-like
SNP_105815_A_65996	NW_004517486.1	scaffold2575	65996	AA	CC	CC	DRR	101511549	MADS-box transcription factor 20-like
SNP_105816_A_114526	NW_004517486.1	scaffold2575	114526	AA	TT	TT	INTERGENIC		
SNP_105817_A_114530	NW_004517486.1	scaffold2575	114530	AA	CC	CC	INTERGENIC		
SNP_105818_A_127543	NW_004517486.1	scaffold2575	127543	AA	GG	GG	INTERGENIC		
SNP_105819_A_127544	NW_004517486.1	scaffold2575	127544	AA	CC	CC	INTERGENIC		
SNP_105820_A_193391	NW_004517486.1	scaffold2575	193391	AA	GG	GG	INTERGENIC		
SNP_105821_A_193403	NW_004517486.1	scaffold2575	193403	AA	GG	GG	INTERGENIC		
SNP_105822_A_193439	NW_004517486.1	scaffold2575	193439	TT	CC	CC	INTERGENIC		
SNP_105823_A_193466	NW_004517486.1	scaffold2575	193466	AA	GG	GG	INTERGENIC		
SNP_105824_A_193518	NW_004517486.1	scaffold2575	193518	TT	GG	GG	INTERGENIC		
SNP_105825_A_193529	NW_004517486.1	scaffold2575	193529	TT	CC	CC	INTERGENIC		
SNP_105826_A_193584	NW_004517486.1	scaffold2575	193584	TT	AA	AA	INTERGENIC		
SNP_105827_A_193677	NW_004517486.1	scaffold2575	193677	AA	GG	GG	INTERGENIC		
SNP_105828_A_193718	NW_004517486.1	scaffold2575	193718	AA	GG	GG	INTERGENIC		
SNP_105829_A_195813	NW_004517486.1	scaffold2575	195813	TT	CC	CC	INTERGENIC		
SNP_105830_A_195914	NW_004517486.1	scaffold2575	195914	TT	CC	CC	INTERGENIC		
SNP_105831_A_195944	NW_004517486.1	scaffold2575	195944	TT	GG	GG	INTERGENIC		
SNP_105832_A_195961	NW_004517486.1	scaffold2575	195961	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105833_A_195973	NW_004517486.1	scaffold2575	195973	CC	TT	TT	INTERGENIC		
SNP_105834_A_196077	NW_004517486.1	scaffold2575	196077	GG	AA	AA	INTERGENIC		
SNP_105836_A_196160	NW_004517486.1	scaffold2575	196160	AA	GG	GG	INTERGENIC		
SNP_105837_A_196169	NW_004517486.1	scaffold2575	196169	AA	GG	GG	INTERGENIC		
SNP_105838_A_196188	NW_004517486.1	scaffold2575	196188	TT	CC	CC	INTERGENIC		
SNP_105839_A_197206	NW_004517486.1	scaffold2575	197206	AA	CC	CC	INTERGENIC		
SNP_105840_A_197209	NW_004517486.1	scaffold2575	197209	AA	GG	GG	INTERGENIC		
SNP_105841_A_208711	NW_004517486.1	scaffold2575	208711	AA	CC	CC	INTERGENIC		
SNP_105842_A_208726	NW_004517486.1	scaffold2575	208726	AA	GG	GG	INTERGENIC		
SNP_105843_A_231200	NW_004517486.1	scaffold2575	231200	CC	AA	AA	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105844_A_231208	NW_004517486.1	scaffold2575	231208	TT	CC	CC	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105845_A_231213	NW_004517486.1	scaffold2575	231213	AA	GG	GG	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105846_A_231219	NW_004517486.1	scaffold2575	231219	TT	GG	GG	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105847_A_231291	NW_004517486.1	scaffold2575	231291	CC	TT	TT	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105848_A_231315	NW_004517486.1	scaffold2575	231315	TT	GG	GG	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105849_A_231382	NW_004517486.1	scaffold2575	231382	TT	AA	AA	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105850_A_231496	NW_004517486.1	scaffold2575	231496	TT	CC	CC	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105851_A_231514	NW_004517486.1	scaffold2575	231514	GG	CC	CC	INTRON	101510258	O-acyltransferase WSD1-like
SNP_105852_A_245112	NW_004517486.1	scaffold2575	245112	TT	GG	GG	INTERGENIC		
SNP_105854_A_269310	NW_004517486.1	scaffold2575	269310	GG	TT	TT	INTERGENIC		
SNP_105855_A_271206	NW_004517486.1	scaffold2575	271206	GG	AA	AA	INTERGENIC		
SNP_105856_A_271237	NW_004517486.1	scaffold2575	271237	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105858_A_271390	NW_004517486.1	scaffold2575	271390	TT	GG	GG	INTERGENIC			
SNP_105859_A_271402	NW_004517486.1	scaffold2575	271402	CC	TT	TT	INTERGENIC			
SNP_105860_A_271464	NW_004517486.1	scaffold2575	271464	TT	GG	GG	INTERGENIC			
SNP_105861_A_271673	NW_004517486.1	scaffold2575	271673	CC	TT	TT	INTERGENIC			
SNP_105862_A_271682	NW_004517486.1	scaffold2575	271682	TT	CC	CC	INTERGENIC			
SNP_105863_A_271709	NW_004517486.1	scaffold2575	271709	TT	CC	CC	INTERGENIC			
SNP_105865_A_271727	NW_004517486.1	scaffold2575	271727	TT	CC	CC	INTERGENIC			
SNP_105866_A_278436	NW_004517486.1	scaffold2575	278436	CC	TT	TT	INTERGENIC			
SNP_105867_A_278441	NW_004517486.1	scaffold2575	278441	TT	CC	CC	INTERGENIC			
SNP_105868_A_278455	NW_004517486.1	scaffold2575	278455	AA	GG	GG	INTERGENIC			
SNP_105869_A_278496	NW_004517486.1	scaffold2575	278496	AA	TT	TT	INTERGENIC			
SNP_105870_A_278503	NW_004517486.1	scaffold2575	278503	CC	TT	TT	INTERGENIC			
SNP_105871_A_278551	NW_004517486.1	scaffold2575	278551	CC	AA	AA	INTERGENIC			
SNP_105872_A_278561	NW_004517486.1	scaffold2575	278561	TT	CC	CC	INTERGENIC			
SNP_105873_A_278565	NW_004517486.1	scaffold2575	278565	CC	AA	AA	INTERGENIC			
SNP_105874_A_278590	NW_004517486.1	scaffold2575	278590	AA	TT	TT	INTERGENIC			
SNP_105875_A_278605	NW_004517486.1	scaffold2575	278605	GG	AA	AA	INTERGENIC			
SNP_105876_A_278673	NW_004517486.1	scaffold2575	278673	AA	TT	TT	INTERGENIC			
SNP_105877_A_278685	NW_004517486.1	scaffold2575	278685	TT	AA	AA	INTERGENIC			
SNP_105878_A_278725	NW_004517486.1	scaffold2575	278725	TT	AA	AA	INTERGENIC			
SNP_105880_A_278783	NW_004517486.1	scaffold2575	278783	TT	CC	CC	INTERGENIC			
SNP_105881_A_278787	NW_004517486.1	scaffold2575	278787	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105882_A_278827	NW_004517486.1	scaffold2575	278827	CC	TT	TT	INTERGENIC			
SNP_105883_A_278849	NW_004517486.1	scaffold2575	278849	CC	TT	TT	INTERGENIC			
SNP_105884_A_278869	NW_004517486.1	scaffold2575	278869	TT	CC	CC	INTERGENIC			
SNP_105885_A_278916	NW_004517486.1	scaffold2575	278916	CC	AA	AA	INTERGENIC			
SNP_105886_A_278962	NW_004517486.1	scaffold2575	278962	CC	AA	AA	INTERGENIC			
SNP_105887_A_278966	NW_004517486.1	scaffold2575	278966	GG	AA	AA	INTERGENIC			
SNP_105888_A_279043	NW_004517486.1	scaffold2575	279043	GG	AA	AA	INTERGENIC			
SNP_105889_A_279110	NW_004517486.1	scaffold2575	279110	CC	TT	TT	INTERGENIC			
SNP_105890_A_279130	NW_004517486.1	scaffold2575	279130	TT	CC	CC	INTERGENIC			
SNP_105891_A_279153	NW_004517486.1	scaffold2575	279153	GG	TT	TT	INTERGENIC			
SNP_105892_A_279162	NW_004517486.1	scaffold2575	279162	GG	AA	AA	INTERGENIC			
SNP_105894_A_279240	NW_004517486.1	scaffold2575	279240	CC	AA	AA	INTERGENIC			
SNP_105895_A_279281	NW_004517486.1	scaffold2575	279281	AA	GG	GG	INTERGENIC			
SNP_105897_A_279374	NW_004517486.1	scaffold2575	279374	TT	GG	GG	INTERGENIC			
SNP_105898_A_279381	NW_004517486.1	scaffold2575	279381	GG	AA	AA	INTERGENIC			
SNP_105899_A_279388	NW_004517486.1	scaffold2575	279388	AA	GG	GG	INTERGENIC			
SNP_105900_A_279409	NW_004517486.1	scaffold2575	279409	GG	AA	AA	INTERGENIC			
SNP_105901_A_279633	NW_004517486.1	scaffold2575	279633	AA	TT	TT	INTERGENIC			
SNP_105902_A_279836	NW_004517486.1	scaffold2575	279836	TT	AA	AA	INTERGENIC			
SNP_105903_A_279938	NW_004517486.1	scaffold2575	279938	CC	AA	AA	INTERGENIC			
SNP_105904_A_280037	NW_004517486.1	scaffold2575	280037	TT	GG	GG	INTERGENIC			
SNP_105906_A_280089	NW_004517486.1	scaffold2575	280089	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105907_A_280120	NW_004517486.1	scaffold2575	280120	CC	TT	TT	INTERGENIC			
SNP_105908_A_280143	NW_004517486.1	scaffold2575	280143	TT	CC	CC	INTERGENIC			
SNP_105910_A_280221	NW_004517486.1	scaffold2575	280221	GG	CC	CC	INTERGENIC			
SNP_105911_A_280224	NW_004517486.1	scaffold2575	280224	TT	CC	CC	INTERGENIC			
SNP_105912_A_280284	NW_004517486.1	scaffold2575	280284	CC	TT	TT	INTERGENIC			
SNP_105913_A_280317	NW_004517486.1	scaffold2575	280317	TT	CC	CC	INTERGENIC			
SNP_105914_A_280358	NW_004517486.1	scaffold2575	280358	AA	CC	CC	INTERGENIC			
SNP_105915_A_280432	NW_004517486.1	scaffold2575	280432	CC	TT	TT	INTERGENIC			
SNP_105916_A_280467	NW_004517486.1	scaffold2575	280467	GG	AA	AA	INTERGENIC			
SNP_105917_A_280562	NW_004517486.1	scaffold2575	280562	CC	GG	GG	INTERGENIC			
SNP_105918_A_280587	NW_004517486.1	scaffold2575	280587	CC	TT	TT	INTERGENIC			
SNP_105919_A_280626	NW_004517486.1	scaffold2575	280626	GG	AA	AA	INTERGENIC			
SNP_105920_A_280639	NW_004517486.1	scaffold2575	280639	TT	CC	CC	INTERGENIC			
SNP_105921_A_280646	NW_004517486.1	scaffold2575	280646	AA	TT	TT	INTERGENIC			
SNP_105922_A_280669	NW_004517486.1	scaffold2575	280669	AA	GG	GG	INTERGENIC			
SNP_105923_A_280673	NW_004517486.1	scaffold2575	280673	TT	CC	CC	INTERGENIC			
SNP_105924_A_280761	NW_004517486.1	scaffold2575	280761	CC	TT	TT	INTERGENIC			
SNP_105925_A_280810	NW_004517486.1	scaffold2575	280810	GG	CC	CC	INTERGENIC			
SNP_105926_A_281667	NW_004517486.1	scaffold2575	281667	TT	AA	AA	INTERGENIC			
SNP_105927_A_281699	NW_004517486.1	scaffold2575	281699	CC	TT	TT	INTERGENIC			
SNP_105928_A_281724	NW_004517486.1	scaffold2575	281724	AA	CC	CC	INTERGENIC			
SNP_105929_A_281733	NW_004517486.1	scaffold2575	281733	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105930_A_281947	NW_004517486.1	scaffold2575	281947	GG	TT	TT	INTERGENIC		
SNP_105931_A_281958	NW_004517486.1	scaffold2575	281958	AA	GG	GG	INTERGENIC		
SNP_105932_A_281978	NW_004517486.1	scaffold2575	281978	AA	TT	TT	INTERGENIC		
SNP_105934_A_282053	NW_004517486.1	scaffold2575	282053	AA	GG	GG	INTERGENIC		
SNP_105935_A_282077	NW_004517486.1	scaffold2575	282077	CC	AA	AA	INTERGENIC		
SNP_105936_A_282275	NW_004517486.1	scaffold2575	282275	TT	GG	GG	INTERGENIC		
SNP_105937_A_282294	NW_004517486.1	scaffold2575	282294	AA	CC	CC	INTERGENIC		
SNP_105938_A_282383	NW_004517486.1	scaffold2575	282383	GG	AA	AA	INTERGENIC		
SNP_105939_A_282390	NW_004517486.1	scaffold2575	282390	CC	TT	TT	INTERGENIC		
SNP_105940_A_282396	NW_004517486.1	scaffold2575	282396	GG	AA	AA	INTERGENIC		
SNP_105941_A_282428	NW_004517486.1	scaffold2575	282428	GG	AA	AA	INTERGENIC		
SNP_105942_A_282451	NW_004517486.1	scaffold2575	282451	CC	TT	TT	INTERGENIC		
SNP_105943_A_282466	NW_004517486.1	scaffold2575	282466	CC	GG	GG	INTERGENIC		
SNP_105944_A_2874	NW_004517491.1	scaffold2583	2874	GG	AA	AA	INTERGENIC		
SNP_105945_A_1116	NW_004517493.1	scaffold2585	1116	TT	CC	CC	INTERGENIC		
SNP_105946_A_2062	NW_004517495.1	scaffold2587	2062	TT	CC	CC	INTERGENIC		
SNP_105947_A_35117	NW_004517495.1	scaffold2587	35117	GG	AA	AA	INTERGENIC		
SNP_105948_A_47709	NW_004517495.1	scaffold2587	47709	CC	TT	TT	URR	101514781	uncharacterized LOC101514781
SNP_105949_A_1883	NW_004517496.1	scaffold2591	1883	CC	GG	GG	INTERGENIC		
SNP_105950_A_1974	NW_004517496.1	scaffold2591	1974	GG	AA	AA	INTERGENIC		
SNP_105951_A_1976	NW_004517496.1	scaffold2591	1976	AA	CC	CC	INTERGENIC		
SNP_105952_A_2034	NW_004517496.1	scaffold2591	2034	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_105953_A_2105	NW_004517496.1	scaffold2591	2105	AA	GG	GG	INTERGENIC			
SNP_105954_A_2194	NW_004517496.1	scaffold2591	2194	AA	CC	CC	INTERGENIC			
SNP_105955_A_5337	NW_004517496.1	scaffold2591	5337	TT	GG	GG	INTERGENIC			
SNP_105956_A_64	NW_004517498.1	scaffold2594	64	AA	TT	TT	INTERGENIC			
SNP_105957_A_222	NW_004517498.1	scaffold2594	222	AA	TT	TT	INTERGENIC			
SNP_105958_A_31936	NW_004517498.1	scaffold2594	31936	CC	TT	TT	INTERGENIC			
SNP_105959_A_35724	NW_004517498.1	scaffold2594	35724	CC	TT	TT	INTERGENIC			
SNP_105961_A_1555	NW_004517500.1	scaffold2596	1555	TT	CC	CC	INTERGENIC			
SNP_105962_A_1558	NW_004517500.1	scaffold2596	1558	GG	AA	AA	INTERGENIC			
SNP_105963_A_4411	NW_004517501.1	scaffold2598	4411	GG	AA	AA	INTERGENIC			
SNP_105964_A_6585	NW_004517502.1	scaffold2599	6585	TT	CC	CC	INTERGENIC			
SNP_105965_A_6905	NW_004517502.1	scaffold2599	6905	GG	AA	AA	INTERGENIC			
SNP_105966_A_6971	NW_004517502.1	scaffold2599	6971	AA	GG	GG	INTERGENIC			
SNP_105967_A_7023	NW_004517502.1	scaffold2599	7023	AA	GG	GG	INTERGENIC			
SNP_105969_A_19033	NW_004517502.1	scaffold2599	19033	AA	TT	TT	INTERGENIC			
SNP_105970_A_19607	NW_004517502.1	scaffold2599	19607	GG	CC	CC	INTERGENIC			
SNP_105971_A_1961	NW_004517503.1	scaffold2600	1961	TT	GG	GG	INTERGENIC			
SNP_105972_A_1970	NW_004517503.1	scaffold2600	1970	GG	AA	AA	INTERGENIC			
SNP_105973_A_2217	NW_004517503.1	scaffold2600	2217	AA	GG	GG	INTERGENIC			
SNP_105974_A_9415	NW_004517503.1	scaffold2600	9415	TT	GG	GG	INTERGENIC			
SNP_105975_A_9478	NW_004517503.1	scaffold2600	9478	TT	CC	CC	INTERGENIC			
SNP_105976_A_13839	NW_004517503.1	scaffold2600	13839	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_105977_A_13888	NW_004517503.1	scaffold2600	13888	CC	TT	TT	INTERGENIC		
SNP_105978_A_4956	NW_004517506.1	scaffold2603	4956	TT	GG	GG	INTERGENIC		
SNP_105979_A_6254	NW_004517506.1	scaffold2603	6254	AA	TT	TT	INTERGENIC		
SNP_105980_A_6269	NW_004517506.1	scaffold2603	6269	CC	TT	TT	INTERGENIC		
SNP_105982_A_6607	NW_004517506.1	scaffold2603	6607	CC	TT	TT	INTERGENIC		
SNP_105983_A_6909	NW_004517506.1	scaffold2603	6909	AA	TT	TT	INTERGENIC		
SNP_105985_A_17492	NW_004517506.1	scaffold2603	17492	GG	AA	AA	INTERGENIC		
SNP_105986_A_17519	NW_004517506.1	scaffold2603	17519	TT	CC	CC	INTERGENIC		
SNP_105988_A_41131	NW_004517506.1	scaffold2603	41131	GG	AA	AA	INTERGENIC		
SNP_105989_A_53720	NW_004517506.1	scaffold2603	53720	AA	GG	GG	INTERGENIC		
SNP_105990_A_67082	NW_004517506.1	scaffold2603	67082	GG	AA	AA	INTRON	101515759	Unknown function
SNP_105991_A_67352	NW_004517506.1	scaffold2603	67352	TT	CC	CC	INTRON	101515759	Unknown function
SNP_105993_A_67475	NW_004517506.1	scaffold2603	67475	AA	TT	TT	INTRON	101515759	Unknown function
SNP_105994_A_67491	NW_004517506.1	scaffold2603	67491	AA	TT	TT	INTRON	101515759	Unknown function
SNP_105995_A_67573	NW_004517506.1	scaffold2603	67573	CC	TT	TT	INTRON	101515759	Unknown function
SNP_105996_A_67642	NW_004517506.1	scaffold2603	67642	TT	AA	AA	SYNONYMOUS_CODING	101515759	Unknown function
SNP_105997_A_67652	NW_004517506.1	scaffold2603	67652	GG	AA	AA	NON_SYNONYMOUS_CODING	101515759	Unknown function
SNP_105998_A_67654	NW_004517506.1	scaffold2603	67654	CC	TT	TT	SYNONYMOUS_CODING	101515759	Unknown function
SNP_105999_A_67677	NW_004517506.1	scaffold2603	67677	TT	CC	CC	NON_SYNONYMOUS_CODING	101515759	Unknown function
SNP_106000_A_67716	NW_004517506.1	scaffold2603	67716	GG	CC	CC	NON_SYNONYMOUS_CODING	101515759	Unknown function
SNP_106001_A_67741	NW_004517506.1	scaffold2603	67741	AA	CC	CC	NON_SYNONYMOUS_CODING	101515759	Unknown function
SNP_106002_A_67828	NW_004517506.1	scaffold2603	67828	AA	GG	GG	URR	101515759	Unknown function

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SNP_106003_A_67851	NW_004517506.1	scaffold2603	67851	TT	AA	AA	URR		101515759	Unknown function
SNP_106004_A_67858	NW_004517506.1	scaffold2603	67858	TT	CC	CC	URR		101515759	Unknown function
SNP_106005_A_67860	NW_004517506.1	scaffold2603	67860	AA	GG	GG	URR		101515759	Unknown function
SNP_106006_A_67870	NW_004517506.1	scaffold2603	67870	AA	GG	GG	URR		101515759	Unknown function
SNP_106007_A_67889	NW_004517506.1	scaffold2603	67889	TT	AA	AA	URR		101515759	Unknown function
SNP_106008_A_67927	NW_004517506.1	scaffold2603	67927	AA	GG	GG	URR		101515759	Unknown function
SNP_106009_A_4357	NW_004517507.1	scaffold2604	4357	GG	CC	CC	INTERGENIC			
SNP_106010_A_1408	NW_004517509.1	scaffold2606	1408	TT	CC	CC	INTERGENIC			
SNP_106011_A_1449	NW_004517509.1	scaffold2606	1449	TT	GG	GG	INTERGENIC			
SNP_106012_A_4195	NW_004517509.1	scaffold2606	4195	TT	CC	CC	INTERGENIC			
SNP_106013_A_4201	NW_004517509.1	scaffold2606	4201	CC	TT	TT	INTERGENIC			
SNP_106014_A_4267	NW_004517509.1	scaffold2606	4267	CC	TT	TT	INTERGENIC			
SNP_106015_A_4329	NW_004517509.1	scaffold2606	4329	CC	TT	TT	INTERGENIC			
SNP_106016_A_22261	NW_004517509.1	scaffold2606	22261	TT	CC	CC	INTERGENIC			
SNP_106017_A_22318	NW_004517509.1	scaffold2606	22318	AA	TT	TT	INTERGENIC			
SNP_106018_A_27760	NW_004517509.1	scaffold2606	27760	TT	GG	GG	INTERGENIC			
SNP_106019_A_27785	NW_004517509.1	scaffold2606	27785	TT	CC	CC	INTERGENIC			
SNP_106020_A_28753	NW_004517509.1	scaffold2606	28753	TT	CC	CC	INTERGENIC			
SNP_106021_A_28777	NW_004517509.1	scaffold2606	28777	AA	GG	GG	INTERGENIC			
SNP_106022_A_28853	NW_004517509.1	scaffold2606	28853	AA	GG	GG	INTERGENIC			
SNP_106023_A_438	NW_004517510.1	scaffold2607	438	TT	GG	GG	INTERGENIC			
SNP_106024_A_465	NW_004517510.1	scaffold2607	465	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106025_A_5886	NW_004517514.1	scaffold2612	5886	AA	GG	GG	NON_SYNONYMOUS_CODING	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106026_A_5944	NW_004517514.1	scaffold2612	5944	CC	TT	TT	NON_SYNONYMOUS_CODING	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106027_A_5981	NW_004517514.1	scaffold2612	5981	CC	TT	TT	SYNONYMOUS_CODING	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106028_A_6091	NW_004517514.1	scaffold2612	6091	TT	AA	AA	NON_SYNONYMOUS_CODING	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106029_A_6165	NW_004517514.1	scaffold2612	6165	TT	AA	AA	NON_SYNONYMOUS_CODING	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106030_A_6531	NW_004517514.1	scaffold2612	6531	CC	TT	TT	URR	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106031_A_6640	NW_004517514.1	scaffold2612	6640	GG	CC	CC	URR	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106032_A_8021	NW_004517514.1	scaffold2612	8021	CC	TT	TT	URR	101488519	iron-regulated transcriptional activator AFT2-like
SNP_106033_A_5857	NW_004517515.1	scaffold2613	5857	CC	TT	TT	INTERGENIC		
SNP_106034_A_487	NW_004517518.1	scaffold2616	487	TT	AA	AA	INTERGENIC		
SNP_106035_A_29742	NW_004517519.1	scaffold2617	29742	GG	AA	AA	INTERGENIC		
SNP_106036_A_29771	NW_004517519.1	scaffold2617	29771	CC	AA	AA	INTERGENIC		
SNP_106038_A_30029	NW_004517519.1	scaffold2617	30029	GG	AA	AA	INTERGENIC		
SNP_106039_A_30035	NW_004517519.1	scaffold2617	30035	GG	AA	AA	INTERGENIC		
SNP_106040_A_31769	NW_004517519.1	scaffold2617	31769	AA	GG	GG	INTERGENIC		
SNP_106042_A_110076	NW_004517519.1	scaffold2617	110076	GG	TT	TT	INTERGENIC		
SNP_106043_A_110173	NW_004517519.1	scaffold2617	110173	AA	CC	CC	INTERGENIC		
SNP_106044_A_110377	NW_004517519.1	scaffold2617	110377	TT	GG	GG	INTERGENIC		
SNP_106048_A_110579	NW_004517519.1	scaffold2617	110579	TT	CC	CC	INTERGENIC		
SNP_106049_A_111540	NW_004517519.1	scaffold2617	111540	AA	GG	GG	INTERGENIC		
SNP_106050_A_111603	NW_004517519.1	scaffold2617	111603	TT	AA	AA	INTERGENIC		
SNP_106051_A_111665	NW_004517519.1	scaffold2617	111665	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106052_A_111704	NW_004517519.1	scaffold2617	111704	AA	GG	GG	INTERGENIC			
SNP_106053_A_111767	NW_004517519.1	scaffold2617	111767	GG	AA	AA	INTERGENIC			
SNP_106054_A_111878	NW_004517519.1	scaffold2617	111878	TT	CC	CC	INTERGENIC			
SNP_106055_A_111940	NW_004517519.1	scaffold2617	111940	TT	CC	CC	INTERGENIC			
SNP_106056_A_112006	NW_004517519.1	scaffold2617	112006	TT	CC	CC	INTERGENIC			
SNP_106057_A_112050	NW_004517519.1	scaffold2617	112050	AA	GG	GG	INTERGENIC			
SNP_106058_A_112057	NW_004517519.1	scaffold2617	112057	CC	TT	TT	INTERGENIC			
SNP_106059_A_112268	NW_004517519.1	scaffold2617	112268	CC	AA	AA	INTERGENIC			
SNP_106060_A_112284	NW_004517519.1	scaffold2617	112284	GG	TT	TT	INTERGENIC			
SNP_106061_A_112285	NW_004517519.1	scaffold2617	112285	TT	CC	CC	INTERGENIC			
SNP_106062_A_112338	NW_004517519.1	scaffold2617	112338	TT	CC	CC	INTERGENIC			
SNP_106063_A_112383	NW_004517519.1	scaffold2617	112383	GG	AA	AA	INTERGENIC			
SNP_106064_A_150643	NW_004517519.1	scaffold2617	150643	TT	CC	CC	INTERGENIC			
SNP_106065_A_195189	NW_004517519.1	scaffold2617	195189	TT	CC	CC	INTERGENIC			
SNP_106066_A_195282	NW_004517519.1	scaffold2617	195282	CC	TT	TT	INTERGENIC			
SNP_106067_A_195301	NW_004517519.1	scaffold2617	195301	GG	TT	TT	INTERGENIC			
SNP_106070_A_249153	NW_004517519.1	scaffold2617	249153	AA	TT	TT	INTERGENIC			
SNP_106071_A_320743	NW_004517519.1	scaffold2617	320743	GG	AA	AA	INTERGENIC			
SNP_106072_A_320833	NW_004517519.1	scaffold2617	320833	GG	TT	TT	INTERGENIC			
SNP_106074_A_321162	NW_004517519.1	scaffold2617	321162	GG	TT	TT	DRR	101497190	probable WRKY transcription factor 26	
SNP_106075_A_321247	NW_004517519.1	scaffold2617	321247	CC	AA	AA	DRR	101497190	probable WRKY transcription factor 26	
SNP_106076_A_321424	NW_004517519.1	scaffold2617	321424	TT	GG	GG	DRR	101497190	probable WRKY transcription factor 26	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106077_A_321495	NW_004517519.1	scaffold2617	321495	CC	AA	AA	DRR	101497190	probable WRKY transcription factor 26
SNP_106078_A_321773	NW_004517519.1	scaffold2617	321773	TT	CC	CC	DRR	101497190	probable WRKY transcription factor 26
SNP_106080_A_321846	NW_004517519.1	scaffold2617	321846	AA	TT	TT	DRR	101497190	probable WRKY transcription factor 26
SNP_106081_A_321848	NW_004517519.1	scaffold2617	321848	TT	AA	AA	DRR	101497190	probable WRKY transcription factor 26
SNP_106082_A_322065	NW_004517519.1	scaffold2617	322065	GG	TT	TT	DRR	101497190	probable WRKY transcription factor 26
SNP_106083_A_322080	NW_004517519.1	scaffold2617	322080	TT	AA	AA	DRR	101497190	probable WRKY transcription factor 26
SNP_106084_A_322085	NW_004517519.1	scaffold2617	322085	GG	AA	AA	DRR	101497190	probable WRKY transcription factor 26
SNP_106085_A_322219	NW_004517519.1	scaffold2617	322219	TT	CC	CC	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106086_A_322284	NW_004517519.1	scaffold2617	322284	CC	TT	TT	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106087_A_322392	NW_004517519.1	scaffold2617	322392	GG	AA	AA	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106088_A_322401	NW_004517519.1	scaffold2617	322401	GG	TT	TT	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106089_A_322430	NW_004517519.1	scaffold2617	322430	GG	AA	AA	SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106090_A_322540	NW_004517519.1	scaffold2617	322540	CC	TT	TT	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106091_A_322576	NW_004517519.1	scaffold2617	322576	AA	CC	CC	INTRON	101497190	probable WRKY transcription factor 26
SNP_106092_A_322616	NW_004517519.1	scaffold2617	322616	CC	TT	TT	INTRON	101497190	probable WRKY transcription factor 26
SNP_106093_A_322626	NW_004517519.1	scaffold2617	322626	GG	AA	AA	INTRON	101497190	probable WRKY transcription factor 26
SNP_106094_A_322643	NW_004517519.1	scaffold2617	322643	GG	AA	AA	INTRON	101497190	probable WRKY transcription factor 26
SNP_106095_A_322858	NW_004517519.1	scaffold2617	322858	AA	GG	GG	INTRON	101497190	probable WRKY transcription factor 26
SNP_106096_A_322894	NW_004517519.1	scaffold2617	322894	TT	CC	CC	INTRON	101497190	probable WRKY transcription factor 26
SNP_106097_A_322934	NW_004517519.1	scaffold2617	322934	CC	GG	GG	INTRON	101497190	probable WRKY transcription factor 26
SNP_106098_A_322937	NW_004517519.1	scaffold2617	322937	AA	TT	TT	INTRON	101497190	probable WRKY transcription factor 26
SNP_106099_A_322943	NW_004517519.1	scaffold2617	322943	CC	TT	TT	INTRON	101497190	probable WRKY transcription factor 26

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106100_A_322970	NW_004517519.1	scaffold2617	322970	TT	CC	CC	INTRON	101497190	probable WRKY transcription factor 26
SNP_106101_A_323015	NW_004517519.1	scaffold2617	323015	TT	AA	AA	INTRON	101497190	probable WRKY transcription factor 26
SNP_106102_A_323030	NW_004517519.1	scaffold2617	323030	AA	GG	GG	INTRON	101497190	probable WRKY transcription factor 26
SNP_106103_A_323067	NW_004517519.1	scaffold2617	323067	GG	TT	TT	INTRON	101497190	probable WRKY transcription factor 26
SNP_106104_A_323077	NW_004517519.1	scaffold2617	323077	AA	GG	GG	INTRON	101497190	probable WRKY transcription factor 26
SNP_106105_A_323247	NW_004517519.1	scaffold2617	323247	GG	TT	TT	INTRON	101497190	probable WRKY transcription factor 26
SNP_106106_A_323891	NW_004517519.1	scaffold2617	323891	TT	CC	CC	NON_SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106107_A_323920	NW_004517519.1	scaffold2617	323920	AA	GG	GG	SYNONYMOUS_CODING	101497190	probable WRKY transcription factor 26
SNP_106109_A_339019	NW_004517519.1	scaffold2617	339019	AA	TT	TT	INTERGENIC		
SNP_106110_A_353570	NW_004517519.1	scaffold2617	353570	GG	AA	AA	INTERGENIC		
SNP_106111_A_371466	NW_004517519.1	scaffold2617	371466	TT	GG	GG	INTERGENIC		
SNP_106112_A_371480	NW_004517519.1	scaffold2617	371480	TT	CC	CC	INTERGENIC		
SNP_106113_A_382303	NW_004517519.1	scaffold2617	382303	GG	AA	AA	INTERGENIC		
SNP_106114_A_402214	NW_004517519.1	scaffold2617	402214	AA	GG	GG	NON_SYNONYMOUS_CODING	id218629	Unknown function
SNP_106115_A_402425	NW_004517519.1	scaffold2617	402425	AA	TT	TT	NON_SYNONYMOUS_CODING	id218629	Unknown function
SNP_106118_A_402545	NW_004517519.1	scaffold2617	402545	AA	TT	TT	URR	101491031	uncharacterized LOC101491031
SNP_106119_A_402577	NW_004517519.1	scaffold2617	402577	GG	AA	AA	URR	101491031	uncharacterized LOC101491031
SNP_106120_A_402678	NW_004517519.1	scaffold2617	402678	CC	AA	AA	URR	101491031	uncharacterized LOC101491031
SNP_106121_A_402796	NW_004517519.1	scaffold2617	402796	CC	TT	TT	URR	101491031	uncharacterized LOC101491031
SNP_106122_A_402803	NW_004517519.1	scaffold2617	402803	AA	GG	GG	URR	101491031	uncharacterized LOC101491031
SNP_106123_A_406944	NW_004517519.1	scaffold2617	406944	TT	CC	CC	INTERGENIC		
SNP_106124_A_444472	NW_004517519.1	scaffold2617	444472	TT	CC	CC	NON_SYNONYMOUS_CODING	101497854	probable WRKY transcription factor 27

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106125_A_444491	NW_004517519.1	scaffold2617	444491	AA	GG	GG	SYNONYMOUS_CODING	101497854	probable WRKY transcription factor 27
SNP_106127_A_472319	NW_004517519.1	scaffold2617	472319	CC	TT	TT	INTERGENIC		
SNP_106128_A_474648	NW_004517519.1	scaffold2617	474648	AA	TT	TT	INTERGENIC		
SNP_106129_A_506635	NW_004517519.1	scaffold2617	506635	CC	TT	TT	URR	101498168	Unknown function
SNP_106130_A_513562	NW_004517519.1	scaffold2617	513562	CC	AA	AA	INTERGENIC		
SNP_106131_A_513744	NW_004517519.1	scaffold2617	513744	GG	CC	CC	INTERGENIC		
SNP_106132_A_513931	NW_004517519.1	scaffold2617	513931	AA	GG	GG	INTERGENIC		
SNP_106133_A_514123	NW_004517519.1	scaffold2617	514123	AA	CC	CC	INTERGENIC		
SNP_106134_A_514151	NW_004517519.1	scaffold2617	514151	TT	GG	GG	INTERGENIC		
SNP_106135_A_514197	NW_004517519.1	scaffold2617	514197	TT	GG	GG	INTERGENIC		
SNP_106136_A_514273	NW_004517519.1	scaffold2617	514273	AA	TT	TT	INTERGENIC		
SNP_106137_A_4263	NW_004517520.1	scaffold2618	4263	AA	CC	CC	INTERGENIC		
SNP_106138_A_4268	NW_004517520.1	scaffold2618	4268	GG	TT	TT	INTERGENIC		
SNP_106139_A_4337	NW_004517520.1	scaffold2618	4337	GG	AA	AA	INTERGENIC		
SNP_106140_A_4837	NW_004517520.1	scaffold2618	4837	TT	CC	CC	INTERGENIC		
SNP_106141_A_25650	NW_004517521.1	scaffold2620	25650	AA	GG	GG	INTERGENIC		
SNP_106142_A_26652	NW_004517521.1	scaffold2620	26652	CC	TT	TT	INTERGENIC		
SNP_106143_A_26680	NW_004517521.1	scaffold2620	26680	GG	AA	AA	INTERGENIC		
SNP_106144_A_26704	NW_004517521.1	scaffold2620	26704	AA	GG	GG	INTERGENIC		
SNP_106145_A_27939	NW_004517521.1	scaffold2620	27939	AA	GG	GG	INTERGENIC		
SNP_106146_A_27978	NW_004517521.1	scaffold2620	27978	AA	GG	GG	INTERGENIC		
SNP_106147_A_28041	NW_004517521.1	scaffold2620	28041	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106148_A_28071	NW_004517521.1	scaffold2620	28071	AA	GG	GG	INTERGENIC			
SNP_106149_A_28072	NW_004517521.1	scaffold2620	28072	CC	TT	TT	INTERGENIC			
SNP_106150_A_28231	NW_004517521.1	scaffold2620	28231	CC	TT	TT	INTERGENIC			
SNP_106151_A_28235	NW_004517521.1	scaffold2620	28235	AA	TT	TT	INTERGENIC			
SNP_106152_A_28239	NW_004517521.1	scaffold2620	28239	TT	CC	CC	INTERGENIC			
SNP_106153_A_28240	NW_004517521.1	scaffold2620	28240	CC	AA	AA	INTERGENIC			
SNP_106154_A_28309	NW_004517521.1	scaffold2620	28309	CC	TT	TT	INTERGENIC			
SNP_106155_A_28387	NW_004517521.1	scaffold2620	28387	TT	CC	CC	INTERGENIC			
SNP_106156_A_28388	NW_004517521.1	scaffold2620	28388	AA	CC	CC	INTERGENIC			
SNP_106157_A_28390	NW_004517521.1	scaffold2620	28390	AA	GG	GG	INTERGENIC			
SNP_106158_A_28401	NW_004517521.1	scaffold2620	28401	CC	GG	GG	INTERGENIC			
SNP_106159_A_28412	NW_004517521.1	scaffold2620	28412	GG	TT	TT	INTERGENIC			
SNP_106160_A_28484	NW_004517521.1	scaffold2620	28484	GG	TT	TT	INTERGENIC			
SNP_106161_A_30755	NW_004517521.1	scaffold2620	30755	GG	CC	CC	INTERGENIC			
SNP_106162_A_34031	NW_004517521.1	scaffold2620	34031	GG	TT	TT	INTERGENIC			
SNP_106163_A_5619	NW_004517522.1	scaffold2621	5619	TT	CC	CC	INTERGENIC			
SNP_106164_A_5630	NW_004517522.1	scaffold2621	5630	AA	GG	GG	INTERGENIC			
SNP_106165_A_5653	NW_004517522.1	scaffold2621	5653	GG	AA	AA	INTERGENIC			
SNP_106166_A_5677	NW_004517522.1	scaffold2621	5677	AA	TT	TT	INTERGENIC			
SNP_106167_A_5699	NW_004517522.1	scaffold2621	5699	TT	CC	CC	INTERGENIC			
SNP_106168_A_5760	NW_004517522.1	scaffold2621	5760	GG	CC	CC	INTERGENIC			
SNP_106169_A_6469	NW_004517522.1	scaffold2621	6469	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106170_A_6520	NW_004517522.1	scaffold2621	6520	GG	TT	TT	INTERGENIC			
SNP_106172_A_6928	NW_004517522.1	scaffold2621	6928	TT	CC	CC	INTERGENIC			
SNP_106173_A_723	NW_004517523.1	scaffold2623	723	AA	TT	TT	INTERGENIC			
SNP_106174_A_824	NW_004517523.1	scaffold2623	824	GG	TT	TT	INTERGENIC			
SNP_106175_A_1208	NW_004517524.1	scaffold2624	1208	TT	AA	AA	INTERGENIC			
SNP_106176_A_9932	NW_004517524.1	scaffold2624	9932	TT	CC	CC	INTERGENIC			
SNP_106177_A_13967	NW_004517524.1	scaffold2624	13967	CC	AA	AA	INTERGENIC			
SNP_106178_A_14073	NW_004517524.1	scaffold2624	14073	CC	GG	GG	INTERGENIC			
SNP_106179_A_14536	NW_004517524.1	scaffold2624	14536	TT	CC	CC	INTERGENIC			
SNP_106180_A_16424	NW_004517524.1	scaffold2624	16424	TT	AA	AA	INTERGENIC			
SNP_106181_A_17469	NW_004517525.1	scaffold2625	17469	AA	TT	TT	INTERGENIC			
SNP_106182_A_671	NW_004517526.1	scaffold2626	671	TT	GG	GG	INTERGENIC			
SNP_106183_A_984	NW_004517526.1	scaffold2626	984	AA	GG	GG	INTERGENIC			
SNP_106184_A_990	NW_004517526.1	scaffold2626	990	AA	GG	GG	INTERGENIC			
SNP_106185_A_1104	NW_004517526.1	scaffold2626	1104	CC	AA	AA	INTERGENIC			
SNP_106186_A_538	NW_004517529.1	scaffold2632	538	TT	CC	CC	INTERGENIC			
SNP_106187_A_442	NW_004517530.1	scaffold2633	442	GG	CC	CC	INTERGENIC			
SNP_106188_A_449	NW_004517530.1	scaffold2633	449	TT	AA	AA	INTERGENIC			
SNP_106189_A_17534	NW_004517530.1	scaffold2633	17534	AA	GG	GG	INTERGENIC			
SNP_106190_A_17549	NW_004517530.1	scaffold2633	17549	TT	CC	CC	INTERGENIC			
SNP_106191_A_21558	NW_004517530.1	scaffold2633	21558	AA	TT	TT	INTERGENIC			
SNP_106192_A_21603	NW_004517530.1	scaffold2633	21603	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106193_A_21622	NW_004517530.1	scaffold2633	21622	GG	AA	AA	INTERGENIC			
SNP_106194_A_3030	NW_004517533.1	scaffold2637	3030	TT	GG	GG	INTERGENIC			
SNP_106195_A_3125	NW_004517533.1	scaffold2637	3125	AA	TT	TT	INTERGENIC			
SNP_106196_A_1299	NW_004517537.1	scaffold2644	1299	CC	TT	TT	INTERGENIC			
SNP_106197_A_11984	NW_004517537.1	scaffold2644	11984	CC	TT	TT	INTERGENIC			
SNP_106198_A_12112	NW_004517537.1	scaffold2644	12112	AA	GG	GG	INTERGENIC			
SNP_106199_A_12136	NW_004517537.1	scaffold2644	12136	TT	AA	AA	INTERGENIC			
SNP_106200_A_21483	NW_004517537.1	scaffold2644	21483	GG	TT	TT	INTERGENIC			
SNP_106201_A_21573	NW_004517537.1	scaffold2644	21573	AA	GG	GG	INTERGENIC			
SNP_106202_A_21621	NW_004517537.1	scaffold2644	21621	AA	GG	GG	INTERGENIC			
SNP_106203_A_22801	NW_004517537.1	scaffold2644	22801	GG	AA	AA	INTERGENIC			
SNP_106204_A_23115	NW_004517537.1	scaffold2644	23115	AA	GG	GG	INTERGENIC			
SNP_106205_A_23616	NW_004517537.1	scaffold2644	23616	CC	AA	AA	INTERGENIC			
SNP_106206_A_24948	NW_004517537.1	scaffold2644	24948	CC	TT	TT	INTERGENIC			
SNP_106207_A_26901	NW_004517541.1	scaffold2649	26901	TT	AA	AA	INTERGENIC			
SNP_106209_A_27733	NW_004517541.1	scaffold2649	27733	AA	GG	GG	INTERGENIC			
SNP_106210_A_27784	NW_004517541.1	scaffold2649	27784	TT	CC	CC	INTERGENIC			
SNP_106211_A_134	NW_004517542.1	scaffold2650	134	GG	AA	AA	INTERGENIC			
SNP_106213_A_187	NW_004517543.1	scaffold2651	187	TT	AA	AA	INTERGENIC			
SNP_106214_A_464	NW_004517543.1	scaffold2651	464	AA	CC	CC	INTERGENIC			
SNP_106215_A_506	NW_004517543.1	scaffold2651	506	TT	CC	CC	INTERGENIC			
SNP_106217_A_4304	NW_004517543.1	scaffold2651	4304	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106218_A_4329	NW_004517543.1	scaffold2651	4329	AA	GG	GG	INTERGENIC		
SNP_106219_A_4448	NW_004517543.1	scaffold2651	4448	TT	AA	AA	INTERGENIC		
SNP_106220_A_4551	NW_004517543.1	scaffold2651	4551	TT	AA	AA	INTERGENIC		
SNP_106221_A_4567	NW_004517543.1	scaffold2651	4567	TT	AA	AA	INTERGENIC		
SNP_106222_A_4689	NW_004517543.1	scaffold2651	4689	GG	CC	CC	INTERGENIC		
SNP_106223_A_12982	NW_004517543.1	scaffold2651	12982	TT	AA	AA	INTERGENIC		
SNP_106224_A_17656	NW_004517543.1	scaffold2651	17656	CC	AA	AA	INTERGENIC		
SNP_106225_A_32457	NW_004517543.1	scaffold2651	32457	AA	TT	TT	INTERGENIC		
SNP_106226_A_32560	NW_004517543.1	scaffold2651	32560	CC	GG	GG	INTERGENIC		
SNP_106227_A_32649	NW_004517543.1	scaffold2651	32649	AA	CC	CC	INTERGENIC		
SNP_106228_A_13994	NW_004517544.1	scaffold2653	13994	CC	AA	AA	INTRON	101499578	Unknown function
SNP_106229_A_14155	NW_004517544.1	scaffold2653	14155	GG	CC	CC	INTRON	101499578	Unknown function
SNP_106230_A_14194	NW_004517544.1	scaffold2653	14194	AA	GG	GG	INTRON	101499578	Unknown function
SNP_106231_A_14357	NW_004517544.1	scaffold2653	14357	AA	CC	CC	INTRON	101499578	Unknown function
SNP_106232_A_14381	NW_004517544.1	scaffold2653	14381	GG	AA	AA	INTRON	101499578	Unknown function
SNP_106233_A_14742	NW_004517544.1	scaffold2653	14742	TT	CC	CC	INTERGENIC		
SNP_106234_A_25423	NW_004517544.1	scaffold2653	25423	TT	GG	GG	URR	101499055	uncharacterized LOC101499055
SNP_106235_A_1674	NW_004517547.1	scaffold2660	1674	CC	AA	AA	INTERGENIC		
SNP_106236_A_3820	NW_004517547.1	scaffold2660	3820	AA	TT	TT	INTERGENIC		
SNP_106238_A_12300	NW_004517547.1	scaffold2660	12300	TT	AA	AA	INTERGENIC		
SNP_106240_A_690	NW_004517548.1	scaffold2662	690	AA	GG	GG	INTERGENIC		
SNP_106241_A_825	NW_004517548.1	scaffold2662	825	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106242_A_1284	NW_004517548.1	scaffold2662	1284	TT	GG	GG	INTERGENIC			
SNP_106244_A_1557	NW_004517548.1	scaffold2662	1557	TT	CC	CC	INTERGENIC			
SNP_106246_A_25622	NW_004517548.1	scaffold2662	25622	GG	TT	TT	INTERGENIC			
SNP_106247_A_25841	NW_004517548.1	scaffold2662	25841	GG	TT	TT	INTERGENIC			
SNP_106249_A_26414	NW_004517548.1	scaffold2662	26414	TT	GG	GG	INTERGENIC			
SNP_106251_A_31436	NW_004517548.1	scaffold2662	31436	CC	TT	TT	INTERGENIC			
SNP_106252_A_34098	NW_004517548.1	scaffold2662	34098	GG	AA	AA	INTERGENIC			
SNP_106253_A_34380	NW_004517548.1	scaffold2662	34380	TT	CC	CC	INTERGENIC			
SNP_106254_A_34402	NW_004517548.1	scaffold2662	34402	AA	CC	CC	INTERGENIC			
SNP_106255_A_34532	NW_004517548.1	scaffold2662	34532	GG	CC	CC	INTERGENIC			
SNP_106256_A_47678	NW_004517548.1	scaffold2662	47678	GG	AA	AA	INTERGENIC			
SNP_106257_A_47707	NW_004517548.1	scaffold2662	47707	TT	GG	GG	INTERGENIC			
SNP_106258_A_2015	NW_004517549.1	scaffold2663	2015	CC	AA	AA	INTERGENIC			
SNP_106259_A_13231	NW_004517553.1	scaffold2668	13231	CC	TT	TT	INTERGENIC			
SNP_106260_A_13317	NW_004517553.1	scaffold2668	13317	TT	GG	GG	INTERGENIC			
SNP_106262_A_4299	NW_004517554.1	scaffold2669	4299	CC	TT	TT	INTERGENIC			
SNP_106263_A_4341	NW_004517554.1	scaffold2669	4341	CC	AA	AA	INTERGENIC			
SNP_106264_A_11927	NW_004517554.1	scaffold2669	11927	CC	GG	GG	URR	101500217	Unknown function	
SNP_106265_A_11960	NW_004517554.1	scaffold2669	11960	GG	CC	CC	URR	101500217	Unknown function	
SNP_106266_A_11991	NW_004517554.1	scaffold2669	11991	GG	TT	TT	URR	101500217	Unknown function	
SNP_106267_A_12041	NW_004517554.1	scaffold2669	12041	TT	CC	CC	URR	101500217	Unknown function	
SNP_106268_A_12103	NW_004517554.1	scaffold2669	12103	CC	TT	TT	URR	101500217	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106269_A_12116	NW_004517554.1	scaffold2669	12116	TT	CC	CC	URR	101500217	Unknown function
SNP_106270_A_12203	NW_004517554.1	scaffold2669	12203	CC	GG	GG	URR	101500217	Unknown function
SNP_106271_A_12256	NW_004517554.1	scaffold2669	12256	TT	CC	CC	URR	101500217	Unknown function
SNP_106272_A_12316	NW_004517554.1	scaffold2669	12316	CC	TT	TT	URR	101500217	Unknown function
SNP_106273_A_12341	NW_004517554.1	scaffold2669	12341	AA	GG	GG	URR	101500217	Unknown function
SNP_106274_A_12364	NW_004517554.1	scaffold2669	12364	TT	GG	GG	URR	101500217	Unknown function
SNP_106275_A_12666	NW_004517554.1	scaffold2669	12666	TT	CC	CC	INTRON	101500528	Unknown function
SNP_106276_A_15556	NW_004517554.1	scaffold2669	15556	TT	GG	GG	URR	101500528	Unknown function
SNP_106277_A_15928	NW_004517554.1	scaffold2669	15928	TT	CC	CC	URR	101500528	Unknown function
SNP_106278_A_15941	NW_004517554.1	scaffold2669	15941	CC	TT	TT	URR	101500528	Unknown function
SNP_106279_A_15950	NW_004517554.1	scaffold2669	15950	AA	CC	CC	URR	101500528	Unknown function
SNP_106281_A_1224	NW_004517555.1	scaffold2670	1224	CC	GG	GG	INTERGENIC		
SNP_106282_A_1262	NW_004517555.1	scaffold2670	1262	CC	TT	TT	INTERGENIC		
SNP_106283_A_1351	NW_004517555.1	scaffold2670	1351	AA	GG	GG	INTERGENIC		
SNP_106284_A_1367	NW_004517555.1	scaffold2670	1367	AA	GG	GG	INTERGENIC		
SNP_106285_A_1443	NW_004517555.1	scaffold2670	1443	TT	CC	CC	INTERGENIC		
SNP_106286_A_1469	NW_004517555.1	scaffold2670	1469	AA	TT	TT	INTERGENIC		
SNP_106287_A_1584	NW_004517555.1	scaffold2670	1584	AA	TT	TT	INTERGENIC		
SNP_106288_A_1585	NW_004517555.1	scaffold2670	1585	TT	CC	CC	INTERGENIC		
SNP_106289_A_1686	NW_004517555.1	scaffold2670	1686	TT	GG	GG	INTERGENIC		
SNP_106290_A_1692	NW_004517555.1	scaffold2670	1692	TT	CC	CC	INTERGENIC		
SNP_106291_A_1706	NW_004517555.1	scaffold2670	1706	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106292_A_1710	NW_004517555.1	scaffold2670	1710	TT	CC	CC	INTERGENIC			
SNP_106293_A_1711	NW_004517555.1	scaffold2670	1711	CC	AA	AA	INTERGENIC			
SNP_106294_A_1712	NW_004517555.1	scaffold2670	1712	GG	AA	AA	INTERGENIC			
SNP_106295_A_8126	NW_004517555.1	scaffold2670	8126	CC	AA	AA	INTERGENIC			
SNP_106296_A_11858	NW_004517555.1	scaffold2670	11858	AA	GG	GG	INTERGENIC			
SNP_106297_A_26154	NW_004517555.1	scaffold2670	26154	TT	CC	CC	INTERGENIC			
SNP_106298_A_26215	NW_004517555.1	scaffold2670	26215	AA	GG	GG	INTERGENIC			
SNP_106299_A_26219	NW_004517555.1	scaffold2670	26219	AA	CC	CC	INTERGENIC			
SNP_106300_A_26220	NW_004517555.1	scaffold2670	26220	AA	TT	TT	INTERGENIC			
SNP_106301_A_26227	NW_004517555.1	scaffold2670	26227	AA	TT	TT	INTERGENIC			
SNP_106302_A_26271	NW_004517555.1	scaffold2670	26271	AA	CC	CC	INTERGENIC			
SNP_106303_A_26326	NW_004517555.1	scaffold2670	26326	TT	AA	AA	INTERGENIC			
SNP_106304_A_26510	NW_004517555.1	scaffold2670	26510	CC	TT	TT	INTERGENIC			
SNP_106305_A_26569	NW_004517555.1	scaffold2670	26569	TT	CC	CC	INTERGENIC			
SNP_106306_A_26634	NW_004517555.1	scaffold2670	26634	AA	CC	CC	INTERGENIC			
SNP_106307_A_26643	NW_004517555.1	scaffold2670	26643	CC	AA	AA	INTERGENIC			
SNP_106308_A_26650	NW_004517555.1	scaffold2670	26650	CC	AA	AA	INTERGENIC			
SNP_106309_A_26812	NW_004517555.1	scaffold2670	26812	AA	GG	GG	INTERGENIC			
SNP_106310_A_26836	NW_004517555.1	scaffold2670	26836	AA	GG	GG	INTERGENIC			
SNP_106311_A_26851	NW_004517555.1	scaffold2670	26851	AA	CC	CC	INTERGENIC			
SNP_106312_A_26865	NW_004517555.1	scaffold2670	26865	AA	TT	TT	INTERGENIC			
SNP_106313_A_26881	NW_004517555.1	scaffold2670	26881	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106314_A_34890	NW_004517555.1	scaffold2670	34890	CC	GG	GG	INTERGENIC			
SNP_106315_A_34923	NW_004517555.1	scaffold2670	34923	TT	CC	CC	INTERGENIC			
SNP_106316_A_36699	NW_004517555.1	scaffold2670	36699	CC	GG	GG	INTERGENIC			
SNP_106317_A_36771	NW_004517555.1	scaffold2670	36771	TT	CC	CC	INTERGENIC			
SNP_106318_A_36792	NW_004517555.1	scaffold2670	36792	TT	CC	CC	INTERGENIC			
SNP_106319_A_36865	NW_004517555.1	scaffold2670	36865	CC	TT	TT	INTERGENIC			
SNP_106321_A_37018	NW_004517555.1	scaffold2670	37018	TT	CC	CC	INTERGENIC			
SNP_106322_A_37040	NW_004517555.1	scaffold2670	37040	CC	TT	TT	INTERGENIC			
SNP_106323_A_37041	NW_004517555.1	scaffold2670	37041	CC	AA	AA	INTERGENIC			
SNP_106324_A_37077	NW_004517555.1	scaffold2670	37077	CC	TT	TT	INTERGENIC			
SNP_106325_A_37228	NW_004517555.1	scaffold2670	37228	AA	GG	GG	INTERGENIC			
SNP_106326_A_42769	NW_004517555.1	scaffold2670	42769	AA	GG	GG	INTERGENIC			
SNP_106327_A_42787	NW_004517555.1	scaffold2670	42787	AA	GG	GG	INTERGENIC			
SNP_106328_A_42835	NW_004517555.1	scaffold2670	42835	CC	GG	GG	INTERGENIC			
SNP_106329_A_43022	NW_004517555.1	scaffold2670	43022	GG	CC	CC	INTERGENIC			
SNP_106330_A_43458	NW_004517555.1	scaffold2670	43458	AA	TT	TT	INTERGENIC			
SNP_106331_A_43468	NW_004517555.1	scaffold2670	43468	GG	TT	TT	INTERGENIC			
SNP_106332_A_43534	NW_004517555.1	scaffold2670	43534	TT	AA	AA	INTERGENIC			
SNP_106333_A_43544	NW_004517555.1	scaffold2670	43544	GG	AA	AA	INTERGENIC			
SNP_106334_A_43550	NW_004517555.1	scaffold2670	43550	AA	GG	GG	INTERGENIC			
SNP_106335_A_43835	NW_004517555.1	scaffold2670	43835	CC	TT	TT	INTERGENIC			
SNP_106336_A_43838	NW_004517555.1	scaffold2670	43838	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106337_A_43854	NW_004517555.1	scaffold2670	43854	AA	TT	TT	INTERGENIC			
SNP_106338_A_43859	NW_004517555.1	scaffold2670	43859	TT	GG	GG	INTERGENIC			
SNP_106339_A_43942	NW_004517555.1	scaffold2670	43942	CC	TT	TT	INTERGENIC			
SNP_106340_A_43997	NW_004517555.1	scaffold2670	43997	AA	CC	CC	INTERGENIC			
SNP_106341_A_44072	NW_004517555.1	scaffold2670	44072	TT	GG	GG	INTERGENIC			
SNP_106342_A_44074	NW_004517555.1	scaffold2670	44074	CC	GG	GG	INTERGENIC			
SNP_106343_A_44885	NW_004517555.1	scaffold2670	44885	AA	TT	TT	INTERGENIC			
SNP_106344_A_45748	NW_004517555.1	scaffold2670	45748	TT	CC	CC	INTERGENIC			
SNP_106345_A_45778	NW_004517555.1	scaffold2670	45778	CC	AA	AA	INTERGENIC			
SNP_106346_A_62447	NW_004517555.1	scaffold2670	62447	AA	CC	CC	INTERGENIC			
SNP_106347_A_63154	NW_004517555.1	scaffold2670	63154	AA	GG	GG	INTERGENIC			
SNP_106348_A_63196	NW_004517555.1	scaffold2670	63196	CC	TT	TT	INTERGENIC			
SNP_106349_A_67189	NW_004517555.1	scaffold2670	67189	TT	GG	GG	INTERGENIC			
SNP_106350_A_67240	NW_004517555.1	scaffold2670	67240	AA	GG	GG	INTERGENIC			
SNP_106351_A_73787	NW_004517555.1	scaffold2670	73787	CC	TT	TT	INTERGENIC			
SNP_106352_A_73789	NW_004517555.1	scaffold2670	73789	CC	GG	GG	INTERGENIC			
SNP_106353_A_84120	NW_004517555.1	scaffold2670	84120	AA	TT	TT	INTERGENIC			
SNP_106354_A_98119	NW_004517555.1	scaffold2670	98119	GG	TT	TT	INTERGENIC			
SNP_106355_A_130064	NW_004517555.1	scaffold2670	130064	CC	AA	AA	INTERGENIC			
SNP_106356_A_133327	NW_004517555.1	scaffold2670	133327	AA	GG	GG	INTERGENIC			
SNP_106357_A_140565	NW_004517555.1	scaffold2670	140565	AA	GG	GG	INTERGENIC			
SNP_106359_A_149154	NW_004517555.1	scaffold2670	149154	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106360_A_149198	NW_004517555.1	scaffold2670	149198	TT	CC	CC	INTERGENIC			
SNP_106361_A_149426	NW_004517555.1	scaffold2670	149426	AA	CC	CC	INTERGENIC			
SNP_106362_A_149429	NW_004517555.1	scaffold2670	149429	CC	TT	TT	INTERGENIC			
SNP_106363_A_149468	NW_004517555.1	scaffold2670	149468	CC	AA	AA	INTERGENIC			
SNP_106364_A_149501	NW_004517555.1	scaffold2670	149501	GG	CC	CC	INTERGENIC			
SNP_106365_A_149606	NW_004517555.1	scaffold2670	149606	AA	GG	GG	INTERGENIC			
SNP_106366_A_149653	NW_004517555.1	scaffold2670	149653	CC	TT	TT	INTERGENIC			
SNP_106367_A_149661	NW_004517555.1	scaffold2670	149661	CC	AA	AA	INTERGENIC			
SNP_106369_A_4330	NW_004517556.1	scaffold2672	4330	GG	AA	AA	INTERGENIC			
SNP_106370_A_4363	NW_004517556.1	scaffold2672	4363	AA	TT	TT	INTERGENIC			
SNP_106371_A_4435	NW_004517556.1	scaffold2672	4435	TT	CC	CC	INTERGENIC			
SNP_106372_A_4512	NW_004517556.1	scaffold2672	4512	TT	GG	GG	INTERGENIC			
SNP_106373_A_4649	NW_004517556.1	scaffold2672	4649	GG	TT	TT	INTERGENIC			
SNP_106374_A_4654	NW_004517556.1	scaffold2672	4654	AA	CC	CC	INTERGENIC			
SNP_106375_A_4980	NW_004517556.1	scaffold2672	4980	CC	TT	TT	INTERGENIC			
SNP_106376_A_1477	NW_004517557.1	scaffold2675	1477	CC	TT	TT	INTERGENIC			
SNP_106377_A_1491	NW_004517557.1	scaffold2675	1491	CC	AA	AA	INTERGENIC			
SNP_106378_A_1492	NW_004517557.1	scaffold2675	1492	TT	GG	GG	INTERGENIC			
SNP_106379_A_3462	NW_004517559.1	scaffold2678	3462	AA	GG	GG	INTERGENIC			
SNP_106380_A_37418	NW_004517559.1	scaffold2678	37418	GG	TT	TT	DRR	101501489	uncharacterized LOC101501489	
SNP_106381_A_53899	NW_004517559.1	scaffold2678	53899	TT	CC	CC	INTERGENIC			
SNP_106382_A_68825	NW_004517559.1	scaffold2678	68825	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106383_A_88652	NW_004517559.1	scaffold2678	88652	AA	CC	CC	INTERGENIC			
SNP_106384_A_101332	NW_004517559.1	scaffold2678	101332	CC	TT	TT	INTERGENIC			
SNP_106385_A_1775	NW_004517562.1	scaffold2684	1775	AA	CC	CC	INTERGENIC			
SNP_106386_A_595	NW_004517568.1	scaffold2691	595	TT	AA	AA	INTERGENIC			
SNP_106387_A_628	NW_004517568.1	scaffold2691	628	CC	TT	TT	INTERGENIC			
SNP_106388_A_672	NW_004517568.1	scaffold2691	672	AA	TT	TT	INTERGENIC			
SNP_106389_A_718	NW_004517568.1	scaffold2691	718	TT	CC	CC	INTERGENIC			
SNP_106390_A_748	NW_004517568.1	scaffold2691	748	CC	TT	TT	INTERGENIC			
SNP_106391_A_934	NW_004517568.1	scaffold2691	934	GG	TT	TT	INTERGENIC			
SNP_106392_A_955	NW_004517568.1	scaffold2691	955	CC	TT	TT	INTERGENIC			
SNP_106393_A_854	NW_004517569.1	scaffold2692	854	CC	TT	TT	INTERGENIC			
SNP_106394_A_903	NW_004517569.1	scaffold2692	903	CC	GG	GG	INTERGENIC			
SNP_106395_A_1057	NW_004517569.1	scaffold2692	1057	AA	TT	TT	INTERGENIC			
SNP_106396_A_1202	NW_004517569.1	scaffold2692	1202	CC	TT	TT	INTERGENIC			
SNP_106397_A_1216	NW_004517569.1	scaffold2692	1216	TT	CC	CC	INTERGENIC			
SNP_106398_A_1228	NW_004517569.1	scaffold2692	1228	GG	TT	TT	INTERGENIC			
SNP_106399_A_1245	NW_004517569.1	scaffold2692	1245	TT	AA	AA	INTERGENIC			
SNP_106400_A_1335	NW_004517569.1	scaffold2692	1335	CC	GG	GG	INTERGENIC			
SNP_106401_A_8819	NW_004517569.1	scaffold2692	8819	GG	AA	AA	INTERGENIC			
SNP_106402_A_11154	NW_004517569.1	scaffold2692	11154	GG	TT	TT	INTERGENIC			
SNP_106403_A_12655	NW_004517569.1	scaffold2692	12655	AA	TT	TT	INTERGENIC			
SNP_106404_A_12715	NW_004517569.1	scaffold2692	12715	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106405_A_12725	NW_004517569.1	scaffold2692	12725	CC	TT	TT	INTERGENIC			
SNP_106406_A_12829	NW_004517569.1	scaffold2692	12829	AA	GG	GG	INTERGENIC			
SNP_106407_A_12846	NW_004517569.1	scaffold2692	12846	CC	TT	TT	INTERGENIC			
SNP_106408_A_12861	NW_004517569.1	scaffold2692	12861	TT	CC	CC	INTERGENIC			
SNP_106409_A_12974	NW_004517569.1	scaffold2692	12974	AA	TT	TT	INTERGENIC			
SNP_106411_A_13939	NW_004517569.1	scaffold2692	13939	TT	CC	CC	INTERGENIC			
SNP_106413_A_14283	NW_004517569.1	scaffold2692	14283	CC	TT	TT	INTERGENIC			
SNP_106414_A_14453	NW_004517569.1	scaffold2692	14453	CC	GG	GG	INTERGENIC			
SNP_106416_A_14651	NW_004517569.1	scaffold2692	14651	TT	CC	CC	INTERGENIC			
SNP_106417_A_14743	NW_004517569.1	scaffold2692	14743	CC	TT	TT	INTERGENIC			
SNP_106419_A_14900	NW_004517569.1	scaffold2692	14900	TT	GG	GG	INTERGENIC			
SNP_106420_A_14906	NW_004517569.1	scaffold2692	14906	AA	TT	TT	INTERGENIC			
SNP_106421_A_15088	NW_004517569.1	scaffold2692	15088	AA	TT	TT	INTERGENIC			
SNP_106422_A_65	NW_004517571.1	scaffold2695	65	TT	AA	AA	INTERGENIC			
SNP_106423_A_386	NW_004517571.1	scaffold2695	386	TT	GG	GG	INTERGENIC			
SNP_106424_A_7440	NW_004517571.1	scaffold2695	7440	GG	AA	AA	INTERGENIC			
SNP_106425_A_7451	NW_004517571.1	scaffold2695	7451	GG	TT	TT	INTERGENIC			
SNP_106426_A_7512	NW_004517571.1	scaffold2695	7512	AA	GG	GG	INTERGENIC			
SNP_106427_A_7672	NW_004517571.1	scaffold2695	7672	TT	CC	CC	INTERGENIC			
SNP_106428_A_7984	NW_004517571.1	scaffold2695	7984	GG	CC	CC	INTERGENIC			
SNP_106429_A_7995	NW_004517571.1	scaffold2695	7995	TT	GG	GG	INTERGENIC			
SNP_106430_A_8003	NW_004517571.1	scaffold2695	8003	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106431_A_12404	NW_004517571.1	scaffold2695	12404	TT	AA	AA	INTERGENIC		
SNP_106432_A_4034	NW_004517575.1	scaffold2700	4034	CC	TT	TT	URR	101502649	Unknown function
SNP_106433_A_4183	NW_004517575.1	scaffold2700	4183	CC	AA	AA	URR	101502649	Unknown function
SNP_106434_A_10303	NW_004517575.1	scaffold2700	10303	GG	AA	AA	INTERGENIC		
SNP_106435_A_10348	NW_004517575.1	scaffold2700	10348	AA	GG	GG	INTERGENIC		
SNP_106436_A_10606	NW_004517575.1	scaffold2700	10606	GG	TT	TT	INTERGENIC		
SNP_106437_A_10622	NW_004517575.1	scaffold2700	10622	GG	AA	AA	INTERGENIC		
SNP_106438_A_10642	NW_004517575.1	scaffold2700	10642	TT	CC	CC	INTERGENIC		
SNP_106439_A_10649	NW_004517575.1	scaffold2700	10649	TT	GG	GG	INTERGENIC		
SNP_106440_A_11067	NW_004517575.1	scaffold2700	11067	AA	CC	CC	INTERGENIC		
SNP_106441_A_749	NW_004517577.1	scaffold2703	749	CC	TT	TT	INTERGENIC		
SNP_106442_A_335	NW_004517578.1	scaffold2705	335	CC	AA	AA	INTERGENIC		
SNP_106443_A_409	NW_004517578.1	scaffold2705	409	TT	AA	AA	INTERGENIC		
SNP_106444_A_436	NW_004517578.1	scaffold2705	436	CC	AA	AA	INTERGENIC		
SNP_106445_A_459	NW_004517578.1	scaffold2705	459	GG	CC	CC	INTERGENIC		
SNP_106446_A_519	NW_004517578.1	scaffold2705	519	AA	GG	GG	INTERGENIC		
SNP_106447_A_566	NW_004517578.1	scaffold2705	566	GG	TT	TT	INTERGENIC		
SNP_106448_A_653	NW_004517578.1	scaffold2705	653	AA	GG	GG	INTERGENIC		
SNP_106449_A_738	NW_004517578.1	scaffold2705	738	AA	GG	GG	INTERGENIC		
SNP_106450_A_799	NW_004517578.1	scaffold2705	799	CC	GG	GG	INTERGENIC		
SNP_106451_A_920	NW_004517578.1	scaffold2705	920	TT	CC	CC	INTERGENIC		
SNP_106452_A_1158	NW_004517578.1	scaffold2705	1158	AA	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106453_A_1160	NW_004517578.1	scaffold2705	1160	TT	CC	CC	INTERGENIC			
SNP_106454_A_1179	NW_004517578.1	scaffold2705	1179	AA	CC	CC	INTERGENIC			
SNP_106455_A_1376	NW_004517578.1	scaffold2705	1376	TT	CC	CC	INTERGENIC			
SNP_106456_A_1599	NW_004517578.1	scaffold2705	1599	TT	AA	AA	INTERGENIC			
SNP_106457_A_5603	NW_004517579.1	scaffold2706	5603	TT	CC	CC	INTERGENIC			
SNP_106458_A_5934	NW_004517579.1	scaffold2706	5934	CC	TT	TT	INTERGENIC			
SNP_106459_A_17749	NW_004517580.1	scaffold2707	17749	TT	CC	CC	INTERGENIC			
SNP_106460_A_17784	NW_004517580.1	scaffold2707	17784	TT	CC	CC	INTERGENIC			
SNP_106461_A_17785	NW_004517580.1	scaffold2707	17785	GG	AA	AA	INTERGENIC			
SNP_106462_A_17810	NW_004517580.1	scaffold2707	17810	AA	GG	GG	INTERGENIC			
SNP_106463_A_17836	NW_004517580.1	scaffold2707	17836	AA	TT	TT	INTERGENIC			
SNP_106464_A_18549	NW_004517580.1	scaffold2707	18549	AA	GG	GG	INTERGENIC			
SNP_106465_A_5083	NW_004517581.1	scaffold2709	5083	TT	CC	CC	INTERGENIC			
SNP_106466_A_9149	NW_004517581.1	scaffold2709	9149	TT	AA	AA	INTERGENIC			
SNP_106467_A_9538	NW_004517581.1	scaffold2709	9538	TT	CC	CC	INTERGENIC			
SNP_106468_A_9564	NW_004517581.1	scaffold2709	9564	CC	AA	AA	INTERGENIC			
SNP_106469_A_28794	NW_004517581.1	scaffold2709	28794	TT	AA	AA	INTERGENIC			
SNP_106470_A_705	NW_004517582.1	scaffold2710	705	GG	TT	TT	INTERGENIC			
SNP_106471_A_730	NW_004517582.1	scaffold2710	730	AA	GG	GG	INTERGENIC			
SNP_106472_A_19072	NW_004517582.1	scaffold2710	19072	CC	TT	TT	INTERGENIC			
SNP_106473_A_20451	NW_004517583.1	scaffold2711	20451	AA	GG	GG	INTERGENIC			
SNP_106474_A_20469	NW_004517583.1	scaffold2711	20469	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106475_A_20496	NW_004517583.1	scaffold2711	20496	AA	TT	TT	INTERGENIC			
SNP_106476_A_20510	NW_004517583.1	scaffold2711	20510	GG	AA	AA	INTERGENIC			
SNP_106477_A_20525	NW_004517583.1	scaffold2711	20525	TT	CC	CC	INTERGENIC			
SNP_106478_A_25581	NW_004517586.1	scaffold2715	25581	CC	TT	TT	INTERGENIC			
SNP_106479_A_26162	NW_004517586.1	scaffold2715	26162	TT	CC	CC	INTERGENIC			
SNP_106480_A_33874	NW_004517586.1	scaffold2715	33874	CC	GG	GG	INTERGENIC			
SNP_106481_A_35644	NW_004517586.1	scaffold2715	35644	GG	AA	AA	INTERGENIC			
SNP_106482_A_36678	NW_004517586.1	scaffold2715	36678	AA	GG	GG	INTERGENIC			
SNP_106483_A_39965	NW_004517586.1	scaffold2715	39965	AA	TT	TT	INTERGENIC			
SNP_106484_A_39984	NW_004517586.1	scaffold2715	39984	TT	CC	CC	INTERGENIC			
SNP_106485_A_39997	NW_004517586.1	scaffold2715	39997	GG	AA	AA	INTERGENIC			
SNP_106486_A_39998	NW_004517586.1	scaffold2715	39998	GG	AA	AA	INTERGENIC			
SNP_106487_A_40007	NW_004517586.1	scaffold2715	40007	TT	CC	CC	INTERGENIC			
SNP_106488_A_41791	NW_004517586.1	scaffold2715	41791	CC	TT	TT	INTERGENIC			
SNP_106489_A_41800	NW_004517586.1	scaffold2715	41800	TT	GG	GG	INTERGENIC			
SNP_106490_A_41832	NW_004517586.1	scaffold2715	41832	TT	AA	AA	INTERGENIC			
SNP_106491_A_42208	NW_004517586.1	scaffold2715	42208	AA	GG	GG	INTERGENIC			
SNP_106492_A_42305	NW_004517586.1	scaffold2715	42305	GG	AA	AA	INTERGENIC			
SNP_106493_A_233	NW_004517589.1	scaffold2719	233	GG	CC	CC	INTERGENIC			
SNP_106494_A_2494	NW_004517590.1	scaffold2720	2494	CC	TT	TT	INTERGENIC			
SNP_106495_A_17548	NW_004517590.1	scaffold2720	17548	TT	CC	CC	INTERGENIC			
SNP_106496_A_17686	NW_004517590.1	scaffold2720	17686	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106497_A_19268	NW_004517590.1	scaffold2720	19268	GG	TT	TT	INTERGENIC			
SNP_106498_A_26424	NW_004517590.1	scaffold2720	26424	CC	TT	TT	INTERGENIC			
SNP_106499_A_26603	NW_004517590.1	scaffold2720	26603	AA	CC	CC	INTERGENIC			
SNP_106500_A_26698	NW_004517590.1	scaffold2720	26698	CC	AA	AA	INTERGENIC			
SNP_106501_A_26700	NW_004517590.1	scaffold2720	26700	GG	AA	AA	INTERGENIC			
SNP_106502_A_27349	NW_004517590.1	scaffold2720	27349	CC	TT	TT	INTERGENIC			
SNP_106503_A_28326	NW_004517590.1	scaffold2720	28326	AA	TT	TT	INTERGENIC			
SNP_106504_A_28595	NW_004517590.1	scaffold2720	28595	GG	TT	TT	INTERGENIC			
SNP_106505_A_28647	NW_004517590.1	scaffold2720	28647	GG	CC	CC	INTERGENIC			
SNP_106506_A_29026	NW_004517590.1	scaffold2720	29026	AA	GG	GG	INTERGENIC			
SNP_106507_A_80431	NW_004517590.1	scaffold2720	80431	TT	CC	CC	INTERGENIC			
SNP_106508_A_80433	NW_004517590.1	scaffold2720	80433	AA	GG	GG	INTERGENIC			
SNP_106509_A_120125	NW_004517590.1	scaffold2720	120125	TT	GG	GG	INTERGENIC			
SNP_106510_A_120244	NW_004517590.1	scaffold2720	120244	CC	TT	TT	INTERGENIC			
SNP_106511_A_120287	NW_004517590.1	scaffold2720	120287	TT	CC	CC	INTERGENIC			
SNP_106512_A_123891	NW_004517590.1	scaffold2720	123891	CC	TT	TT	INTERGENIC			
SNP_106513_A_125635	NW_004517590.1	scaffold2720	125635	TT	CC	CC	INTERGENIC			
SNP_106514_A_125637	NW_004517590.1	scaffold2720	125637	AA	TT	TT	INTERGENIC			
SNP_106515_A_126647	NW_004517590.1	scaffold2720	126647	TT	GG	GG	INTERGENIC			
SNP_106516_A_126681	NW_004517590.1	scaffold2720	126681	TT	CC	CC	INTERGENIC			
SNP_106517_A_126683	NW_004517590.1	scaffold2720	126683	AA	CC	CC	INTERGENIC			
SNP_106518_A_127026	NW_004517590.1	scaffold2720	127026	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106519_A_127128	NW_004517590.1	scaffold2720	127128	TT	CC	CC	INTERGENIC			
SNP_106520_A_131739	NW_004517590.1	scaffold2720	131739	CC	TT	TT	INTERGENIC			
SNP_106521_A_131882	NW_004517590.1	scaffold2720	131882	AA	GG	GG	INTERGENIC			
SNP_106522_A_131951	NW_004517590.1	scaffold2720	131951	AA	GG	GG	INTERGENIC			
SNP_106523_A_132007	NW_004517590.1	scaffold2720	132007	AA	GG	GG	INTERGENIC			
SNP_106524_A_132021	NW_004517590.1	scaffold2720	132021	CC	GG	GG	INTERGENIC			
SNP_106525_A_132032	NW_004517590.1	scaffold2720	132032	CC	TT	TT	INTERGENIC			
SNP_106526_A_132062	NW_004517590.1	scaffold2720	132062	TT	CC	CC	INTERGENIC			
SNP_106527_A_132111	NW_004517590.1	scaffold2720	132111	AA	GG	GG	INTERGENIC			
SNP_106528_A_174053	NW_004517590.1	scaffold2720	174053	AA	CC	CC	INTERGENIC			
SNP_106529_A_174285	NW_004517590.1	scaffold2720	174285	CC	TT	TT	INTERGENIC			
SNP_106530_A_174293	NW_004517590.1	scaffold2720	174293	GG	AA	AA	INTERGENIC			
SNP_106531_A_174297	NW_004517590.1	scaffold2720	174297	AA	GG	GG	INTERGENIC			
SNP_106532_A_174419	NW_004517590.1	scaffold2720	174419	TT	CC	CC	INTERGENIC			
SNP_106533_A_174485	NW_004517590.1	scaffold2720	174485	AA	GG	GG	INTERGENIC			
SNP_106534_A_176082	NW_004517590.1	scaffold2720	176082	GG	AA	AA	INTERGENIC			
SNP_106535_A_182820	NW_004517590.1	scaffold2720	182820	GG	CC	CC	INTERGENIC			
SNP_106536_A_182827	NW_004517590.1	scaffold2720	182827	TT	CC	CC	INTERGENIC			
SNP_106537_A_182884	NW_004517590.1	scaffold2720	182884	TT	CC	CC	INTERGENIC			
SNP_106538_A_182906	NW_004517590.1	scaffold2720	182906	AA	GG	GG	INTERGENIC			
SNP_106539_A_182931	NW_004517590.1	scaffold2720	182931	AA	GG	GG	INTERGENIC			
SNP_106540_A_182952	NW_004517590.1	scaffold2720	182952	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106541_A_182966	NW_004517590.1	scaffold2720	182966	TT	CC	CC	INTERGENIC			
SNP_106542_A_183280	NW_004517590.1	scaffold2720	183280	TT	CC	CC	INTERGENIC			
SNP_106543_A_223949	NW_004517590.1	scaffold2720	223949	CC	TT	TT	INTERGENIC			
SNP_106544_A_223974	NW_004517590.1	scaffold2720	223974	CC	AA	AA	INTERGENIC			
SNP_106545_A_224015	NW_004517590.1	scaffold2720	224015	CC	TT	TT	INTERGENIC			
SNP_106546_A_224257	NW_004517590.1	scaffold2720	224257	TT	CC	CC	INTERGENIC			
SNP_106547_A_224444	NW_004517590.1	scaffold2720	224444	AA	GG	GG	INTERGENIC			
SNP_106548_A_224456	NW_004517590.1	scaffold2720	224456	AA	TT	TT	INTERGENIC			
SNP_106549_A_740	NW_004517591.1	scaffold2722	740	AA	GG	GG	INTERGENIC			
SNP_106550_A_752	NW_004517591.1	scaffold2722	752	TT	CC	CC	INTERGENIC			
SNP_106551_A_754	NW_004517591.1	scaffold2722	754	GG	AA	AA	INTERGENIC			
SNP_106552_A_759	NW_004517591.1	scaffold2722	759	GG	AA	AA	INTERGENIC			
SNP_106553_A_790	NW_004517591.1	scaffold2722	790	GG	CC	CC	INTERGENIC			
SNP_106554_A_804	NW_004517591.1	scaffold2722	804	GG	TT	TT	INTERGENIC			
SNP_106555_A_951	NW_004517591.1	scaffold2722	951	AA	GG	GG	INTERGENIC			
SNP_106556_A_1949	NW_004517591.1	scaffold2722	1949	CC	AA	AA	INTERGENIC			
SNP_106557_A_18165	NW_004517591.1	scaffold2722	18165	CC	AA	AA	INTERGENIC			
SNP_106558_A_27153	NW_004517591.1	scaffold2722	27153	TT	AA	AA	INTERGENIC			
SNP_106559_A_27154	NW_004517591.1	scaffold2722	27154	CC	AA	AA	INTERGENIC			
SNP_106560_A_52676	NW_004517591.1	scaffold2722	52676	AA	TT	TT	INTERGENIC			
SNP_106562_A_77478	NW_004517591.1	scaffold2722	77478	CC	AA	AA	INTERGENIC			
SNP_106564_A_18853	NW_004517592.1	scaffold2724	18853	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106565_A_1033	NW_004517593.1	scaffold2725	1033	TT	CC	CC	INTERGENIC			
SNP_106566_A_3015	NW_004517593.1	scaffold2725	3015	GG	AA	AA	INTERGENIC			
SNP_106567_A_3043	NW_004517593.1	scaffold2725	3043	AA	GG	GG	INTERGENIC			
SNP_106568_A_3069	NW_004517593.1	scaffold2725	3069	TT	GG	GG	INTERGENIC			
SNP_106569_A_3115	NW_004517593.1	scaffold2725	3115	GG	AA	AA	INTERGENIC			
SNP_106570_A_3601	NW_004517593.1	scaffold2725	3601	AA	TT	TT	INTERGENIC			
SNP_106571_A_3603	NW_004517593.1	scaffold2725	3603	AA	GG	GG	INTERGENIC			
SNP_106572_A_3269	NW_004517594.1	scaffold2726	3269	TT	GG	GG	INTERGENIC			
SNP_106573_A_3276	NW_004517594.1	scaffold2726	3276	AA	CC	CC	INTERGENIC			
SNP_106574_A_4389	NW_004517594.1	scaffold2726	4389	CC	AA	AA	INTERGENIC			
SNP_106576_A_1509	NW_004517595.1	scaffold2727	1509	TT	CC	CC	INTERGENIC			
SNP_106577_A_1720	NW_004517595.1	scaffold2727	1720	CC	GG	GG	INTERGENIC			
SNP_106578_A_1760	NW_004517595.1	scaffold2727	1760	AA	GG	GG	INTERGENIC			
SNP_106579_A_1819	NW_004517595.1	scaffold2727	1819	GG	AA	AA	INTERGENIC			
SNP_106580_A_902	NW_004517596.1	scaffold2728	902	AA	GG	GG	INTERGENIC			
SNP_106581_A_920	NW_004517596.1	scaffold2728	920	TT	GG	GG	INTERGENIC			
SNP_106582_A_966	NW_004517596.1	scaffold2728	966	AA	CC	CC	INTERGENIC			
SNP_106583_A_935	NW_004517597.1	scaffold2729	935	TT	GG	GG	INTERGENIC			
SNP_106585_A_1285	NW_004517597.1	scaffold2729	1285	AA	GG	GG	INTERGENIC			
SNP_106586_A_1313	NW_004517597.1	scaffold2729	1313	TT	CC	CC	INTERGENIC			
SNP_106587_A_3233	NW_004517597.1	scaffold2729	3233	TT	CC	CC	INTERGENIC			
SNP_106588_A_3286	NW_004517597.1	scaffold2729	3286	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106589_A_3306	NW_004517597.1	scaffold2729	3306	CC	AA	AA	INTERGENIC			
SNP_106591_A_5820	NW_004517597.1	scaffold2729	5820	GG	AA	AA	INTERGENIC			
SNP_106592_A_5831	NW_004517597.1	scaffold2729	5831	GG	AA	AA	INTERGENIC			
SNP_106593_A_5848	NW_004517597.1	scaffold2729	5848	TT	CC	CC	INTERGENIC			
SNP_106594_A_5850	NW_004517597.1	scaffold2729	5850	GG	AA	AA	INTERGENIC			
SNP_106595_A_5861	NW_004517597.1	scaffold2729	5861	CC	TT	TT	INTERGENIC			
SNP_106597_A_5927	NW_004517597.1	scaffold2729	5927	GG	AA	AA	INTERGENIC			
SNP_106598_A_5946	NW_004517597.1	scaffold2729	5946	GG	AA	AA	INTERGENIC			
SNP_106599_A_5961	NW_004517597.1	scaffold2729	5961	TT	CC	CC	INTERGENIC			
SNP_106600_A_6531	NW_004517597.1	scaffold2729	6531	AA	GG	GG	INTERGENIC			
SNP_106601_A_6836	NW_004517597.1	scaffold2729	6836	AA	GG	GG	INTERGENIC			
SNP_106602_A_6838	NW_004517597.1	scaffold2729	6838	CC	TT	TT	INTERGENIC			
SNP_106603_A_6855	NW_004517597.1	scaffold2729	6855	TT	GG	GG	INTERGENIC			
SNP_106604_A_6905	NW_004517597.1	scaffold2729	6905	GG	AA	AA	INTERGENIC			
SNP_106606_A_6936	NW_004517597.1	scaffold2729	6936	GG	AA	AA	INTERGENIC			
SNP_106607_A_6973	NW_004517597.1	scaffold2729	6973	CC	GG	GG	INTERGENIC			
SNP_106608_A_6987	NW_004517597.1	scaffold2729	6987	GG	AA	AA	INTERGENIC			
SNP_106609_A_6988	NW_004517597.1	scaffold2729	6988	CC	TT	TT	INTERGENIC			
SNP_106610_A_7911	NW_004517597.1	scaffold2729	7911	TT	CC	CC	INTERGENIC			
SNP_106611_A_8646	NW_004517597.1	scaffold2729	8646	TT	AA	AA	INTERGENIC			
SNP_106612_A_12143	NW_004517597.1	scaffold2729	12143	TT	AA	AA	INTERGENIC			
SNP_106613_A_12146	NW_004517597.1	scaffold2729	12146	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106614_A_326	NW_004517601.1	scaffold2734	326	CC	AA	AA	INTERGENIC			
SNP_106615_A_415	NW_004517601.1	scaffold2734	415	CC	GG	GG	INTERGENIC			
SNP_106616_A_428	NW_004517601.1	scaffold2734	428	AA	TT	TT	INTERGENIC			
SNP_106617_A_508	NW_004517601.1	scaffold2734	508	AA	GG	GG	INTERGENIC			
SNP_106619_A_657	NW_004517601.1	scaffold2734	657	TT	GG	GG	INTERGENIC			
SNP_106620_A_716	NW_004517601.1	scaffold2734	716	CC	TT	TT	INTERGENIC			
SNP_106621_A_722	NW_004517601.1	scaffold2734	722	AA	CC	CC	INTERGENIC			
SNP_106622_A_771	NW_004517601.1	scaffold2734	771	TT	CC	CC	INTERGENIC			
SNP_106623_A_1046	NW_004517601.1	scaffold2734	1046	TT	CC	CC	INTERGENIC			
SNP_106624_A_1431	NW_004517601.1	scaffold2734	1431	AA	GG	GG	INTERGENIC			
SNP_106625_A_1478	NW_004517601.1	scaffold2734	1478	AA	CC	CC	INTERGENIC			
SNP_106626_A_1482	NW_004517601.1	scaffold2734	1482	TT	CC	CC	INTERGENIC			
SNP_106627_A_1489	NW_004517601.1	scaffold2734	1489	CC	TT	TT	INTERGENIC			
SNP_106628_A_16792	NW_004517601.1	scaffold2734	16792	CC	GG	GG	INTERGENIC			
SNP_106629_A_16800	NW_004517601.1	scaffold2734	16800	GG	AA	AA	INTERGENIC			
SNP_106630_A_98804	NW_004517601.1	scaffold2734	98804	AA	GG	GG	INTERGENIC			
SNP_106631_A_106719	NW_004517601.1	scaffold2734	106719	GG	AA	AA	INTERGENIC			
SNP_106632_A_3058	NW_004517602.1	scaffold2736	3058	GG	CC	CC	INTERGENIC			
SNP_106633_A_3205	NW_004517602.1	scaffold2736	3205	GG	AA	AA	INTERGENIC			
SNP_106634_A_3336	NW_004517602.1	scaffold2736	3336	AA	GG	GG	INTERGENIC			
SNP_106636_A_3424	NW_004517602.1	scaffold2736	3424	TT	GG	GG	INTERGENIC			
SNP_106638_A_3645	NW_004517602.1	scaffold2736	3645	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106639_A_3659	NW_004517602.1	scaffold2736	3659	AA	GG	GG	INTERGENIC			
SNP_106640_A_3808	NW_004517602.1	scaffold2736	3808	TT	GG	GG	INTERGENIC			
SNP_106641_A_3817	NW_004517602.1	scaffold2736	3817	GG	TT	TT	INTERGENIC			
SNP_106642_A_4146	NW_004517602.1	scaffold2736	4146	GG	AA	AA	INTERGENIC			
SNP_106643_A_4193	NW_004517602.1	scaffold2736	4193	CC	TT	TT	INTERGENIC			
SNP_106644_A_4287	NW_004517602.1	scaffold2736	4287	TT	CC	CC	INTERGENIC			
SNP_106645_A_4298	NW_004517602.1	scaffold2736	4298	CC	TT	TT	INTERGENIC			
SNP_106646_A_4512	NW_004517602.1	scaffold2736	4512	CC	AA	AA	INTERGENIC			
SNP_106647_A_4541	NW_004517602.1	scaffold2736	4541	TT	CC	CC	INTERGENIC			
SNP_106648_A_2654	NW_004517603.1	scaffold2737	2654	CC	AA	AA	INTERGENIC			
SNP_106649_A_3641	NW_004517603.1	scaffold2737	3641	AA	GG	GG	INTERGENIC			
SNP_106650_A_3642	NW_004517603.1	scaffold2737	3642	GG	AA	AA	INTERGENIC			
SNP_106651_A_3685	NW_004517603.1	scaffold2737	3685	TT	GG	GG	INTERGENIC			
SNP_106652_A_3913	NW_004517603.1	scaffold2737	3913	AA	GG	GG	INTERGENIC			
SNP_106653_A_4167	NW_004517603.1	scaffold2737	4167	TT	AA	AA	INTERGENIC			
SNP_106654_A_9085	NW_004517603.1	scaffold2737	9085	TT	AA	AA	INTERGENIC			
SNP_106655_A_9342	NW_004517603.1	scaffold2737	9342	TT	AA	AA	INTERGENIC			
SNP_106656_A_9361	NW_004517603.1	scaffold2737	9361	AA	CC	CC	INTERGENIC			
SNP_106658_A_9544	NW_004517603.1	scaffold2737	9544	GG	AA	AA	INTERGENIC			
SNP_106659_A_9636	NW_004517603.1	scaffold2737	9636	AA	TT	TT	INTERGENIC			
SNP_106660_A_2448	NW_004517604.1	scaffold2738	2448	AA	GG	GG	INTERGENIC			
SNP_106661_A_2463	NW_004517604.1	scaffold2738	2463	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106662_A_3979	NW_004517604.1	scaffold2738	3979	AA	TT	TT	INTERGENIC			
SNP_106664_A_7951	NW_004517604.1	scaffold2738	7951	CC	TT	TT	INTERGENIC			
SNP_106665_A_7963	NW_004517604.1	scaffold2738	7963	TT	CC	CC	INTERGENIC			
SNP_106666_A_9412	NW_004517604.1	scaffold2738	9412	TT	AA	AA	INTERGENIC			
SNP_106667_A_10067	NW_004517604.1	scaffold2738	10067	AA	CC	CC	INTERGENIC			
SNP_106668_A_10126	NW_004517604.1	scaffold2738	10126	GG	AA	AA	INTERGENIC			
SNP_106669_A_10165	NW_004517604.1	scaffold2738	10165	TT	CC	CC	INTERGENIC			
SNP_106670_A_10556	NW_004517604.1	scaffold2738	10556	CC	TT	TT	INTERGENIC			
SNP_106671_A_10598	NW_004517604.1	scaffold2738	10598	GG	CC	CC	INTERGENIC			
SNP_106672_A_10601	NW_004517604.1	scaffold2738	10601	AA	TT	TT	INTERGENIC			
SNP_106673_A_12098	NW_004517604.1	scaffold2738	12098	AA	GG	GG	INTERGENIC			
SNP_106674_A_12228	NW_004517604.1	scaffold2738	12228	GG	AA	AA	INTERGENIC			
SNP_106675_A_12413	NW_004517604.1	scaffold2738	12413	CC	GG	GG	INTERGENIC			
SNP_106677_A_27466	NW_004517604.1	scaffold2738	27466	TT	CC	CC	INTERGENIC			
SNP_106678_A_27485	NW_004517604.1	scaffold2738	27485	GG	TT	TT	INTERGENIC			
SNP_106680_A_28445	NW_004517604.1	scaffold2738	28445	AA	GG	GG	INTERGENIC			
SNP_106681_A_28886	NW_004517604.1	scaffold2738	28886	GG	AA	AA	INTERGENIC			
SNP_106682_A_29181	NW_004517604.1	scaffold2738	29181	GG	AA	AA	INTERGENIC			
SNP_106683_A_29552	NW_004517604.1	scaffold2738	29552	CC	TT	TT	INTERGENIC			
SNP_106684_A_29827	NW_004517604.1	scaffold2738	29827	AA	CC	CC	INTERGENIC			
SNP_106685_A_29989	NW_004517604.1	scaffold2738	29989	GG	AA	AA	INTERGENIC			
SNP_106686_A_30045	NW_004517604.1	scaffold2738	30045	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106687_A_30551	NW_004517604.1	scaffold2738	30551	GG	AA	AA	INTERGENIC			
SNP_106688_A_31627	NW_004517604.1	scaffold2738	31627	TT	GG	GG	INTERGENIC			
SNP_106689_A_31725	NW_004517604.1	scaffold2738	31725	TT	CC	CC	INTERGENIC			
SNP_106690_A_31732	NW_004517604.1	scaffold2738	31732	AA	TT	TT	INTERGENIC			
SNP_106691_A_31914	NW_004517604.1	scaffold2738	31914	AA	TT	TT	INTERGENIC			
SNP_106692_A_32386	NW_004517604.1	scaffold2738	32386	AA	GG	GG	INTERGENIC			
SNP_106693_A_32395	NW_004517604.1	scaffold2738	32395	CC	TT	TT	INTERGENIC			
SNP_106694_A_20223	NW_004517605.1	scaffold2739	20223	GG	CC	CC	INTERGENIC			
SNP_106695_A_20326	NW_004517605.1	scaffold2739	20326	CC	AA	AA	INTERGENIC			
SNP_106696_A_20351	NW_004517605.1	scaffold2739	20351	CC	AA	AA	INTERGENIC			
SNP_106697_A_20504	NW_004517605.1	scaffold2739	20504	TT	AA	AA	INTERGENIC			
SNP_106698_A_20510	NW_004517605.1	scaffold2739	20510	CC	AA	AA	INTERGENIC			
SNP_106699_A_21607	NW_004517605.1	scaffold2739	21607	TT	GG	GG	INTERGENIC			
SNP_106700_A_4609	NW_004517607.1	scaffold2742	4609	GG	AA	AA	INTERGENIC			
SNP_106701_A_17603	NW_004517607.1	scaffold2742	17603	TT	CC	CC	INTERGENIC			
SNP_106702_A_17622	NW_004517607.1	scaffold2742	17622	AA	GG	GG	INTERGENIC			
SNP_106703_A_17779	NW_004517607.1	scaffold2742	17779	TT	CC	CC	INTERGENIC			
SNP_106704_A_1267	NW_004517608.1	scaffold2743	1267	TT	GG	GG	INTERGENIC			
SNP_106705_A_1292	NW_004517608.1	scaffold2743	1292	AA	GG	GG	INTERGENIC			
SNP_106706_A_3677	NW_004517609.1	scaffold2744	3677	GG	AA	AA	INTERGENIC			
SNP_106707_A_3689	NW_004517609.1	scaffold2744	3689	TT	CC	CC	INTERGENIC			
SNP_106708_A_3692	NW_004517609.1	scaffold2744	3692	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106709_A_3713	NW_004517609.1	scaffold2744	3713	CC	TT	TT	INTERGENIC			
SNP_106710_A_10220	NW_004517609.1	scaffold2744	10220	TT	CC	CC	INTERGENIC			
SNP_106711_A_28633	NW_004517609.1	scaffold2744	28633	CC	TT	TT	INTERGENIC			
SNP_106713_A_31117	NW_004517609.1	scaffold2744	31117	GG	AA	AA	INTERGENIC			
SNP_106714_A_31123	NW_004517609.1	scaffold2744	31123	CC	TT	TT	INTERGENIC			
SNP_106715_A_31153	NW_004517609.1	scaffold2744	31153	TT	CC	CC	INTERGENIC			
SNP_106716_A_31163	NW_004517609.1	scaffold2744	31163	TT	CC	CC	INTERGENIC			
SNP_106717_A_31164	NW_004517609.1	scaffold2744	31164	TT	CC	CC	INTERGENIC			
SNP_106718_A_31165	NW_004517609.1	scaffold2744	31165	TT	CC	CC	INTERGENIC			
SNP_106719_A_31177	NW_004517609.1	scaffold2744	31177	AA	GG	GG	INTERGENIC			
SNP_106720_A_31213	NW_004517609.1	scaffold2744	31213	TT	CC	CC	INTERGENIC			
SNP_106721_A_31222	NW_004517609.1	scaffold2744	31222	CC	TT	TT	INTERGENIC			
SNP_106722_A_31240	NW_004517609.1	scaffold2744	31240	AA	TT	TT	INTERGENIC			
SNP_106723_A_31261	NW_004517609.1	scaffold2744	31261	AA	CC	CC	INTERGENIC			
SNP_106724_A_42032	NW_004517609.1	scaffold2744	42032	CC	AA	AA	INTERGENIC			
SNP_106725_A_42039	NW_004517609.1	scaffold2744	42039	CC	AA	AA	INTERGENIC			
SNP_106726_A_42046	NW_004517609.1	scaffold2744	42046	CC	AA	AA	INTERGENIC			
SNP_106727_A_42048	NW_004517609.1	scaffold2744	42048	CC	TT	TT	INTERGENIC			
SNP_106728_A_42312	NW_004517609.1	scaffold2744	42312	CC	AA	AA	INTERGENIC			
SNP_106729_A_47025	NW_004517609.1	scaffold2744	47025	TT	GG	GG	INTERGENIC			
SNP_106730_A_47253	NW_004517609.1	scaffold2744	47253	TT	CC	CC	INTERGENIC			
SNP_106731_A_48390	NW_004517609.1	scaffold2744	48390	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106732_A_48732	NW_004517609.1	scaffold2744	48732	CC	TT	TT	INTERGENIC			
SNP_106733_A_48824	NW_004517609.1	scaffold2744	48824	GG	AA	AA	INTERGENIC			
SNP_106735_A_48866	NW_004517609.1	scaffold2744	48866	CC	TT	TT	INTERGENIC			
SNP_106736_A_49011	NW_004517609.1	scaffold2744	49011	AA	CC	CC	INTERGENIC			
SNP_106737_A_65703	NW_004517609.1	scaffold2744	65703	TT	AA	AA	INTERGENIC			
SNP_106738_A_87655	NW_004517609.1	scaffold2744	87655	TT	CC	CC	INTERGENIC			
SNP_106739_A_87703	NW_004517609.1	scaffold2744	87703	GG	AA	AA	INTERGENIC			
SNP_106740_A_87895	NW_004517609.1	scaffold2744	87895	GG	AA	AA	INTERGENIC			
SNP_106742_A_341	NW_004517611.1	scaffold2746	341	GG	TT	TT	INTERGENIC			
SNP_106743_A_353	NW_004517611.1	scaffold2746	353	CC	GG	GG	INTERGENIC			
SNP_106744_A_544	NW_004517611.1	scaffold2746	544	CC	TT	TT	INTERGENIC			
SNP_106745_A_711	NW_004517613.1	scaffold2748	711	AA	GG	GG	INTERGENIC			
SNP_106746_A_1227	NW_004517613.1	scaffold2748	1227	CC	AA	AA	INTERGENIC			
SNP_106747_A_1346	NW_004517613.1	scaffold2748	1346	TT	AA	AA	INTERGENIC			
SNP_106748_A_1349	NW_004517613.1	scaffold2748	1349	TT	CC	CC	INTERGENIC			
SNP_106749_A_1362	NW_004517613.1	scaffold2748	1362	GG	AA	AA	INTERGENIC			
SNP_106750_A_1367	NW_004517613.1	scaffold2748	1367	AA	TT	TT	INTERGENIC			
SNP_106751_A_1433	NW_004517613.1	scaffold2748	1433	TT	CC	CC	INTERGENIC			
SNP_106752_A_19864	NW_004517613.1	scaffold2748	19864	GG	AA	AA	INTERGENIC			
SNP_106753_A_19884	NW_004517613.1	scaffold2748	19884	GG	CC	CC	INTERGENIC			
SNP_106754_A_19985	NW_004517613.1	scaffold2748	19985	CC	TT	TT	INTERGENIC			
SNP_106755_A_20041	NW_004517613.1	scaffold2748	20041	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106756_A_20057	NW_004517613.1	scaffold2748	20057	TT	GG	GG	INTERGENIC			
SNP_106757_A_20447	NW_004517613.1	scaffold2748	20447	AA	TT	TT	INTERGENIC			
SNP_106758_A_20515	NW_004517613.1	scaffold2748	20515	TT	CC	CC	INTERGENIC			
SNP_106759_A_23219	NW_004517613.1	scaffold2748	23219	AA	TT	TT	INTERGENIC			
SNP_106760_A_23620	NW_004517613.1	scaffold2748	23620	TT	GG	GG	INTERGENIC			
SNP_106761_A_23765	NW_004517613.1	scaffold2748	23765	AA	GG	GG	INTERGENIC			
SNP_106762_A_23959	NW_004517613.1	scaffold2748	23959	GG	AA	AA	INTERGENIC			
SNP_106763_A_24316	NW_004517613.1	scaffold2748	24316	TT	CC	CC	INTERGENIC			
SNP_106764_A_24518	NW_004517613.1	scaffold2748	24518	CC	TT	TT	INTERGENIC			
SNP_106765_A_24534	NW_004517613.1	scaffold2748	24534	GG	AA	AA	INTERGENIC			
SNP_106766_A_24582	NW_004517613.1	scaffold2748	24582	GG	TT	TT	INTERGENIC			
SNP_106767_A_24803	NW_004517613.1	scaffold2748	24803	AA	TT	TT	INTERGENIC			
SNP_106768_A_24982	NW_004517613.1	scaffold2748	24982	TT	GG	GG	INTERGENIC			
SNP_106769_A_25063	NW_004517613.1	scaffold2748	25063	AA	TT	TT	INTERGENIC			
SNP_106770_A_25414	NW_004517613.1	scaffold2748	25414	TT	AA	AA	INTERGENIC			
SNP_106771_A_25418	NW_004517613.1	scaffold2748	25418	AA	TT	TT	INTERGENIC			
SNP_106772_A_27677	NW_004517613.1	scaffold2748	27677	CC	AA	AA	INTERGENIC			
SNP_106774_A_27893	NW_004517613.1	scaffold2748	27893	TT	CC	CC	INTERGENIC			
SNP_106775_A_2233	NW_004517615.1	scaffold2751	2233	TT	GG	GG	INTERGENIC			
SNP_106776_A_2277	NW_004517615.1	scaffold2751	2277	CC	TT	TT	INTERGENIC			
SNP_106777_A_2279	NW_004517615.1	scaffold2751	2279	TT	GG	GG	INTERGENIC			
SNP_106778_A_3777	NW_004517615.1	scaffold2751	3777	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_106779_A_367	NW_004517623.1	scaffold2763	367	TT	CC	CC	INTERGENIC		
SNP_106780_A_808	NW_004517623.1	scaffold2763	808	GG	CC	CC	INTERGENIC		
SNP_106781_A_9470	NW_004517623.1	scaffold2763	9470	TT	CC	CC	INTERGENIC		
SNP_106782_A_9481	NW_004517623.1	scaffold2763	9481	AA	GG	GG	INTERGENIC		
SNP_106784_A_13479	NW_004517623.1	scaffold2763	13479	TT	CC	CC	SYNONYMOUS_CODING	101513047	zinc finger MYM-type protein 1-like
SNP_106785_A_74442	NW_004517623.1	scaffold2763	74442	CC	AA	AA	INTERGENIC		
SNP_106786_A_74909	NW_004517623.1	scaffold2763	74909	AA	GG	GG	INTERGENIC		
SNP_106788_A_140404	NW_004517623.1	scaffold2763	140404	TT	GG	GG	INTERGENIC		
SNP_106789_A_151026	NW_004517623.1	scaffold2763	151026	AA	TT	TT	INTERGENIC		
SNP_106790_A_152832	NW_004517623.1	scaffold2763	152832	GG	TT	TT	INTERGENIC		
SNP_106791_A_154145	NW_004517623.1	scaffold2763	154145	AA	GG	GG	INTERGENIC		
SNP_106792_A_171725	NW_004517623.1	scaffold2763	171725	AA	GG	GG	INTERGENIC		
SNP_106793_A_171747	NW_004517623.1	scaffold2763	171747	AA	GG	GG	INTERGENIC		
SNP_106794_A_171894	NW_004517623.1	scaffold2763	171894	AA	GG	GG	INTERGENIC		
SNP_106795_A_182636	NW_004517623.1	scaffold2763	182636	CC	TT	TT	INTERGENIC		
SNP_106796_A_79	NW_004517625.1	scaffold2766	79	GG	AA	AA	INTERGENIC		
SNP_106797_A_140	NW_004517625.1	scaffold2766	140	AA	CC	CC	INTERGENIC		
SNP_106798_A_405	NW_004517625.1	scaffold2766	405	GG	AA	AA	INTERGENIC		
SNP_106800_A_6041	NW_004517625.1	scaffold2766	6041	AA	CC	CC	INTERGENIC		
SNP_106802_A_13472	NW_004517625.1	scaffold2766	13472	TT	GG	GG	INTERGENIC		
SNP_106803_A_13496	NW_004517625.1	scaffold2766	13496	AA	GG	GG	INTERGENIC		
SNP_106804_A_17970	NW_004517625.1	scaffold2766	17970	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106806_A_1762	NW_004517631.1	scaffold2777	1762	CC	TT	TT	INTERGENIC			
SNP_106807_A_2062	NW_004517631.1	scaffold2777	2062	GG	AA	AA	INTERGENIC			
SNP_106808_A_2390	NW_004517631.1	scaffold2777	2390	GG	AA	AA	INTERGENIC			
SNP_106809_A_2496	NW_004517631.1	scaffold2777	2496	AA	GG	GG	INTERGENIC			
SNP_106810_A_2827	NW_004517631.1	scaffold2777	2827	TT	CC	CC	INTERGENIC			
SNP_106812_A_4487	NW_004517631.1	scaffold2777	4487	AA	TT	TT	INTERGENIC			
SNP_106813_A_5418	NW_004517631.1	scaffold2777	5418	CC	GG	GG	INTERGENIC			
SNP_106814_A_4249	NW_004517632.1	scaffold2778	4249	GG	AA	AA	INTERGENIC			
SNP_106815_A_4348	NW_004517632.1	scaffold2778	4348	TT	GG	GG	INTERGENIC			
SNP_106816_A_5220	NW_004517632.1	scaffold2778	5220	TT	AA	AA	INTERGENIC			
SNP_106817_A_5366	NW_004517632.1	scaffold2778	5366	GG	AA	AA	INTERGENIC			
SNP_106818_A_6674	NW_004517632.1	scaffold2778	6674	TT	GG	GG	INTERGENIC			
SNP_106819_A_6901	NW_004517632.1	scaffold2778	6901	CC	TT	TT	INTERGENIC			
SNP_106820_A_6912	NW_004517632.1	scaffold2778	6912	AA	TT	TT	INTERGENIC			
SNP_106821_A_7036	NW_004517632.1	scaffold2778	7036	GG	CC	CC	INTERGENIC			
SNP_106822_A_7239	NW_004517632.1	scaffold2778	7239	TT	CC	CC	INTERGENIC			
SNP_106823_A_7252	NW_004517632.1	scaffold2778	7252	TT	GG	GG	INTERGENIC			
SNP_106824_A_7349	NW_004517632.1	scaffold2778	7349	GG	AA	AA	INTERGENIC			
SNP_106825_A_7732	NW_004517632.1	scaffold2778	7732	TT	CC	CC	INTERGENIC			
SNP_106826_A_11302	NW_004517632.1	scaffold2778	11302	CC	AA	AA	INTERGENIC			
SNP_106827_A_11367	NW_004517632.1	scaffold2778	11367	TT	AA	AA	INTERGENIC			
SNP_106828_A_12153	NW_004517632.1	scaffold2778	12153	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106829_A_12386	NW_004517632.1	scaffold2778	12386	AA	CC	CC	INTERGENIC			
SNP_106830_A_12526	NW_004517632.1	scaffold2778	12526	CC	TT	TT	INTERGENIC			
SNP_106831_A_12556	NW_004517632.1	scaffold2778	12556	AA	GG	GG	INTERGENIC			
SNP_106832_A_12587	NW_004517632.1	scaffold2778	12587	GG	AA	AA	INTERGENIC			
SNP_106833_A_12656	NW_004517632.1	scaffold2778	12656	AA	GG	GG	INTERGENIC			
SNP_106834_A_1909	NW_004517633.1	scaffold2779	1909	GG	AA	AA	INTERGENIC			
SNP_106835_A_1957	NW_004517633.1	scaffold2779	1957	TT	AA	AA	INTERGENIC			
SNP_106836_A_1986	NW_004517633.1	scaffold2779	1986	AA	TT	TT	INTERGENIC			
SNP_106837_A_2408	NW_004517633.1	scaffold2779	2408	AA	GG	GG	INTERGENIC			
SNP_106838_A_2440	NW_004517633.1	scaffold2779	2440	AA	TT	TT	INTERGENIC			
SNP_106839_A_6273	NW_004517633.1	scaffold2779	6273	GG	AA	AA	INTERGENIC			
SNP_106840_A_6474	NW_004517633.1	scaffold2779	6474	TT	GG	GG	INTERGENIC			
SNP_106841_A_6480	NW_004517633.1	scaffold2779	6480	GG	AA	AA	INTERGENIC			
SNP_106842_A_6622	NW_004517633.1	scaffold2779	6622	TT	AA	AA	INTERGENIC			
SNP_106843_A_9410	NW_004517633.1	scaffold2779	9410	TT	CC	CC	INTERGENIC			
SNP_106844_A_11285	NW_004517633.1	scaffold2779	11285	GG	AA	AA	INTERGENIC			
SNP_106845_A_13126	NW_004517633.1	scaffold2779	13126	TT	CC	CC	INTERGENIC			
SNP_106846_A_14380	NW_004517633.1	scaffold2779	14380	GG	TT	TT	INTERGENIC			
SNP_106847_A_16633	NW_004517633.1	scaffold2779	16633	GG	CC	CC	INTERGENIC			
SNP_106848_A_16680	NW_004517633.1	scaffold2779	16680	TT	GG	GG	INTERGENIC			
SNP_106849_A_17725	NW_004517633.1	scaffold2779	17725	TT	CC	CC	INTERGENIC			
SNP_106850_A_17761	NW_004517633.1	scaffold2779	17761	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106851_A_17823	NW_004517633.1	scaffold2779	17823	TT	CC	CC	INTERGENIC			
SNP_106852_A_17835	NW_004517633.1	scaffold2779	17835	TT	CC	CC	INTERGENIC			
SNP_106853_A_17983	NW_004517633.1	scaffold2779	17983	GG	TT	TT	INTERGENIC			
SNP_106854_A_25569	NW_004517633.1	scaffold2779	25569	TT	AA	AA	INTERGENIC			
SNP_106855_A_715	NW_004517635.1	scaffold2782	715	CC	TT	TT	INTERGENIC			
SNP_106856_A_921	NW_004517635.1	scaffold2782	921	CC	TT	TT	INTERGENIC			
SNP_106857_A_1014	NW_004517635.1	scaffold2782	1014	CC	AA	AA	INTERGENIC			
SNP_106858_A_4342	NW_004517635.1	scaffold2782	4342	CC	TT	TT	INTERGENIC			
SNP_106859_A_4719	NW_004517635.1	scaffold2782	4719	CC	GG	GG	INTERGENIC			
SNP_106860_A_6158	NW_004517635.1	scaffold2782	6158	AA	GG	GG	INTERGENIC			
SNP_106861_A_6204	NW_004517635.1	scaffold2782	6204	CC	TT	TT	INTERGENIC			
SNP_106863_A_7273	NW_004517635.1	scaffold2782	7273	GG	CC	CC	INTERGENIC			
SNP_106864_A_7380	NW_004517635.1	scaffold2782	7380	CC	GG	GG	INTERGENIC			
SNP_106865_A_7392	NW_004517635.1	scaffold2782	7392	CC	GG	GG	INTERGENIC			
SNP_106866_A_8852	NW_004517635.1	scaffold2782	8852	TT	GG	GG	INTERGENIC			
SNP_106867_A_8866	NW_004517635.1	scaffold2782	8866	CC	TT	TT	INTERGENIC			
SNP_106868_A_8899	NW_004517635.1	scaffold2782	8899	CC	TT	TT	INTERGENIC			
SNP_106869_A_8993	NW_004517635.1	scaffold2782	8993	TT	GG	GG	INTERGENIC			
SNP_106870_A_10892	NW_004517635.1	scaffold2782	10892	AA	GG	GG	INTERGENIC			
SNP_106871_A_26904	NW_004517635.1	scaffold2782	26904	CC	AA	AA	INTERGENIC			
SNP_106872_A_26910	NW_004517635.1	scaffold2782	26910	TT	AA	AA	INTERGENIC			
SNP_106873_A_26939	NW_004517635.1	scaffold2782	26939	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106875_A_39946	NW_004517635.1	scaffold2782	39946	TT	GG	GG	INTERGENIC			
SNP_106876_A_40001	NW_004517635.1	scaffold2782	40001	CC	TT	TT	INTERGENIC			
SNP_106877_A_40070	NW_004517635.1	scaffold2782	40070	GG	TT	TT	INTERGENIC			
SNP_106878_A_40326	NW_004517635.1	scaffold2782	40326	GG	AA	AA	INTERGENIC			
SNP_106879_A_41980	NW_004517635.1	scaffold2782	41980	AA	TT	TT	INTERGENIC			
SNP_106880_A_41985	NW_004517635.1	scaffold2782	41985	TT	AA	AA	INTERGENIC			
SNP_106881_A_42756	NW_004517635.1	scaffold2782	42756	CC	TT	TT	INTERGENIC			
SNP_106882_A_51010	NW_004517635.1	scaffold2782	51010	TT	AA	AA	INTERGENIC			
SNP_106883_A_51228	NW_004517635.1	scaffold2782	51228	GG	AA	AA	INTERGENIC			
SNP_106884_A_60330	NW_004517635.1	scaffold2782	60330	CC	AA	AA	INTERGENIC			
SNP_106885_A_60366	NW_004517635.1	scaffold2782	60366	GG	AA	AA	INTERGENIC			
SNP_106886_A_60446	NW_004517635.1	scaffold2782	60446	TT	AA	AA	INTERGENIC			
SNP_106887_A_60447	NW_004517635.1	scaffold2782	60447	AA	TT	TT	INTERGENIC			
SNP_106888_A_60564	NW_004517635.1	scaffold2782	60564	CC	TT	TT	INTERGENIC			
SNP_106889_A_60579	NW_004517635.1	scaffold2782	60579	AA	CC	CC	INTERGENIC			
SNP_106890_A_60606	NW_004517635.1	scaffold2782	60606	GG	AA	AA	INTERGENIC			
SNP_106891_A_67839	NW_004517635.1	scaffold2782	67839	TT	AA	AA	INTERGENIC			
SNP_106892_A_80321	NW_004517635.1	scaffold2782	80321	CC	TT	TT	INTERGENIC			
SNP_106893_A_80337	NW_004517635.1	scaffold2782	80337	TT	GG	GG	INTERGENIC			
SNP_106894_A_80414	NW_004517635.1	scaffold2782	80414	TT	GG	GG	INTERGENIC			
SNP_106895_A_80580	NW_004517635.1	scaffold2782	80580	CC	TT	TT	INTERGENIC			
SNP_106896_A_80988	NW_004517635.1	scaffold2782	80988	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106897_A_81034	NW_004517635.1	scaffold2782	81034	CC	TT	TT	INTERGENIC			
SNP_106898_A_86312	NW_004517635.1	scaffold2782	86312	GG	CC	CC	INTERGENIC			
SNP_106899_A_86348	NW_004517635.1	scaffold2782	86348	TT	AA	AA	INTERGENIC			
SNP_106900_A_86603	NW_004517635.1	scaffold2782	86603	AA	GG	GG	INTERGENIC			
SNP_106901_A_86610	NW_004517635.1	scaffold2782	86610	TT	CC	CC	INTERGENIC			
SNP_106902_A_86742	NW_004517635.1	scaffold2782	86742	GG	AA	AA	INTERGENIC			
SNP_106903_A_86946	NW_004517635.1	scaffold2782	86946	GG	AA	AA	INTERGENIC			
SNP_106904_A_87065	NW_004517635.1	scaffold2782	87065	TT	CC	CC	INTERGENIC			
SNP_106905_A_89762	NW_004517635.1	scaffold2782	89762	GG	AA	AA	INTERGENIC			
SNP_106906_A_105935	NW_004517635.1	scaffold2782	105935	AA	GG	GG	INTERGENIC			
SNP_106907_A_106025	NW_004517635.1	scaffold2782	106025	AA	TT	TT	INTERGENIC			
SNP_106908_A_108902	NW_004517635.1	scaffold2782	108902	GG	CC	CC	INTERGENIC			
SNP_106909_A_109199	NW_004517635.1	scaffold2782	109199	TT	CC	CC	INTERGENIC			
SNP_106910_A_109306	NW_004517635.1	scaffold2782	109306	AA	CC	CC	INTERGENIC			
SNP_106911_A_109421	NW_004517635.1	scaffold2782	109421	GG	AA	AA	INTERGENIC			
SNP_106912_A_109479	NW_004517635.1	scaffold2782	109479	TT	GG	GG	INTERGENIC			
SNP_106913_A_109552	NW_004517635.1	scaffold2782	109552	CC	GG	GG	INTERGENIC			
SNP_106914_A_109667	NW_004517635.1	scaffold2782	109667	GG	AA	AA	INTERGENIC			
SNP_106915_A_109693	NW_004517635.1	scaffold2782	109693	AA	CC	CC	INTERGENIC			
SNP_106916_A_109740	NW_004517635.1	scaffold2782	109740	CC	AA	AA	INTERGENIC			
SNP_106917_A_109772	NW_004517635.1	scaffold2782	109772	TT	CC	CC	INTERGENIC			
SNP_106918_A_109893	NW_004517635.1	scaffold2782	109893	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106919_A_109908	NW_004517635.1	scaffold2782	109908	TT	CC	CC	INTERGENIC			
SNP_106920_A_109920	NW_004517635.1	scaffold2782	109920	AA	TT	TT	INTERGENIC			
SNP_106921_A_109950	NW_004517635.1	scaffold2782	109950	CC	AA	AA	INTERGENIC			
SNP_106922_A_111792	NW_004517635.1	scaffold2782	111792	CC	AA	AA	INTERGENIC			
SNP_106923_A_111796	NW_004517635.1	scaffold2782	111796	AA	CC	CC	INTERGENIC			
SNP_106924_A_111846	NW_004517635.1	scaffold2782	111846	AA	GG	GG	INTERGENIC			
SNP_106925_A_111852	NW_004517635.1	scaffold2782	111852	TT	CC	CC	INTERGENIC			
SNP_106926_A_111868	NW_004517635.1	scaffold2782	111868	GG	TT	TT	INTERGENIC			
SNP_106927_A_111869	NW_004517635.1	scaffold2782	111869	AA	TT	TT	INTERGENIC			
SNP_106928_A_111903	NW_004517635.1	scaffold2782	111903	TT	GG	GG	INTERGENIC			
SNP_106929_A_112033	NW_004517635.1	scaffold2782	112033	AA	CC	CC	INTERGENIC			
SNP_106930_A_112034	NW_004517635.1	scaffold2782	112034	GG	AA	AA	INTERGENIC			
SNP_106931_A_112147	NW_004517635.1	scaffold2782	112147	GG	TT	TT	INTERGENIC			
SNP_106932_A_112954	NW_004517635.1	scaffold2782	112954	GG	AA	AA	INTERGENIC			
SNP_106933_A_112966	NW_004517635.1	scaffold2782	112966	AA	GG	GG	INTERGENIC			
SNP_106934_A_113031	NW_004517635.1	scaffold2782	113031	AA	TT	TT	INTERGENIC			
SNP_106935_A_113242	NW_004517635.1	scaffold2782	113242	TT	CC	CC	INTERGENIC			
SNP_106936_A_113343	NW_004517635.1	scaffold2782	113343	AA	TT	TT	INTERGENIC			
SNP_106937_A_2447	NW_004517637.1	scaffold2784	2447	TT	AA	AA	INTERGENIC			
SNP_106938_A_2697	NW_004517637.1	scaffold2784	2697	CC	GG	GG	INTERGENIC			
SNP_106939_A_2723	NW_004517637.1	scaffold2784	2723	TT	GG	GG	INTERGENIC			
SNP_106940_A_2728	NW_004517637.1	scaffold2784	2728	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106941_A_2800	NW_004517637.1	scaffold2784	2800	GG	AA	AA	INTERGENIC			
SNP_106942_A_3741	NW_004517637.1	scaffold2784	3741	AA	TT	TT	INTERGENIC			
SNP_106943_A_3754	NW_004517637.1	scaffold2784	3754	CC	AA	AA	INTERGENIC			
SNP_106944_A_13954	NW_004517637.1	scaffold2784	13954	GG	CC	CC	INTERGENIC			
SNP_106945_A_14216	NW_004517637.1	scaffold2784	14216	CC	TT	TT	INTERGENIC			
SNP_106946_A_14275	NW_004517637.1	scaffold2784	14275	AA	CC	CC	INTERGENIC			
SNP_106947_A_14334	NW_004517637.1	scaffold2784	14334	AA	GG	GG	INTERGENIC			
SNP_106948_A_14370	NW_004517637.1	scaffold2784	14370	AA	GG	GG	INTERGENIC			
SNP_106949_A_14386	NW_004517637.1	scaffold2784	14386	AA	TT	TT	INTERGENIC			
SNP_106950_A_15868	NW_004517637.1	scaffold2784	15868	AA	GG	GG	INTERGENIC			
SNP_106951_A_11044	NW_004517641.1	scaffold2790	11044	GG	CC	CC	INTERGENIC			
SNP_106952_A_2729	NW_004517642.1	scaffold2792	2729	TT	CC	CC	INTERGENIC			
SNP_106953_A_2902	NW_004517642.1	scaffold2792	2902	AA	TT	TT	INTERGENIC			
SNP_106954_A_2903	NW_004517642.1	scaffold2792	2903	AA	CC	CC	INTERGENIC			
SNP_106955_A_2943	NW_004517642.1	scaffold2792	2943	GG	AA	AA	INTERGENIC			
SNP_106956_A_7770	NW_004517642.1	scaffold2792	7770	GG	TT	TT	INTERGENIC			
SNP_106957_A_12812	NW_004517642.1	scaffold2792	12812	TT	GG	GG	INTERGENIC			
SNP_106958_A_13161	NW_004517642.1	scaffold2792	13161	CC	TT	TT	INTERGENIC			
SNP_106959_A_13700	NW_004517642.1	scaffold2792	13700	TT	CC	CC	INTERGENIC			
SNP_106960_A_13901	NW_004517642.1	scaffold2792	13901	AA	GG	GG	INTERGENIC			
SNP_106961_A_13975	NW_004517642.1	scaffold2792	13975	AA	GG	GG	INTERGENIC			
SNP_106962_A_14020	NW_004517642.1	scaffold2792	14020	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106963_A_14070	NW_004517642.1	scaffold2792	14070	TT	GG	GG	INTERGENIC			
SNP_106964_A_14148	NW_004517642.1	scaffold2792	14148	TT	CC	CC	INTERGENIC			
SNP_106965_A_14157	NW_004517642.1	scaffold2792	14157	AA	TT	TT	INTERGENIC			
SNP_106967_A_14427	NW_004517642.1	scaffold2792	14427	TT	AA	AA	INTERGENIC			
SNP_106968_A_14788	NW_004517642.1	scaffold2792	14788	GG	CC	CC	INTERGENIC			
SNP_106969_A_1847	NW_004517645.1	scaffold2795	1847	TT	CC	CC	INTERGENIC			
SNP_106970_A_1869	NW_004517645.1	scaffold2795	1869	TT	GG	GG	INTERGENIC			
SNP_106971_A_2261	NW_004517645.1	scaffold2795	2261	AA	GG	GG	INTERGENIC			
SNP_106972_A_2595	NW_004517645.1	scaffold2795	2595	TT	CC	CC	INTERGENIC			
SNP_106973_A_2646	NW_004517645.1	scaffold2795	2646	AA	GG	GG	INTERGENIC			
SNP_106974_A_2882	NW_004517645.1	scaffold2795	2882	GG	CC	CC	INTERGENIC			
SNP_106975_A_2912	NW_004517645.1	scaffold2795	2912	TT	CC	CC	INTERGENIC			
SNP_106976_A_3071	NW_004517645.1	scaffold2795	3071	CC	GG	GG	INTERGENIC			
SNP_106977_A_3072	NW_004517645.1	scaffold2795	3072	TT	AA	AA	INTERGENIC			
SNP_106978_A_3085	NW_004517645.1	scaffold2795	3085	CC	GG	GG	INTERGENIC			
SNP_106979_A_3087	NW_004517645.1	scaffold2795	3087	CC	AA	AA	INTERGENIC			
SNP_106980_A_6472	NW_004517645.1	scaffold2795	6472	AA	CC	CC	INTERGENIC			
SNP_106981_A_791	NW_004517648.1	scaffold2799	791	CC	AA	AA	INTERGENIC			
SNP_106982_A_800	NW_004517648.1	scaffold2799	800	GG	CC	CC	INTERGENIC			
SNP_106983_A_876	NW_004517648.1	scaffold2799	876	CC	GG	GG	INTERGENIC			
SNP_106984_A_900	NW_004517648.1	scaffold2799	900	CC	TT	TT	INTERGENIC			
SNP_106985_A_1059	NW_004517648.1	scaffold2799	1059	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_106986_A_1102	NW_004517648.1	scaffold2799	1102	AA	GG	GG	INTERGENIC			
SNP_106987_A_1123	NW_004517648.1	scaffold2799	1123	TT	AA	AA	INTERGENIC			
SNP_106988_A_19681	NW_004517648.1	scaffold2799	19681	CC	TT	TT	INTERGENIC			
SNP_106989_A_34729	NW_004517648.1	scaffold2799	34729	AA	GG	GG	INTERGENIC			
SNP_106990_A_34736	NW_004517648.1	scaffold2799	34736	CC	TT	TT	INTERGENIC			
SNP_106991_A_45911	NW_004517648.1	scaffold2799	45911	AA	GG	GG	INTERGENIC			
SNP_106992_A_45912	NW_004517648.1	scaffold2799	45912	AA	GG	GG	INTERGENIC			
SNP_106993_A_45948	NW_004517648.1	scaffold2799	45948	CC	AA	AA	INTERGENIC			
SNP_106994_A_46020	NW_004517648.1	scaffold2799	46020	AA	GG	GG	INTERGENIC			
SNP_106995_A_46055	NW_004517648.1	scaffold2799	46055	GG	AA	AA	INTERGENIC			
SNP_106996_A_46062	NW_004517648.1	scaffold2799	46062	AA	GG	GG	INTERGENIC			
SNP_106997_A_46077	NW_004517648.1	scaffold2799	46077	AA	GG	GG	INTERGENIC			
SNP_106998_A_46086	NW_004517648.1	scaffold2799	46086	TT	CC	CC	INTERGENIC			
SNP_106999_A_46098	NW_004517648.1	scaffold2799	46098	TT	CC	CC	INTERGENIC			
SNP_107000_A_64	NW_004517650.1	scaffold2801	64	AA	CC	CC	INTERGENIC			
SNP_107001_A_81	NW_004517650.1	scaffold2801	81	TT	CC	CC	INTERGENIC			
SNP_107002_A_214	NW_004517652.1	scaffold2803	214	AA	GG	GG	INTERGENIC			
SNP_107003_A_693	NW_004517656.1	scaffold2810	693	AA	TT	TT	INTERGENIC			
SNP_107004_A_12240	NW_004517657.1	scaffold2812	12240	GG	AA	AA	INTERGENIC			
SNP_107005_A_16123	NW_004517657.1	scaffold2812	16123	TT	CC	CC	INTERGENIC			
SNP_107006_A_16896	NW_004517657.1	scaffold2812	16896	AA	TT	TT	INTERGENIC			
SNP_107007_A_17100	NW_004517657.1	scaffold2812	17100	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107008_A_17492	NW_004517657.1	scaffold2812	17492	GG	CC	CC	DRR	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107009_A_18098	NW_004517657.1	scaffold2812	18098	AA	TT	TT	DRR	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107010_A_18408	NW_004517657.1	scaffold2812	18408	TT	CC	CC	DRR	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107011_A_19128	NW_004517657.1	scaffold2812	19128	CC	TT	TT	INTRON	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107012_A_19448	NW_004517657.1	scaffold2812	19448	TT	AA	AA	INTRON	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107014_A_21202	NW_004517657.1	scaffold2812	21202	AA	TT	TT	URR	101489619	G-type lectin S-receptor-like serine/threonine-protein kinase At1g11300
SNP_107015_A_23769	NW_004517657.1	scaffold2812	23769	CC	AA	AA	URR	101515659	Unknown function
SNP_107016_A_25417	NW_004517657.1	scaffold2812	25417	CC	AA	AA	URR	101515659	Unknown function
SNP_107017_A_27981	NW_004517657.1	scaffold2812	27981	AA	GG	GG	INTERGENIC		
SNP_107018_A_37919	NW_004517657.1	scaffold2812	37919	AA	TT	TT	INTERGENIC		
SNP_107019_A_42948	NW_004517657.1	scaffold2812	42948	TT	CC	CC	INTERGENIC		
SNP_107020_A_60183	NW_004517657.1	scaffold2812	60183	CC	TT	TT	INTERGENIC		
SNP_107021_A_60185	NW_004517657.1	scaffold2812	60185	AA	GG	GG	INTERGENIC		
SNP_107022_A_60190	NW_004517657.1	scaffold2812	60190	AA	GG	GG	INTERGENIC		
SNP_107023_A_60636	NW_004517657.1	scaffold2812	60636	CC	TT	TT	INTERGENIC		
SNP_107024_A_60643	NW_004517657.1	scaffold2812	60643	GG	AA	AA	INTERGENIC		
SNP_107025_A_60683	NW_004517657.1	scaffold2812	60683	AA	GG	GG	INTERGENIC		
SNP_107026_A_95955	NW_004517657.1	scaffold2812	95955	AA	TT	TT	INTERGENIC		
SNP_107027_A_2877	NW_004517658.1	scaffold2813	2877	CC	TT	TT	INTERGENIC		
SNP_107028_A_3773	NW_004517658.1	scaffold2813	3773	GG	AA	AA	INTERGENIC		
SNP_107029_A_4417	NW_004517658.1	scaffold2813	4417	GG	AA	AA	INTERGENIC		
SNP_107030_A_4667	NW_004517658.1	scaffold2813	4667	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107031_A_4747	NW_004517658.1	scaffold2813	4747	GG	TT	TT	INTERGENIC			
SNP_107032_A_1148	NW_004517659.1	scaffold2815	1148	AA	TT	TT	INTERGENIC			
SNP_107033_A_1162	NW_004517659.1	scaffold2815	1162	GG	AA	AA	INTERGENIC			
SNP_107034_A_1167	NW_004517659.1	scaffold2815	1167	CC	TT	TT	INTERGENIC			
SNP_107035_A_28525	NW_004517659.1	scaffold2815	28525	AA	TT	TT	INTERGENIC			
SNP_107036_A_29211	NW_004517659.1	scaffold2815	29211	GG	TT	TT	INTERGENIC			
SNP_107037_A_42894	NW_004517659.1	scaffold2815	42894	GG	CC	CC	SYNONYMOUS_CODING	101490918	Unknown function	
SNP_107038_A_70895	NW_004517659.1	scaffold2815	70895	TT	CC	CC	INTERGENIC			
SNP_107039_A_70986	NW_004517659.1	scaffold2815	70986	TT	AA	AA	INTERGENIC			
SNP_107040_A_71066	NW_004517659.1	scaffold2815	71066	TT	CC	CC	INTERGENIC			
SNP_107041_A_71085	NW_004517659.1	scaffold2815	71085	AA	CC	CC	INTERGENIC			
SNP_107042_A_71157	NW_004517659.1	scaffold2815	71157	CC	TT	TT	INTERGENIC			
SNP_107043_A_71411	NW_004517659.1	scaffold2815	71411	TT	CC	CC	INTERGENIC			
SNP_107044_A_71439	NW_004517659.1	scaffold2815	71439	CC	TT	TT	INTERGENIC			
SNP_107046_A_71459	NW_004517659.1	scaffold2815	71459	CC	TT	TT	INTERGENIC			
SNP_107047_A_71533	NW_004517659.1	scaffold2815	71533	TT	CC	CC	INTERGENIC			
SNP_107048_A_71846	NW_004517659.1	scaffold2815	71846	CC	TT	TT	INTERGENIC			
SNP_107049_A_83193	NW_004517659.1	scaffold2815	83193	GG	AA	AA	INTERGENIC			
SNP_107050_A_855	NW_004517661.1	scaffold2817	855	AA	GG	GG	INTERGENIC			
SNP_107051_A_882	NW_004517661.1	scaffold2817	882	GG	AA	AA	INTERGENIC			
SNP_107052_A_895	NW_004517661.1	scaffold2817	895	AA	GG	GG	INTERGENIC			
SNP_107053_A_926	NW_004517661.1	scaffold2817	926	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107054_A_1173	NW_004517662.1	scaffold2818	1173	TT	GG	GG	INTERGENIC			
SNP_107055_A_12314	NW_004517663.1	scaffold2819	12314	AA	GG	GG	INTERGENIC			
SNP_107056_A_12519	NW_004517663.1	scaffold2819	12519	AA	CC	CC	INTERGENIC			
SNP_107057_A_12551	NW_004517663.1	scaffold2819	12551	TT	AA	AA	INTERGENIC			
SNP_107058_A_12615	NW_004517663.1	scaffold2819	12615	CC	AA	AA	INTERGENIC			
SNP_107059_A_12680	NW_004517663.1	scaffold2819	12680	AA	TT	TT	INTERGENIC			
SNP_107060_A_12689	NW_004517663.1	scaffold2819	12689	TT	CC	CC	INTERGENIC			
SNP_107061_A_12825	NW_004517663.1	scaffold2819	12825	AA	GG	GG	INTERGENIC			
SNP_107062_A_12833	NW_004517663.1	scaffold2819	12833	TT	CC	CC	INTERGENIC			
SNP_107063_A_12935	NW_004517663.1	scaffold2819	12935	TT	CC	CC	INTERGENIC			
SNP_107064_A_13008	NW_004517663.1	scaffold2819	13008	GG	AA	AA	INTERGENIC			
SNP_107065_A_13026	NW_004517663.1	scaffold2819	13026	AA	GG	GG	INTERGENIC			
SNP_107066_A_13082	NW_004517663.1	scaffold2819	13082	AA	GG	GG	INTERGENIC			
SNP_107067_A_13085	NW_004517663.1	scaffold2819	13085	AA	TT	TT	INTERGENIC			
SNP_107068_A_13098	NW_004517663.1	scaffold2819	13098	CC	TT	TT	INTERGENIC			
SNP_107069_A_13126	NW_004517663.1	scaffold2819	13126	TT	CC	CC	INTERGENIC			
SNP_107070_A_13437	NW_004517663.1	scaffold2819	13437	CC	TT	TT	INTERGENIC			
SNP_107071_A_18468	NW_004517663.1	scaffold2819	18468	GG	CC	CC	INTERGENIC			
SNP_107072_A_18505	NW_004517663.1	scaffold2819	18505	AA	GG	GG	INTERGENIC			
SNP_107073_A_18836	NW_004517663.1	scaffold2819	18836	AA	GG	GG	INTERGENIC			
SNP_107074_A_18917	NW_004517663.1	scaffold2819	18917	TT	CC	CC	INTERGENIC			
SNP_107075_A_18919	NW_004517663.1	scaffold2819	18919	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107076_A_3309	NW_004517666.1	scaffold2823	3309	GG	AA	AA	INTERGENIC			
SNP_107077_A_6350	NW_004517666.1	scaffold2823	6350	TT	GG	GG	INTERGENIC			
SNP_107078_A_6617	NW_004517666.1	scaffold2823	6617	CC	TT	TT	INTERGENIC			
SNP_107079_A_7884	NW_004517666.1	scaffold2823	7884	AA	GG	GG	INTERGENIC			
SNP_107080_A_4702	NW_004517667.1	scaffold2824	4702	TT	AA	AA	INTERGENIC			
SNP_107081_A_4790	NW_004517667.1	scaffold2824	4790	TT	AA	AA	INTERGENIC			
SNP_107082_A_4897	NW_004517667.1	scaffold2824	4897	GG	AA	AA	INTERGENIC			
SNP_107083_A_5689	NW_004517667.1	scaffold2824	5689	TT	CC	CC	INTERGENIC			
SNP_107084_A_5779	NW_004517667.1	scaffold2824	5779	CC	AA	AA	INTERGENIC			
SNP_107085_A_5793	NW_004517667.1	scaffold2824	5793	TT	CC	CC	INTERGENIC			
SNP_107086_A_5805	NW_004517667.1	scaffold2824	5805	AA	GG	GG	INTERGENIC			
SNP_107087_A_8982	NW_004517667.1	scaffold2824	8982	GG	AA	AA	INTERGENIC			
SNP_107088_A_3683	NW_004517670.1	scaffold2829	3683	AA	CC	CC	INTERGENIC			
SNP_107089_A_349	NW_004517672.1	scaffold2833	349	GG	AA	AA	INTERGENIC			
SNP_107090_A_735	NW_004517672.1	scaffold2833	735	GG	AA	AA	INTERGENIC			
SNP_107091_A_736	NW_004517672.1	scaffold2833	736	AA	GG	GG	INTERGENIC			
SNP_107092_A_749	NW_004517672.1	scaffold2833	749	CC	AA	AA	INTERGENIC			
SNP_107093_A_2676	NW_004517674.1	scaffold2835	2676	CC	TT	TT	INTERGENIC			
SNP_107094_A_978	NW_004517676.1	scaffold2837	978	TT	CC	CC	URR	101491560	Unknown function	
SNP_107095_A_980	NW_004517676.1	scaffold2837	980	GG	TT	TT	URR	101491560	Unknown function	
SNP_107096_A_27955	NW_004517676.1	scaffold2837	27955	AA	CC	CC	INTERGENIC			
SNP_107097_A_61839	NW_004517676.1	scaffold2837	61839	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107098_A_62397	NW_004517676.1	scaffold2837	62397	CC	TT	TT	INTERGENIC			
SNP_107099_A_62410	NW_004517676.1	scaffold2837	62410	AA	GG	GG	INTERGENIC			
SNP_107100_A_444	NW_004517681.1	scaffold2842	444	CC	TT	TT	INTERGENIC			
SNP_107101_A_445	NW_004517681.1	scaffold2842	445	AA	CC	CC	INTERGENIC			
SNP_107102_A_488	NW_004517681.1	scaffold2842	488	TT	AA	AA	INTERGENIC			
SNP_107103_A_716	NW_004517681.1	scaffold2842	716	CC	AA	AA	INTERGENIC			
SNP_107104_A_914	NW_004517681.1	scaffold2842	914	CC	AA	AA	INTERGENIC			
SNP_107105_A_981	NW_004517681.1	scaffold2842	981	GG	TT	TT	INTERGENIC			
SNP_107106_A_1019	NW_004517681.1	scaffold2842	1019	AA	GG	GG	INTERGENIC			
SNP_107107_A_26860	NW_004517683.1	scaffold2845	26860	GG	AA	AA	INTERGENIC			
SNP_107108_A_26864	NW_004517683.1	scaffold2845	26864	CC	AA	AA	INTERGENIC			
SNP_107109_A_26897	NW_004517683.1	scaffold2845	26897	CC	TT	TT	INTERGENIC			
SNP_107110_A_26898	NW_004517683.1	scaffold2845	26898	AA	GG	GG	INTERGENIC			
SNP_107111_A_26908	NW_004517683.1	scaffold2845	26908	CC	GG	GG	INTERGENIC			
SNP_107112_A_26951	NW_004517683.1	scaffold2845	26951	CC	TT	TT	INTERGENIC			
SNP_107114_A_2822	NW_004517685.1	scaffold2847	2822	CC	TT	TT	INTERGENIC			
SNP_107116_A_2505	NW_004517686.1	scaffold2848	2505	AA	GG	GG	INTERGENIC			
SNP_107117_A_12246	NW_004517686.1	scaffold2848	12246	AA	GG	GG	INTERGENIC			
SNP_107118_A_34350	NW_004517686.1	scaffold2848	34350	AA	GG	GG	INTERGENIC			
SNP_107119_A_40331	NW_004517686.1	scaffold2848	40331	CC	TT	TT	INTERGENIC			
SNP_107120_A_44742	NW_004517686.1	scaffold2848	44742	CC	TT	TT	INTERGENIC			
SNP_107121_A_54164	NW_004517686.1	scaffold2848	54164	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107122_A_27463	NW_004517687.1	scaffold2850	27463	TT	GG	GG	DRR	101494062	uncharacterized LOC101494062
SNP_107123_A_27844	NW_004517687.1	scaffold2850	27844	AA	GG	GG	DRR	101494062	uncharacterized LOC101494062
SNP_107124_A_28114	NW_004517687.1	scaffold2850	28114	AA	TT	TT	DRR	101494062	uncharacterized LOC101494062
SNP_107125_A_28149	NW_004517687.1	scaffold2850	28149	AA	TT	TT	DRR	101494062	uncharacterized LOC101494062
SNP_107126_A_657	NW_004517688.1	scaffold2851	657	GG	AA	AA	INTERGENIC		
SNP_107127_A_1431	NW_004517688.1	scaffold2851	1431	CC	TT	TT	INTERGENIC		
SNP_107128_A_1433	NW_004517688.1	scaffold2851	1433	AA	GG	GG	INTERGENIC		
SNP_107129_A_1752	NW_004517688.1	scaffold2851	1752	TT	GG	GG	INTERGENIC		
SNP_107130_A_3672	NW_004517689.1	scaffold2852	3672	CC	AA	AA	INTERGENIC		
SNP_107131_A_3673	NW_004517689.1	scaffold2852	3673	CC	TT	TT	INTERGENIC		
SNP_107132_A_3732	NW_004517689.1	scaffold2852	3732	CC	TT	TT	INTERGENIC		
SNP_107133_A_3739	NW_004517689.1	scaffold2852	3739	GG	AA	AA	INTERGENIC		
SNP_107134_A_4094	NW_004517689.1	scaffold2852	4094	CC	AA	AA	INTERGENIC		
SNP_107135_A_4178	NW_004517689.1	scaffold2852	4178	CC	TT	TT	INTERGENIC		
SNP_107136_A_387	NW_004517690.1	scaffold2853	387	CC	GG	GG	INTERGENIC		
SNP_107137_A_6636	NW_004517690.1	scaffold2853	6636	GG	AA	AA	INTERGENIC		
SNP_107138_A_12052	NW_004517690.1	scaffold2853	12052	CC	GG	GG	INTERGENIC		
SNP_107139_A_12143	NW_004517690.1	scaffold2853	12143	AA	TT	TT	INTERGENIC		
SNP_107140_A_12176	NW_004517690.1	scaffold2853	12176	AA	CC	CC	INTERGENIC		
SNP_107141_A_12202	NW_004517690.1	scaffold2853	12202	TT	GG	GG	INTERGENIC		
SNP_107142_A_12275	NW_004517690.1	scaffold2853	12275	GG	TT	TT	INTERGENIC		
SNP_107143_A_12276	NW_004517690.1	scaffold2853	12276	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107144_A_12349	NW_004517690.1	scaffold2853	12349	CC	TT	TT	INTERGENIC			
SNP_107145_A_15953	NW_004517690.1	scaffold2853	15953	GG	AA	AA	INTERGENIC			
SNP_107146_A_16204	NW_004517690.1	scaffold2853	16204	GG	AA	AA	INTERGENIC			
SNP_107147_A_16287	NW_004517690.1	scaffold2853	16287	AA	GG	GG	INTERGENIC			
SNP_107148_A_16311	NW_004517690.1	scaffold2853	16311	CC	TT	TT	INTERGENIC			
SNP_107149_A_16459	NW_004517690.1	scaffold2853	16459	TT	GG	GG	INTERGENIC			
SNP_107150_A_16471	NW_004517690.1	scaffold2853	16471	TT	GG	GG	INTERGENIC			
SNP_107151_A_16478	NW_004517690.1	scaffold2853	16478	TT	GG	GG	INTERGENIC			
SNP_107152_A_16485	NW_004517690.1	scaffold2853	16485	TT	GG	GG	INTERGENIC			
SNP_107153_A_16499	NW_004517690.1	scaffold2853	16499	TT	GG	GG	INTERGENIC			
SNP_107154_A_16541	NW_004517690.1	scaffold2853	16541	AA	GG	GG	INTERGENIC			
SNP_107155_A_16569	NW_004517690.1	scaffold2853	16569	TT	CC	CC	INTERGENIC			
SNP_107156_A_16795	NW_004517690.1	scaffold2853	16795	CC	TT	TT	INTERGENIC			
SNP_107157_A_16806	NW_004517690.1	scaffold2853	16806	AA	CC	CC	INTERGENIC			
SNP_107158_A_16829	NW_004517690.1	scaffold2853	16829	TT	GG	GG	INTERGENIC			
SNP_107159_A_21576	NW_004517690.1	scaffold2853	21576	AA	TT	TT	INTERGENIC			
SNP_107160_A_25918	NW_004517690.1	scaffold2853	25918	AA	GG	GG	INTERGENIC			
SNP_107161_A_26294	NW_004517690.1	scaffold2853	26294	CC	TT	TT	INTERGENIC			
SNP_107162_A_530	NW_004517694.1	scaffold2859	530	TT	AA	AA	INTERGENIC			
SNP_107163_A_9616	NW_004517695.1	scaffold2861	9616	TT	CC	CC	INTERGENIC			
SNP_107164_A_9624	NW_004517695.1	scaffold2861	9624	AA	TT	TT	INTERGENIC			
SNP_107165_A_29991	NW_004517700.1	scaffold2869	29991	TT	GG	GG	URR	101494274	serine carboxypeptidase-like 45	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107166_A_30212	NW_004517700.1	scaffold2869	30212	GG	AA	AA	URR	101494274	serine carboxypeptidase-like 45
SNP_107167_A_30241	NW_004517700.1	scaffold2869	30241	AA	GG	GG	URR	101494274	serine carboxypeptidase-like 45
SNP_107168_A_272	NW_004517701.1	scaffold2870	272	CC	TT	TT	INTERGENIC		
SNP_107169_A_522	NW_004517701.1	scaffold2870	522	TT	CC	CC	INTERGENIC		
SNP_107170_A_558	NW_004517701.1	scaffold2870	558	CC	TT	TT	INTERGENIC		
SNP_107171_A_561	NW_004517701.1	scaffold2870	561	GG	AA	AA	INTERGENIC		
SNP_107172_A_18618	NW_004517702.1	scaffold2871	18618	CC	GG	GG	INTERGENIC		
SNP_107173_A_23421	NW_004517702.1	scaffold2871	23421	GG	TT	TT	INTERGENIC		
SNP_107174_A_23422	NW_004517702.1	scaffold2871	23422	CC	TT	TT	INTERGENIC		
SNP_107175_A_30409	NW_004517702.1	scaffold2871	30409	CC	TT	TT	INTERGENIC		
SNP_107177_A_30425	NW_004517702.1	scaffold2871	30425	TT	CC	CC	INTERGENIC		
SNP_107180_A_34575	NW_004517702.1	scaffold2871	34575	GG	CC	CC	INTERGENIC		
SNP_107181_A_34809	NW_004517702.1	scaffold2871	34809	CC	AA	AA	INTERGENIC		
SNP_107182_A_663	NW_004517708.1	scaffold2878	663	CC	AA	AA	INTERGENIC		
SNP_107183_A_962	NW_004517708.1	scaffold2878	962	CC	GG	GG	INTERGENIC		
SNP_107184_A_998	NW_004517708.1	scaffold2878	998	GG	AA	AA	INTERGENIC		
SNP_107185_A_1053	NW_004517708.1	scaffold2878	1053	GG	AA	AA	INTERGENIC		
SNP_107187_A_13117	NW_004517712.1	scaffold2882	13117	TT	AA	AA	INTERGENIC		
SNP_107188_A_25342	NW_004517712.1	scaffold2882	25342	AA	CC	CC	INTERGENIC		
SNP_107189_A_25343	NW_004517712.1	scaffold2882	25343	TT	AA	AA	INTERGENIC		
SNP_107190_A_26058	NW_004517712.1	scaffold2882	26058	GG	AA	AA	INTERGENIC		
SNP_107191_A_26072	NW_004517712.1	scaffold2882	26072	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107192_A_26077	NW_004517712.1	scaffold2882	26077	TT	CC	CC	INTERGENIC		
SNP_107193_A_26118	NW_004517712.1	scaffold2882	26118	AA	TT	TT	INTERGENIC		
SNP_107194_A_26184	NW_004517712.1	scaffold2882	26184	CC	AA	AA	INTERGENIC		
SNP_107195_A_26193	NW_004517712.1	scaffold2882	26193	TT	GG	GG	INTERGENIC		
SNP_107196_A_26194	NW_004517712.1	scaffold2882	26194	AA	TT	TT	INTERGENIC		
SNP_107197_A_377	NW_004517717.1	scaffold2887	377	TT	GG	GG	INTERGENIC		
SNP_107198_A_7017	NW_004517717.1	scaffold2887	7017	AA	GG	GG	INTERGENIC		
SNP_107199_A_7388	NW_004517717.1	scaffold2887	7388	AA	TT	TT	INTERGENIC		
SNP_107200_A_7403	NW_004517717.1	scaffold2887	7403	TT	AA	AA	INTERGENIC		
SNP_107201_A_29770	NW_004517717.1	scaffold2887	29770	GG	AA	AA	INTERGENIC		
SNP_107202_A_29924	NW_004517717.1	scaffold2887	29924	AA	GG	GG	INTERGENIC		
SNP_107203_A_29933	NW_004517717.1	scaffold2887	29933	TT	AA	AA	INTERGENIC		
SNP_107204_A_29971	NW_004517717.1	scaffold2887	29971	GG	AA	AA	INTERGENIC		
SNP_107205_A_3476	NW_004517718.1	scaffold2888	3476	GG	CC	CC	URR	101496645	uncharacterized LOC101496645
SNP_107206_A_3639	NW_004517718.1	scaffold2888	3639	TT	CC	CC	URR	101496645	uncharacterized LOC101496645
SNP_107207_A_5199	NW_004517718.1	scaffold2888	5199	CC	GG	GG	INTERGENIC		
SNP_107208_A_10381	NW_004517721.1	scaffold2893	10381	AA	GG	GG	INTERGENIC		
SNP_107209_A_10639	NW_004517721.1	scaffold2893	10639	CC	TT	TT	INTERGENIC		
SNP_107211_A_10722	NW_004517721.1	scaffold2893	10722	AA	GG	GG	INTERGENIC		
SNP_107212_A_17908	NW_004517721.1	scaffold2893	17908	TT	AA	AA	INTERGENIC		
SNP_107213_A_25997	NW_004517721.1	scaffold2893	25997	TT	CC	CC	INTERGENIC		
SNP_107214_A_26026	NW_004517721.1	scaffold2893	26026	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107215_A_26057	NW_004517721.1	scaffold2893	26057	AA	GG	GG	INTERGENIC		
SNP_107216_A_26125	NW_004517721.1	scaffold2893	26125	GG	AA	AA	INTERGENIC		
SNP_107217_A_26286	NW_004517721.1	scaffold2893	26286	AA	TT	TT	INTERGENIC		
SNP_107218_A_26344	NW_004517721.1	scaffold2893	26344	TT	AA	AA	INTERGENIC		
SNP_107219_A_26371	NW_004517721.1	scaffold2893	26371	GG	AA	AA	INTERGENIC		
SNP_107220_A_26544	NW_004517721.1	scaffold2893	26544	TT	CC	CC	INTERGENIC		
SNP_107221_A_26582	NW_004517721.1	scaffold2893	26582	AA	TT	TT	INTERGENIC		
SNP_107222_A_26663	NW_004517721.1	scaffold2893	26663	TT	GG	GG	INTERGENIC		
SNP_107223_A_26704	NW_004517721.1	scaffold2893	26704	TT	GG	GG	INTERGENIC		
SNP_107224_A_26926	NW_004517721.1	scaffold2893	26926	CC	AA	AA	INTERGENIC		
SNP_107225_A_26963	NW_004517721.1	scaffold2893	26963	CC	TT	TT	INTERGENIC		
SNP_107226_A_27176	NW_004517721.1	scaffold2893	27176	GG	CC	CC	INTERGENIC		
SNP_107227_A_27191	NW_004517721.1	scaffold2893	27191	GG	TT	TT	INTERGENIC		
SNP_107228_A_27237	NW_004517721.1	scaffold2893	27237	CC	TT	TT	INTERGENIC		
SNP_107229_A_27538	NW_004517721.1	scaffold2893	27538	TT	CC	CC	DRR	101497293	uncharacterized LOC101497293
SNP_107230_A_27598	NW_004517721.1	scaffold2893	27598	AA	GG	GG	DRR	101497293	uncharacterized LOC101497293
SNP_107231_A_27761	NW_004517721.1	scaffold2893	27761	CC	AA	AA	DRR	101497293	uncharacterized LOC101497293
SNP_107232_A_27838	NW_004517721.1	scaffold2893	27838	CC	GG	GG	DRR	101497293	uncharacterized LOC101497293
SNP_107233_A_2789	NW_004517723.1	scaffold2896	2789	AA	GG	GG	INTERGENIC		
SNP_107234_A_19747	NW_004517723.1	scaffold2896	19747	AA	GG	GG	INTERGENIC		
SNP_107235_A_30452	NW_004517723.1	scaffold2896	30452	AA	GG	GG	INTERGENIC		
SNP_107237_A_32806	NW_004517723.1	scaffold2896	32806	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107238_A_32818	NW_004517723.1	scaffold2896	32818	TT	GG	GG	INTERGENIC			
SNP_107239_A_32843	NW_004517723.1	scaffold2896	32843	CC	TT	TT	INTERGENIC			
SNP_107240_A_32893	NW_004517723.1	scaffold2896	32893	TT	CC	CC	INTERGENIC			
SNP_107241_A_33014	NW_004517723.1	scaffold2896	33014	GG	AA	AA	INTERGENIC			
SNP_107242_A_33885	NW_004517723.1	scaffold2896	33885	CC	TT	TT	INTERGENIC			
SNP_107243_A_1067	NW_004517727.1	scaffold2900	1067	CC	GG	GG	INTERGENIC			
SNP_107244_A_1343	NW_004517727.1	scaffold2900	1343	AA	TT	TT	INTERGENIC			
SNP_107245_A_1596	NW_004517727.1	scaffold2900	1596	GG	AA	AA	INTERGENIC			
SNP_107246_A_1837	NW_004517727.1	scaffold2900	1837	TT	AA	AA	INTERGENIC			
SNP_107247_A_2134	NW_004517727.1	scaffold2900	2134	GG	CC	CC	INTERGENIC			
SNP_107248_A_5179	NW_004517727.1	scaffold2900	5179	TT	AA	AA	INTERGENIC			
SNP_107249_A_5298	NW_004517727.1	scaffold2900	5298	AA	CC	CC	INTERGENIC			
SNP_107250_A_5453	NW_004517727.1	scaffold2900	5453	GG	AA	AA	INTERGENIC			
SNP_107251_A_5570	NW_004517727.1	scaffold2900	5570	CC	TT	TT	INTERGENIC			
SNP_107252_A_7046	NW_004517727.1	scaffold2900	7046	GG	AA	AA	INTERGENIC			
SNP_107253_A_7330	NW_004517727.1	scaffold2900	7330	CC	TT	TT	INTERGENIC			
SNP_107254_A_7429	NW_004517727.1	scaffold2900	7429	GG	AA	AA	INTERGENIC			
SNP_107255_A_7480	NW_004517727.1	scaffold2900	7480	CC	AA	AA	INTERGENIC			
SNP_107256_A_7681	NW_004517727.1	scaffold2900	7681	TT	GG	GG	INTERGENIC			
SNP_107258_A_8196	NW_004517727.1	scaffold2900	8196	AA	GG	GG	INTERGENIC			
SNP_107259_A_8214	NW_004517727.1	scaffold2900	8214	CC	GG	GG	INTERGENIC			
SNP_107260_A_8418	NW_004517727.1	scaffold2900	8418	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107261_A_9514	NW_004517727.1	scaffold2900	9514	GG	AA	AA	INTERGENIC			
SNP_107262_A_9568	NW_004517727.1	scaffold2900	9568	TT	CC	CC	INTERGENIC			
SNP_107263_A_9570	NW_004517727.1	scaffold2900	9570	CC	TT	TT	INTERGENIC			
SNP_107264_A_13360	NW_004517727.1	scaffold2900	13360	CC	GG	GG	INTERGENIC			
SNP_107265_A_13488	NW_004517727.1	scaffold2900	13488	GG	TT	TT	INTERGENIC			
SNP_107266_A_382	NW_004517729.1	scaffold2903	382	CC	TT	TT	INTERGENIC			
SNP_107268_A_4258	NW_004517730.1	scaffold2904	4258	CC	AA	AA	INTERGENIC			
SNP_107269_A_6058	NW_004517730.1	scaffold2904	6058	AA	GG	GG	INTERGENIC			
SNP_107270_A_6070	NW_004517730.1	scaffold2904	6070	AA	GG	GG	INTERGENIC			
SNP_107271_A_6154	NW_004517730.1	scaffold2904	6154	TT	AA	AA	INTERGENIC			
SNP_107272_A_6190	NW_004517730.1	scaffold2904	6190	GG	TT	TT	INTERGENIC			
SNP_107273_A_6196	NW_004517730.1	scaffold2904	6196	GG	AA	AA	INTERGENIC			
SNP_107274_A_6268	NW_004517730.1	scaffold2904	6268	GG	AA	AA	INTERGENIC			
SNP_107275_A_6487	NW_004517730.1	scaffold2904	6487	AA	GG	GG	INTERGENIC			
SNP_107276_A_863	NW_004517731.1	scaffold2905	863	GG	AA	AA	INTERGENIC			
SNP_107279_A_30837	NW_004517733.1	scaffold2907	30837	CC	GG	GG	INTERGENIC			
SNP_107280_A_4051	NW_004517737.1	scaffold2914	4051	TT	CC	CC	INTERGENIC			
SNP_107281_A_4281	NW_004517737.1	scaffold2914	4281	AA	CC	CC	INTERGENIC			
SNP_107282_A_4300	NW_004517737.1	scaffold2914	4300	AA	GG	GG	INTERGENIC			
SNP_107283_A_4352	NW_004517737.1	scaffold2914	4352	AA	GG	GG	INTERGENIC			
SNP_107284_A_4358	NW_004517737.1	scaffold2914	4358	AA	GG	GG	INTERGENIC			
SNP_107285_A_4369	NW_004517737.1	scaffold2914	4369	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107286_A_4381	NW_004517737.1	scaffold2914	4381	AA	GG	GG	INTERGENIC			
SNP_107287_A_4384	NW_004517737.1	scaffold2914	4384	AA	GG	GG	INTERGENIC			
SNP_107288_A_4397	NW_004517737.1	scaffold2914	4397	AA	GG	GG	INTERGENIC			
SNP_107289_A_4400	NW_004517737.1	scaffold2914	4400	AA	GG	GG	INTERGENIC			
SNP_107290_A_4459	NW_004517737.1	scaffold2914	4459	AA	GG	GG	INTERGENIC			
SNP_107291_A_4462	NW_004517737.1	scaffold2914	4462	AA	GG	GG	INTERGENIC			
SNP_107292_A_4468	NW_004517737.1	scaffold2914	4468	GG	AA	AA	INTERGENIC			
SNP_107293_A_4473	NW_004517737.1	scaffold2914	4473	AA	GG	GG	INTERGENIC			
SNP_107294_A_4480	NW_004517737.1	scaffold2914	4480	TT	CC	CC	INTERGENIC			
SNP_107295_A_4490	NW_004517737.1	scaffold2914	4490	AA	CC	CC	INTERGENIC			
SNP_107296_A_4803	NW_004517737.1	scaffold2914	4803	AA	GG	GG	INTERGENIC			
SNP_107297_A_4865	NW_004517737.1	scaffold2914	4865	AA	CC	CC	INTERGENIC			
SNP_107298_A_16282	NW_004517738.1	scaffold2915	16282	AA	CC	CC	INTERGENIC			
SNP_107299_A_15830	NW_004517739.1	scaffold2916	15830	CC	TT	TT	INTERGENIC			
SNP_107300_A_16059	NW_004517739.1	scaffold2916	16059	AA	GG	GG	INTERGENIC			
SNP_107301_A_16069	NW_004517739.1	scaffold2916	16069	GG	AA	AA	INTERGENIC			
SNP_107302_A_19658	NW_004517739.1	scaffold2916	19658	TT	CC	CC	INTERGENIC			
SNP_107304_A_55758	NW_004517739.1	scaffold2916	55758	AA	GG	GG	INTERGENIC			
SNP_107305_A_55803	NW_004517739.1	scaffold2916	55803	TT	CC	CC	INTERGENIC			
SNP_107306_A_64653	NW_004517739.1	scaffold2916	64653	CC	TT	TT	INTRON	101499057	uncharacterized LOC101499057	
SNP_107307_A_8588	NW_004517742.1	scaffold2919	8588	GG	AA	AA	INTERGENIC			
SNP_107308_A_8641	NW_004517742.1	scaffold2919	8641	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107309_A_1640	NW_004517744.1	scaffold2921	1640	CC	TT	TT	INTERGENIC			
SNP_107310_A_2082	NW_004517744.1	scaffold2921	2082	AA	GG	GG	INTERGENIC			
SNP_107311_A_8507	NW_004517744.1	scaffold2921	8507	GG	CC	CC	INTERGENIC			
SNP_107312_A_8519	NW_004517744.1	scaffold2921	8519	TT	CC	CC	INTERGENIC			
SNP_107313_A_8521	NW_004517744.1	scaffold2921	8521	CC	TT	TT	INTERGENIC			
SNP_107314_A_8523	NW_004517744.1	scaffold2921	8523	AA	GG	GG	INTERGENIC			
SNP_107315_A_8529	NW_004517744.1	scaffold2921	8529	TT	AA	AA	INTERGENIC			
SNP_107316_A_11467	NW_004517744.1	scaffold2921	11467	GG	TT	TT	INTERGENIC			
SNP_107317_A_11494	NW_004517744.1	scaffold2921	11494	CC	TT	TT	INTERGENIC			
SNP_107318_A_11786	NW_004517744.1	scaffold2921	11786	TT	AA	AA	INTERGENIC			
SNP_107319_A_11789	NW_004517744.1	scaffold2921	11789	CC	AA	TT	INTERGENIC			
SNP_107320_A_248	NW_004517745.1	scaffold2922	248	AA	GG	GG	INTERGENIC			
SNP_107321_A_253	NW_004517745.1	scaffold2922	253	CC	TT	TT	INTERGENIC			
SNP_107322_A_2335	NW_004517745.1	scaffold2922	2335	GG	AA	AA	INTERGENIC			
SNP_107323_A_2377	NW_004517745.1	scaffold2922	2377	AA	GG	GG	INTERGENIC			
SNP_107324_A_2507	NW_004517745.1	scaffold2922	2507	AA	GG	GG	INTERGENIC			
SNP_107325_A_5554	NW_004517745.1	scaffold2922	5554	GG	AA	AA	INTERGENIC			
SNP_107326_A_5780	NW_004517745.1	scaffold2922	5780	TT	CC	CC	INTERGENIC			
SNP_107327_A_5820	NW_004517745.1	scaffold2922	5820	TT	GG	GG	INTERGENIC			
SNP_107328_A_5851	NW_004517745.1	scaffold2922	5851	TT	CC	CC	INTERGENIC			
SNP_107329_A_5982	NW_004517745.1	scaffold2922	5982	TT	GG	GG	INTERGENIC			
SNP_107330_A_5997	NW_004517745.1	scaffold2922	5997	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107331_A_6003	NW_004517745.1	scaffold2922	6003	AA	TT	TT	INTERGENIC			
SNP_107332_A_6486	NW_004517745.1	scaffold2922	6486	GG	AA	AA	INTERGENIC			
SNP_107333_A_6656	NW_004517745.1	scaffold2922	6656	GG	AA	AA	INTERGENIC			
SNP_107334_A_6937	NW_004517745.1	scaffold2922	6937	TT	CC	CC	INTERGENIC			
SNP_107335_A_6993	NW_004517745.1	scaffold2922	6993	CC	TT	TT	INTERGENIC			
SNP_107336_A_7102	NW_004517745.1	scaffold2922	7102	TT	CC	CC	INTERGENIC			
SNP_107337_A_7461	NW_004517745.1	scaffold2922	7461	TT	CC	CC	INTERGENIC			
SNP_107338_A_7852	NW_004517745.1	scaffold2922	7852	GG	AA	AA	INTERGENIC			
SNP_107339_A_7919	NW_004517745.1	scaffold2922	7919	GG	AA	AA	INTERGENIC			
SNP_107340_A_8048	NW_004517745.1	scaffold2922	8048	CC	TT	TT	INTERGENIC			
SNP_107341_A_8142	NW_004517745.1	scaffold2922	8142	AA	GG	GG	INTERGENIC			
SNP_107342_A_8407	NW_004517745.1	scaffold2922	8407	AA	CC	CC	INTERGENIC			
SNP_107343_A_8419	NW_004517745.1	scaffold2922	8419	CC	TT	TT	INTERGENIC			
SNP_107344_A_8526	NW_004517745.1	scaffold2922	8526	CC	AA	AA	INTERGENIC			
SNP_107345_A_8545	NW_004517745.1	scaffold2922	8545	TT	CC	CC	INTERGENIC			
SNP_107346_A_8566	NW_004517745.1	scaffold2922	8566	GG	TT	TT	INTERGENIC			
SNP_107347_A_8664	NW_004517745.1	scaffold2922	8664	AA	CC	CC	INTERGENIC			
SNP_107348_A_11353	NW_004517745.1	scaffold2922	11353	TT	CC	CC	INTERGENIC			
SNP_107349_A_11380	NW_004517745.1	scaffold2922	11380	GG	AA	AA	INTERGENIC			
SNP_107350_A_11381	NW_004517745.1	scaffold2922	11381	AA	CC	CC	INTERGENIC			
SNP_107351_A_13895	NW_004517745.1	scaffold2922	13895	GG	AA	AA	INTERGENIC			
SNP_107352_A_143	NW_004517746.1	scaffold2924	143	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107353_A_152	NW_004517746.1	scaffold2924	152	AA	GG	GG	INTERGENIC			
SNP_107354_A_168	NW_004517746.1	scaffold2924	168	AA	CC	CC	INTERGENIC			
SNP_107355_A_11979	NW_004517746.1	scaffold2924	11979	AA	TT	TT	INTERGENIC			
SNP_107356_A_12042	NW_004517746.1	scaffold2924	12042	TT	CC	CC	INTERGENIC			
SNP_107357_A_12273	NW_004517746.1	scaffold2924	12273	CC	TT	TT	INTERGENIC			
SNP_107358_A_12279	NW_004517746.1	scaffold2924	12279	TT	GG	GG	INTERGENIC			
SNP_107359_A_16326	NW_004517746.1	scaffold2924	16326	CC	AA	AA	INTERGENIC			
SNP_107361_A_27004	NW_004517746.1	scaffold2924	27004	CC	TT	TT	INTERGENIC			
SNP_107362_A_27355	NW_004517746.1	scaffold2924	27355	AA	CC	CC	INTERGENIC			
SNP_107363_A_27364	NW_004517746.1	scaffold2924	27364	TT	CC	CC	INTERGENIC			
SNP_107364_A_1853	NW_004517749.1	scaffold2928	1853	AA	TT	TT	INTERGENIC			
SNP_107365_A_1871	NW_004517749.1	scaffold2928	1871	CC	AA	AA	INTERGENIC			
SNP_107366_A_1958	NW_004517749.1	scaffold2928	1958	AA	CC	CC	INTERGENIC			
SNP_107367_A_2314	NW_004517749.1	scaffold2928	2314	CC	TT	TT	INTERGENIC			
SNP_107368_A_7084	NW_004517749.1	scaffold2928	7084	CC	TT	TT	INTERGENIC			
SNP_107369_A_7090	NW_004517749.1	scaffold2928	7090	TT	CC	CC	INTERGENIC			
SNP_107370_A_7123	NW_004517749.1	scaffold2928	7123	TT	AA	AA	INTERGENIC			
SNP_107371_A_7126	NW_004517749.1	scaffold2928	7126	AA	TT	TT	INTERGENIC			
SNP_107372_A_7132	NW_004517749.1	scaffold2928	7132	GG	AA	AA	INTERGENIC			
SNP_107373_A_7164	NW_004517749.1	scaffold2928	7164	TT	AA	AA	INTERGENIC			
SNP_107374_A_7183	NW_004517749.1	scaffold2928	7183	GG	AA	AA	INTERGENIC			
SNP_107375_A_7189	NW_004517749.1	scaffold2928	7189	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107376_A_7201	NW_004517749.1	scaffold2928	7201	CC	TT	TT	INTERGENIC			
SNP_107377_A_8143	NW_004517749.1	scaffold2928	8143	GG	TT	TT	INTERGENIC			
SNP_107378_A_9539	NW_004517749.1	scaffold2928	9539	TT	CC	CC	INTERGENIC			
SNP_107379_A_9594	NW_004517749.1	scaffold2928	9594	AA	TT	TT	INTERGENIC			
SNP_107380_A_10290	NW_004517749.1	scaffold2928	10290	CC	AA	AA	INTERGENIC			
SNP_107381_A_10476	NW_004517749.1	scaffold2928	10476	TT	GG	GG	INTERGENIC			
SNP_107382_A_10500	NW_004517749.1	scaffold2928	10500	CC	TT	TT	INTERGENIC			
SNP_107384_A_12996	NW_004517749.1	scaffold2928	12996	GG	CC	CC	INTERGENIC			
SNP_107385_A_13023	NW_004517749.1	scaffold2928	13023	TT	GG	GG	INTERGENIC			
SNP_107386_A_13328	NW_004517749.1	scaffold2928	13328	CC	AA	AA	INTERGENIC			
SNP_107387_A_13339	NW_004517749.1	scaffold2928	13339	TT	CC	CC	INTERGENIC			
SNP_107388_A_16246	NW_004517749.1	scaffold2928	16246	TT	CC	CC	INTERGENIC			
SNP_107389_A_20529	NW_004517749.1	scaffold2928	20529	TT	AA	AA	INTERGENIC			
SNP_107391_A_22961	NW_004517749.1	scaffold2928	22961	CC	TT	TT	INTERGENIC			
SNP_107392_A_22984	NW_004517749.1	scaffold2928	22984	AA	GG	GG	INTERGENIC			
SNP_107393_A_23024	NW_004517749.1	scaffold2928	23024	GG	AA	AA	INTERGENIC			
SNP_107394_A_23054	NW_004517749.1	scaffold2928	23054	AA	TT	TT	INTERGENIC			
SNP_107395_A_23061	NW_004517749.1	scaffold2928	23061	TT	GG	GG	INTERGENIC			
SNP_107396_A_23156	NW_004517749.1	scaffold2928	23156	AA	TT	TT	INTERGENIC			
SNP_107397_A_23179	NW_004517749.1	scaffold2928	23179	GG	CC	CC	INTERGENIC			
SNP_107398_A_23192	NW_004517749.1	scaffold2928	23192	AA	GG	GG	INTERGENIC			
SNP_107399_A_23349	NW_004517749.1	scaffold2928	23349	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107400_A_23474	NW_004517749.1	scaffold2928	23474	TT	AA	AA	INTERGENIC			
SNP_107401_A_23510	NW_004517749.1	scaffold2928	23510	GG	TT	TT	INTERGENIC			
SNP_107402_A_23520	NW_004517749.1	scaffold2928	23520	TT	AA	AA	INTERGENIC			
SNP_107403_A_23631	NW_004517749.1	scaffold2928	23631	AA	CC	CC	INTERGENIC			
SNP_107404_A_23661	NW_004517749.1	scaffold2928	23661	GG	AA	AA	INTERGENIC			
SNP_107406_A_23739	NW_004517749.1	scaffold2928	23739	TT	CC	CC	INTERGENIC			
SNP_107407_A_23745	NW_004517749.1	scaffold2928	23745	TT	CC	CC	INTERGENIC			
SNP_107408_A_23809	NW_004517749.1	scaffold2928	23809	GG	TT	TT	INTERGENIC			
SNP_107409_A_23816	NW_004517749.1	scaffold2928	23816	TT	CC	CC	INTERGENIC			
SNP_107410_A_23839	NW_004517749.1	scaffold2928	23839	GG	CC	CC	INTERGENIC			
SNP_107411_A_23850	NW_004517749.1	scaffold2928	23850	GG	CC	CC	INTERGENIC			
SNP_107412_A_23880	NW_004517749.1	scaffold2928	23880	GG	AA	AA	INTERGENIC			
SNP_107413_A_23900	NW_004517749.1	scaffold2928	23900	TT	CC	CC	INTERGENIC			
SNP_107414_A_23946	NW_004517749.1	scaffold2928	23946	AA	TT	TT	INTERGENIC			
SNP_107415_A_24034	NW_004517749.1	scaffold2928	24034	TT	AA	AA	INTERGENIC			
SNP_107416_A_24299	NW_004517749.1	scaffold2928	24299	GG	TT	TT	INTERGENIC			
SNP_107417_A_24323	NW_004517749.1	scaffold2928	24323	TT	CC	CC	INTERGENIC			
SNP_107418_A_24401	NW_004517749.1	scaffold2928	24401	GG	AA	AA	INTERGENIC			
SNP_107419_A_24487	NW_004517749.1	scaffold2928	24487	AA	GG	GG	INTERGENIC			
SNP_107420_A_24615	NW_004517749.1	scaffold2928	24615	TT	AA	AA	INTERGENIC			
SNP_107421_A_24661	NW_004517749.1	scaffold2928	24661	GG	AA	AA	INTERGENIC			
SNP_107422_A_24696	NW_004517749.1	scaffold2928	24696	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107423_A_24762	NW_004517749.1	scaffold2928	24762	GG	TT	TT	INTERGENIC			
SNP_107424_A_24783	NW_004517749.1	scaffold2928	24783	GG	TT	TT	INTERGENIC			
SNP_107425_A_24829	NW_004517749.1	scaffold2928	24829	CC	TT	TT	INTERGENIC			
SNP_107426_A_24830	NW_004517749.1	scaffold2928	24830	GG	AA	AA	INTERGENIC			
SNP_107427_A_24912	NW_004517749.1	scaffold2928	24912	AA	GG	GG	INTERGENIC			
SNP_107428_A_24987	NW_004517749.1	scaffold2928	24987	AA	TT	TT	INTERGENIC			
SNP_107429_A_25005	NW_004517749.1	scaffold2928	25005	TT	AA	AA	INTERGENIC			
SNP_107430_A_25018	NW_004517749.1	scaffold2928	25018	CC	TT	TT	INTERGENIC			
SNP_107431_A_25372	NW_004517749.1	scaffold2928	25372	CC	AA	AA	INTERGENIC			
SNP_107432_A_25574	NW_004517749.1	scaffold2928	25574	GG	CC	CC	INTERGENIC			
SNP_107433_A_30936	NW_004517749.1	scaffold2928	30936	CC	TT	TT	INTERGENIC			
SNP_107434_A_30990	NW_004517749.1	scaffold2928	30990	AA	GG	GG	INTERGENIC			
SNP_107435_A_31210	NW_004517749.1	scaffold2928	31210	AA	TT	TT	INTERGENIC			
SNP_107436_A_31339	NW_004517749.1	scaffold2928	31339	TT	CC	CC	INTERGENIC			
SNP_107437_A_34636	NW_004517749.1	scaffold2928	34636	AA	CC	CC	INTERGENIC			
SNP_107438_A_35666	NW_004517749.1	scaffold2928	35666	AA	GG	GG	INTERGENIC			
SNP_107439_A_36931	NW_004517749.1	scaffold2928	36931	AA	CC	CC	INTERGENIC			
SNP_107440_A_38660	NW_004517749.1	scaffold2928	38660	GG	AA	AA	INTERGENIC			
SNP_107441_A_38891	NW_004517749.1	scaffold2928	38891	CC	TT	TT	INTERGENIC			
SNP_107443_A_43472	NW_004517749.1	scaffold2928	43472	AA	TT	TT	INTERGENIC			
SNP_107444_A_43952	NW_004517749.1	scaffold2928	43952	AA	CC	CC	INTERGENIC			
SNP_107445_A_44186	NW_004517749.1	scaffold2928	44186	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107446_A_44257	NW_004517749.1	scaffold2928	44257	TT	CC	CC	INTERGENIC			
SNP_107448_A_44571	NW_004517749.1	scaffold2928	44571	GG	AA	AA	INTERGENIC			
SNP_107449_A_44587	NW_004517749.1	scaffold2928	44587	TT	AA	AA	INTERGENIC			
SNP_107450_A_44595	NW_004517749.1	scaffold2928	44595	AA	GG	GG	INTERGENIC			
SNP_107451_A_44685	NW_004517749.1	scaffold2928	44685	CC	TT	TT	INTERGENIC			
SNP_107452_A_640	NW_004517751.1	scaffold2931	640	TT	CC	CC	INTERGENIC			
SNP_107453_A_10672	NW_004517751.1	scaffold2931	10672	CC	AA	AA	INTERGENIC			
SNP_107454_A_1869	NW_004517752.1	scaffold2932	1869	GG	TT	TT	INTERGENIC			
SNP_107456_A_2665	NW_004517752.1	scaffold2932	2665	AA	CC	CC	INTERGENIC			
SNP_107457_A_3014	NW_004517752.1	scaffold2932	3014	GG	AA	AA	INTERGENIC			
SNP_107458_A_3079	NW_004517752.1	scaffold2932	3079	TT	CC	CC	INTERGENIC			
SNP_107459_A_3428	NW_004517752.1	scaffold2932	3428	CC	AA	AA	INTERGENIC			
SNP_107460_A_3471	NW_004517752.1	scaffold2932	3471	GG	AA	AA	INTERGENIC			
SNP_107461_A_3613	NW_004517752.1	scaffold2932	3613	CC	GG	GG	INTERGENIC			
SNP_107462_A_3619	NW_004517752.1	scaffold2932	3619	AA	TT	TT	INTERGENIC			
SNP_107463_A_3870	NW_004517752.1	scaffold2932	3870	CC	TT	TT	INTERGENIC			
SNP_107465_A_4780	NW_004517752.1	scaffold2932	4780	TT	AA	AA	INTERGENIC			
SNP_107466_A_4983	NW_004517752.1	scaffold2932	4983	AA	GG	GG	INTERGENIC			
SNP_107467_A_6407	NW_004517752.1	scaffold2932	6407	CC	AA	AA	INTERGENIC			
SNP_107468_A_6493	NW_004517752.1	scaffold2932	6493	TT	AA	AA	INTERGENIC			
SNP_107469_A_6538	NW_004517752.1	scaffold2932	6538	TT	AA	AA	INTERGENIC			
SNP_107470_A_10368	NW_004517752.1	scaffold2932	10368	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107471_A_10717	NW_004517752.1	scaffold2932	10717	AA	TT	TT	INTERGENIC			
SNP_107472_A_10847	NW_004517752.1	scaffold2932	10847	GG	AA	AA	INTERGENIC			
SNP_107473_A_12605	NW_004517752.1	scaffold2932	12605	CC	AA	AA	INTERGENIC			
SNP_107474_A_12813	NW_004517752.1	scaffold2932	12813	TT	AA	AA	INTERGENIC			
SNP_107475_A_12835	NW_004517752.1	scaffold2932	12835	GG	AA	AA	INTERGENIC			
SNP_107476_A_13156	NW_004517752.1	scaffold2932	13156	TT	CC	CC	INTERGENIC			
SNP_107477_A_13313	NW_004517752.1	scaffold2932	13313	GG	AA	AA	INTERGENIC			
SNP_107478_A_16997	NW_004517752.1	scaffold2932	16997	CC	GG	GG	INTERGENIC			
SNP_107479_A_17173	NW_004517752.1	scaffold2932	17173	AA	TT	TT	INTERGENIC			
SNP_107480_A_18612	NW_004517752.1	scaffold2932	18612	GG	TT	TT	INTERGENIC			
SNP_107481_A_19932	NW_004517752.1	scaffold2932	19932	AA	CC	CC	INTERGENIC			
SNP_107482_A_25106	NW_004517752.1	scaffold2932	25106	CC	AA	AA	INTERGENIC			
SNP_107483_A_25226	NW_004517752.1	scaffold2932	25226	AA	GG	GG	INTERGENIC			
SNP_107484_A_25438	NW_004517752.1	scaffold2932	25438	TT	CC	CC	INTERGENIC			
SNP_107485_A_26155	NW_004517752.1	scaffold2932	26155	GG	AA	AA	INTERGENIC			
SNP_107486_A_64	NW_004517753.1	scaffold2933	64	TT	AA	AA	INTERGENIC			
SNP_107487_A_69	NW_004517753.1	scaffold2933	69	GG	AA	AA	INTERGENIC			
SNP_107488_A_94	NW_004517753.1	scaffold2933	94	TT	CC	CC	INTERGENIC			
SNP_107489_A_1143	NW_004517753.1	scaffold2933	1143	TT	GG	GG	INTERGENIC			
SNP_107490_A_1533	NW_004517753.1	scaffold2933	1533	CC	GG	GG	INTERGENIC			
SNP_107491_A_1535	NW_004517753.1	scaffold2933	1535	AA	TT	TT	INTERGENIC			
SNP_107492_A_1699	NW_004517754.1	scaffold2934	1699	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107494_A_1744	NW_004517754.1	scaffold2934	1744	AA	CC	CC	INTERGENIC			
SNP_107496_A_75	NW_004517757.1	scaffold2937	75	AA	GG	GG	INTERGENIC			
SNP_107497_A_64	NW_004517760.1	scaffold2940	64	GG	TT	TT	INTERGENIC			
SNP_107498_A_118	NW_004517760.1	scaffold2940	118	CC	TT	TT	INTERGENIC			
SNP_107499_A_378	NW_004517760.1	scaffold2940	378	CC	TT	TT	INTERGENIC			
SNP_107500_A_710	NW_004517760.1	scaffold2940	710	TT	CC	CC	INTERGENIC			
SNP_107501_A_890	NW_004517760.1	scaffold2940	890	AA	CC	CC	INTERGENIC			
SNP_107502_A_909	NW_004517760.1	scaffold2940	909	GG	AA	AA	INTERGENIC			
SNP_107503_A_976	NW_004517760.1	scaffold2940	976	CC	TT	TT	INTERGENIC			
SNP_107504_A_989	NW_004517760.1	scaffold2940	989	GG	CC	CC	INTERGENIC			
SNP_107505_A_1031	NW_004517760.1	scaffold2940	1031	GG	AA	AA	INTERGENIC			
SNP_107506_A_1039	NW_004517760.1	scaffold2940	1039	AA	GG	GG	INTERGENIC			
SNP_107507_A_1055	NW_004517760.1	scaffold2940	1055	TT	AA	AA	INTERGENIC			
SNP_107508_A_1089	NW_004517760.1	scaffold2940	1089	CC	GG	GG	INTERGENIC			
SNP_107509_A_1100	NW_004517760.1	scaffold2940	1100	AA	GG	GG	INTERGENIC			
SNP_107510_A_1101	NW_004517760.1	scaffold2940	1101	TT	CC	CC	INTERGENIC			
SNP_107511_A_3297	NW_004517760.1	scaffold2940	3297	CC	GG	GG	INTERGENIC			
SNP_107512_A_7777	NW_004517760.1	scaffold2940	7777	GG	AA	AA	INTERGENIC			
SNP_107513_A_7820	NW_004517760.1	scaffold2940	7820	CC	TT	TT	INTERGENIC			
SNP_107514_A_25438	NW_004517760.1	scaffold2940	25438	TT	AA	AA	INTERGENIC			
SNP_107515_A_25453	NW_004517760.1	scaffold2940	25453	TT	CC	CC	INTERGENIC			
SNP_107516_A_25499	NW_004517760.1	scaffold2940	25499	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107517_A_25863	NW_004517760.1	scaffold2940	25863	CC	AA	AA	INTERGENIC			
SNP_107518_A_7864	NW_004517763.1	scaffold2946	7864	GG	CC	CC	INTERGENIC			
SNP_107519_A_8679	NW_004517763.1	scaffold2946	8679	AA	GG	GG	INTERGENIC			
SNP_107520_A_22271	NW_004517763.1	scaffold2946	22271	GG	CC	CC	INTERGENIC			
SNP_107521_A_22486	NW_004517763.1	scaffold2946	22486	CC	TT	TT	INTERGENIC			
SNP_107522_A_25613	NW_004517763.1	scaffold2946	25613	AA	GG	GG	INTERGENIC			
SNP_107523_A_31270	NW_004517763.1	scaffold2946	31270	TT	CC	CC	INTERGENIC			
SNP_107524_A_340	NW_004517764.1	scaffold2947	340	AA	TT	TT	INTERGENIC			
SNP_107525_A_453	NW_004517764.1	scaffold2947	453	AA	TT	TT	INTERGENIC			
SNP_107526_A_542	NW_004517764.1	scaffold2947	542	TT	CC	CC	INTERGENIC			
SNP_107527_A_488	NW_004517765.1	scaffold2950	488	AA	GG	GG	INTERGENIC			
SNP_107528_A_507	NW_004517765.1	scaffold2950	507	TT	CC	CC	INTERGENIC			
SNP_107530_A_583	NW_004517765.1	scaffold2950	583	AA	GG	GG	INTERGENIC			
SNP_107531_A_615	NW_004517765.1	scaffold2950	615	CC	TT	TT	INTERGENIC			
SNP_107532_A_634	NW_004517765.1	scaffold2950	634	CC	TT	TT	INTERGENIC			
SNP_107533_A_636	NW_004517765.1	scaffold2950	636	TT	CC	CC	INTERGENIC			
SNP_107535_A_1266	NW_004517765.1	scaffold2950	1266	GG	AA	AA	DRR	101499370	UDP-glycosyltransferase 74B1-like	
SNP_107537_A_1469	NW_004517765.1	scaffold2950	1469	CC	TT	TT	DRR	101499370	UDP-glycosyltransferase 74B1-like	
SNP_107538_A_4281	NW_004517765.1	scaffold2950	4281	CC	TT	TT	URR	101499370	UDP-glycosyltransferase 74B1-like	
SNP_107541_A_6930	NW_004517765.1	scaffold2950	6930	TT	AA	AA	INTERGENIC			
SNP_107542_A_7738	NW_004517765.1	scaffold2950	7738	CC	TT	TT	INTERGENIC			
SNP_107544_A_7793	NW_004517765.1	scaffold2950	7793	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107545_A_8111	NW_004517765.1	scaffold2950	8111	TT	CC	CC	INTERGENIC		
SNP_107546_A_8183	NW_004517765.1	scaffold2950	8183	TT	CC	CC	INTERGENIC		
SNP_107548_A_8404	NW_004517765.1	scaffold2950	8404	TT	CC	CC	NON_SYNONYMOUS_CODING	id219392	Unknown function
SNP_107549_A_8516	NW_004517765.1	scaffold2950	8516	CC	GG	GG	NON_SYNONYMOUS_CODING	101499677	DNA polymerase beta
SNP_107550_A_8524	NW_004517765.1	scaffold2950	8524	CC	GG	GG	NON_SYNONYMOUS_CODING	id219392	Unknown function
SNP_107551_A_8534	NW_004517765.1	scaffold2950	8534	GG	AA	AA	NON_SYNONYMOUS_CODING	id219392	Unknown function
SNP_107552_A_8609	NW_004517765.1	scaffold2950	8609	TT	CC	CC	INTRON	101499677	DNA polymerase beta
SNP_107553_A_8613	NW_004517765.1	scaffold2950	8613	AA	CC	CC	INTRON	101499677	DNA polymerase beta
SNP_107554_A_10103	NW_004517765.1	scaffold2950	10103	GG	AA	AA	INTRON	101499677	DNA polymerase beta
SNP_107556_A_10218	NW_004517765.1	scaffold2950	10218	GG	TT	TT	INTRON	101499677	DNA polymerase beta
SNP_107557_A_10318	NW_004517765.1	scaffold2950	10318	GG	CC	CC	INTRON	101499677	DNA polymerase beta
SNP_107558_A_10370	NW_004517765.1	scaffold2950	10370	CC	GG	GG	NON_SYNONYMOUS_CODING	id219392	Unknown function
SNP_107559_A_10559	NW_004517765.1	scaffold2950	10559	AA	GG	GG	INTRON	101499677	DNA polymerase beta
SNP_107561_A_10710	NW_004517765.1	scaffold2950	10710	TT	GG	GG	INTRON	101499677	DNA polymerase beta
SNP_107562_A_10713	NW_004517765.1	scaffold2950	10713	CC	TT	TT	INTRON	101499677	DNA polymerase beta
SNP_107563_A_10717	NW_004517765.1	scaffold2950	10717	AA	CC	CC	INTRON	101499677	DNA polymerase beta
SNP_107564_A_10798	NW_004517765.1	scaffold2950	10798	CC	AA	AA	INTRON	101499677	DNA polymerase beta
SNP_107565_A_10957	NW_004517765.1	scaffold2950	10957	TT	CC	CC	INTRON	101499677	DNA polymerase beta
SNP_107566_A_11035	NW_004517765.1	scaffold2950	11035	GG	TT	TT	NON_SYNONYMOUS_CODING	101499677	DNA polymerase beta
SNP_107567_A_11159	NW_004517765.1	scaffold2950	11159	TT	GG	GG	INTRON	101499677	DNA polymerase beta
SNP_107568_A_11353	NW_004517765.1	scaffold2950	11353	GG	AA	AA	NON_SYNONYMOUS_CODING	id219392	Unknown function
SNP_107569_A_11372	NW_004517765.1	scaffold2950	11372	CC	TT	TT	NON_SYNONYMOUS_CODING	id219392	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107570_A_11415	NW_004517765.1	scaffold2950	11415	AA	TT	TT	INTRON	101499677	DNA polymerase beta
SNP_107571_A_11610	NW_004517765.1	scaffold2950	11610	AA	GG	GG	INTRON	101499677	DNA polymerase beta
SNP_107572_A_11663	NW_004517765.1	scaffold2950	11663	GG	AA	AA	INTRON	101499677	DNA polymerase beta
SNP_107573_A_11675	NW_004517765.1	scaffold2950	11675	CC	TT	TT	INTRON	101499677	DNA polymerase beta
SNP_107574_A_11906	NW_004517765.1	scaffold2950	11906	AA	TT	TT	INTRON	101499677	DNA polymerase beta
SNP_107575_A_12126	NW_004517765.1	scaffold2950	12126	AA	GG	GG	INTRON	101499677	DNA polymerase beta
SNP_107576_A_12292	NW_004517765.1	scaffold2950	12292	CC	AA	AA	SYNONYMOUS_CODING	id219392	Unknown function
SNP_107577_A_66	NW_004517766.1	scaffold2951	66	GG	AA	AA	INTERGENIC		
SNP_107578_A_12841	NW_004517767.1	scaffold2954	12841	CC	TT	TT	INTERGENIC		
SNP_107579_A_12853	NW_004517767.1	scaffold2954	12853	CC	TT	TT	INTERGENIC		
SNP_107580_A_902	NW_004517768.1	scaffold2955	902	GG	AA	AA	INTERGENIC		
SNP_107581_A_5767	NW_004517768.1	scaffold2955	5767	TT	CC	CC	INTERGENIC		
SNP_107582_A_5831	NW_004517768.1	scaffold2955	5831	TT	CC	CC	INTERGENIC		
SNP_107583_A_6064	NW_004517768.1	scaffold2955	6064	TT	CC	CC	INTERGENIC		
SNP_107585_A_8000	NW_004517768.1	scaffold2955	8000	TT	CC	CC	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107586_A_8068	NW_004517768.1	scaffold2955	8068	GG	TT	TT	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107587_A_8104	NW_004517768.1	scaffold2955	8104	CC	TT	TT	SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107588_A_9114	NW_004517768.1	scaffold2955	9114	AA	CC	CC	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107589_A_9449	NW_004517768.1	scaffold2955	9449	CC	GG	GG	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107590_A_9511	NW_004517768.1	scaffold2955	9511	AA	GG	GG	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107591_A_9554	NW_004517768.1	scaffold2955	9554	AA	GG	GG	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107592_A_9563	NW_004517768.1	scaffold2955	9563	GG	AA	AA	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107593_A_9623	NW_004517768.1	scaffold2955	9623	AA	GG	GG	NON_SYNONYMOUS_CODING	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107595_A_9761	NW_004517768.1	scaffold2955	9761	TT	CC	CC	DRR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107597_A_10096	NW_004517768.1	scaffold2955	10096	TT	CC	CC	DRR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107598_A_10157	NW_004517768.1	scaffold2955	10157	GG	AA	AA	DRR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107600_A_11439	NW_004517768.1	scaffold2955	11439	CC	GG	GG	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107601_A_11650	NW_004517768.1	scaffold2955	11650	CC	TT	TT	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107602_A_11697	NW_004517768.1	scaffold2955	11697	AA	CC	CC	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107603_A_11700	NW_004517768.1	scaffold2955	11700	AA	TT	TT	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107605_A_11736	NW_004517768.1	scaffold2955	11736	TT	CC	CC	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107606_A_11949	NW_004517768.1	scaffold2955	11949	TT	CC	CC	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107607_A_11980	NW_004517768.1	scaffold2955	11980	CC	TT	TT	URR	101500529	pentatricopeptide repeat-containing protein mitochondrial-like At1g12775,
SNP_107608_A_22130	NW_004517768.1	scaffold2955	22130	TT	AA	AA	INTERGENIC		
SNP_107609_A_22478	NW_004517768.1	scaffold2955	22478	CC	TT	TT	INTERGENIC		
SNP_107610_A_23103	NW_004517768.1	scaffold2955	23103	TT	AA	AA	INTERGENIC		
SNP_107611_A_29861	NW_004517768.1	scaffold2955	29861	GG	TT	TT	INTRON	101500847	uncharacterized LOC101500847
SNP_107612_A_33676	NW_004517768.1	scaffold2955	33676	TT	CC	CC	INTRON	101500847	uncharacterized LOC101500847
SNP_107614_A_37377	NW_004517768.1	scaffold2955	37377	CC	TT	TT	URR	101500847	uncharacterized LOC101500847
SNP_107615_A_37727	NW_004517768.1	scaffold2955	37727	CC	TT	TT	URR	101501173	uncharacterized LOC101501173
SNP_107616_A_41741	NW_004517768.1	scaffold2955	41741	GG	TT	TT	INTERGENIC		
SNP_107617_A_41747	NW_004517768.1	scaffold2955	41747	GG	AA	AA	INTERGENIC		
SNP_107618_A_41756	NW_004517768.1	scaffold2955	41756	AA	GG	GG	INTERGENIC		
SNP_107619_A_43518	NW_004517768.1	scaffold2955	43518	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107620_A_43615	NW_004517768.1	scaffold2955	43615	GG	AA	AA	INTERGENIC			
SNP_107621_A_43632	NW_004517768.1	scaffold2955	43632	TT	GG	GG	INTERGENIC			
SNP_107622_A_1404	NW_004517770.1	scaffold2957	1404	CC	GG	GG	INTERGENIC			
SNP_107623_A_2652	NW_004517770.1	scaffold2957	2652	GG	TT	TT	INTERGENIC			
SNP_107624_A_9523	NW_004517770.1	scaffold2957	9523	AA	TT	TT	INTERGENIC			
SNP_107625_A_9956	NW_004517770.1	scaffold2957	9956	AA	CC	CC	INTERGENIC			
SNP_107626_A_13669	NW_004517772.1	scaffold2959	13669	CC	GG	GG	INTERGENIC			
SNP_107627_A_13862	NW_004517772.1	scaffold2959	13862	TT	CC	CC	INTERGENIC			
SNP_107628_A_13962	NW_004517772.1	scaffold2959	13962	CC	TT	TT	INTERGENIC			
SNP_107629_A_13963	NW_004517772.1	scaffold2959	13963	AA	GG	GG	INTERGENIC			
SNP_107630_A_16048	NW_004517772.1	scaffold2959	16048	TT	GG	GG	INTERGENIC			
SNP_107631_A_16382	NW_004517772.1	scaffold2959	16382	TT	GG	GG	INTERGENIC			
SNP_107632_A_465	NW_004517773.1	scaffold2960	465	GG	AA	AA	INTERGENIC			
SNP_107634_A_208	NW_004517775.1	scaffold2964	208	GG	CC	CC	INTERGENIC			
SNP_107635_A_209	NW_004517775.1	scaffold2964	209	AA	TT	TT	INTERGENIC			
SNP_107636_A_239	NW_004517775.1	scaffold2964	239	GG	CC	CC	INTERGENIC			
SNP_107637_A_311	NW_004517775.1	scaffold2964	311	GG	AA	AA	INTERGENIC			
SNP_107638_A_503	NW_004517775.1	scaffold2964	503	CC	AA	AA	INTERGENIC			
SNP_107639_A_629	NW_004517775.1	scaffold2964	629	TT	GG	GG	INTERGENIC			
SNP_107640_A_1079	NW_004517778.1	scaffold2967	1079	AA	GG	GG	INTERGENIC			
SNP_107641_A_22066	NW_004517779.1	scaffold2968	22066	TT	AA	AA	INTERGENIC			
SNP_107642_A_22115	NW_004517779.1	scaffold2968	22115	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107643_A_5222	NW_004517780.1	scaffold2969	5222	CC	TT	TT	INTERGENIC		
SNP_107644_A_23683	NW_004517780.1	scaffold2969	23683	TT	CC	CC	INTERGENIC		
SNP_107645_A_23685	NW_004517780.1	scaffold2969	23685	CC	TT	TT	INTERGENIC		
SNP_107646_A_23701	NW_004517780.1	scaffold2969	23701	CC	GG	GG	INTERGENIC		
SNP_107647_A_23717	NW_004517780.1	scaffold2969	23717	GG	TT	TT	INTERGENIC		
SNP_107648_A_23738	NW_004517780.1	scaffold2969	23738	AA	GG	GG	INTERGENIC		
SNP_107649_A_23747	NW_004517780.1	scaffold2969	23747	TT	GG	GG	INTERGENIC		
SNP_107650_A_23752	NW_004517780.1	scaffold2969	23752	CC	TT	TT	INTERGENIC		
SNP_107651_A_23753	NW_004517780.1	scaffold2969	23753	CC	TT	TT	INTERGENIC		
SNP_107652_A_23756	NW_004517780.1	scaffold2969	23756	TT	GG	GG	INTERGENIC		
SNP_107653_A_23761	NW_004517780.1	scaffold2969	23761	GG	TT	TT	INTERGENIC		
SNP_107654_A_25801	NW_004517780.1	scaffold2969	25801	GG	AA	AA	INTERGENIC		
SNP_107655_A_25860	NW_004517780.1	scaffold2969	25860	GG	TT	TT	INTERGENIC		
SNP_107656_A_46357	NW_004517780.1	scaffold2969	46357	TT	CC	CC	INTERGENIC		
SNP_107657_A_46398	NW_004517780.1	scaffold2969	46398	GG	TT	TT	INTERGENIC		
SNP_107658_A_46661	NW_004517780.1	scaffold2969	46661	AA	GG	GG	INTERGENIC		
SNP_107659_A_50489	NW_004517780.1	scaffold2969	50489	TT	CC	CC	INTRON	101501803	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_107660_A_52000	NW_004517780.1	scaffold2969	52000	GG	AA	AA	INTRON	101501803	protein ZINC INDUCED FACILITATOR-LIKE 1-like
SNP_107661_A_416	NW_004517782.1	scaffold2974	416	TT	CC	CC	INTERGENIC		
SNP_107662_A_1391	NW_004517782.1	scaffold2974	1391	AA	TT	TT	INTERGENIC		
SNP_107663_A_1475	NW_004517782.1	scaffold2974	1475	CC	TT	TT	INTERGENIC		
SNP_107664_A_583	NW_004517785.1	scaffold2979	583	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107665_A_1923	NW_004517787.1	scaffold2981	1923	TT	CC	CC	INTERGENIC			
SNP_107666_A_11062	NW_004517787.1	scaffold2981	11062	CC	TT	TT	INTERGENIC			
SNP_107668_A_17559	NW_004517787.1	scaffold2981	17559	AA	GG	GG	INTERGENIC			
SNP_107669_A_21864	NW_004517787.1	scaffold2981	21864	GG	TT	TT	INTERGENIC			
SNP_107670_A_25616	NW_004517787.1	scaffold2981	25616	AA	GG	GG	INTERGENIC			
SNP_107671_A_25636	NW_004517787.1	scaffold2981	25636	GG	TT	TT	INTERGENIC			
SNP_107672_A_32612	NW_004517787.1	scaffold2981	32612	GG	AA	AA	INTERGENIC			
SNP_107673_A_32613	NW_004517787.1	scaffold2981	32613	TT	CC	CC	INTERGENIC			
SNP_107674_A_32635	NW_004517787.1	scaffold2981	32635	CC	TT	TT	INTERGENIC			
SNP_107675_A_32818	NW_004517787.1	scaffold2981	32818	TT	GG	GG	INTERGENIC			
SNP_107676_A_33066	NW_004517787.1	scaffold2981	33066	TT	CC	CC	INTERGENIC			
SNP_107677_A_33082	NW_004517787.1	scaffold2981	33082	TT	GG	GG	INTERGENIC			
SNP_107678_A_33104	NW_004517787.1	scaffold2981	33104	TT	CC	CC	INTERGENIC			
SNP_107679_A_33159	NW_004517787.1	scaffold2981	33159	GG	TT	TT	INTERGENIC			
SNP_107680_A_33160	NW_004517787.1	scaffold2981	33160	AA	TT	TT	INTERGENIC			
SNP_107681_A_33251	NW_004517787.1	scaffold2981	33251	GG	AA	AA	INTERGENIC			
SNP_107682_A_33260	NW_004517787.1	scaffold2981	33260	AA	GG	GG	INTERGENIC			
SNP_107683_A_33331	NW_004517787.1	scaffold2981	33331	TT	GG	GG	INTERGENIC			
SNP_107684_A_33437	NW_004517787.1	scaffold2981	33437	TT	GG	GG	INTERGENIC			
SNP_107685_A_33635	NW_004517787.1	scaffold2981	33635	CC	TT	TT	INTERGENIC			
SNP_107686_A_14751	NW_004517789.1	scaffold2984	14751	TT	CC	CC	INTERGENIC			
SNP_107687_A_14964	NW_004517789.1	scaffold2984	14964	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107688_A_19446	NW_004517789.1	scaffold2984	19446	CC	TT	TT	INTERGENIC			
SNP_107689_A_19473	NW_004517789.1	scaffold2984	19473	CC	GG	GG	INTERGENIC			
SNP_107690_A_20948	NW_004517789.1	scaffold2984	20948	TT	CC	CC	INTERGENIC			
SNP_107691_A_21560	NW_004517789.1	scaffold2984	21560	CC	TT	TT	INTERGENIC			
SNP_107692_A_22074	NW_004517789.1	scaffold2984	22074	CC	GG	GG	INTERGENIC			
SNP_107693_A_22156	NW_004517789.1	scaffold2984	22156	TT	CC	CC	INTERGENIC			
SNP_107694_A_22391	NW_004517789.1	scaffold2984	22391	TT	GG	GG	INTERGENIC			
SNP_107695_A_22717	NW_004517789.1	scaffold2984	22717	GG	AA	AA	INTERGENIC			
SNP_107696_A_23023	NW_004517789.1	scaffold2984	23023	TT	CC	CC	INTERGENIC			
SNP_107697_A_23138	NW_004517789.1	scaffold2984	23138	GG	AA	AA	INTERGENIC			
SNP_107698_A_23234	NW_004517789.1	scaffold2984	23234	GG	AA	AA	INTERGENIC			
SNP_107699_A_24345	NW_004517789.1	scaffold2984	24345	GG	TT	TT	INTERGENIC			
SNP_107700_A_24499	NW_004517789.1	scaffold2984	24499	TT	CC	CC	INTERGENIC			
SNP_107701_A_24625	NW_004517789.1	scaffold2984	24625	TT	GG	GG	INTERGENIC			
SNP_107702_A_24678	NW_004517789.1	scaffold2984	24678	GG	AA	AA	INTERGENIC			
SNP_107703_A_24998	NW_004517789.1	scaffold2984	24998	CC	TT	TT	INTERGENIC			
SNP_107704_A_25048	NW_004517789.1	scaffold2984	25048	CC	TT	TT	INTERGENIC			
SNP_107705_A_25065	NW_004517789.1	scaffold2984	25065	TT	AA	AA	INTERGENIC			
SNP_107706_A_25371	NW_004517789.1	scaffold2984	25371	AA	GG	GG	INTERGENIC			
SNP_107707_A_25845	NW_004517789.1	scaffold2984	25845	TT	GG	GG	INTERGENIC			
SNP_107708_A_15503	NW_004517792.1	scaffold2988	15503	TT	CC	CC	INTERGENIC			
SNP_107709_A_15621	NW_004517792.1	scaffold2988	15621	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107710_A_15731	NW_004517792.1	scaffold2988	15731	AA	GG	GG	INTERGENIC			
SNP_107711_A_15733	NW_004517792.1	scaffold2988	15733	CC	TT	TT	INTERGENIC			
SNP_107713_A_16363	NW_004517792.1	scaffold2988	16363	CC	AA	AA	INTERGENIC			
SNP_107714_A_16864	NW_004517792.1	scaffold2988	16864	AA	TT	TT	INTERGENIC			
SNP_107715_A_23155	NW_004517792.1	scaffold2988	23155	AA	CC	CC	INTERGENIC			
SNP_107716_A_23458	NW_004517792.1	scaffold2988	23458	AA	GG	GG	INTERGENIC			
SNP_107717_A_23486	NW_004517792.1	scaffold2988	23486	GG	AA	AA	INTERGENIC			
SNP_107718_A_23493	NW_004517792.1	scaffold2988	23493	AA	CC	CC	INTERGENIC			
SNP_107719_A_23508	NW_004517792.1	scaffold2988	23508	GG	AA	AA	INTERGENIC			
SNP_107720_A_23543	NW_004517792.1	scaffold2988	23543	TT	CC	CC	INTERGENIC			
SNP_107721_A_23580	NW_004517792.1	scaffold2988	23580	AA	GG	GG	INTERGENIC			
SNP_107722_A_39637	NW_004517792.1	scaffold2988	39637	GG	AA	AA	INTERGENIC			
SNP_107723_A_39649	NW_004517792.1	scaffold2988	39649	CC	GG	GG	INTERGENIC			
SNP_107725_A_39660	NW_004517792.1	scaffold2988	39660	CC	TT	TT	INTERGENIC			
SNP_107726_A_47529	NW_004517792.1	scaffold2988	47529	TT	AA	AA	INTERGENIC			
SNP_107727_A_58648	NW_004517792.1	scaffold2988	58648	CC	TT	TT	INTERGENIC			
SNP_107728_A_58744	NW_004517792.1	scaffold2988	58744	CC	AA	AA	INTERGENIC			
SNP_107729_A_59176	NW_004517792.1	scaffold2988	59176	CC	TT	TT	INTERGENIC			
SNP_107730_A_59224	NW_004517792.1	scaffold2988	59224	TT	AA	AA	INTERGENIC			
SNP_107731_A_9809	NW_004517793.1	scaffold2989	9809	GG	AA	AA	INTERGENIC			
SNP_107732_A_14764	NW_004517793.1	scaffold2989	14764	AA	CC	CC	INTERGENIC			
SNP_107733_A_15652	NW_004517793.1	scaffold2989	15652	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107734_A_6172	NW_004517794.1	scaffold2990	6172	AA	GG	GG	INTERGENIC			
SNP_107735_A_6304	NW_004517794.1	scaffold2990	6304	GG	AA	AA	INTERGENIC			
SNP_107736_A_6334	NW_004517794.1	scaffold2990	6334	AA	CC	CC	INTERGENIC			
SNP_107737_A_6505	NW_004517794.1	scaffold2990	6505	AA	TT	TT	INTERGENIC			
SNP_107738_A_6563	NW_004517794.1	scaffold2990	6563	AA	TT	TT	INTERGENIC			
SNP_107739_A_6570	NW_004517794.1	scaffold2990	6570	TT	CC	CC	INTERGENIC			
SNP_107740_A_6597	NW_004517794.1	scaffold2990	6597	TT	GG	GG	INTERGENIC			
SNP_107741_A_6645	NW_004517794.1	scaffold2990	6645	CC	AA	AA	INTERGENIC			
SNP_107742_A_6647	NW_004517794.1	scaffold2990	6647	AA	GG	GG	INTERGENIC			
SNP_107743_A_6682	NW_004517794.1	scaffold2990	6682	TT	GG	GG	INTERGENIC			
SNP_107744_A_6703	NW_004517794.1	scaffold2990	6703	AA	GG	GG	INTERGENIC			
SNP_107745_A_6719	NW_004517794.1	scaffold2990	6719	GG	TT	TT	INTERGENIC			
SNP_107746_A_10243	NW_004517794.1	scaffold2990	10243	CC	AA	AA	INTERGENIC			
SNP_107747_A_4565	NW_004517798.1	scaffold2996	4565	AA	GG	GG	INTERGENIC			
SNP_107748_A_4582	NW_004517798.1	scaffold2996	4582	CC	TT	TT	INTERGENIC			
SNP_107749_A_4692	NW_004517798.1	scaffold2996	4692	TT	CC	CC	INTERGENIC			
SNP_107750_A_4756	NW_004517798.1	scaffold2996	4756	GG	TT	TT	INTERGENIC			
SNP_107751_A_5020	NW_004517800.1	scaffold2998	5020	GG	AA	AA	INTERGENIC			
SNP_107752_A_5411	NW_004517800.1	scaffold2998	5411	CC	TT	TT	INTERGENIC			
SNP_107753_A_5684	NW_004517800.1	scaffold2998	5684	GG	AA	AA	INTERGENIC			
SNP_107754_A_581	NW_004517802.1	scaffold3002	581	TT	GG	GG	INTERGENIC			
SNP_107755_A_633	NW_004517802.1	scaffold3002	633	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107756_A_2623	NW_004517802.1	scaffold3002	2623	GG	TT	TT	INTERGENIC		
SNP_107757_A_2629	NW_004517802.1	scaffold3002	2629	GG	AA	AA	INTERGENIC		
SNP_107758_A_2631	NW_004517802.1	scaffold3002	2631	TT	CC	CC	INTERGENIC		
SNP_107759_A_2641	NW_004517802.1	scaffold3002	2641	GG	AA	AA	INTERGENIC		
SNP_107760_A_2944	NW_004517802.1	scaffold3002	2944	GG	TT	TT	INTERGENIC		
SNP_107761_A_478	NW_004517807.1	scaffold3008	478	CC	TT	TT	INTERGENIC		
SNP_107762_A_545	NW_004517807.1	scaffold3008	545	AA	GG	GG	INTERGENIC		
SNP_107764_A_363	NW_004517809.1	scaffold3011	363	TT	CC	CC	INTERGENIC		
SNP_107765_A_632	NW_004517809.1	scaffold3011	632	GG	AA	AA	INTERGENIC		
SNP_107766_A_21829	NW_004517813.1	scaffold3015	21829	CC	AA	AA	INTERGENIC		
SNP_107767_A_56053	NW_004517813.1	scaffold3015	56053	TT	AA	AA	DRR	101502129	Unknown function
SNP_107768_A_56088	NW_004517813.1	scaffold3015	56088	AA	GG	GG	DRR	101502129	Unknown function
SNP_107769_A_59984	NW_004517813.1	scaffold3015	59984	GG	AA	AA	URR	101502129	Unknown function
SNP_107770_A_60049	NW_004517813.1	scaffold3015	60049	AA	TT	TT	URR	101502129	Unknown function
SNP_107771_A_60266	NW_004517813.1	scaffold3015	60266	GG	AA	AA	URR	101502129	Unknown function
SNP_107772_A_60285	NW_004517813.1	scaffold3015	60285	CC	TT	TT	URR	101502129	Unknown function
SNP_107773_A_60288	NW_004517813.1	scaffold3015	60288	CC	AA	AA	URR	101502129	Unknown function
SNP_107774_A_60431	NW_004517813.1	scaffold3015	60431	GG	AA	AA	URR	101502129	Unknown function
SNP_107775_A_68142	NW_004517813.1	scaffold3015	68142	CC	TT	TT	INTERGENIC		
SNP_107776_A_68346	NW_004517813.1	scaffold3015	68346	CC	TT	TT	INTERGENIC		
SNP_107777_A_68465	NW_004517813.1	scaffold3015	68465	TT	GG	GG	INTERGENIC		
SNP_107778_A_68471	NW_004517813.1	scaffold3015	68471	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107780_A_68531	NW_004517813.1	scaffold3015	68531	CC	TT	TT	INTERGENIC			
SNP_107781_A_68555	NW_004517813.1	scaffold3015	68555	GG	AA	AA	INTERGENIC			
SNP_107782_A_68559	NW_004517813.1	scaffold3015	68559	TT	AA	AA	INTERGENIC			
SNP_107783_A_68581	NW_004517813.1	scaffold3015	68581	AA	TT	TT	INTERGENIC			
SNP_107784_A_68621	NW_004517813.1	scaffold3015	68621	GG	AA	AA	INTERGENIC			
SNP_107785_A_68642	NW_004517813.1	scaffold3015	68642	CC	AA	AA	INTERGENIC			
SNP_107787_A_68672	NW_004517813.1	scaffold3015	68672	TT	GG	GG	INTERGENIC			
SNP_107788_A_68707	NW_004517813.1	scaffold3015	68707	TT	AA	AA	INTERGENIC			
SNP_107789_A_68832	NW_004517813.1	scaffold3015	68832	AA	TT	TT	INTERGENIC			
SNP_107790_A_68897	NW_004517813.1	scaffold3015	68897	AA	TT	TT	INTERGENIC			
SNP_107791_A_68940	NW_004517813.1	scaffold3015	68940	AA	CC	CC	INTERGENIC			
SNP_107792_A_69035	NW_004517813.1	scaffold3015	69035	AA	TT	TT	INTERGENIC			
SNP_107793_A_69151	NW_004517813.1	scaffold3015	69151	TT	CC	CC	INTERGENIC			
SNP_107795_A_73150	NW_004517813.1	scaffold3015	73150	AA	GG	GG	INTERGENIC			
SNP_107796_A_73196	NW_004517813.1	scaffold3015	73196	AA	TT	TT	INTERGENIC			
SNP_107797_A_73212	NW_004517813.1	scaffold3015	73212	AA	GG	GG	INTERGENIC			
SNP_107799_A_73409	NW_004517813.1	scaffold3015	73409	AA	CC	CC	INTERGENIC			
SNP_107800_A_73430	NW_004517813.1	scaffold3015	73430	AA	GG	GG	INTERGENIC			
SNP_107802_A_73610	NW_004517813.1	scaffold3015	73610	CC	TT	TT	INTERGENIC			
SNP_107803_A_73612	NW_004517813.1	scaffold3015	73612	CC	TT	TT	INTERGENIC			
SNP_107804_A_73639	NW_004517813.1	scaffold3015	73639	AA	GG	GG	INTERGENIC			
SNP_107805_A_73688	NW_004517813.1	scaffold3015	73688	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107806_A_73809	NW_004517813.1	scaffold3015	73809	CC	TT	TT	INTERGENIC			
SNP_107807_A_73838	NW_004517813.1	scaffold3015	73838	GG	CC	CC	INTERGENIC			
SNP_107808_A_73930	NW_004517813.1	scaffold3015	73930	TT	CC	CC	INTERGENIC			
SNP_107810_A_73988	NW_004517813.1	scaffold3015	73988	AA	GG	GG	INTERGENIC			
SNP_107812_A_74121	NW_004517813.1	scaffold3015	74121	CC	GG	GG	INTERGENIC			
SNP_107814_A_74191	NW_004517813.1	scaffold3015	74191	CC	GG	GG	INTERGENIC			
SNP_107815_A_74229	NW_004517813.1	scaffold3015	74229	TT	CC	CC	INTERGENIC			
SNP_107816_A_74263	NW_004517813.1	scaffold3015	74263	GG	CC	CC	INTERGENIC			
SNP_107817_A_74335	NW_004517813.1	scaffold3015	74335	AA	GG	GG	INTERGENIC			
SNP_107818_A_74488	NW_004517813.1	scaffold3015	74488	TT	CC	CC	INTERGENIC			
SNP_107819_A_76863	NW_004517813.1	scaffold3015	76863	CC	TT	TT	INTERGENIC			
SNP_107820_A_77055	NW_004517813.1	scaffold3015	77055	CC	TT	TT	INTERGENIC			
SNP_107821_A_80389	NW_004517813.1	scaffold3015	80389	GG	AA	AA	INTERGENIC			
SNP_107822_A_80418	NW_004517813.1	scaffold3015	80418	GG	AA	AA	INTERGENIC			
SNP_107823_A_80540	NW_004517813.1	scaffold3015	80540	CC	TT	TT	INTERGENIC			
SNP_107824_A_80542	NW_004517813.1	scaffold3015	80542	CC	TT	TT	INTERGENIC			
SNP_107825_A_80585	NW_004517813.1	scaffold3015	80585	GG	AA	AA	INTERGENIC			
SNP_107826_A_80616	NW_004517813.1	scaffold3015	80616	CC	AA	AA	INTERGENIC			
SNP_107827_A_80842	NW_004517813.1	scaffold3015	80842	AA	GG	GG	INTERGENIC			
SNP_107828_A_80890	NW_004517813.1	scaffold3015	80890	GG	AA	AA	INTERGENIC			
SNP_107829_A_80893	NW_004517813.1	scaffold3015	80893	TT	CC	CC	INTERGENIC			
SNP_107830_A_80944	NW_004517813.1	scaffold3015	80944	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107831_A_80984	NW_004517813.1	scaffold3015	80984	GG	AA	AA	INTERGENIC			
SNP_107832_A_81230	NW_004517813.1	scaffold3015	81230	TT	CC	CC	INTERGENIC			
SNP_107833_A_81554	NW_004517813.1	scaffold3015	81554	GG	TT	TT	INTERGENIC			
SNP_107834_A_81559	NW_004517813.1	scaffold3015	81559	AA	GG	GG	INTERGENIC			
SNP_107835_A_81620	NW_004517813.1	scaffold3015	81620	TT	CC	CC	INTERGENIC			
SNP_107836_A_81648	NW_004517813.1	scaffold3015	81648	TT	AA	AA	INTERGENIC			
SNP_107837_A_39404	NW_004517814.1	scaffold3016	39404	TT	AA	AA	INTERGENIC			
SNP_107838_A_39556	NW_004517814.1	scaffold3016	39556	CC	AA	AA	INTERGENIC			
SNP_107839_A_57133	NW_004517814.1	scaffold3016	57133	CC	TT	TT	INTERGENIC			
SNP_107840_A_57341	NW_004517814.1	scaffold3016	57341	TT	CC	CC	INTERGENIC			
SNP_107841_A_120326	NW_004517814.1	scaffold3016	120326	TT	CC	CC	INTRON	101505541	zinc finger MYM-type protein 1-like	
SNP_107842_A_120348	NW_004517814.1	scaffold3016	120348	TT	CC	CC	INTRON	101505541	zinc finger MYM-type protein 1-like	
SNP_107843_A_1762	NW_004517816.1	scaffold3018	1762	TT	CC	CC	INTERGENIC			
SNP_107845_A_893	NW_004517817.1	scaffold3019	893	TT	CC	CC	INTERGENIC			
SNP_107846_A_17705	NW_004517817.1	scaffold3019	17705	CC	AA	AA	INTERGENIC			
SNP_107848_A_18321	NW_004517817.1	scaffold3019	18321	CC	GG	GG	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107849_A_18501	NW_004517817.1	scaffold3019	18501	TT	CC	CC	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107850_A_18668	NW_004517817.1	scaffold3019	18668	CC	AA	AA	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107852_A_18808	NW_004517817.1	scaffold3019	18808	GG	AA	AA	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107853_A_18892	NW_004517817.1	scaffold3019	18892	GG	AA	AA	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107854_A_18937	NW_004517817.1	scaffold3019	18937	AA	CC	CC	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	
SNP_107855_A_19620	NW_004517817.1	scaffold3019	19620	GG	AA	AA	INTRON	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_107856_A_19966	NW_004517817.1	scaffold3019	19966	AA	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107857_A_19975	NW_004517817.1	scaffold3019	19975	AA	CC	CC	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107858_A_20115	NW_004517817.1	scaffold3019	20115	CC	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107859_A_20131	NW_004517817.1	scaffold3019	20131	CC	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107860_A_20303	NW_004517817.1	scaffold3019	20303	CC	AA	AA	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107861_A_20406	NW_004517817.1	scaffold3019	20406	CC	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107862_A_20408	NW_004517817.1	scaffold3019	20408	GG	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107863_A_20499	NW_004517817.1	scaffold3019	20499	TT	GG	GG	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107864_A_20510	NW_004517817.1	scaffold3019	20510	AA	GG	GG	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107865_A_20607	NW_004517817.1	scaffold3019	20607	GG	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107866_A_20611	NW_004517817.1	scaffold3019	20611	AA	CC	CC	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107867_A_20792	NW_004517817.1	scaffold3019	20792	TT	CC	CC	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107869_A_20918	NW_004517817.1	scaffold3019	20918	CC	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107870_A_21235	NW_004517817.1	scaffold3019	21235	GG	AA	AA	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107871_A_21243	NW_004517817.1	scaffold3019	21243	TT	AA	AA	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107873_A_21329	NW_004517817.1	scaffold3019	21329	AA	GG	GG	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107874_A_21343	NW_004517817.1	scaffold3019	21343	TT	AA	AA	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107875_A_21395	NW_004517817.1	scaffold3019	21395	AA	GG	GG	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107876_A_21432	NW_004517817.1	scaffold3019	21432	CC	TT	TT	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107877_A_21502	NW_004517817.1	scaffold3019	21502	CC	AA	AA	URR	101505873	protein SUPPRESSOR OF GENE SILENCING 3 homolog
SNP_107878_A_6784	NW_004517820.1	scaffold3022	6784	CC	TT	TT	INTERGENIC		
SNP_107879_A_6806	NW_004517820.1	scaffold3022	6806	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107880_A_6877	NW_004517820.1	scaffold3022	6877	AA	GG	GG	INTERGENIC			
SNP_107881_A_6904	NW_004517820.1	scaffold3022	6904	GG	AA	AA	INTERGENIC			
SNP_107882_A_7088	NW_004517820.1	scaffold3022	7088	GG	TT	TT	INTERGENIC			
SNP_107883_A_7431	NW_004517820.1	scaffold3022	7431	TT	CC	CC	INTERGENIC			
SNP_107884_A_7438	NW_004517820.1	scaffold3022	7438	TT	GG	GG	INTERGENIC			
SNP_107886_A_10589	NW_004517820.1	scaffold3022	10589	AA	GG	GG	INTERGENIC			
SNP_107887_A_10623	NW_004517820.1	scaffold3022	10623	GG	AA	AA	INTERGENIC			
SNP_107888_A_14171	NW_004517820.1	scaffold3022	14171	CC	TT	TT	INTERGENIC			
SNP_107889_A_14210	NW_004517820.1	scaffold3022	14210	AA	TT	TT	INTERGENIC			
SNP_107890_A_20201	NW_004517820.1	scaffold3022	20201	TT	AA	AA	INTERGENIC			
SNP_107891_A_20899	NW_004517820.1	scaffold3022	20899	AA	GG	GG	INTERGENIC			
SNP_107892_A_5101	NW_004517822.1	scaffold3026	5101	GG	AA	AA	INTERGENIC			
SNP_107893_A_5478	NW_004517822.1	scaffold3026	5478	TT	AA	AA	INTERGENIC			
SNP_107894_A_9199	NW_004517822.1	scaffold3026	9199	AA	TT	TT	INTERGENIC			
SNP_107895_A_9583	NW_004517822.1	scaffold3026	9583	GG	AA	AA	INTERGENIC			
SNP_107896_A_9591	NW_004517822.1	scaffold3026	9591	AA	GG	GG	INTERGENIC			
SNP_107897_A_3364	NW_004517823.1	scaffold3028	3364	TT	AA	AA	INTERGENIC			
SNP_107898_A_3405	NW_004517823.1	scaffold3028	3405	TT	AA	AA	INTERGENIC			
SNP_107899_A_3469	NW_004517823.1	scaffold3028	3469	TT	CC	CC	INTERGENIC			
SNP_107900_A_3717	NW_004517823.1	scaffold3028	3717	CC	AA	AA	INTERGENIC			
SNP_107901_A_7564	NW_004517823.1	scaffold3028	7564	GG	AA	AA	INTERGENIC			
SNP_107903_A_64	NW_004517824.1	scaffold3029	64	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107904_A_131	NW_004517824.1	scaffold3029	131	GG	AA	AA	INTERGENIC			
SNP_107906_A_582	NW_004517824.1	scaffold3029	582	GG	CC	CC	INTERGENIC			
SNP_107907_A_585	NW_004517824.1	scaffold3029	585	AA	TT	TT	INTERGENIC			
SNP_107909_A_596	NW_004517824.1	scaffold3029	596	TT	AA	AA	INTERGENIC			
SNP_107910_A_10466	NW_004517824.1	scaffold3029	10466	CC	AA	AA	INTERGENIC			
SNP_107911_A_14640	NW_004517824.1	scaffold3029	14640	CC	AA	AA	INTERGENIC			
SNP_107912_A_14672	NW_004517824.1	scaffold3029	14672	AA	GG	GG	INTERGENIC			
SNP_107913_A_14674	NW_004517824.1	scaffold3029	14674	TT	GG	GG	INTERGENIC			
SNP_107914_A_14677	NW_004517824.1	scaffold3029	14677	TT	GG	GG	INTERGENIC			
SNP_107915_A_14752	NW_004517824.1	scaffold3029	14752	GG	CC	CC	INTERGENIC			
SNP_107916_A_153	NW_004517825.1	scaffold3030	153	CC	TT	TT	INTERGENIC			
SNP_107918_A_7952	NW_004517827.1	scaffold3032	7952	TT	AA	AA	INTERGENIC			
SNP_107919_A_10672	NW_004517827.1	scaffold3032	10672	CC	TT	TT	INTERGENIC			
SNP_107920_A_11182	NW_004517827.1	scaffold3032	11182	CC	TT	TT	INTERGENIC			
SNP_107922_A_11604	NW_004517827.1	scaffold3032	11604	TT	AA	AA	INTERGENIC			
SNP_107923_A_12033	NW_004517827.1	scaffold3032	12033	GG	AA	AA	INTERGENIC			
SNP_107924_A_12148	NW_004517827.1	scaffold3032	12148	GG	AA	AA	INTERGENIC			
SNP_107925_A_12381	NW_004517827.1	scaffold3032	12381	CC	TT	TT	INTERGENIC			
SNP_107926_A_894	NW_004517828.1	scaffold3033	894	CC	AA	AA	INTERGENIC			
SNP_107929_A_12362	NW_004517831.1	scaffold3038	12362	GG	TT	TT	INTERGENIC			
SNP_107930_A_12398	NW_004517831.1	scaffold3038	12398	TT	AA	AA	INTERGENIC			
SNP_107931_A_17666	NW_004517831.1	scaffold3038	17666	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107932_A_17759	NW_004517831.1	scaffold3038	17759	AA	TT	TT	INTERGENIC			
SNP_107934_A_17936	NW_004517831.1	scaffold3038	17936	GG	AA	AA	INTERGENIC			
SNP_107935_A_18900	NW_004517831.1	scaffold3038	18900	TT	CC	CC	INTERGENIC			
SNP_107936_A_19085	NW_004517831.1	scaffold3038	19085	CC	TT	TT	INTERGENIC			
SNP_107937_A_19202	NW_004517831.1	scaffold3038	19202	GG	AA	AA	INTERGENIC			
SNP_107938_A_21490	NW_004517831.1	scaffold3038	21490	TT	CC	CC	INTERGENIC			
SNP_107939_A_21549	NW_004517831.1	scaffold3038	21549	TT	GG	GG	INTERGENIC			
SNP_107940_A_21646	NW_004517831.1	scaffold3038	21646	GG	CC	CC	INTERGENIC			
SNP_107941_A_23999	NW_004517831.1	scaffold3038	23999	CC	TT	TT	INTERGENIC			
SNP_107942_A_25027	NW_004517831.1	scaffold3038	25027	GG	AA	AA	INTERGENIC			
SNP_107943_A_28773	NW_004517831.1	scaffold3038	28773	TT	AA	AA	INTERGENIC			
SNP_107944_A_30001	NW_004517831.1	scaffold3038	30001	TT	GG	GG	INTERGENIC			
SNP_107945_A_39046	NW_004517831.1	scaffold3038	39046	TT	AA	AA	INTERGENIC			
SNP_107946_A_14422	NW_004517836.1	scaffold3046	14422	CC	TT	TT	INTERGENIC			
SNP_107948_A_14477	NW_004517836.1	scaffold3046	14477	CC	GG	GG	INTERGENIC			
SNP_107949_A_14501	NW_004517836.1	scaffold3046	14501	CC	AA	AA	INTERGENIC			
SNP_107950_A_14517	NW_004517836.1	scaffold3046	14517	TT	GG	GG	INTERGENIC			
SNP_107951_A_417	NW_004517839.1	scaffold3049	417	TT	CC	CC	INTERGENIC			
SNP_107952_A_501	NW_004517839.1	scaffold3049	501	AA	GG	GG	INTERGENIC			
SNP_107953_A_878	NW_004517839.1	scaffold3049	878	GG	AA	AA	INTERGENIC			
SNP_107954_A_178	NW_004517840.1	scaffold3050	178	CC	TT	TT	INTERGENIC			
SNP_107955_A_229	NW_004517840.1	scaffold3050	229	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107956_A_458	NW_004517840.1	scaffold3050	458	TT	AA	AA	INTERGENIC			
SNP_107957_A_520	NW_004517840.1	scaffold3050	520	TT	AA	AA	INTERGENIC			
SNP_107958_A_4729	NW_004517841.1	scaffold3051	4729	TT	CC	CC	INTERGENIC			
SNP_107959_A_4771	NW_004517841.1	scaffold3051	4771	GG	AA	AA	INTERGENIC			
SNP_107960_A_4814	NW_004517841.1	scaffold3051	4814	AA	TT	TT	INTERGENIC			
SNP_107962_A_4874	NW_004517841.1	scaffold3051	4874	GG	CC	CC	INTERGENIC			
SNP_107963_A_4877	NW_004517841.1	scaffold3051	4877	TT	CC	CC	INTERGENIC			
SNP_107964_A_4964	NW_004517841.1	scaffold3051	4964	GG	CC	CC	INTERGENIC			
SNP_107965_A_4994	NW_004517841.1	scaffold3051	4994	AA	GG	GG	INTERGENIC			
SNP_107966_A_5093	NW_004517841.1	scaffold3051	5093	CC	TT	TT	INTERGENIC			
SNP_107967_A_5209	NW_004517841.1	scaffold3051	5209	GG	CC	CC	INTERGENIC			
SNP_107968_A_5236	NW_004517841.1	scaffold3051	5236	CC	TT	TT	INTERGENIC			
SNP_107969_A_5282	NW_004517841.1	scaffold3051	5282	AA	GG	GG	INTERGENIC			
SNP_107970_A_5292	NW_004517841.1	scaffold3051	5292	GG	AA	AA	INTERGENIC			
SNP_107971_A_5301	NW_004517841.1	scaffold3051	5301	GG	AA	AA	INTERGENIC			
SNP_107972_A_5547	NW_004517841.1	scaffold3051	5547	CC	TT	TT	INTERGENIC			
SNP_107973_A_5595	NW_004517841.1	scaffold3051	5595	TT	GG	GG	INTERGENIC			
SNP_107974_A_5664	NW_004517841.1	scaffold3051	5664	AA	CC	CC	INTERGENIC			
SNP_107975_A_5677	NW_004517841.1	scaffold3051	5677	CC	GG	GG	INTERGENIC			
SNP_107976_A_17321	NW_004517841.1	scaffold3051	17321	AA	GG	GG	INTERGENIC			
SNP_107977_A_18443	NW_004517841.1	scaffold3051	18443	TT	CC	CC	INTERGENIC			
SNP_107978_A_18526	NW_004517841.1	scaffold3051	18526	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_107979_A_18573	NW_004517841.1	scaffold3051	18573	TT	CC	CC	INTERGENIC			
SNP_107980_A_18644	NW_004517841.1	scaffold3051	18644	CC	AA	AA	INTERGENIC			
SNP_107981_A_18835	NW_004517841.1	scaffold3051	18835	GG	AA	AA	INTERGENIC			
SNP_107982_A_18862	NW_004517841.1	scaffold3051	18862	GG	TT	TT	INTERGENIC			
SNP_107983_A_19009	NW_004517841.1	scaffold3051	19009	GG	AA	AA	INTERGENIC			
SNP_107984_A_7262	NW_004517842.1	scaffold3052	7262	AA	CC	CC	INTERGENIC			
SNP_107985_A_7521	NW_004517842.1	scaffold3052	7521	CC	GG	GG	INTERGENIC			
SNP_107986_A_9375	NW_004517842.1	scaffold3052	9375	GG	AA	AA	INTERGENIC			
SNP_107987_A_6283	NW_004517845.1	scaffold3058	6283	CC	TT	TT	INTERGENIC			
SNP_107988_A_27811	NW_004517845.1	scaffold3058	27811	AA	CC	CC	INTERGENIC			
SNP_107989_A_27813	NW_004517845.1	scaffold3058	27813	CC	AA	AA	INTERGENIC			
SNP_107990_A_27819	NW_004517845.1	scaffold3058	27819	AA	GG	GG	INTERGENIC			
SNP_107991_A_28063	NW_004517845.1	scaffold3058	28063	CC	GG	GG	INTERGENIC			
SNP_107992_A_28092	NW_004517845.1	scaffold3058	28092	GG	TT	TT	INTERGENIC			
SNP_107993_A_28179	NW_004517845.1	scaffold3058	28179	GG	AA	AA	INTERGENIC			
SNP_107994_A_1388	NW_004517846.1	scaffold3059	1388	GG	AA	AA	INTERGENIC			
SNP_107995_A_1390	NW_004517846.1	scaffold3059	1390	CC	TT	TT	INTERGENIC			
SNP_107996_A_1411	NW_004517846.1	scaffold3059	1411	TT	CC	CC	INTERGENIC			
SNP_107997_A_2128	NW_004517846.1	scaffold3059	2128	GG	AA	AA	INTERGENIC			
SNP_107998_A_2405	NW_004517846.1	scaffold3059	2405	TT	AA	AA	INTERGENIC			
SNP_107999_A_3019	NW_004517846.1	scaffold3059	3019	AA	GG	GG	INTERGENIC			
SNP_108000_A_3057	NW_004517846.1	scaffold3059	3057	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108001_A_3687	NW_004517846.1	scaffold3059	3687	AA	GG	GG	INTERGENIC			
SNP_108002_A_4008	NW_004517846.1	scaffold3059	4008	GG	TT	TT	INTERGENIC			
SNP_108003_A_4204	NW_004517846.1	scaffold3059	4204	CC	TT	TT	INTERGENIC			
SNP_108004_A_4469	NW_004517846.1	scaffold3059	4469	GG	AA	AA	INTERGENIC			
SNP_108005_A_64	NW_004517848.1	scaffold3061	64	AA	GG	GG	INTERGENIC			
SNP_108006_A_94	NW_004517848.1	scaffold3061	94	TT	CC	CC	INTERGENIC			
SNP_108007_A_148	NW_004517848.1	scaffold3061	148	TT	AA	AA	INTERGENIC			
SNP_108008_A_192	NW_004517848.1	scaffold3061	192	AA	GG	GG	INTERGENIC			
SNP_108009_A_512	NW_004517848.1	scaffold3061	512	CC	TT	TT	INTERGENIC			
SNP_108010_A_548	NW_004517848.1	scaffold3061	548	TT	CC	CC	INTERGENIC			
SNP_108011_A_574	NW_004517848.1	scaffold3061	574	AA	GG	GG	INTERGENIC			
SNP_108012_A_620	NW_004517848.1	scaffold3061	620	GG	CC	CC	INTERGENIC			
SNP_108013_A_682	NW_004517848.1	scaffold3061	682	AA	GG	GG	INTERGENIC			
SNP_108014_A_689	NW_004517848.1	scaffold3061	689	TT	CC	CC	INTERGENIC			
SNP_108015_A_718	NW_004517848.1	scaffold3061	718	CC	TT	TT	INTERGENIC			
SNP_108016_A_750	NW_004517848.1	scaffold3061	750	CC	AA	AA	INTERGENIC			
SNP_108017_A_779	NW_004517848.1	scaffold3061	779	AA	GG	GG	INTERGENIC			
SNP_108018_A_794	NW_004517848.1	scaffold3061	794	TT	CC	CC	INTERGENIC			
SNP_108019_A_820	NW_004517848.1	scaffold3061	820	AA	GG	GG	INTERGENIC			
SNP_108020_A_2028	NW_004517851.1	scaffold3067	2028	AA	GG	GG	INTERGENIC			
SNP_108022_A_679	NW_004517856.1	scaffold3074	679	TT	AA	AA	INTERGENIC			
SNP_108023_A_686	NW_004517856.1	scaffold3074	686	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108024_A_588	NW_004517858.1	scaffold3076	588	GG	TT	TT	INTERGENIC			
SNP_108025_A_641	NW_004517858.1	scaffold3076	641	CC	TT	TT	INTERGENIC			
SNP_108026_A_705	NW_004517858.1	scaffold3076	705	AA	GG	GG	INTERGENIC			
SNP_108027_A_1655	NW_004517858.1	scaffold3076	1655	CC	TT	TT	INTERGENIC			
SNP_108028_A_2013	NW_004517858.1	scaffold3076	2013	AA	TT	TT	INTERGENIC			
SNP_108029_A_11178	NW_004517858.1	scaffold3076	11178	CC	AA	AA	INTERGENIC			
SNP_108030_A_11232	NW_004517858.1	scaffold3076	11232	CC	TT	TT	INTERGENIC			
SNP_108031_A_11233	NW_004517858.1	scaffold3076	11233	CC	TT	TT	INTERGENIC			
SNP_108032_A_11522	NW_004517858.1	scaffold3076	11522	GG	TT	TT	INTERGENIC			
SNP_108033_A_5703	NW_004517860.1	scaffold3079	5703	TT	CC	CC	INTERGENIC			
SNP_108034_A_5774	NW_004517860.1	scaffold3079	5774	AA	CC	CC	INTERGENIC			
SNP_108035_A_6290	NW_004517860.1	scaffold3079	6290	AA	GG	GG	INTERGENIC			
SNP_108036_A_6413	NW_004517860.1	scaffold3079	6413	GG	AA	AA	INTERGENIC			
SNP_108037_A_6533	NW_004517860.1	scaffold3079	6533	GG	AA	AA	INTERGENIC			
SNP_108038_A_6767	NW_004517860.1	scaffold3079	6767	CC	GG	GG	INTERGENIC			
SNP_108039_A_6808	NW_004517860.1	scaffold3079	6808	CC	TT	TT	INTERGENIC			
SNP_108040_A_2839	NW_004517862.1	scaffold3082	2839	TT	AA	AA	INTERGENIC			
SNP_108041_A_7413	NW_004517862.1	scaffold3082	7413	AA	CC	CC	INTERGENIC			
SNP_108042_A_7539	NW_004517862.1	scaffold3082	7539	AA	TT	TT	INTERGENIC			
SNP_108044_A_19377	NW_004517869.1	scaffold3093	19377	AA	GG	GG	INTERGENIC			
SNP_108046_A_19792	NW_004517869.1	scaffold3093	19792	AA	GG	GG	INTERGENIC			
SNP_108047_A_886	NW_004517870.1	scaffold3094	886	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108048_A_918	NW_004517870.1	scaffold3094	918	AA	CC	CC	INTERGENIC			
SNP_108049_A_949	NW_004517870.1	scaffold3094	949	CC	GG	GG	INTERGENIC			
SNP_108050_A_572	NW_004517871.1	scaffold3095	572	CC	TT	TT	INTERGENIC			
SNP_108051_A_684	NW_004517871.1	scaffold3095	684	TT	GG	GG	INTERGENIC			
SNP_108052_A_799	NW_004517871.1	scaffold3095	799	GG	CC	CC	INTERGENIC			
SNP_108053_A_837	NW_004517871.1	scaffold3095	837	GG	AA	AA	INTERGENIC			
SNP_108054_A_948	NW_004517871.1	scaffold3095	948	TT	AA	AA	INTERGENIC			
SNP_108055_A_1001	NW_004517871.1	scaffold3095	1001	AA	GG	GG	INTERGENIC			
SNP_108056_A_1111	NW_004517871.1	scaffold3095	1111	GG	CC	CC	INTERGENIC			
SNP_108057_A_1133	NW_004517871.1	scaffold3095	1133	AA	TT	TT	INTERGENIC			
SNP_108058_A_1357	NW_004517871.1	scaffold3095	1357	TT	CC	CC	INTERGENIC			
SNP_108059_A_14225	NW_004517871.1	scaffold3095	14225	CC	TT	TT	INTERGENIC			
SNP_108060_A_14246	NW_004517871.1	scaffold3095	14246	TT	CC	CC	INTERGENIC			
SNP_108061_A_14471	NW_004517871.1	scaffold3095	14471	AA	TT	TT	INTERGENIC			
SNP_108062_A_14528	NW_004517871.1	scaffold3095	14528	CC	TT	TT	INTERGENIC			
SNP_108063_A_14756	NW_004517871.1	scaffold3095	14756	AA	GG	GG	INTERGENIC			
SNP_108064_A_14761	NW_004517871.1	scaffold3095	14761	CC	AA	AA	INTERGENIC			
SNP_108065_A_14794	NW_004517871.1	scaffold3095	14794	GG	AA	AA	INTERGENIC			
SNP_108066_A_14807	NW_004517871.1	scaffold3095	14807	TT	CC	CC	INTERGENIC			
SNP_108067_A_14922	NW_004517871.1	scaffold3095	14922	AA	CC	CC	INTERGENIC			
SNP_108068_A_14968	NW_004517871.1	scaffold3095	14968	TT	AA	AA	INTERGENIC			
SNP_108069_A_15091	NW_004517871.1	scaffold3095	15091	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108070_A_15253	NW_004517871.1	scaffold3095	15253	GG	AA	AA	INTERGENIC			
SNP_108071_A_15290	NW_004517871.1	scaffold3095	15290	AA	CC	CC	INTERGENIC			
SNP_108072_A_15752	NW_004517871.1	scaffold3095	15752	GG	AA	AA	INTERGENIC			
SNP_108073_A_15776	NW_004517871.1	scaffold3095	15776	TT	CC	CC	INTERGENIC			
SNP_108074_A_15800	NW_004517871.1	scaffold3095	15800	TT	GG	GG	INTERGENIC			
SNP_108075_A_15946	NW_004517871.1	scaffold3095	15946	CC	GG	GG	INTERGENIC			
SNP_108076_A_5006	NW_004517873.1	scaffold3097	5006	CC	TT	TT	INTERGENIC			
SNP_108077_A_5061	NW_004517873.1	scaffold3097	5061	CC	AA	AA	INTERGENIC			
SNP_108078_A_5094	NW_004517873.1	scaffold3097	5094	TT	CC	CC	INTERGENIC			
SNP_108079_A_5183	NW_004517873.1	scaffold3097	5183	TT	GG	GG	INTERGENIC			
SNP_108080_A_5268	NW_004517873.1	scaffold3097	5268	AA	CC	CC	INTERGENIC			
SNP_108081_A_5295	NW_004517873.1	scaffold3097	5295	GG	AA	AA	INTERGENIC			
SNP_108082_A_6850	NW_004517873.1	scaffold3097	6850	GG	TT	TT	INTERGENIC			
SNP_108083_A_6934	NW_004517873.1	scaffold3097	6934	AA	GG	GG	INTERGENIC			
SNP_108084_A_7263	NW_004517873.1	scaffold3097	7263	GG	AA	AA	INTERGENIC			
SNP_108085_A_7309	NW_004517873.1	scaffold3097	7309	GG	AA	AA	INTERGENIC			
SNP_108086_A_7314	NW_004517873.1	scaffold3097	7314	GG	AA	AA	INTERGENIC			
SNP_108087_A_7367	NW_004517873.1	scaffold3097	7367	CC	TT	TT	INTERGENIC			
SNP_108088_A_7552	NW_004517873.1	scaffold3097	7552	GG	AA	AA	INTERGENIC			
SNP_108089_A_7630	NW_004517873.1	scaffold3097	7630	GG	AA	AA	INTERGENIC			
SNP_108090_A_7710	NW_004517873.1	scaffold3097	7710	TT	CC	CC	INTERGENIC			
SNP_108091_A_7724	NW_004517873.1	scaffold3097	7724	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108092_A_9858	NW_004517873.1	scaffold3097	9858	AA	GG	GG	INTERGENIC			
SNP_108093_A_10435	NW_004517873.1	scaffold3097	10435	CC	GG	GG	INTERGENIC			
SNP_108094_A_10610	NW_004517873.1	scaffold3097	10610	TT	GG	GG	INTERGENIC			
SNP_108095_A_10680	NW_004517873.1	scaffold3097	10680	GG	CC	CC	INTERGENIC			
SNP_108096_A_10687	NW_004517873.1	scaffold3097	10687	AA	CC	CC	INTERGENIC			
SNP_108097_A_11037	NW_004517873.1	scaffold3097	11037	GG	AA	AA	INTERGENIC			
SNP_108098_A_11287	NW_004517873.1	scaffold3097	11287	TT	GG	GG	INTERGENIC			
SNP_108099_A_11455	NW_004517873.1	scaffold3097	11455	TT	CC	CC	INTERGENIC			
SNP_108100_A_11474	NW_004517873.1	scaffold3097	11474	AA	CC	CC	INTERGENIC			
SNP_108101_A_1206	NW_004517876.1	scaffold3100	1206	GG	CC	CC	INTERGENIC			
SNP_108104_A_472	NW_004517879.1	scaffold3106	472	CC	TT	TT	INTERGENIC			
SNP_108105_A_526	NW_004517879.1	scaffold3106	526	TT	CC	CC	INTERGENIC			
SNP_108106_A_535	NW_004517879.1	scaffold3106	535	GG	AA	AA	INTERGENIC			
SNP_108107_A_538	NW_004517879.1	scaffold3106	538	AA	CC	CC	INTERGENIC			
SNP_108108_A_540	NW_004517879.1	scaffold3106	540	CC	TT	TT	INTERGENIC			
SNP_108109_A_698	NW_004517879.1	scaffold3106	698	AA	CC	CC	INTERGENIC			
SNP_108110_A_705	NW_004517879.1	scaffold3106	705	GG	AA	AA	INTERGENIC			
SNP_108111_A_722	NW_004517879.1	scaffold3106	722	GG	CC	CC	INTERGENIC			
SNP_108112_A_754	NW_004517879.1	scaffold3106	754	CC	AA	AA	INTERGENIC			
SNP_108113_A_815	NW_004517879.1	scaffold3106	815	AA	GG	GG	INTERGENIC			
SNP_108114_A_1197	NW_004517879.1	scaffold3106	1197	GG	TT	TT	INTERGENIC			
SNP_108116_A_6149	NW_004517882.1	scaffold3111	6149	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108117_A_6231	NW_004517882.1	scaffold3111	6231	AA	TT	TT	DRR	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108118_A_6296	NW_004517882.1	scaffold3111	6296	GG	AA	AA	DRR	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108119_A_6343	NW_004517882.1	scaffold3111	6343	CC	TT	TT	DRR	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108120_A_6433	NW_004517882.1	scaffold3111	6433	AA	TT	TT	DRR	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108121_A_6455	NW_004517882.1	scaffold3111	6455	GG	TT	TT	DRR	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108122_A_7883	NW_004517882.1	scaffold3111	7883	TT	CC	CC	NON_SYNONYMOUS_CODING	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108123_A_8026	NW_004517882.1	scaffold3111	8026	CC	AA	AA	INTRON	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108124_A_8078	NW_004517882.1	scaffold3111	8078	AA	GG	GG	INTRON	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108125_A_8121	NW_004517882.1	scaffold3111	8121	TT	CC	CC	INTRON	101508035	serine/arginine repetitive matrix protein 1-like
SNP_108126_A_2089	NW_004517884.1	scaffold3115	2089	AA	GG	GG	INTERGENIC		
SNP_108127_A_27702	NW_004517884.1	scaffold3115	27702	TT	AA	AA	INTERGENIC		
SNP_108128_A_27928	NW_004517884.1	scaffold3115	27928	AA	GG	GG	INTERGENIC		
SNP_108129_A_28063	NW_004517884.1	scaffold3115	28063	AA	GG	GG	INTERGENIC		
SNP_108130_A_28139	NW_004517884.1	scaffold3115	28139	TT	GG	GG	INTERGENIC		
SNP_108131_A_28270	NW_004517884.1	scaffold3115	28270	CC	GG	GG	INTERGENIC		
SNP_108133_A_47044	NW_004517884.1	scaffold3115	47044	GG	AA	AA	INTERGENIC		
SNP_108134_A_47086	NW_004517884.1	scaffold3115	47086	CC	AA	AA	INTERGENIC		
SNP_108135_A_47121	NW_004517884.1	scaffold3115	47121	GG	AA	AA	INTERGENIC		
SNP_108136_A_47158	NW_004517884.1	scaffold3115	47158	AA	TT	TT	INTERGENIC		
SNP_108137_A_48885	NW_004517884.1	scaffold3115	48885	CC	AA	AA	INTERGENIC		
SNP_108138_A_48892	NW_004517884.1	scaffold3115	48892	CC	TT	TT	INTERGENIC		
SNP_108139_A_52961	NW_004517884.1	scaffold3115	52961	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108141_A_61879	NW_004517884.1	scaffold3115	61879	CC	GG	GG	INTERGENIC			
SNP_108142_A_62021	NW_004517884.1	scaffold3115	62021	GG	AA	AA	INTERGENIC			
SNP_108143_A_62226	NW_004517884.1	scaffold3115	62226	AA	GG	GG	INTERGENIC			
SNP_108144_A_62572	NW_004517884.1	scaffold3115	62572	CC	TT	TT	INTERGENIC			
SNP_108148_A_63828	NW_004517884.1	scaffold3115	63828	CC	TT	TT	INTERGENIC			
SNP_108149_A_63876	NW_004517884.1	scaffold3115	63876	CC	AA	AA	INTERGENIC			
SNP_108150_A_63939	NW_004517884.1	scaffold3115	63939	TT	CC	CC	INTERGENIC			
SNP_108152_A_64037	NW_004517884.1	scaffold3115	64037	GG	TT	TT	INTERGENIC			
SNP_108153_A_65738	NW_004517884.1	scaffold3115	65738	GG	AA	AA	INTERGENIC			
SNP_108154_A_76995	NW_004517884.1	scaffold3115	76995	GG	AA	AA	INTERGENIC			
SNP_108155_A_77015	NW_004517884.1	scaffold3115	77015	TT	GG	GG	INTERGENIC			
SNP_108156_A_77055	NW_004517884.1	scaffold3115	77055	AA	TT	TT	INTERGENIC			
SNP_108157_A_77076	NW_004517884.1	scaffold3115	77076	TT	AA	AA	INTERGENIC			
SNP_108158_A_77235	NW_004517884.1	scaffold3115	77235	CC	TT	TT	INTERGENIC			
SNP_108159_A_83623	NW_004517884.1	scaffold3115	83623	CC	TT	TT	INTRON	101508980	40S ribosomal protein S8-2-like	
SNP_108161_A_23493	NW_004517885.1	scaffold3116	23493	TT	GG	GG	INTERGENIC			
SNP_108166_A_2015	NW_004517887.1	scaffold3118	2015	CC	AA	AA	INTERGENIC			
SNP_108167_A_3690	NW_004517887.1	scaffold3118	3690	TT	CC	CC	INTERGENIC			
SNP_108168_A_6824	NW_004517887.1	scaffold3118	6824	AA	GG	GG	INTERGENIC			
SNP_108169_A_6888	NW_004517887.1	scaffold3118	6888	AA	TT	TT	INTERGENIC			
SNP_108171_A_7895	NW_004517890.1	scaffold3121	7895	AA	CC	CC	INTRON	101509606	Unknown function	
SNP_108172_A_8063	NW_004517890.1	scaffold3121	8063	TT	CC	CC	INTRON	101509606	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108173_A_8064	NW_004517890.1	scaffold3121	8064	AA	CC	CC	INTRON	101509606	Unknown function
SNP_108174_A_8868	NW_004517890.1	scaffold3121	8868	CC	GG	GG	INTRON	101509606	Unknown function
SNP_108175_A_8883	NW_004517890.1	scaffold3121	8883	CC	TT	TT	INTRON	101509606	Unknown function
SNP_108176_A_8932	NW_004517890.1	scaffold3121	8932	TT	CC	CC	INTRON	101509606	Unknown function
SNP_108177_A_8942	NW_004517890.1	scaffold3121	8942	TT	AA	AA	INTRON	101509606	Unknown function
SNP_108178_A_8952	NW_004517890.1	scaffold3121	8952	GG	TT	TT	INTRON	101509606	Unknown function
SNP_108179_A_9080	NW_004517890.1	scaffold3121	9080	AA	TT	TT	INTRON	101509606	Unknown function
SNP_108180_A_9084	NW_004517890.1	scaffold3121	9084	GG	AA	AA	INTRON	101509606	Unknown function
SNP_108181_A_14294	NW_004517890.1	scaffold3121	14294	AA	GG	GG	INTERGENIC		
SNP_108183_A_3745	NW_004517892.1	scaffold3124	3745	GG	AA	AA	INTERGENIC		
SNP_108184_A_3919	NW_004517892.1	scaffold3124	3919	CC	TT	TT	INTERGENIC		
SNP_108185_A_4001	NW_004517892.1	scaffold3124	4001	GG	AA	AA	INTERGENIC		
SNP_108186_A_4020	NW_004517892.1	scaffold3124	4020	TT	CC	CC	INTERGENIC		
SNP_108187_A_4040	NW_004517892.1	scaffold3124	4040	CC	GG	GG	INTERGENIC		
SNP_108188_A_4058	NW_004517892.1	scaffold3124	4058	GG	TT	TT	INTERGENIC		
SNP_108189_A_4186	NW_004517892.1	scaffold3124	4186	TT	GG	GG	INTERGENIC		
SNP_108190_A_1759	NW_004517893.1	scaffold3125	1759	AA	TT	TT	INTERGENIC		
SNP_108191_A_20311	NW_004517894.1	scaffold3126	20311	AA	GG	GG	INTERGENIC		
SNP_108192_A_20327	NW_004517894.1	scaffold3126	20327	CC	TT	TT	INTERGENIC		
SNP_108193_A_20355	NW_004517894.1	scaffold3126	20355	AA	GG	GG	INTERGENIC		
SNP_108194_A_20360	NW_004517894.1	scaffold3126	20360	CC	TT	TT	INTERGENIC		
SNP_108195_A_20369	NW_004517894.1	scaffold3126	20369	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108196_A_20390	NW_004517894.1	scaffold3126	20390	CC	TT	TT	INTERGENIC			
SNP_108197_A_20399	NW_004517894.1	scaffold3126	20399	AA	GG	GG	INTERGENIC			
SNP_108198_A_20420	NW_004517894.1	scaffold3126	20420	AA	GG	GG	INTERGENIC			
SNP_108199_A_20704	NW_004517894.1	scaffold3126	20704	TT	CC	CC	INTERGENIC			
SNP_108200_A_83	NW_004517895.1	scaffold3127	83	TT	AA	AA	INTERGENIC			
SNP_108201_A_279	NW_004517895.1	scaffold3127	279	GG	TT	TT	INTERGENIC			
SNP_108202_A_349	NW_004517895.1	scaffold3127	349	TT	AA	AA	INTERGENIC			
SNP_108203_A_986	NW_004517895.1	scaffold3127	986	TT	CC	CC	INTERGENIC			
SNP_108204_A_1020	NW_004517895.1	scaffold3127	1020	AA	TT	TT	INTERGENIC			
SNP_108205_A_1060	NW_004517895.1	scaffold3127	1060	CC	TT	TT	INTERGENIC			
SNP_108206_A_2239	NW_004517895.1	scaffold3127	2239	GG	TT	TT	INTERGENIC			
SNP_108207_A_2774	NW_004517895.1	scaffold3127	2774	GG	CC	CC	INTERGENIC			
SNP_108208_A_2781	NW_004517895.1	scaffold3127	2781	CC	TT	TT	INTERGENIC			
SNP_108209_A_2892	NW_004517895.1	scaffold3127	2892	AA	CC	CC	INTERGENIC			
SNP_108210_A_3239	NW_004517895.1	scaffold3127	3239	AA	GG	GG	INTERGENIC			
SNP_108211_A_3240	NW_004517895.1	scaffold3127	3240	TT	AA	AA	INTERGENIC			
SNP_108212_A_3272	NW_004517895.1	scaffold3127	3272	CC	TT	TT	INTERGENIC			
SNP_108213_A_3579	NW_004517895.1	scaffold3127	3579	TT	GG	GG	INTERGENIC			
SNP_108214_A_3596	NW_004517895.1	scaffold3127	3596	CC	GG	GG	INTERGENIC			
SNP_108215_A_3647	NW_004517895.1	scaffold3127	3647	TT	GG	GG	INTERGENIC			
SNP_108216_A_3867	NW_004517895.1	scaffold3127	3867	AA	TT	TT	INTERGENIC			
SNP_108217_A_4088	NW_004517895.1	scaffold3127	4088	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108218_A_4140	NW_004517895.1	scaffold3127	4140	AA	CC	CC	INTERGENIC			
SNP_108220_A_8755	NW_004517895.1	scaffold3127	8755	CC	GG	GG	INTERGENIC			
SNP_108221_A_8765	NW_004517895.1	scaffold3127	8765	AA	TT	TT	INTERGENIC			
SNP_108222_A_8767	NW_004517895.1	scaffold3127	8767	TT	GG	GG	INTERGENIC			
SNP_108223_A_8774	NW_004517895.1	scaffold3127	8774	CC	TT	TT	INTERGENIC			
SNP_108225_A_8834	NW_004517895.1	scaffold3127	8834	GG	CC	CC	INTERGENIC			
SNP_108227_A_8880	NW_004517895.1	scaffold3127	8880	GG	AA	AA	INTERGENIC			
SNP_108228_A_8890	NW_004517895.1	scaffold3127	8890	TT	GG	GG	INTERGENIC			
SNP_108229_A_8984	NW_004517895.1	scaffold3127	8984	GG	AA	AA	INTERGENIC			
SNP_108230_A_9175	NW_004517895.1	scaffold3127	9175	AA	TT	TT	INTERGENIC			
SNP_108231_A_9484	NW_004517895.1	scaffold3127	9484	TT	CC	CC	INTERGENIC			
SNP_108232_A_9700	NW_004517895.1	scaffold3127	9700	AA	GG	GG	INTERGENIC			
SNP_108233_A_9838	NW_004517895.1	scaffold3127	9838	CC	AA	AA	INTERGENIC			
SNP_108234_A_9876	NW_004517895.1	scaffold3127	9876	TT	AA	AA	INTERGENIC			
SNP_108235_A_9878	NW_004517895.1	scaffold3127	9878	GG	TT	TT	INTERGENIC			
SNP_108236_A_9885	NW_004517895.1	scaffold3127	9885	AA	GG	GG	INTERGENIC			
SNP_108237_A_9919	NW_004517895.1	scaffold3127	9919	GG	CC	CC	INTERGENIC			
SNP_108238_A_11917	NW_004517895.1	scaffold3127	11917	AA	CC	CC	INTERGENIC			
SNP_108239_A_12016	NW_004517895.1	scaffold3127	12016	AA	CC	CC	INTERGENIC			
SNP_108240_A_12161	NW_004517895.1	scaffold3127	12161	AA	CC	CC	INTERGENIC			
SNP_108241_A_12170	NW_004517895.1	scaffold3127	12170	TT	GG	GG	INTERGENIC			
SNP_108242_A_12264	NW_004517895.1	scaffold3127	12264	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108243_A_12265	NW_004517895.1	scaffold3127	12265	TT	AA	AA	INTERGENIC			
SNP_108244_A_12743	NW_004517895.1	scaffold3127	12743	AA	CC	CC	INTERGENIC			
SNP_108245_A_12803	NW_004517895.1	scaffold3127	12803	TT	CC	CC	INTERGENIC			
SNP_108246_A_13086	NW_004517895.1	scaffold3127	13086	AA	GG	GG	INTERGENIC			
SNP_108247_A_15289	NW_004517895.1	scaffold3127	15289	TT	GG	GG	INTERGENIC			
SNP_108248_A_17738	NW_004517895.1	scaffold3127	17738	CC	GG	GG	INTERGENIC			
SNP_108249_A_17795	NW_004517895.1	scaffold3127	17795	GG	TT	TT	INTERGENIC			
SNP_108250_A_18969	NW_004517895.1	scaffold3127	18969	AA	GG	GG	INTERGENIC			
SNP_108251_A_19239	NW_004517895.1	scaffold3127	19239	TT	AA	AA	INTERGENIC			
SNP_108252_A_19245	NW_004517895.1	scaffold3127	19245	AA	GG	GG	INTERGENIC			
SNP_108253_A_19472	NW_004517895.1	scaffold3127	19472	CC	AA	AA	INTERGENIC			
SNP_108254_A_21867	NW_004517895.1	scaffold3127	21867	AA	CC	CC	INTERGENIC			
SNP_108255_A_22037	NW_004517895.1	scaffold3127	22037	CC	TT	TT	INTERGENIC			
SNP_108256_A_485	NW_004517899.1	scaffold3131	485	AA	CC	CC	INTERGENIC			
SNP_108257_A_534	NW_004517899.1	scaffold3131	534	GG	AA	AA	INTERGENIC			
SNP_108258_A_527	NW_004517902.1	scaffold3134	527	CC	TT	TT	INTERGENIC			
SNP_108259_A_4429	NW_004517902.1	scaffold3134	4429	CC	TT	TT	INTERGENIC			
SNP_108260_A_4455	NW_004517902.1	scaffold3134	4455	AA	TT	TT	INTERGENIC			
SNP_108261_A_4461	NW_004517902.1	scaffold3134	4461	AA	GG	GG	INTERGENIC			
SNP_108262_A_4515	NW_004517902.1	scaffold3134	4515	CC	TT	TT	INTERGENIC			
SNP_108263_A_4585	NW_004517902.1	scaffold3134	4585	AA	CC	CC	INTERGENIC			
SNP_108264_A_4805	NW_004517902.1	scaffold3134	4805	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108265_A_4821	NW_004517902.1	scaffold3134	4821	AA	CC	CC	INTERGENIC			
SNP_108266_A_5447	NW_004517902.1	scaffold3134	5447	TT	CC	CC	INTERGENIC			
SNP_108267_A_5522	NW_004517902.1	scaffold3134	5522	TT	GG	GG	INTERGENIC			
SNP_108268_A_5543	NW_004517902.1	scaffold3134	5543	TT	AA	AA	INTERGENIC			
SNP_108269_A_5544	NW_004517902.1	scaffold3134	5544	TT	AA	AA	INTERGENIC			
SNP_108270_A_5552	NW_004517902.1	scaffold3134	5552	AA	TT	TT	INTERGENIC			
SNP_108271_A_5591	NW_004517902.1	scaffold3134	5591	CC	AA	AA	INTERGENIC			
SNP_108272_A_5790	NW_004517902.1	scaffold3134	5790	TT	AA	AA	INTERGENIC			
SNP_108273_A_10893	NW_004517902.1	scaffold3134	10893	TT	AA	AA	INTERGENIC			
SNP_108274_A_12117	NW_004517902.1	scaffold3134	12117	AA	GG	GG	INTERGENIC			
SNP_108276_A_12518	NW_004517902.1	scaffold3134	12518	CC	AA	AA	INTERGENIC			
SNP_108277_A_12544	NW_004517902.1	scaffold3134	12544	AA	GG	GG	INTERGENIC			
SNP_108278_A_12559	NW_004517902.1	scaffold3134	12559	TT	GG	GG	INTERGENIC			
SNP_108279_A_12567	NW_004517902.1	scaffold3134	12567	TT	CC	CC	INTERGENIC			
SNP_108280_A_12682	NW_004517902.1	scaffold3134	12682	TT	CC	CC	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108281_A_12939	NW_004517902.1	scaffold3134	12939	AA	GG	GG	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108282_A_12955	NW_004517902.1	scaffold3134	12955	GG	AA	AA	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108283_A_12977	NW_004517902.1	scaffold3134	12977	CC	TT	TT	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108284_A_13012	NW_004517902.1	scaffold3134	13012	TT	CC	CC	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108285_A_13047	NW_004517902.1	scaffold3134	13047	GG	AA	AA	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108286_A_13263	NW_004517902.1	scaffold3134	13263	AA	GG	GG	DRR	101510260	aspartic proteinase-like protein 2	
SNP_108287_A_13535	NW_004517902.1	scaffold3134	13535	CC	AA	AA	DRR	101510260	aspartic proteinase-like protein 2	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108288_A_13544	NW_004517902.1	scaffold3134	13544	AA	GG	GG	DRR	101510260	aspartic proteinase-like protein 2
SNP_108289_A_13549	NW_004517902.1	scaffold3134	13549	TT	CC	CC	DRR	101510260	aspartic proteinase-like protein 2
SNP_108291_A_13683	NW_004517902.1	scaffold3134	13683	AA	GG	GG	DRR	101510260	aspartic proteinase-like protein 2
SNP_108292_A_13688	NW_004517902.1	scaffold3134	13688	TT	CC	CC	DRR	101510260	aspartic proteinase-like protein 2
SNP_108293_A_13697	NW_004517902.1	scaffold3134	13697	AA	TT	TT	DRR	101510260	aspartic proteinase-like protein 2
SNP_108294_A_13925	NW_004517902.1	scaffold3134	13925	AA	TT	TT	INTRON	101510260	aspartic proteinase-like protein 2
SNP_108295_A_14024	NW_004517902.1	scaffold3134	14024	AA	GG	GG	SYNONYMOUS_CODING	101510260	aspartic proteinase-like protein 2
SNP_108296_A_14042	NW_004517902.1	scaffold3134	14042	AA	GG	GG	SYNONYMOUS_CODING	101510260	aspartic proteinase-like protein 2
SNP_108297_A_14470	NW_004517902.1	scaffold3134	14470	GG	CC	CC	SYNONYMOUS_CODING	101510260	aspartic proteinase-like protein 2
SNP_108298_A_14681	NW_004517902.1	scaffold3134	14681	GG	AA	AA	SYNONYMOUS_CODING	101510260	aspartic proteinase-like protein 2
SNP_108300_A_15510	NW_004517902.1	scaffold3134	15510	TT	CC	CC	INTRON	101510260	aspartic proteinase-like protein 2
SNP_108301_A_15554	NW_004517902.1	scaffold3134	15554	TT	AA	AA	INTRON	101510260	aspartic proteinase-like protein 2
SNP_108302_A_38712	NW_004517902.1	scaffold3134	38712	TT	GG	GG	INTERGENIC		
SNP_108303_A_66975	NW_004517902.1	scaffold3134	66975	AA	TT	TT	INTERGENIC		
SNP_108304_A_67007	NW_004517902.1	scaffold3134	67007	TT	CC	CC	INTERGENIC		
SNP_108305_A_67090	NW_004517902.1	scaffold3134	67090	TT	CC	CC	INTERGENIC		
SNP_108306_A_67103	NW_004517902.1	scaffold3134	67103	TT	GG	GG	INTERGENIC		
SNP_108307_A_67216	NW_004517902.1	scaffold3134	67216	TT	CC	CC	INTERGENIC		
SNP_108308_A_67270	NW_004517902.1	scaffold3134	67270	CC	AA	AA	INTERGENIC		
SNP_108309_A_67316	NW_004517902.1	scaffold3134	67316	CC	AA	AA	INTERGENIC		
SNP_108310_A_67387	NW_004517902.1	scaffold3134	67387	AA	CC	CC	INTERGENIC		
SNP_108311_A_67399	NW_004517902.1	scaffold3134	67399	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108312_A_67402	NW_004517902.1	scaffold3134	67402	AA	CC	CC	INTERGENIC			
SNP_108313_A_76268	NW_004517902.1	scaffold3134	76268	GG	TT	TT	INTERGENIC			
SNP_108314_A_76292	NW_004517902.1	scaffold3134	76292	AA	GG	GG	INTERGENIC			
SNP_108315_A_80617	NW_004517902.1	scaffold3134	80617	AA	CC	CC	INTERGENIC			
SNP_108318_A_4815	NW_004517903.1	scaffold3135	4815	GG	AA	AA	INTERGENIC			
SNP_108319_A_988	NW_004517904.1	scaffold3136	988	GG	AA	AA	INTERGENIC			
SNP_108321_A_965	NW_004517907.1	scaffold3139	965	TT	CC	CC	INTERGENIC			
SNP_108322_A_966	NW_004517907.1	scaffold3139	966	GG	AA	AA	INTERGENIC			
SNP_108323_A_986	NW_004517907.1	scaffold3139	986	TT	GG	GG	INTERGENIC			
SNP_108324_A_594	NW_004517913.1	scaffold3147	594	GG	TT	TT	INTERGENIC			
SNP_108325_A_599	NW_004517913.1	scaffold3147	599	GG	AA	AA	INTERGENIC			
SNP_108326_A_4540	NW_004517914.1	scaffold3148	4540	GG	CC	CC	INTERGENIC			
SNP_108327_A_4561	NW_004517914.1	scaffold3148	4561	AA	CC	CC	INTERGENIC			
SNP_108328_A_4562	NW_004517914.1	scaffold3148	4562	TT	AA	AA	INTERGENIC			
SNP_108329_A_4565	NW_004517914.1	scaffold3148	4565	GG	AA	AA	INTERGENIC			
SNP_108330_A_2489	NW_004517915.1	scaffold3149	2489	AA	TT	TT	INTERGENIC			
SNP_108331_A_3498	NW_004517915.1	scaffold3149	3498	GG	AA	AA	INTERGENIC			
SNP_108332_A_3576	NW_004517915.1	scaffold3149	3576	CC	AA	AA	INTERGENIC			
SNP_108333_A_3867	NW_004517915.1	scaffold3149	3867	TT	AA	AA	INTERGENIC			
SNP_108334_A_3882	NW_004517915.1	scaffold3149	3882	AA	GG	GG	INTERGENIC			
SNP_108335_A_4800	NW_004517915.1	scaffold3149	4800	TT	CC	CC	INTERGENIC			
SNP_108336_A_4807	NW_004517915.1	scaffold3149	4807	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108337_A_4861	NW_004517915.1	scaffold3149	4861	CC	AA	AA	INTERGENIC			
SNP_108338_A_5048	NW_004517915.1	scaffold3149	5048	CC	GG	GG	INTERGENIC			
SNP_108339_A_5143	NW_004517915.1	scaffold3149	5143	TT	GG	GG	INTERGENIC			
SNP_108340_A_5152	NW_004517915.1	scaffold3149	5152	GG	AA	AA	INTERGENIC			
SNP_108341_A_5157	NW_004517915.1	scaffold3149	5157	GG	AA	CC	INTERGENIC			
SNP_108342_A_5162	NW_004517915.1	scaffold3149	5162	AA	GG	GG	INTERGENIC			
SNP_108343_A_5214	NW_004517915.1	scaffold3149	5214	TT	CC	CC	INTERGENIC			
SNP_108344_A_5283	NW_004517915.1	scaffold3149	5283	AA	GG	GG	INTERGENIC			
SNP_108345_A_5291	NW_004517915.1	scaffold3149	5291	TT	CC	CC	INTERGENIC			
SNP_108346_A_5317	NW_004517915.1	scaffold3149	5317	CC	TT	TT	INTERGENIC			
SNP_108347_A_5434	NW_004517915.1	scaffold3149	5434	TT	GG	GG	INTERGENIC			
SNP_108348_A_5536	NW_004517915.1	scaffold3149	5536	TT	AA	AA	INTERGENIC			
SNP_108349_A_5570	NW_004517915.1	scaffold3149	5570	TT	CC	CC	INTERGENIC			
SNP_108350_A_6454	NW_004517915.1	scaffold3149	6454	CC	AA	AA	INTERGENIC			
SNP_108351_A_9130	NW_004517915.1	scaffold3149	9130	AA	TT	TT	INTERGENIC			
SNP_108352_A_9184	NW_004517915.1	scaffold3149	9184	TT	GG	GG	INTERGENIC			
SNP_108353_A_9251	NW_004517915.1	scaffold3149	9251	CC	AA	AA	INTERGENIC			
SNP_108354_A_9283	NW_004517915.1	scaffold3149	9283	GG	AA	AA	INTERGENIC			
SNP_108355_A_9450	NW_004517915.1	scaffold3149	9450	CC	TT	TT	INTERGENIC			
SNP_108356_A_9487	NW_004517915.1	scaffold3149	9487	AA	TT	TT	INTERGENIC			
SNP_108357_A_9513	NW_004517915.1	scaffold3149	9513	AA	GG	GG	INTERGENIC			
SNP_108359_A_9736	NW_004517915.1	scaffold3149	9736	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108360_A_9787	NW_004517915.1	scaffold3149	9787	CC	GG	GG	INTERGENIC			
SNP_108361_A_9850	NW_004517915.1	scaffold3149	9850	TT	GG	GG	INTERGENIC			
SNP_108362_A_9870	NW_004517915.1	scaffold3149	9870	AA	GG	GG	INTERGENIC			
SNP_108363_A_9945	NW_004517915.1	scaffold3149	9945	CC	TT	TT	INTERGENIC			
SNP_108364_A_9960	NW_004517915.1	scaffold3149	9960	CC	TT	TT	INTERGENIC			
SNP_108365_A_10184	NW_004517915.1	scaffold3149	10184	AA	CC	CC	INTERGENIC			
SNP_108366_A_10335	NW_004517915.1	scaffold3149	10335	AA	GG	GG	INTERGENIC			
SNP_108367_A_10525	NW_004517915.1	scaffold3149	10525	GG	AA	AA	INTERGENIC			
SNP_108368_A_10527	NW_004517915.1	scaffold3149	10527	TT	CC	CC	INTERGENIC			
SNP_108369_A_10544	NW_004517915.1	scaffold3149	10544	TT	AA	AA	INTERGENIC			
SNP_108370_A_351	NW_004517917.1	scaffold3155	351	AA	GG	GG	INTERGENIC			
SNP_108371_A_367	NW_004517917.1	scaffold3155	367	GG	AA	AA	INTERGENIC			
SNP_108372_A_489	NW_004517917.1	scaffold3155	489	TT	AA	GG	INTERGENIC			
SNP_108373_A_583	NW_004517917.1	scaffold3155	583	AA	GG	GG	INTERGENIC			
SNP_108374_A_5550	NW_004517917.1	scaffold3155	5550	CC	AA	AA	DRR	101511428	Unknown function	
SNP_108375_A_5558	NW_004517917.1	scaffold3155	5558	TT	CC	CC	DRR	101511428	Unknown function	
SNP_108376_A_5559	NW_004517917.1	scaffold3155	5559	GG	CC	CC	DRR	101511428	Unknown function	
SNP_108377_A_5579	NW_004517917.1	scaffold3155	5579	TT	CC	CC	DRR	101511428	Unknown function	
SNP_108378_A_5580	NW_004517917.1	scaffold3155	5580	GG	CC	CC	DRR	101511428	Unknown function	
SNP_108379_A_5609	NW_004517917.1	scaffold3155	5609	CC	GG	GG	DRR	101511428	Unknown function	
SNP_108380_A_5610	NW_004517917.1	scaffold3155	5610	TT	CC	CC	DRR	101511428	Unknown function	
SNP_108382_A_5697	NW_004517917.1	scaffold3155	5697	GG	TT	TT	DRR	101511428	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108383_A_5735	NW_004517917.1	scaffold3155	5735	AA	GG	GG	DRR	101511428	Unknown function
SNP_108384_A_5748	NW_004517917.1	scaffold3155	5748	AA	GG	GG	DRR	101511428	Unknown function
SNP_108385_A_5773	NW_004517917.1	scaffold3155	5773	AA	GG	GG	DRR	101511428	Unknown function
SNP_108387_A_1920	NW_004517918.1	scaffold3156	1920	CC	GG	GG	INTERGENIC		
SNP_108388_A_1660	NW_004517920.1	scaffold3159	1660	AA	TT	TT	INTERGENIC		
SNP_108389_A_1748	NW_004517920.1	scaffold3159	1748	TT	CC	CC	INTERGENIC		
SNP_108390_A_5878	NW_004517921.1	scaffold3160	5878	TT	CC	CC	INTERGENIC		
SNP_108391_A_5898	NW_004517921.1	scaffold3160	5898	CC	TT	TT	INTERGENIC		
SNP_108392_A_5938	NW_004517921.1	scaffold3160	5938	GG	TT	TT	INTERGENIC		
SNP_108393_A_5971	NW_004517921.1	scaffold3160	5971	GG	AA	AA	INTERGENIC		
SNP_108394_A_5978	NW_004517921.1	scaffold3160	5978	AA	GG	GG	INTERGENIC		
SNP_108395_A_6023	NW_004517921.1	scaffold3160	6023	GG	CC	CC	INTERGENIC		
SNP_108396_A_6153	NW_004517921.1	scaffold3160	6153	CC	TT	TT	INTERGENIC		
SNP_108397_A_7730	NW_004517921.1	scaffold3160	7730	GG	TT	TT	INTERGENIC		
SNP_108398_A_7914	NW_004517921.1	scaffold3160	7914	GG	AA	AA	INTERGENIC		
SNP_108399_A_7946	NW_004517921.1	scaffold3160	7946	GG	AA	AA	INTERGENIC		
SNP_108400_A_7965	NW_004517921.1	scaffold3160	7965	TT	AA	AA	INTERGENIC		
SNP_108401_A_7996	NW_004517921.1	scaffold3160	7996	AA	TT	TT	INTERGENIC		
SNP_108402_A_7997	NW_004517921.1	scaffold3160	7997	AA	TT	TT	INTERGENIC		
SNP_108403_A_7999	NW_004517921.1	scaffold3160	7999	TT	GG	GG	INTERGENIC		
SNP_108404_A_8075	NW_004517921.1	scaffold3160	8075	AA	GG	GG	INTERGENIC		
SNP_108405_A_8342	NW_004517921.1	scaffold3160	8342	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108406_A_8396	NW_004517921.1	scaffold3160	8396	AA	GG	GG	INTERGENIC			
SNP_108407_A_8607	NW_004517921.1	scaffold3160	8607	AA	TT	TT	INTERGENIC			
SNP_108408_A_8763	NW_004517921.1	scaffold3160	8763	CC	GG	GG	INTERGENIC			
SNP_108409_A_8841	NW_004517921.1	scaffold3160	8841	CC	TT	TT	INTERGENIC			
SNP_108410_A_8852	NW_004517921.1	scaffold3160	8852	CC	TT	TT	INTERGENIC			
SNP_108411_A_8896	NW_004517921.1	scaffold3160	8896	GG	CC	CC	INTERGENIC			
SNP_108412_A_8965	NW_004517921.1	scaffold3160	8965	GG	CC	CC	INTERGENIC			
SNP_108413_A_8991	NW_004517921.1	scaffold3160	8991	TT	CC	CC	INTERGENIC			
SNP_108414_A_9066	NW_004517921.1	scaffold3160	9066	TT	GG	GG	INTERGENIC			
SNP_108415_A_9093	NW_004517921.1	scaffold3160	9093	GG	AA	AA	INTERGENIC			
SNP_108416_A_9267	NW_004517921.1	scaffold3160	9267	GG	AA	AA	INTERGENIC			
SNP_108417_A_9321	NW_004517921.1	scaffold3160	9321	GG	CC	CC	INTERGENIC			
SNP_108418_A_9361	NW_004517921.1	scaffold3160	9361	TT	GG	GG	INTERGENIC			
SNP_108419_A_9423	NW_004517921.1	scaffold3160	9423	AA	CC	CC	INTERGENIC			
SNP_108420_A_9454	NW_004517921.1	scaffold3160	9454	CC	AA	AA	INTERGENIC			
SNP_108421_A_9495	NW_004517921.1	scaffold3160	9495	TT	CC	CC	INTERGENIC			
SNP_108422_A_9522	NW_004517921.1	scaffold3160	9522	TT	CC	CC	INTERGENIC			
SNP_108423_A_9760	NW_004517921.1	scaffold3160	9760	CC	TT	TT	INTERGENIC			
SNP_108424_A_9778	NW_004517921.1	scaffold3160	9778	CC	TT	TT	INTERGENIC			
SNP_108425_A_9790	NW_004517921.1	scaffold3160	9790	AA	GG	GG	INTERGENIC			
SNP_108427_A_9844	NW_004517921.1	scaffold3160	9844	AA	GG	GG	INTERGENIC			
SNP_108428_A_9864	NW_004517921.1	scaffold3160	9864	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108429_A_9895	NW_004517921.1	scaffold3160	9895	AA	GG	GG	INTERGENIC			
SNP_108430_A_9947	NW_004517921.1	scaffold3160	9947	AA	GG	GG	INTERGENIC			
SNP_108431_A_10033	NW_004517921.1	scaffold3160	10033	AA	CC	CC	INTERGENIC			
SNP_108432_A_10075	NW_004517921.1	scaffold3160	10075	TT	AA	AA	INTERGENIC			
SNP_108433_A_10166	NW_004517921.1	scaffold3160	10166	AA	GG	GG	INTERGENIC			
SNP_108434_A_10196	NW_004517921.1	scaffold3160	10196	AA	GG	GG	INTERGENIC			
SNP_108435_A_10232	NW_004517921.1	scaffold3160	10232	TT	AA	AA	INTERGENIC			
SNP_108436_A_10349	NW_004517921.1	scaffold3160	10349	CC	TT	TT	INTERGENIC			
SNP_108437_A_10361	NW_004517921.1	scaffold3160	10361	CC	AA	AA	INTERGENIC			
SNP_108438_A_10408	NW_004517921.1	scaffold3160	10408	AA	GG	GG	INTERGENIC			
SNP_108440_A_10588	NW_004517921.1	scaffold3160	10588	TT	CC	CC	INTERGENIC			
SNP_108441_A_10633	NW_004517921.1	scaffold3160	10633	CC	TT	TT	INTERGENIC			
SNP_108442_A_10695	NW_004517921.1	scaffold3160	10695	TT	AA	AA	INTERGENIC			
SNP_108443_A_10754	NW_004517921.1	scaffold3160	10754	TT	GG	GG	INTERGENIC			
SNP_108444_A_11035	NW_004517921.1	scaffold3160	11035	GG	TT	TT	INTERGENIC			
SNP_108445_A_11583	NW_004517921.1	scaffold3160	11583	GG	AA	AA	INTERGENIC			
SNP_108446_A_22945	NW_004517921.1	scaffold3160	22945	TT	GG	GG	INTERGENIC			
SNP_108447_A_22966	NW_004517921.1	scaffold3160	22966	CC	TT	TT	INTERGENIC			
SNP_108448_A_830	NW_004517922.1	scaffold3161	830	CC	AA	AA	INTERGENIC			
SNP_108449_A_909	NW_004517922.1	scaffold3161	909	TT	AA	AA	INTERGENIC			
SNP_108450_A_4269	NW_004517922.1	scaffold3161	4269	TT	AA	AA	INTERGENIC			
SNP_108451_A_5799	NW_004517922.1	scaffold3161	5799	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108452_A_5813	NW_004517922.1	scaffold3161	5813	TT	CC	CC	INTERGENIC			
SNP_108453_A_369	NW_004517923.1	scaffold3163	369	TT	AA	AA	INTERGENIC			
SNP_108454_A_455	NW_004517923.1	scaffold3163	455	TT	CC	CC	INTERGENIC			
SNP_108455_A_468	NW_004517923.1	scaffold3163	468	CC	TT	TT	INTERGENIC			
SNP_108456_A_582	NW_004517923.1	scaffold3163	582	CC	TT	TT	INTERGENIC			
SNP_108457_A_583	NW_004517923.1	scaffold3163	583	GG	AA	AA	INTERGENIC			
SNP_108458_A_586	NW_004517923.1	scaffold3163	586	GG	AA	AA	INTERGENIC			
SNP_108459_A_614	NW_004517923.1	scaffold3163	614	GG	TT	TT	INTERGENIC			
SNP_108460_A_670	NW_004517923.1	scaffold3163	670	AA	GG	GG	INTERGENIC			
SNP_108461_A_686	NW_004517923.1	scaffold3163	686	CC	TT	TT	INTERGENIC			
SNP_108462_A_705	NW_004517923.1	scaffold3163	705	AA	GG	GG	INTERGENIC			
SNP_108463_A_973	NW_004517923.1	scaffold3163	973	CC	TT	TT	INTERGENIC			
SNP_108464_A_1083	NW_004517923.1	scaffold3163	1083	AA	CC	CC	INTERGENIC			
SNP_108465_A_1111	NW_004517923.1	scaffold3163	1111	AA	TT	TT	INTERGENIC			
SNP_108467_A_6894	NW_004517924.1	scaffold3164	6894	AA	GG	GG	INTERGENIC			
SNP_108468_A_64	NW_004517926.1	scaffold3168	64	GG	AA	AA	INTERGENIC			
SNP_108469_A_110	NW_004517926.1	scaffold3168	110	AA	CC	CC	INTERGENIC			
SNP_108470_A_307	NW_004517926.1	scaffold3168	307	CC	TT	TT	INTERGENIC			
SNP_108471_A_497	NW_004517926.1	scaffold3168	497	AA	GG	GG	INTERGENIC			
SNP_108472_A_524	NW_004517926.1	scaffold3168	524	AA	TT	TT	INTERGENIC			
SNP_108473_A_606	NW_004517926.1	scaffold3168	606	AA	GG	GG	INTERGENIC			
SNP_108474_A_689	NW_004517926.1	scaffold3168	689	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108475_A_705	NW_004517926.1	scaffold3168	705	TT	CC	CC	INTERGENIC			
SNP_108476_A_753	NW_004517926.1	scaffold3168	753	TT	AA	AA	INTERGENIC			
SNP_108477_A_812	NW_004517926.1	scaffold3168	812	TT	CC	CC	INTERGENIC			
SNP_108478_A_976	NW_004517926.1	scaffold3168	976	CC	TT	TT	INTERGENIC			
SNP_108479_A_1364	NW_004517926.1	scaffold3168	1364	TT	AA	AA	INTERGENIC			
SNP_108480_A_1427	NW_004517926.1	scaffold3168	1427	AA	GG	GG	INTERGENIC			
SNP_108481_A_1459	NW_004517926.1	scaffold3168	1459	CC	AA	AA	INTERGENIC			
SNP_108482_A_1487	NW_004517926.1	scaffold3168	1487	TT	CC	CC	INTERGENIC			
SNP_108483_A_1489	NW_004517926.1	scaffold3168	1489	TT	CC	CC	INTERGENIC			
SNP_108484_A_1507	NW_004517926.1	scaffold3168	1507	AA	GG	GG	INTERGENIC			
SNP_108485_A_1717	NW_004517926.1	scaffold3168	1717	CC	TT	TT	INTERGENIC			
SNP_108486_A_1829	NW_004517926.1	scaffold3168	1829	TT	CC	CC	INTERGENIC			
SNP_108487_A_1871	NW_004517926.1	scaffold3168	1871	AA	TT	TT	INTERGENIC			
SNP_108488_A_1872	NW_004517926.1	scaffold3168	1872	TT	CC	CC	INTERGENIC			
SNP_108489_A_1887	NW_004517926.1	scaffold3168	1887	CC	TT	TT	INTERGENIC			
SNP_108490_A_1895	NW_004517926.1	scaffold3168	1895	GG	AA	AA	INTERGENIC			
SNP_108491_A_1907	NW_004517926.1	scaffold3168	1907	CC	TT	TT	INTERGENIC			
SNP_108492_A_2016	NW_004517926.1	scaffold3168	2016	AA	GG	GG	INTERGENIC			
SNP_108493_A_2036	NW_004517926.1	scaffold3168	2036	CC	AA	AA	INTERGENIC			
SNP_108494_A_12764	NW_004517928.1	scaffold3170	12764	TT	GG	GG	INTERGENIC			
SNP_108495_A_16450	NW_004517928.1	scaffold3170	16450	TT	GG	GG	INTERGENIC			
SNP_108496_A_17014	NW_004517928.1	scaffold3170	17014	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108497_A_32686	NW_004517928.1	scaffold3170	32686	TT	CC	CC	INTERGENIC			
SNP_108498_A_32687	NW_004517928.1	scaffold3170	32687	TT	AA	AA	INTERGENIC			
SNP_108500_A_72889	NW_004517928.1	scaffold3170	72889	TT	AA	AA	INTERGENIC			
SNP_108501_A_72971	NW_004517928.1	scaffold3170	72971	AA	GG	GG	INTERGENIC			
SNP_108502_A_73006	NW_004517928.1	scaffold3170	73006	TT	GG	GG	INTERGENIC			
SNP_108503_A_73345	NW_004517928.1	scaffold3170	73345	AA	CC	CC	INTERGENIC			
SNP_108504_A_73737	NW_004517928.1	scaffold3170	73737	CC	TT	TT	INTERGENIC			
SNP_108505_A_76890	NW_004517928.1	scaffold3170	76890	GG	AA	AA	INTERGENIC			
SNP_108506_A_77463	NW_004517928.1	scaffold3170	77463	CC	TT	TT	INTERGENIC			
SNP_108507_A_119300	NW_004517928.1	scaffold3170	119300	CC	TT	TT	INTERGENIC			
SNP_108508_A_121522	NW_004517928.1	scaffold3170	121522	CC	TT	TT	INTERGENIC			
SNP_108509_A_162141	NW_004517928.1	scaffold3170	162141	GG	AA	AA	DRR	101488629	agamous-like MADS-box protein AGL62	
SNP_108510_A_182675	NW_004517928.1	scaffold3170	182675	AA	GG	GG	INTERGENIC			
SNP_108511_A_191821	NW_004517928.1	scaffold3170	191821	CC	TT	TT	INTERGENIC			
SNP_108512_A_197458	NW_004517928.1	scaffold3170	197458	AA	GG	GG	INTERGENIC			
SNP_108513_A_204936	NW_004517928.1	scaffold3170	204936	AA	GG	GG	INTERGENIC			
SNP_108514_A_205077	NW_004517928.1	scaffold3170	205077	AA	GG	GG	INTERGENIC			
SNP_108515_A_205109	NW_004517928.1	scaffold3170	205109	GG	TT	TT	INTERGENIC			
SNP_108517_A_205208	NW_004517928.1	scaffold3170	205208	CC	TT	TT	INTERGENIC			
SNP_108518_A_205210	NW_004517928.1	scaffold3170	205210	AA	CC	CC	INTERGENIC			
SNP_108519_A_205218	NW_004517928.1	scaffold3170	205218	TT	AA	AA	INTERGENIC			
SNP_108520_A_205240	NW_004517928.1	scaffold3170	205240	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108521_A_205251	NW_004517928.1	scaffold3170	205251	TT	CC	CC	INTERGENIC			
SNP_108522_A_205266	NW_004517928.1	scaffold3170	205266	TT	CC	CC	INTERGENIC			
SNP_108523_A_212102	NW_004517928.1	scaffold3170	212102	GG	CC	CC	INTERGENIC			
SNP_108525_A_1240	NW_004517929.1	scaffold3171	1240	AA	GG	GG	INTERGENIC			
SNP_108526_A_1258	NW_004517929.1	scaffold3171	1258	TT	AA	AA	INTERGENIC			
SNP_108527_A_1998	NW_004517929.1	scaffold3171	1998	AA	GG	GG	INTERGENIC			
SNP_108528_A_2006	NW_004517929.1	scaffold3171	2006	TT	GG	GG	INTERGENIC			
SNP_108529_A_2103	NW_004517929.1	scaffold3171	2103	GG	TT	TT	INTERGENIC			
SNP_108530_A_2148	NW_004517929.1	scaffold3171	2148	GG	AA	AA	INTERGENIC			
SNP_108531_A_2157	NW_004517929.1	scaffold3171	2157	AA	GG	GG	INTERGENIC			
SNP_108532_A_2180	NW_004517929.1	scaffold3171	2180	AA	GG	GG	INTERGENIC			
SNP_108533_A_2235	NW_004517929.1	scaffold3171	2235	GG	AA	AA	INTERGENIC			
SNP_108534_A_2298	NW_004517929.1	scaffold3171	2298	CC	GG	GG	INTERGENIC			
SNP_108535_A_2375	NW_004517929.1	scaffold3171	2375	CC	TT	TT	INTERGENIC			
SNP_108536_A_2391	NW_004517929.1	scaffold3171	2391	GG	TT	TT	INTERGENIC			
SNP_108538_A_2435	NW_004517929.1	scaffold3171	2435	AA	TT	TT	INTERGENIC			
SNP_108539_A_2441	NW_004517929.1	scaffold3171	2441	TT	GG	GG	INTERGENIC			
SNP_108541_A_2765	NW_004517929.1	scaffold3171	2765	TT	GG	GG	INTERGENIC			
SNP_108542_A_2770	NW_004517929.1	scaffold3171	2770	TT	AA	AA	INTERGENIC			
SNP_108543_A_64	NW_004517930.1	scaffold3172	64	AA	GG	GG	INTERGENIC			
SNP_108544_A_66	NW_004517930.1	scaffold3172	66	TT	CC	CC	INTERGENIC			
SNP_108545_A_359	NW_004517930.1	scaffold3172	359	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108546_A_7239	NW_004517932.1	scaffold3174	7239	TT	AA	AA	INTERGENIC			
SNP_108547_A_7246	NW_004517932.1	scaffold3174	7246	GG	TT	TT	INTERGENIC			
SNP_108548_A_11583	NW_004517933.1	scaffold3175	11583	GG	AA	AA	INTERGENIC			
SNP_108549_A_11651	NW_004517933.1	scaffold3175	11651	AA	GG	GG	INTERGENIC			
SNP_108551_A_12258	NW_004517933.1	scaffold3175	12258	AA	GG	GG	INTERGENIC			
SNP_108552_A_17099	NW_004517933.1	scaffold3175	17099	AA	GG	GG	INTERGENIC			
SNP_108553_A_17333	NW_004517933.1	scaffold3175	17333	AA	CC	CC	INTERGENIC			
SNP_108554_A_17346	NW_004517933.1	scaffold3175	17346	TT	CC	CC	INTERGENIC			
SNP_108555_A_18895	NW_004517933.1	scaffold3175	18895	CC	TT	TT	INTERGENIC			
SNP_108556_A_18902	NW_004517933.1	scaffold3175	18902	CC	AA	AA	INTERGENIC			
SNP_108557_A_18914	NW_004517933.1	scaffold3175	18914	TT	CC	CC	INTERGENIC			
SNP_108558_A_18920	NW_004517933.1	scaffold3175	18920	GG	AA	AA	INTERGENIC			
SNP_108559_A_19002	NW_004517933.1	scaffold3175	19002	AA	GG	GG	INTERGENIC			
SNP_108560_A_19021	NW_004517933.1	scaffold3175	19021	AA	CC	CC	INTERGENIC			
SNP_108561_A_19116	NW_004517933.1	scaffold3175	19116	TT	CC	CC	INTERGENIC			
SNP_108562_A_1325	NW_004517934.1	scaffold3176	1325	TT	GG	GG	INTERGENIC			
SNP_108563_A_1373	NW_004517934.1	scaffold3176	1373	AA	GG	GG	INTERGENIC			
SNP_108564_A_1606	NW_004517934.1	scaffold3176	1606	GG	CC	CC	INTERGENIC			
SNP_108565_A_941	NW_004517939.1	scaffold3181	941	AA	TT	TT	INTERGENIC			
SNP_108566_A_430	NW_004517941.1	scaffold3183	430	CC	TT	TT	INTERGENIC			
SNP_108567_A_466	NW_004517941.1	scaffold3183	466	AA	TT	TT	INTERGENIC			
SNP_108568_A_2632	NW_004517943.1	scaffold3187	2632	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108569_A_2684	NW_004517943.1	scaffold3187	2684	TT	GG	GG	INTERGENIC			
SNP_108570_A_2700	NW_004517943.1	scaffold3187	2700	AA	GG	GG	INTERGENIC			
SNP_108571_A_5697	NW_004517943.1	scaffold3187	5697	CC	TT	TT	INTERGENIC			
SNP_108572_A_6031	NW_004517943.1	scaffold3187	6031	AA	GG	GG	INTERGENIC			
SNP_108573_A_6210	NW_004517943.1	scaffold3187	6210	GG	TT	TT	INTERGENIC			
SNP_108574_A_7304	NW_004517943.1	scaffold3187	7304	CC	TT	TT	INTERGENIC			
SNP_108575_A_7585	NW_004517943.1	scaffold3187	7585	GG	AA	AA	INTERGENIC			
SNP_108576_A_9264	NW_004517943.1	scaffold3187	9264	GG	AA	AA	INTERGENIC			
SNP_108577_A_24881	NW_004517947.1	scaffold3191	24881	TT	CC	CC	INTERGENIC			
SNP_108578_A_25148	NW_004517947.1	scaffold3191	25148	GG	TT	TT	INTERGENIC			
SNP_108579_A_25158	NW_004517947.1	scaffold3191	25158	AA	GG	GG	INTERGENIC			
SNP_108580_A_25293	NW_004517947.1	scaffold3191	25293	AA	GG	GG	INTERGENIC			
SNP_108581_A_25423	NW_004517947.1	scaffold3191	25423	TT	AA	AA	INTERGENIC			
SNP_108582_A_25430	NW_004517947.1	scaffold3191	25430	AA	CC	CC	INTERGENIC			
SNP_108583_A_25477	NW_004517947.1	scaffold3191	25477	TT	AA	AA	INTERGENIC			
SNP_108584_A_25482	NW_004517947.1	scaffold3191	25482	GG	AA	AA	INTERGENIC			
SNP_108585_A_25537	NW_004517947.1	scaffold3191	25537	TT	CC	CC	INTERGENIC			
SNP_108586_A_25569	NW_004517947.1	scaffold3191	25569	AA	GG	GG	INTERGENIC			
SNP_108587_A_25722	NW_004517947.1	scaffold3191	25722	GG	AA	AA	INTERGENIC			
SNP_108588_A_25864	NW_004517947.1	scaffold3191	25864	CC	GG	GG	INTERGENIC			
SNP_108591_A_167	NW_004517953.1	scaffold3199	167	CC	TT	TT	INTERGENIC			
SNP_108592_A_606	NW_004517953.1	scaffold3199	606	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108593_A_673	NW_004517953.1	scaffold3199	673	TT	GG	GG	INTERGENIC			
SNP_108594_A_803	NW_004517953.1	scaffold3199	803	GG	AA	AA	INTERGENIC			
SNP_108595_A_637	NW_004517958.1	scaffold3204	637	AA	TT	TT	INTERGENIC			
SNP_108596_A_639	NW_004517958.1	scaffold3204	639	TT	GG	GG	INTERGENIC			
SNP_108597_A_647	NW_004517958.1	scaffold3204	647	AA	TT	TT	INTERGENIC			
SNP_108598_A_483	NW_004517961.1	scaffold3208	483	CC	TT	TT	INTERGENIC			
SNP_108599_A_673	NW_004517961.1	scaffold3208	673	AA	GG	GG	INTERGENIC			
SNP_108600_A_771	NW_004517961.1	scaffold3208	771	GG	AA	AA	INTERGENIC			
SNP_108601_A_802	NW_004517961.1	scaffold3208	802	CC	TT	TT	INTERGENIC			
SNP_108602_A_1189	NW_004517961.1	scaffold3208	1189	GG	AA	AA	INTERGENIC			
SNP_108603_A_1281	NW_004517961.1	scaffold3208	1281	GG	AA	AA	INTERGENIC			
SNP_108604_A_1429	NW_004517961.1	scaffold3208	1429	AA	GG	GG	INTERGENIC			
SNP_108605_A_1536	NW_004517961.1	scaffold3208	1536	AA	TT	TT	INTERGENIC			
SNP_108606_A_64	NW_004517962.1	scaffold3209	64	CC	AA	AA	INTERGENIC			
SNP_108607_A_66	NW_004517962.1	scaffold3209	66	AA	CC	CC	INTERGENIC			
SNP_108609_A_5599	NW_004517963.1	scaffold3210	5599	CC	GG	GG	INTERGENIC			
SNP_108610_A_5614	NW_004517963.1	scaffold3210	5614	TT	CC	CC	INTERGENIC			
SNP_108611_A_5729	NW_004517963.1	scaffold3210	5729	GG	TT	TT	INTERGENIC			
SNP_108612_A_5732	NW_004517963.1	scaffold3210	5732	TT	CC	CC	INTERGENIC			
SNP_108613_A_5768	NW_004517963.1	scaffold3210	5768	TT	CC	CC	INTERGENIC			
SNP_108614_A_5792	NW_004517963.1	scaffold3210	5792	CC	TT	TT	INTERGENIC			
SNP_108615_A_5946	NW_004517963.1	scaffold3210	5946	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108616_A_5971	NW_004517963.1	scaffold3210	5971	AA	GG	GG	INTERGENIC			
SNP_108617_A_5998	NW_004517963.1	scaffold3210	5998	CC	TT	TT	INTERGENIC			
SNP_108618_A_6029	NW_004517963.1	scaffold3210	6029	AA	GG	GG	INTERGENIC			
SNP_108619_A_6053	NW_004517963.1	scaffold3210	6053	GG	CC	CC	INTERGENIC			
SNP_108620_A_246	NW_004517965.1	scaffold3212	246	AA	GG	GG	INTERGENIC			
SNP_108621_A_286	NW_004517965.1	scaffold3212	286	AA	TT	TT	INTERGENIC			
SNP_108622_A_373	NW_004517965.1	scaffold3212	373	TT	CC	CC	INTERGENIC			
SNP_108623_A_628	NW_004517965.1	scaffold3212	628	TT	AA	AA	INTERGENIC			
SNP_108624_A_697	NW_004517965.1	scaffold3212	697	GG	TT	TT	INTERGENIC			
SNP_108626_A_762	NW_004517965.1	scaffold3212	762	CC	AA	AA	INTERGENIC			
SNP_108627_A_774	NW_004517965.1	scaffold3212	774	AA	GG	GG	INTERGENIC			
SNP_108628_A_1333	NW_004517965.1	scaffold3212	1333	CC	GG	GG	INTERGENIC			
SNP_108630_A_1577	NW_004517965.1	scaffold3212	1577	CC	TT	TT	INTERGENIC			
SNP_108631_A_1637	NW_004517965.1	scaffold3212	1637	AA	GG	GG	INTERGENIC			
SNP_108633_A_1883	NW_004517965.1	scaffold3212	1883	GG	CC	CC	INTERGENIC			
SNP_108634_A_2174	NW_004517965.1	scaffold3212	2174	TT	GG	GG	INTERGENIC			
SNP_108635_A_2224	NW_004517965.1	scaffold3212	2224	AA	TT	TT	INTERGENIC			
SNP_108636_A_2225	NW_004517965.1	scaffold3212	2225	TT	AA	AA	INTERGENIC			
SNP_108637_A_2369	NW_004517965.1	scaffold3212	2369	GG	AA	AA	INTERGENIC			
SNP_108638_A_2412	NW_004517965.1	scaffold3212	2412	CC	TT	TT	INTERGENIC			
SNP_108639_A_2416	NW_004517965.1	scaffold3212	2416	GG	AA	AA	INTERGENIC			
SNP_108640_A_2488	NW_004517965.1	scaffold3212	2488	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108641_A_2536	NW_004517965.1	scaffold3212	2536	AA	TT	TT	INTERGENIC			
SNP_108642_A_2548	NW_004517965.1	scaffold3212	2548	CC	TT	TT	INTERGENIC			
SNP_108644_A_2578	NW_004517965.1	scaffold3212	2578	CC	TT	TT	INTERGENIC			
SNP_108645_A_2664	NW_004517965.1	scaffold3212	2664	CC	GG	GG	INTERGENIC			
SNP_108646_A_2707	NW_004517965.1	scaffold3212	2707	AA	GG	GG	INTERGENIC			
SNP_108647_A_2711	NW_004517965.1	scaffold3212	2711	CC	TT	TT	INTERGENIC			
SNP_108648_A_2796	NW_004517965.1	scaffold3212	2796	GG	TT	TT	INTERGENIC			
SNP_108649_A_2830	NW_004517965.1	scaffold3212	2830	GG	CC	CC	INTERGENIC			
SNP_108650_A_2935	NW_004517965.1	scaffold3212	2935	TT	AA	AA	INTERGENIC			
SNP_108651_A_3032	NW_004517965.1	scaffold3212	3032	GG	CC	CC	INTERGENIC			
SNP_108652_A_3057	NW_004517965.1	scaffold3212	3057	CC	GG	GG	INTERGENIC			
SNP_108653_A_3076	NW_004517965.1	scaffold3212	3076	AA	CC	CC	INTERGENIC			
SNP_108654_A_3127	NW_004517965.1	scaffold3212	3127	GG	CC	CC	INTERGENIC			
SNP_108655_A_3487	NW_004517965.1	scaffold3212	3487	AA	GG	GG	INTERGENIC			
SNP_108656_A_3558	NW_004517965.1	scaffold3212	3558	CC	AA	AA	INTERGENIC			
SNP_108657_A_3599	NW_004517965.1	scaffold3212	3599	TT	CC	CC	INTERGENIC			
SNP_108658_A_3669	NW_004517965.1	scaffold3212	3669	AA	TT	TT	INTERGENIC			
SNP_108659_A_3681	NW_004517965.1	scaffold3212	3681	TT	AA	AA	INTERGENIC			
SNP_108660_A_3929	NW_004517965.1	scaffold3212	3929	AA	TT	TT	INTERGENIC			
SNP_108661_A_3953	NW_004517965.1	scaffold3212	3953	TT	CC	CC	INTERGENIC			
SNP_108662_A_3996	NW_004517965.1	scaffold3212	3996	CC	TT	TT	INTERGENIC			
SNP_108663_A_4038	NW_004517965.1	scaffold3212	4038	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108664_A_4166	NW_004517965.1	scaffold3212	4166	AA	TT	TT	INTERGENIC			
SNP_108665_A_4399	NW_004517965.1	scaffold3212	4399	AA	CC	CC	INTERGENIC			
SNP_108666_A_4495	NW_004517965.1	scaffold3212	4495	AA	CC	CC	INTERGENIC			
SNP_108667_A_5586	NW_004517965.1	scaffold3212	5586	AA	GG	GG	INTERGENIC			
SNP_108668_A_5589	NW_004517965.1	scaffold3212	5589	GG	AA	AA	INTERGENIC			
SNP_108669_A_5837	NW_004517965.1	scaffold3212	5837	AA	CC	CC	INTERGENIC			
SNP_108670_A_5865	NW_004517965.1	scaffold3212	5865	TT	GG	GG	INTERGENIC			
SNP_108671_A_5944	NW_004517965.1	scaffold3212	5944	AA	GG	GG	INTERGENIC			
SNP_108672_A_5945	NW_004517965.1	scaffold3212	5945	GG	TT	TT	INTERGENIC			
SNP_108673_A_5951	NW_004517965.1	scaffold3212	5951	TT	CC	CC	INTERGENIC			
SNP_108674_A_6060	NW_004517965.1	scaffold3212	6060	GG	TT	TT	INTERGENIC			
SNP_108675_A_6141	NW_004517965.1	scaffold3212	6141	GG	CC	CC	INTERGENIC			
SNP_108677_A_6400	NW_004517965.1	scaffold3212	6400	AA	CC	CC	INTERGENIC			
SNP_108678_A_6451	NW_004517965.1	scaffold3212	6451	TT	CC	CC	INTERGENIC			
SNP_108679_A_6469	NW_004517965.1	scaffold3212	6469	GG	TT	TT	INTERGENIC			
SNP_108680_A_6597	NW_004517965.1	scaffold3212	6597	CC	TT	TT	INTERGENIC			
SNP_108681_A_6598	NW_004517965.1	scaffold3212	6598	GG	AA	AA	INTERGENIC			
SNP_108682_A_6755	NW_004517965.1	scaffold3212	6755	GG	CC	CC	INTERGENIC			
SNP_108683_A_6845	NW_004517965.1	scaffold3212	6845	CC	AA	AA	INTERGENIC			
SNP_108684_A_6849	NW_004517965.1	scaffold3212	6849	TT	GG	GG	INTERGENIC			
SNP_108685_A_7065	NW_004517965.1	scaffold3212	7065	AA	GG	GG	INTERGENIC			
SNP_108686_A_7293	NW_004517965.1	scaffold3212	7293	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108687_A_7996	NW_004517965.1	scaffold3212	7996	GG	TT	TT	INTERGENIC			
SNP_108688_A_8159	NW_004517965.1	scaffold3212	8159	AA	GG	GG	INTERGENIC			
SNP_108689_A_8262	NW_004517965.1	scaffold3212	8262	CC	GG	GG	INTERGENIC			
SNP_108690_A_8274	NW_004517965.1	scaffold3212	8274	CC	TT	TT	INTERGENIC			
SNP_108691_A_8455	NW_004517965.1	scaffold3212	8455	CC	TT	TT	INTERGENIC			
SNP_108692_A_8457	NW_004517965.1	scaffold3212	8457	AA	GG	GG	INTERGENIC			
SNP_108693_A_8749	NW_004517965.1	scaffold3212	8749	CC	TT	TT	INTERGENIC			
SNP_108694_A_8947	NW_004517965.1	scaffold3212	8947	GG	TT	TT	INTERGENIC			
SNP_108695_A_9000	NW_004517965.1	scaffold3212	9000	GG	TT	TT	INTERGENIC			
SNP_108696_A_9541	NW_004517965.1	scaffold3212	9541	TT	AA	AA	INTERGENIC			
SNP_108697_A_9672	NW_004517965.1	scaffold3212	9672	AA	TT	TT	INTERGENIC			
SNP_108698_A_9696	NW_004517965.1	scaffold3212	9696	TT	CC	CC	INTERGENIC			
SNP_108699_A_9767	NW_004517965.1	scaffold3212	9767	GG	AA	AA	INTERGENIC			
SNP_108700_A_9830	NW_004517965.1	scaffold3212	9830	CC	GG	GG	INTERGENIC			
SNP_108701_A_9889	NW_004517965.1	scaffold3212	9889	TT	CC	CC	INTERGENIC			
SNP_108702_A_9890	NW_004517965.1	scaffold3212	9890	GG	AA	AA	INTERGENIC			
SNP_108703_A_10050	NW_004517965.1	scaffold3212	10050	TT	CC	CC	INTERGENIC			
SNP_108704_A_10080	NW_004517965.1	scaffold3212	10080	CC	AA	AA	INTERGENIC			
SNP_108705_A_10105	NW_004517965.1	scaffold3212	10105	GG	TT	TT	INTERGENIC			
SNP_108706_A_10114	NW_004517965.1	scaffold3212	10114	CC	AA	AA	INTERGENIC			
SNP_108707_A_10183	NW_004517965.1	scaffold3212	10183	TT	CC	CC	INTERGENIC			
SNP_108708_A_10307	NW_004517965.1	scaffold3212	10307	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108709_A_10372	NW_004517965.1	scaffold3212	10372	GG	AA	AA	INTERGENIC		
SNP_108710_A_10738	NW_004517965.1	scaffold3212	10738	TT	AA	AA	INTERGENIC		
SNP_108711_A_10794	NW_004517965.1	scaffold3212	10794	AA	GG	GG	INTERGENIC		
SNP_108712_A_11463	NW_004517965.1	scaffold3212	11463	GG	TT	TT	INTERGENIC		
SNP_108713_A_18200	NW_004517966.1	scaffold3213	18200	TT	AA	AA	INTERGENIC		
SNP_108714_A_800	NW_004517968.1	scaffold3215	800	CC	TT	TT	INTERGENIC		
SNP_108715_A_1063	NW_004517968.1	scaffold3215	1063	GG	TT	TT	INTERGENIC		
SNP_108716_A_1074	NW_004517968.1	scaffold3215	1074	CC	AA	AA	INTERGENIC		
SNP_108717_A_1077	NW_004517968.1	scaffold3215	1077	TT	CC	CC	INTERGENIC		
SNP_108718_A_1340	NW_004517968.1	scaffold3215	1340	GG	TT	TT	INTERGENIC		
SNP_108719_A_1872	NW_004517969.1	scaffold3216	1872	TT	AA	AA	INTRON	101490594	pectinesterase 4-like
SNP_108720_A_1904	NW_004517969.1	scaffold3216	1904	AA	CC	CC	INTRON	101490594	pectinesterase 4-like
SNP_108721_A_9011	NW_004517969.1	scaffold3216	9011	AA	TT	TT	INTRON	101490594	pectinesterase 4-like
SNP_108722_A_4107	NW_004517970.1	scaffold3217	4107	AA	GG	GG	INTERGENIC		
SNP_108723_A_4117	NW_004517970.1	scaffold3217	4117	AA	GG	GG	INTERGENIC		
SNP_108724_A_4275	NW_004517970.1	scaffold3217	4275	CC	TT	TT	INTERGENIC		
SNP_108725_A_4343	NW_004517970.1	scaffold3217	4343	CC	AA	AA	INTERGENIC		
SNP_108726_A_4364	NW_004517970.1	scaffold3217	4364	AA	GG	GG	INTERGENIC		
SNP_108727_A_4412	NW_004517970.1	scaffold3217	4412	TT	GG	GG	INTERGENIC		
SNP_108728_A_4422	NW_004517970.1	scaffold3217	4422	AA	GG	GG	INTERGENIC		
SNP_108729_A_4490	NW_004517970.1	scaffold3217	4490	TT	CC	CC	INTERGENIC		
SNP_108730_A_4584	NW_004517970.1	scaffold3217	4584	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108732_A_4724	NW_004517970.1	scaffold3217	4724	AA	GG	GG	INTERGENIC			
SNP_108733_A_4767	NW_004517970.1	scaffold3217	4767	AA	CC	CC	INTERGENIC			
SNP_108734_A_4882	NW_004517970.1	scaffold3217	4882	GG	AA	AA	INTERGENIC			
SNP_108735_A_13734	NW_004517970.1	scaffold3217	13734	AA	GG	GG	INTERGENIC			
SNP_108736_A_13849	NW_004517970.1	scaffold3217	13849	CC	TT	TT	INTERGENIC			
SNP_108737_A_14160	NW_004517970.1	scaffold3217	14160	AA	GG	GG	INTERGENIC			
SNP_108738_A_15277	NW_004517970.1	scaffold3217	15277	AA	GG	GG	INTERGENIC			
SNP_108739_A_15304	NW_004517970.1	scaffold3217	15304	AA	CC	CC	INTERGENIC			
SNP_108740_A_15341	NW_004517970.1	scaffold3217	15341	TT	CC	CC	INTERGENIC			
SNP_108741_A_15838	NW_004517970.1	scaffold3217	15838	AA	GG	GG	INTERGENIC			
SNP_108742_A_20534	NW_004517970.1	scaffold3217	20534	AA	TT	TT	INTERGENIC			
SNP_108743_A_36238	NW_004517970.1	scaffold3217	36238	AA	GG	GG	INTERGENIC			
SNP_108744_A_36291	NW_004517970.1	scaffold3217	36291	AA	CC	CC	INTERGENIC			
SNP_108745_A_36603	NW_004517970.1	scaffold3217	36603	TT	AA	AA	INTERGENIC			
SNP_108746_A_766	NW_004517976.1	scaffold3225	766	AA	GG	GG	INTERGENIC			
SNP_108747_A_5514	NW_004517976.1	scaffold3225	5514	TT	CC	CC	INTERGENIC			
SNP_108748_A_5713	NW_004517976.1	scaffold3225	5713	CC	TT	TT	INTERGENIC			
SNP_108749_A_8616	NW_004517976.1	scaffold3225	8616	TT	CC	CC	INTERGENIC			
SNP_108750_A_8635	NW_004517976.1	scaffold3225	8635	AA	GG	GG	INTERGENIC			
SNP_108752_A_8668	NW_004517976.1	scaffold3225	8668	CC	AA	AA	INTERGENIC			
SNP_108753_A_8682	NW_004517976.1	scaffold3225	8682	TT	CC	CC	INTERGENIC			
SNP_108754_A_8718	NW_004517976.1	scaffold3225	8718	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108755_A_8743	NW_004517976.1	scaffold3225	8743	AA	GG	GG	INTERGENIC			
SNP_108756_A_10032	NW_004517976.1	scaffold3225	10032	TT	GG	GG	INTERGENIC			
SNP_108758_A_21865	NW_004517976.1	scaffold3225	21865	AA	GG	GG	INTERGENIC			
SNP_108759_A_21955	NW_004517976.1	scaffold3225	21955	AA	GG	GG	INTERGENIC			
SNP_108760_A_22316	NW_004517976.1	scaffold3225	22316	GG	AA	AA	INTERGENIC			
SNP_108763_A_1920	NW_004517979.1	scaffold3228	1920	CC	TT	TT	INTERGENIC			
SNP_108764_A_1953	NW_004517979.1	scaffold3228	1953	TT	GG	GG	INTERGENIC			
SNP_108765_A_4799	NW_004517979.1	scaffold3228	4799	CC	TT	TT	INTERGENIC			
SNP_108766_A_5239	NW_004517979.1	scaffold3228	5239	CC	GG	GG	INTERGENIC			
SNP_108767_A_8028	NW_004517979.1	scaffold3228	8028	GG	CC	CC	INTERGENIC			
SNP_108768_A_8510	NW_004517979.1	scaffold3228	8510	AA	GG	GG	INTERGENIC			
SNP_108769_A_8518	NW_004517979.1	scaffold3228	8518	AA	GG	GG	INTERGENIC			
SNP_108770_A_8534	NW_004517979.1	scaffold3228	8534	AA	GG	GG	INTERGENIC			
SNP_108771_A_10144	NW_004517979.1	scaffold3228	10144	AA	GG	GG	INTERGENIC			
SNP_108772_A_16980	NW_004517979.1	scaffold3228	16980	TT	AA	AA	INTERGENIC			
SNP_108773_A_20869	NW_004517979.1	scaffold3228	20869	CC	GG	GG	URR	101490919	inositol transporter 1-like	
SNP_108774_A_21255	NW_004517979.1	scaffold3228	21255	TT	CC	CC	URR	101490919	inositol transporter 1-like	
SNP_108775_A_22173	NW_004517979.1	scaffold3228	22173	TT	CC	CC	INTERGENIC			
SNP_108776_A_23711	NW_004517979.1	scaffold3228	23711	TT	AA	AA	INTERGENIC			
SNP_108777_A_43196	NW_004517979.1	scaffold3228	43196	GG	AA	AA	INTERGENIC			
SNP_108780_A_48653	NW_004517979.1	scaffold3228	48653	TT	AA	AA	INTERGENIC			
SNP_108781_A_54394	NW_004517979.1	scaffold3228	54394	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108782_A_54441	NW_004517979.1	scaffold3228	54441	CC	TT	TT	INTERGENIC			
SNP_108783_A_54667	NW_004517979.1	scaffold3228	54667	TT	AA	AA	INTERGENIC			
SNP_108784_A_54668	NW_004517979.1	scaffold3228	54668	AA	TT	TT	INTERGENIC			
SNP_108785_A_59092	NW_004517979.1	scaffold3228	59092	CC	GG	GG	INTERGENIC			
SNP_108786_A_1072	NW_004517980.1	scaffold3229	1072	GG	AA	AA	INTERGENIC			
SNP_108787_A_1381	NW_004517980.1	scaffold3229	1381	GG	CC	CC	INTERGENIC			
SNP_108788_A_1450	NW_004517980.1	scaffold3229	1450	GG	AA	AA	INTERGENIC			
SNP_108789_A_1568	NW_004517980.1	scaffold3229	1568	CC	AA	AA	INTERGENIC			
SNP_108790_A_1594	NW_004517980.1	scaffold3229	1594	TT	CC	CC	INTERGENIC			
SNP_108791_A_4880	NW_004517980.1	scaffold3229	4880	CC	AA	AA	INTERGENIC			
SNP_108792_A_4918	NW_004517980.1	scaffold3229	4918	AA	GG	GG	INTERGENIC			
SNP_108793_A_4932	NW_004517980.1	scaffold3229	4932	AA	GG	GG	INTERGENIC			
SNP_108794_A_4987	NW_004517980.1	scaffold3229	4987	GG	AA	AA	INTERGENIC			
SNP_108795_A_5012	NW_004517980.1	scaffold3229	5012	GG	AA	AA	INTERGENIC			
SNP_108796_A_5108	NW_004517980.1	scaffold3229	5108	AA	CC	CC	INTERGENIC			
SNP_108797_A_5141	NW_004517980.1	scaffold3229	5141	AA	GG	GG	INTERGENIC			
SNP_108798_A_5160	NW_004517980.1	scaffold3229	5160	CC	TT	TT	INTERGENIC			
SNP_108799_A_5178	NW_004517980.1	scaffold3229	5178	TT	GG	GG	INTERGENIC			
SNP_108800_A_5273	NW_004517980.1	scaffold3229	5273	TT	AA	AA	INTERGENIC			
SNP_108801_A_5281	NW_004517980.1	scaffold3229	5281	AA	TT	TT	INTERGENIC			
SNP_108802_A_5287	NW_004517980.1	scaffold3229	5287	TT	AA	AA	INTERGENIC			
SNP_108804_A_5410	NW_004517980.1	scaffold3229	5410	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108805_A_5412	NW_004517980.1	scaffold3229	5412	CC	AA	AA	INTERGENIC			
SNP_108806_A_5419	NW_004517980.1	scaffold3229	5419	AA	TT	TT	INTERGENIC			
SNP_108807_A_5421	NW_004517980.1	scaffold3229	5421	AA	CC	CC	INTERGENIC			
SNP_108808_A_5500	NW_004517980.1	scaffold3229	5500	CC	TT	TT	INTERGENIC			
SNP_108809_A_5555	NW_004517980.1	scaffold3229	5555	TT	AA	AA	INTERGENIC			
SNP_108810_A_5667	NW_004517980.1	scaffold3229	5667	GG	AA	AA	INTERGENIC			
SNP_108811_A_5802	NW_004517980.1	scaffold3229	5802	TT	CC	CC	INTERGENIC			
SNP_108813_A_5805	NW_004517980.1	scaffold3229	5805	TT	AA	AA	INTERGENIC			
SNP_108814_A_5806	NW_004517980.1	scaffold3229	5806	CC	AA	AA	INTERGENIC			
SNP_108816_A_5968	NW_004517980.1	scaffold3229	5968	GG	AA	AA	INTERGENIC			
SNP_108817_A_5977	NW_004517980.1	scaffold3229	5977	CC	AA	AA	INTERGENIC			
SNP_108818_A_6024	NW_004517980.1	scaffold3229	6024	AA	GG	GG	INTERGENIC			
SNP_108819_A_6102	NW_004517980.1	scaffold3229	6102	CC	AA	AA	INTERGENIC			
SNP_108820_A_6167	NW_004517980.1	scaffold3229	6167	CC	TT	TT	INTERGENIC			
SNP_108821_A_6288	NW_004517980.1	scaffold3229	6288	AA	GG	GG	INTERGENIC			
SNP_108822_A_6290	NW_004517980.1	scaffold3229	6290	AA	GG	GG	INTERGENIC			
SNP_108823_A_6303	NW_004517980.1	scaffold3229	6303	GG	AA	AA	INTERGENIC			
SNP_108824_A_6389	NW_004517980.1	scaffold3229	6389	TT	CC	CC	INTERGENIC			
SNP_108825_A_6400	NW_004517980.1	scaffold3229	6400	AA	GG	GG	INTERGENIC			
SNP_108826_A_6410	NW_004517980.1	scaffold3229	6410	CC	TT	TT	INTERGENIC			
SNP_108827_A_6424	NW_004517980.1	scaffold3229	6424	AA	TT	TT	INTERGENIC			
SNP_108828_A_6464	NW_004517980.1	scaffold3229	6464	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108829_A_6607	NW_004517980.1	scaffold3229	6607	TT	CC	CC	INTERGENIC			
SNP_108830_A_6671	NW_004517980.1	scaffold3229	6671	TT	GG	GG	INTERGENIC			
SNP_108831_A_6672	NW_004517980.1	scaffold3229	6672	TT	CC	CC	INTERGENIC			
SNP_108832_A_6690	NW_004517980.1	scaffold3229	6690	AA	TT	TT	INTERGENIC			
SNP_108834_A_6729	NW_004517980.1	scaffold3229	6729	TT	CC	CC	INTERGENIC			
SNP_108835_A_6974	NW_004517980.1	scaffold3229	6974	AA	TT	TT	INTERGENIC			
SNP_108836_A_7719	NW_004517980.1	scaffold3229	7719	TT	GG	GG	INTERGENIC			
SNP_108837_A_7751	NW_004517980.1	scaffold3229	7751	AA	CC	CC	INTERGENIC			
SNP_108838_A_7752	NW_004517980.1	scaffold3229	7752	TT	AA	AA	INTERGENIC			
SNP_108839_A_8460	NW_004517980.1	scaffold3229	8460	CC	TT	TT	INTERGENIC			
SNP_108840_A_8887	NW_004517980.1	scaffold3229	8887	CC	GG	GG	INTERGENIC			
SNP_108841_A_8920	NW_004517980.1	scaffold3229	8920	TT	CC	CC	INTERGENIC			
SNP_108843_A_1564	NW_004517981.1	scaffold3230	1564	GG	TT	TT	INTERGENIC			
SNP_108844_A_1887	NW_004517982.1	scaffold3233	1887	TT	CC	CC	INTERGENIC			
SNP_108845_A_233	NW_004517983.1	scaffold3234	233	CC	AA	AA	INTERGENIC			
SNP_108846_A_247	NW_004517983.1	scaffold3234	247	GG	AA	AA	INTERGENIC			
SNP_108847_A_328	NW_004517983.1	scaffold3234	328	TT	CC	CC	INTERGENIC			
SNP_108848_A_672	NW_004517983.1	scaffold3234	672	AA	TT	TT	INTERGENIC			
SNP_108850_A_8486	NW_004517983.1	scaffold3234	8486	CC	AA	AA	INTERGENIC			
SNP_108851_A_8498	NW_004517983.1	scaffold3234	8498	TT	AA	AA	INTERGENIC			
SNP_108852_A_8535	NW_004517983.1	scaffold3234	8535	CC	TT	TT	INTERGENIC			
SNP_108853_A_11327	NW_004517983.1	scaffold3234	11327	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108854_A_11509	NW_004517983.1	scaffold3234	11509	AA	GG	GG	INTERGENIC			
SNP_108855_A_12185	NW_004517983.1	scaffold3234	12185	CC	TT	TT	INTERGENIC			
SNP_108856_A_686	NW_004517984.1	scaffold3235	686	TT	CC	CC	INTERGENIC			
SNP_108857_A_712	NW_004517984.1	scaffold3235	712	CC	TT	TT	INTERGENIC			
SNP_108858_A_906	NW_004517984.1	scaffold3235	906	GG	AA	AA	INTERGENIC			
SNP_108859_A_930	NW_004517984.1	scaffold3235	930	TT	CC	CC	INTERGENIC			
SNP_108860_A_1013	NW_004517984.1	scaffold3235	1013	GG	TT	TT	INTERGENIC			
SNP_108861_A_1266	NW_004517984.1	scaffold3235	1266	TT	AA	AA	INTERGENIC			
SNP_108862_A_1192	NW_004517986.1	scaffold3237	1192	AA	GG	GG	INTERGENIC			
SNP_108863_A_1232	NW_004517986.1	scaffold3237	1232	TT	CC	CC	INTERGENIC			
SNP_108864_A_1261	NW_004517986.1	scaffold3237	1261	TT	CC	CC	INTERGENIC			
SNP_108865_A_170	NW_004517989.1	scaffold3241	170	GG	AA	AA	INTERGENIC			
SNP_108866_A_536	NW_004517989.1	scaffold3241	536	GG	AA	AA	INTERGENIC			
SNP_108867_A_552	NW_004517989.1	scaffold3241	552	CC	TT	TT	INTERGENIC			
SNP_108868_A_611	NW_004517989.1	scaffold3241	611	GG	AA	AA	INTERGENIC			
SNP_108869_A_682	NW_004517989.1	scaffold3241	682	TT	CC	CC	INTERGENIC			
SNP_108870_A_751	NW_004517989.1	scaffold3241	751	AA	GG	GG	INTERGENIC			
SNP_108871_A_753	NW_004517989.1	scaffold3241	753	TT	GG	GG	INTERGENIC			
SNP_108872_A_879	NW_004517989.1	scaffold3241	879	GG	AA	AA	INTERGENIC			
SNP_108873_A_943	NW_004517989.1	scaffold3241	943	CC	TT	TT	INTERGENIC			
SNP_108875_A_1082	NW_004517989.1	scaffold3241	1082	GG	CC	CC	INTERGENIC			
SNP_108876_A_1084	NW_004517989.1	scaffold3241	1084	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_108877_A_1135	NW_004517989.1	scaffold3241	1135	AA	TT	TT	INTERGENIC			
SNP_108878_A_2849	NW_004517990.1	scaffold3242	2849	TT	CC	CC	INTERGENIC			
SNP_108879_A_3434	NW_004517990.1	scaffold3242	3434	GG	AA	AA	INTERGENIC			
SNP_108880_A_3512	NW_004517990.1	scaffold3242	3512	GG	AA	AA	INTERGENIC			
SNP_108881_A_3517	NW_004517990.1	scaffold3242	3517	TT	GG	GG	INTERGENIC			
SNP_108882_A_3552	NW_004517990.1	scaffold3242	3552	TT	GG	GG	INTERGENIC			
SNP_108883_A_3558	NW_004517990.1	scaffold3242	3558	AA	GG	GG	INTERGENIC			
SNP_108884_A_3579	NW_004517990.1	scaffold3242	3579	GG	CC	CC	INTERGENIC			
SNP_108885_A_6157	NW_004517990.1	scaffold3242	6157	CC	AA	AA	INTERGENIC			
SNP_108886_A_6170	NW_004517990.1	scaffold3242	6170	CC	AA	AA	INTERGENIC			
SNP_108887_A_6511	NW_004517990.1	scaffold3242	6511	TT	CC	CC	INTERGENIC			
SNP_108888_A_6521	NW_004517990.1	scaffold3242	6521	AA	GG	GG	INTERGENIC			
SNP_108889_A_6560	NW_004517990.1	scaffold3242	6560	CC	TT	TT	INTERGENIC			
SNP_108890_A_6666	NW_004517990.1	scaffold3242	6666	TT	CC	CC	INTERGENIC			
SNP_108891_A_6705	NW_004517990.1	scaffold3242	6705	TT	AA	AA	INTERGENIC			
SNP_108892_A_6711	NW_004517990.1	scaffold3242	6711	CC	TT	TT	INTERGENIC			
SNP_108893_A_9692	NW_004517990.1	scaffold3242	9692	TT	AA	AA	INTERGENIC			
SNP_108894_A_11931	NW_004517991.1	scaffold3243	11931	TT	CC	CC	INTERGENIC			
SNP_108895_A_19633	NW_004517991.1	scaffold3243	19633	AA	TT	TT	DRR	101491561	chitinase 2-like	
SNP_108896_A_19651	NW_004517991.1	scaffold3243	19651	CC	TT	TT	DRR	101491561	chitinase 2-like	
SNP_108897_A_19657	NW_004517991.1	scaffold3243	19657	CC	TT	TT	DRR	101491561	chitinase 2-like	
SNP_108899_A_20470	NW_004517991.1	scaffold3243	20470	GG	AA	AA	URR	101491561	chitinase 2-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108900_A_20490	NW_004517991.1	scaffold3243	20490	AA	GG	GG	URR	101491561	chitinase 2-like
SNP_108901_A_20654	NW_004517991.1	scaffold3243	20654	AA	TT	TT	URR	101491561	chitinase 2-like
SNP_108902_A_20675	NW_004517991.1	scaffold3243	20675	CC	GG	GG	URR	101491561	chitinase 2-like
SNP_108903_A_20695	NW_004517991.1	scaffold3243	20695	AA	CC	CC	URR	101491561	chitinase 2-like
SNP_108904_A_20782	NW_004517991.1	scaffold3243	20782	CC	TT	TT	URR	101491561	chitinase 2-like
SNP_108905_A_13483	NW_004517992.1	scaffold3245	13483	AA	GG	GG	INTERGENIC		
SNP_108906_A_13520	NW_004517992.1	scaffold3245	13520	AA	TT	TT	INTERGENIC		
SNP_108907_A_13650	NW_004517992.1	scaffold3245	13650	GG	AA	AA	INTERGENIC		
SNP_108908_A_13677	NW_004517992.1	scaffold3245	13677	GG	AA	AA	INTERGENIC		
SNP_108909_A_13680	NW_004517992.1	scaffold3245	13680	TT	CC	CC	INTERGENIC		
SNP_108910_A_13690	NW_004517992.1	scaffold3245	13690	TT	CC	CC	INTERGENIC		
SNP_108911_A_13744	NW_004517992.1	scaffold3245	13744	CC	TT	TT	INTERGENIC		
SNP_108912_A_13867	NW_004517992.1	scaffold3245	13867	TT	AA	AA	INTERGENIC		
SNP_108913_A_13874	NW_004517992.1	scaffold3245	13874	GG	AA	AA	INTERGENIC		
SNP_108914_A_523	NW_004517995.1	scaffold3251	523	CC	AA	AA	INTERGENIC		
SNP_108915_A_762	NW_004517995.1	scaffold3251	762	AA	GG	GG	INTERGENIC		
SNP_108916_A_2756	NW_004517995.1	scaffold3251	2756	GG	TT	TT	INTERGENIC		
SNP_108917_A_2772	NW_004517995.1	scaffold3251	2772	AA	GG	GG	INTERGENIC		
SNP_108918_A_6936	NW_004517995.1	scaffold3251	6936	AA	GG	GG	INTERGENIC		
SNP_108919_A_8533	NW_004517995.1	scaffold3251	8533	GG	CC	CC	INTERGENIC		
SNP_108920_A_9075	NW_004517995.1	scaffold3251	9075	TT	CC	CC	INTERGENIC		
SNP_108921_A_9436	NW_004517995.1	scaffold3251	9436	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108922_A_9677	NW_004517995.1	scaffold3251	9677	CC	GG	GG	INTERGENIC		
SNP_108923_A_9991	NW_004517995.1	scaffold3251	9991	GG	CC	CC	INTERGENIC		
SNP_108924_A_10358	NW_004517995.1	scaffold3251	10358	GG	AA	AA	INTERGENIC		
SNP_108925_A_13360	NW_004517995.1	scaffold3251	13360	CC	AA	AA	INTERGENIC		
SNP_108926_A_14842	NW_004517995.1	scaffold3251	14842	TT	AA	AA	INTERGENIC		
SNP_108927_A_14843	NW_004517995.1	scaffold3251	14843	CC	TT	TT	INTERGENIC		
SNP_108928_A_15320	NW_004517995.1	scaffold3251	15320	AA	GG	GG	INTERGENIC		
SNP_108932_A_2395	NW_004517997.1	scaffold3254_2	2395	AA	GG	GG	INTERGENIC		
SNP_108933_A_5281	NW_004517997.1	scaffold3254_2	5281	GG	AA	AA	SYNONYMOUS_CODING	101491869	protein arginine N-methyltransferase 1.6
SNP_108934_A_8084	NW_004517997.1	scaffold3254_2	8084	TT	CC	CC	URR	101491869	protein arginine N-methyltransferase 1.6
SNP_108935_A_8322	NW_004517997.1	scaffold3254_2	8322	GG	TT	TT	URR	101491869	protein arginine N-methyltransferase 1.6
SNP_108936_A_15551	NW_004517997.1	scaffold3254_2	15551	GG	TT	TT	NON_SYNONYMOUS_CODING	101492425	aspartic proteinase CDR1-like
SNP_108938_A_18340	NW_004517997.1	scaffold3254_2	18340	CC	TT	TT	INTERGENIC		
SNP_108939_A_18447	NW_004517997.1	scaffold3254_2	18447	TT	AA	AA	INTERGENIC		
SNP_108941_A_22966	NW_004517997.1	scaffold3254_2	22966	AA	GG	GG	DRR	101492757	vesicle-associated protein 1-2-like
SNP_108943_A_29621	NW_004517997.1	scaffold3254_2	29621	GG	TT	TT	URR	101492757	vesicle-associated protein 1-2-like
SNP_108944_A_29939	NW_004517997.1	scaffold3254_2	29939	TT	AA	AA	URR	101492757	vesicle-associated protein 1-2-like
SNP_108946_A_40364	NW_004517997.1	scaffold3254_2	40364	CC	GG	GG	INTRON	101493421	uncharacterized LOC101493421
SNP_108947_A_40396	NW_004517997.1	scaffold3254_2	40396	GG	AA	AA	INTRON	101493421	uncharacterized LOC101493421
SNP_108948_A_40439	NW_004517997.1	scaffold3254_2	40439	CC	TT	TT	INTRON	101493421	uncharacterized LOC101493421
SNP_108949_A_41093	NW_004517997.1	scaffold3254_2	41093	GG	TT	TT	NON_SYNONYMOUS_CODING	101493421	uncharacterized LOC101493421
SNP_108950_A_45279	NW_004517997.1	scaffold3254_2	45279	GG	TT	TT	DRR	101493744	uncharacterized LOC101493744

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108951_A_47864	NW_004517997.1	scaffold3254_2	47864	GG	AA	AA	DRR	101493744	uncharacterized LOC101493744
SNP_108952_A_48604	NW_004517997.1	scaffold3254_2	48604	AA	CC	CC	URR	101493744	uncharacterized LOC101493744
SNP_108953_A_48884	NW_004517997.1	scaffold3254_2	48884	CC	AA	AA	URR	101493744	uncharacterized LOC101493744
SNP_108954_A_50858	NW_004517997.1	scaffold3254_2	50858	AA	GG	GG	INTERGENIC		
SNP_108955_A_52022	NW_004517997.1	scaffold3254_2	52022	TT	CC	CC	INTERGENIC		
SNP_108956_A_52023	NW_004517997.1	scaffold3254_2	52023	GG	AA	AA	INTERGENIC		
SNP_108957_A_52983	NW_004517997.1	scaffold3254_2	52983	AA	GG	GG	INTERGENIC		
SNP_108958_A_53054	NW_004517997.1	scaffold3254_2	53054	TT	CC	CC	INTERGENIC		
SNP_108959_A_53069	NW_004517997.1	scaffold3254_2	53069	CC	TT	TT	INTERGENIC		
SNP_108960_A_53081	NW_004517997.1	scaffold3254_2	53081	TT	CC	CC	INTERGENIC		
SNP_108961_A_53099	NW_004517997.1	scaffold3254_2	53099	AA	CC	CC	INTERGENIC		
SNP_108962_A_53105	NW_004517997.1	scaffold3254_2	53105	TT	AA	AA	INTERGENIC		
SNP_108963_A_53125	NW_004517997.1	scaffold3254_2	53125	AA	GG	GG	INTERGENIC		
SNP_108964_A_53514	NW_004517997.1	scaffold3254_2	53514	CC	TT	TT	INTERGENIC		
SNP_108965_A_54631	NW_004517997.1	scaffold3254_2	54631	TT	AA	AA	INTERGENIC		
SNP_108966_A_74352	NW_004517997.1	scaffold3254_2	74352	AA	GG	GG	INTRON	101495118	L-lactate dehydrogenase A-like
SNP_108968_A_77623	NW_004517997.1	scaffold3254_2	77623	AA	GG	GG	DRR	101495446	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial
SNP_108969_A_82944	NW_004517997.1	scaffold3254_2	82944	AA	GG	GG	URR	101495446	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial
SNP_108970_A_84810	NW_004517997.1	scaffold3254_2	84810	GG	AA	AA	INTERGENIC		
SNP_108971_A_84826	NW_004517997.1	scaffold3254_2	84826	AA	GG	GG	INTERGENIC		
SNP_108972_A_88804	NW_004517997.1	scaffold3254_2	88804	TT	CC	CC	INTERGENIC		
SNP_108973_A_88955	NW_004517997.1	scaffold3254_2	88955	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108974_A_88994	NW_004517997.1	scaffold3254_2	88994	GG	TT	TT	INTERGENIC		
SNP_108975_A_89502	NW_004517997.1	scaffold3254_2	89502	AA	GG	GG	INTERGENIC		
SNP_108976_A_89807	NW_004517997.1	scaffold3254_2	89807	TT	CC	CC	INTERGENIC		
SNP_108978_A_108709	NW_004517997.1	scaffold3254_2	108709	TT	CC	CC	URR	101496425	14 kDa proline-rich protein DC2.15
SNP_108979_A_108746	NW_004517997.1	scaffold3254_2	108746	AA	GG	GG	URR	101496425	14 kDa proline-rich protein DC2.15
SNP_108980_A_109284	NW_004517997.1	scaffold3254_2	109284	GG	AA	AA	URR	101496425	14 kDa proline-rich protein DC2.15
SNP_108981_A_109757	NW_004517997.1	scaffold3254_2	109757	AA	GG	GG	INTERGENIC		
SNP_108983_A_111037	NW_004517997.1	scaffold3254_2	111037	TT	CC	CC	DRR	101496757	36.4 kDa proline-rich protein-like
SNP_108984_A_111081	NW_004517997.1	scaffold3254_2	111081	CC	AA	AA	DRR	101496757	36.4 kDa proline-rich protein-like
SNP_108985_A_111102	NW_004517997.1	scaffold3254_2	111102	CC	GG	GG	DRR	101496757	36.4 kDa proline-rich protein-like
SNP_108987_A_119312	NW_004517997.1	scaffold3254_2	119312	AA	GG	GG	URR	101497066	lipid transfer protein EARLI 1-like
SNP_108988_A_119323	NW_004517997.1	scaffold3254_2	119323	TT	CC	CC	URR	101497066	lipid transfer protein EARLI 1-like
SNP_108989_A_119397	NW_004517997.1	scaffold3254_2	119397	CC	TT	TT	URR	101497066	lipid transfer protein EARLI 1-like
SNP_108990_A_119524	NW_004517997.1	scaffold3254_2	119524	AA	CC	CC	INTERGENIC		
SNP_108991_A_119573	NW_004517997.1	scaffold3254_2	119573	TT	GG	GG	INTERGENIC		
SNP_108992_A_119579	NW_004517997.1	scaffold3254_2	119579	CC	TT	TT	INTERGENIC		
SNP_108993_A_119588	NW_004517997.1	scaffold3254_2	119588	AA	GG	GG	INTERGENIC		
SNP_108994_A_119596	NW_004517997.1	scaffold3254_2	119596	CC	AA	AA	INTERGENIC		
SNP_108995_A_119609	NW_004517997.1	scaffold3254_2	119609	GG	TT	TT	INTERGENIC		
SNP_108996_A_119610	NW_004517997.1	scaffold3254_2	119610	TT	GG	GG	INTERGENIC		
SNP_108997_A_120343	NW_004517997.1	scaffold3254_2	120343	TT	CC	CC	INTERGENIC		
SNP_108998_A_120381	NW_004517997.1	scaffold3254_2	120381	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_108999_A_120469	NW_004517997.1	scaffold3254_2	120469	GG	AA	AA	INTERGENIC		
SNP_109000_A_121459	NW_004517997.1	scaffold3254_2	121459	GG	TT	TT	INTERGENIC		
SNP_109001_A_121464	NW_004517997.1	scaffold3254_2	121464	CC	AA	AA	INTERGENIC		
SNP_109005_A_125606	NW_004517997.1	scaffold3254_2	125606	GG	AA	AA	INTERGENIC		
SNP_109006_A_126403	NW_004517997.1	scaffold3254_2	126403	CC	AA	AA	INTERGENIC		
SNP_109008_A_127333	NW_004517997.1	scaffold3254_2	127333	TT	CC	CC	INTERGENIC		
SNP_109009_A_132663	NW_004517997.1	scaffold3254_2	132663	AA	GG	GG	DRR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109010_A_132721	NW_004517997.1	scaffold3254_2	132721	TT	AA	AA	DRR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109011_A_132805	NW_004517997.1	scaffold3254_2	132805	CC	AA	AA	DRR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109012_A_132902	NW_004517997.1	scaffold3254_2	132902	TT	AA	AA	DRR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109013_A_133063	NW_004517997.1	scaffold3254_2	133063	TT	AA	AA	DRR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109014_A_134798	NW_004517997.1	scaffold3254_2	134798	GG	TT	TT	URR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109015_A_134842	NW_004517997.1	scaffold3254_2	134842	TT	GG	GG	URR	101497736	14 kDa proline-rich protein DC2.15-like
SNP_109016_A_138444	NW_004517997.1	scaffold3254_2	138444	GG	TT	TT	INTERGENIC		
SNP_109017_A_138445	NW_004517997.1	scaffold3254_2	138445	CC	TT	TT	INTERGENIC		
SNP_109018_A_138459	NW_004517997.1	scaffold3254_2	138459	AA	GG	GG	INTERGENIC		
SNP_109019_A_140169	NW_004517997.1	scaffold3254_2	140169	AA	TT	TT	INTERGENIC		
SNP_109020_A_140632	NW_004517997.1	scaffold3254_2	140632	TT	GG	GG	INTERGENIC		
SNP_109021_A_140827	NW_004517997.1	scaffold3254_2	140827	AA	TT	TT	INTERGENIC		
SNP_109022_A_141201	NW_004517997.1	scaffold3254_2	141201	TT	GG	GG	INTERGENIC		
SNP_109023_A_143645	NW_004517997.1	scaffold3254_2	143645	TT	AA	AA	INTERGENIC		
SNP_109024_A_147417	NW_004517997.1	scaffold3254_2	147417	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109025_A_147484	NW_004517997.1	scaffold3254_2	147484	GG	AA	AA	INTERGENIC		
SNP_109026_A_147642	NW_004517997.1	scaffold3254_2	147642	CC	TT	TT	INTERGENIC		
SNP_109028_A_150171	NW_004517997.1	scaffold3254_2	150171	TT	CC	CC	INTERGENIC		
SNP_109029_A_150183	NW_004517997.1	scaffold3254_2	150183	CC	TT	TT	INTERGENIC		
SNP_109030_A_150196	NW_004517997.1	scaffold3254_2	150196	CC	TT	TT	INTERGENIC		
SNP_109031_A_150202	NW_004517997.1	scaffold3254_2	150202	AA	GG	GG	INTERGENIC		
SNP_109032_A_150240	NW_004517997.1	scaffold3254_2	150240	CC	AA	AA	INTERGENIC		
SNP_109033_A_150321	NW_004517997.1	scaffold3254_2	150321	GG	TT	TT	INTERGENIC		
SNP_109034_A_150377	NW_004517997.1	scaffold3254_2	150377	CC	TT	TT	INTERGENIC		
SNP_109035_A_150380	NW_004517997.1	scaffold3254_2	150380	GG	AA	AA	INTERGENIC		
SNP_109036_A_153591	NW_004517997.1	scaffold3254_2	153591	TT	CC	CC	INTERGENIC		
SNP_109037_A_154502	NW_004517997.1	scaffold3254_2	154502	TT	CC	CC	INTERGENIC		
SNP_109038_A_158125	NW_004517997.1	scaffold3254_2	158125	GG	AA	AA	INTRON	101498062	protein NRT1/ PTR FAMILY 6.3
SNP_109039_A_159036	NW_004517997.1	scaffold3254_2	159036	CC	GG	GG	NON_SYNONYMOUS_CODING	101498062	protein NRT1/ PTR FAMILY 6.3
SNP_109040_A_162527	NW_004517997.1	scaffold3254_2	162527	CC	TT	TT	INTRON	101498062	protein NRT1/ PTR FAMILY 6.3
SNP_109041_A_168822	NW_004517997.1	scaffold3254_2	168822	AA	GG	GG	INTERGENIC		
SNP_109042_A_168856	NW_004517997.1	scaffold3254_2	168856	TT	CC	CC	INTERGENIC		
SNP_109043_A_168897	NW_004517997.1	scaffold3254_2	168897	AA	GG	GG	INTERGENIC		
SNP_109044_A_169205	NW_004517997.1	scaffold3254_2	169205	CC	TT	TT	INTERGENIC		
SNP_109046_A_176561	NW_004517997.1	scaffold3254_2	176561	CC	GG	GG	INTRON	101498399	oxysterol-binding protein-related protein 2A
SNP_109047_A_176632	NW_004517997.1	scaffold3254_2	176632	CC	TT	TT	INTRON	101498399	oxysterol-binding protein-related protein 2A
SNP_109048_A_176966	NW_004517997.1	scaffold3254_2	176966	GG	TT	TT	INTRON	101498399	oxysterol-binding protein-related protein 2A

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109049_A_178196	NW_004517997.1	scaffold3254_2	178196	AA	TT	TT	INTRON	101498399	oxysterol-binding protein-related protein 2A
SNP_109050_A_180936	NW_004517997.1	scaffold3254_2	180936	CC	TT	TT	INTRON	101498399	oxysterol-binding protein-related protein 2A
SNP_109051_A_181942	NW_004517997.1	scaffold3254_2	181942	TT	AA	AA	INTRON	101498399	oxysterol-binding protein-related protein 2A
SNP_109053_A_186522	NW_004517997.1	scaffold3254_2	186522	CC	AA	AA	URR	101498399	oxysterol-binding protein-related protein 2A
SNP_109054_A_189858	NW_004517997.1	scaffold3254_2	189858	CC	AA	AA	INTERGENIC		
SNP_109055_A_194369	NW_004517997.1	scaffold3254_2	194369	TT	CC	CC	INTERGENIC		
SNP_109056_A_194753	NW_004517997.1	scaffold3254_2	194753	GG	TT	TT	INTERGENIC		
SNP_109057_A_194839	NW_004517997.1	scaffold3254_2	194839	TT	CC	CC	INTERGENIC		
SNP_109058_A_195887	NW_004517997.1	scaffold3254_2	195887	AA	TT	TT	INTERGENIC		
SNP_109059_A_195891	NW_004517997.1	scaffold3254_2	195891	CC	TT	TT	INTERGENIC		
SNP_109060_A_195901	NW_004517997.1	scaffold3254_2	195901	CC	TT	TT	INTERGENIC		
SNP_109062_A_197128	NW_004517997.1	scaffold3254_2	197128	CC	TT	TT	INTERGENIC		
SNP_109063_A_198569	NW_004517997.1	scaffold3254_2	198569	AA	GG	GG	INTERGENIC		
SNP_109064_A_198772	NW_004517997.1	scaffold3254_2	198772	AA	CC	CC	INTERGENIC		
SNP_109065_A_198978	NW_004517997.1	scaffold3254_2	198978	TT	CC	CC	INTERGENIC		
SNP_109066_A_202790	NW_004517997.1	scaffold3254_2	202790	TT	CC	CC	INTERGENIC		
SNP_109069_A_203365	NW_004517997.1	scaffold3254_2	203365	CC	GG	GG	INTERGENIC		
SNP_109071_A_204992	NW_004517997.1	scaffold3254_2	204992	AA	TT	TT	INTERGENIC		
SNP_109072_A_205043	NW_004517997.1	scaffold3254_2	205043	AA	TT	TT	INTERGENIC		
SNP_109073_A_205119	NW_004517997.1	scaffold3254_2	205119	TT	GG	GG	INTERGENIC		
SNP_109074_A_205136	NW_004517997.1	scaffold3254_2	205136	GG	TT	TT	INTERGENIC		
SNP_109075_A_205328	NW_004517997.1	scaffold3254_2	205328	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109077_A_215443	NW_004517997.1	scaffold3254_2	215443	AA	TT	TT	INTERGENIC		
SNP_109078_A_222931	NW_004517997.1	scaffold3254_2	222931	AA	CC	CC	INTERGENIC		
SNP_109079_A_223150	NW_004517997.1	scaffold3254_2	223150	CC	TT	TT	INTERGENIC		
SNP_109080_A_223191	NW_004517997.1	scaffold3254_2	223191	TT	CC	CC	INTERGENIC		
SNP_109081_A_223435	NW_004517997.1	scaffold3254_2	223435	AA	GG	GG	INTERGENIC		
SNP_109082_A_225451	NW_004517997.1	scaffold3254_2	225451	TT	CC	CC	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109083_A_225647	NW_004517997.1	scaffold3254_2	225647	AA	TT	TT	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109084_A_225653	NW_004517997.1	scaffold3254_2	225653	GG	AA	AA	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109085_A_225663	NW_004517997.1	scaffold3254_2	225663	TT	CC	CC	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109086_A_225678	NW_004517997.1	scaffold3254_2	225678	TT	CC	CC	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109087_A_225777	NW_004517997.1	scaffold3254_2	225777	AA	GG	GG	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109088_A_225781	NW_004517997.1	scaffold3254_2	225781	AA	TT	TT	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109089_A_225966	NW_004517997.1	scaffold3254_2	225966	CC	AA	AA	URR	101499678	adenine phosphoribosyltransferase 3
SNP_109090_A_234005	NW_004517997.1	scaffold3254_2	234005	CC	TT	TT	INTERGENIC		
SNP_109091_A_234384	NW_004517997.1	scaffold3254_2	234384	CC	TT	TT	INTERGENIC		
SNP_109092_A_238708	NW_004517997.1	scaffold3254_2	238708	GG	AA	AA	INTRON	101499987	probable trehalose-phosphate phosphatase F
SNP_109093_A_241996	NW_004517997.1	scaffold3254_2	241996	GG	AA	AA	INTRON	101499987	probable trehalose-phosphate phosphatase F
SNP_109094_A_244187	NW_004517997.1	scaffold3254_2	244187	CC	AA	AA	DRR	101500332	probable transaldolase
SNP_109095_A_244199	NW_004517997.1	scaffold3254_2	244199	AA	CC	CC	DRR	101500332	probable transaldolase
SNP_109097_A_244873	NW_004517997.1	scaffold3254_2	244873	CC	TT	TT	DRR	101500332	probable transaldolase
SNP_109099_A_251289	NW_004517997.1	scaffold3254_2	251289	AA	CC	CC	URR	101500332	probable transaldolase
SNP_109100_A_19467	NW_004518000.1	scaffold3258	19467	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109101_A_19506	NW_004518000.1	scaffold3258	19506	TT	CC	CC	INTERGENIC			
SNP_109102_A_29991	NW_004518000.1	scaffold3258	29991	AA	CC	CC	INTERGENIC			
SNP_109103_A_30321	NW_004518000.1	scaffold3258	30321	GG	TT	TT	INTERGENIC			
SNP_109104_A_33163	NW_004518000.1	scaffold3258	33163	AA	TT	TT	INTERGENIC			
SNP_109105_A_33172	NW_004518000.1	scaffold3258	33172	CC	AA	AA	INTERGENIC			
SNP_109106_A_33848	NW_004518000.1	scaffold3258	33848	TT	AA	AA	INTERGENIC			
SNP_109109_A_34532	NW_004518000.1	scaffold3258	34532	CC	GG	GG	INTERGENIC			
SNP_109111_A_34962	NW_004518000.1	scaffold3258	34962	GG	TT	TT	INTERGENIC			
SNP_109112_A_35548	NW_004518000.1	scaffold3258	35548	CC	TT	TT	INTERGENIC			
SNP_109113_A_35645	NW_004518000.1	scaffold3258	35645	CC	GG	GG	INTERGENIC			
SNP_109114_A_35853	NW_004518000.1	scaffold3258	35853	GG	TT	TT	INTERGENIC			
SNP_109115_A_35971	NW_004518000.1	scaffold3258	35971	TT	CC	CC	INTERGENIC			
SNP_109116_A_37354	NW_004518000.1	scaffold3258	37354	TT	CC	CC	INTERGENIC			
SNP_109117_A_37653	NW_004518000.1	scaffold3258	37653	GG	AA	AA	INTERGENIC			
SNP_109118_A_37765	NW_004518000.1	scaffold3258	37765	TT	CC	CC	INTERGENIC			
SNP_109119_A_37949	NW_004518000.1	scaffold3258	37949	TT	AA	AA	INTERGENIC			
SNP_109120_A_37950	NW_004518000.1	scaffold3258	37950	TT	AA	AA	INTERGENIC			
SNP_109121_A_39777	NW_004518000.1	scaffold3258	39777	TT	CC	CC	INTERGENIC			
SNP_109122_A_40324	NW_004518000.1	scaffold3258	40324	CC	AA	AA	INTERGENIC			
SNP_109123_A_41261	NW_004518000.1	scaffold3258	41261	TT	CC	CC	INTERGENIC			
SNP_109124_A_41387	NW_004518000.1	scaffold3258	41387	AA	GG	GG	INTERGENIC			
SNP_109126_A_41507	NW_004518000.1	scaffold3258	41507	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109127_A_41840	NW_004518000.1	scaffold3258	41840	AA	GG	GG	INTERGENIC			
SNP_109128_A_41841	NW_004518000.1	scaffold3258	41841	TT	AA	AA	INTERGENIC			
SNP_109129_A_42948	NW_004518000.1	scaffold3258	42948	AA	GG	GG	INTERGENIC			
SNP_109130_A_43898	NW_004518000.1	scaffold3258	43898	GG	TT	TT	INTERGENIC			
SNP_109131_A_45551	NW_004518000.1	scaffold3258	45551	GG	AA	AA	INTERGENIC			
SNP_109132_A_45976	NW_004518000.1	scaffold3258	45976	TT	GG	GG	INTERGENIC			
SNP_109133_A_46494	NW_004518000.1	scaffold3258	46494	CC	TT	TT	INTERGENIC			
SNP_109135_A_46975	NW_004518000.1	scaffold3258	46975	CC	AA	AA	INTERGENIC			
SNP_109136_A_47285	NW_004518000.1	scaffold3258	47285	CC	TT	TT	INTERGENIC			
SNP_109137_A_47685	NW_004518000.1	scaffold3258	47685	GG	TT	TT	INTERGENIC			
SNP_109138_A_47686	NW_004518000.1	scaffold3258	47686	CC	TT	TT	INTERGENIC			
SNP_109139_A_48327	NW_004518000.1	scaffold3258	48327	AA	CC	CC	INTERGENIC			
SNP_109140_A_48607	NW_004518000.1	scaffold3258	48607	GG	AA	AA	INTERGENIC			
SNP_109141_A_48687	NW_004518000.1	scaffold3258	48687	GG	AA	AA	INTERGENIC			
SNP_109142_A_48806	NW_004518000.1	scaffold3258	48806	TT	AA	AA	INTERGENIC			
SNP_109144_A_48971	NW_004518000.1	scaffold3258	48971	GG	AA	AA	INTERGENIC			
SNP_109146_A_52403	NW_004518000.1	scaffold3258	52403	AA	CC	CC	INTERGENIC			
SNP_109147_A_52453	NW_004518000.1	scaffold3258	52453	TT	GG	GG	INTERGENIC			
SNP_109148_A_52740	NW_004518000.1	scaffold3258	52740	TT	CC	CC	INTERGENIC			
SNP_109149_A_54397	NW_004518000.1	scaffold3258	54397	TT	AA	AA	INTERGENIC			
SNP_109150_A_55436	NW_004518000.1	scaffold3258	55436	GG	AA	AA	INTERGENIC			
SNP_109151_A_55923	NW_004518000.1	scaffold3258	55923	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109152_A_55924	NW_004518000.1	scaffold3258	55924	AA	TT	TT	INTERGENIC			
SNP_109153_A_58295	NW_004518000.1	scaffold3258	58295	CC	TT	TT	INTERGENIC			
SNP_109154_A_58359	NW_004518000.1	scaffold3258	58359	GG	AA	AA	INTERGENIC			
SNP_109155_A_58755	NW_004518000.1	scaffold3258	58755	TT	CC	CC	INTERGENIC			
SNP_109156_A_59048	NW_004518000.1	scaffold3258	59048	AA	GG	GG	INTERGENIC			
SNP_109157_A_66087	NW_004518000.1	scaffold3258	66087	AA	GG	GG	INTERGENIC			
SNP_109158_A_66521	NW_004518000.1	scaffold3258	66521	AA	GG	GG	INTERGENIC			
SNP_109160_A_68069	NW_004518000.1	scaffold3258	68069	AA	GG	GG	INTERGENIC			
SNP_109161_A_68820	NW_004518000.1	scaffold3258	68820	TT	CC	CC	INTERGENIC			
SNP_109162_A_69007	NW_004518000.1	scaffold3258	69007	GG	AA	AA	INTERGENIC			
SNP_109163_A_69138	NW_004518000.1	scaffold3258	69138	TT	AA	AA	INTERGENIC			
SNP_109164_A_69711	NW_004518000.1	scaffold3258	69711	AA	GG	GG	INTERGENIC			
SNP_109165_A_70440	NW_004518000.1	scaffold3258	70440	GG	AA	AA	INTERGENIC			
SNP_109166_A_70787	NW_004518000.1	scaffold3258	70787	AA	GG	GG	INTERGENIC			
SNP_109167_A_71125	NW_004518000.1	scaffold3258	71125	GG	AA	AA	INTERGENIC			
SNP_109168_A_71495	NW_004518000.1	scaffold3258	71495	TT	AA	AA	INTERGENIC			
SNP_109169_A_71849	NW_004518000.1	scaffold3258	71849	TT	AA	AA	INTERGENIC			
SNP_109170_A_73983	NW_004518000.1	scaffold3258	73983	AA	GG	GG	INTERGENIC			
SNP_109172_A_74077	NW_004518000.1	scaffold3258	74077	CC	TT	TT	INTERGENIC			
SNP_109173_A_74258	NW_004518000.1	scaffold3258	74258	GG	AA	AA	INTERGENIC			
SNP_109174_A_74576	NW_004518000.1	scaffold3258	74576	CC	TT	TT	INTERGENIC			
SNP_109176_A_75855	NW_004518000.1	scaffold3258	75855	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109177_A_76160	NW_004518000.1	scaffold3258	76160	CC	TT	TT	INTERGENIC			
SNP_109178_A_76996	NW_004518000.1	scaffold3258	76996	GG	AA	AA	INTERGENIC			
SNP_109180_A_77245	NW_004518000.1	scaffold3258	77245	AA	GG	GG	INTERGENIC			
SNP_109181_A_77348	NW_004518000.1	scaffold3258	77348	CC	TT	TT	INTERGENIC			
SNP_109183_A_77742	NW_004518000.1	scaffold3258	77742	GG	AA	AA	INTERGENIC			
SNP_109184_A_78286	NW_004518000.1	scaffold3258	78286	AA	GG	GG	INTERGENIC			
SNP_109185_A_79437	NW_004518000.1	scaffold3258	79437	TT	CC	CC	INTERGENIC			
SNP_109186_A_79458	NW_004518000.1	scaffold3258	79458	CC	GG	GG	INTERGENIC			
SNP_109187_A_79462	NW_004518000.1	scaffold3258	79462	GG	TT	TT	INTERGENIC			
SNP_109188_A_79513	NW_004518000.1	scaffold3258	79513	AA	GG	GG	INTERGENIC			
SNP_109189_A_79516	NW_004518000.1	scaffold3258	79516	TT	AA	AA	INTERGENIC			
SNP_109190_A_79520	NW_004518000.1	scaffold3258	79520	GG	CC	CC	INTERGENIC			
SNP_109191_A_79544	NW_004518000.1	scaffold3258	79544	TT	CC	CC	INTERGENIC			
SNP_109192_A_79585	NW_004518000.1	scaffold3258	79585	CC	TT	TT	INTERGENIC			
SNP_109193_A_79588	NW_004518000.1	scaffold3258	79588	TT	GG	GG	INTERGENIC			
SNP_109194_A_79607	NW_004518000.1	scaffold3258	79607	AA	TT	TT	INTERGENIC			
SNP_109195_A_79618	NW_004518000.1	scaffold3258	79618	AA	GG	GG	INTERGENIC			
SNP_109196_A_79630	NW_004518000.1	scaffold3258	79630	TT	GG	GG	INTERGENIC			
SNP_109197_A_79649	NW_004518000.1	scaffold3258	79649	AA	TT	TT	INTERGENIC			
SNP_109198_A_79651	NW_004518000.1	scaffold3258	79651	AA	CC	CC	INTERGENIC			
SNP_109199_A_79663	NW_004518000.1	scaffold3258	79663	CC	TT	TT	INTERGENIC			
SNP_109200_A_79821	NW_004518000.1	scaffold3258	79821	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109201_A_80273	NW_004518000.1	scaffold3258	80273	GG	AA	AA	INTERGENIC			
SNP_109202_A_80657	NW_004518000.1	scaffold3258	80657	TT	AA	AA	INTERGENIC			
SNP_109203_A_81266	NW_004518000.1	scaffold3258	81266	TT	CC	CC	INTERGENIC			
SNP_109204_A_81385	NW_004518000.1	scaffold3258	81385	AA	TT	TT	INTERGENIC			
SNP_109206_A_81518	NW_004518000.1	scaffold3258	81518	TT	GG	GG	INTERGENIC			
SNP_109207_A_81857	NW_004518000.1	scaffold3258	81857	TT	CC	CC	INTERGENIC			
SNP_109208_A_82528	NW_004518000.1	scaffold3258	82528	TT	AA	AA	INTERGENIC			
SNP_109209_A_82907	NW_004518000.1	scaffold3258	82907	GG	TT	TT	INTERGENIC			
SNP_109210_A_83145	NW_004518000.1	scaffold3258	83145	AA	GG	GG	INTERGENIC			
SNP_109211_A_83180	NW_004518000.1	scaffold3258	83180	AA	GG	GG	INTERGENIC			
SNP_109212_A_84134	NW_004518000.1	scaffold3258	84134	TT	CC	CC	INTERGENIC			
SNP_109213_A_84286	NW_004518000.1	scaffold3258	84286	TT	GG	GG	INTERGENIC			
SNP_109214_A_84387	NW_004518000.1	scaffold3258	84387	AA	CC	CC	INTERGENIC			
SNP_109215_A_85585	NW_004518000.1	scaffold3258	85585	GG	CC	CC	INTERGENIC			
SNP_109216_A_86275	NW_004518000.1	scaffold3258	86275	AA	TT	TT	INTERGENIC			
SNP_109217_A_87911	NW_004518000.1	scaffold3258	87911	TT	AA	AA	INTERGENIC			
SNP_109218_A_88172	NW_004518000.1	scaffold3258	88172	CC	GG	GG	INTERGENIC			
SNP_109219_A_89097	NW_004518000.1	scaffold3258	89097	TT	GG	GG	INTERGENIC			
SNP_109220_A_89509	NW_004518000.1	scaffold3258	89509	AA	GG	GG	INTERGENIC			
SNP_109221_A_89784	NW_004518000.1	scaffold3258	89784	TT	GG	GG	INTERGENIC			
SNP_109222_A_92093	NW_004518000.1	scaffold3258	92093	AA	CC	CC	DRR	101501596	tropinone reductase homolog At5g06060-like	
SNP_109223_A_92310	NW_004518000.1	scaffold3258	92310	CC	GG	GG	DRR	101501596	tropinone reductase homolog At5g06060-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109224_A_93007	NW_004518000.1	scaffold3258	93007	TT	GG	GG	DRR	101501907	Unknown function
SNP_109225_A_93271	NW_004518000.1	scaffold3258	93271	AA	TT	TT	URR	101501596	tropinone reductase homolog At5g06060-like
SNP_109226_A_1091	NW_004518001.1	scaffold3259	1091	TT	GG	GG	INTERGENIC		
SNP_109227_A_2569	NW_004518005.1	scaffold3272	2569	AA	GG	GG	INTERGENIC		
SNP_109228_A_2775	NW_004518005.1	scaffold3272	2775	TT	GG	GG	INTERGENIC		
SNP_109229_A_554	NW_004518009.1	scaffold3276	554	TT	CC	CC	INTERGENIC		
SNP_109230_A_2157	NW_004518010.1	scaffold3277	2157	GG	AA	AA	INTERGENIC		
SNP_109231_A_2172	NW_004518010.1	scaffold3277	2172	GG	AA	AA	INTERGENIC		
SNP_109232_A_2223	NW_004518010.1	scaffold3277	2223	CC	TT	TT	INTERGENIC		
SNP_109233_A_2411	NW_004518010.1	scaffold3277	2411	AA	GG	GG	INTERGENIC		
SNP_109234_A_2414	NW_004518010.1	scaffold3277	2414	GG	AA	AA	INTERGENIC		
SNP_109236_A_17587	NW_004518013.1	scaffold3280	17587	TT	GG	GG	INTERGENIC		
SNP_109237_A_17597	NW_004518013.1	scaffold3280	17597	TT	CC	CC	INTERGENIC		
SNP_109238_A_19478	NW_004518013.1	scaffold3280	19478	CC	TT	TT	INTERGENIC		
SNP_109239_A_20294	NW_004518013.1	scaffold3280	20294	AA	GG	GG	INTERGENIC		
SNP_109240_A_20322	NW_004518013.1	scaffold3280	20322	TT	CC	CC	INTERGENIC		
SNP_109241_A_23269	NW_004518013.1	scaffold3280	23269	CC	AA	AA	INTRON	101502235	uncharacterized LOC101502235
SNP_109242_A_30670	NW_004518013.1	scaffold3280	30670	GG	AA	AA	INTERGENIC		
SNP_109243_A_36812	NW_004518013.1	scaffold3280	36812	AA	CC	CC	INTERGENIC		
SNP_109244_A_37048	NW_004518013.1	scaffold3280	37048	TT	CC	CC	INTERGENIC		
SNP_109245_A_37231	NW_004518013.1	scaffold3280	37231	CC	AA	AA	INTERGENIC		
SNP_109246_A_37385	NW_004518013.1	scaffold3280	37385	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109247_A_42839	NW_004518013.1	scaffold3280	42839	TT	CC	CC	INTERGENIC		
SNP_109248_A_65062	NW_004518013.1	scaffold3280	65062	AA	GG	GG	INTERGENIC		
SNP_109249_A_65120	NW_004518013.1	scaffold3280	65120	AA	GG	GG	INTERGENIC		
SNP_109250_A_65143	NW_004518013.1	scaffold3280	65143	CC	TT	TT	INTERGENIC		
SNP_109251_A_116633	NW_004518013.1	scaffold3280	116633	AA	GG	GG	INTERGENIC		
SNP_109252_A_116980	NW_004518013.1	scaffold3280	116980	TT	CC	CC	INTERGENIC		
SNP_109253_A_116982	NW_004518013.1	scaffold3280	116982	AA	TT	TT	INTERGENIC		
SNP_109254_A_981	NW_004518014.1	scaffold3281	981	CC	GG	GG	INTERGENIC		
SNP_109255_A_1237	NW_004518016.1	scaffold3283	1237	GG	AA	AA	INTERGENIC		
SNP_109256_A_28783	NW_004518016.1	scaffold3283	28783	TT	AA	AA	INTERGENIC		
SNP_109257_A_45740	NW_004518016.1	scaffold3283	45740	AA	GG	GG	INTERGENIC		
SNP_109258_A_76923	NW_004518016.1	scaffold3283	76923	TT	CC	CC	DRR	101502868	uncharacterized LOC101502868
SNP_109259_A_77218	NW_004518016.1	scaffold3283	77218	GG	AA	AA	DRR	101502868	uncharacterized LOC101502868
SNP_109260_A_77226	NW_004518016.1	scaffold3283	77226	CC	TT	TT	DRR	101502868	uncharacterized LOC101502868
SNP_109261_A_500	NW_004518017.1	scaffold3284	500	AA	GG	GG	DRR	101503849	uncharacterized LOC101503849
SNP_109262_A_546	NW_004518017.1	scaffold3284	546	GG	TT	TT	DRR	101503849	uncharacterized LOC101503849
SNP_109263_A_739	NW_004518017.1	scaffold3284	739	TT	GG	GG	DRR	101503849	uncharacterized LOC101503849
SNP_109264_A_767	NW_004518017.1	scaffold3284	767	CC	AA	AA	DRR	101503849	uncharacterized LOC101503849
SNP_109265_A_784	NW_004518017.1	scaffold3284	784	TT	CC	CC	DRR	101503849	uncharacterized LOC101503849
SNP_109266_A_845	NW_004518017.1	scaffold3284	845	TT	CC	CC	SYNONYMOUS_CODING	101503849	uncharacterized LOC101503849
SNP_109267_A_900	NW_004518017.1	scaffold3284	900	AA	CC	CC	NON_SYNONYMOUS_CODING	101503849	uncharacterized LOC101503849
SNP_109268_A_2705	NW_004518017.1	scaffold3284	2705	CC	TT	TT	NON_SYNONYMOUS_CODING	101503849	uncharacterized LOC101503849

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109269_A_2723	NW_004518017.1	scaffold3284	2723	CC	TT	TT	STOP_GAINED	101503849	uncharacterized LOC101503849
SNP_109270_A_7296	NW_004518023.1	scaffold3293	7296	TT	CC	CC	INTERGENIC		
SNP_109271_A_7340	NW_004518023.1	scaffold3293	7340	AA	GG	GG	INTERGENIC		
SNP_109272_A_7699	NW_004518023.1	scaffold3293	7699	CC	TT	TT	INTERGENIC		
SNP_109273_A_9990	NW_004518023.1	scaffold3293	9990	TT	AA	AA	INTERGENIC		
SNP_109274_A_9993	NW_004518023.1	scaffold3293	9993	AA	TT	TT	INTERGENIC		
SNP_109275_A_9999	NW_004518023.1	scaffold3293	9999	GG	AA	AA	INTERGENIC		
SNP_109276_A_14032	NW_004518023.1	scaffold3293	14032	AA	GG	GG	INTERGENIC		
SNP_109277_A_14445	NW_004518023.1	scaffold3293	14445	CC	TT	TT	INTERGENIC		
SNP_109278_A_1069	NW_004518024.1	scaffold3297	1069	GG	AA	AA	INTERGENIC		
SNP_109279_A_382	NW_004518031.1	scaffold3307	382	GG	TT	TT	INTERGENIC		
SNP_109280_A_416	NW_004518031.1	scaffold3307	416	AA	TT	TT	INTERGENIC		
SNP_109281_A_694	NW_004518031.1	scaffold3307	694	AA	GG	GG	INTERGENIC		
SNP_109282_A_726	NW_004518031.1	scaffold3307	726	AA	GG	GG	INTERGENIC		
SNP_109283_A_2451	NW_004518031.1	scaffold3307	2451	AA	CC	CC	INTERGENIC		
SNP_109284_A_3810	NW_004518031.1	scaffold3307	3810	GG	AA	AA	INTERGENIC		
SNP_109285_A_3918	NW_004518031.1	scaffold3307	3918	TT	CC	CC	INTERGENIC		
SNP_109286_A_5125	NW_004518031.1	scaffold3307	5125	AA	GG	GG	INTERGENIC		
SNP_109287_A_5221	NW_004518031.1	scaffold3307	5221	GG	TT	TT	INTERGENIC		
SNP_109288_A_5222	NW_004518031.1	scaffold3307	5222	AA	TT	TT	INTERGENIC		
SNP_109289_A_5257	NW_004518031.1	scaffold3307	5257	CC	TT	TT	INTERGENIC		
SNP_109290_A_5282	NW_004518031.1	scaffold3307	5282	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109291_A_5309	NW_004518031.1	scaffold3307	5309	GG	CC	CC	INTERGENIC			
SNP_109292_A_5349	NW_004518031.1	scaffold3307	5349	CC	TT	TT	INTERGENIC			
SNP_109293_A_9886	NW_004518031.1	scaffold3307	9886	AA	GG	GG	INTERGENIC			
SNP_109294_A_9958	NW_004518031.1	scaffold3307	9958	TT	AA	AA	INTERGENIC			
SNP_109295_A_10379	NW_004518031.1	scaffold3307	10379	CC	TT	TT	INTERGENIC			
SNP_109296_A_10394	NW_004518031.1	scaffold3307	10394	TT	CC	CC	INTERGENIC			
SNP_109297_A_10666	NW_004518031.1	scaffold3307	10666	AA	GG	GG	INTERGENIC			
SNP_109298_A_10678	NW_004518031.1	scaffold3307	10678	TT	GG	GG	INTERGENIC			
SNP_109299_A_10996	NW_004518031.1	scaffold3307	10996	CC	TT	TT	INTERGENIC			
SNP_109300_A_11029	NW_004518031.1	scaffold3307	11029	CC	TT	TT	INTERGENIC			
SNP_109301_A_11030	NW_004518031.1	scaffold3307	11030	TT	GG	GG	INTERGENIC			
SNP_109302_A_11057	NW_004518031.1	scaffold3307	11057	CC	TT	TT	INTERGENIC			
SNP_109303_A_11339	NW_004518031.1	scaffold3307	11339	TT	CC	CC	INTERGENIC			
SNP_109304_A_13017	NW_004518031.1	scaffold3307	13017	TT	GG	GG	INTERGENIC			
SNP_109305_A_13110	NW_004518031.1	scaffold3307	13110	AA	GG	GG	INTERGENIC			
SNP_109306_A_13366	NW_004518031.1	scaffold3307	13366	GG	AA	AA	INTERGENIC			
SNP_109307_A_13413	NW_004518031.1	scaffold3307	13413	GG	AA	AA	INTERGENIC			
SNP_109308_A_17799	NW_004518031.1	scaffold3307	17799	CC	GG	GG	INTERGENIC			
SNP_109309_A_17905	NW_004518031.1	scaffold3307	17905	GG	TT	TT	INTERGENIC			
SNP_109310_A_17907	NW_004518031.1	scaffold3307	17907	CC	GG	GG	INTERGENIC			
SNP_109311_A_17990	NW_004518031.1	scaffold3307	17990	TT	AA	AA	INTERGENIC			
SNP_109312_A_18292	NW_004518031.1	scaffold3307	18292	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109313_A_18346	NW_004518031.1	scaffold3307	18346	AA	GG	GG	INTERGENIC			
SNP_109314_A_22132	NW_004518031.1	scaffold3307	22132	GG	AA	AA	INTERGENIC			
SNP_109315_A_22208	NW_004518031.1	scaffold3307	22208	CC	TT	TT	INTERGENIC			
SNP_109316_A_22264	NW_004518031.1	scaffold3307	22264	AA	GG	GG	INTERGENIC			
SNP_109317_A_22343	NW_004518031.1	scaffold3307	22343	AA	GG	GG	INTERGENIC			
SNP_109318_A_22367	NW_004518031.1	scaffold3307	22367	CC	TT	TT	INTERGENIC			
SNP_109319_A_22453	NW_004518031.1	scaffold3307	22453	TT	CC	CC	INTERGENIC			
SNP_109320_A_22542	NW_004518031.1	scaffold3307	22542	TT	AA	AA	INTERGENIC			
SNP_109321_A_22629	NW_004518031.1	scaffold3307	22629	GG	AA	AA	INTERGENIC			
SNP_109322_A_5603	NW_004518038.1	scaffold3314	5603	GG	AA	AA	INTERGENIC			
SNP_109323_A_5660	NW_004518038.1	scaffold3314	5660	GG	AA	AA	INTERGENIC			
SNP_109325_A_5829	NW_004518038.1	scaffold3314	5829	CC	TT	TT	INTERGENIC			
SNP_109326_A_5832	NW_004518038.1	scaffold3314	5832	CC	GG	GG	INTERGENIC			
SNP_109327_A_5883	NW_004518038.1	scaffold3314	5883	TT	AA	AA	INTERGENIC			
SNP_109328_A_6667	NW_004518038.1	scaffold3314	6667	CC	TT	TT	INTERGENIC			
SNP_109329_A_7068	NW_004518038.1	scaffold3314	7068	TT	CC	CC	INTERGENIC			
SNP_109330_A_7135	NW_004518038.1	scaffold3314	7135	TT	CC	CC	INTERGENIC			
SNP_109331_A_7348	NW_004518038.1	scaffold3314	7348	AA	TT	TT	INTERGENIC			
SNP_109333_A_7435	NW_004518038.1	scaffold3314	7435	CC	TT	TT	INTERGENIC			
SNP_109334_A_7452	NW_004518038.1	scaffold3314	7452	TT	CC	CC	INTERGENIC			
SNP_109335_A_7453	NW_004518038.1	scaffold3314	7453	AA	GG	GG	INTERGENIC			
SNP_109336_A_7540	NW_004518038.1	scaffold3314	7540	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109337_A_7588	NW_004518038.1	scaffold3314	7588	GG	TT	TT	INTERGENIC		
SNP_109338_A_7717	NW_004518038.1	scaffold3314	7717	AA	GG	GG	INTERGENIC		
SNP_109339_A_7797	NW_004518038.1	scaffold3314	7797	TT	CC	CC	INTERGENIC		
SNP_109340_A_7801	NW_004518038.1	scaffold3314	7801	AA	TT	TT	INTERGENIC		
SNP_109341_A_7809	NW_004518038.1	scaffold3314	7809	TT	CC	CC	INTERGENIC		
SNP_109342_A_7919	NW_004518038.1	scaffold3314	7919	AA	GG	GG	INTERGENIC		
SNP_109343_A_7986	NW_004518038.1	scaffold3314	7986	TT	CC	CC	INTERGENIC		
SNP_109344_A_7995	NW_004518038.1	scaffold3314	7995	AA	CC	CC	INTERGENIC		
SNP_109345_A_287	NW_004518041.1	scaffold3317	287	CC	GG	GG	INTERGENIC		
SNP_109346_A_294	NW_004518041.1	scaffold3317	294	AA	CC	CC	INTERGENIC		
SNP_109347_A_299	NW_004518041.1	scaffold3317	299	TT	GG	GG	INTERGENIC		
SNP_109348_A_325	NW_004518041.1	scaffold3317	325	AA	CC	CC	INTERGENIC		
SNP_109350_A_773	NW_004518041.1	scaffold3317	773	CC	TT	TT	INTERGENIC		
SNP_109351_A_3329	NW_004518041.1	scaffold3317	3329	GG	TT	TT	INTERGENIC		
SNP_109353_A_24071	NW_004518043.1	scaffold3321	24071	GG	AA	AA	INTERGENIC		
SNP_109354_A_25863	NW_004518043.1	scaffold3321	25863	AA	GG	GG	NON_SYNONYMOUS_CODING	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109355_A_26431	NW_004518043.1	scaffold3321	26431	GG	CC	CC	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109356_A_26464	NW_004518043.1	scaffold3321	26464	GG	AA	AA	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109357_A_26496	NW_004518043.1	scaffold3321	26496	CC	AA	AA	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109358_A_26734	NW_004518043.1	scaffold3321	26734	TT	CC	CC	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109359_A_26760	NW_004518043.1	scaffold3321	26760	TT	GG	GG	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109360_A_26776	NW_004518043.1	scaffold3321	26776	GG	AA	AA	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109361_A_26783	NW_004518043.1	scaffold3321	26783	TT	CC	CC	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109362_A_26791	NW_004518043.1	scaffold3321	26791	AA	GG	GG	INTRON	101504162	1-aminocyclopropane-1-carboxylate oxidase homolog 1-like
SNP_109363_A_33129	NW_004518043.1	scaffold3321	33129	AA	GG	GG	NON_SYNONYMOUS_CODING	101504486	vacuolar protein-sorting-associated protein 11 homolog
SNP_109364_A_34383	NW_004518043.1	scaffold3321	34383	AA	GG	GG	INTRON	101504486	vacuolar protein-sorting-associated protein 11 homolog
SNP_109365_A_35278	NW_004518043.1	scaffold3321	35278	AA	GG	GG	SYNONYMOUS_CODING	101504486	vacuolar protein-sorting-associated protein 11 homolog
SNP_109366_A_35281	NW_004518043.1	scaffold3321	35281	GG	AA	AA	SYNONYMOUS_CODING	101504486	vacuolar protein-sorting-associated protein 11 homolog
SNP_109367_A_35421	NW_004518043.1	scaffold3321	35421	AA	GG	GG	INTERGENIC		
SNP_109369_A_37036	NW_004518043.1	scaffold3321	37036	AA	GG	GG	DRR	101504804	uncharacterized LOC101504804
SNP_109370_A_43220	NW_004518043.1	scaffold3321	43220	GG	TT	TT	INTRON	101504804	uncharacterized LOC101504804
SNP_109371_A_46258	NW_004518043.1	scaffold3321	46258	AA	GG	GG	INTRON	101504804	uncharacterized LOC101504804
SNP_109372_A_46887	NW_004518043.1	scaffold3321	46887	AA	CC	CC	INTRON	101504804	uncharacterized LOC101504804
SNP_109373_A_48834	NW_004518043.1	scaffold3321	48834	GG	TT	TT	INTRON	101504804	uncharacterized LOC101504804
SNP_109374_A_54699	NW_004518043.1	scaffold3321	54699	GG	AA	AA	INTRON	101504804	uncharacterized LOC101504804
SNP_109375_A_55074	NW_004518043.1	scaffold3321	55074	GG	TT	TT	INTRON	101504804	uncharacterized LOC101504804
SNP_109376_A_56188	NW_004518043.1	scaffold3321	56188	CC	TT	TT	SYNONYMOUS_CODING	101504804	uncharacterized LOC101504804
SNP_109377_A_57246	NW_004518043.1	scaffold3321	57246	TT	CC	CC	INTRON	101504804	uncharacterized LOC101504804
SNP_109379_A_60090	NW_004518043.1	scaffold3321	60090	CC	AA	AA	URR	101504804	uncharacterized LOC101504804
SNP_109380_A_60112	NW_004518043.1	scaffold3321	60112	TT	GG	GG	URR	101504804	uncharacterized LOC101504804
SNP_109381_A_60554	NW_004518043.1	scaffold3321	60554	AA	GG	GG	URR	101504804	uncharacterized LOC101504804
SNP_109382_A_61106	NW_004518043.1	scaffold3321	61106	CC	TT	TT	URR	101504804	uncharacterized LOC101504804
SNP_109384_A_64106	NW_004518043.1	scaffold3321	64106	TT	CC	CC	INTERGENIC		
SNP_109386_A_69353	NW_004518043.1	scaffold3321	69353	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109387_A_69576	NW_004518043.1	scaffold3321	69576	AA	GG	GG	INTERGENIC			
SNP_109388_A_69609	NW_004518043.1	scaffold3321	69609	GG	AA	AA	INTERGENIC			
SNP_109391_A_69836	NW_004518043.1	scaffold3321	69836	GG	AA	AA	INTERGENIC			
SNP_109392_A_69876	NW_004518043.1	scaffold3321	69876	GG	AA	AA	INTERGENIC			
SNP_109393_A_69884	NW_004518043.1	scaffold3321	69884	GG	AA	AA	INTERGENIC			
SNP_109395_A_5025	NW_004518044.1	scaffold3322	5025	CC	AA	AA	INTERGENIC			
SNP_109396_A_5370	NW_004518044.1	scaffold3322	5370	AA	TT	TT	INTERGENIC			
SNP_109397_A_8706	NW_004518045.1	scaffold3323	8706	GG	CC	CC	INTERGENIC			
SNP_109398_A_9373	NW_004518045.1	scaffold3323	9373	TT	CC	CC	INTERGENIC			
SNP_109399_A_3966	NW_004518050.1	scaffold3329	3966	TT	CC	CC	INTERGENIC			
SNP_109400_A_4203	NW_004518050.1	scaffold3329	4203	GG	AA	AA	INTERGENIC			
SNP_109401_A_31	NW_004518055.1	scaffold3336	31	CC	TT	TT	INTERGENIC			
SNP_109402_A_64	NW_004518055.1	scaffold3336	64	GG	AA	AA	INTERGENIC			
SNP_109403_A_99	NW_004518055.1	scaffold3336	99	GG	AA	AA	INTERGENIC			
SNP_109404_A_125	NW_004518055.1	scaffold3336	125	GG	AA	AA	INTERGENIC			
SNP_109405_A_131	NW_004518055.1	scaffold3336	131	TT	CC	CC	INTERGENIC			
SNP_109406_A_814	NW_004518055.1	scaffold3336	814	CC	TT	TT	INTERGENIC			
SNP_109407_A_850	NW_004518055.1	scaffold3336	850	AA	GG	GG	INTERGENIC			
SNP_109408_A_947	NW_004518055.1	scaffold3336	947	GG	AA	AA	INTERGENIC			
SNP_109411_A_63956	NW_004518055.1	scaffold3336	63956	AA	TT	TT	INTERGENIC			
SNP_109412_A_66813	NW_004518055.1	scaffold3336	66813	TT	AA	AA	INTERGENIC			
SNP_109413_A_2094	NW_004518064.1	scaffold3347	2094	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109414_A_2121	NW_004518064.1	scaffold3347	2121	CC	TT	TT	INTERGENIC			
SNP_109415_A_2142	NW_004518064.1	scaffold3347	2142	CC	TT	TT	INTERGENIC			
SNP_109416_A_2155	NW_004518064.1	scaffold3347	2155	CC	GG	GG	INTERGENIC			
SNP_109417_A_2161	NW_004518064.1	scaffold3347	2161	TT	AA	CC	INTERGENIC			
SNP_109418_A_2178	NW_004518064.1	scaffold3347	2178	AA	TT	TT	INTERGENIC			
SNP_109419_A_2179	NW_004518064.1	scaffold3347	2179	AA	TT	TT	INTERGENIC			
SNP_109420_A_2210	NW_004518064.1	scaffold3347	2210	AA	TT	TT	INTERGENIC			
SNP_109421_A_2340	NW_004518064.1	scaffold3347	2340	CC	TT	TT	INTERGENIC			
SNP_109422_A_2474	NW_004518064.1	scaffold3347	2474	TT	CC	CC	INTERGENIC			
SNP_109423_A_2477	NW_004518064.1	scaffold3347	2477	CC	GG	GG	INTERGENIC			
SNP_109424_A_2828	NW_004518064.1	scaffold3347	2828	GG	CC	CC	INTERGENIC			
SNP_109425_A_2875	NW_004518064.1	scaffold3347	2875	TT	GG	GG	INTERGENIC			
SNP_109426_A_823	NW_004518065.1	scaffold3348	823	TT	GG	GG	INTERGENIC			
SNP_109427_A_833	NW_004518065.1	scaffold3348	833	TT	AA	AA	INTERGENIC			
SNP_109428_A_457	NW_004518069.1	scaffold3353	457	AA	GG	GG	INTERGENIC			
SNP_109429_A_7218	NW_004518069.1	scaffold3353	7218	TT	GG	GG	INTERGENIC			
SNP_109430_A_7276	NW_004518069.1	scaffold3353	7276	TT	GG	GG	INTERGENIC			
SNP_109431_A_7313	NW_004518069.1	scaffold3353	7313	CC	TT	TT	INTERGENIC			
SNP_109432_A_7337	NW_004518069.1	scaffold3353	7337	GG	CC	CC	INTERGENIC			
SNP_109433_A_7403	NW_004518069.1	scaffold3353	7403	TT	CC	CC	INTERGENIC			
SNP_109434_A_159	NW_004518070.1	scaffold3354	159	TT	CC	CC	INTERGENIC			
SNP_109435_A_523	NW_004518070.1	scaffold3354	523	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109437_A_714	NW_004518070.1	scaffold3354	714	CC	TT	TT	INTERGENIC			
SNP_109438_A_1337	NW_004518070.1	scaffold3354	1337	GG	AA	AA	INTERGENIC			
SNP_109439_A_2197	NW_004518070.1	scaffold3354	2197	TT	AA	AA	INTERGENIC			
SNP_109440_A_2372	NW_004518070.1	scaffold3354	2372	AA	TT	TT	INTERGENIC			
SNP_109441_A_2373	NW_004518070.1	scaffold3354	2373	AA	TT	TT	INTERGENIC			
SNP_109442_A_2374	NW_004518070.1	scaffold3354	2374	TT	AA	AA	INTERGENIC			
SNP_109444_A_2709	NW_004518070.1	scaffold3354	2709	AA	GG	GG	INTERGENIC			
SNP_109445_A_2068	NW_004518073.1	scaffold3357	2068	TT	CC	CC	INTERGENIC			
SNP_109446_A_2205	NW_004518073.1	scaffold3357	2205	AA	CC	CC	INTERGENIC			
SNP_109447_A_2400	NW_004518073.1	scaffold3357	2400	GG	AA	AA	INTERGENIC			
SNP_109448_A_2499	NW_004518073.1	scaffold3357	2499	GG	CC	CC	INTERGENIC			
SNP_109449_A_95	NW_004518074.1	scaffold3359	95	GG	AA	AA	INTERGENIC			
SNP_109450_A_164	NW_004518074.1	scaffold3359	164	AA	TT	TT	INTERGENIC			
SNP_109451_A_197	NW_004518074.1	scaffold3359	197	AA	GG	GG	INTERGENIC			
SNP_109452_A_294	NW_004518074.1	scaffold3359	294	AA	GG	GG	INTERGENIC			
SNP_109453_A_296	NW_004518074.1	scaffold3359	296	CC	TT	TT	INTERGENIC			
SNP_109454_A_360	NW_004518074.1	scaffold3359	360	AA	CC	CC	INTERGENIC			
SNP_109455_A_371	NW_004518074.1	scaffold3359	371	AA	GG	GG	INTERGENIC			
SNP_109456_A_376	NW_004518074.1	scaffold3359	376	CC	GG	GG	INTERGENIC			
SNP_109457_A_450	NW_004518074.1	scaffold3359	450	AA	CC	CC	INTERGENIC			
SNP_109458_A_536	NW_004518074.1	scaffold3359	536	CC	TT	TT	INTERGENIC			
SNP_109459_A_605	NW_004518074.1	scaffold3359	605	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109460_A_607	NW_004518074.1	scaffold3359	607	TT	CC	CC	INTERGENIC			
SNP_109461_A_649	NW_004518074.1	scaffold3359	649	AA	GG	GG	INTERGENIC			
SNP_109462_A_1218	NW_004518076.1	scaffold3362	1218	TT	GG	GG	INTERGENIC			
SNP_109463_A_1255	NW_004518076.1	scaffold3362	1255	TT	CC	CC	INTERGENIC			
SNP_109464_A_1288	NW_004518076.1	scaffold3362	1288	AA	GG	GG	INTERGENIC			
SNP_109465_A_1312	NW_004518076.1	scaffold3362	1312	TT	GG	GG	INTERGENIC			
SNP_109466_A_1343	NW_004518076.1	scaffold3362	1343	TT	CC	CC	INTERGENIC			
SNP_109467_A_1356	NW_004518076.1	scaffold3362	1356	TT	GG	GG	INTERGENIC			
SNP_109468_A_1417	NW_004518076.1	scaffold3362	1417	CC	TT	TT	INTERGENIC			
SNP_109469_A_84251	NW_004518076.1	scaffold3362	84251	GG	AA	AA	INTERGENIC			
SNP_109470_A_88630	NW_004518076.1	scaffold3362	88630	AA	GG	GG	INTERGENIC			
SNP_109471_A_95682	NW_004518076.1	scaffold3362	95682	CC	TT	TT	INTERGENIC			
SNP_109472_A_109740	NW_004518076.1	scaffold3362	109740	CC	TT	TT	INTERGENIC			
SNP_109473_A_109838	NW_004518076.1	scaffold3362	109838	GG	AA	AA	INTERGENIC			
SNP_109474_A_109850	NW_004518076.1	scaffold3362	109850	AA	TT	TT	INTERGENIC			
SNP_109475_A_111817	NW_004518076.1	scaffold3362	111817	CC	TT	TT	INTERGENIC			
SNP_109476_A_111821	NW_004518076.1	scaffold3362	111821	TT	GG	GG	INTERGENIC			
SNP_109477_A_111865	NW_004518076.1	scaffold3362	111865	GG	TT	TT	INTERGENIC			
SNP_109478_A_110	NW_004518078.1	scaffold3364	110	TT	CC	CC	INTERGENIC			
SNP_109479_A_199	NW_004518078.1	scaffold3364	199	TT	CC	CC	INTERGENIC			
SNP_109480_A_213	NW_004518078.1	scaffold3364	213	GG	TT	TT	INTERGENIC			
SNP_109481_A_293	NW_004518078.1	scaffold3364	293	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109482_A_331	NW_004518078.1	scaffold3364	331	CC	TT	TT	INTERGENIC			
SNP_109483_A_551	NW_004518078.1	scaffold3364	551	CC	GG	GG	INTERGENIC			
SNP_109484_A_588	NW_004518078.1	scaffold3364	588	TT	AA	AA	INTERGENIC			
SNP_109485_A_649	NW_004518078.1	scaffold3364	649	AA	TT	TT	INTERGENIC			
SNP_109486_A_656	NW_004518078.1	scaffold3364	656	CC	TT	TT	INTERGENIC			
SNP_109487_A_691	NW_004518078.1	scaffold3364	691	AA	GG	GG	INTERGENIC			
SNP_109488_A_692	NW_004518078.1	scaffold3364	692	GG	TT	TT	INTERGENIC			
SNP_109489_A_11523	NW_004518078.1	scaffold3364	11523	AA	GG	GG	INTERGENIC			
SNP_109490_A_33070	NW_004518078.1	scaffold3364	33070	CC	AA	AA	INTERGENIC			
SNP_109492_A_35077	NW_004518078.1	scaffold3364	35077	AA	GG	GG	INTERGENIC			
SNP_109493_A_36001	NW_004518078.1	scaffold3364	36001	GG	AA	AA	INTERGENIC			
SNP_109494_A_37634	NW_004518078.1	scaffold3364	37634	GG	AA	AA	INTERGENIC			
SNP_109495_A_37911	NW_004518078.1	scaffold3364	37911	AA	GG	GG	INTERGENIC			
SNP_109496_A_38131	NW_004518078.1	scaffold3364	38131	AA	GG	GG	INTERGENIC			
SNP_109497_A_38334	NW_004518078.1	scaffold3364	38334	AA	GG	GG	INTERGENIC			
SNP_109498_A_42777	NW_004518078.1	scaffold3364	42777	CC	GG	GG	INTERGENIC			
SNP_109500_A_46962	NW_004518078.1	scaffold3364	46962	AA	TT	TT	INTERGENIC			
SNP_109501_A_48341	NW_004518078.1	scaffold3364	48341	GG	AA	AA	INTERGENIC			
SNP_109502_A_48945	NW_004518078.1	scaffold3364	48945	TT	CC	CC	INTERGENIC			
SNP_109503_A_50074	NW_004518078.1	scaffold3364	50074	TT	CC	CC	INTERGENIC			
SNP_109504_A_50106	NW_004518078.1	scaffold3364	50106	CC	TT	TT	INTERGENIC			
SNP_109505_A_50107	NW_004518078.1	scaffold3364	50107	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109506_A_50116	NW_004518078.1	scaffold3364	50116	GG	TT	TT	INTERGENIC			
SNP_109507_A_51108	NW_004518078.1	scaffold3364	51108	CC	AA	AA	INTERGENIC			
SNP_109508_A_5213	NW_004518079.1	scaffold3366	5213	GG	AA	AA	INTERGENIC			
SNP_109509_A_2597	NW_004518080.1	scaffold3368	2597	AA	CC	CC	INTERGENIC			
SNP_109510_A_2680	NW_004518080.1	scaffold3368	2680	TT	AA	AA	INTERGENIC			
SNP_109511_A_2988	NW_004518080.1	scaffold3368	2988	TT	AA	AA	INTERGENIC			
SNP_109512_A_3046	NW_004518080.1	scaffold3368	3046	GG	CC	CC	INTERGENIC			
SNP_109513_A_3060	NW_004518080.1	scaffold3368	3060	CC	TT	TT	INTERGENIC			
SNP_109514_A_16845	NW_004518081.1	scaffold3369	16845	CC	AA	AA	INTERGENIC			
SNP_109515_A_16874	NW_004518081.1	scaffold3369	16874	AA	GG	GG	INTERGENIC			
SNP_109516_A_17329	NW_004518081.1	scaffold3369	17329	GG	AA	AA	INTERGENIC			
SNP_109517_A_17686	NW_004518081.1	scaffold3369	17686	TT	AA	AA	INTERGENIC			
SNP_109518_A_17748	NW_004518081.1	scaffold3369	17748	TT	CC	CC	INTERGENIC			
SNP_109519_A_17845	NW_004518081.1	scaffold3369	17845	AA	CC	CC	INTERGENIC			
SNP_109520_A_17857	NW_004518081.1	scaffold3369	17857	AA	GG	GG	INTERGENIC			
SNP_109521_A_18098	NW_004518081.1	scaffold3369	18098	TT	CC	CC	INTERGENIC			
SNP_109522_A_18224	NW_004518081.1	scaffold3369	18224	CC	TT	TT	INTERGENIC			
SNP_109523_A_18555	NW_004518081.1	scaffold3369	18555	TT	CC	CC	INTERGENIC			
SNP_109525_A_19339	NW_004518081.1	scaffold3369	19339	GG	TT	TT	INTERGENIC			
SNP_109526_A_20416	NW_004518081.1	scaffold3369	20416	AA	GG	GG	INTERGENIC			
SNP_109527_A_20758	NW_004518081.1	scaffold3369	20758	AA	GG	GG	INTERGENIC			
SNP_109528_A_20912	NW_004518081.1	scaffold3369	20912	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109529_A_21020	NW_004518081.1	scaffold3369	21020	CC	TT	TT	INTERGENIC			
SNP_109532_A_19778	NW_004518082.1	scaffold3371	19778	TT	AA	AA	INTERGENIC			
SNP_109534_A_27906	NW_004518082.1	scaffold3371	27906	AA	CC	CC	INTERGENIC			
SNP_109535_A_27925	NW_004518082.1	scaffold3371	27925	AA	GG	GG	INTERGENIC			
SNP_109536_A_33641	NW_004518082.1	scaffold3371	33641	AA	GG	GG	INTERGENIC			
SNP_109537_A_33701	NW_004518082.1	scaffold3371	33701	AA	CC	CC	INTERGENIC			
SNP_109538_A_33812	NW_004518082.1	scaffold3371	33812	CC	TT	TT	INTERGENIC			
SNP_109539_A_33839	NW_004518082.1	scaffold3371	33839	GG	CC	CC	INTERGENIC			
SNP_109541_A_33907	NW_004518082.1	scaffold3371	33907	GG	TT	TT	INTERGENIC			
SNP_109542_A_33909	NW_004518082.1	scaffold3371	33909	CC	TT	TT	INTERGENIC			
SNP_109543_A_33910	NW_004518082.1	scaffold3371	33910	AA	GG	GG	INTERGENIC			
SNP_109544_A_33922	NW_004518082.1	scaffold3371	33922	TT	CC	CC	INTERGENIC			
SNP_109545_A_33926	NW_004518082.1	scaffold3371	33926	AA	GG	GG	INTERGENIC			
SNP_109546_A_33945	NW_004518082.1	scaffold3371	33945	CC	AA	AA	INTERGENIC			
SNP_109547_A_34156	NW_004518082.1	scaffold3371	34156	GG	AA	AA	INTERGENIC			
SNP_109548_A_34167	NW_004518082.1	scaffold3371	34167	TT	AA	AA	INTERGENIC			
SNP_109549_A_34205	NW_004518082.1	scaffold3371	34205	TT	CC	CC	INTERGENIC			
SNP_109550_A_34207	NW_004518082.1	scaffold3371	34207	TT	CC	CC	INTERGENIC			
SNP_109551_A_34243	NW_004518082.1	scaffold3371	34243	TT	CC	CC	INTERGENIC			
SNP_109552_A_34253	NW_004518082.1	scaffold3371	34253	GG	CC	CC	INTERGENIC			
SNP_109553_A_1085	NW_004518085.1	scaffold3377	1085	TT	GG	GG	INTERGENIC			
SNP_109554_A_1914	NW_004518088.1	scaffold3380	1914	TT	CC	CC	SYNONYMOUS_CODING	101507706	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109555_A_1945	NW_004518088.1	scaffold3380	1945	AA	GG	GG	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109556_A_1984	NW_004518088.1	scaffold3380	1984	AA	CC	CC	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109557_A_2026	NW_004518088.1	scaffold3380	2026	AA	GG	GG	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109558_A_2309	NW_004518088.1	scaffold3380	2309	TT	CC	CC	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109559_A_2310	NW_004518088.1	scaffold3380	2310	TT	CC	CC	SYNONYMOUS_CODING	101507706	Unknown function
SNP_109560_A_2313	NW_004518088.1	scaffold3380	2313	AA	GG	GG	SYNONYMOUS_CODING	101507706	Unknown function
SNP_109561_A_2344	NW_004518088.1	scaffold3380	2344	AA	GG	GG	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109562_A_2392	NW_004518088.1	scaffold3380	2392	AA	GG	GG	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109563_A_2406	NW_004518088.1	scaffold3380	2406	GG	AA	AA	SYNONYMOUS_CODING	101507706	Unknown function
SNP_109564_A_2426	NW_004518088.1	scaffold3380	2426	TT	CC	CC	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109565_A_2439	NW_004518088.1	scaffold3380	2439	CC	TT	TT	SYNONYMOUS_CODING	101507706	Unknown function
SNP_109566_A_2509	NW_004518088.1	scaffold3380	2509	AA	GG	GG	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109567_A_2516	NW_004518088.1	scaffold3380	2516	AA	CC	CC	NON_SYNONYMOUS_CODING	101507706	Unknown function
SNP_109568_A_3920	NW_004518088.1	scaffold3380	3920	TT	CC	CC	URR	101507706	Unknown function
SNP_109569_A_3933	NW_004518088.1	scaffold3380	3933	AA	GG	GG	URR	101507706	Unknown function
SNP_109570_A_4005	NW_004518088.1	scaffold3380	4005	CC	TT	TT	URR	101507706	Unknown function
SNP_109571_A_4123	NW_004518088.1	scaffold3380	4123	GG	AA	AA	URR	101507706	Unknown function
SNP_109572_A_4226	NW_004518088.1	scaffold3380	4226	GG	TT	TT	URR	101507706	Unknown function
SNP_109573_A_4334	NW_004518088.1	scaffold3380	4334	AA	GG	GG	URR	101507706	Unknown function
SNP_109574_A_4375	NW_004518088.1	scaffold3380	4375	CC	TT	TT	URR	101507706	Unknown function
SNP_109575_A_649	NW_004518089.1	scaffold3381	649	CC	AA	AA	INTERGENIC		
SNP_109576_A_1022	NW_004518089.1	scaffold3381	1022	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109577_A_1025	NW_004518089.1	scaffold3381	1025	TT	AA	AA	INTERGENIC			
SNP_109578_A_1093	NW_004518089.1	scaffold3381	1093	TT	CC	CC	INTERGENIC			
SNP_109579_A_1121	NW_004518089.1	scaffold3381	1121	TT	GG	GG	INTERGENIC			
SNP_109580_A_1181	NW_004518089.1	scaffold3381	1181	TT	CC	CC	INTERGENIC			
SNP_109581_A_1353	NW_004518089.1	scaffold3381	1353	TT	AA	AA	INTERGENIC			
SNP_109582_A_1544	NW_004518089.1	scaffold3381	1544	CC	GG	GG	INTERGENIC			
SNP_109583_A_1576	NW_004518089.1	scaffold3381	1576	TT	AA	AA	INTERGENIC			
SNP_109584_A_1662	NW_004518089.1	scaffold3381	1662	CC	AA	AA	INTERGENIC			
SNP_109585_A_1663	NW_004518089.1	scaffold3381	1663	GG	AA	AA	INTERGENIC			
SNP_109586_A_1667	NW_004518089.1	scaffold3381	1667	AA	TT	TT	INTERGENIC			
SNP_109587_A_1669	NW_004518089.1	scaffold3381	1669	GG	TT	TT	INTERGENIC			
SNP_109588_A_1684	NW_004518089.1	scaffold3381	1684	CC	TT	TT	INTERGENIC			
SNP_109589_A_1685	NW_004518089.1	scaffold3381	1685	CC	TT	TT	INTERGENIC			
SNP_109590_A_224	NW_004518095.1	scaffold3389	224	GG	TT	TT	INTERGENIC			
SNP_109591_A_714	NW_004518098.1	scaffold3392	714	AA	TT	TT	INTERGENIC			
SNP_109592_A_830	NW_004518098.1	scaffold3392	830	AA	GG	GG	INTERGENIC			
SNP_109593_A_1013	NW_004518098.1	scaffold3392	1013	CC	AA	AA	INTERGENIC			
SNP_109594_A_1635	NW_004518102.1	scaffold3396	1635	GG	AA	AA	INTERGENIC			
SNP_109595_A_2628	NW_004518102.1	scaffold3396	2628	AA	TT	TT	INTERGENIC			
SNP_109596_A_15144	NW_004518102.1	scaffold3396	15144	TT	CC	CC	INTERGENIC			
SNP_109597_A_15181	NW_004518102.1	scaffold3396	15181	GG	TT	TT	INTERGENIC			
SNP_109599_A_15203	NW_004518102.1	scaffold3396	15203	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109600_A_15561	NW_004518102.1	scaffold3396	15561	GG	TT	TT	INTERGENIC		
SNP_109601_A_17973	NW_004518102.1	scaffold3396	17973	AA	TT	TT	INTERGENIC		
SNP_109602_A_21906	NW_004518102.1	scaffold3396	21906	CC	TT	TT	INTERGENIC		
SNP_109603_A_21934	NW_004518102.1	scaffold3396	21934	CC	TT	TT	INTERGENIC		
SNP_109604_A_21963	NW_004518102.1	scaffold3396	21963	CC	TT	TT	INTERGENIC		
SNP_109605_A_22007	NW_004518102.1	scaffold3396	22007	CC	TT	TT	INTERGENIC		
SNP_109606_A_4549	NW_004518103.1	scaffold3397	4549	GG	AA	AA	INTERGENIC		
SNP_109608_A_7956	NW_004518103.1	scaffold3397	7956	TT	CC	CC	INTERGENIC		
SNP_109610_A_18163	NW_004518103.1	scaffold3397	18163	TT	CC	CC	INTERGENIC		
SNP_109611_A_28299	NW_004518103.1	scaffold3397	28299	GG	AA	AA	INTERGENIC		
SNP_109612_A_28303	NW_004518103.1	scaffold3397	28303	GG	TT	TT	INTERGENIC		
SNP_109613_A_50699	NW_004518103.1	scaffold3397	50699	TT	CC	CC	INTERGENIC		
SNP_109614_A_50899	NW_004518103.1	scaffold3397	50899	AA	TT	TT	INTERGENIC		
SNP_109615_A_55196	NW_004518103.1	scaffold3397	55196	GG	AA	AA	INTERGENIC		
SNP_109616_A_56546	NW_004518103.1	scaffold3397	56546	TT	CC	CC	INTERGENIC		
SNP_109617_A_62768	NW_004518103.1	scaffold3397	62768	GG	AA	AA	NON_SYNONYMOUS_CODING	101508661	uncharacterized LOC101508661
SNP_109618_A_88839	NW_004518103.1	scaffold3397	88839	AA	TT	TT	URR	101509188	pentatricopeptide repeat-containing protein At1g18485
SNP_109619_A_97807	NW_004518103.1	scaffold3397	97807	CC	AA	AA	NON_SYNONYMOUS_CODING	101509514	uncharacterized LOC101509514
SNP_109620_A_107768	NW_004518103.1	scaffold3397	107768	TT	GG	GG	URR	101509835	uridine 5'-monophosphate synthase-like
SNP_109621_A_108057	NW_004518103.1	scaffold3397	108057	AA	GG	GG	URR	101509835	uridine 5'-monophosphate synthase-like
SNP_109622_A_108564	NW_004518103.1	scaffold3397	108564	AA	GG	GG	INTERGENIC		
SNP_109623_A_951	NW_004518105.1	scaffold3403	951	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109625_A_1297	NW_004518106.1	scaffold3404	1297	GG	AA	AA	INTERGENIC			
SNP_109626_A_1705	NW_004518106.1	scaffold3404	1705	TT	CC	CC	INTERGENIC			
SNP_109627_A_1933	NW_004518106.1	scaffold3404	1933	TT	GG	GG	INTERGENIC			
SNP_109628_A_2035	NW_004518106.1	scaffold3404	2035	CC	AA	AA	INTERGENIC			
SNP_109629_A_2136	NW_004518106.1	scaffold3404	2136	CC	GG	GG	INTERGENIC			
SNP_109630_A_2300	NW_004518106.1	scaffold3404	2300	TT	AA	AA	INTERGENIC			
SNP_109631_A_1359	NW_004518108.1	scaffold3406	1359	AA	TT	TT	INTERGENIC			
SNP_109633_A_1852	NW_004518108.1	scaffold3406	1852	TT	AA	AA	INTERGENIC			
SNP_109635_A_463	NW_004518109.1	scaffold3407	463	GG	AA	AA	INTERGENIC			
SNP_109636_A_278	NW_004518111.1	scaffold3410	278	GG	CC	CC	INTERGENIC			
SNP_109637_A_538	NW_004518111.1	scaffold3410	538	CC	TT	TT	INTERGENIC			
SNP_109638_A_6148	NW_004518112.1	scaffold3411	6148	TT	CC	CC	INTERGENIC			
SNP_109639_A_6218	NW_004518112.1	scaffold3411	6218	TT	AA	AA	INTERGENIC			
SNP_109641_A_6241	NW_004518112.1	scaffold3411	6241	AA	CC	CC	INTERGENIC			
SNP_109642_A_6255	NW_004518112.1	scaffold3411	6255	AA	TT	TT	INTERGENIC			
SNP_109643_A_6274	NW_004518112.1	scaffold3411	6274	AA	TT	TT	INTERGENIC			
SNP_109644_A_689	NW_004518113.1	scaffold3412	689	AA	TT	TT	INTERGENIC			
SNP_109645_A_707	NW_004518113.1	scaffold3412	707	TT	CC	CC	INTERGENIC			
SNP_109646_A_973	NW_004518113.1	scaffold3412	973	CC	AA	AA	INTERGENIC			
SNP_109647_A_23506	NW_004518119.1	scaffold3422	23506	TT	CC	CC	INTERGENIC			
SNP_109648_A_23515	NW_004518119.1	scaffold3422	23515	CC	TT	TT	INTERGENIC			
SNP_109650_A_82	NW_004518120.1	scaffold3423	82	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109651_A_196	NW_004518120.1	scaffold3423	196	GG	TT	TT	INTERGENIC			
SNP_109652_A_316	NW_004518120.1	scaffold3423	316	CC	AA	AA	INTERGENIC			
SNP_109653_A_343	NW_004518120.1	scaffold3423	343	CC	TT	TT	INTERGENIC			
SNP_109654_A_356	NW_004518120.1	scaffold3423	356	CC	TT	TT	INTERGENIC			
SNP_109655_A_378	NW_004518120.1	scaffold3423	378	AA	CC	CC	INTERGENIC			
SNP_109656_A_399	NW_004518120.1	scaffold3423	399	TT	CC	CC	INTERGENIC			
SNP_109657_A_475	NW_004518120.1	scaffold3423	475	CC	TT	TT	INTERGENIC			
SNP_109658_A_479	NW_004518120.1	scaffold3423	479	GG	CC	CC	INTERGENIC			
SNP_109659_A_482	NW_004518120.1	scaffold3423	482	AA	TT	TT	INTERGENIC			
SNP_109660_A_503	NW_004518120.1	scaffold3423	503	CC	GG	GG	INTERGENIC			
SNP_109661_A_530	NW_004518120.1	scaffold3423	530	AA	GG	GG	INTERGENIC			
SNP_109662_A_561	NW_004518120.1	scaffold3423	561	TT	CC	CC	INTERGENIC			
SNP_109663_A_563	NW_004518120.1	scaffold3423	563	TT	AA	AA	INTERGENIC			
SNP_109664_A_571	NW_004518120.1	scaffold3423	571	TT	AA	AA	INTERGENIC			
SNP_109665_A_682	NW_004518120.1	scaffold3423	682	TT	CC	CC	INTERGENIC			
SNP_109666_A_1022	NW_004518120.1	scaffold3423	1022	AA	TT	TT	INTERGENIC			
SNP_109667_A_1040	NW_004518120.1	scaffold3423	1040	AA	GG	GG	INTERGENIC			
SNP_109668_A_1041	NW_004518120.1	scaffold3423	1041	AA	TT	TT	INTERGENIC			
SNP_109669_A_1164	NW_004518120.1	scaffold3423	1164	TT	AA	AA	INTERGENIC			
SNP_109670_A_760	NW_004518121.1	scaffold3424	760	TT	GG	GG	INTERGENIC			
SNP_109671_A_323	NW_004518122.1	scaffold3426	323	AA	GG	GG	INTERGENIC			
SNP_109672_A_405	NW_004518122.1	scaffold3426	405	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109673_A_412	NW_004518122.1	scaffold3426	412	AA	GG	GG	INTERGENIC			
SNP_109674_A_422	NW_004518122.1	scaffold3426	422	AA	TT	TT	INTERGENIC			
SNP_109675_A_424	NW_004518122.1	scaffold3426	424	AA	TT	TT	INTERGENIC			
SNP_109676_A_11065	NW_004518125.1	scaffold3429	11065	AA	GG	GG	INTERGENIC			
SNP_109677_A_11224	NW_004518125.1	scaffold3429	11224	AA	GG	GG	INTERGENIC			
SNP_109678_A_359	NW_004518127.1	scaffold3432	359	GG	TT	TT	INTERGENIC			
SNP_109679_A_469	NW_004518127.1	scaffold3432	469	GG	AA	AA	INTERGENIC			
SNP_109680_A_14149	NW_004518127.1	scaffold3432	14149	AA	CC	CC	INTERGENIC			
SNP_109681_A_23889	NW_004518127.1	scaffold3432	23889	CC	AA	AA	INTERGENIC			
SNP_109683_A_24352	NW_004518127.1	scaffold3432	24352	AA	TT	TT	INTERGENIC			
SNP_109684_A_24365	NW_004518127.1	scaffold3432	24365	CC	TT	TT	INTERGENIC			
SNP_109685_A_24709	NW_004518127.1	scaffold3432	24709	AA	TT	TT	INTERGENIC			
SNP_109686_A_25064	NW_004518127.1	scaffold3432	25064	TT	CC	CC	INTERGENIC			
SNP_109687_A_25071	NW_004518127.1	scaffold3432	25071	TT	CC	CC	INTERGENIC			
SNP_109688_A_25076	NW_004518127.1	scaffold3432	25076	GG	TT	TT	INTERGENIC			
SNP_109689_A_26441	NW_004518127.1	scaffold3432	26441	AA	GG	GG	INTERGENIC			
SNP_109690_A_35508	NW_004518127.1	scaffold3432	35508	TT	CC	CC	INTRON	101514264	Unknown function	
SNP_109691_A_35515	NW_004518127.1	scaffold3432	35515	TT	CC	CC	INTRON	101514264	Unknown function	
SNP_109692_A_35684	NW_004518127.1	scaffold3432	35684	AA	TT	TT	INTRON	101514264	Unknown function	
SNP_109693_A_35708	NW_004518127.1	scaffold3432	35708	CC	TT	TT	INTRON	101514264	Unknown function	
SNP_109694_A_35714	NW_004518127.1	scaffold3432	35714	CC	TT	TT	INTRON	101514264	Unknown function	
SNP_109695_A_35716	NW_004518127.1	scaffold3432	35716	TT	AA	AA	INTRON	101514264	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109696_A_67982	NW_004518127.1	scaffold3432	67982	TT	CC	CC	INTERGENIC		
SNP_109697_A_68054	NW_004518127.1	scaffold3432	68054	CC	TT	TT	INTERGENIC		
SNP_109698_A_68252	NW_004518127.1	scaffold3432	68252	CC	TT	TT	INTERGENIC		
SNP_109699_A_68405	NW_004518127.1	scaffold3432	68405	AA	CC	CC	INTERGENIC		
SNP_109700_A_79273	NW_004518127.1	scaffold3432	79273	GG	TT	TT	INTERGENIC		
SNP_109701_A_79541	NW_004518127.1	scaffold3432	79541	AA	TT	TT	INTERGENIC		
SNP_109702_A_79584	NW_004518127.1	scaffold3432	79584	TT	CC	CC	INTERGENIC		
SNP_109703_A_79585	NW_004518127.1	scaffold3432	79585	TT	GG	GG	INTERGENIC		
SNP_109704_A_79604	NW_004518127.1	scaffold3432	79604	CC	TT	TT	INTERGENIC		
SNP_109705_A_79869	NW_004518127.1	scaffold3432	79869	GG	TT	TT	INTERGENIC		
SNP_109706_A_96449	NW_004518127.1	scaffold3432	96449	AA	GG	GG	INTRON	101514579	Unknown function
SNP_109707_A_96505	NW_004518127.1	scaffold3432	96505	GG	CC	CC	INTRON	101514579	Unknown function
SNP_109709_A_7685	NW_004518129.1	scaffold3434	7685	TT	AA	AA	INTERGENIC		
SNP_109710_A_7686	NW_004518129.1	scaffold3434	7686	AA	TT	TT	INTERGENIC		
SNP_109711_A_11005	NW_004518129.1	scaffold3434	11005	AA	GG	GG	INTERGENIC		
SNP_109712_A_11107	NW_004518129.1	scaffold3434	11107	AA	TT	TT	INTERGENIC		
SNP_109714_A_11770	NW_004518129.1	scaffold3434	11770	TT	CC	CC	INTERGENIC		
SNP_109715_A_11868	NW_004518129.1	scaffold3434	11868	GG	TT	TT	INTERGENIC		
SNP_109716_A_11920	NW_004518129.1	scaffold3434	11920	CC	TT	TT	INTERGENIC		
SNP_109717_A_5733	NW_004518130.1	scaffold3435	5733	AA	TT	TT	INTERGENIC		
SNP_109718_A_10605	NW_004518130.1	scaffold3435	10605	AA	GG	GG	INTERGENIC		
SNP_109719_A_10710	NW_004518130.1	scaffold3435	10710	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109720_A_10722	NW_004518130.1	scaffold3435	10722	TT	CC	CC	INTERGENIC			
SNP_109721_A_10736	NW_004518130.1	scaffold3435	10736	TT	CC	CC	INTERGENIC			
SNP_109722_A_16157	NW_004518130.1	scaffold3435	16157	GG	TT	TT	INTERGENIC			
SNP_109723_A_16168	NW_004518130.1	scaffold3435	16168	CC	AA	AA	INTERGENIC			
SNP_109724_A_16190	NW_004518130.1	scaffold3435	16190	TT	CC	CC	INTERGENIC			
SNP_109725_A_16385	NW_004518130.1	scaffold3435	16385	GG	AA	AA	INTERGENIC			
SNP_109726_A_33320	NW_004518130.1	scaffold3435	33320	CC	TT	TT	INTERGENIC			
SNP_109727_A_33335	NW_004518130.1	scaffold3435	33335	CC	TT	TT	INTERGENIC			
SNP_109728_A_1645	NW_004518131.1	scaffold3436	1645	CC	TT	TT	INTERGENIC			
SNP_109729_A_8881	NW_004518131.1	scaffold3436	8881	TT	AA	AA	INTERGENIC			
SNP_109731_A_9569	NW_004518131.1	scaffold3436	9569	TT	GG	GG	INTERGENIC			
SNP_109732_A_9668	NW_004518131.1	scaffold3436	9668	AA	TT	TT	INTERGENIC			
SNP_109735_A_13048	NW_004518131.1	scaffold3436	13048	GG	AA	AA	INTERGENIC			
SNP_109736_A_13094	NW_004518131.1	scaffold3436	13094	CC	TT	TT	INTERGENIC			
SNP_109737_A_13098	NW_004518131.1	scaffold3436	13098	GG	AA	AA	INTERGENIC			
SNP_109738_A_13182	NW_004518131.1	scaffold3436	13182	GG	AA	AA	INTERGENIC			
SNP_109739_A_13195	NW_004518131.1	scaffold3436	13195	GG	TT	TT	INTERGENIC			
SNP_109740_A_13208	NW_004518131.1	scaffold3436	13208	AA	GG	GG	INTERGENIC			
SNP_109741_A_13213	NW_004518131.1	scaffold3436	13213	GG	AA	AA	INTERGENIC			
SNP_109742_A_13263	NW_004518131.1	scaffold3436	13263	CC	AA	AA	INTERGENIC			
SNP_109743_A_13296	NW_004518131.1	scaffold3436	13296	AA	GG	GG	INTERGENIC			
SNP_109744_A_13355	NW_004518131.1	scaffold3436	13355	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109745_A_13376	NW_004518131.1	scaffold3436	13376	TT	AA	AA	INTERGENIC			
SNP_109746_A_13523	NW_004518131.1	scaffold3436	13523	GG	CC	CC	INTERGENIC			
SNP_109747_A_13563	NW_004518131.1	scaffold3436	13563	TT	AA	AA	INTERGENIC			
SNP_109748_A_13773	NW_004518131.1	scaffold3436	13773	CC	TT	TT	INTERGENIC			
SNP_109749_A_1629	NW_004518132.1	scaffold3437	1629	AA	TT	TT	INTERGENIC			
SNP_109750_A_1670	NW_004518132.1	scaffold3437	1670	AA	TT	TT	INTERGENIC			
SNP_109751_A_2947	NW_004518133.1	scaffold3438	2947	AA	TT	TT	INTERGENIC			
SNP_109752_A_2961	NW_004518133.1	scaffold3438	2961	AA	TT	TT	INTERGENIC			
SNP_109753_A_9363	NW_004518133.1	scaffold3438	9363	CC	TT	TT	INTERGENIC			
SNP_109754_A_11661	NW_004518133.1	scaffold3438	11661	TT	AA	AA	INTERGENIC			
SNP_109755_A_11943	NW_004518133.1	scaffold3438	11943	CC	AA	AA	INTERGENIC			
SNP_109756_A_12038	NW_004518133.1	scaffold3438	12038	TT	AA	AA	INTERGENIC			
SNP_109757_A_12193	NW_004518133.1	scaffold3438	12193	CC	TT	TT	INTERGENIC			
SNP_109758_A_12384	NW_004518133.1	scaffold3438	12384	TT	AA	AA	INTERGENIC			
SNP_109759_A_12392	NW_004518133.1	scaffold3438	12392	TT	AA	AA	INTERGENIC			
SNP_109760_A_12393	NW_004518133.1	scaffold3438	12393	GG	TT	TT	INTERGENIC			
SNP_109761_A_12419	NW_004518133.1	scaffold3438	12419	GG	TT	TT	INTERGENIC			
SNP_109762_A_12441	NW_004518133.1	scaffold3438	12441	CC	TT	TT	INTERGENIC			
SNP_109763_A_12596	NW_004518133.1	scaffold3438	12596	TT	AA	AA	INTERGENIC			
SNP_109764_A_12609	NW_004518133.1	scaffold3438	12609	TT	AA	AA	INTERGENIC			
SNP_109765_A_12611	NW_004518133.1	scaffold3438	12611	CC	AA	AA	INTERGENIC			
SNP_109766_A_12636	NW_004518133.1	scaffold3438	12636	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_109767_A_12645	NW_004518133.1	scaffold3438	12645	TT	CC	CC	INTERGENIC		
SNP_109769_A_12870	NW_004518133.1	scaffold3438	12870	CC	TT	TT	INTERGENIC		
SNP_109770_A_12877	NW_004518133.1	scaffold3438	12877	AA	GG	GG	INTERGENIC		
SNP_109771_A_12916	NW_004518133.1	scaffold3438	12916	GG	AA	AA	INTERGENIC		
SNP_109772_A_12947	NW_004518133.1	scaffold3438	12947	TT	AA	AA	INTERGENIC		
SNP_109773_A_12960	NW_004518133.1	scaffold3438	12960	CC	TT	TT	INTERGENIC		
SNP_109774_A_22761	NW_004518133.1	scaffold3438	22761	CC	TT	TT	DRR	101515552	Unknown function
SNP_109775_A_22790	NW_004518133.1	scaffold3438	22790	GG	TT	TT	DRR	101515552	Unknown function
SNP_109776_A_22966	NW_004518133.1	scaffold3438	22966	GG	AA	AA	SYNONYMOUS_CODING	101515552	Unknown function
SNP_109777_A_23067	NW_004518133.1	scaffold3438	23067	AA	GG	GG	SYNONYMOUS_CODING	101515552	Unknown function
SNP_109778_A_17152	NW_004518141.1	scaffold3447	17152	GG	AA	AA	INTERGENIC		
SNP_109779_A_22379	NW_004518141.1	scaffold3447	22379	CC	TT	TT	URR	101488307	expansin-B15-like
SNP_109780_A_22414	NW_004518141.1	scaffold3447	22414	CC	TT	TT	URR	101488307	expansin-B15-like
SNP_109781_A_34589	NW_004518141.1	scaffold3447	34589	AA	TT	TT	INTERGENIC		
SNP_109782_A_5096	NW_004518142.1	scaffold3448	5096	CC	TT	TT	INTERGENIC		
SNP_109783_A_5227	NW_004518142.1	scaffold3448	5227	AA	CC	CC	INTERGENIC		
SNP_109784_A_5308	NW_004518142.1	scaffold3448	5308	AA	GG	GG	INTERGENIC		
SNP_109785_A_5485	NW_004518142.1	scaffold3448	5485	GG	AA	AA	INTERGENIC		
SNP_109786_A_5489	NW_004518142.1	scaffold3448	5489	CC	TT	TT	INTERGENIC		
SNP_109787_A_5618	NW_004518142.1	scaffold3448	5618	TT	CC	CC	INTERGENIC		
SNP_109788_A_5796	NW_004518142.1	scaffold3448	5796	CC	TT	TT	INTERGENIC		
SNP_109789_A_5836	NW_004518142.1	scaffold3448	5836	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109790_A_2515	NW_004518143.1	scaffold3450	2515	TT	AA	AA	INTERGENIC			
SNP_109791_A_3205	NW_004518143.1	scaffold3450	3205	AA	GG	GG	INTERGENIC			
SNP_109792_A_3206	NW_004518143.1	scaffold3450	3206	TT	AA	AA	INTERGENIC			
SNP_109793_A_3211	NW_004518143.1	scaffold3450	3211	GG	TT	TT	INTERGENIC			
SNP_109794_A_13478	NW_004518143.1	scaffold3450	13478	TT	CC	CC	INTERGENIC			
SNP_109796_A_1178	NW_004518145.1	scaffold3453	1178	TT	GG	GG	INTERGENIC			
SNP_109797_A_1922	NW_004518145.1	scaffold3453	1922	TT	CC	CC	INTERGENIC			
SNP_109798_A_2035	NW_004518145.1	scaffold3453	2035	TT	CC	CC	INTERGENIC			
SNP_109799_A_2157	NW_004518145.1	scaffold3453	2157	AA	TT	TT	INTERGENIC			
SNP_109800_A_2158	NW_004518145.1	scaffold3453	2158	TT	GG	GG	INTERGENIC			
SNP_109801_A_299	NW_004518147.1	scaffold3455	299	TT	CC	CC	INTERGENIC			
SNP_109802_A_413	NW_004518147.1	scaffold3455	413	CC	AA	AA	INTERGENIC			
SNP_109803_A_447	NW_004518147.1	scaffold3455	447	AA	CC	CC	INTERGENIC			
SNP_109804_A_675	NW_004518147.1	scaffold3455	675	AA	GG	GG	INTERGENIC			
SNP_109805_A_676	NW_004518147.1	scaffold3455	676	AA	TT	TT	INTERGENIC			
SNP_109806_A_709	NW_004518147.1	scaffold3455	709	TT	CC	CC	INTERGENIC			
SNP_109807_A_761	NW_004518147.1	scaffold3455	761	AA	GG	GG	INTERGENIC			
SNP_109808_A_769	NW_004518147.1	scaffold3455	769	AA	TT	TT	INTERGENIC			
SNP_109809_A_902	NW_004518147.1	scaffold3455	902	GG	AA	AA	INTERGENIC			
SNP_109810_A_903	NW_004518147.1	scaffold3455	903	AA	GG	GG	INTERGENIC			
SNP_109811_A_1165	NW_004518147.1	scaffold3455	1165	AA	GG	GG	INTERGENIC			
SNP_109812_A_718	NW_004518148.1	scaffold3457	718	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109814_A_2113	NW_004518148.1	scaffold3457	2113	AA	TT	TT	INTERGENIC			
SNP_109815_A_4804	NW_004518148.1	scaffold3457	4804	AA	GG	GG	INTERGENIC			
SNP_109816_A_4854	NW_004518148.1	scaffold3457	4854	CC	TT	TT	INTERGENIC			
SNP_109817_A_4855	NW_004518148.1	scaffold3457	4855	GG	TT	TT	INTERGENIC			
SNP_109818_A_4898	NW_004518148.1	scaffold3457	4898	CC	TT	TT	INTERGENIC			
SNP_109819_A_4920	NW_004518148.1	scaffold3457	4920	TT	CC	CC	INTERGENIC			
SNP_109820_A_7361	NW_004518149.1	scaffold3458	7361	TT	CC	CC	INTERGENIC			
SNP_109821_A_9964	NW_004518149.1	scaffold3458	9964	CC	TT	TT	INTERGENIC			
SNP_109822_A_10016	NW_004518149.1	scaffold3458	10016	AA	TT	TT	INTERGENIC			
SNP_109823_A_10045	NW_004518149.1	scaffold3458	10045	AA	GG	GG	INTERGENIC			
SNP_109824_A_12048	NW_004518149.1	scaffold3458	12048	AA	CC	CC	INTERGENIC			
SNP_109825_A_8993	NW_004518154.1	scaffold3463	8993	TT	GG	GG	INTERGENIC			
SNP_109826_A_9043	NW_004518154.1	scaffold3463	9043	TT	AA	AA	INTERGENIC			
SNP_109827_A_9079	NW_004518154.1	scaffold3463	9079	TT	CC	CC	INTERGENIC			
SNP_109828_A_9181	NW_004518154.1	scaffold3463	9181	GG	TT	TT	INTERGENIC			
SNP_109829_A_9227	NW_004518154.1	scaffold3463	9227	GG	AA	AA	INTERGENIC			
SNP_109830_A_9460	NW_004518154.1	scaffold3463	9460	TT	GG	GG	INTERGENIC			
SNP_109831_A_10724	NW_004518154.1	scaffold3463	10724	TT	CC	CC	INTERGENIC			
SNP_109832_A_10731	NW_004518154.1	scaffold3463	10731	AA	GG	GG	INTERGENIC			
SNP_109833_A_12265	NW_004518154.1	scaffold3463	12265	CC	TT	TT	INTERGENIC			
SNP_109834_A_12501	NW_004518154.1	scaffold3463	12501	AA	GG	GG	INTERGENIC			
SNP_109835_A_12574	NW_004518154.1	scaffold3463	12574	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109836_A_12848	NW_004518154.1	scaffold3463	12848	AA	GG	GG	INTERGENIC			
SNP_109837_A_15862	NW_004518154.1	scaffold3463	15862	CC	AA	AA	INTERGENIC			
SNP_109838_A_15876	NW_004518154.1	scaffold3463	15876	AA	TT	TT	INTERGENIC			
SNP_109839_A_15907	NW_004518154.1	scaffold3463	15907	AA	TT	TT	INTERGENIC			
SNP_109840_A_15948	NW_004518154.1	scaffold3463	15948	TT	CC	CC	INTERGENIC			
SNP_109841_A_8549	NW_004518155.1	scaffold3464	8549	GG	AA	AA	URR	101488630	F-box protein CPR30-like	
SNP_109842_A_11243	NW_004518155.1	scaffold3464	11243	TT	CC	CC	INTERGENIC			
SNP_109843_A_13369	NW_004518155.1	scaffold3464	13369	AA	GG	GG	INTERGENIC			
SNP_109844_A_13499	NW_004518155.1	scaffold3464	13499	TT	CC	CC	INTERGENIC			
SNP_109845_A_13525	NW_004518155.1	scaffold3464	13525	GG	AA	AA	INTERGENIC			
SNP_109846_A_17027	NW_004518155.1	scaffold3464	17027	CC	TT	TT	INTERGENIC			
SNP_109847_A_17082	NW_004518155.1	scaffold3464	17082	CC	TT	TT	INTERGENIC			
SNP_109848_A_17139	NW_004518155.1	scaffold3464	17139	CC	AA	AA	INTERGENIC			
SNP_109849_A_17340	NW_004518155.1	scaffold3464	17340	CC	AA	AA	INTERGENIC			
SNP_109850_A_64	NW_004518159.1	scaffold3468	64	TT	GG	GG	INTERGENIC			
SNP_109851_A_67	NW_004518159.1	scaffold3468	67	TT	GG	GG	INTERGENIC			
SNP_109852_A_108	NW_004518159.1	scaffold3468	108	CC	TT	TT	INTERGENIC			
SNP_109853_A_331	NW_004518159.1	scaffold3468	331	TT	AA	AA	INTERGENIC			
SNP_109854_A_379	NW_004518159.1	scaffold3468	379	AA	GG	GG	INTERGENIC			
SNP_109855_A_1580	NW_004518159.1	scaffold3468	1580	GG	AA	AA	INTERGENIC			
SNP_109856_A_1791	NW_004518159.1	scaffold3468	1791	GG	AA	AA	INTERGENIC			
SNP_109857_A_2133	NW_004518160.1	scaffold3470	2133	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109858_A_2161	NW_004518160.1	scaffold3470	2161	GG	AA	AA	INTERGENIC			
SNP_109859_A_27971	NW_004518160.1	scaffold3470	27971	GG	CC	CC	INTERGENIC			
SNP_109860_A_37734	NW_004518160.1	scaffold3470	37734	CC	AA	AA	INTERGENIC			
SNP_109861_A_37769	NW_004518160.1	scaffold3470	37769	AA	TT	TT	INTERGENIC			
SNP_109862_A_41910	NW_004518160.1	scaffold3470	41910	TT	GG	GG	INTERGENIC			
SNP_109863_A_43024	NW_004518160.1	scaffold3470	43024	GG	AA	AA	INTERGENIC			
SNP_109864_A_52847	NW_004518160.1	scaffold3470	52847	GG	AA	AA	INTERGENIC			
SNP_109865_A_52852	NW_004518160.1	scaffold3470	52852	AA	GG	GG	INTERGENIC			
SNP_109866_A_64803	NW_004518160.1	scaffold3470	64803	GG	AA	AA	INTERGENIC			
SNP_109867_A_75266	NW_004518160.1	scaffold3470	75266	TT	CC	CC	INTERGENIC			
SNP_109868_A_78744	NW_004518160.1	scaffold3470	78744	TT	AA	AA	INTERGENIC			
SNP_109869_A_78751	NW_004518160.1	scaffold3470	78751	TT	GG	GG	INTERGENIC			
SNP_109870_A_78754	NW_004518160.1	scaffold3470	78754	CC	TT	TT	INTERGENIC			
SNP_109871_A_78760	NW_004518160.1	scaffold3470	78760	AA	TT	TT	INTERGENIC			
SNP_109872_A_81465	NW_004518160.1	scaffold3470	81465	AA	TT	TT	INTERGENIC			
SNP_109873_A_81467	NW_004518160.1	scaffold3470	81467	CC	AA	AA	INTERGENIC			
SNP_109874_A_82184	NW_004518160.1	scaffold3470	82184	GG	CC	CC	INTERGENIC			
SNP_109875_A_82609	NW_004518160.1	scaffold3470	82609	TT	CC	CC	INTERGENIC			
SNP_109876_A_82631	NW_004518160.1	scaffold3470	82631	AA	GG	GG	INTERGENIC			
SNP_109877_A_82636	NW_004518160.1	scaffold3470	82636	AA	GG	GG	INTERGENIC			
SNP_109878_A_82641	NW_004518160.1	scaffold3470	82641	GG	AA	AA	INTERGENIC			
SNP_109879_A_82646	NW_004518160.1	scaffold3470	82646	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109880_A_82651	NW_004518160.1	scaffold3470	82651	TT	GG	GG	INTERGENIC			
SNP_109881_A_82653	NW_004518160.1	scaffold3470	82653	CC	AA	AA	INTERGENIC			
SNP_109882_A_4799	NW_004518162.1	scaffold3472	4799	CC	GG	GG	INTERGENIC			
SNP_109884_A_6967	NW_004518162.1	scaffold3472	6967	GG	TT	TT	INTERGENIC			
SNP_109885_A_7131	NW_004518162.1	scaffold3472	7131	TT	CC	CC	INTERGENIC			
SNP_109887_A_7278	NW_004518162.1	scaffold3472	7278	GG	AA	AA	INTERGENIC			
SNP_109888_A_7499	NW_004518162.1	scaffold3472	7499	TT	CC	CC	INTERGENIC			
SNP_109890_A_8837	NW_004518162.1	scaffold3472	8837	CC	TT	TT	INTERGENIC			
SNP_109891_A_8876	NW_004518162.1	scaffold3472	8876	TT	CC	CC	INTERGENIC			
SNP_109892_A_8894	NW_004518162.1	scaffold3472	8894	AA	GG	GG	INTERGENIC			
SNP_109893_A_8990	NW_004518162.1	scaffold3472	8990	GG	AA	AA	INTERGENIC			
SNP_109895_A_9135	NW_004518162.1	scaffold3472	9135	AA	GG	GG	INTERGENIC			
SNP_109896_A_9238	NW_004518162.1	scaffold3472	9238	AA	GG	GG	INTERGENIC			
SNP_109897_A_9305	NW_004518162.1	scaffold3472	9305	CC	TT	TT	INTERGENIC			
SNP_109899_A_9533	NW_004518162.1	scaffold3472	9533	GG	AA	AA	INTERGENIC			
SNP_109900_A_9573	NW_004518162.1	scaffold3472	9573	CC	TT	TT	INTERGENIC			
SNP_109901_A_9583	NW_004518162.1	scaffold3472	9583	AA	CC	CC	INTERGENIC			
SNP_109902_A_9627	NW_004518162.1	scaffold3472	9627	CC	GG	GG	INTERGENIC			
SNP_109903_A_9837	NW_004518162.1	scaffold3472	9837	CC	TT	TT	INTERGENIC			
SNP_109904_A_9902	NW_004518162.1	scaffold3472	9902	CC	TT	TT	INTERGENIC			
SNP_109905_A_9919	NW_004518162.1	scaffold3472	9919	CC	TT	TT	INTERGENIC			
SNP_109906_A_9959	NW_004518162.1	scaffold3472	9959	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109907_A_10072	NW_004518162.1	scaffold3472	10072	TT	CC	CC	INTERGENIC			
SNP_109908_A_48722	NW_004518162.1	scaffold3472	48722	GG	AA	AA	INTERGENIC			
SNP_109910_A_76846	NW_004518162.1	scaffold3472	76846	CC	TT	TT	INTERGENIC			
SNP_109911_A_76892	NW_004518162.1	scaffold3472	76892	AA	GG	GG	INTERGENIC			
SNP_109912_A_76893	NW_004518162.1	scaffold3472	76893	GG	AA	AA	INTERGENIC			
SNP_109913_A_526	NW_004518163.1	scaffold3473	526	TT	CC	CC	INTERGENIC			
SNP_109914_A_592	NW_004518163.1	scaffold3473	592	AA	TT	TT	INTERGENIC			
SNP_109915_A_636	NW_004518163.1	scaffold3473	636	AA	GG	GG	INTERGENIC			
SNP_109916_A_674	NW_004518163.1	scaffold3473	674	CC	TT	TT	INTERGENIC			
SNP_109917_A_734	NW_004518163.1	scaffold3473	734	TT	GG	GG	INTERGENIC			
SNP_109918_A_741	NW_004518163.1	scaffold3473	741	CC	TT	TT	INTERGENIC			
SNP_109919_A_764	NW_004518163.1	scaffold3473	764	TT	CC	CC	INTERGENIC			
SNP_109920_A_827	NW_004518164.1	scaffold3474	827	AA	GG	GG	INTERGENIC			
SNP_109921_A_923	NW_004518164.1	scaffold3474	923	TT	AA	AA	INTERGENIC			
SNP_109922_A_931	NW_004518164.1	scaffold3474	931	GG	TT	TT	INTERGENIC			
SNP_109923_A_993	NW_004518164.1	scaffold3474	993	GG	AA	AA	INTERGENIC			
SNP_109924_A_1009	NW_004518164.1	scaffold3474	1009	TT	CC	CC	INTERGENIC			
SNP_109925_A_1015	NW_004518164.1	scaffold3474	1015	AA	GG	GG	INTERGENIC			
SNP_109926_A_1048	NW_004518164.1	scaffold3474	1048	TT	AA	AA	INTERGENIC			
SNP_109927_A_1050	NW_004518164.1	scaffold3474	1050	CC	AA	AA	INTERGENIC			
SNP_109928_A_580	NW_004518165.1	scaffold3475	580	CC	TT	TT	INTERGENIC			
SNP_109929_A_1417	NW_004518165.1	scaffold3475	1417	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109930_A_1478	NW_004518165.1	scaffold3475	1478	CC	GG	GG	INTERGENIC			
SNP_109931_A_1507	NW_004518165.1	scaffold3475	1507	AA	GG	GG	INTERGENIC			
SNP_109932_A_5534	NW_004518165.1	scaffold3475	5534	TT	AA	AA	INTERGENIC			
SNP_109933_A_5535	NW_004518165.1	scaffold3475	5535	CC	AA	AA	INTERGENIC			
SNP_109934_A_5735	NW_004518165.1	scaffold3475	5735	GG	AA	AA	INTERGENIC			
SNP_109935_A_5809	NW_004518165.1	scaffold3475	5809	TT	CC	CC	INTERGENIC			
SNP_109936_A_5896	NW_004518165.1	scaffold3475	5896	CC	TT	TT	INTERGENIC			
SNP_109937_A_6046	NW_004518165.1	scaffold3475	6046	GG	AA	AA	INTERGENIC			
SNP_109938_A_6047	NW_004518165.1	scaffold3475	6047	TT	CC	CC	INTERGENIC			
SNP_109940_A_6191	NW_004518165.1	scaffold3475	6191	GG	AA	AA	INTERGENIC			
SNP_109942_A_6237	NW_004518165.1	scaffold3475	6237	CC	TT	TT	INTERGENIC			
SNP_109943_A_6256	NW_004518165.1	scaffold3475	6256	GG	CC	CC	INTERGENIC			
SNP_109944_A_6294	NW_004518165.1	scaffold3475	6294	GG	AA	AA	INTERGENIC			
SNP_109945_A_6299	NW_004518165.1	scaffold3475	6299	GG	AA	AA	INTERGENIC			
SNP_109946_A_6357	NW_004518165.1	scaffold3475	6357	CC	TT	TT	INTERGENIC			
SNP_109947_A_6516	NW_004518165.1	scaffold3475	6516	AA	GG	GG	INTERGENIC			
SNP_109948_A_7438	NW_004518165.1	scaffold3475	7438	TT	CC	CC	INTERGENIC			
SNP_109949_A_7623	NW_004518165.1	scaffold3475	7623	AA	TT	TT	INTERGENIC			
SNP_109950_A_7721	NW_004518165.1	scaffold3475	7721	GG	AA	AA	INTERGENIC			
SNP_109951_A_7878	NW_004518165.1	scaffold3475	7878	GG	AA	AA	INTERGENIC			
SNP_109952_A_7998	NW_004518165.1	scaffold3475	7998	GG	CC	CC	INTERGENIC			
SNP_109953_A_8101	NW_004518165.1	scaffold3475	8101	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109954_A_8124	NW_004518165.1	scaffold3475	8124	TT	CC	CC	INTERGENIC			
SNP_109955_A_8254	NW_004518165.1	scaffold3475	8254	CC	TT	TT	INTERGENIC			
SNP_109956_A_9898	NW_004518165.1	scaffold3475	9898	GG	AA	AA	INTERGENIC			
SNP_109957_A_9912	NW_004518165.1	scaffold3475	9912	AA	CC	CC	INTERGENIC			
SNP_109958_A_10158	NW_004518165.1	scaffold3475	10158	AA	GG	GG	INTERGENIC			
SNP_109959_A_10273	NW_004518165.1	scaffold3475	10273	CC	TT	TT	INTERGENIC			
SNP_109960_A_10326	NW_004518165.1	scaffold3475	10326	AA	CC	CC	INTERGENIC			
SNP_109961_A_10429	NW_004518165.1	scaffold3475	10429	TT	CC	CC	INTERGENIC			
SNP_109962_A_10498	NW_004518165.1	scaffold3475	10498	GG	AA	AA	INTERGENIC			
SNP_109963_A_10594	NW_004518165.1	scaffold3475	10594	AA	GG	GG	INTERGENIC			
SNP_109964_A_16319	NW_004518165.1	scaffold3475	16319	TT	GG	GG	INTERGENIC			
SNP_109965_A_22514	NW_004518165.1	scaffold3475	22514	GG	TT	TT	INTERGENIC			
SNP_109966_A_27184	NW_004518165.1	scaffold3475	27184	TT	AA	AA	INTERGENIC			
SNP_109967_A_27260	NW_004518165.1	scaffold3475	27260	TT	AA	AA	INTERGENIC			
SNP_109968_A_27318	NW_004518165.1	scaffold3475	27318	AA	GG	GG	INTERGENIC			
SNP_109969_A_27397	NW_004518165.1	scaffold3475	27397	TT	CC	CC	INTERGENIC			
SNP_109970_A_27400	NW_004518165.1	scaffold3475	27400	AA	GG	GG	INTERGENIC			
SNP_109971_A_27509	NW_004518165.1	scaffold3475	27509	CC	GG	GG	INTERGENIC			
SNP_109972_A_27708	NW_004518165.1	scaffold3475	27708	TT	AA	AA	INTERGENIC			
SNP_109973_A_27755	NW_004518165.1	scaffold3475	27755	CC	TT	TT	INTERGENIC			
SNP_109974_A_29290	NW_004518165.1	scaffold3475	29290	GG	TT	TT	INTERGENIC			
SNP_109975_A_29332	NW_004518165.1	scaffold3475	29332	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109976_A_29909	NW_004518165.1	scaffold3475	29909	AA	GG	GG	INTERGENIC			
SNP_109977_A_29946	NW_004518165.1	scaffold3475	29946	TT	GG	GG	INTERGENIC			
SNP_109978_A_30039	NW_004518165.1	scaffold3475	30039	GG	AA	AA	INTERGENIC			
SNP_109979_A_30047	NW_004518165.1	scaffold3475	30047	AA	GG	GG	INTERGENIC			
SNP_109980_A_30356	NW_004518165.1	scaffold3475	30356	GG	AA	AA	INTERGENIC			
SNP_109981_A_30396	NW_004518165.1	scaffold3475	30396	AA	CC	CC	INTERGENIC			
SNP_109982_A_30602	NW_004518165.1	scaffold3475	30602	GG	AA	AA	INTERGENIC			
SNP_109983_A_30751	NW_004518165.1	scaffold3475	30751	AA	CC	CC	INTERGENIC			
SNP_109984_A_30934	NW_004518165.1	scaffold3475	30934	CC	TT	TT	INTERGENIC			
SNP_109985_A_30970	NW_004518165.1	scaffold3475	30970	CC	TT	TT	INTERGENIC			
SNP_109986_A_30985	NW_004518165.1	scaffold3475	30985	GG	AA	AA	INTERGENIC			
SNP_109987_A_31159	NW_004518165.1	scaffold3475	31159	AA	GG	GG	INTERGENIC			
SNP_109988_A_31172	NW_004518165.1	scaffold3475	31172	AA	GG	GG	INTERGENIC			
SNP_109989_A_31251	NW_004518165.1	scaffold3475	31251	GG	AA	AA	INTERGENIC			
SNP_109991_A_31337	NW_004518165.1	scaffold3475	31337	CC	AA	AA	INTERGENIC			
SNP_109992_A_31658	NW_004518165.1	scaffold3475	31658	GG	AA	AA	INTERGENIC			
SNP_109993_A_34735	NW_004518165.1	scaffold3475	34735	CC	TT	TT	INTERGENIC			
SNP_109994_A_36895	NW_004518165.1	scaffold3475	36895	TT	AA	AA	INTERGENIC			
SNP_109995_A_36902	NW_004518165.1	scaffold3475	36902	CC	GG	GG	INTERGENIC			
SNP_109996_A_36935	NW_004518165.1	scaffold3475	36935	CC	GG	GG	INTERGENIC			
SNP_109997_A_37129	NW_004518165.1	scaffold3475	37129	TT	CC	CC	INTERGENIC			
SNP_109998_A_38584	NW_004518165.1	scaffold3475	38584	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_109999_A_38624	NW_004518165.1	scaffold3475	38624	TT	AA	AA	INTERGENIC			
SNP_110000_A_38888	NW_004518165.1	scaffold3475	38888	GG	TT	TT	INTERGENIC			
SNP_110001_A_38963	NW_004518165.1	scaffold3475	38963	TT	CC	CC	INTERGENIC			
SNP_110002_A_38973	NW_004518165.1	scaffold3475	38973	AA	GG	GG	INTERGENIC			
SNP_110003_A_39169	NW_004518165.1	scaffold3475	39169	GG	AA	AA	INTERGENIC			
SNP_110004_A_43008	NW_004518165.1	scaffold3475	43008	TT	CC	CC	INTERGENIC			
SNP_110005_A_43050	NW_004518165.1	scaffold3475	43050	TT	CC	CC	INTERGENIC			
SNP_110006_A_43194	NW_004518165.1	scaffold3475	43194	AA	GG	GG	INTERGENIC			
SNP_110007_A_43275	NW_004518165.1	scaffold3475	43275	AA	GG	GG	INTERGENIC			
SNP_110008_A_56242	NW_004518165.1	scaffold3475	56242	CC	TT	TT	INTERGENIC			
SNP_110009_A_56373	NW_004518165.1	scaffold3475	56373	GG	TT	TT	INTERGENIC			
SNP_110010_A_56774	NW_004518165.1	scaffold3475	56774	TT	GG	GG	INTERGENIC			
SNP_110011_A_60418	NW_004518165.1	scaffold3475	60418	CC	GG	GG	INTERGENIC			
SNP_110012_A_65958	NW_004518165.1	scaffold3475	65958	AA	GG	GG	INTERGENIC			
SNP_110013_A_73581	NW_004518165.1	scaffold3475	73581	TT	CC	CC	INTERGENIC			
SNP_110014_A_74276	NW_004518165.1	scaffold3475	74276	AA	TT	TT	INTERGENIC			
SNP_110015_A_71	NW_004518172.1	scaffold3485	71	AA	CC	CC	INTERGENIC			
SNP_110016_A_418	NW_004518172.1	scaffold3485	418	TT	AA	AA	INTERGENIC			
SNP_110017_A_467	NW_004518172.1	scaffold3485	467	AA	TT	TT	INTERGENIC			
SNP_110018_A_504	NW_004518172.1	scaffold3485	504	GG	AA	AA	INTERGENIC			
SNP_110019_A_1642	NW_004518172.1	scaffold3485	1642	CC	TT	TT	INTERGENIC			
SNP_110020_A_1717	NW_004518172.1	scaffold3485	1717	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110021_A_1779	NW_004518172.1	scaffold3485	1779	AA	GG	GG	INTERGENIC			
SNP_110022_A_1992	NW_004518172.1	scaffold3485	1992	GG	CC	CC	INTERGENIC			
SNP_110023_A_2153	NW_004518172.1	scaffold3485	2153	TT	CC	CC	INTERGENIC			
SNP_110024_A_4729	NW_004518172.1	scaffold3485	4729	CC	TT	TT	INTERGENIC			
SNP_110025_A_4768	NW_004518172.1	scaffold3485	4768	TT	AA	AA	INTERGENIC			
SNP_110026_A_5064	NW_004518172.1	scaffold3485	5064	TT	AA	AA	INTERGENIC			
SNP_110027_A_5080	NW_004518172.1	scaffold3485	5080	AA	CC	CC	INTERGENIC			
SNP_110028_A_5098	NW_004518172.1	scaffold3485	5098	TT	CC	CC	INTERGENIC			
SNP_110029_A_5105	NW_004518172.1	scaffold3485	5105	AA	TT	TT	INTERGENIC			
SNP_110030_A_5386	NW_004518172.1	scaffold3485	5386	AA	GG	GG	INTERGENIC			
SNP_110032_A_6311	NW_004518172.1	scaffold3485	6311	AA	TT	TT	INTERGENIC			
SNP_110033_A_6369	NW_004518172.1	scaffold3485	6369	AA	TT	TT	INTERGENIC			
SNP_110034_A_21204	NW_004518173.1	scaffold3486	21204	TT	CC	CC	INTERGENIC			
SNP_110035_A_23758	NW_004518173.1	scaffold3486	23758	CC	GG	GG	INTERGENIC			
SNP_110037_A_2296	NW_004518176.1	scaffold3489	2296	AA	TT	TT	INTERGENIC			
SNP_110038_A_2321	NW_004518176.1	scaffold3489	2321	AA	GG	GG	INTERGENIC			
SNP_110039_A_2364	NW_004518176.1	scaffold3489	2364	GG	AA	AA	INTERGENIC			
SNP_110040_A_2385	NW_004518176.1	scaffold3489	2385	AA	TT	TT	INTERGENIC			
SNP_110041_A_2444	NW_004518176.1	scaffold3489	2444	CC	TT	TT	INTERGENIC			
SNP_110042_A_2574	NW_004518176.1	scaffold3489	2574	TT	GG	GG	INTERGENIC			
SNP_110044_A_3557	NW_004518176.1	scaffold3489	3557	TT	CC	CC	INTERGENIC			
SNP_110045_A_3563	NW_004518176.1	scaffold3489	3563	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110046_A_4760	NW_004518176.1	scaffold3489	4760	AA	CC	CC	INTERGENIC			
SNP_110047_A_4954	NW_004518176.1	scaffold3489	4954	AA	TT	TT	INTERGENIC			
SNP_110048_A_314	NW_004518180.1	scaffold3494	314	TT	CC	CC	INTERGENIC			
SNP_110049_A_330	NW_004518180.1	scaffold3494	330	CC	TT	TT	INTERGENIC			
SNP_110050_A_503	NW_004518180.1	scaffold3494	503	GG	CC	CC	INTERGENIC			
SNP_110051_A_634	NW_004518180.1	scaffold3494	634	TT	GG	GG	INTERGENIC			
SNP_110052_A_649	NW_004518180.1	scaffold3494	649	GG	TT	TT	INTERGENIC			
SNP_110053_A_650	NW_004518180.1	scaffold3494	650	GG	TT	TT	INTERGENIC			
SNP_110054_A_664	NW_004518180.1	scaffold3494	664	TT	GG	GG	INTERGENIC			
SNP_110055_A_928	NW_004518181.1	scaffold3496	928	GG	CC	CC	INTERGENIC			
SNP_110056_A_1169	NW_004518182.1	scaffold3497	1169	AA	GG	GG	INTERGENIC			
SNP_110057_A_1178	NW_004518182.1	scaffold3497	1178	TT	CC	CC	INTERGENIC			
SNP_110058_A_9423	NW_004518182.1	scaffold3497	9423	GG	AA	AA	INTERGENIC			
SNP_110059_A_13450	NW_004518182.1	scaffold3497	13450	GG	AA	AA	INTERGENIC			
SNP_110060_A_13461	NW_004518182.1	scaffold3497	13461	TT	CC	CC	INTERGENIC			
SNP_110061_A_13545	NW_004518182.1	scaffold3497	13545	AA	GG	GG	INTERGENIC			
SNP_110062_A_13557	NW_004518182.1	scaffold3497	13557	AA	CC	CC	INTERGENIC			
SNP_110063_A_13558	NW_004518182.1	scaffold3497	13558	AA	CC	CC	INTERGENIC			
SNP_110064_A_13586	NW_004518182.1	scaffold3497	13586	CC	TT	TT	INTERGENIC			
SNP_110065_A_13604	NW_004518182.1	scaffold3497	13604	TT	AA	AA	INTERGENIC			
SNP_110066_A_13804	NW_004518182.1	scaffold3497	13804	GG	AA	AA	INTERGENIC			
SNP_110067_A_1924	NW_004518183.1	scaffold3498	1924	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110069_A_6182	NW_004518184.1	scaffold3500	6182	TT	CC	CC	DRR	101490280	probable terpene synthase 2
SNP_110070_A_6206	NW_004518184.1	scaffold3500	6206	GG	AA	AA	DRR	101490280	probable terpene synthase 2
SNP_110071_A_14273	NW_004518184.1	scaffold3500	14273	AA	GG	GG	INTRON	101490280	probable terpene synthase 2
SNP_110072_A_16431	NW_004518184.1	scaffold3500	16431	AA	GG	GG	URR	101490280	probable terpene synthase 2
SNP_110074_A_371	NW_004518186.1	scaffold3502	371	AA	CC	CC	INTERGENIC		
SNP_110075_A_367	NW_004518188.1	scaffold3504	367	GG	AA	AA	INTERGENIC		
SNP_110076_A_414	NW_004518188.1	scaffold3504	414	TT	AA	AA	INTERGENIC		
SNP_110077_A_436	NW_004518188.1	scaffold3504	436	CC	TT	TT	INTERGENIC		
SNP_110078_A_431	NW_004518193.1	scaffold3512	431	AA	GG	GG	INTERGENIC		
SNP_110079_A_1086	NW_004518193.1	scaffold3512	1086	GG	AA	AA	INTERGENIC		
SNP_110080_A_2448	NW_004518193.1	scaffold3512	2448	AA	GG	GG	INTERGENIC		
SNP_110081_A_348	NW_004518194.1	scaffold3513	348	AA	CC	CC	INTERGENIC		
SNP_110082_A_351	NW_004518194.1	scaffold3513	351	TT	AA	AA	INTERGENIC		
SNP_110083_A_19440	NW_004518194.1	scaffold3513	19440	CC	AA	AA	INTERGENIC		
SNP_110084_A_19585	NW_004518194.1	scaffold3513	19585	CC	GG	GG	INTERGENIC		
SNP_110085_A_19615	NW_004518194.1	scaffold3513	19615	GG	AA	AA	INTERGENIC		
SNP_110086_A_19738	NW_004518194.1	scaffold3513	19738	CC	AA	AA	INTERGENIC		
SNP_110087_A_19760	NW_004518194.1	scaffold3513	19760	AA	GG	GG	INTERGENIC		
SNP_110088_A_19830	NW_004518194.1	scaffold3513	19830	GG	TT	TT	INTERGENIC		
SNP_110089_A_19862	NW_004518194.1	scaffold3513	19862	AA	TT	TT	INTERGENIC		
SNP_110090_A_19874	NW_004518194.1	scaffold3513	19874	CC	GG	GG	INTERGENIC		
SNP_110091_A_20687	NW_004518194.1	scaffold3513	20687	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110092_A_20888	NW_004518194.1	scaffold3513	20888	TT	CC	CC	INTERGENIC			
SNP_110093_A_20915	NW_004518194.1	scaffold3513	20915	GG	AA	AA	INTERGENIC			
SNP_110094_A_20977	NW_004518194.1	scaffold3513	20977	AA	GG	GG	INTERGENIC			
SNP_110095_A_21056	NW_004518194.1	scaffold3513	21056	TT	GG	GG	INTERGENIC			
SNP_110096_A_21068	NW_004518194.1	scaffold3513	21068	CC	TT	TT	INTERGENIC			
SNP_110097_A_21124	NW_004518194.1	scaffold3513	21124	AA	GG	GG	INTERGENIC			
SNP_110098_A_21155	NW_004518194.1	scaffold3513	21155	GG	AA	AA	INTERGENIC			
SNP_110099_A_21171	NW_004518194.1	scaffold3513	21171	AA	TT	TT	INTERGENIC			
SNP_110100_A_21173	NW_004518194.1	scaffold3513	21173	CC	GG	GG	INTERGENIC			
SNP_110101_A_21206	NW_004518194.1	scaffold3513	21206	GG	CC	CC	INTERGENIC			
SNP_110102_A_21480	NW_004518194.1	scaffold3513	21480	CC	TT	TT	INTERGENIC			
SNP_110103_A_21540	NW_004518194.1	scaffold3513	21540	GG	CC	CC	INTERGENIC			
SNP_110104_A_21545	NW_004518194.1	scaffold3513	21545	AA	CC	CC	INTERGENIC			
SNP_110105_A_21650	NW_004518194.1	scaffold3513	21650	CC	AA	AA	INTERGENIC			
SNP_110106_A_21671	NW_004518194.1	scaffold3513	21671	GG	TT	TT	INTERGENIC			
SNP_110107_A_21727	NW_004518194.1	scaffold3513	21727	AA	TT	TT	INTERGENIC			
SNP_110108_A_21859	NW_004518194.1	scaffold3513	21859	CC	AA	AA	INTERGENIC			
SNP_110109_A_21957	NW_004518194.1	scaffold3513	21957	GG	TT	TT	INTERGENIC			
SNP_110110_A_21973	NW_004518194.1	scaffold3513	21973	AA	GG	GG	INTERGENIC			
SNP_110111_A_21975	NW_004518194.1	scaffold3513	21975	GG	TT	TT	INTERGENIC			
SNP_110112_A_22029	NW_004518194.1	scaffold3513	22029	TT	GG	GG	INTERGENIC			
SNP_110113_A_22054	NW_004518194.1	scaffold3513	22054	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110114_A_22058	NW_004518194.1	scaffold3513	22058	TT	CC	CC	INTERGENIC		
SNP_110115_A_22246	NW_004518194.1	scaffold3513	22246	AA	GG	GG	INTERGENIC		
SNP_110116_A_22272	NW_004518194.1	scaffold3513	22272	CC	TT	TT	INTERGENIC		
SNP_110117_A_22301	NW_004518194.1	scaffold3513	22301	TT	AA	AA	INTERGENIC		
SNP_110118_A_22345	NW_004518194.1	scaffold3513	22345	TT	CC	CC	INTERGENIC		
SNP_110119_A_22490	NW_004518194.1	scaffold3513	22490	TT	CC	CC	INTERGENIC		
SNP_110120_A_22663	NW_004518194.1	scaffold3513	22663	AA	CC	CC	INTERGENIC		
SNP_110121_A_22741	NW_004518194.1	scaffold3513	22741	TT	CC	CC	INTERGENIC		
SNP_110122_A_22761	NW_004518194.1	scaffold3513	22761	AA	GG	GG	INTERGENIC		
SNP_110123_A_22763	NW_004518194.1	scaffold3513	22763	AA	CC	CC	INTERGENIC		
SNP_110125_A_550	NW_004518195.1	scaffold3514	550	CC	TT	TT	INTERGENIC		
SNP_110126_A_774	NW_004518195.1	scaffold3514	774	GG	TT	TT	INTERGENIC		
SNP_110127_A_2159	NW_004518195.1	scaffold3514	2159	TT	AA	AA	INTERGENIC		
SNP_110128_A_8923	NW_004518195.1	scaffold3514	8923	TT	GG	GG	URR	101493093	GDSL esterase/lipase At1g73610-like
SNP_110129_A_17411	NW_004518195.1	scaffold3514	17411	CC	TT	TT	INTERGENIC		
SNP_110130_A_19063	NW_004518195.1	scaffold3514	19063	TT	CC	CC	INTERGENIC		
SNP_110132_A_19640	NW_004518195.1	scaffold3514	19640	AA	TT	TT	INTERGENIC		
SNP_110133_A_19793	NW_004518195.1	scaffold3514	19793	AA	CC	CC	INTERGENIC		
SNP_110134_A_24006	NW_004518195.1	scaffold3514	24006	CC	TT	TT	SYNONYMOUS_CODING	101492426	GDSL esterase/lipase At5g63170-like
SNP_110135_A_40258	NW_004518195.1	scaffold3514	40258	AA	TT	TT	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110136_A_40310	NW_004518195.1	scaffold3514	40310	CC	TT	TT	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110137_A_40387	NW_004518195.1	scaffold3514	40387	TT	GG	GG	DRR	101492758	GDSL esterase/lipase At1g23500-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110138_A_40405	NW_004518195.1	scaffold3514	40405	TT	AA	AA	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110139_A_40406	NW_004518195.1	scaffold3514	40406	TT	AA	AA	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110140_A_40469	NW_004518195.1	scaffold3514	40469	AA	GG	GG	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110141_A_40644	NW_004518195.1	scaffold3514	40644	AA	GG	GG	DRR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110143_A_41061	NW_004518195.1	scaffold3514	41061	CC	TT	TT	NON_SYNONYMOUS_CODING	101492758	GDSL esterase/lipase At1g23500-like
SNP_110144_A_41258	NW_004518195.1	scaffold3514	41258	AA	GG	GG	INTRON	101492758	GDSL esterase/lipase At1g23500-like
SNP_110145_A_41317	NW_004518195.1	scaffold3514	41317	GG	AA	AA	INTRON	101492758	GDSL esterase/lipase At1g23500-like
SNP_110146_A_41337	NW_004518195.1	scaffold3514	41337	TT	GG	GG	INTRON	101492758	GDSL esterase/lipase At1g23500-like
SNP_110148_A_47732	NW_004518195.1	scaffold3514	47732	GG	AA	AA	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110149_A_47894	NW_004518195.1	scaffold3514	47894	AA	GG	GG	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110150_A_47969	NW_004518195.1	scaffold3514	47969	CC	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110151_A_47992	NW_004518195.1	scaffold3514	47992	CC	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110152_A_48163	NW_004518195.1	scaffold3514	48163	AA	GG	GG	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110153_A_48342	NW_004518195.1	scaffold3514	48342	GG	AA	AA	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110154_A_48363	NW_004518195.1	scaffold3514	48363	CC	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110155_A_48429	NW_004518195.1	scaffold3514	48429	CC	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110156_A_48444	NW_004518195.1	scaffold3514	48444	AA	GG	GG	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110157_A_48454	NW_004518195.1	scaffold3514	48454	GG	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110158_A_48515	NW_004518195.1	scaffold3514	48515	GG	TT	TT	URR	101492758	GDSL esterase/lipase At1g23500-like
SNP_110159_A_48747	NW_004518195.1	scaffold3514	48747	CC	TT	TT	INTERGENIC		
SNP_110160_A_52543	NW_004518195.1	scaffold3514	52543	AA	GG	GG	INTERGENIC		
SNP_110161_A_52558	NW_004518195.1	scaffold3514	52558	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110162_A_52561	NW_004518195.1	scaffold3514	52561	GG	TT	TT	INTERGENIC		
SNP_110163_A_454	NW_004518197.1	scaffold3516	454	AA	GG	GG	DRR	101493422	uncharacterized LOC101493422
SNP_110164_A_582	NW_004518197.1	scaffold3516	582	AA	GG	GG	DRR	101493422	uncharacterized LOC101493422
SNP_110165_A_602	NW_004518198.1	scaffold3517	602	TT	CC	CC	INTERGENIC		
SNP_110166_A_595	NW_004518200.1	scaffold3520	595	CC	AA	AA	INTERGENIC		
SNP_110167_A_602	NW_004518200.1	scaffold3520	602	CC	GG	GG	INTERGENIC		
SNP_110168_A_837	NW_004518200.1	scaffold3520	837	AA	GG	GG	INTERGENIC		
SNP_110169_A_1550	NW_004518200.1	scaffold3520	1550	GG	TT	TT	INTERGENIC		
SNP_110170_A_1856	NW_004518200.1	scaffold3520	1856	AA	TT	TT	INTERGENIC		
SNP_110171_A_2466	NW_004518200.1	scaffold3520	2466	TT	CC	CC	INTERGENIC		
SNP_110172_A_3254	NW_004518200.1	scaffold3520	3254	AA	TT	TT	INTERGENIC		
SNP_110173_A_4333	NW_004518200.1	scaffold3520	4333	AA	GG	GG	INTERGENIC		
SNP_110174_A_4374	NW_004518200.1	scaffold3520	4374	AA	CC	CC	INTERGENIC		
SNP_110175_A_4379	NW_004518200.1	scaffold3520	4379	TT	AA	AA	INTERGENIC		
SNP_110176_A_4505	NW_004518200.1	scaffold3520	4505	GG	AA	AA	INTERGENIC		
SNP_110177_A_4821	NW_004518200.1	scaffold3520	4821	TT	AA	AA	INTERGENIC		
SNP_110178_A_4861	NW_004518200.1	scaffold3520	4861	AA	TT	TT	INTERGENIC		
SNP_110179_A_5411	NW_004518200.1	scaffold3520	5411	GG	TT	TT	INTERGENIC		
SNP_110180_A_5744	NW_004518200.1	scaffold3520	5744	AA	CC	CC	INTERGENIC		
SNP_110181_A_5898	NW_004518200.1	scaffold3520	5898	CC	TT	TT	INTERGENIC		
SNP_110182_A_6112	NW_004518200.1	scaffold3520	6112	GG	AA	AA	INTERGENIC		
SNP_110183_A_7558	NW_004518200.1	scaffold3520	7558	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110184_A_7596	NW_004518200.1	scaffold3520	7596	GG	AA	AA	INTERGENIC			
SNP_110185_A_10136	NW_004518200.1	scaffold3520	10136	GG	AA	AA	INTERGENIC			
SNP_110187_A_37658	NW_004518200.1	scaffold3520	37658	GG	CC	CC	INTERGENIC			
SNP_110188_A_51544	NW_004518200.1	scaffold3520	51544	TT	AA	AA	INTERGENIC			
SNP_110189_A_51566	NW_004518200.1	scaffold3520	51566	AA	GG	GG	INTERGENIC			
SNP_110190_A_51577	NW_004518200.1	scaffold3520	51577	GG	AA	AA	INTERGENIC			
SNP_110191_A_57645	NW_004518200.1	scaffold3520	57645	GG	AA	AA	INTERGENIC			
SNP_110192_A_804	NW_004518206.1	scaffold3527	804	GG	TT	TT	INTERGENIC			
SNP_110193_A_834	NW_004518206.1	scaffold3527	834	AA	TT	TT	INTERGENIC			
SNP_110194_A_1149	NW_004518206.1	scaffold3527	1149	TT	GG	GG	INTERGENIC			
SNP_110195_A_2856	NW_004518208.1	scaffold3529	2856	CC	GG	GG	INTERGENIC			
SNP_110198_A_3507	NW_004518208.1	scaffold3529	3507	AA	CC	CC	INTERGENIC			
SNP_110199_A_3512	NW_004518208.1	scaffold3529	3512	TT	GG	GG	INTERGENIC			
SNP_110200_A_12363	NW_004518208.1	scaffold3529	12363	CC	GG	GG	INTERGENIC			
SNP_110201_A_20742	NW_004518208.1	scaffold3529	20742	TT	GG	GG	INTERGENIC			
SNP_110202_A_20777	NW_004518208.1	scaffold3529	20777	TT	CC	CC	INTERGENIC			
SNP_110203_A_20779	NW_004518208.1	scaffold3529	20779	AA	GG	GG	INTERGENIC			
SNP_110204_A_20991	NW_004518208.1	scaffold3529	20991	GG	AA	AA	INTERGENIC			
SNP_110205_A_21005	NW_004518208.1	scaffold3529	21005	GG	AA	AA	INTERGENIC			
SNP_110206_A_21018	NW_004518208.1	scaffold3529	21018	GG	CC	CC	INTERGENIC			
SNP_110207_A_22835	NW_004518208.1	scaffold3529	22835	CC	TT	TT	INTERGENIC			
SNP_110208_A_23176	NW_004518208.1	scaffold3529	23176	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110209_A_23198	NW_004518208.1	scaffold3529	23198	GG	AA	AA	INTERGENIC		
SNP_110210_A_23328	NW_004518208.1	scaffold3529	23328	TT	AA	AA	INTERGENIC		
SNP_110211_A_23952	NW_004518208.1	scaffold3529	23952	AA	GG	GG	INTERGENIC		
SNP_110212_A_5431	NW_004518216.1	scaffold3539	5431	CC	TT	TT	INTERGENIC		
SNP_110215_A_720	NW_004518219.1	scaffold3542	720	AA	TT	TT	INTERGENIC		
SNP_110216_A_7137	NW_004518219.1	scaffold3542	7137	GG	AA	AA	INTERGENIC		
SNP_110217_A_21000	NW_004518219.1	scaffold3542	21000	TT	CC	CC	URR	101494275	Unknown function
SNP_110218_A_21086	NW_004518219.1	scaffold3542	21086	TT	CC	CC	URR	101494275	Unknown function
SNP_110219_A_21087	NW_004518219.1	scaffold3542	21087	TT	CC	CC	URR	101494275	Unknown function
SNP_110220_A_21093	NW_004518219.1	scaffold3542	21093	AA	GG	GG	URR	101494275	Unknown function
SNP_110221_A_21124	NW_004518219.1	scaffold3542	21124	AA	CC	CC	URR	101494275	Unknown function
SNP_110222_A_21353	NW_004518219.1	scaffold3542	21353	TT	CC	CC	DRR	101494585	Unknown function
SNP_110223_A_21365	NW_004518219.1	scaffold3542	21365	TT	CC	CC	DRR	101494585	Unknown function
SNP_110224_A_21420	NW_004518219.1	scaffold3542	21420	TT	CC	CC	DRR	101494585	Unknown function
SNP_110225_A_21439	NW_004518219.1	scaffold3542	21439	TT	CC	CC	DRR	101494585	Unknown function
SNP_110226_A_21453	NW_004518219.1	scaffold3542	21453	AA	GG	GG	DRR	101494585	Unknown function
SNP_110227_A_21458	NW_004518219.1	scaffold3542	21458	TT	CC	CC	DRR	101494585	Unknown function
SNP_110228_A_21526	NW_004518219.1	scaffold3542	21526	AA	TT	TT	DRR	101494585	Unknown function
SNP_110229_A_21609	NW_004518219.1	scaffold3542	21609	AA	TT	TT	DRR	101494585	Unknown function
SNP_110230_A_21634	NW_004518219.1	scaffold3542	21634	GG	AA	AA	DRR	101494585	Unknown function
SNP_110231_A_21699	NW_004518219.1	scaffold3542	21699	CC	AA	AA	DRR	101494585	Unknown function
SNP_110232_A_21716	NW_004518219.1	scaffold3542	21716	GG	AA	AA	DRR	101494585	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110233_A_21748	NW_004518219.1	scaffold3542	21748	AA	GG	GG	DRR	101494585	Unknown function
SNP_110234_A_21802	NW_004518219.1	scaffold3542	21802	GG	AA	AA	DRR	101494585	Unknown function
SNP_110235_A_21840	NW_004518219.1	scaffold3542	21840	GG	AA	AA	DRR	101494585	Unknown function
SNP_110236_A_21872	NW_004518219.1	scaffold3542	21872	TT	AA	AA	DRR	101494585	Unknown function
SNP_110237_A_22033	NW_004518219.1	scaffold3542	22033	CC	AA	AA	DRR	101494585	Unknown function
SNP_110238_A_22048	NW_004518219.1	scaffold3542	22048	GG	TT	TT	DRR	101494585	Unknown function
SNP_110239_A_22086	NW_004518219.1	scaffold3542	22086	TT	CC	CC	DRR	101494585	Unknown function
SNP_110241_A_22157	NW_004518219.1	scaffold3542	22157	GG	CC	CC	DRR	101494585	Unknown function
SNP_110242_A_24378	NW_004518219.1	scaffold3542	24378	TT	GG	GG	DRR	101496866	Unknown function
SNP_110243_A_24827	NW_004518219.1	scaffold3542	24827	TT	CC	CC	DRR	101496534	Unknown function
SNP_110245_A_24874	NW_004518219.1	scaffold3542	24874	AA	CC	CC	DRR	101496534	Unknown function
SNP_110246_A_24875	NW_004518219.1	scaffold3542	24875	AA	GG	GG	DRR	101496534	Unknown function
SNP_110247_A_24882	NW_004518219.1	scaffold3542	24882	TT	CC	CC	DRR	101496534	Unknown function
SNP_110248_A_24941	NW_004518219.1	scaffold3542	24941	TT	CC	CC	DRR	101496534	Unknown function
SNP_110249_A_24992	NW_004518219.1	scaffold3542	24992	GG	CC	CC	DRR	101496534	Unknown function
SNP_110250_A_33954	NW_004518219.1	scaffold3542	33954	TT	CC	CC	URR	101495226	ribosomal protein S18
SNP_110251_A_33956	NW_004518219.1	scaffold3542	33956	TT	CC	CC	URR	101495226	ribosomal protein S18
SNP_110252_A_34278	NW_004518219.1	scaffold3542	34278	CC	AA	AA	URR	101495226	ribosomal protein S18
SNP_110253_A_34334	NW_004518219.1	scaffold3542	34334	TT	GG	GG	URR	101495226	ribosomal protein S18
SNP_110254_A_34337	NW_004518219.1	scaffold3542	34337	AA	GG	GG	URR	101495226	ribosomal protein S18
SNP_110255_A_34366	NW_004518219.1	scaffold3542	34366	AA	GG	GG	URR	101495226	ribosomal protein S18
SNP_110256_A_34385	NW_004518219.1	scaffold3542	34385	AA	GG	GG	URR	101495545	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110257_A_34683	NW_004518219.1	scaffold3542	34683	AA	CC	CC	URR	101495545	Unknown function
SNP_110258_A_34687	NW_004518219.1	scaffold3542	34687	TT	GG	GG	URR	101495545	Unknown function
SNP_110259_A_64	NW_004518220.1	scaffold3543	64	AA	TT	TT	INTERGENIC		
SNP_110260_A_199	NW_004518222.1	scaffold3545	199	TT	AA	AA	INTERGENIC		
SNP_110261_A_346	NW_004518222.1	scaffold3545	346	TT	AA	AA	INTERGENIC		
SNP_110262_A_367	NW_004518222.1	scaffold3545	367	TT	CC	CC	INTERGENIC		
SNP_110263_A_374	NW_004518222.1	scaffold3545	374	TT	CC	CC	INTERGENIC		
SNP_110264_A_349	NW_004518225.1	scaffold3549	349	AA	CC	CC	INTERGENIC		
SNP_110265_A_469	NW_004518228.1	scaffold3555	469	AA	GG	GG	INTERGENIC		
SNP_110266_A_549	NW_004518228.1	scaffold3555	549	AA	GG	GG	INTERGENIC		
SNP_110267_A_633	NW_004518228.1	scaffold3555	633	AA	TT	TT	INTERGENIC		
SNP_110268_A_665	NW_004518228.1	scaffold3555	665	GG	AA	AA	INTERGENIC		
SNP_110269_A_979	NW_004518228.1	scaffold3555	979	GG	AA	AA	INTERGENIC		
SNP_110270_A_5525	NW_004518229.1	scaffold3557	5525	TT	AA	AA	INTERGENIC		
SNP_110272_A_966	NW_004518235.1	scaffold3565	966	TT	CC	CC	INTERGENIC		
SNP_110273_A_983	NW_004518235.1	scaffold3565	983	TT	CC	CC	INTERGENIC		
SNP_110274_A_994	NW_004518235.1	scaffold3565	994	AA	CC	CC	INTERGENIC		
SNP_110276_A_1029	NW_004518235.1	scaffold3565	1029	TT	CC	CC	INTERGENIC		
SNP_110277_A_1106	NW_004518235.1	scaffold3565	1106	AA	GG	GG	INTERGENIC		
SNP_110278_A_1113	NW_004518235.1	scaffold3565	1113	CC	AA	AA	INTERGENIC		
SNP_110279_A_1119	NW_004518235.1	scaffold3565	1119	GG	TT	TT	INTERGENIC		
SNP_110280_A_228	NW_004518240.1	scaffold3575	228	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110281_A_215	NW_004518244.1	scaffold3581	215	TT	CC	CC	INTERGENIC			
SNP_110282_A_306	NW_004518244.1	scaffold3581	306	AA	TT	TT	INTERGENIC			
SNP_110283_A_308	NW_004518244.1	scaffold3581	308	TT	GG	GG	INTERGENIC			
SNP_110284_A_1490	NW_004518244.1	scaffold3581	1490	AA	CC	CC	INTERGENIC			
SNP_110285_A_64	NW_004518247.1	scaffold3585	64	AA	TT	TT	INTERGENIC			
SNP_110286_A_67	NW_004518247.1	scaffold3585	67	TT	GG	GG	INTERGENIC			
SNP_110287_A_121	NW_004518247.1	scaffold3585	121	TT	CC	CC	INTERGENIC			
SNP_110288_A_136	NW_004518247.1	scaffold3585	136	TT	GG	GG	INTERGENIC			
SNP_110289_A_156	NW_004518247.1	scaffold3585	156	TT	AA	AA	INTERGENIC			
SNP_110290_A_1777	NW_004518249.1	scaffold3588	1777	AA	CC	CC	INTERGENIC			
SNP_110291_A_228	NW_004518250.1	scaffold3589	228	TT	GG	GG	INTERGENIC			
SNP_110292_A_505	NW_004518250.1	scaffold3589	505	AA	GG	GG	INTERGENIC			
SNP_110293_A_579	NW_004518250.1	scaffold3589	579	CC	TT	TT	INTERGENIC			
SNP_110295_A_937	NW_004518250.1	scaffold3589	937	AA	CC	CC	INTERGENIC			
SNP_110296_A_14607	NW_004518252.1	scaffold3593	14607	CC	TT	TT	INTERGENIC			
SNP_110298_A_679	NW_004518253.1	scaffold3594	679	GG	CC	CC	INTERGENIC			
SNP_110299_A_773	NW_004518253.1	scaffold3594	773	GG	CC	CC	INTERGENIC			
SNP_110300_A_776	NW_004518253.1	scaffold3594	776	TT	GG	GG	INTERGENIC			
SNP_110301_A_779	NW_004518253.1	scaffold3594	779	AA	GG	GG	INTERGENIC			
SNP_110302_A_809	NW_004518253.1	scaffold3594	809	GG	AA	AA	INTERGENIC			
SNP_110303_A_815	NW_004518253.1	scaffold3594	815	AA	GG	GG	INTERGENIC			
SNP_110304_A_868	NW_004518253.1	scaffold3594	868	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110305_A_870	NW_004518253.1	scaffold3594	870	AA	GG	GG	INTERGENIC			
SNP_110306_A_931	NW_004518253.1	scaffold3594	931	AA	CC	CC	INTERGENIC			
SNP_110308_A_1108	NW_004518253.1	scaffold3594	1108	GG	AA	AA	INTERGENIC			
SNP_110309_A_1251	NW_004518253.1	scaffold3594	1251	TT	AA	AA	INTERGENIC			
SNP_110310_A_1332	NW_004518253.1	scaffold3594	1332	CC	GG	GG	INTERGENIC			
SNP_110311_A_1376	NW_004518253.1	scaffold3594	1376	TT	AA	AA	INTERGENIC			
SNP_110312_A_1548	NW_004518253.1	scaffold3594	1548	TT	CC	CC	INTERGENIC			
SNP_110313_A_1798	NW_004518253.1	scaffold3594	1798	TT	CC	CC	INTERGENIC			
SNP_110314_A_1822	NW_004518253.1	scaffold3594	1822	TT	AA	AA	INTERGENIC			
SNP_110315_A_6775	NW_004518253.1	scaffold3594	6775	TT	GG	GG	INTERGENIC			
SNP_110316_A_7787	NW_004518253.1	scaffold3594	7787	CC	AA	AA	INTERGENIC			
SNP_110317_A_64	NW_004518254.1	scaffold3596	64	GG	CC	CC	INTERGENIC			
SNP_110318_A_137	NW_004518254.1	scaffold3596	137	AA	GG	GG	INTERGENIC			
SNP_110319_A_1430	NW_004518254.1	scaffold3596	1430	AA	GG	GG	INTERGENIC			
SNP_110320_A_1522	NW_004518254.1	scaffold3596	1522	TT	GG	GG	INTERGENIC			
SNP_110321_A_1559	NW_004518254.1	scaffold3596	1559	TT	CC	CC	INTERGENIC			
SNP_110322_A_1739	NW_004518254.1	scaffold3596	1739	AA	GG	GG	INTERGENIC			
SNP_110323_A_1882	NW_004518254.1	scaffold3596	1882	GG	AA	AA	INTERGENIC			
SNP_110324_A_1894	NW_004518254.1	scaffold3596	1894	CC	AA	AA	INTERGENIC			
SNP_110325_A_1895	NW_004518254.1	scaffold3596	1895	AA	TT	TT	INTERGENIC			
SNP_110326_A_2260	NW_004518254.1	scaffold3596	2260	TT	AA	AA	INTERGENIC			
SNP_110327_A_2267	NW_004518254.1	scaffold3596	2267	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110328_A_2399	NW_004518254.1	scaffold3596	2399	GG	AA	AA	INTERGENIC			
SNP_110329_A_2584	NW_004518254.1	scaffold3596	2584	AA	TT	TT	INTERGENIC			
SNP_110330_A_374	NW_004518258.1	scaffold3600	374	GG	AA	AA	INTERGENIC			
SNP_110331_A_430	NW_004518258.1	scaffold3600	430	TT	CC	CC	INTERGENIC			
SNP_110332_A_517	NW_004518258.1	scaffold3600	517	GG	AA	AA	INTERGENIC			
SNP_110333_A_631	NW_004518258.1	scaffold3600	631	CC	TT	TT	INTERGENIC			
SNP_110334_A_813	NW_004518258.1	scaffold3600	813	TT	CC	CC	INTERGENIC			
SNP_110335_A_821	NW_004518258.1	scaffold3600	821	AA	CC	CC	INTERGENIC			
SNP_110336_A_885	NW_004518258.1	scaffold3600	885	TT	GG	GG	INTERGENIC			
SNP_110337_A_930	NW_004518258.1	scaffold3600	930	TT	GG	GG	INTERGENIC			
SNP_110338_A_1191	NW_004518258.1	scaffold3600	1191	GG	AA	AA	INTERGENIC			
SNP_110339_A_1192	NW_004518258.1	scaffold3600	1192	AA	TT	TT	INTERGENIC			
SNP_110340_A_1203	NW_004518258.1	scaffold3600	1203	AA	CC	CC	INTERGENIC			
SNP_110341_A_3515	NW_004518258.1	scaffold3600	3515	GG	CC	CC	INTERGENIC			
SNP_110342_A_3647	NW_004518258.1	scaffold3600	3647	AA	GG	GG	INTERGENIC			
SNP_110343_A_3685	NW_004518258.1	scaffold3600	3685	GG	AA	AA	INTERGENIC			
SNP_110344_A_3747	NW_004518258.1	scaffold3600	3747	GG	AA	AA	INTERGENIC			
SNP_110345_A_3927	NW_004518258.1	scaffold3600	3927	AA	GG	GG	INTERGENIC			
SNP_110346_A_3964	NW_004518258.1	scaffold3600	3964	GG	CC	CC	INTERGENIC			
SNP_110347_A_4185	NW_004518258.1	scaffold3600	4185	TT	CC	CC	INTERGENIC			
SNP_110348_A_2012	NW_004518260.1	scaffold3602	2012	AA	GG	GG	INTERGENIC			
SNP_110349_A_2026	NW_004518260.1	scaffold3602	2026	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110350_A_211	NW_004518262.1	scaffold3604	211	AA	GG	GG	INTERGENIC			
SNP_110352_A_237	NW_004518264.1	scaffold3606	237	GG	AA	AA	INTERGENIC			
SNP_110353_A_185	NW_004518271.1	scaffold3615	185	AA	GG	GG	INTERGENIC			
SNP_110354_A_204	NW_004518271.1	scaffold3615	204	CC	TT	TT	INTERGENIC			
SNP_110355_A_242	NW_004518271.1	scaffold3615	242	AA	CC	CC	INTERGENIC			
SNP_110356_A_724	NW_004518271.1	scaffold3615	724	AA	TT	TT	INTERGENIC			
SNP_110357_A_218	NW_004518272.1	scaffold3616	218	AA	GG	GG	INTERGENIC			
SNP_110358_A_504	NW_004518272.1	scaffold3616	504	AA	GG	GG	INTERGENIC			
SNP_110359_A_570	NW_004518272.1	scaffold3616	570	AA	GG	GG	INTERGENIC			
SNP_110360_A_711	NW_004518272.1	scaffold3616	711	AA	TT	TT	INTERGENIC			
SNP_110361_A_756	NW_004518272.1	scaffold3616	756	CC	TT	TT	INTERGENIC			
SNP_110362_A_2141	NW_004518275.1	scaffold3619	2141	TT	CC	CC	INTERGENIC			
SNP_110363_A_2144	NW_004518275.1	scaffold3619	2144	AA	GG	GG	INTERGENIC			
SNP_110364_A_379	NW_004518282.1	scaffold3628	379	TT	CC	CC	INTERGENIC			
SNP_110365_A_931	NW_004518282.1	scaffold3628	931	TT	CC	CC	INTERGENIC			
SNP_110366_A_935	NW_004518282.1	scaffold3628	935	AA	TT	TT	INTERGENIC			
SNP_110367_A_956	NW_004518282.1	scaffold3628	956	CC	TT	TT	INTERGENIC			
SNP_110368_A_1066	NW_004518282.1	scaffold3628	1066	CC	GG	GG	INTERGENIC			
SNP_110369_A_1105	NW_004518282.1	scaffold3628	1105	AA	GG	GG	INTERGENIC			
SNP_110370_A_1199	NW_004518282.1	scaffold3628	1199	TT	CC	CC	INTERGENIC			
SNP_110371_A_1974	NW_004518282.1	scaffold3628	1974	TT	CC	CC	INTERGENIC			
SNP_110372_A_1975	NW_004518282.1	scaffold3628	1975	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110373_A_1981	NW_004518282.1	scaffold3628	1981	TT	CC	CC	INTERGENIC			
SNP_110374_A_2251	NW_004518282.1	scaffold3628	2251	CC	TT	TT	INTERGENIC			
SNP_110375_A_397	NW_004518283.1	scaffold3631	397	GG	TT	TT	INTERGENIC			
SNP_110376_A_9395	NW_004518283.1	scaffold3631	9395	AA	TT	TT	INTERGENIC			
SNP_110377_A_9448	NW_004518283.1	scaffold3631	9448	CC	GG	GG	INTERGENIC			
SNP_110378_A_9540	NW_004518283.1	scaffold3631	9540	AA	TT	TT	INTERGENIC			
SNP_110379_A_9611	NW_004518283.1	scaffold3631	9611	AA	CC	CC	INTERGENIC			
SNP_110380_A_9626	NW_004518283.1	scaffold3631	9626	TT	AA	AA	INTERGENIC			
SNP_110381_A_11589	NW_004518283.1	scaffold3631	11589	AA	GG	GG	INTERGENIC			
SNP_110382_A_12098	NW_004518283.1	scaffold3631	12098	CC	TT	TT	INTERGENIC			
SNP_110384_A_12198	NW_004518283.1	scaffold3631	12198	CC	GG	GG	INTERGENIC			
SNP_110385_A_13028	NW_004518283.1	scaffold3631	13028	AA	GG	GG	INTERGENIC			
SNP_110386_A_13283	NW_004518283.1	scaffold3631	13283	GG	AA	AA	INTERGENIC			
SNP_110387_A_11061	NW_004518286.1	scaffold3637	11061	TT	CC	CC	INTERGENIC			
SNP_110388_A_11075	NW_004518286.1	scaffold3637	11075	AA	TT	TT	INTERGENIC			
SNP_110389_A_11092	NW_004518286.1	scaffold3637	11092	TT	AA	AA	INTERGENIC			
SNP_110390_A_1004	NW_004518288.1	scaffold3640	1004	GG	CC	CC	INTERGENIC			
SNP_110391_A_1132	NW_004518288.1	scaffold3640	1132	CC	TT	TT	INTERGENIC			
SNP_110392_A_1140	NW_004518289.1	scaffold3643	1140	GG	AA	AA	INTERGENIC			
SNP_110393_A_1456	NW_004518289.1	scaffold3643	1456	GG	CC	CC	INTERGENIC			
SNP_110394_A_1473	NW_004518289.1	scaffold3643	1473	TT	CC	CC	INTERGENIC			
SNP_110395_A_22120	NW_004518289.1	scaffold3643	22120	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110396_A_22286	NW_004518289.1	scaffold3643	22286	AA	GG	GG	INTERGENIC			
SNP_110397_A_22322	NW_004518289.1	scaffold3643	22322	AA	TT	TT	INTERGENIC			
SNP_110398_A_22449	NW_004518289.1	scaffold3643	22449	GG	AA	AA	INTERGENIC			
SNP_110399_A_22476	NW_004518289.1	scaffold3643	22476	CC	TT	TT	INTERGENIC			
SNP_110401_A_22595	NW_004518289.1	scaffold3643	22595	GG	AA	AA	INTERGENIC			
SNP_110402_A_22602	NW_004518289.1	scaffold3643	22602	TT	AA	AA	INTERGENIC			
SNP_110404_A_22979	NW_004518289.1	scaffold3643	22979	GG	AA	AA	INTERGENIC			
SNP_110405_A_24126	NW_004518289.1	scaffold3643	24126	GG	TT	TT	INTERGENIC			
SNP_110406_A_24464	NW_004518289.1	scaffold3643	24464	AA	GG	GG	INTERGENIC			
SNP_110407_A_502	NW_004518290.1	scaffold3644	502	GG	TT	TT	INTERGENIC			
SNP_110408_A_764	NW_004518290.1	scaffold3644	764	GG	AA	AA	INTERGENIC			
SNP_110409_A_774	NW_004518290.1	scaffold3644	774	GG	AA	AA	INTERGENIC			
SNP_110410_A_776	NW_004518290.1	scaffold3644	776	CC	TT	TT	INTERGENIC			
SNP_110411_A_879	NW_004518290.1	scaffold3644	879	GG	AA	AA	INTERGENIC			
SNP_110412_A_933	NW_004518290.1	scaffold3644	933	TT	GG	GG	INTERGENIC			
SNP_110413_A_988	NW_004518290.1	scaffold3644	988	GG	CC	CC	INTERGENIC			
SNP_110414_A_1031	NW_004518290.1	scaffold3644	1031	TT	AA	AA	INTERGENIC			
SNP_110415_A_1065	NW_004518290.1	scaffold3644	1065	TT	AA	AA	INTERGENIC			
SNP_110416_A_1225	NW_004518290.1	scaffold3644	1225	CC	GG	GG	INTERGENIC			
SNP_110417_A_1226	NW_004518290.1	scaffold3644	1226	CC	TT	TT	INTERGENIC			
SNP_110418_A_1323	NW_004518290.1	scaffold3644	1323	TT	AA	AA	INTERGENIC			
SNP_110419_A_1978	NW_004518290.1	scaffold3644	1978	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110420_A_1983	NW_004518290.1	scaffold3644	1983	TT	CC	CC	INTERGENIC			
SNP_110421_A_1991	NW_004518290.1	scaffold3644	1991	TT	CC	CC	INTERGENIC			
SNP_110422_A_2004	NW_004518290.1	scaffold3644	2004	AA	CC	CC	INTERGENIC			
SNP_110423_A_2020	NW_004518290.1	scaffold3644	2020	AA	TT	TT	INTERGENIC			
SNP_110424_A_2027	NW_004518290.1	scaffold3644	2027	TT	GG	GG	INTERGENIC			
SNP_110425_A_2037	NW_004518290.1	scaffold3644	2037	AA	CC	CC	INTERGENIC			
SNP_110426_A_2062	NW_004518290.1	scaffold3644	2062	AA	CC	CC	INTERGENIC			
SNP_110427_A_2068	NW_004518290.1	scaffold3644	2068	CC	AA	AA	INTERGENIC			
SNP_110428_A_2069	NW_004518290.1	scaffold3644	2069	TT	CC	CC	INTERGENIC			
SNP_110429_A_2096	NW_004518290.1	scaffold3644	2096	TT	GG	GG	INTERGENIC			
SNP_110430_A_2149	NW_004518290.1	scaffold3644	2149	GG	TT	TT	INTERGENIC			
SNP_110431_A_472	NW_004518291.1	scaffold3645	472	AA	GG	GG	INTERGENIC			
SNP_110432_A_7607	NW_004518291.1	scaffold3645	7607	CC	TT	TT	INTERGENIC			
SNP_110433_A_19400	NW_004518291.1	scaffold3645	19400	CC	TT	TT	INTERGENIC			
SNP_110434_A_23638	NW_004518291.1	scaffold3645	23638	AA	GG	GG	INTERGENIC			
SNP_110435_A_5353	NW_004518292.1	scaffold3651	5353	CC	TT	TT	INTERGENIC			
SNP_110436_A_6123	NW_004518292.1	scaffold3651	6123	CC	TT	TT	INTERGENIC			
SNP_110437_A_6126	NW_004518292.1	scaffold3651	6126	CC	TT	TT	INTERGENIC			
SNP_110438_A_6136	NW_004518292.1	scaffold3651	6136	CC	TT	TT	INTERGENIC			
SNP_110439_A_6165	NW_004518292.1	scaffold3651	6165	CC	AA	AA	INTERGENIC			
SNP_110440_A_6228	NW_004518292.1	scaffold3651	6228	TT	CC	CC	INTERGENIC			
SNP_110441_A_6238	NW_004518292.1	scaffold3651	6238	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110442_A_6310	NW_004518292.1	scaffold3651	6310	CC	TT	TT	INTERGENIC			
SNP_110443_A_6663	NW_004518292.1	scaffold3651	6663	TT	CC	CC	INTERGENIC			
SNP_110444_A_6749	NW_004518292.1	scaffold3651	6749	TT	CC	CC	INTERGENIC			
SNP_110445_A_6750	NW_004518292.1	scaffold3651	6750	TT	CC	CC	INTERGENIC			
SNP_110447_A_1821	NW_004518299.1	scaffold3658	1821	TT	AA	AA	INTERGENIC			
SNP_110448_A_2465	NW_004518299.1	scaffold3658	2465	CC	TT	TT	INTERGENIC			
SNP_110449_A_2649	NW_004518299.1	scaffold3658	2649	CC	TT	TT	INTERGENIC			
SNP_110450_A_1381	NW_004518300.1	scaffold3659	1381	AA	TT	TT	INTERGENIC			
SNP_110451_A_1414	NW_004518300.1	scaffold3659	1414	CC	TT	TT	INTERGENIC			
SNP_110453_A_1768	NW_004518300.1	scaffold3659	1768	AA	GG	GG	INTERGENIC			
SNP_110455_A_6924	NW_004518300.1	scaffold3659	6924	GG	AA	AA	INTERGENIC			
SNP_110456_A_6938	NW_004518300.1	scaffold3659	6938	TT	GG	GG	INTERGENIC			
SNP_110457_A_6953	NW_004518300.1	scaffold3659	6953	CC	TT	TT	INTERGENIC			
SNP_110458_A_7146	NW_004518300.1	scaffold3659	7146	CC	TT	TT	INTERGENIC			
SNP_110459_A_7194	NW_004518300.1	scaffold3659	7194	AA	CC	CC	INTERGENIC			
SNP_110460_A_7350	NW_004518300.1	scaffold3659	7350	TT	GG	GG	INTERGENIC			
SNP_110461_A_7385	NW_004518300.1	scaffold3659	7385	GG	AA	AA	INTERGENIC			
SNP_110462_A_7453	NW_004518300.1	scaffold3659	7453	TT	AA	AA	INTERGENIC			
SNP_110463_A_7529	NW_004518300.1	scaffold3659	7529	GG	CC	CC	INTERGENIC			
SNP_110464_A_7644	NW_004518300.1	scaffold3659	7644	TT	AA	AA	INTERGENIC			
SNP_110465_A_7675	NW_004518300.1	scaffold3659	7675	GG	CC	CC	INTERGENIC			
SNP_110466_A_7693	NW_004518300.1	scaffold3659	7693	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110467_A_404	NW_004518301.1	scaffold3660	404	CC	GG	GG	INTERGENIC			
SNP_110468_A_481	NW_004518301.1	scaffold3660	481	AA	CC	CC	INTERGENIC			
SNP_110469_A_589	NW_004518301.1	scaffold3660	589	CC	GG	GG	INTERGENIC			
SNP_110470_A_631	NW_004518301.1	scaffold3660	631	TT	CC	CC	INTERGENIC			
SNP_110471_A_635	NW_004518301.1	scaffold3660	635	TT	AA	AA	INTERGENIC			
SNP_110472_A_723	NW_004518301.1	scaffold3660	723	GG	AA	AA	INTERGENIC			
SNP_110473_A_962	NW_004518301.1	scaffold3660	962	TT	CC	CC	INTERGENIC			
SNP_110474_A_967	NW_004518301.1	scaffold3660	967	TT	CC	CC	INTERGENIC			
SNP_110475_A_1017	NW_004518301.1	scaffold3660	1017	TT	CC	CC	INTERGENIC			
SNP_110476_A_1039	NW_004518301.1	scaffold3660	1039	CC	GG	GG	INTERGENIC			
SNP_110477_A_3946	NW_004518304.1	scaffold3663	3946	TT	AA	AA	INTERGENIC			
SNP_110479_A_4144	NW_004518304.1	scaffold3663	4144	TT	AA	AA	INTERGENIC			
SNP_110480_A_4197	NW_004518304.1	scaffold3663	4197	TT	CC	CC	INTERGENIC			
SNP_110481_A_4238	NW_004518304.1	scaffold3663	4238	TT	AA	AA	INTERGENIC			
SNP_110482_A_4345	NW_004518304.1	scaffold3663	4345	TT	GG	GG	INTERGENIC			
SNP_110483_A_4421	NW_004518304.1	scaffold3663	4421	AA	TT	TT	INTERGENIC			
SNP_110485_A_4509	NW_004518304.1	scaffold3663	4509	AA	TT	TT	INTERGENIC			
SNP_110486_A_7431	NW_004518304.1	scaffold3663	7431	AA	TT	TT	INTERGENIC			
SNP_110487_A_13885	NW_004518304.1	scaffold3663	13885	CC	AA	AA	INTERGENIC			
SNP_110488_A_13952	NW_004518304.1	scaffold3663	13952	TT	GG	GG	INTERGENIC			
SNP_110489_A_14335	NW_004518304.1	scaffold3663	14335	TT	CC	CC	INTERGENIC			
SNP_110490_A_14369	NW_004518304.1	scaffold3663	14369	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110491_A_3290	NW_004518305.1	scaffold3664	3290	CC	GG	GG	INTERGENIC			
SNP_110493_A_832	NW_004518307.1	scaffold3666	832	GG	AA	AA	INTERGENIC			
SNP_110494_A_2091	NW_004518307.1	scaffold3666	2091	GG	AA	AA	INTERGENIC			
SNP_110495_A_2238	NW_004518307.1	scaffold3666	2238	TT	AA	AA	INTERGENIC			
SNP_110496_A_2240	NW_004518307.1	scaffold3666	2240	AA	TT	TT	INTERGENIC			
SNP_110497_A_2599	NW_004518307.1	scaffold3666	2599	CC	TT	TT	INTERGENIC			
SNP_110499_A_3393	NW_004518307.1	scaffold3666	3393	GG	AA	AA	INTERGENIC			
SNP_110500_A_3395	NW_004518307.1	scaffold3666	3395	AA	GG	GG	INTERGENIC			
SNP_110502_A_4073	NW_004518307.1	scaffold3666	4073	AA	TT	TT	INTERGENIC			
SNP_110503_A_6281	NW_004518307.1	scaffold3666	6281	CC	TT	TT	INTERGENIC			
SNP_110504_A_1116	NW_004518308.1	scaffold3668	1116	CC	GG	GG	INTERGENIC			
SNP_110506_A_707	NW_004518311.1	scaffold3672	707	AA	GG	GG	INTERGENIC			
SNP_110507_A_1614	NW_004518312.1	scaffold3673	1614	TT	CC	CC	INTERGENIC			
SNP_110509_A_298	NW_004518315.1	scaffold3676	298	GG	CC	CC	INTERGENIC			
SNP_110510_A_558	NW_004518315.1	scaffold3676	558	GG	AA	AA	INTERGENIC			
SNP_110511_A_602	NW_004518315.1	scaffold3676	602	GG	AA	AA	INTERGENIC			
SNP_110512_A_3600	NW_004518315.1	scaffold3676	3600	GG	CC	CC	INTERGENIC			
SNP_110513_A_4111	NW_004518315.1	scaffold3676	4111	AA	CC	CC	INTERGENIC			
SNP_110514_A_4718	NW_004518315.1	scaffold3676	4718	AA	GG	GG	INTERGENIC			
SNP_110515_A_4915	NW_004518315.1	scaffold3676	4915	TT	AA	AA	INTERGENIC			
SNP_110516_A_5071	NW_004518315.1	scaffold3676	5071	CC	TT	TT	INTERGENIC			
SNP_110517_A_5183	NW_004518315.1	scaffold3676	5183	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110518_A_5217	NW_004518315.1	scaffold3676	5217	AA	TT	TT	INTERGENIC			
SNP_110519_A_5323	NW_004518315.1	scaffold3676	5323	AA	CC	CC	INTERGENIC			
SNP_110520_A_6820	NW_004518315.1	scaffold3676	6820	AA	TT	TT	INTERGENIC			
SNP_110521_A_7400	NW_004518315.1	scaffold3676	7400	CC	AA	AA	INTERGENIC			
SNP_110522_A_8263	NW_004518315.1	scaffold3676	8263	TT	CC	CC	INTERGENIC			
SNP_110523_A_9393	NW_004518315.1	scaffold3676	9393	AA	TT	TT	INTERGENIC			
SNP_110524_A_9688	NW_004518315.1	scaffold3676	9688	CC	AA	AA	INTERGENIC			
SNP_110525_A_9692	NW_004518315.1	scaffold3676	9692	TT	AA	AA	INTERGENIC			
SNP_110526_A_9780	NW_004518315.1	scaffold3676	9780	AA	GG	GG	INTERGENIC			
SNP_110527_A_12109	NW_004518315.1	scaffold3676	12109	CC	TT	TT	INTERGENIC			
SNP_110528_A_12640	NW_004518315.1	scaffold3676	12640	TT	AA	AA	INTERGENIC			
SNP_110529_A_12722	NW_004518315.1	scaffold3676	12722	GG	TT	TT	INTERGENIC			
SNP_110530_A_12787	NW_004518315.1	scaffold3676	12787	TT	GG	GG	INTERGENIC			
SNP_110531_A_13028	NW_004518315.1	scaffold3676	13028	TT	CC	CC	INTERGENIC			
SNP_110532_A_13043	NW_004518315.1	scaffold3676	13043	CC	AA	AA	INTERGENIC			
SNP_110533_A_13087	NW_004518315.1	scaffold3676	13087	AA	GG	GG	INTERGENIC			
SNP_110534_A_13171	NW_004518315.1	scaffold3676	13171	GG	CC	CC	INTERGENIC			
SNP_110535_A_13272	NW_004518315.1	scaffold3676	13272	AA	GG	GG	INTERGENIC			
SNP_110536_A_13286	NW_004518315.1	scaffold3676	13286	CC	TT	TT	INTERGENIC			
SNP_110537_A_277	NW_004518318.1	scaffold3681	277	CC	TT	TT	INTERGENIC			
SNP_110538_A_421	NW_004518318.1	scaffold3681	421	AA	TT	TT	INTERGENIC			
SNP_110539_A_520	NW_004518318.1	scaffold3681	520	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110540_A_627	NW_004518318.1	scaffold3681	627	TT	CC	CC	INTERGENIC			
SNP_110541_A_523	NW_004518322.1	scaffold3685	523	CC	GG	GG	INTERGENIC			
SNP_110542_A_570	NW_004518322.1	scaffold3685	570	TT	CC	CC	INTERGENIC			
SNP_110543_A_571	NW_004518322.1	scaffold3685	571	AA	CC	CC	INTERGENIC			
SNP_110544_A_839	NW_004518322.1	scaffold3685	839	TT	AA	AA	INTERGENIC			
SNP_110545_A_847	NW_004518322.1	scaffold3685	847	AA	GG	GG	INTERGENIC			
SNP_110546_A_856	NW_004518322.1	scaffold3685	856	CC	GG	GG	INTERGENIC			
SNP_110547_A_65449	NW_004518323.1	scaffold3687	65449	GG	TT	TT	INTERGENIC			
SNP_110548_A_132037	NW_004518323.1	scaffold3687	132037	GG	AA	AA	INTERGENIC			
SNP_110549_A_132043	NW_004518323.1	scaffold3687	132043	AA	GG	GG	INTERGENIC			
SNP_110550_A_132048	NW_004518323.1	scaffold3687	132048	CC	AA	AA	INTERGENIC			
SNP_110551_A_132100	NW_004518323.1	scaffold3687	132100	TT	CC	CC	INTERGENIC			
SNP_110552_A_132123	NW_004518323.1	scaffold3687	132123	GG	AA	AA	INTERGENIC			
SNP_110553_A_132136	NW_004518323.1	scaffold3687	132136	CC	TT	TT	INTERGENIC			
SNP_110554_A_132283	NW_004518323.1	scaffold3687	132283	TT	CC	CC	INTERGENIC			
SNP_110555_A_140626	NW_004518323.1	scaffold3687	140626	GG	TT	TT	INTERGENIC			
SNP_110556_A_140695	NW_004518323.1	scaffold3687	140695	TT	GG	GG	INTERGENIC			
SNP_110557_A_140724	NW_004518323.1	scaffold3687	140724	GG	AA	AA	INTERGENIC			
SNP_110558_A_140799	NW_004518323.1	scaffold3687	140799	GG	AA	AA	INTERGENIC			
SNP_110559_A_140806	NW_004518323.1	scaffold3687	140806	TT	CC	CC	INTERGENIC			
SNP_110560_A_140922	NW_004518323.1	scaffold3687	140922	CC	AA	AA	INTERGENIC			
SNP_110561_A_140994	NW_004518323.1	scaffold3687	140994	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110562_A_141032	NW_004518323.1	scaffold3687	141032	TT	CC	CC	INTERGENIC			
SNP_110563_A_443	NW_004518325.1	scaffold3689	443	TT	AA	AA	INTERGENIC			
SNP_110564_A_635	NW_004518325.1	scaffold3689	635	AA	GG	GG	INTERGENIC			
SNP_110565_A_15592	NW_004518325.1	scaffold3689	15592	GG	CC	CC	INTERGENIC			
SNP_110566_A_15659	NW_004518325.1	scaffold3689	15659	CC	AA	AA	INTERGENIC			
SNP_110567_A_15787	NW_004518325.1	scaffold3689	15787	CC	TT	TT	INTERGENIC			
SNP_110568_A_16055	NW_004518325.1	scaffold3689	16055	GG	AA	AA	INTERGENIC			
SNP_110569_A_16103	NW_004518325.1	scaffold3689	16103	TT	CC	CC	INTERGENIC			
SNP_110570_A_16157	NW_004518325.1	scaffold3689	16157	CC	GG	GG	INTERGENIC			
SNP_110572_A_1000	NW_004518329.1	scaffold3693	1000	CC	TT	TT	INTERGENIC			
SNP_110573_A_1037	NW_004518329.1	scaffold3693	1037	TT	CC	CC	INTERGENIC			
SNP_110574_A_1076	NW_004518329.1	scaffold3693	1076	AA	GG	GG	INTERGENIC			
SNP_110575_A_20673	NW_004518329.1	scaffold3693	20673	TT	CC	CC	INTERGENIC			
SNP_110576_A_27019	NW_004518329.1	scaffold3693	27019	GG	AA	AA	INTERGENIC			
SNP_110577_A_35159	NW_004518329.1	scaffold3693	35159	AA	GG	GG	INTERGENIC			
SNP_110578_A_35163	NW_004518329.1	scaffold3693	35163	AA	GG	GG	INTERGENIC			
SNP_110579_A_35185	NW_004518329.1	scaffold3693	35185	CC	TT	TT	INTERGENIC			
SNP_110580_A_35206	NW_004518329.1	scaffold3693	35206	TT	GG	GG	INTERGENIC			
SNP_110581_A_35215	NW_004518329.1	scaffold3693	35215	CC	TT	TT	INTERGENIC			
SNP_110582_A_35221	NW_004518329.1	scaffold3693	35221	TT	CC	CC	INTERGENIC			
SNP_110583_A_35253	NW_004518329.1	scaffold3693	35253	GG	TT	TT	INTERGENIC			
SNP_110584_A_35349	NW_004518329.1	scaffold3693	35349	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110586_A_35495	NW_004518329.1	scaffold3693	35495	GG	AA	AA	INTERGENIC			
SNP_110587_A_35650	NW_004518329.1	scaffold3693	35650	GG	AA	AA	INTERGENIC			
SNP_110588_A_41497	NW_004518329.1	scaffold3693	41497	AA	CC	CC	INTERGENIC			
SNP_110589_A_81068	NW_004518329.1	scaffold3693	81068	CC	TT	TT	INTERGENIC			
SNP_110590_A_426	NW_004518335.1	scaffold3700	426	CC	TT	TT	INTERGENIC			
SNP_110592_A_739	NW_004518335.1	scaffold3700	739	TT	AA	AA	INTERGENIC			
SNP_110593_A_1065	NW_004518335.1	scaffold3700	1065	TT	AA	AA	INTERGENIC			
SNP_110594_A_1111	NW_004518335.1	scaffold3700	1111	TT	AA	AA	INTERGENIC			
SNP_110595_A_1121	NW_004518335.1	scaffold3700	1121	CC	TT	TT	INTERGENIC			
SNP_110596_A_395	NW_004518339.1	scaffold3705	395	GG	TT	TT	INTERGENIC			
SNP_110597_A_558	NW_004518339.1	scaffold3705	558	GG	AA	AA	INTERGENIC			
SNP_110598_A_673	NW_004518339.1	scaffold3705	673	AA	GG	GG	INTERGENIC			
SNP_110599_A_675	NW_004518339.1	scaffold3705	675	GG	AA	AA	INTERGENIC			
SNP_110600_A_719	NW_004518339.1	scaffold3705	719	TT	CC	CC	INTERGENIC			
SNP_110601_A_739	NW_004518339.1	scaffold3705	739	CC	AA	AA	INTERGENIC			
SNP_110603_A_4125	NW_004518339.1	scaffold3705	4125	AA	TT	TT	STOP_GAINED	101501804	DNA ligase 1-like	
SNP_110604_A_238	NW_004518341.1	scaffold3707	238	TT	CC	CC	INTERGENIC			
SNP_110605_A_297	NW_004518341.1	scaffold3707	297	AA	GG	GG	INTERGENIC			
SNP_110606_A_307	NW_004518341.1	scaffold3707	307	GG	AA	AA	INTERGENIC			
SNP_110607_A_1087	NW_004518341.1	scaffold3707	1087	TT	AA	AA	INTERGENIC			
SNP_110608_A_1693	NW_004518341.1	scaffold3707	1693	CC	TT	TT	INTERGENIC			
SNP_110609_A_1715	NW_004518341.1	scaffold3707	1715	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110610_A_1733	NW_004518341.1	scaffold3707	1733	GG	TT	TT	INTERGENIC			
SNP_110611_A_1807	NW_004518341.1	scaffold3707	1807	AA	CC	CC	INTERGENIC			
SNP_110612_A_642	NW_004518344.1	scaffold3714	642	TT	CC	CC	INTERGENIC			
SNP_110613_A_669	NW_004518344.1	scaffold3714	669	AA	CC	CC	INTERGENIC			
SNP_110614_A_687	NW_004518344.1	scaffold3714	687	TT	GG	GG	INTERGENIC			
SNP_110615_A_696	NW_004518344.1	scaffold3714	696	AA	GG	GG	INTERGENIC			
SNP_110616_A_699	NW_004518344.1	scaffold3714	699	AA	CC	CC	INTERGENIC			
SNP_110617_A_879	NW_004518344.1	scaffold3714	879	TT	CC	CC	INTERGENIC			
SNP_110618_A_887	NW_004518344.1	scaffold3714	887	TT	AA	AA	INTERGENIC			
SNP_110619_A_896	NW_004518344.1	scaffold3714	896	CC	AA	AA	INTERGENIC			
SNP_110621_A_84411	NW_004518353.1	scaffold3724	84411	CC	AA	AA	INTERGENIC			
SNP_110622_A_90971	NW_004518353.1	scaffold3724	90971	TT	AA	AA	INTERGENIC			
SNP_110623_A_90972	NW_004518353.1	scaffold3724	90972	TT	GG	GG	INTERGENIC			
SNP_110624_A_465	NW_004518357.1	scaffold3728	465	GG	AA	AA	INTERGENIC			
SNP_110625_A_489	NW_004518357.1	scaffold3728	489	GG	AA	AA	INTERGENIC			
SNP_110626_A_499	NW_004518357.1	scaffold3728	499	GG	TT	TT	INTERGENIC			
SNP_110627_A_502	NW_004518359.1	scaffold3731	502	CC	TT	TT	INTERGENIC			
SNP_110628_A_792	NW_004518359.1	scaffold3731	792	TT	CC	CC	INTERGENIC			
SNP_110629_A_834	NW_004518359.1	scaffold3731	834	GG	TT	TT	INTERGENIC			
SNP_110630_A_846	NW_004518359.1	scaffold3731	846	TT	GG	GG	INTERGENIC			
SNP_110631_A_852	NW_004518359.1	scaffold3731	852	AA	TT	TT	INTERGENIC			
SNP_110632_A_879	NW_004518359.1	scaffold3731	879	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110634_A_894	NW_004518359.1	scaffold3731	894	TT	AA	AA	INTERGENIC			
SNP_110635_A_897	NW_004518359.1	scaffold3731	897	GG	TT	TT	INTERGENIC			
SNP_110636_A_915	NW_004518359.1	scaffold3731	915	TT	GG	GG	INTERGENIC			
SNP_110637_A_921	NW_004518359.1	scaffold3731	921	GG	AA	AA	INTERGENIC			
SNP_110638_A_930	NW_004518359.1	scaffold3731	930	GG	TT	TT	INTERGENIC			
SNP_110639_A_945	NW_004518359.1	scaffold3731	945	AA	TT	TT	INTERGENIC			
SNP_110640_A_951	NW_004518359.1	scaffold3731	951	GG	AA	AA	INTERGENIC			
SNP_110641_A_966	NW_004518359.1	scaffold3731	966	TT	GG	GG	INTERGENIC			
SNP_110642_A_976	NW_004518359.1	scaffold3731	976	GG	AA	AA	INTERGENIC			
SNP_110643_A_977	NW_004518359.1	scaffold3731	977	TT	CC	CC	INTERGENIC			
SNP_110645_A_984	NW_004518359.1	scaffold3731	984	AA	GG	GG	INTERGENIC			
SNP_110646_A_988	NW_004518359.1	scaffold3731	988	TT	AA	AA	INTERGENIC			
SNP_110647_A_102	NW_004518366.1	scaffold3742	102	GG	CC	CC	INTERGENIC			
SNP_110648_A_207	NW_004518366.1	scaffold3742	207	TT	AA	AA	INTERGENIC			
SNP_110649_A_374	NW_004518366.1	scaffold3742	374	TT	CC	CC	INTERGENIC			
SNP_110650_A_405	NW_004518366.1	scaffold3742	405	AA	TT	TT	INTERGENIC			
SNP_110651_A_439	NW_004518366.1	scaffold3742	439	AA	GG	GG	INTERGENIC			
SNP_110653_A_603	NW_004518366.1	scaffold3742	603	CC	TT	TT	INTERGENIC			
SNP_110654_A_643	NW_004518366.1	scaffold3742	643	CC	GG	GG	INTERGENIC			
SNP_110655_A_665	NW_004518366.1	scaffold3742	665	CC	TT	TT	INTERGENIC			
SNP_110656_A_688	NW_004518366.1	scaffold3742	688	TT	CC	CC	INTERGENIC			
SNP_110657_A_732	NW_004518366.1	scaffold3742	732	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110658_A_3733	NW_004518366.1	scaffold3742	3733	CC	AA	AA	INTERGENIC			
SNP_110660_A_4088	NW_004518366.1	scaffold3742	4088	GG	TT	TT	INTERGENIC			
SNP_110661_A_6425	NW_004518366.1	scaffold3742	6425	CC	TT	TT	INTERGENIC			
SNP_110662_A_6756	NW_004518366.1	scaffold3742	6756	CC	TT	TT	INTERGENIC			
SNP_110663_A_10167	NW_004518366.1	scaffold3742	10167	GG	AA	AA	INTERGENIC			
SNP_110664_A_10510	NW_004518366.1	scaffold3742	10510	AA	TT	TT	INTERGENIC			
SNP_110665_A_10575	NW_004518366.1	scaffold3742	10575	AA	GG	GG	INTERGENIC			
SNP_110666_A_10655	NW_004518366.1	scaffold3742	10655	GG	CC	CC	INTERGENIC			
SNP_110667_A_11065	NW_004518366.1	scaffold3742	11065	AA	CC	CC	INTERGENIC			
SNP_110668_A_11362	NW_004518366.1	scaffold3742	11362	TT	CC	CC	INTERGENIC			
SNP_110669_A_11373	NW_004518366.1	scaffold3742	11373	AA	GG	GG	INTERGENIC			
SNP_110670_A_11469	NW_004518366.1	scaffold3742	11469	TT	AA	AA	INTERGENIC			
SNP_110671_A_11563	NW_004518366.1	scaffold3742	11563	CC	TT	TT	INTERGENIC			
SNP_110672_A_11682	NW_004518366.1	scaffold3742	11682	TT	AA	AA	INTERGENIC			
SNP_110674_A_4666	NW_004518368.1	scaffold3744	4666	TT	GG	GG	INTERGENIC			
SNP_110675_A_10248	NW_004518368.1	scaffold3744	10248	AA	GG	GG	INTERGENIC			
SNP_110676_A_10304	NW_004518368.1	scaffold3744	10304	TT	GG	GG	INTERGENIC			
SNP_110677_A_3275	NW_004518369.1	scaffold3745	3275	CC	TT	TT	INTERGENIC			
SNP_110678_A_6305	NW_004518373.1	scaffold3750	6305	TT	CC	CC	INTERGENIC			
SNP_110679_A_64	NW_004518379.1	scaffold3757	64	TT	CC	CC	INTERGENIC			
SNP_110680_A_116	NW_004518379.1	scaffold3757	116	TT	AA	AA	INTERGENIC			
SNP_110681_A_222	NW_004518379.1	scaffold3757	222	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110682_A_234	NW_004518379.1	scaffold3757	234	AA	GG	GG	INTERGENIC			
SNP_110683_A_258	NW_004518379.1	scaffold3757	258	AA	CC	CC	INTERGENIC			
SNP_110684_A_537	NW_004518379.1	scaffold3757	537	CC	AA	AA	INTERGENIC			
SNP_110685_A_627	NW_004518379.1	scaffold3757	627	GG	TT	TT	INTERGENIC			
SNP_110686_A_3265	NW_004518379.1	scaffold3757	3265	CC	GG	GG	INTERGENIC			
SNP_110688_A_3427	NW_004518379.1	scaffold3757	3427	TT	GG	GG	INTERGENIC			
SNP_110689_A_3489	NW_004518379.1	scaffold3757	3489	GG	CC	CC	INTERGENIC			
SNP_110690_A_4006	NW_004518379.1	scaffold3757	4006	TT	GG	GG	INTERGENIC			
SNP_110691_A_4046	NW_004518379.1	scaffold3757	4046	GG	AA	AA	INTERGENIC			
SNP_110692_A_4076	NW_004518379.1	scaffold3757	4076	AA	GG	GG	INTERGENIC			
SNP_110693_A_4211	NW_004518379.1	scaffold3757	4211	AA	GG	GG	INTERGENIC			
SNP_110694_A_4278	NW_004518379.1	scaffold3757	4278	TT	AA	AA	INTERGENIC			
SNP_110695_A_4426	NW_004518379.1	scaffold3757	4426	AA	CC	CC	INTERGENIC			
SNP_110696_A_4454	NW_004518379.1	scaffold3757	4454	GG	AA	AA	INTERGENIC			
SNP_110697_A_4457	NW_004518379.1	scaffold3757	4457	AA	GG	GG	INTERGENIC			
SNP_110698_A_4473	NW_004518379.1	scaffold3757	4473	AA	GG	GG	INTERGENIC			
SNP_110699_A_4475	NW_004518379.1	scaffold3757	4475	CC	TT	TT	INTERGENIC			
SNP_110700_A_4500	NW_004518379.1	scaffold3757	4500	CC	TT	TT	INTERGENIC			
SNP_110701_A_4717	NW_004518379.1	scaffold3757	4717	TT	CC	CC	INTERGENIC			
SNP_110702_A_4722	NW_004518379.1	scaffold3757	4722	AA	GG	GG	INTERGENIC			
SNP_110703_A_4875	NW_004518379.1	scaffold3757	4875	CC	TT	TT	INTERGENIC			
SNP_110704_A_5073	NW_004518379.1	scaffold3757	5073	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110705_A_5188	NW_004518379.1	scaffold3757	5188	GG	AA	AA	INTERGENIC			
SNP_110706_A_5315	NW_004518379.1	scaffold3757	5315	AA	GG	GG	INTERGENIC			
SNP_110707_A_5389	NW_004518379.1	scaffold3757	5389	CC	AA	AA	INTERGENIC			
SNP_110708_A_6774	NW_004518379.1	scaffold3757	6774	CC	TT	TT	INTERGENIC			
SNP_110709_A_6944	NW_004518379.1	scaffold3757	6944	TT	CC	CC	INTERGENIC			
SNP_110710_A_7043	NW_004518379.1	scaffold3757	7043	TT	CC	CC	INTERGENIC			
SNP_110711_A_7663	NW_004518379.1	scaffold3757	7663	AA	CC	CC	INTERGENIC			
SNP_110712_A_7677	NW_004518379.1	scaffold3757	7677	TT	GG	GG	INTERGENIC			
SNP_110713_A_7897	NW_004518379.1	scaffold3757	7897	AA	GG	GG	INTERGENIC			
SNP_110714_A_7967	NW_004518379.1	scaffold3757	7967	AA	GG	GG	INTERGENIC			
SNP_110715_A_9601	NW_004518379.1	scaffold3757	9601	AA	TT	TT	INTERGENIC			
SNP_110716_A_618	NW_004518383.1	scaffold3765	618	CC	TT	TT	INTERGENIC			
SNP_110717_A_6621	NW_004518388.1	scaffold3771	6621	TT	AA	AA	INTERGENIC			
SNP_110718_A_11360	NW_004518388.1	scaffold3771	11360	CC	TT	TT	INTERGENIC			
SNP_110719_A_11640	NW_004518388.1	scaffold3771	11640	AA	GG	GG	INTERGENIC			
SNP_110720_A_12777	NW_004518388.1	scaffold3771	12777	GG	AA	AA	INTERGENIC			
SNP_110721_A_7463	NW_004518392.1	scaffold3780	7463	AA	TT	TT	INTERGENIC			
SNP_110722_A_7553	NW_004518392.1	scaffold3780	7553	GG	CC	CC	INTERGENIC			
SNP_110723_A_7586	NW_004518392.1	scaffold3780	7586	GG	CC	CC	INTERGENIC			
SNP_110724_A_7667	NW_004518392.1	scaffold3780	7667	CC	TT	TT	INTERGENIC			
SNP_110725_A_7902	NW_004518392.1	scaffold3780	7902	AA	GG	GG	INTERGENIC			
SNP_110726_A_8469	NW_004518392.1	scaffold3780	8469	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110727_A_9405	NW_004518392.1	scaffold3780	9405	CC	AA	AA	INTERGENIC			
SNP_110728_A_9717	NW_004518392.1	scaffold3780	9717	AA	TT	TT	INTERGENIC			
SNP_110729_A_9746	NW_004518392.1	scaffold3780	9746	AA	TT	TT	INTERGENIC			
SNP_110730_A_20694	NW_004518392.1	scaffold3780	20694	AA	GG	GG	INTERGENIC			
SNP_110731_A_21224	NW_004518392.1	scaffold3780	21224	TT	CC	CC	INTERGENIC			
SNP_110732_A_21225	NW_004518392.1	scaffold3780	21225	AA	CC	CC	INTERGENIC			
SNP_110733_A_21451	NW_004518392.1	scaffold3780	21451	AA	TT	TT	INTERGENIC			
SNP_110734_A_21490	NW_004518392.1	scaffold3780	21490	GG	AA	AA	INTERGENIC			
SNP_110735_A_2010	NW_004518394.1	scaffold3784	2010	AA	CC	CC	INTERGENIC			
SNP_110736_A_2031	NW_004518394.1	scaffold3784	2031	TT	CC	CC	INTERGENIC			
SNP_110737_A_2239	NW_004518394.1	scaffold3784	2239	GG	TT	TT	INTERGENIC			
SNP_110739_A_2894	NW_004518395.1	scaffold3789	2894	GG	AA	AA	INTERGENIC			
SNP_110740_A_3329	NW_004518395.1	scaffold3789	3329	CC	AA	AA	INTERGENIC			
SNP_110741_A_3940	NW_004518395.1	scaffold3789	3940	GG	TT	TT	INTERGENIC			
SNP_110742_A_5064	NW_004518395.1	scaffold3789	5064	GG	AA	AA	INTERGENIC			
SNP_110743_A_5599	NW_004518395.1	scaffold3789	5599	GG	AA	AA	INTERGENIC			
SNP_110744_A_5782	NW_004518395.1	scaffold3789	5782	GG	AA	AA	INTERGENIC			
SNP_110745_A_5815	NW_004518395.1	scaffold3789	5815	GG	AA	AA	INTERGENIC			
SNP_110746_A_5821	NW_004518395.1	scaffold3789	5821	AA	TT	TT	INTERGENIC			
SNP_110747_A_5823	NW_004518395.1	scaffold3789	5823	AA	CC	CC	INTERGENIC			
SNP_110749_A_5900	NW_004518395.1	scaffold3789	5900	CC	TT	TT	INTERGENIC			
SNP_110750_A_5928	NW_004518395.1	scaffold3789	5928	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110751_A_6081	NW_004518395.1	scaffold3789	6081	CC	AA	AA	INTERGENIC		
SNP_110752_A_6165	NW_004518395.1	scaffold3789	6165	AA	GG	GG	INTERGENIC		
SNP_110753_A_6189	NW_004518395.1	scaffold3789	6189	AA	GG	GG	INTERGENIC		
SNP_110754_A_6409	NW_004518395.1	scaffold3789	6409	CC	AA	AA	INTERGENIC		
SNP_110755_A_6868	NW_004518395.1	scaffold3789	6868	AA	CC	CC	INTERGENIC		
SNP_110756_A_6871	NW_004518395.1	scaffold3789	6871	TT	CC	CC	INTERGENIC		
SNP_110757_A_3095	NW_004518397.1	scaffold3794	3095	TT	CC	CC	URR	101503514	GDSL esterase/lipase APG-like
SNP_110758_A_3107	NW_004518397.1	scaffold3794	3107	GG	AA	AA	URR	101503514	GDSL esterase/lipase APG-like
SNP_110759_A_6972	NW_004518397.1	scaffold3794	6972	CC	TT	TT	INTERGENIC		
SNP_110760_A_11208	NW_004518397.1	scaffold3794	11208	TT	CC	CC	INTRON	101504367	uncharacterized LOC101504367
SNP_110761_A_16261	NW_004518397.1	scaffold3794	16261	GG	AA	AA	INTRON	101504367	uncharacterized LOC101504367
SNP_110762_A_16525	NW_004518397.1	scaffold3794	16525	GG	AA	AA	INTRON	101504367	uncharacterized LOC101504367
SNP_110764_A_22597	NW_004518397.1	scaffold3794	22597	TT	CC	CC	INTRON	101504367	uncharacterized LOC101504367
SNP_110765_A_30922	NW_004518397.1	scaffold3794	30922	GG	AA	AA	INTRON	101504367	uncharacterized LOC101504367
SNP_110766_A_32049	NW_004518397.1	scaffold3794	32049	AA	TT	TT	INTRON	101504367	uncharacterized LOC101504367
SNP_110767_A_32064	NW_004518397.1	scaffold3794	32064	TT	AA	AA	INTRON	101504367	uncharacterized LOC101504367
SNP_110768_A_32242	NW_004518397.1	scaffold3794	32242	AA	TT	TT	INTRON	101504367	uncharacterized LOC101504367
SNP_110769_A_37234	NW_004518397.1	scaffold3794	37234	AA	GG	GG	INTRON	101504367	uncharacterized LOC101504367
SNP_110770_A_37347	NW_004518397.1	scaffold3794	37347	CC	TT	TT	INTRON	101504367	uncharacterized LOC101504367
SNP_110772_A_56676	NW_004518397.1	scaffold3794	56676	TT	CC	CC	INTERGENIC		
SNP_110773_A_56714	NW_004518397.1	scaffold3794	56714	AA	TT	TT	INTERGENIC		
SNP_110774_A_56946	NW_004518397.1	scaffold3794	56946	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110776_A_59910	NW_004518397.1	scaffold3794	59910	TT	CC	CC	INTERGENIC		
SNP_110777_A_60605	NW_004518397.1	scaffold3794	60605	CC	TT	TT	INTERGENIC		
SNP_110778_A_61721	NW_004518397.1	scaffold3794	61721	TT	AA	AA	INTERGENIC		
SNP_110780_A_63950	NW_004518397.1	scaffold3794	63950	GG	AA	AA	DRR	101503851	uncharacterized LOC101503851
SNP_110781_A_64097	NW_004518397.1	scaffold3794	64097	GG	AA	AA	DRR	101503851	uncharacterized LOC101503851
SNP_110782_A_70911	NW_004518397.1	scaffold3794	70911	CC	GG	GG	INTRON	101503851	uncharacterized LOC101503851
SNP_110783_A_71853	NW_004518397.1	scaffold3794	71853	AA	GG	GG	INTRON	101503851	uncharacterized LOC101503851
SNP_110785_A_77287	NW_004518397.1	scaffold3794	77287	GG	AA	AA	INTERGENIC		
SNP_110786_A_77546	NW_004518397.1	scaffold3794	77546	TT	CC	CC	INTERGENIC		
SNP_110789_A_82525	NW_004518397.1	scaffold3794	82525	AA	GG	GG	INTERGENIC		
SNP_110790_A_17808	NW_004518406.1	scaffold3810	17808	TT	CC	CC	INTERGENIC		
SNP_110791_A_17851	NW_004518406.1	scaffold3810	17851	CC	AA	AA	INTERGENIC		
SNP_110792_A_21444	NW_004518406.1	scaffold3810	21444	AA	CC	CC	INTERGENIC		
SNP_110793_A_21478	NW_004518406.1	scaffold3810	21478	AA	GG	GG	INTERGENIC		
SNP_110794_A_21555	NW_004518406.1	scaffold3810	21555	GG	CC	CC	INTERGENIC		
SNP_110795_A_21574	NW_004518406.1	scaffold3810	21574	TT	CC	CC	INTERGENIC		
SNP_110796_A_21647	NW_004518406.1	scaffold3810	21647	TT	GG	GG	INTERGENIC		
SNP_110798_A_24578	NW_004518407.1	scaffold3811	24578	TT	CC	CC	INTERGENIC		
SNP_110799_A_24597	NW_004518407.1	scaffold3811	24597	AA	GG	GG	INTERGENIC		
SNP_110800_A_24632	NW_004518407.1	scaffold3811	24632	TT	AA	AA	INTERGENIC		
SNP_110801_A_24707	NW_004518407.1	scaffold3811	24707	AA	TT	TT	INTERGENIC		
SNP_110803_A_25040	NW_004518407.1	scaffold3811	25040	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110804_A_25060	NW_004518407.1	scaffold3811	25060	TT	CC	CC	INTERGENIC			
SNP_110805_A_789	NW_004518408.1	scaffold3812	789	AA	GG	GG	INTERGENIC			
SNP_110806_A_1650	NW_004518409.1	scaffold3813	1650	TT	GG	GG	INTERGENIC			
SNP_110807_A_2977	NW_004518410.1	scaffold3815	2977	TT	AA	AA	INTERGENIC			
SNP_110808_A_560	NW_004518411.1	scaffold3816	560	AA	CC	CC	INTERGENIC			
SNP_110809_A_2700	NW_004518415.1	scaffold3823	2700	AA	GG	GG	INTERGENIC			
SNP_110810_A_2727	NW_004518415.1	scaffold3823	2727	AA	GG	GG	INTERGENIC			
SNP_110811_A_3709	NW_004518415.1	scaffold3823	3709	TT	GG	GG	INTERGENIC			
SNP_110813_A_8977	NW_004518416.1	scaffold3824	8977	GG	TT	TT	INTERGENIC			
SNP_110814_A_9338	NW_004518416.1	scaffold3824	9338	AA	GG	GG	INTERGENIC			
SNP_110815_A_21663	NW_004518416.1	scaffold3824	21663	GG	AA	AA	INTERGENIC			
SNP_110816_A_21710	NW_004518416.1	scaffold3824	21710	AA	GG	GG	INTERGENIC			
SNP_110817_A_21888	NW_004518416.1	scaffold3824	21888	TT	GG	GG	INTERGENIC			
SNP_110819_A_22047	NW_004518416.1	scaffold3824	22047	TT	GG	GG	INTERGENIC			
SNP_110820_A_22250	NW_004518416.1	scaffold3824	22250	TT	CC	CC	INTERGENIC			
SNP_110821_A_22456	NW_004518416.1	scaffold3824	22456	GG	AA	AA	INTERGENIC			
SNP_110822_A_676	NW_004518419.1	scaffold3830	676	TT	CC	CC	INTERGENIC			
SNP_110823_A_2103	NW_004518423.1	scaffold3837	2103	TT	CC	CC	INTERGENIC			
SNP_110824_A_2139	NW_004518423.1	scaffold3837	2139	CC	GG	GG	INTERGENIC			
SNP_110825_A_2185	NW_004518423.1	scaffold3837	2185	TT	CC	CC	INTERGENIC			
SNP_110826_A_2211	NW_004518423.1	scaffold3837	2211	GG	AA	AA	INTERGENIC			
SNP_110828_A_2548	NW_004518423.1	scaffold3837	2548	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110829_A_2604	NW_004518423.1	scaffold3837	2604	AA	GG	GG	INTERGENIC			
SNP_110830_A_2606	NW_004518423.1	scaffold3837	2606	GG	TT	TT	INTERGENIC			
SNP_110831_A_2623	NW_004518423.1	scaffold3837	2623	CC	TT	TT	INTERGENIC			
SNP_110832_A_2708	NW_004518423.1	scaffold3837	2708	TT	CC	CC	INTERGENIC			
SNP_110833_A_2718	NW_004518423.1	scaffold3837	2718	TT	AA	AA	INTERGENIC			
SNP_110834_A_4989	NW_004518423.1	scaffold3837	4989	TT	CC	CC	INTERGENIC			
SNP_110835_A_5403	NW_004518423.1	scaffold3837	5403	CC	TT	TT	INTERGENIC			
SNP_110836_A_5421	NW_004518423.1	scaffold3837	5421	CC	TT	TT	INTERGENIC			
SNP_110837_A_5429	NW_004518423.1	scaffold3837	5429	CC	TT	TT	INTERGENIC			
SNP_110838_A_5443	NW_004518423.1	scaffold3837	5443	TT	CC	CC	INTERGENIC			
SNP_110839_A_5477	NW_004518423.1	scaffold3837	5477	CC	TT	TT	INTERGENIC			
SNP_110840_A_5480	NW_004518423.1	scaffold3837	5480	TT	AA	AA	INTERGENIC			
SNP_110841_A_5633	NW_004518423.1	scaffold3837	5633	GG	AA	AA	INTERGENIC			
SNP_110842_A_5641	NW_004518423.1	scaffold3837	5641	TT	CC	CC	INTERGENIC			
SNP_110844_A_5689	NW_004518423.1	scaffold3837	5689	TT	CC	CC	INTERGENIC			
SNP_110845_A_5704	NW_004518423.1	scaffold3837	5704	CC	TT	TT	INTERGENIC			
SNP_110846_A_5716	NW_004518423.1	scaffold3837	5716	TT	GG	GG	INTERGENIC			
SNP_110847_A_5747	NW_004518423.1	scaffold3837	5747	CC	GG	GG	INTERGENIC			
SNP_110848_A_5837	NW_004518423.1	scaffold3837	5837	TT	CC	CC	INTERGENIC			
SNP_110849_A_5849	NW_004518423.1	scaffold3837	5849	CC	TT	TT	INTERGENIC			
SNP_110850_A_5875	NW_004518423.1	scaffold3837	5875	GG	TT	TT	INTERGENIC			
SNP_110852_A_5989	NW_004518423.1	scaffold3837	5989	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110853_A_6410	NW_004518423.1	scaffold3837	6410	TT	GG	GG	INTERGENIC			
SNP_110854_A_6416	NW_004518423.1	scaffold3837	6416	AA	GG	GG	INTERGENIC			
SNP_110855_A_6431	NW_004518423.1	scaffold3837	6431	AA	GG	GG	INTERGENIC			
SNP_110856_A_6505	NW_004518423.1	scaffold3837	6505	AA	GG	GG	INTERGENIC			
SNP_110857_A_6512	NW_004518423.1	scaffold3837	6512	CC	TT	TT	INTERGENIC			
SNP_110858_A_6541	NW_004518423.1	scaffold3837	6541	TT	CC	CC	INTERGENIC			
SNP_110859_A_6577	NW_004518423.1	scaffold3837	6577	AA	GG	GG	INTERGENIC			
SNP_110860_A_6612	NW_004518423.1	scaffold3837	6612	GG	CC	CC	INTERGENIC			
SNP_110861_A_6675	NW_004518423.1	scaffold3837	6675	TT	CC	CC	INTERGENIC			
SNP_110862_A_6751	NW_004518423.1	scaffold3837	6751	TT	CC	CC	INTERGENIC			
SNP_110863_A_6916	NW_004518423.1	scaffold3837	6916	AA	GG	GG	INTERGENIC			
SNP_110864_A_6927	NW_004518423.1	scaffold3837	6927	GG	AA	AA	INTERGENIC			
SNP_110865_A_7089	NW_004518423.1	scaffold3837	7089	TT	AA	AA	INTERGENIC			
SNP_110866_A_10431	NW_004518423.1	scaffold3837	10431	AA	CC	CC	INTERGENIC			
SNP_110867_A_10609	NW_004518423.1	scaffold3837	10609	TT	CC	CC	INTERGENIC			
SNP_110868_A_2138	NW_004518426.1	scaffold3842	2138	CC	TT	TT	INTERGENIC			
SNP_110869_A_4500	NW_004518431.1	scaffold3849	4500	AA	CC	CC	INTERGENIC			
SNP_110870_A_4503	NW_004518431.1	scaffold3849	4503	CC	TT	TT	INTERGENIC			
SNP_110872_A_4886	NW_004518432.1	scaffold3850	4886	AA	GG	GG	INTERGENIC			
SNP_110873_A_12626	NW_004518432.1	scaffold3850	12626	AA	TT	TT	INTERGENIC			
SNP_110874_A_13175	NW_004518432.1	scaffold3850	13175	TT	AA	AA	INTERGENIC			
SNP_110875_A_674	NW_004518433.1	scaffold3851	674	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_110876_A_1407	NW_004518433.1	scaffold3851	1407	AA	CC	CC	INTERGENIC		
SNP_110877_A_3315	NW_004518434.1	scaffold3852	3315	TT	AA	AA	INTERGENIC		
SNP_110879_A_424	NW_004518436.1	scaffold3856	424	AA	TT	TT	INTERGENIC		
SNP_110880_A_571	NW_004518436.1	scaffold3856	571	GG	TT	TT	INTERGENIC		
SNP_110881_A_615	NW_004518436.1	scaffold3856	615	AA	GG	GG	INTERGENIC		
SNP_110882_A_5566	NW_004518436.1	scaffold3856	5566	TT	CC	CC	INTERGENIC		
SNP_110883_A_5768	NW_004518436.1	scaffold3856	5768	AA	CC	CC	INTERGENIC		
SNP_110884_A_5784	NW_004518436.1	scaffold3856	5784	TT	CC	CC	INTERGENIC		
SNP_110885_A_6157	NW_004518436.1	scaffold3856	6157	GG	TT	TT	INTERGENIC		
SNP_110886_A_6786	NW_004518436.1	scaffold3856	6786	TT	CC	CC	INTERGENIC		
SNP_110887_A_6826	NW_004518436.1	scaffold3856	6826	TT	GG	GG	INTERGENIC		
SNP_110888_A_13692	NW_004518444.1	scaffold3865	13692	AA	TT	TT	INTRON	101506962	sulfate transporter 4.1, chloroplastic-like
SNP_110889_A_63464	NW_004518444.1	scaffold3865	63464	AA	TT	TT	URR	101508228	serine/threonine-protein phosphatase 7 long form homolog
SNP_110890_A_64361	NW_004518444.1	scaffold3865	64361	TT	CC	CC	URR	101508228	serine/threonine-protein phosphatase 7 long form homolog
SNP_110891_A_64376	NW_004518444.1	scaffold3865	64376	AA	GG	GG	URR	101508228	serine/threonine-protein phosphatase 7 long form homolog
SNP_110892_A_64385	NW_004518444.1	scaffold3865	64385	AA	GG	GG	URR	101508228	serine/threonine-protein phosphatase 7 long form homolog
SNP_110893_A_2531	NW_004518450.1	scaffold3874	2531	TT	CC	CC	INTERGENIC		
SNP_110895_A_7854	NW_004518450.1	scaffold3874	7854	TT	CC	CC	INTERGENIC		
SNP_110897_A_8013	NW_004518450.1	scaffold3874	8013	AA	GG	GG	INTERGENIC		
SNP_110898_A_11626	NW_004518450.1	scaffold3874	11626	GG	AA	AA	INTERGENIC		
SNP_110899_A_11627	NW_004518450.1	scaffold3874	11627	TT	AA	AA	INTERGENIC		
SNP_110900_A_11666	NW_004518450.1	scaffold3874	11666	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110901_A_16124	NW_004518450.1	scaffold3874	16124	TT	CC	CC	INTERGENIC			
SNP_110902_A_16226	NW_004518450.1	scaffold3874	16226	GG	TT	TT	INTERGENIC			
SNP_110903_A_19847	NW_004518451.1	scaffold3876	19847	AA	CC	CC	INTERGENIC			
SNP_110904_A_29430	NW_004518451.1	scaffold3876	29430	TT	CC	CC	INTERGENIC			
SNP_110905_A_29869	NW_004518451.1	scaffold3876	29869	AA	GG	GG	INTERGENIC			
SNP_110906_A_29884	NW_004518451.1	scaffold3876	29884	TT	CC	CC	INTERGENIC			
SNP_110907_A_5777	NW_004518455.1	scaffold3881	5777	GG	CC	CC	INTERGENIC			
SNP_110908_A_1744	NW_004518456.1	scaffold3882	1744	CC	AA	AA	INTERGENIC			
SNP_110909_A_1960	NW_004518456.1	scaffold3882	1960	TT	CC	CC	INTERGENIC			
SNP_110910_A_2001	NW_004518456.1	scaffold3882	2001	TT	GG	GG	INTERGENIC			
SNP_110911_A_849	NW_004518457.1	scaffold3883	849	TT	AA	AA	INTERGENIC			
SNP_110912_A_499	NW_004518460.1	scaffold3887	499	CC	GG	GG	INTERGENIC			
SNP_110913_A_5534	NW_004518463.1	scaffold3890	5534	TT	CC	CC	INTERGENIC			
SNP_110914_A_5635	NW_004518463.1	scaffold3890	5635	TT	CC	CC	INTERGENIC			
SNP_110915_A_5708	NW_004518463.1	scaffold3890	5708	TT	AA	AA	INTERGENIC			
SNP_110916_A_9147	NW_004518463.1	scaffold3890	9147	TT	GG	GG	INTERGENIC			
SNP_110917_A_9157	NW_004518463.1	scaffold3890	9157	CC	AA	AA	INTERGENIC			
SNP_110918_A_784	NW_004518466.1	scaffold3896	784	CC	TT	TT	INTERGENIC			
SNP_110919_A_1116	NW_004518466.1	scaffold3896	1116	CC	AA	AA	INTERGENIC			
SNP_110920_A_2552	NW_004518466.1	scaffold3896	2552	AA	TT	TT	INTERGENIC			
SNP_110921_A_4746	NW_004518469.1	scaffold3900	4746	AA	TT	TT	INTERGENIC			
SNP_110922_A_5338	NW_004518469.1	scaffold3900	5338	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110923_A_5952	NW_004518469.1	scaffold3900	5952	CC	TT	TT	INTERGENIC			
SNP_110924_A_6422	NW_004518469.1	scaffold3900	6422	CC	GG	GG	INTERGENIC			
SNP_110925_A_6990	NW_004518469.1	scaffold3900	6990	GG	AA	AA	INTERGENIC			
SNP_110926_A_7355	NW_004518469.1	scaffold3900	7355	AA	CC	CC	INTERGENIC			
SNP_110927_A_7358	NW_004518469.1	scaffold3900	7358	GG	TT	TT	INTERGENIC			
SNP_110928_A_7552	NW_004518469.1	scaffold3900	7552	AA	TT	TT	INTERGENIC			
SNP_110929_A_7704	NW_004518469.1	scaffold3900	7704	GG	AA	AA	INTERGENIC			
SNP_110930_A_7811	NW_004518469.1	scaffold3900	7811	AA	GG	GG	INTERGENIC			
SNP_110931_A_7900	NW_004518469.1	scaffold3900	7900	GG	TT	TT	INTERGENIC			
SNP_110932_A_11007	NW_004518469.1	scaffold3900	11007	AA	TT	TT	INTERGENIC			
SNP_110933_A_13822	NW_004518469.1	scaffold3900	13822	AA	TT	TT	INTERGENIC			
SNP_110934_A_13855	NW_004518469.1	scaffold3900	13855	AA	GG	GG	INTERGENIC			
SNP_110935_A_13891	NW_004518469.1	scaffold3900	13891	TT	GG	GG	INTERGENIC			
SNP_110936_A_13944	NW_004518469.1	scaffold3900	13944	AA	CC	CC	INTERGENIC			
SNP_110937_A_14140	NW_004518469.1	scaffold3900	14140	TT	CC	CC	INTERGENIC			
SNP_110938_A_14504	NW_004518469.1	scaffold3900	14504	AA	CC	CC	INTERGENIC			
SNP_110939_A_14544	NW_004518469.1	scaffold3900	14544	GG	AA	AA	INTERGENIC			
SNP_110940_A_14583	NW_004518469.1	scaffold3900	14583	CC	GG	GG	INTERGENIC			
SNP_110941_A_14586	NW_004518469.1	scaffold3900	14586	GG	TT	TT	INTERGENIC			
SNP_110942_A_3202	NW_004518471.1	scaffold3902	3202	AA	GG	GG	INTERGENIC			
SNP_110943_A_3205	NW_004518471.1	scaffold3902	3205	GG	AA	AA	INTERGENIC			
SNP_110944_A_3247	NW_004518471.1	scaffold3902	3247	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110945_A_3477	NW_004518471.1	scaffold3902	3477	AA	CC	CC	INTERGENIC			
SNP_110946_A_3487	NW_004518471.1	scaffold3902	3487	GG	AA	AA	INTERGENIC			
SNP_110947_A_3495	NW_004518471.1	scaffold3902	3495	TT	CC	CC	INTERGENIC			
SNP_110948_A_3537	NW_004518471.1	scaffold3902	3537	CC	AA	AA	INTERGENIC			
SNP_110949_A_3546	NW_004518471.1	scaffold3902	3546	CC	GG	GG	INTERGENIC			
SNP_110950_A_3597	NW_004518471.1	scaffold3902	3597	AA	GG	GG	INTERGENIC			
SNP_110951_A_3872	NW_004518471.1	scaffold3902	3872	TT	AA	AA	INTERGENIC			
SNP_110953_A_730	NW_004518474.1	scaffold3906	730	TT	CC	CC	INTERGENIC			
SNP_110954_A_469	NW_004518475.1	scaffold3907	469	CC	TT	TT	INTERGENIC			
SNP_110955_A_529	NW_004518475.1	scaffold3907	529	TT	CC	CC	INTERGENIC			
SNP_110956_A_3548	NW_004518475.1	scaffold3907	3548	TT	CC	CC	INTERGENIC			
SNP_110957_A_6527	NW_004518475.1	scaffold3907	6527	AA	GG	GG	INTERGENIC			
SNP_110958_A_4335	NW_004518477.1	scaffold3909	4335	TT	AA	AA	INTERGENIC			
SNP_110959_A_8085	NW_004518477.1	scaffold3909	8085	CC	TT	TT	INTERGENIC			
SNP_110960_A_8151	NW_004518477.1	scaffold3909	8151	GG	CC	CC	INTERGENIC			
SNP_110961_A_8603	NW_004518477.1	scaffold3909	8603	TT	AA	AA	INTERGENIC			
SNP_110962_A_8604	NW_004518477.1	scaffold3909	8604	AA	TT	TT	INTERGENIC			
SNP_110963_A_1352	NW_004518482.1	scaffold3915	1352	TT	AA	AA	INTERGENIC			
SNP_110964_A_7263	NW_004518482.1	scaffold3915	7263	GG	AA	AA	INTERGENIC			
SNP_110965_A_7413	NW_004518482.1	scaffold3915	7413	CC	TT	TT	INTERGENIC			
SNP_110966_A_7816	NW_004518482.1	scaffold3915	7816	AA	GG	GG	INTERGENIC			
SNP_110967_A_2106	NW_004518484.1	scaffold3917	2106	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110968_A_2111	NW_004518484.1	scaffold3917	2111	CC	TT	TT	INTERGENIC			
SNP_110969_A_2192	NW_004518484.1	scaffold3917	2192	CC	AA	AA	INTERGENIC			
SNP_110970_A_2222	NW_004518484.1	scaffold3917	2222	GG	AA	AA	INTERGENIC			
SNP_110971_A_2298	NW_004518484.1	scaffold3917	2298	GG	AA	AA	INTERGENIC			
SNP_110972_A_2465	NW_004518484.1	scaffold3917	2465	CC	GG	GG	INTERGENIC			
SNP_110973_A_2526	NW_004518484.1	scaffold3917	2526	CC	AA	AA	INTERGENIC			
SNP_110974_A_2604	NW_004518484.1	scaffold3917	2604	AA	GG	GG	INTERGENIC			
SNP_110975_A_2664	NW_004518484.1	scaffold3917	2664	CC	TT	TT	INTERGENIC			
SNP_110976_A_3121	NW_004518484.1	scaffold3917	3121	CC	TT	TT	INTERGENIC			
SNP_110977_A_3128	NW_004518484.1	scaffold3917	3128	TT	CC	CC	INTERGENIC			
SNP_110978_A_3183	NW_004518484.1	scaffold3917	3183	AA	GG	GG	INTERGENIC			
SNP_110979_A_3251	NW_004518484.1	scaffold3917	3251	AA	CC	CC	INTERGENIC			
SNP_110980_A_3304	NW_004518484.1	scaffold3917	3304	TT	CC	CC	INTERGENIC			
SNP_110981_A_3319	NW_004518484.1	scaffold3917	3319	TT	AA	AA	INTERGENIC			
SNP_110982_A_3356	NW_004518484.1	scaffold3917	3356	TT	CC	CC	INTERGENIC			
SNP_110983_A_3375	NW_004518484.1	scaffold3917	3375	CC	AA	AA	INTERGENIC			
SNP_110984_A_3468	NW_004518484.1	scaffold3917	3468	GG	TT	TT	INTERGENIC			
SNP_110985_A_3557	NW_004518484.1	scaffold3917	3557	TT	AA	AA	INTERGENIC			
SNP_110986_A_3765	NW_004518484.1	scaffold3917	3765	CC	AA	AA	INTERGENIC			
SNP_110987_A_3768	NW_004518484.1	scaffold3917	3768	GG	TT	TT	INTERGENIC			
SNP_110988_A_3843	NW_004518484.1	scaffold3917	3843	TT	CC	CC	INTERGENIC			
SNP_110989_A_3890	NW_004518484.1	scaffold3917	3890	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_110990_A_4043	NW_004518484.1	scaffold3917	4043	GG	AA	AA	INTERGENIC			
SNP_110991_A_4167	NW_004518484.1	scaffold3917	4167	CC	AA	AA	INTERGENIC			
SNP_110992_A_4233	NW_004518484.1	scaffold3917	4233	TT	CC	CC	INTERGENIC			
SNP_110994_A_4373	NW_004518484.1	scaffold3917	4373	TT	CC	CC	INTERGENIC			
SNP_110995_A_4423	NW_004518484.1	scaffold3917	4423	CC	TT	TT	INTERGENIC			
SNP_110996_A_4440	NW_004518484.1	scaffold3917	4440	CC	TT	TT	INTERGENIC			
SNP_110997_A_4483	NW_004518484.1	scaffold3917	4483	GG	AA	AA	INTERGENIC			
SNP_110998_A_4512	NW_004518484.1	scaffold3917	4512	AA	GG	GG	INTERGENIC			
SNP_110999_A_4909	NW_004518484.1	scaffold3917	4909	AA	GG	GG	INTERGENIC			
SNP_111000_A_4982	NW_004518484.1	scaffold3917	4982	GG	AA	AA	INTERGENIC			
SNP_111001_A_3942	NW_004518485.1	scaffold3918	3942	TT	CC	CC	INTERGENIC			
SNP_111002_A_3987	NW_004518485.1	scaffold3918	3987	AA	GG	GG	INTERGENIC			
SNP_111003_A_4003	NW_004518485.1	scaffold3918	4003	TT	GG	GG	INTERGENIC			
SNP_111004_A_4012	NW_004518485.1	scaffold3918	4012	AA	GG	GG	INTERGENIC			
SNP_111005_A_4073	NW_004518485.1	scaffold3918	4073	AA	TT	TT	INTERGENIC			
SNP_111006_A_4139	NW_004518485.1	scaffold3918	4139	AA	TT	TT	INTERGENIC			
SNP_111007_A_4242	NW_004518485.1	scaffold3918	4242	AA	CC	CC	INTERGENIC			
SNP_111009_A_4390	NW_004518485.1	scaffold3918	4390	AA	TT	TT	INTERGENIC			
SNP_111010_A_4405	NW_004518485.1	scaffold3918	4405	AA	GG	GG	INTERGENIC			
SNP_111012_A_4654	NW_004518485.1	scaffold3918	4654	CC	AA	AA	INTERGENIC			
SNP_111013_A_4655	NW_004518485.1	scaffold3918	4655	GG	AA	AA	INTERGENIC			
SNP_111014_A_4696	NW_004518485.1	scaffold3918	4696	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111015_A_4836	NW_004518485.1	scaffold3918	4836	CC	AA	AA	INTERGENIC			
SNP_111016_A_4852	NW_004518485.1	scaffold3918	4852	GG	AA	AA	INTERGENIC			
SNP_111017_A_4860	NW_004518485.1	scaffold3918	4860	GG	CC	CC	INTERGENIC			
SNP_111018_A_4915	NW_004518485.1	scaffold3918	4915	AA	CC	CC	INTERGENIC			
SNP_111019_A_4984	NW_004518485.1	scaffold3918	4984	TT	CC	CC	INTERGENIC			
SNP_111020_A_5065	NW_004518485.1	scaffold3918	5065	CC	TT	TT	INTERGENIC			
SNP_111021_A_5085	NW_004518485.1	scaffold3918	5085	TT	AA	AA	INTERGENIC			
SNP_111022_A_5112	NW_004518485.1	scaffold3918	5112	AA	GG	GG	INTERGENIC			
SNP_111023_A_5129	NW_004518485.1	scaffold3918	5129	CC	TT	TT	INTERGENIC			
SNP_111024_A_5143	NW_004518485.1	scaffold3918	5143	AA	CC	CC	INTERGENIC			
SNP_111025_A_5199	NW_004518485.1	scaffold3918	5199	TT	CC	CC	INTERGENIC			
SNP_111026_A_5267	NW_004518485.1	scaffold3918	5267	TT	CC	CC	INTERGENIC			
SNP_111027_A_5385	NW_004518485.1	scaffold3918	5385	TT	CC	CC	INTERGENIC			
SNP_111028_A_5398	NW_004518485.1	scaffold3918	5398	AA	CC	CC	INTERGENIC			
SNP_111029_A_5409	NW_004518485.1	scaffold3918	5409	TT	CC	CC	INTERGENIC			
SNP_111030_A_5442	NW_004518485.1	scaffold3918	5442	TT	CC	CC	INTERGENIC			
SNP_111031_A_5460	NW_004518485.1	scaffold3918	5460	CC	TT	TT	INTERGENIC			
SNP_111032_A_5481	NW_004518485.1	scaffold3918	5481	GG	TT	TT	INTERGENIC			
SNP_111033_A_5521	NW_004518485.1	scaffold3918	5521	GG	CC	CC	INTERGENIC			
SNP_111034_A_5582	NW_004518485.1	scaffold3918	5582	TT	AA	AA	INTERGENIC			
SNP_111035_A_5597	NW_004518485.1	scaffold3918	5597	TT	AA	AA	INTERGENIC			
SNP_111036_A_5632	NW_004518485.1	scaffold3918	5632	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111037_A_5650	NW_004518485.1	scaffold3918	5650	TT	CC	CC	INTERGENIC			
SNP_111038_A_5696	NW_004518485.1	scaffold3918	5696	TT	AA	AA	INTERGENIC			
SNP_111039_A_5833	NW_004518485.1	scaffold3918	5833	CC	TT	TT	INTERGENIC			
SNP_111040_A_5834	NW_004518485.1	scaffold3918	5834	AA	GG	GG	INTERGENIC			
SNP_111041_A_6080	NW_004518485.1	scaffold3918	6080	GG	AA	AA	INTERGENIC			
SNP_111042_A_6086	NW_004518485.1	scaffold3918	6086	TT	GG	GG	INTERGENIC			
SNP_111043_A_6225	NW_004518485.1	scaffold3918	6225	AA	TT	TT	INTERGENIC			
SNP_111044_A_6307	NW_004518485.1	scaffold3918	6307	TT	AA	AA	INTERGENIC			
SNP_111045_A_6356	NW_004518485.1	scaffold3918	6356	TT	CC	CC	INTERGENIC			
SNP_111046_A_6421	NW_004518485.1	scaffold3918	6421	AA	TT	TT	INTERGENIC			
SNP_111047_A_6494	NW_004518485.1	scaffold3918	6494	AA	CC	CC	INTERGENIC			
SNP_111048_A_6502	NW_004518485.1	scaffold3918	6502	GG	AA	AA	INTERGENIC			
SNP_111049_A_6535	NW_004518485.1	scaffold3918	6535	TT	CC	CC	INTERGENIC			
SNP_111050_A_6548	NW_004518485.1	scaffold3918	6548	TT	CC	CC	INTERGENIC			
SNP_111051_A_6602	NW_004518485.1	scaffold3918	6602	AA	CC	CC	INTERGENIC			
SNP_111052_A_6909	NW_004518485.1	scaffold3918	6909	CC	AA	AA	INTERGENIC			
SNP_111053_A_10275	NW_004518485.1	scaffold3918	10275	GG	AA	AA	INTERGENIC			
SNP_111054_A_475	NW_004518487.1	scaffold3920	475	GG	AA	AA	INTERGENIC			
SNP_111055_A_207	NW_004518489.1	scaffold3923	207	TT	CC	CC	INTERGENIC			
SNP_111056_A_1704	NW_004518489.1	scaffold3923	1704	AA	GG	GG	INTERGENIC			
SNP_111057_A_1859	NW_004518489.1	scaffold3923	1859	GG	AA	AA	INTERGENIC			
SNP_111058_A_1862	NW_004518489.1	scaffold3923	1862	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111059_A_1924	NW_004518489.1	scaffold3923	1924	AA	GG	GG	INTERGENIC			
SNP_111060_A_1928	NW_004518489.1	scaffold3923	1928	AA	GG	GG	INTERGENIC			
SNP_111061_A_1943	NW_004518489.1	scaffold3923	1943	GG	TT	TT	INTERGENIC			
SNP_111062_A_1945	NW_004518489.1	scaffold3923	1945	TT	CC	CC	INTERGENIC			
SNP_111063_A_1963	NW_004518489.1	scaffold3923	1963	AA	GG	GG	INTERGENIC			
SNP_111064_A_1964	NW_004518489.1	scaffold3923	1964	GG	AA	AA	INTERGENIC			
SNP_111065_A_1972	NW_004518489.1	scaffold3923	1972	TT	GG	GG	INTERGENIC			
SNP_111066_A_2003	NW_004518489.1	scaffold3923	2003	GG	TT	TT	INTERGENIC			
SNP_111067_A_2018	NW_004518489.1	scaffold3923	2018	AA	GG	GG	INTERGENIC			
SNP_111068_A_2246	NW_004518489.1	scaffold3923	2246	CC	AA	AA	INTERGENIC			
SNP_111070_A_3256	NW_004518489.1	scaffold3923	3256	AA	GG	GG	INTERGENIC			
SNP_111071_A_3295	NW_004518489.1	scaffold3923	3295	AA	GG	GG	INTERGENIC			
SNP_111073_A_4239	NW_004518489.1	scaffold3923	4239	TT	CC	CC	INTERGENIC			
SNP_111076_A_732	NW_004518495.1	scaffold3932	732	AA	GG	GG	INTERGENIC			
SNP_111077_A_742	NW_004518495.1	scaffold3932	742	GG	TT	TT	INTERGENIC			
SNP_111078_A_2251	NW_004518495.1	scaffold3932	2251	AA	TT	TT	INTERGENIC			
SNP_111079_A_4700	NW_004518495.1	scaffold3932	4700	CC	TT	TT	INTERGENIC			
SNP_111080_A_4716	NW_004518495.1	scaffold3932	4716	CC	AA	AA	INTERGENIC			
SNP_111081_A_1387	NW_004518496.1	scaffold3933	1387	CC	AA	AA	INTERGENIC			
SNP_111082_A_1013	NW_004518497.1	scaffold3934	1013	TT	AA	AA	INTERGENIC			
SNP_111083_A_3804	NW_004518497.1	scaffold3934	3804	TT	CC	CC	INTERGENIC			
SNP_111084_A_3842	NW_004518497.1	scaffold3934	3842	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111085_A_3851	NW_004518497.1	scaffold3934	3851	GG	AA	AA	INTERGENIC		
SNP_111086_A_4641	NW_004518497.1	scaffold3934	4641	GG	TT	TT	INTERGENIC		
SNP_111087_A_5295	NW_004518497.1	scaffold3934	5295	AA	GG	GG	INTERGENIC		
SNP_111088_A_10130	NW_004518497.1	scaffold3934	10130	AA	CC	CC	INTERGENIC		
SNP_111089_A_14138	NW_004518497.1	scaffold3934	14138	TT	GG	GG	INTERGENIC		
SNP_111090_A_17400	NW_004518497.1	scaffold3934	17400	GG	TT	TT	INTERGENIC		
SNP_111092_A_4806	NW_004518504.1	scaffold3942	4806	TT	GG	GG	INTERGENIC		
SNP_111093_A_4835	NW_004518504.1	scaffold3942	4835	AA	TT	TT	INTERGENIC		
SNP_111094_A_4844	NW_004518504.1	scaffold3942	4844	CC	TT	TT	INTERGENIC		
SNP_111095_A_5021	NW_004518504.1	scaffold3942	5021	CC	TT	TT	INTERGENIC		
SNP_111096_A_5029	NW_004518504.1	scaffold3942	5029	TT	CC	CC	INTERGENIC		
SNP_111097_A_5077	NW_004518504.1	scaffold3942	5077	GG	CC	CC	INTERGENIC		
SNP_111098_A_5079	NW_004518504.1	scaffold3942	5079	TT	GG	GG	INTERGENIC		
SNP_111099_A_2866	NW_004518507.1	scaffold3945	2866	GG	TT	TT	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_111100_A_5216	NW_004518507.1	scaffold3945	5216	GG	CC	CC	INTERGENIC		
SNP_111101_A_11332	NW_004518507.1	scaffold3945	11332	TT	GG	GG	URR	101508867	cytochrome c biogenesis CcmF C-terminal-like mitochondrial protein
SNP_111102_A_11391	NW_004518507.1	scaffold3945	11391	TT	GG	GG	URR	101508867	cytochrome c biogenesis CcmF C-terminal-like mitochondrial protein
SNP_111103_A_11541	NW_004518507.1	scaffold3945	11541	AA	CC	CC	URR	101508867	cytochrome c biogenesis CcmF C-terminal-like mitochondrial protein
SNP_111104_A_11597	NW_004518507.1	scaffold3945	11597	GG	CC	CC	URR	101508867	cytochrome c biogenesis CcmF C-terminal-like mitochondrial protein
SNP_111105_A_13004	NW_004518507.1	scaffold3945	13004	TT	CC	CC	DRR	101509189	NADH-ubiquinone oxidoreductase chain 6
SNP_111106_A_28624	NW_004518507.1	scaffold3945	28624	GG	TT	TT	DRR	101509836	NADH-ubiquinone oxidoreductase chain 3
SNP_111107_A_28629	NW_004518507.1	scaffold3945	28629	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111108_A_31783	NW_004518507.1	scaffold3945	31783	AA	TT	TT	INTERGENIC			
SNP_111112_A_10744	NW_004518509.1	scaffold3947	10744	TT	GG	GG	INTERGENIC			
SNP_111113_A_10746	NW_004518509.1	scaffold3947	10746	AA	TT	TT	INTERGENIC			
SNP_111114_A_11486	NW_004518509.1	scaffold3947	11486	TT	GG	GG	INTERGENIC			
SNP_111115_A_12395	NW_004518509.1	scaffold3947	12395	TT	AA	AA	INTERGENIC			
SNP_111116_A_13031	NW_004518509.1	scaffold3947	13031	CC	TT	TT	INTERGENIC			
SNP_111117_A_19940	NW_004518509.1	scaffold3947	19940	CC	AA	AA	INTERGENIC			
SNP_111118_A_19962	NW_004518509.1	scaffold3947	19962	GG	AA	AA	INTERGENIC			
SNP_111119_A_109	NW_004518510.1	scaffold3948	109	TT	AA	AA	INTERGENIC			
SNP_111120_A_111	NW_004518510.1	scaffold3948	111	CC	GG	GG	INTERGENIC			
SNP_111121_A_1740	NW_004518511.1	scaffold3950	1740	GG	TT	TT	INTERGENIC			
SNP_111122_A_1747	NW_004518511.1	scaffold3950	1747	TT	AA	AA	INTERGENIC			
SNP_111123_A_1882	NW_004518511.1	scaffold3950	1882	TT	AA	AA	INTERGENIC			
SNP_111124_A_4094	NW_004518511.1	scaffold3950	4094	GG	AA	AA	INTERGENIC			
SNP_111125_A_4211	NW_004518511.1	scaffold3950	4211	AA	GG	GG	INTERGENIC			
SNP_111126_A_4326	NW_004518511.1	scaffold3950	4326	AA	GG	GG	INTERGENIC			
SNP_111127_A_4421	NW_004518511.1	scaffold3950	4421	TT	CC	CC	INTERGENIC			
SNP_111128_A_4565	NW_004518511.1	scaffold3950	4565	AA	GG	GG	INTERGENIC			
SNP_111129_A_4588	NW_004518511.1	scaffold3950	4588	CC	TT	TT	INTERGENIC			
SNP_111130_A_4713	NW_004518511.1	scaffold3950	4713	TT	CC	CC	INTERGENIC			
SNP_111131_A_4766	NW_004518511.1	scaffold3950	4766	CC	TT	TT	INTERGENIC			
SNP_111132_A_4886	NW_004518511.1	scaffold3950	4886	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111133_A_6177	NW_004518511.1	scaffold3950	6177	CC	AA	AA	INTERGENIC			
SNP_111134_A_6181	NW_004518511.1	scaffold3950	6181	AA	CC	CC	INTERGENIC			
SNP_111135_A_6821	NW_004518511.1	scaffold3950	6821	TT	CC	CC	INTERGENIC			
SNP_111136_A_6958	NW_004518511.1	scaffold3950	6958	TT	GG	GG	INTERGENIC			
SNP_111137_A_7005	NW_004518511.1	scaffold3950	7005	CC	TT	TT	INTERGENIC			
SNP_111138_A_7026	NW_004518511.1	scaffold3950	7026	CC	TT	TT	INTERGENIC			
SNP_111139_A_7073	NW_004518511.1	scaffold3950	7073	GG	CC	CC	INTERGENIC			
SNP_111140_A_7107	NW_004518511.1	scaffold3950	7107	TT	CC	CC	INTERGENIC			
SNP_111141_A_7114	NW_004518511.1	scaffold3950	7114	TT	GG	GG	INTERGENIC			
SNP_111143_A_7432	NW_004518511.1	scaffold3950	7432	TT	CC	CC	INTERGENIC			
SNP_111144_A_7497	NW_004518511.1	scaffold3950	7497	TT	AA	AA	INTERGENIC			
SNP_111145_A_7543	NW_004518511.1	scaffold3950	7543	AA	GG	GG	INTERGENIC			
SNP_111146_A_7620	NW_004518511.1	scaffold3950	7620	GG	TT	TT	INTERGENIC			
SNP_111149_A_7838	NW_004518511.1	scaffold3950	7838	AA	GG	GG	INTERGENIC			
SNP_111150_A_8033	NW_004518511.1	scaffold3950	8033	AA	GG	GG	INTERGENIC			
SNP_111151_A_8132	NW_004518511.1	scaffold3950	8132	AA	GG	GG	INTERGENIC			
SNP_111153_A_8203	NW_004518511.1	scaffold3950	8203	TT	CC	CC	INTERGENIC			
SNP_111154_A_8206	NW_004518511.1	scaffold3950	8206	TT	AA	AA	INTERGENIC			
SNP_111155_A_8336	NW_004518511.1	scaffold3950	8336	CC	TT	TT	INTERGENIC			
SNP_111156_A_8434	NW_004518511.1	scaffold3950	8434	TT	CC	CC	INTERGENIC			
SNP_111158_A_8554	NW_004518511.1	scaffold3950	8554	CC	TT	TT	INTERGENIC			
SNP_111160_A_8707	NW_004518511.1	scaffold3950	8707	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111161_A_8750	NW_004518511.1	scaffold3950	8750	AA	CC	CC	INTERGENIC		
SNP_111162_A_8906	NW_004518511.1	scaffold3950	8906	CC	TT	TT	INTERGENIC		
SNP_111163_A_8942	NW_004518511.1	scaffold3950	8942	AA	TT	TT	INTERGENIC		
SNP_111164_A_8944	NW_004518511.1	scaffold3950	8944	TT	CC	CC	INTERGENIC		
SNP_111165_A_8965	NW_004518511.1	scaffold3950	8965	GG	AA	AA	INTERGENIC		
SNP_111166_A_9105	NW_004518511.1	scaffold3950	9105	AA	GG	GG	INTERGENIC		
SNP_111167_A_9124	NW_004518511.1	scaffold3950	9124	TT	GG	GG	INTERGENIC		
SNP_111168_A_9139	NW_004518511.1	scaffold3950	9139	CC	TT	TT	INTERGENIC		
SNP_111169_A_9164	NW_004518511.1	scaffold3950	9164	AA	GG	GG	INTERGENIC		
SNP_111170_A_9217	NW_004518511.1	scaffold3950	9217	AA	GG	GG	INTERGENIC		
SNP_111172_A_12849	NW_004518511.1	scaffold3950	12849	TT	CC	CC	DRR	101510918	uncharacterized LOC101510918
SNP_111173_A_13049	NW_004518511.1	scaffold3950	13049	CC	AA	AA	DRR	101510918	uncharacterized LOC101510918
SNP_111174_A_15029	NW_004518511.1	scaffold3950	15029	CC	GG	GG	NON_SYNONYMOUS_CODING	101510918	uncharacterized LOC101510918
SNP_111175_A_15393	NW_004518511.1	scaffold3950	15393	AA	CC	CC	URR	101510918	uncharacterized LOC101510918
SNP_111176_A_1132	NW_004518512.1	scaffold3951	1132	TT	AA	AA	INTERGENIC		
SNP_111177_A_1133	NW_004518512.1	scaffold3951	1133	TT	GG	GG	INTERGENIC		
SNP_111178_A_1136	NW_004518512.1	scaffold3951	1136	TT	AA	AA	INTERGENIC		
SNP_111179_A_1156	NW_004518512.1	scaffold3951	1156	AA	GG	GG	INTERGENIC		
SNP_111180_A_1828	NW_004518512.1	scaffold3951	1828	AA	TT	TT	INTERGENIC		
SNP_111182_A_1923	NW_004518512.1	scaffold3951	1923	CC	TT	TT	INTERGENIC		
SNP_111183_A_2866	NW_004518512.1	scaffold3951	2866	AA	GG	GG	INTERGENIC		
SNP_111184_A_2870	NW_004518512.1	scaffold3951	2870	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111186_A_2911	NW_004518512.1	scaffold3951	2911	GG	CC	CC	INTERGENIC			
SNP_111188_A_809	NW_004518513.1	scaffold3952	809	AA	GG	GG	INTERGENIC			
SNP_111189_A_1058	NW_004518513.1	scaffold3952	1058	TT	CC	CC	INTERGENIC			
SNP_111190_A_1104	NW_004518513.1	scaffold3952	1104	AA	GG	GG	INTERGENIC			
SNP_111191_A_1174	NW_004518513.1	scaffold3952	1174	AA	GG	GG	INTERGENIC			
SNP_111192_A_1253	NW_004518513.1	scaffold3952	1253	TT	CC	CC	INTERGENIC			
SNP_111193_A_397	NW_004518514.1	scaffold3953	397	CC	TT	TT	INTERGENIC			
SNP_111195_A_485	NW_004518514.1	scaffold3953	485	CC	TT	TT	INTERGENIC			
SNP_111196_A_64	NW_004518519.1	scaffold3962	64	TT	GG	GG	INTERGENIC			
SNP_111197_A_388	NW_004518519.1	scaffold3962	388	AA	CC	CC	INTERGENIC			
SNP_111198_A_389	NW_004518519.1	scaffold3962	389	CC	TT	TT	INTERGENIC			
SNP_111199_A_3774	NW_004518523.1	scaffold3967	3774	GG	AA	AA	INTERGENIC			
SNP_111200_A_3796	NW_004518523.1	scaffold3967	3796	CC	TT	TT	INTERGENIC			
SNP_111201_A_3896	NW_004518523.1	scaffold3967	3896	AA	CC	CC	INTERGENIC			
SNP_111202_A_4948	NW_004518525.1	scaffold3970	4948	CC	AA	AA	INTERGENIC			
SNP_111203_A_4980	NW_004518525.1	scaffold3970	4980	CC	AA	AA	INTERGENIC			
SNP_111204_A_635	NW_004518528.1	scaffold3973	635	TT	CC	CC	INTERGENIC			
SNP_111205_A_35	NW_004518533.1	scaffold3979	35	CC	TT	TT	INTERGENIC			
SNP_111206_A_64	NW_004518533.1	scaffold3979	64	TT	GG	GG	INTERGENIC			
SNP_111207_A_76	NW_004518533.1	scaffold3979	76	CC	AA	AA	INTERGENIC			
SNP_111208_A_673	NW_004518533.1	scaffold3979	673	TT	AA	AA	INTERGENIC			
SNP_111209_A_15754	NW_004518537.1	scaffold3985	15754	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111210_A_1016	NW_004518541.1	scaffold3989	1016	TT	GG	GG	INTERGENIC			
SNP_111211_A_580	NW_004518547.1	scaffold3996	580	CC	TT	TT	INTERGENIC			
SNP_111212_A_665	NW_004518547.1	scaffold3996	665	TT	GG	GG	INTERGENIC			
SNP_111213_A_870	NW_004518550.1	scaffold4002	870	AA	GG	GG	INTERGENIC			
SNP_111214_A_1120	NW_004518550.1	scaffold4002	1120	CC	AA	AA	INTERGENIC			
SNP_111215_A_2949	NW_004518550.1	scaffold4002	2949	GG	AA	AA	INTERGENIC			
SNP_111216_A_2952	NW_004518550.1	scaffold4002	2952	AA	CC	CC	INTERGENIC			
SNP_111217_A_22467	NW_004518551.1	scaffold4003	22467	TT	CC	CC	INTERGENIC			
SNP_111218_A_22891	NW_004518551.1	scaffold4003	22891	GG	TT	TT	INTERGENIC			
SNP_111219_A_23772	NW_004518551.1	scaffold4003	23772	GG	CC	CC	INTERGENIC			
SNP_111220_A_23780	NW_004518551.1	scaffold4003	23780	GG	AA	AA	INTERGENIC			
SNP_111221_A_64	NW_004518554.1	scaffold4007	64	GG	AA	AA	INTERGENIC			
SNP_111222_A_68	NW_004518554.1	scaffold4007	68	CC	AA	AA	INTERGENIC			
SNP_111223_A_1423	NW_004518554.1	scaffold4007	1423	AA	GG	GG	INTERGENIC			
SNP_111225_A_32079	NW_004518557.1	scaffold4011	32079	GG	TT	TT	INTERGENIC			
SNP_111226_A_65207	NW_004518557.1	scaffold4011	65207	AA	GG	GG	INTERGENIC			
SNP_111229_A_1092	NW_004518559.1	scaffold4014	1092	CC	AA	AA	INTERGENIC			
SNP_111230_A_1012	NW_004518561.1	scaffold4017	1012	CC	TT	TT	INTERGENIC			
SNP_111231_A_1040	NW_004518561.1	scaffold4017	1040	AA	TT	TT	INTERGENIC			
SNP_111232_A_1042	NW_004518561.1	scaffold4017	1042	CC	TT	TT	INTERGENIC			
SNP_111233_A_467	NW_004518563.1	scaffold4020	467	AA	TT	TT	INTERGENIC			
SNP_111235_A_10919	NW_004518563.1	scaffold4020	10919	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111236_A_3734	NW_004518565.1	scaffold4024	3734	GG	TT	TT	INTERGENIC			
SNP_111237_A_3827	NW_004518565.1	scaffold4024	3827	AA	GG	GG	INTERGENIC			
SNP_111238_A_5985	NW_004518565.1	scaffold4024	5985	CC	TT	TT	INTERGENIC			
SNP_111239_A_365	NW_004518567.1	scaffold4026	365	TT	AA	AA	INTERGENIC			
SNP_111240_A_8238	NW_004518568.1	scaffold4028	8238	AA	GG	GG	INTERGENIC			
SNP_111241_A_8377	NW_004518568.1	scaffold4028	8377	TT	CC	CC	INTERGENIC			
SNP_111242_A_8677	NW_004518568.1	scaffold4028	8677	AA	TT	TT	INTERGENIC			
SNP_111243_A_8690	NW_004518568.1	scaffold4028	8690	TT	CC	CC	INTERGENIC			
SNP_111244_A_14598	NW_004518568.1	scaffold4028	14598	TT	CC	CC	INTERGENIC			
SNP_111245_A_25263	NW_004518568.1	scaffold4028	25263	TT	CC	CC	INTERGENIC			
SNP_111246_A_27055	NW_004518568.1	scaffold4028	27055	AA	TT	TT	INTERGENIC			
SNP_111247_A_27121	NW_004518568.1	scaffold4028	27121	GG	AA	AA	INTERGENIC			
SNP_111248_A_27129	NW_004518568.1	scaffold4028	27129	GG	AA	AA	INTERGENIC			
SNP_111250_A_27608	NW_004518568.1	scaffold4028	27608	GG	AA	AA	INTERGENIC			
SNP_111251_A_27654	NW_004518568.1	scaffold4028	27654	GG	TT	TT	INTERGENIC			
SNP_111252_A_38444	NW_004518568.1	scaffold4028	38444	AA	CC	CC	INTERGENIC			
SNP_111253_A_42401	NW_004518568.1	scaffold4028	42401	AA	CC	CC	INTERGENIC			
SNP_111254_A_44136	NW_004518568.1	scaffold4028	44136	AA	TT	TT	INTERGENIC			
SNP_111255_A_532	NW_004518570.1	scaffold4031	532	TT	CC	CC	INTERGENIC			
SNP_111256_A_730	NW_004518570.1	scaffold4031	730	AA	GG	GG	INTERGENIC			
SNP_111257_A_732	NW_004518570.1	scaffold4031	732	AA	CC	CC	INTERGENIC			
SNP_111258_A_900	NW_004518570.1	scaffold4031	900	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111259_A_1058	NW_004518570.1	scaffold4031	1058	AA	GG	GG	INTERGENIC			
SNP_111260_A_1087	NW_004518570.1	scaffold4031	1087	GG	AA	AA	INTERGENIC			
SNP_111261_A_2185	NW_004518571.1	scaffold4032	2185	CC	TT	TT	INTERGENIC			
SNP_111262_A_2218	NW_004518571.1	scaffold4032	2218	TT	AA	AA	INTERGENIC			
SNP_111263_A_2250	NW_004518571.1	scaffold4032	2250	TT	AA	AA	INTERGENIC			
SNP_111264_A_2287	NW_004518571.1	scaffold4032	2287	AA	CC	CC	INTERGENIC			
SNP_111265_A_2518	NW_004518571.1	scaffold4032	2518	GG	AA	AA	INTERGENIC			
SNP_111266_A_2553	NW_004518571.1	scaffold4032	2553	TT	CC	CC	INTERGENIC			
SNP_111267_A_2556	NW_004518571.1	scaffold4032	2556	GG	AA	AA	INTERGENIC			
SNP_111268_A_2586	NW_004518571.1	scaffold4032	2586	AA	CC	CC	INTERGENIC			
SNP_111269_A_2640	NW_004518571.1	scaffold4032	2640	CC	GG	GG	INTERGENIC			
SNP_111270_A_2704	NW_004518571.1	scaffold4032	2704	AA	CC	CC	INTERGENIC			
SNP_111271_A_6843	NW_004518571.1	scaffold4032	6843	TT	AA	AA	INTERGENIC			
SNP_111272_A_6846	NW_004518571.1	scaffold4032	6846	CC	AA	AA	INTERGENIC			
SNP_111273_A_6851	NW_004518571.1	scaffold4032	6851	GG	AA	AA	INTERGENIC			
SNP_111274_A_2964	NW_004518572.1	scaffold4034	2964	TT	CC	CC	INTERGENIC			
SNP_111275_A_3154	NW_004518572.1	scaffold4034	3154	TT	CC	CC	INTERGENIC			
SNP_111276_A_3162	NW_004518572.1	scaffold4034	3162	AA	GG	GG	INTERGENIC			
SNP_111277_A_3396	NW_004518572.1	scaffold4034	3396	AA	GG	GG	INTERGENIC			
SNP_111278_A_798	NW_004518575.1	scaffold4038	798	TT	GG	GG	INTERGENIC			
SNP_111279_A_813	NW_004518575.1	scaffold4038	813	AA	GG	GG	INTERGENIC			
SNP_111281_A_874	NW_004518575.1	scaffold4038	874	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111282_A_994	NW_004518575.1	scaffold4038	994	AA	CC	CC	INTERGENIC			
SNP_111283_A_1057	NW_004518575.1	scaffold4038	1057	GG	TT	TT	INTERGENIC			
SNP_111285_A_1145	NW_004518575.1	scaffold4038	1145	TT	GG	GG	INTERGENIC			
SNP_111286_A_64	NW_004518578.1	scaffold4041	64	TT	AA	AA	INTERGENIC			
SNP_111287_A_99	NW_004518578.1	scaffold4041	99	CC	AA	AA	INTERGENIC			
SNP_111288_A_150	NW_004518578.1	scaffold4041	150	TT	GG	GG	INTERGENIC			
SNP_111289_A_249	NW_004518578.1	scaffold4041	249	GG	CC	CC	INTERGENIC			
SNP_111291_A_971	NW_004518578.1	scaffold4041	971	GG	TT	TT	INTERGENIC			
SNP_111293_A_15330	NW_004518578.1	scaffold4041	15330	AA	GG	GG	INTERGENIC			
SNP_111294_A_15454	NW_004518578.1	scaffold4041	15454	TT	CC	CC	INTERGENIC			
SNP_111295_A_15501	NW_004518578.1	scaffold4041	15501	GG	CC	CC	INTERGENIC			
SNP_111296_A_15539	NW_004518578.1	scaffold4041	15539	TT	AA	AA	INTERGENIC			
SNP_111297_A_15666	NW_004518578.1	scaffold4041	15666	TT	CC	CC	INTERGENIC			
SNP_111298_A_15667	NW_004518578.1	scaffold4041	15667	TT	AA	AA	INTERGENIC			
SNP_111300_A_15746	NW_004518578.1	scaffold4041	15746	TT	CC	CC	INTERGENIC			
SNP_111302_A_15777	NW_004518578.1	scaffold4041	15777	CC	GG	GG	INTERGENIC			
SNP_111303_A_15784	NW_004518578.1	scaffold4041	15784	GG	CC	CC	INTERGENIC			
SNP_111304_A_15847	NW_004518578.1	scaffold4041	15847	CC	TT	TT	INTERGENIC			
SNP_111306_A_15873	NW_004518578.1	scaffold4041	15873	TT	CC	CC	INTERGENIC			
SNP_111307_A_15905	NW_004518578.1	scaffold4041	15905	AA	TT	TT	INTERGENIC			
SNP_111309_A_16001	NW_004518578.1	scaffold4041	16001	CC	TT	TT	INTERGENIC			
SNP_111310_A_16018	NW_004518578.1	scaffold4041	16018	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111311_A_16116	NW_004518578.1	scaffold4041	16116	TT	AA	AA	INTERGENIC		
SNP_111312_A_16142	NW_004518578.1	scaffold4041	16142	AA	CC	CC	INTERGENIC		
SNP_111313_A_16146	NW_004518578.1	scaffold4041	16146	AA	GG	GG	INTERGENIC		
SNP_111314_A_16148	NW_004518578.1	scaffold4041	16148	CC	TT	TT	INTERGENIC		
SNP_111316_A_16221	NW_004518578.1	scaffold4041	16221	TT	AA	AA	INTERGENIC		
SNP_111317_A_16346	NW_004518578.1	scaffold4041	16346	GG	AA	AA	INTERGENIC		
SNP_111318_A_16399	NW_004518578.1	scaffold4041	16399	GG	AA	AA	INTERGENIC		
SNP_111319_A_16403	NW_004518578.1	scaffold4041	16403	TT	AA	AA	INTERGENIC		
SNP_111320_A_38289	NW_004518578.1	scaffold4041	38289	TT	CC	CC	URR	101488520	peroxisome biogenesis protein 22
SNP_111321_A_39693	NW_004518578.1	scaffold4041	39693	GG	AA	AA	INTERGENIC		
SNP_111322_A_39819	NW_004518578.1	scaffold4041	39819	CC	TT	TT	INTERGENIC		
SNP_111323_A_239	NW_004518580.1	scaffold4045	239	AA	CC	CC	INTERGENIC		
SNP_111324_A_240	NW_004518580.1	scaffold4045	240	CC	AA	AA	INTERGENIC		
SNP_111325_A_567	NW_004518580.1	scaffold4045	567	TT	CC	CC	INTERGENIC		
SNP_111326_A_590	NW_004518580.1	scaffold4045	590	AA	GG	GG	INTERGENIC		
SNP_111327_A_1560	NW_004518580.1	scaffold4045	1560	CC	AA	AA	INTERGENIC		
SNP_111331_A_6630	NW_004518588.1	scaffold4057	6630	CC	TT	TT	INTERGENIC		
SNP_111332_A_7565	NW_004518588.1	scaffold4057	7565	AA	GG	GG	DRR	101490281	uncharacterized LOC101490281
SNP_111333_A_18988	NW_004518588.1	scaffold4057	18988	TT	AA	AA	INTRON	101490598	aspartic proteinase-like protein 2
SNP_111334_A_34319	NW_004518588.1	scaffold4057	34319	AA	CC	CC	INTERGENIC		
SNP_111336_A_2736	NW_004518590.1	scaffold4061	2736	AA	TT	TT	INTERGENIC		
SNP_111337_A_2772	NW_004518590.1	scaffold4061	2772	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111338_A_7205	NW_004518590.1	scaffold4061	7205	TT	GG	GG	INTERGENIC			
SNP_111339_A_8180	NW_004518590.1	scaffold4061	8180	AA	CC	CC	INTERGENIC			
SNP_111340_A_8203	NW_004518590.1	scaffold4061	8203	GG	AA	AA	INTERGENIC			
SNP_111341_A_8205	NW_004518590.1	scaffold4061	8205	TT	AA	AA	INTERGENIC			
SNP_111343_A_8246	NW_004518590.1	scaffold4061	8246	AA	GG	GG	INTERGENIC			
SNP_111344_A_8255	NW_004518590.1	scaffold4061	8255	AA	GG	GG	INTERGENIC			
SNP_111345_A_12172	NW_004518590.1	scaffold4061	12172	CC	TT	TT	INTERGENIC			
SNP_111346_A_556	NW_004518592.1	scaffold4064	556	TT	GG	GG	INTERGENIC			
SNP_111347_A_601	NW_004518592.1	scaffold4064	601	CC	GG	GG	INTERGENIC			
SNP_111348_A_694	NW_004518592.1	scaffold4064	694	AA	GG	GG	INTERGENIC			
SNP_111350_A_912	NW_004518592.1	scaffold4064	912	AA	GG	GG	INTERGENIC			
SNP_111351_A_987	NW_004518592.1	scaffold4064	987	TT	GG	GG	INTERGENIC			
SNP_111352_A_1018	NW_004518592.1	scaffold4064	1018	AA	GG	GG	INTERGENIC			
SNP_111353_A_1349	NW_004518592.1	scaffold4064	1349	CC	GG	GG	INTERGENIC			
SNP_111355_A_1498	NW_004518592.1	scaffold4064	1498	AA	GG	GG	INTERGENIC			
SNP_111356_A_1662	NW_004518592.1	scaffold4064	1662	AA	TT	TT	INTERGENIC			
SNP_111357_A_1688	NW_004518592.1	scaffold4064	1688	GG	AA	AA	INTERGENIC			
SNP_111358_A_1967	NW_004518592.1	scaffold4064	1967	CC	AA	AA	INTERGENIC			
SNP_111359_A_2014	NW_004518592.1	scaffold4064	2014	GG	TT	TT	INTERGENIC			
SNP_111360_A_2548	NW_004518592.1	scaffold4064	2548	TT	AA	AA	INTERGENIC			
SNP_111361_A_2750	NW_004518592.1	scaffold4064	2750	GG	TT	TT	INTERGENIC			
SNP_111362_A_2806	NW_004518592.1	scaffold4064	2806	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111363_A_3215	NW_004518592.1	scaffold4064	3215	TT	AA	AA	INTERGENIC			
SNP_111364_A_3255	NW_004518592.1	scaffold4064	3255	CC	TT	TT	INTERGENIC			
SNP_111365_A_3338	NW_004518592.1	scaffold4064	3338	CC	AA	AA	INTERGENIC			
SNP_111366_A_3520	NW_004518592.1	scaffold4064	3520	GG	AA	AA	INTERGENIC			
SNP_111367_A_3533	NW_004518592.1	scaffold4064	3533	TT	GG	GG	INTERGENIC			
SNP_111368_A_3562	NW_004518592.1	scaffold4064	3562	CC	TT	TT	INTERGENIC			
SNP_111369_A_3581	NW_004518592.1	scaffold4064	3581	GG	AA	AA	INTERGENIC			
SNP_111370_A_3700	NW_004518592.1	scaffold4064	3700	AA	TT	TT	INTERGENIC			
SNP_111371_A_3733	NW_004518592.1	scaffold4064	3733	CC	TT	TT	INTERGENIC			
SNP_111372_A_3841	NW_004518592.1	scaffold4064	3841	CC	TT	TT	INTERGENIC			
SNP_111373_A_3883	NW_004518592.1	scaffold4064	3883	GG	TT	TT	INTERGENIC			
SNP_111374_A_3944	NW_004518592.1	scaffold4064	3944	GG	TT	TT	INTERGENIC			
SNP_111375_A_3984	NW_004518592.1	scaffold4064	3984	CC	TT	TT	INTERGENIC			
SNP_111376_A_4025	NW_004518592.1	scaffold4064	4025	TT	CC	CC	INTERGENIC			
SNP_111377_A_4034	NW_004518592.1	scaffold4064	4034	TT	CC	CC	INTERGENIC			
SNP_111378_A_4091	NW_004518592.1	scaffold4064	4091	GG	TT	TT	INTERGENIC			
SNP_111379_A_4212	NW_004518592.1	scaffold4064	4212	AA	GG	GG	INTERGENIC			
SNP_111380_A_4307	NW_004518592.1	scaffold4064	4307	TT	CC	CC	INTERGENIC			
SNP_111381_A_4633	NW_004518592.1	scaffold4064	4633	AA	TT	TT	INTERGENIC			
SNP_111382_A_4670	NW_004518592.1	scaffold4064	4670	AA	GG	GG	INTERGENIC			
SNP_111383_A_4781	NW_004518592.1	scaffold4064	4781	AA	GG	GG	INTERGENIC			
SNP_111384_A_4791	NW_004518592.1	scaffold4064	4791	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111385_A_4816	NW_004518592.1	scaffold4064	4816	TT	AA	AA	INTERGENIC			
SNP_111386_A_5052	NW_004518592.1	scaffold4064	5052	TT	CC	CC	INTERGENIC			
SNP_111387_A_5147	NW_004518592.1	scaffold4064	5147	CC	TT	TT	INTERGENIC			
SNP_111388_A_5268	NW_004518592.1	scaffold4064	5268	TT	CC	CC	INTERGENIC			
SNP_111389_A_5331	NW_004518592.1	scaffold4064	5331	TT	CC	CC	INTERGENIC			
SNP_111391_A_5435	NW_004518592.1	scaffold4064	5435	AA	CC	CC	INTERGENIC			
SNP_111393_A_64	NW_004518605.1	scaffold4081	64	CC	TT	TT	INTERGENIC			
SNP_111394_A_84	NW_004518605.1	scaffold4081	84	TT	CC	CC	INTERGENIC			
SNP_111395_A_292	NW_004518605.1	scaffold4081	292	TT	GG	GG	INTERGENIC			
SNP_111396_A_373	NW_004518605.1	scaffold4081	373	GG	TT	TT	INTERGENIC			
SNP_111397_A_378	NW_004518605.1	scaffold4081	378	GG	AA	AA	INTERGENIC			
SNP_111398_A_505	NW_004518605.1	scaffold4081	505	TT	AA	AA	INTERGENIC			
SNP_111399_A_608	NW_004518605.1	scaffold4081	608	GG	AA	AA	INTERGENIC			
SNP_111400_A_119	NW_004518607.1	scaffold4083	119	GG	TT	TT	INTERGENIC			
SNP_111401_A_5213	NW_004518611.1	scaffold4088	5213	GG	AA	AA	INTERGENIC			
SNP_111403_A_5688	NW_004518611.1	scaffold4088	5688	CC	TT	TT	INTERGENIC			
SNP_111404_A_5741	NW_004518611.1	scaffold4088	5741	GG	TT	TT	INTERGENIC			
SNP_111405_A_5947	NW_004518611.1	scaffold4088	5947	GG	AA	AA	INTERGENIC			
SNP_111406_A_11533	NW_004518611.1	scaffold4088	11533	GG	AA	AA	INTERGENIC			
SNP_111407_A_11569	NW_004518611.1	scaffold4088	11569	TT	CC	CC	INTERGENIC			
SNP_111408_A_14801	NW_004518611.1	scaffold4088	14801	CC	TT	TT	INTERGENIC			
SNP_111409_A_14922	NW_004518611.1	scaffold4088	14922	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111410_A_14953	NW_004518611.1	scaffold4088	14953	TT	CC	CC	INTERGENIC			
SNP_111411_A_15090	NW_004518611.1	scaffold4088	15090	AA	CC	CC	INTERGENIC			
SNP_111412_A_16469	NW_004518611.1	scaffold4088	16469	TT	CC	CC	INTERGENIC			
SNP_111413_A_16482	NW_004518611.1	scaffold4088	16482	CC	GG	GG	INTERGENIC			
SNP_111414_A_17165	NW_004518611.1	scaffold4088	17165	AA	TT	TT	INTERGENIC			
SNP_111415_A_17468	NW_004518611.1	scaffold4088	17468	CC	GG	GG	INTERGENIC			
SNP_111416_A_17469	NW_004518611.1	scaffold4088	17469	CC	TT	TT	INTERGENIC			
SNP_111418_A_17564	NW_004518611.1	scaffold4088	17564	CC	TT	TT	INTERGENIC			
SNP_111419_A_17565	NW_004518611.1	scaffold4088	17565	AA	GG	GG	INTERGENIC			
SNP_111420_A_17642	NW_004518611.1	scaffold4088	17642	TT	CC	CC	INTERGENIC			
SNP_111421_A_17682	NW_004518611.1	scaffold4088	17682	CC	TT	TT	INTERGENIC			
SNP_111422_A_17814	NW_004518611.1	scaffold4088	17814	CC	TT	TT	INTERGENIC			
SNP_111423_A_17816	NW_004518611.1	scaffold4088	17816	TT	GG	GG	INTERGENIC			
SNP_111424_A_17818	NW_004518611.1	scaffold4088	17818	AA	TT	TT	INTERGENIC			
SNP_111425_A_17980	NW_004518611.1	scaffold4088	17980	AA	GG	GG	INTERGENIC			
SNP_111426_A_18198	NW_004518611.1	scaffold4088	18198	CC	TT	TT	INTERGENIC			
SNP_111427_A_19484	NW_004518612.1	scaffold4089	19484	GG	TT	TT	INTERGENIC			
SNP_111428_A_255	NW_004518620.1	scaffold4100	255	CC	AA	AA	INTERGENIC			
SNP_111429_A_499	NW_004518620.1	scaffold4100	499	TT	GG	GG	INTERGENIC			
SNP_111430_A_722	NW_004518620.1	scaffold4100	722	TT	AA	AA	INTERGENIC			
SNP_111431_A_748	NW_004518620.1	scaffold4100	748	AA	TT	TT	INTERGENIC			
SNP_111432_A_1358	NW_004518623.1	scaffold4106	1358	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111433_A_9593	NW_004518624.1	scaffold4107	9593	AA	TT	TT	INTERGENIC			
SNP_111434_A_9621	NW_004518624.1	scaffold4107	9621	AA	TT	TT	INTERGENIC			
SNP_111436_A_4968	NW_004518625.1	scaffold4108	4968	GG	AA	AA	INTERGENIC			
SNP_111437_A_5169	NW_004518625.1	scaffold4108	5169	CC	GG	GG	INTERGENIC			
SNP_111438_A_5261	NW_004518625.1	scaffold4108	5261	AA	GG	GG	INTERGENIC			
SNP_111439_A_5320	NW_004518625.1	scaffold4108	5320	GG	AA	AA	INTERGENIC			
SNP_111440_A_5465	NW_004518625.1	scaffold4108	5465	GG	AA	AA	INTERGENIC			
SNP_111441_A_6309	NW_004518625.1	scaffold4108	6309	AA	TT	TT	INTERGENIC			
SNP_111442_A_6591	NW_004518625.1	scaffold4108	6591	AA	TT	TT	INTERGENIC			
SNP_111443_A_8156	NW_004518625.1	scaffold4108	8156	TT	CC	CC	INTERGENIC			
SNP_111444_A_8226	NW_004518625.1	scaffold4108	8226	GG	CC	CC	INTERGENIC			
SNP_111445_A_8514	NW_004518625.1	scaffold4108	8514	GG	AA	AA	INTERGENIC			
SNP_111446_A_8521	NW_004518625.1	scaffold4108	8521	TT	AA	AA	INTERGENIC			
SNP_111447_A_8659	NW_004518625.1	scaffold4108	8659	TT	CC	CC	INTERGENIC			
SNP_111448_A_8728	NW_004518625.1	scaffold4108	8728	AA	TT	TT	INTERGENIC			
SNP_111450_A_9576	NW_004518625.1	scaffold4108	9576	GG	AA	AA	INTERGENIC			
SNP_111451_A_11197	NW_004518625.1	scaffold4108	11197	TT	GG	GG	INTERGENIC			
SNP_111452_A_11919	NW_004518633.1	scaffold4118	11919	AA	GG	GG	INTERGENIC			
SNP_111453_A_15390	NW_004518633.1	scaffold4118	15390	CC	GG	GG	INTERGENIC			
SNP_111454_A_15617	NW_004518633.1	scaffold4118	15617	TT	AA	AA	INTERGENIC			
SNP_111455_A_15900	NW_004518633.1	scaffold4118	15900	AA	TT	TT	INTERGENIC			
SNP_111456_A_15910	NW_004518633.1	scaffold4118	15910	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111457_A_16070	NW_004518633.1	scaffold4118	16070	GG	TT	TT	INTERGENIC			
SNP_111458_A_22091	NW_004518633.1	scaffold4118	22091	AA	GG	GG	INTERGENIC			
SNP_111459_A_22175	NW_004518633.1	scaffold4118	22175	TT	AA	AA	INTERGENIC			
SNP_111460_A_22263	NW_004518633.1	scaffold4118	22263	CC	TT	TT	INTERGENIC			
SNP_111461_A_22264	NW_004518633.1	scaffold4118	22264	AA	GG	GG	INTERGENIC			
SNP_111462_A_26645	NW_004518633.1	scaffold4118	26645	CC	AA	AA	INTERGENIC			
SNP_111463_A_430	NW_004518640.1	scaffold4127	430	GG	AA	AA	INTERGENIC			
SNP_111464_A_642	NW_004518647.1	scaffold4141	642	AA	GG	GG	INTERGENIC			
SNP_111465_A_654	NW_004518647.1	scaffold4141	654	AA	GG	GG	INTERGENIC			
SNP_111466_A_2130	NW_004518648.1	scaffold4142	2130	GG	AA	AA	INTERGENIC			
SNP_111467_A_2184	NW_004518648.1	scaffold4142	2184	AA	CC	CC	INTERGENIC			
SNP_111468_A_2240	NW_004518648.1	scaffold4142	2240	TT	AA	AA	INTERGENIC			
SNP_111469_A_2505	NW_004518648.1	scaffold4142	2505	AA	CC	CC	INTERGENIC			
SNP_111470_A_2566	NW_004518648.1	scaffold4142	2566	TT	GG	GG	INTERGENIC			
SNP_111471_A_2584	NW_004518648.1	scaffold4142	2584	TT	CC	CC	INTERGENIC			
SNP_111472_A_2785	NW_004518648.1	scaffold4142	2785	GG	AA	AA	INTERGENIC			
SNP_111473_A_2806	NW_004518648.1	scaffold4142	2806	GG	AA	AA	INTERGENIC			
SNP_111474_A_2895	NW_004518648.1	scaffold4142	2895	AA	GG	GG	INTERGENIC			
SNP_111475_A_10703	NW_004518648.1	scaffold4142	10703	CC	AA	AA	INTERGENIC			
SNP_111476_A_10708	NW_004518648.1	scaffold4142	10708	GG	AA	AA	INTERGENIC			
SNP_111477_A_12814	NW_004518648.1	scaffold4142	12814	GG	AA	AA	INTERGENIC			
SNP_111478_A_12893	NW_004518648.1	scaffold4142	12893	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111479_A_13191	NW_004518648.1	scaffold4142	13191	CC	TT	TT	INTERGENIC		
SNP_111480_A_13344	NW_004518648.1	scaffold4142	13344	CC	TT	TT	INTERGENIC		
SNP_111481_A_13767	NW_004518648.1	scaffold4142	13767	TT	CC	CC	INTERGENIC		
SNP_111482_A_11341	NW_004518652.1	scaffold4149	11341	AA	GG	GG	INTERGENIC		
SNP_111483_A_11349	NW_004518652.1	scaffold4149	11349	TT	AA	AA	INTERGENIC		
SNP_111484_A_11430	NW_004518652.1	scaffold4149	11430	GG	AA	AA	INTERGENIC		
SNP_111485_A_11638	NW_004518652.1	scaffold4149	11638	CC	TT	TT	INTERGENIC		
SNP_111486_A_11723	NW_004518652.1	scaffold4149	11723	CC	TT	TT	INTERGENIC		
SNP_111487_A_12428	NW_004518652.1	scaffold4149	12428	AA	GG	GG	INTERGENIC		
SNP_111488_A_12474	NW_004518652.1	scaffold4149	12474	GG	CC	CC	INTERGENIC		
SNP_111489_A_12507	NW_004518652.1	scaffold4149	12507	AA	GG	GG	INTERGENIC		
SNP_111490_A_12805	NW_004518652.1	scaffold4149	12805	AA	GG	GG	INTERGENIC		
SNP_111491_A_12849	NW_004518652.1	scaffold4149	12849	TT	CC	CC	INTERGENIC		
SNP_111492_A_978	NW_004518654.1	scaffold4155	978	TT	AA	AA	INTERGENIC		
SNP_111494_A_8708	NW_004518654.1	scaffold4155	8708	CC	TT	TT	NON_SYNONYMOUS_CODING	101491563	uncharacterized LOC101491563
SNP_111495_A_11394	NW_004518654.1	scaffold4155	11394	AA	CC	CC	URR	101491563	uncharacterized LOC101491563
SNP_111496_A_11575	NW_004518654.1	scaffold4155	11575	AA	CC	CC	URR	101491563	uncharacterized LOC101491563
SNP_111497_A_11576	NW_004518654.1	scaffold4155	11576	TT	CC	CC	URR	101491563	uncharacterized LOC101491563
SNP_111498_A_12060	NW_004518654.1	scaffold4155	12060	CC	GG	GG	URR	101491563	uncharacterized LOC101491563
SNP_111499_A_12194	NW_004518654.1	scaffold4155	12194	AA	CC	CC	INTERGENIC		
SNP_111500_A_12281	NW_004518654.1	scaffold4155	12281	AA	TT	TT	INTERGENIC		
SNP_111501_A_12312	NW_004518654.1	scaffold4155	12312	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111502_A_12384	NW_004518654.1	scaffold4155	12384	TT	CC	CC	INTERGENIC			
SNP_111503_A_12385	NW_004518654.1	scaffold4155	12385	AA	CC	CC	INTERGENIC			
SNP_111504_A_21890	NW_004518654.1	scaffold4155	21890	CC	TT	TT	INTERGENIC			
SNP_111505_A_21891	NW_004518654.1	scaffold4155	21891	TT	AA	AA	INTERGENIC			
SNP_111506_A_21911	NW_004518654.1	scaffold4155	21911	TT	GG	GG	INTERGENIC			
SNP_111507_A_21919	NW_004518654.1	scaffold4155	21919	GG	AA	AA	INTERGENIC			
SNP_111508_A_1288	NW_004518655.1	scaffold4156	1288	GG	TT	TT	INTERGENIC			
SNP_111509_A_1425	NW_004518655.1	scaffold4156	1425	AA	GG	GG	INTERGENIC			
SNP_111511_A_8294	NW_004518656.1	scaffold4157	8294	TT	AA	AA	INTERGENIC			
SNP_111512_A_8398	NW_004518656.1	scaffold4157	8398	CC	AA	AA	INTERGENIC			
SNP_111513_A_8427	NW_004518656.1	scaffold4157	8427	CC	GG	GG	INTERGENIC			
SNP_111514_A_8624	NW_004518656.1	scaffold4157	8624	CC	TT	TT	INTERGENIC			
SNP_111515_A_8810	NW_004518656.1	scaffold4157	8810	CC	TT	TT	INTERGENIC			
SNP_111516_A_8839	NW_004518656.1	scaffold4157	8839	TT	GG	GG	INTERGENIC			
SNP_111517_A_8866	NW_004518656.1	scaffold4157	8866	GG	AA	AA	INTERGENIC			
SNP_111518_A_10215	NW_004518656.1	scaffold4157	10215	AA	GG	GG	INTERGENIC			
SNP_111519_A_10487	NW_004518656.1	scaffold4157	10487	AA	TT	TT	INTERGENIC			
SNP_111520_A_11816	NW_004518656.1	scaffold4157	11816	GG	TT	TT	INTERGENIC			
SNP_111521_A_754	NW_004518657.1	scaffold4158	754	AA	TT	TT	INTERGENIC			
SNP_111522_A_975	NW_004518657.1	scaffold4158	975	TT	AA	AA	INTERGENIC			
SNP_111523_A_1690	NW_004518665.1	scaffold4167	1690	GG	AA	AA	INTERGENIC			
SNP_111524_A_3767	NW_004518665.1	scaffold4167	3767	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111525_A_4033	NW_004518665.1	scaffold4167	4033	AA	GG	GG	INTERGENIC			
SNP_111526_A_4069	NW_004518665.1	scaffold4167	4069	AA	GG	GG	INTERGENIC			
SNP_111527_A_4109	NW_004518665.1	scaffold4167	4109	TT	CC	CC	INTERGENIC			
SNP_111528_A_4112	NW_004518665.1	scaffold4167	4112	AA	CC	CC	INTERGENIC			
SNP_111529_A_4133	NW_004518665.1	scaffold4167	4133	TT	CC	CC	INTERGENIC			
SNP_111530_A_4152	NW_004518665.1	scaffold4167	4152	CC	TT	TT	INTERGENIC			
SNP_111531_A_4221	NW_004518665.1	scaffold4167	4221	TT	AA	AA	INTERGENIC			
SNP_111532_A_4246	NW_004518665.1	scaffold4167	4246	TT	GG	GG	INTERGENIC			
SNP_111533_A_11259	NW_004518665.1	scaffold4167	11259	AA	GG	GG	INTERGENIC			
SNP_111534_A_20723	NW_004518665.1	scaffold4167	20723	AA	GG	GG	INTERGENIC			
SNP_111535_A_30951	NW_004518665.1	scaffold4167	30951	CC	TT	TT	INTERGENIC			
SNP_111536_A_30952	NW_004518665.1	scaffold4167	30952	AA	GG	GG	INTERGENIC			
SNP_111537_A_33066	NW_004518665.1	scaffold4167	33066	TT	GG	GG	INTERGENIC			
SNP_111538_A_33399	NW_004518665.1	scaffold4167	33399	TT	GG	GG	INTERGENIC			
SNP_111539_A_33511	NW_004518665.1	scaffold4167	33511	TT	CC	CC	INTERGENIC			
SNP_111540_A_33547	NW_004518665.1	scaffold4167	33547	AA	GG	GG	INTERGENIC			
SNP_111541_A_33557	NW_004518665.1	scaffold4167	33557	GG	TT	TT	INTERGENIC			
SNP_111542_A_33628	NW_004518665.1	scaffold4167	33628	CC	TT	TT	INTERGENIC			
SNP_111544_A_585	NW_004518669.1	scaffold4171	585	AA	GG	GG	INTERGENIC			
SNP_111545_A_651	NW_004518669.1	scaffold4171	651	TT	CC	CC	INTERGENIC			
SNP_111547_A_1015	NW_004518669.1	scaffold4171	1015	AA	GG	GG	INTERGENIC			
SNP_111548_A_692	NW_004518672.1	scaffold4176	692	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111549_A_718	NW_004518672.1	scaffold4176	718	AA	GG	GG	INTERGENIC			
SNP_111550_A_1014	NW_004518672.1	scaffold4176	1014	TT	CC	CC	INTERGENIC			
SNP_111551_A_1051	NW_004518672.1	scaffold4176	1051	GG	AA	AA	INTERGENIC			
SNP_111552_A_4062	NW_004518672.1	scaffold4176	4062	AA	GG	GG	INTERGENIC			
SNP_111553_A_4148	NW_004518672.1	scaffold4176	4148	AA	TT	TT	INTERGENIC			
SNP_111554_A_4195	NW_004518672.1	scaffold4176	4195	AA	TT	TT	INTERGENIC			
SNP_111555_A_4360	NW_004518672.1	scaffold4176	4360	GG	AA	AA	INTERGENIC			
SNP_111556_A_4382	NW_004518672.1	scaffold4176	4382	CC	GG	GG	INTERGENIC			
SNP_111557_A_4383	NW_004518672.1	scaffold4176	4383	GG	AA	AA	INTERGENIC			
SNP_111558_A_4448	NW_004518672.1	scaffold4176	4448	AA	TT	TT	INTERGENIC			
SNP_111559_A_4688	NW_004518672.1	scaffold4176	4688	TT	CC	CC	INTERGENIC			
SNP_111560_A_4735	NW_004518672.1	scaffold4176	4735	AA	CC	CC	INTERGENIC			
SNP_111561_A_6555	NW_004518672.1	scaffold4176	6555	AA	GG	GG	INTERGENIC			
SNP_111562_A_6740	NW_004518672.1	scaffold4176	6740	CC	TT	TT	INTERGENIC			
SNP_111563_A_6780	NW_004518672.1	scaffold4176	6780	AA	TT	TT	INTERGENIC			
SNP_111564_A_7671	NW_004518672.1	scaffold4176	7671	AA	GG	GG	INTERGENIC			
SNP_111565_A_7775	NW_004518672.1	scaffold4176	7775	GG	AA	AA	INTERGENIC			
SNP_111566_A_7810	NW_004518672.1	scaffold4176	7810	GG	AA	AA	INTERGENIC			
SNP_111567_A_7882	NW_004518672.1	scaffold4176	7882	CC	TT	TT	INTERGENIC			
SNP_111568_A_7903	NW_004518672.1	scaffold4176	7903	CC	TT	TT	INTERGENIC			
SNP_111569_A_7928	NW_004518672.1	scaffold4176	7928	CC	AA	AA	INTERGENIC			
SNP_111570_A_7987	NW_004518672.1	scaffold4176	7987	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111571_A_8005	NW_004518672.1	scaffold4176	8005	AA	GG	GG	INTERGENIC			
SNP_111572_A_8045	NW_004518672.1	scaffold4176	8045	AA	CC	CC	INTERGENIC			
SNP_111573_A_10828	NW_004518672.1	scaffold4176	10828	AA	CC	CC	INTERGENIC			
SNP_111574_A_17278	NW_004518672.1	scaffold4176	17278	AA	TT	TT	INTERGENIC			
SNP_111575_A_17516	NW_004518672.1	scaffold4176	17516	TT	CC	CC	INTERGENIC			
SNP_111576_A_19328	NW_004518672.1	scaffold4176	19328	CC	TT	TT	INTERGENIC			
SNP_111577_A_19613	NW_004518672.1	scaffold4176	19613	TT	AA	AA	INTERGENIC			
SNP_111578_A_997	NW_004518673.1	scaffold4178	997	AA	GG	GG	INTERGENIC			
SNP_111579_A_1008	NW_004518673.1	scaffold4178	1008	AA	GG	GG	INTERGENIC			
SNP_111580_A_7316	NW_004518676.1	scaffold4182	7316	TT	GG	GG	INTERGENIC			
SNP_111581_A_7546	NW_004518676.1	scaffold4182	7546	CC	GG	GG	INTERGENIC			
SNP_111582_A_7889	NW_004518676.1	scaffold4182	7889	TT	CC	CC	INTERGENIC			
SNP_111583_A_7913	NW_004518676.1	scaffold4182	7913	AA	GG	GG	INTERGENIC			
SNP_111584_A_7939	NW_004518676.1	scaffold4182	7939	TT	CC	CC	INTERGENIC			
SNP_111585_A_7945	NW_004518676.1	scaffold4182	7945	AA	GG	GG	INTERGENIC			
SNP_111586_A_8395	NW_004518676.1	scaffold4182	8395	TT	AA	AA	INTERGENIC			
SNP_111587_A_9104	NW_004518676.1	scaffold4182	9104	GG	TT	TT	INTERGENIC			
SNP_111588_A_9108	NW_004518676.1	scaffold4182	9108	TT	CC	CC	INTERGENIC			
SNP_111589_A_9118	NW_004518676.1	scaffold4182	9118	AA	GG	GG	INTERGENIC			
SNP_111590_A_9194	NW_004518676.1	scaffold4182	9194	CC	TT	TT	INTERGENIC			
SNP_111591_A_22067	NW_004518681.1	scaffold4189	22067	GG	AA	AA	INTERGENIC			
SNP_111592_A_22091	NW_004518681.1	scaffold4189	22091	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111593_A_22154	NW_004518681.1	scaffold4189	22154	TT	CC	CC	INTERGENIC			
SNP_111594_A_22155	NW_004518681.1	scaffold4189	22155	CC	TT	TT	INTERGENIC			
SNP_111595_A_22173	NW_004518681.1	scaffold4189	22173	GG	AA	AA	INTERGENIC			
SNP_111596_A_22179	NW_004518681.1	scaffold4189	22179	GG	TT	TT	INTERGENIC			
SNP_111597_A_22260	NW_004518681.1	scaffold4189	22260	CC	TT	TT	INTERGENIC			
SNP_111598_A_22466	NW_004518681.1	scaffold4189	22466	GG	CC	CC	INTERGENIC			
SNP_111599_A_2843	NW_004518683.1	scaffold4192	2843	CC	AA	AA	INTERGENIC			
SNP_111600_A_3116	NW_004518683.1	scaffold4192	3116	CC	TT	TT	INTERGENIC			
SNP_111601_A_3189	NW_004518683.1	scaffold4192	3189	AA	GG	GG	INTERGENIC			
SNP_111602_A_3221	NW_004518683.1	scaffold4192	3221	AA	GG	GG	INTERGENIC			
SNP_111604_A_3452	NW_004518683.1	scaffold4192	3452	AA	GG	GG	INTERGENIC			
SNP_111605_A_3526	NW_004518683.1	scaffold4192	3526	AA	CC	CC	INTERGENIC			
SNP_111606_A_3607	NW_004518683.1	scaffold4192	3607	TT	GG	GG	INTERGENIC			
SNP_111607_A_3608	NW_004518683.1	scaffold4192	3608	GG	AA	AA	INTERGENIC			
SNP_111608_A_3615	NW_004518683.1	scaffold4192	3615	AA	GG	GG	INTERGENIC			
SNP_111609_A_3649	NW_004518683.1	scaffold4192	3649	GG	AA	AA	INTERGENIC			
SNP_111611_A_3821	NW_004518683.1	scaffold4192	3821	AA	CC	CC	INTERGENIC			
SNP_111612_A_4001	NW_004518683.1	scaffold4192	4001	AA	CC	CC	INTERGENIC			
SNP_111613_A_4019	NW_004518683.1	scaffold4192	4019	GG	TT	TT	INTERGENIC			
SNP_111614_A_4029	NW_004518683.1	scaffold4192	4029	GG	TT	TT	INTERGENIC			
SNP_111615_A_4054	NW_004518683.1	scaffold4192	4054	AA	TT	TT	INTERGENIC			
SNP_111616_A_4075	NW_004518683.1	scaffold4192	4075	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111617_A_4098	NW_004518683.1	scaffold4192	4098	CC	AA	AA	INTERGENIC			
SNP_111618_A_4283	NW_004518683.1	scaffold4192	4283	TT	GG	GG	INTERGENIC			
SNP_111619_A_4340	NW_004518683.1	scaffold4192	4340	GG	AA	AA	INTERGENIC			
SNP_111620_A_4360	NW_004518683.1	scaffold4192	4360	AA	GG	GG	INTERGENIC			
SNP_111621_A_4365	NW_004518683.1	scaffold4192	4365	CC	TT	TT	INTERGENIC			
SNP_111622_A_4406	NW_004518683.1	scaffold4192	4406	CC	TT	TT	INTERGENIC			
SNP_111623_A_4500	NW_004518683.1	scaffold4192	4500	AA	GG	GG	INTERGENIC			
SNP_111624_A_4550	NW_004518683.1	scaffold4192	4550	GG	AA	AA	INTERGENIC			
SNP_111625_A_4836	NW_004518683.1	scaffold4192	4836	AA	TT	TT	INTERGENIC			
SNP_111626_A_4848	NW_004518683.1	scaffold4192	4848	CC	TT	TT	INTERGENIC			
SNP_111627_A_4864	NW_004518683.1	scaffold4192	4864	TT	CC	CC	INTERGENIC			
SNP_111628_A_9087	NW_004518687.1	scaffold4197	9087	TT	CC	CC	INTERGENIC			
SNP_111630_A_16414	NW_004518687.1	scaffold4197	16414	GG	TT	TT	INTERGENIC			
SNP_111631_A_16416	NW_004518687.1	scaffold4197	16416	TT	GG	GG	INTERGENIC			
SNP_111632_A_16488	NW_004518687.1	scaffold4197	16488	TT	CC	CC	INTERGENIC			
SNP_111633_A_22400	NW_004518687.1	scaffold4197	22400	TT	CC	CC	INTERGENIC			
SNP_111634_A_22406	NW_004518687.1	scaffold4197	22406	AA	CC	CC	INTERGENIC			
SNP_111635_A_22430	NW_004518687.1	scaffold4197	22430	TT	CC	CC	INTERGENIC			
SNP_111636_A_35479	NW_004518687.1	scaffold4197	35479	CC	GG	GG	INTERGENIC			
SNP_111637_A_37054	NW_004518687.1	scaffold4197	37054	CC	GG	GG	INTERGENIC			
SNP_111638_A_37177	NW_004518687.1	scaffold4197	37177	GG	TT	TT	INTERGENIC			
SNP_111641_A_70416	NW_004518687.1	scaffold4197	70416	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111642_A_79231	NW_004518687.1	scaffold4197	79231	AA	GG	GG	INTERGENIC		
SNP_111644_A_82131	NW_004518687.1	scaffold4197	82131	AA	TT	TT	INTERGENIC		
SNP_111645_A_181	NW_004518695.1	scaffold4210	181	AA	CC	CC	INTERGENIC		
SNP_111646_A_182	NW_004518695.1	scaffold4210	182	AA	TT	TT	INTERGENIC		
SNP_111647_A_297	NW_004518695.1	scaffold4210	297	AA	CC	CC	INTERGENIC		
SNP_111648_A_9072	NW_004518696.1	scaffold4211	9072	GG	AA	AA	URR	101493202	uncharacterized LOC101493202
SNP_111649_A_9176	NW_004518696.1	scaffold4211	9176	TT	CC	CC	URR	101493202	uncharacterized LOC101493202
SNP_111650_A_9268	NW_004518696.1	scaffold4211	9268	CC	TT	TT	URR	101493202	uncharacterized LOC101493202
SNP_111652_A_627	NW_004518697.1	scaffold4212	627	CC	GG	GG	INTERGENIC		
SNP_111654_A_2437	NW_004518698.1	scaffold4213	2437	CC	TT	TT	INTERGENIC		
SNP_111655_A_2473	NW_004518698.1	scaffold4213	2473	CC	GG	GG	INTERGENIC		
SNP_111656_A_2776	NW_004518698.1	scaffold4213	2776	AA	GG	GG	INTERGENIC		
SNP_111657_A_2836	NW_004518698.1	scaffold4213	2836	CC	AA	AA	INTERGENIC		
SNP_111658_A_5495	NW_004518701.1	scaffold4219	5495	GG	AA	AA	INTERGENIC		
SNP_111659_A_5507	NW_004518701.1	scaffold4219	5507	CC	TT	TT	INTERGENIC		
SNP_111660_A_5515	NW_004518701.1	scaffold4219	5515	AA	GG	GG	INTERGENIC		
SNP_111661_A_70	NW_004518702.1	scaffold4220	70	TT	CC	CC	INTERGENIC		
SNP_111662_A_1125	NW_004518702.1	scaffold4220	1125	GG	TT	TT	INTERGENIC		
SNP_111663_A_64	NW_004518703.1	scaffold4221	64	CC	TT	TT	INTERGENIC		
SNP_111664_A_74	NW_004518703.1	scaffold4221	74	AA	CC	CC	INTERGENIC		
SNP_111665_A_76	NW_004518703.1	scaffold4221	76	TT	CC	CC	INTERGENIC		
SNP_111666_A_105	NW_004518703.1	scaffold4221	105	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111667_A_111	NW_004518703.1	scaffold4221	111	AA	GG	GG	INTERGENIC			
SNP_111668_A_116	NW_004518703.1	scaffold4221	116	CC	TT	TT	INTERGENIC			
SNP_111669_A_173	NW_004518703.1	scaffold4221	173	CC	TT	TT	INTERGENIC			
SNP_111670_A_211	NW_004518703.1	scaffold4221	211	GG	AA	AA	INTERGENIC			
SNP_111671_A_282	NW_004518703.1	scaffold4221	282	TT	CC	CC	INTERGENIC			
SNP_111672_A_304	NW_004518703.1	scaffold4221	304	TT	GG	GG	INTERGENIC			
SNP_111673_A_323	NW_004518703.1	scaffold4221	323	GG	TT	TT	INTERGENIC			
SNP_111674_A_345	NW_004518703.1	scaffold4221	345	TT	AA	AA	INTERGENIC			
SNP_111675_A_369	NW_004518703.1	scaffold4221	369	GG	AA	AA	INTERGENIC			
SNP_111676_A_371	NW_004518703.1	scaffold4221	371	GG	TT	TT	INTERGENIC			
SNP_111678_A_530	NW_004518703.1	scaffold4221	530	GG	TT	TT	INTERGENIC			
SNP_111679_A_540	NW_004518703.1	scaffold4221	540	CC	GG	GG	INTERGENIC			
SNP_111681_A_622	NW_004518703.1	scaffold4221	622	CC	TT	TT	INTERGENIC			
SNP_111682_A_644	NW_004518703.1	scaffold4221	644	AA	GG	GG	INTERGENIC			
SNP_111683_A_669	NW_004518703.1	scaffold4221	669	TT	GG	GG	INTERGENIC			
SNP_111685_A_712	NW_004518703.1	scaffold4221	712	TT	GG	GG	INTERGENIC			
SNP_111686_A_748	NW_004518703.1	scaffold4221	748	TT	CC	CC	INTERGENIC			
SNP_111687_A_794	NW_004518703.1	scaffold4221	794	CC	TT	TT	INTERGENIC			
SNP_111688_A_857	NW_004518703.1	scaffold4221	857	AA	TT	TT	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like	
SNP_111689_A_870	NW_004518703.1	scaffold4221	870	GG	TT	TT	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like	
SNP_111690_A_994	NW_004518703.1	scaffold4221	994	TT	CC	CC	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like	
SNP_111691_A_1002	NW_004518703.1	scaffold4221	1002	AA	CC	CC	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111692_A_1026	NW_004518703.1	scaffold4221	1026	CC	AA	AA	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like
SNP_111693_A_1054	NW_004518703.1	scaffold4221	1054	AA	GG	GG	DRR	101493518	L-type lectin-domain containing receptor kinase IX.1-like
SNP_111695_A_2024	NW_004518703.1	scaffold4221	2024	AA	GG	GG	NON_SYNONYMOUS_CODING	101493518	L-type lectin-domain containing receptor kinase IX.1-like
SNP_111696_A_2053	NW_004518703.1	scaffold4221	2053	AA	GG	GG	SYNONYMOUS_CODING	101493518	L-type lectin-domain containing receptor kinase IX.1-like
SNP_111698_A_7774	NW_004518703.1	scaffold4221	7774	AA	GG	GG	INTERGENIC		
SNP_111699_A_7845	NW_004518703.1	scaffold4221	7845	AA	GG	GG	INTERGENIC		
SNP_111700_A_8768	NW_004518703.1	scaffold4221	8768	GG	AA	AA	INTERGENIC		
SNP_111701_A_14246	NW_004518703.1	scaffold4221	14246	GG	AA	AA	INTERGENIC		
SNP_111702_A_27458	NW_004518703.1	scaffold4221	27458	CC	TT	TT	INTERGENIC		
SNP_111703_A_40684	NW_004518703.1	scaffold4221	40684	AA	CC	CC	INTERGENIC		
SNP_111704_A_40926	NW_004518703.1	scaffold4221	40926	GG	AA	AA	INTERGENIC		
SNP_111705_A_40948	NW_004518703.1	scaffold4221	40948	AA	GG	GG	INTERGENIC		
SNP_111706_A_40961	NW_004518703.1	scaffold4221	40961	GG	CC	CC	INTERGENIC		
SNP_111707_A_40966	NW_004518703.1	scaffold4221	40966	CC	TT	TT	INTERGENIC		
SNP_111708_A_40996	NW_004518703.1	scaffold4221	40996	AA	GG	GG	INTERGENIC		
SNP_111709_A_41019	NW_004518703.1	scaffold4221	41019	AA	GG	GG	INTERGENIC		
SNP_111710_A_41198	NW_004518703.1	scaffold4221	41198	GG	TT	TT	INTERGENIC		
SNP_111711_A_41214	NW_004518703.1	scaffold4221	41214	CC	GG	GG	INTERGENIC		
SNP_111712_A_41459	NW_004518703.1	scaffold4221	41459	TT	CC	CC	INTERGENIC		
SNP_111713_A_41501	NW_004518703.1	scaffold4221	41501	CC	AA	AA	INTERGENIC		
SNP_111714_A_41502	NW_004518703.1	scaffold4221	41502	AA	CC	CC	INTERGENIC		
SNP_111715_A_41513	NW_004518703.1	scaffold4221	41513	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111716_A_41521	NW_004518703.1	scaffold4221	41521	AA	CC	CC	INTERGENIC			
SNP_111717_A_41722	NW_004518703.1	scaffold4221	41722	TT	CC	CC	INTERGENIC			
SNP_111718_A_42094	NW_004518703.1	scaffold4221	42094	TT	CC	CC	INTERGENIC			
SNP_111719_A_42540	NW_004518703.1	scaffold4221	42540	CC	AA	AA	INTERGENIC			
SNP_111720_A_48094	NW_004518703.1	scaffold4221	48094	CC	TT	TT	INTERGENIC			
SNP_111721_A_48114	NW_004518703.1	scaffold4221	48114	CC	TT	TT	INTERGENIC			
SNP_111722_A_48187	NW_004518703.1	scaffold4221	48187	TT	GG	GG	INTERGENIC			
SNP_111723_A_48196	NW_004518703.1	scaffold4221	48196	CC	TT	TT	INTERGENIC			
SNP_111724_A_48199	NW_004518703.1	scaffold4221	48199	TT	CC	CC	INTERGENIC			
SNP_111725_A_48354	NW_004518703.1	scaffold4221	48354	TT	GG	GG	INTERGENIC			
SNP_111726_A_48413	NW_004518703.1	scaffold4221	48413	TT	CC	CC	INTERGENIC			
SNP_111727_A_48439	NW_004518703.1	scaffold4221	48439	GG	AA	AA	INTERGENIC			
SNP_111728_A_48470	NW_004518703.1	scaffold4221	48470	AA	GG	GG	INTERGENIC			
SNP_111729_A_48473	NW_004518703.1	scaffold4221	48473	TT	CC	CC	INTERGENIC			
SNP_111730_A_48560	NW_004518703.1	scaffold4221	48560	AA	GG	GG	INTERGENIC			
SNP_111731_A_52884	NW_004518703.1	scaffold4221	52884	AA	TT	TT	INTERGENIC			
SNP_111732_A_52885	NW_004518703.1	scaffold4221	52885	TT	CC	CC	INTERGENIC			
SNP_111733_A_53317	NW_004518703.1	scaffold4221	53317	CC	AA	AA	INTERGENIC			
SNP_111734_A_53474	NW_004518703.1	scaffold4221	53474	AA	GG	GG	INTERGENIC			
SNP_111735_A_53780	NW_004518703.1	scaffold4221	53780	CC	GG	GG	INTERGENIC			
SNP_111736_A_53861	NW_004518703.1	scaffold4221	53861	GG	TT	TT	INTERGENIC			
SNP_111737_A_53868	NW_004518703.1	scaffold4221	53868	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111738_A_54164	NW_004518703.1	scaffold4221	54164	CC	TT	TT	INTERGENIC			
SNP_111739_A_54387	NW_004518703.1	scaffold4221	54387	TT	CC	CC	INTERGENIC			
SNP_111741_A_54499	NW_004518703.1	scaffold4221	54499	AA	GG	GG	INTERGENIC			
SNP_111743_A_54867	NW_004518703.1	scaffold4221	54867	TT	CC	CC	INTERGENIC			
SNP_111744_A_54899	NW_004518703.1	scaffold4221	54899	CC	AA	AA	INTERGENIC			
SNP_111745_A_54900	NW_004518703.1	scaffold4221	54900	AA	TT	TT	INTERGENIC			
SNP_111746_A_55361	NW_004518703.1	scaffold4221	55361	TT	GG	GG	INTERGENIC			
SNP_111747_A_14235	NW_004518706.1	scaffold4225	14235	CC	TT	TT	INTERGENIC			
SNP_111748_A_14346	NW_004518706.1	scaffold4225	14346	AA	TT	TT	INTERGENIC			
SNP_111749_A_14740	NW_004518706.1	scaffold4225	14740	AA	CC	CC	INTERGENIC			
SNP_111750_A_8075	NW_004518713.1	scaffold4236	8075	CC	AA	AA	INTERGENIC			
SNP_111751_A_8104	NW_004518713.1	scaffold4236	8104	TT	CC	CC	INTERGENIC			
SNP_111752_A_8182	NW_004518713.1	scaffold4236	8182	GG	AA	AA	INTERGENIC			
SNP_111753_A_8195	NW_004518713.1	scaffold4236	8195	TT	CC	CC	INTERGENIC			
SNP_111754_A_8235	NW_004518713.1	scaffold4236	8235	TT	CC	CC	INTERGENIC			
SNP_111755_A_8259	NW_004518713.1	scaffold4236	8259	AA	TT	TT	INTERGENIC			
SNP_111756_A_8392	NW_004518713.1	scaffold4236	8392	TT	CC	CC	INTERGENIC			
SNP_111757_A_8421	NW_004518713.1	scaffold4236	8421	GG	CC	CC	INTERGENIC			
SNP_111758_A_8443	NW_004518713.1	scaffold4236	8443	GG	CC	CC	INTERGENIC			
SNP_111759_A_8485	NW_004518713.1	scaffold4236	8485	CC	TT	TT	INTERGENIC			
SNP_111760_A_8519	NW_004518713.1	scaffold4236	8519	TT	CC	CC	INTERGENIC			
SNP_111761_A_8782	NW_004518713.1	scaffold4236	8782	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111762_A_1613	NW_004518717.1	scaffold4241	1613	TT	GG	GG	INTERGENIC			
SNP_111763_A_1640	NW_004518717.1	scaffold4241	1640	GG	CC	CC	INTERGENIC			
SNP_111764_A_1672	NW_004518717.1	scaffold4241	1672	GG	TT	TT	INTERGENIC			
SNP_111765_A_817	NW_004518718.1	scaffold4243	817	AA	TT	TT	INTERGENIC			
SNP_111766_A_912	NW_004518718.1	scaffold4243	912	GG	AA	AA	INTERGENIC			
SNP_111768_A_1341	NW_004518718.1	scaffold4243	1341	TT	AA	AA	INTERGENIC			
SNP_111769_A_1550	NW_004518718.1	scaffold4243	1550	TT	CC	CC	INTERGENIC			
SNP_111770_A_4777	NW_004518718.1	scaffold4243	4777	CC	TT	TT	INTERGENIC			
SNP_111771_A_5412	NW_004518718.1	scaffold4243	5412	AA	TT	TT	INTERGENIC			
SNP_111772_A_5805	NW_004518718.1	scaffold4243	5805	TT	AA	AA	INTERGENIC			
SNP_111773_A_7278	NW_004518718.1	scaffold4243	7278	GG	TT	TT	INTERGENIC			
SNP_111774_A_7290	NW_004518718.1	scaffold4243	7290	TT	AA	AA	INTERGENIC			
SNP_111775_A_7303	NW_004518718.1	scaffold4243	7303	CC	TT	TT	INTERGENIC			
SNP_111776_A_7467	NW_004518718.1	scaffold4243	7467	CC	TT	TT	INTERGENIC			
SNP_111777_A_7548	NW_004518718.1	scaffold4243	7548	TT	CC	CC	INTERGENIC			
SNP_111778_A_7552	NW_004518718.1	scaffold4243	7552	GG	AA	AA	INTERGENIC			
SNP_111779_A_7606	NW_004518718.1	scaffold4243	7606	GG	AA	AA	INTERGENIC			
SNP_111780_A_14533	NW_004518718.1	scaffold4243	14533	AA	TT	TT	INTERGENIC			
SNP_111781_A_14559	NW_004518718.1	scaffold4243	14559	TT	CC	CC	INTERGENIC			
SNP_111782_A_14585	NW_004518718.1	scaffold4243	14585	AA	CC	CC	INTERGENIC			
SNP_111783_A_14633	NW_004518718.1	scaffold4243	14633	TT	CC	CC	INTERGENIC			
SNP_111785_A_14926	NW_004518718.1	scaffold4243	14926	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111786_A_14937	NW_004518718.1	scaffold4243	14937	CC	TT	TT	INTERGENIC			
SNP_111787_A_16090	NW_004518718.1	scaffold4243	16090	GG	AA	AA	INTERGENIC			
SNP_111788_A_16745	NW_004518718.1	scaffold4243	16745	AA	GG	GG	INTERGENIC			
SNP_111790_A_17295	NW_004518718.1	scaffold4243	17295	AA	CC	CC	INTERGENIC			
SNP_111791_A_17724	NW_004518718.1	scaffold4243	17724	CC	TT	TT	INTERGENIC			
SNP_111792_A_17831	NW_004518718.1	scaffold4243	17831	TT	CC	CC	INTERGENIC			
SNP_111793_A_17840	NW_004518718.1	scaffold4243	17840	CC	TT	TT	INTERGENIC			
SNP_111794_A_23426	NW_004518718.1	scaffold4243	23426	CC	TT	TT	INTERGENIC			
SNP_111795_A_23439	NW_004518718.1	scaffold4243	23439	GG	AA	AA	INTERGENIC			
SNP_111796_A_23450	NW_004518718.1	scaffold4243	23450	CC	TT	TT	INTERGENIC			
SNP_111797_A_23465	NW_004518718.1	scaffold4243	23465	AA	GG	GG	INTERGENIC			
SNP_111798_A_23523	NW_004518718.1	scaffold4243	23523	TT	CC	CC	INTERGENIC			
SNP_111799_A_23671	NW_004518718.1	scaffold4243	23671	GG	TT	TT	INTERGENIC			
SNP_111800_A_23693	NW_004518718.1	scaffold4243	23693	AA	CC	CC	INTERGENIC			
SNP_111801_A_23742	NW_004518718.1	scaffold4243	23742	TT	CC	CC	INTERGENIC			
SNP_111802_A_23752	NW_004518718.1	scaffold4243	23752	CC	TT	TT	INTERGENIC			
SNP_111803_A_26781	NW_004518718.1	scaffold4243	26781	GG	TT	TT	INTERGENIC			
SNP_111804_A_508	NW_004518719.1	scaffold4244	508	AA	CC	CC	INTERGENIC			
SNP_111806_A_333	NW_004518721.1	scaffold4247	333	TT	CC	CC	INTERGENIC			
SNP_111807_A_360	NW_004518721.1	scaffold4247	360	AA	GG	GG	INTERGENIC			
SNP_111808_A_454	NW_004518721.1	scaffold4247	454	GG	AA	AA	INTERGENIC			
SNP_111809_A_614	NW_004518721.1	scaffold4247	614	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111810_A_671	NW_004518721.1	scaffold4247	671	GG	AA	AA	INTERGENIC			
SNP_111811_A_932	NW_004518721.1	scaffold4247	932	CC	TT	TT	INTERGENIC			
SNP_111812_A_970	NW_004518721.1	scaffold4247	970	GG	TT	TT	INTERGENIC			
SNP_111813_A_1329	NW_004518721.1	scaffold4247	1329	CC	GG	GG	INTERGENIC			
SNP_111814_A_1361	NW_004518721.1	scaffold4247	1361	CC	AA	AA	INTERGENIC			
SNP_111815_A_1379	NW_004518721.1	scaffold4247	1379	AA	GG	GG	INTERGENIC			
SNP_111816_A_1443	NW_004518721.1	scaffold4247	1443	TT	AA	AA	INTERGENIC			
SNP_111817_A_1025	NW_004518722.1	scaffold4248	1025	TT	CC	CC	INTERGENIC			
SNP_111818_A_1448	NW_004518723.1	scaffold4250	1448	TT	AA	AA	INTERGENIC			
SNP_111819_A_445	NW_004518724.1	scaffold4251	445	CC	AA	AA	INTERGENIC			
SNP_111820_A_494	NW_004518724.1	scaffold4251	494	AA	GG	GG	INTERGENIC			
SNP_111821_A_424	NW_004518726.1	scaffold4254	424	TT	CC	CC	INTERGENIC			
SNP_111822_A_428	NW_004518726.1	scaffold4254	428	CC	TT	TT	INTERGENIC			
SNP_111823_A_3633	NW_004518727.1	scaffold4255	3633	AA	GG	GG	INTERGENIC			
SNP_111824_A_3634	NW_004518727.1	scaffold4255	3634	CC	TT	TT	INTERGENIC			
SNP_111825_A_3783	NW_004518727.1	scaffold4255	3783	AA	CC	CC	INTERGENIC			
SNP_111826_A_3794	NW_004518727.1	scaffold4255	3794	CC	TT	TT	INTERGENIC			
SNP_111827_A_4022	NW_004518727.1	scaffold4255	4022	TT	GG	GG	INTERGENIC			
SNP_111828_A_4287	NW_004518727.1	scaffold4255	4287	GG	TT	TT	INTERGENIC			
SNP_111829_A_4643	NW_004518727.1	scaffold4255	4643	TT	AA	AA	INTERGENIC			
SNP_111830_A_4793	NW_004518727.1	scaffold4255	4793	CC	TT	TT	INTERGENIC			
SNP_111831_A_4864	NW_004518727.1	scaffold4255	4864	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111832_A_5137	NW_004518727.1	scaffold4255	5137	CC	AA	AA	INTERGENIC			
SNP_111833_A_5202	NW_004518727.1	scaffold4255	5202	CC	AA	AA	INTERGENIC			
SNP_111834_A_5588	NW_004518727.1	scaffold4255	5588	TT	CC	CC	INTERGENIC			
SNP_111836_A_3393	NW_004518728.1	scaffold4256	3393	AA	CC	CC	INTERGENIC			
SNP_111837_A_4522	NW_004518729.1	scaffold4257	4522	CC	TT	TT	INTERGENIC			
SNP_111838_A_4816	NW_004518729.1	scaffold4257	4816	AA	GG	GG	INTERGENIC			
SNP_111839_A_719	NW_004518730.1	scaffold4259	719	TT	CC	CC	INTERGENIC			
SNP_111840_A_769	NW_004518730.1	scaffold4259	769	TT	AA	AA	INTERGENIC			
SNP_111841_A_7077	NW_004518731.1	scaffold4260	7077	GG	TT	TT	INTERGENIC			
SNP_111842_A_7100	NW_004518731.1	scaffold4260	7100	TT	AA	AA	INTERGENIC			
SNP_111843_A_7101	NW_004518731.1	scaffold4260	7101	AA	TT	TT	INTERGENIC			
SNP_111844_A_7561	NW_004518731.1	scaffold4260	7561	TT	AA	AA	INTERGENIC			
SNP_111845_A_7562	NW_004518731.1	scaffold4260	7562	CC	AA	AA	INTERGENIC			
SNP_111846_A_10230	NW_004518731.1	scaffold4260	10230	GG	AA	AA	INTERGENIC			
SNP_111847_A_10255	NW_004518731.1	scaffold4260	10255	TT	AA	AA	INTERGENIC			
SNP_111848_A_10363	NW_004518731.1	scaffold4260	10363	TT	CC	CC	INTERGENIC			
SNP_111849_A_10379	NW_004518731.1	scaffold4260	10379	TT	AA	AA	INTERGENIC			
SNP_111850_A_10405	NW_004518731.1	scaffold4260	10405	CC	AA	AA	INTERGENIC			
SNP_111851_A_11799	NW_004518731.1	scaffold4260	11799	GG	AA	AA	INTERGENIC			
SNP_111852_A_11928	NW_004518731.1	scaffold4260	11928	CC	GG	GG	INTERGENIC			
SNP_111854_A_101	NW_004518733.1	scaffold4263	101	TT	CC	CC	INTERGENIC			
SNP_111855_A_106	NW_004518733.1	scaffold4263	106	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111856_A_429	NW_004518733.1	scaffold4263	429	GG	AA	AA	INTERGENIC		
SNP_111857_A_4261	NW_004518733.1	scaffold4263	4261	AA	CC	CC	INTERGENIC		
SNP_111858_A_4266	NW_004518733.1	scaffold4263	4266	GG	CC	CC	INTERGENIC		
SNP_111859_A_4901	NW_004518733.1	scaffold4263	4901	AA	CC	CC	INTERGENIC		
SNP_111860_A_4902	NW_004518733.1	scaffold4263	4902	CC	AA	AA	INTERGENIC		
SNP_111861_A_6772	NW_004518733.1	scaffold4263	6772	AA	GG	GG	INTERGENIC		
SNP_111862_A_27058	NW_004518733.1	scaffold4263	27058	CC	TT	TT	URR	101494790	putative F-box/FBD/LRR-repeat protein At5g44950
SNP_111863_A_29429	NW_004518733.1	scaffold4263	29429	CC	GG	GG	INTERGENIC		
SNP_111864_A_7122	NW_004518734.1	scaffold4265	7122	CC	AA	AA	INTERGENIC		
SNP_111865_A_7599	NW_004518734.1	scaffold4265	7599	AA	GG	GG	INTERGENIC		
SNP_111866_A_11732	NW_004518736.1	scaffold4269	11732	CC	TT	TT	INTERGENIC		
SNP_111867_A_22485	NW_004518736.1	scaffold4269	22485	AA	CC	CC	INTERGENIC		
SNP_111868_A_22488	NW_004518736.1	scaffold4269	22488	GG	AA	AA	INTERGENIC		
SNP_111869_A_22662	NW_004518736.1	scaffold4269	22662	AA	CC	CC	INTERGENIC		
SNP_111870_A_15297	NW_004518741.1	scaffold4277	15297	CC	GG	GG	INTERGENIC		
SNP_111871_A_18445	NW_004518741.1	scaffold4277	18445	TT	CC	CC	INTERGENIC		
SNP_111872_A_18486	NW_004518741.1	scaffold4277	18486	AA	GG	GG	INTERGENIC		
SNP_111873_A_18534	NW_004518741.1	scaffold4277	18534	AA	CC	CC	INTERGENIC		
SNP_111874_A_18639	NW_004518741.1	scaffold4277	18639	TT	CC	CC	INTERGENIC		
SNP_111875_A_18656	NW_004518741.1	scaffold4277	18656	GG	AA	AA	INTERGENIC		
SNP_111876_A_18674	NW_004518741.1	scaffold4277	18674	GG	TT	TT	INTERGENIC		
SNP_111877_A_18678	NW_004518741.1	scaffold4277	18678	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_111878_A_5136	NW_004518747.1	scaffold4287	5136	CC	AA	AA	URR	101410595	transfer RNA tryptophan (anticodon CCA)
SNP_111879_A_5685	NW_004518751.1	scaffold4291	5685	GG	AA	AA	INTERGENIC		
SNP_111880_A_2650	NW_004518753.1	scaffold4293	2650	AA	TT	TT	INTERGENIC		
SNP_111881_A_1898	NW_004518754.1	scaffold4294	1898	CC	TT	TT	INTERGENIC		
SNP_111882_A_1933	NW_004518754.1	scaffold4294	1933	GG	AA	AA	INTERGENIC		
SNP_111883_A_493	NW_004518755.1	scaffold4295	493	CC	TT	TT	INTERGENIC		
SNP_111884_A_503	NW_004518755.1	scaffold4295	503	AA	CC	CC	INTERGENIC		
SNP_111885_A_572	NW_004518755.1	scaffold4295	572	AA	TT	TT	INTERGENIC		
SNP_111887_A_1906	NW_004518756.1	scaffold4296	1906	TT	GG	GG	INTERGENIC		
SNP_111888_A_1909	NW_004518756.1	scaffold4296	1909	CC	TT	TT	INTERGENIC		
SNP_111889_A_2061	NW_004518756.1	scaffold4296	2061	GG	CC	CC	INTERGENIC		
SNP_111890_A_2066	NW_004518756.1	scaffold4296	2066	AA	CC	CC	INTERGENIC		
SNP_111891_A_2072	NW_004518756.1	scaffold4296	2072	AA	GG	GG	INTERGENIC		
SNP_111892_A_2081	NW_004518756.1	scaffold4296	2081	TT	CC	CC	INTERGENIC		
SNP_111893_A_2094	NW_004518756.1	scaffold4296	2094	GG	AA	AA	INTERGENIC		
SNP_111894_A_2096	NW_004518756.1	scaffold4296	2096	AA	GG	GG	INTERGENIC		
SNP_111895_A_2149	NW_004518756.1	scaffold4296	2149	TT	AA	AA	INTERGENIC		
SNP_111896_A_2180	NW_004518756.1	scaffold4296	2180	AA	GG	GG	INTERGENIC		
SNP_111897_A_2238	NW_004518756.1	scaffold4296	2238	AA	GG	GG	INTERGENIC		
SNP_111898_A_2328	NW_004518756.1	scaffold4296	2328	AA	CC	CC	INTERGENIC		
SNP_111899_A_2403	NW_004518756.1	scaffold4296	2403	AA	TT	TT	INTERGENIC		
SNP_111900_A_2430	NW_004518756.1	scaffold4296	2430	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111901_A_2437	NW_004518756.1	scaffold4296	2437	TT	AA	AA	INTERGENIC			
SNP_111902_A_261	NW_004518758.1	scaffold4300	261	TT	CC	CC	INTERGENIC			
SNP_111903_A_476	NW_004518758.1	scaffold4300	476	TT	GG	GG	INTERGENIC			
SNP_111904_A_1117	NW_004518758.1	scaffold4300	1117	TT	GG	GG	INTERGENIC			
SNP_111905_A_5708	NW_004518765.1	scaffold4316	5708	AA	TT	TT	INTERGENIC			
SNP_111906_A_943	NW_004518767.1	scaffold4319	943	GG	AA	AA	INTERGENIC			
SNP_111907_A_970	NW_004518767.1	scaffold4319	970	CC	TT	TT	INTERGENIC			
SNP_111909_A_1074	NW_004518767.1	scaffold4319	1074	AA	GG	GG	INTERGENIC			
SNP_111910_A_1105	NW_004518767.1	scaffold4319	1105	AA	CC	CC	INTERGENIC			
SNP_111914_A_1492	NW_004518767.1	scaffold4319	1492	CC	TT	TT	INTERGENIC			
SNP_111915_A_1493	NW_004518767.1	scaffold4319	1493	CC	GG	GG	INTERGENIC			
SNP_111917_A_859	NW_004518777.1	scaffold4330	859	CC	GG	GG	INTERGENIC			
SNP_111918_A_865	NW_004518777.1	scaffold4330	865	AA	GG	GG	INTERGENIC			
SNP_111919_A_884	NW_004518777.1	scaffold4330	884	TT	CC	CC	INTERGENIC			
SNP_111920_A_1637	NW_004518778.1	scaffold4331	1637	GG	TT	TT	URR	101495658	uncharacterized LOC101495658	
SNP_111921_A_1651	NW_004518778.1	scaffold4331	1651	GG	TT	TT	URR	101495658	uncharacterized LOC101495658	
SNP_111923_A_4917	NW_004518778.1	scaffold4331	4917	GG	AA	AA	UPSTREAM	id221371	Unknown function	
SNP_111924_A_37097	NW_004518778.1	scaffold4331	37097	GG	AA	AA	INTERGENIC			
SNP_111925_A_43	NW_004518779.1	scaffold4333	43	AA	TT	TT	INTERGENIC			
SNP_111926_A_69	NW_004518779.1	scaffold4333	69	GG	TT	TT	INTERGENIC			
SNP_111927_A_75	NW_004518779.1	scaffold4333	75	AA	TT	TT	INTERGENIC			
SNP_111928_A_80	NW_004518779.1	scaffold4333	80	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111929_A_2524	NW_004518781.1	scaffold4335	2524	GG	TT	TT	INTERGENIC			
SNP_111930_A_2533	NW_004518781.1	scaffold4335	2533	AA	TT	TT	INTERGENIC			
SNP_111931_A_2770	NW_004518781.1	scaffold4335	2770	TT	GG	GG	INTERGENIC			
SNP_111932_A_124	NW_004518782.1	scaffold4336	124	TT	GG	GG	INTERGENIC			
SNP_111933_A_2994	NW_004518782.1	scaffold4336	2994	GG	AA	AA	INTERGENIC			
SNP_111934_A_3250	NW_004518782.1	scaffold4336	3250	AA	GG	GG	INTERGENIC			
SNP_111935_A_3311	NW_004518782.1	scaffold4336	3311	CC	TT	TT	INTERGENIC			
SNP_111936_A_3321	NW_004518782.1	scaffold4336	3321	CC	TT	TT	INTERGENIC			
SNP_111937_A_3330	NW_004518782.1	scaffold4336	3330	CC	TT	TT	INTERGENIC			
SNP_111938_A_1205	NW_004518786.1	scaffold4347	1205	TT	AA	AA	INTERGENIC			
SNP_111939_A_484	NW_004518787.1	scaffold4348	484	AA	TT	TT	INTERGENIC			
SNP_111940_A_821	NW_004518787.1	scaffold4348	821	TT	AA	AA	INTERGENIC			
SNP_111941_A_822	NW_004518787.1	scaffold4348	822	TT	CC	CC	INTERGENIC			
SNP_111942_A_1169	NW_004518787.1	scaffold4348	1169	TT	CC	CC	INTERGENIC			
SNP_111943_A_1733	NW_004518788.1	scaffold4349	1733	AA	TT	TT	INTERGENIC			
SNP_111944_A_1764	NW_004518788.1	scaffold4349	1764	GG	TT	TT	INTERGENIC			
SNP_111946_A_1855	NW_004518788.1	scaffold4349	1855	GG	TT	TT	INTERGENIC			
SNP_111947_A_246	NW_004518791.1	scaffold4354	246	TT	AA	AA	INTERGENIC			
SNP_111948_A_914	NW_004518793.1	scaffold4357	914	GG	AA	AA	INTERGENIC			
SNP_111949_A_919	NW_004518793.1	scaffold4357	919	GG	AA	AA	INTERGENIC			
SNP_111950_A_1035	NW_004518793.1	scaffold4357	1035	CC	TT	TT	INTERGENIC			
SNP_111953_A_388	NW_004518799.1	scaffold4367	388	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111954_A_624	NW_004518799.1	scaffold4367	624	AA	GG	GG	INTERGENIC			
SNP_111955_A_921	NW_004518799.1	scaffold4367	921	GG	TT	TT	INTERGENIC			
SNP_111956_A_951	NW_004518799.1	scaffold4367	951	TT	AA	AA	INTERGENIC			
SNP_111957_A_2565	NW_004518799.1	scaffold4367	2565	TT	AA	AA	INTERGENIC			
SNP_111958_A_2598	NW_004518799.1	scaffold4367	2598	TT	CC	CC	INTERGENIC			
SNP_111959_A_4564	NW_004518799.1	scaffold4367	4564	CC	TT	TT	INTERGENIC			
SNP_111960_A_4574	NW_004518799.1	scaffold4367	4574	TT	CC	CC	INTERGENIC			
SNP_111961_A_5099	NW_004518799.1	scaffold4367	5099	AA	GG	GG	INTERGENIC			
SNP_111962_A_5110	NW_004518799.1	scaffold4367	5110	TT	AA	AA	INTERGENIC			
SNP_111963_A_6321	NW_004518799.1	scaffold4367	6321	CC	GG	GG	INTERGENIC			
SNP_111964_A_6846	NW_004518799.1	scaffold4367	6846	AA	TT	TT	INTERGENIC			
SNP_111965_A_6970	NW_004518799.1	scaffold4367	6970	TT	AA	AA	INTERGENIC			
SNP_111966_A_7873	NW_004518799.1	scaffold4367	7873	TT	GG	GG	INTERGENIC			
SNP_111967_A_7995	NW_004518799.1	scaffold4367	7995	CC	AA	AA	INTERGENIC			
SNP_111968_A_9226	NW_004518799.1	scaffold4367	9226	TT	AA	AA	INTERGENIC			
SNP_111969_A_9264	NW_004518799.1	scaffold4367	9264	AA	CC	CC	INTERGENIC			
SNP_111970_A_9777	NW_004518799.1	scaffold4367	9777	CC	AA	AA	INTERGENIC			
SNP_111971_A_11170	NW_004518799.1	scaffold4367	11170	GG	AA	AA	INTERGENIC			
SNP_111972_A_11205	NW_004518799.1	scaffold4367	11205	GG	AA	AA	INTERGENIC			
SNP_111973_A_11217	NW_004518799.1	scaffold4367	11217	AA	CC	CC	INTERGENIC			
SNP_111974_A_11218	NW_004518799.1	scaffold4367	11218	CC	GG	GG	INTERGENIC			
SNP_111976_A_12561	NW_004518799.1	scaffold4367	12561	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111977_A_12961	NW_004518799.1	scaffold4367	12961	AA	CC	CC	INTERGENIC			
SNP_111978_A_16171	NW_004518799.1	scaffold4367	16171	CC	GG	GG	INTERGENIC			
SNP_111979_A_30180	NW_004518799.1	scaffold4367	30180	AA	GG	GG	INTERGENIC			
SNP_111980_A_30564	NW_004518799.1	scaffold4367	30564	TT	GG	GG	INTERGENIC			
SNP_111981_A_30719	NW_004518799.1	scaffold4367	30719	GG	CC	CC	INTERGENIC			
SNP_111982_A_30755	NW_004518799.1	scaffold4367	30755	CC	TT	TT	INTERGENIC			
SNP_111983_A_30803	NW_004518799.1	scaffold4367	30803	TT	GG	GG	INTERGENIC			
SNP_111984_A_31124	NW_004518799.1	scaffold4367	31124	GG	AA	AA	INTERGENIC			
SNP_111985_A_36154	NW_004518799.1	scaffold4367	36154	TT	AA	AA	INTERGENIC			
SNP_111986_A_36254	NW_004518799.1	scaffold4367	36254	GG	AA	AA	INTERGENIC			
SNP_111987_A_37231	NW_004518799.1	scaffold4367	37231	TT	GG	GG	INTERGENIC			
SNP_111988_A_1111	NW_004518801.1	scaffold4371	1111	GG	TT	TT	INTERGENIC			
SNP_111989_A_212	NW_004518803.1	scaffold4373	212	TT	CC	CC	INTERGENIC			
SNP_111990_A_465	NW_004518803.1	scaffold4373	465	GG	AA	AA	INTERGENIC			
SNP_111991_A_69	NW_004518804.1	scaffold4374	69	CC	AA	AA	INTERGENIC			
SNP_111992_A_209	NW_004518804.1	scaffold4374	209	GG	TT	TT	INTERGENIC			
SNP_111993_A_386	NW_004518804.1	scaffold4374	386	CC	AA	AA	INTERGENIC			
SNP_111994_A_405	NW_004518804.1	scaffold4374	405	TT	CC	CC	INTERGENIC			
SNP_111995_A_424	NW_004518804.1	scaffold4374	424	TT	CC	CC	INTERGENIC			
SNP_111996_A_502	NW_004518804.1	scaffold4374	502	CC	AA	AA	INTERGENIC			
SNP_111997_A_526	NW_004518804.1	scaffold4374	526	TT	AA	AA	INTERGENIC			
SNP_111998_A_587	NW_004518804.1	scaffold4374	587	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_111999_A_713	NW_004518804.1	scaffold4374	713	AA	CC	CC	INTERGENIC			
SNP_112001_A_772	NW_004518804.1	scaffold4374	772	TT	CC	CC	INTERGENIC			
SNP_112002_A_808	NW_004518804.1	scaffold4374	808	CC	TT	TT	INTERGENIC			
SNP_112003_A_1000	NW_004518804.1	scaffold4374	1000	CC	AA	AA	INTERGENIC			
SNP_112004_A_1007	NW_004518804.1	scaffold4374	1007	CC	AA	AA	INTERGENIC			
SNP_112005_A_1137	NW_004518804.1	scaffold4374	1137	AA	CC	CC	INTERGENIC			
SNP_112007_A_1905	NW_004518804.1	scaffold4374	1905	AA	GG	GG	INTERGENIC			
SNP_112008_A_1947	NW_004518804.1	scaffold4374	1947	TT	CC	CC	INTERGENIC			
SNP_112010_A_1804	NW_004518806.1	scaffold4377	1804	AA	GG	GG	INTERGENIC			
SNP_112011_A_1809	NW_004518806.1	scaffold4377	1809	GG	AA	AA	INTERGENIC			
SNP_112013_A_27324	NW_004518806.1	scaffold4377	27324	TT	AA	AA	INTERGENIC			
SNP_112014_A_27419	NW_004518806.1	scaffold4377	27419	AA	TT	TT	INTERGENIC			
SNP_112015_A_33802	NW_004518806.1	scaffold4377	33802	GG	CC	CC	INTERGENIC			
SNP_112016_A_46804	NW_004518806.1	scaffold4377	46804	GG	TT	TT	INTERGENIC			
SNP_112017_A_47106	NW_004518806.1	scaffold4377	47106	TT	AA	AA	INTERGENIC			
SNP_112018_A_47137	NW_004518806.1	scaffold4377	47137	TT	AA	AA	INTERGENIC			
SNP_112019_A_47190	NW_004518806.1	scaffold4377	47190	CC	TT	TT	INTERGENIC			
SNP_112020_A_47840	NW_004518806.1	scaffold4377	47840	TT	CC	CC	INTERGENIC			
SNP_112021_A_47942	NW_004518806.1	scaffold4377	47942	TT	CC	CC	INTERGENIC			
SNP_112022_A_48233	NW_004518806.1	scaffold4377	48233	TT	CC	CC	INTERGENIC			
SNP_112023_A_48332	NW_004518806.1	scaffold4377	48332	AA	CC	CC	INTERGENIC			
SNP_112024_A_48711	NW_004518806.1	scaffold4377	48711	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112025_A_50990	NW_004518806.1	scaffold4377	50990	TT	AA	AA	INTERGENIC			
SNP_112026_A_51053	NW_004518806.1	scaffold4377	51053	GG	CC	CC	INTERGENIC			
SNP_112027_A_51068	NW_004518806.1	scaffold4377	51068	GG	TT	TT	INTERGENIC			
SNP_112028_A_51086	NW_004518806.1	scaffold4377	51086	GG	AA	AA	INTERGENIC			
SNP_112029_A_19461	NW_004518807.1	scaffold4379	19461	GG	AA	AA	INTERGENIC			
SNP_112030_A_761	NW_004518810.1	scaffold4383	761	TT	GG	GG	INTERGENIC			
SNP_112031_A_763	NW_004518810.1	scaffold4383	763	AA	CC	CC	INTERGENIC			
SNP_112032_A_22496	NW_004518810.1	scaffold4383	22496	GG	CC	CC	INTERGENIC			
SNP_112033_A_22613	NW_004518810.1	scaffold4383	22613	TT	CC	CC	INTERGENIC			
SNP_112034_A_22638	NW_004518810.1	scaffold4383	22638	AA	CC	CC	INTERGENIC			
SNP_112035_A_22639	NW_004518810.1	scaffold4383	22639	CC	AA	AA	INTERGENIC			
SNP_112036_A_22640	NW_004518810.1	scaffold4383	22640	TT	CC	CC	INTERGENIC			
SNP_112037_A_22882	NW_004518810.1	scaffold4383	22882	AA	GG	GG	INTERGENIC			
SNP_112038_A_22889	NW_004518810.1	scaffold4383	22889	AA	GG	GG	INTERGENIC			
SNP_112039_A_24877	NW_004518810.1	scaffold4383	24877	CC	TT	TT	INTERGENIC			
SNP_112040_A_24884	NW_004518810.1	scaffold4383	24884	TT	GG	GG	INTERGENIC			
SNP_112041_A_24971	NW_004518810.1	scaffold4383	24971	CC	TT	TT	INTERGENIC			
SNP_112042_A_25008	NW_004518810.1	scaffold4383	25008	GG	CC	CC	INTERGENIC			
SNP_112043_A_885	NW_004518811.1	scaffold4385	885	CC	AA	AA	INTERGENIC			
SNP_112044_A_6419	NW_004518811.1	scaffold4385	6419	GG	CC	CC	INTERGENIC			
SNP_112045_A_6442	NW_004518811.1	scaffold4385	6442	TT	CC	CC	INTERGENIC			
SNP_112046_A_6478	NW_004518811.1	scaffold4385	6478	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112047_A_6479	NW_004518811.1	scaffold4385	6479	AA	GG	GG	INTERGENIC		
SNP_112048_A_7669	NW_004518811.1	scaffold4385	7669	TT	CC	CC	INTERGENIC		
SNP_112051_A_7735	NW_004518811.1	scaffold4385	7735	TT	AA	AA	INTERGENIC		
SNP_112052_A_699	NW_004518813.1	scaffold4387	699	TT	CC	CC	INTERGENIC		
SNP_112053_A_807	NW_004518813.1	scaffold4387	807	AA	TT	TT	INTERGENIC		
SNP_112054_A_1056	NW_004518813.1	scaffold4387	1056	GG	AA	AA	INTERGENIC		
SNP_112055_A_5019	NW_004518813.1	scaffold4387	5019	GG	AA	AA	DRR	101496427	AP-3 complex subunit delta-like
SNP_112056_A_5232	NW_004518813.1	scaffold4387	5232	TT	CC	CC	DRR	101496427	AP-3 complex subunit delta-like
SNP_112057_A_5351	NW_004518813.1	scaffold4387	5351	GG	AA	AA	DRR	101496427	AP-3 complex subunit delta-like
SNP_112058_A_5407	NW_004518813.1	scaffold4387	5407	TT	GG	GG	DRR	101496427	AP-3 complex subunit delta-like
SNP_112059_A_5452	NW_004518813.1	scaffold4387	5452	AA	TT	TT	DRR	101496427	AP-3 complex subunit delta-like
SNP_112060_A_5483	NW_004518813.1	scaffold4387	5483	AA	TT	TT	DRR	101496427	AP-3 complex subunit delta-like
SNP_112062_A_5538	NW_004518813.1	scaffold4387	5538	TT	CC	CC	DRR	101496427	AP-3 complex subunit delta-like
SNP_112063_A_5560	NW_004518813.1	scaffold4387	5560	TT	CC	CC	DRR	101496427	AP-3 complex subunit delta-like
SNP_112064_A_5570	NW_004518813.1	scaffold4387	5570	GG	AA	AA	DRR	101496427	AP-3 complex subunit delta-like
SNP_112065_A_5886	NW_004518813.1	scaffold4387	5886	CC	GG	GG	NON_SYNONYMOUS_CODING	101496427	AP-3 complex subunit delta-like
SNP_112066_A_5944	NW_004518813.1	scaffold4387	5944	GG	TT	TT	STOP_LOST	101496427	AP-3 complex subunit delta-like
SNP_112067_A_6583	NW_004518813.1	scaffold4387	6583	CC	TT	TT	URR	101496427	AP-3 complex subunit delta-like
SNP_112068_A_400	NW_004518814.1	scaffold4388	400	AA	CC	CC	INTERGENIC		
SNP_112069_A_404	NW_004518814.1	scaffold4388	404	AA	CC	CC	INTERGENIC		
SNP_112070_A_422	NW_004518814.1	scaffold4388	422	GG	AA	AA	INTERGENIC		
SNP_112072_A_500	NW_004518814.1	scaffold4388	500	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112073_A_521	NW_004518814.1	scaffold4388	521	TT	CC	CC	INTERGENIC			
SNP_112074_A_543	NW_004518814.1	scaffold4388	543	TT	GG	GG	INTERGENIC			
SNP_112075_A_832	NW_004518814.1	scaffold4388	832	GG	AA	AA	INTERGENIC			
SNP_112076_A_627	NW_004518816.1	scaffold4390	627	AA	GG	GG	INTERGENIC			
SNP_112078_A_2463	NW_004518820.1	scaffold4397	2463	CC	TT	TT	INTERGENIC			
SNP_112079_A_283	NW_004518821.1	scaffold4398	283	GG	CC	CC	INTERGENIC			
SNP_112081_A_483	NW_004518821.1	scaffold4398	483	AA	TT	TT	INTERGENIC			
SNP_112082_A_115	NW_004518823.1	scaffold4402	115	AA	TT	TT	INTERGENIC			
SNP_112083_A_198	NW_004518823.1	scaffold4402	198	AA	GG	GG	INTERGENIC			
SNP_112084_A_264	NW_004518823.1	scaffold4402	264	CC	TT	TT	INTERGENIC			
SNP_112085_A_402	NW_004518823.1	scaffold4402	402	AA	GG	GG	INTERGENIC			
SNP_112086_A_403	NW_004518823.1	scaffold4402	403	GG	TT	TT	INTERGENIC			
SNP_112087_A_454	NW_004518823.1	scaffold4402	454	CC	TT	TT	INTERGENIC			
SNP_112088_A_69	NW_004518824.1	scaffold4404	69	TT	AA	AA	INTERGENIC			
SNP_112089_A_563	NW_004518832.1	scaffold4417	563	TT	CC	CC	INTERGENIC			
SNP_112090_A_852	NW_004518832.1	scaffold4417	852	GG	AA	AA	INTERGENIC			
SNP_112091_A_881	NW_004518832.1	scaffold4417	881	TT	AA	AA	INTERGENIC			
SNP_112092_A_1151	NW_004518832.1	scaffold4417	1151	GG	CC	CC	INTERGENIC			
SNP_112094_A_931	NW_004518837.1	scaffold4426	931	GG	CC	CC	INTERGENIC			
SNP_112095_A_953	NW_004518837.1	scaffold4426	953	TT	AA	AA	INTERGENIC			
SNP_112096_A_962	NW_004518837.1	scaffold4426	962	GG	TT	TT	INTERGENIC			
SNP_112097_A_981	NW_004518837.1	scaffold4426	981	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112098_A_994	NW_004518837.1	scaffold4426	994	GG	AA	AA	INTERGENIC			
SNP_112099_A_405	NW_004518838.1	scaffold4427	405	AA	TT	TT	INTERGENIC			
SNP_112100_A_413	NW_004518838.1	scaffold4427	413	GG	CC	CC	INTERGENIC			
SNP_112101_A_658	NW_004518838.1	scaffold4427	658	AA	TT	TT	INTERGENIC			
SNP_112102_A_565	NW_004518839.1	scaffold4430	565	AA	GG	GG	INTERGENIC			
SNP_112103_A_615	NW_004518840.1	scaffold4431	615	GG	AA	AA	INTERGENIC			
SNP_112104_A_3296	NW_004518843.1	scaffold4436	3296	TT	GG	GG	INTERGENIC			
SNP_112105_A_3435	NW_004518843.1	scaffold4436	3435	AA	GG	GG	INTERGENIC			
SNP_112106_A_3437	NW_004518843.1	scaffold4436	3437	AA	GG	GG	INTERGENIC			
SNP_112107_A_3450	NW_004518843.1	scaffold4436	3450	AA	GG	GG	INTERGENIC			
SNP_112108_A_3452	NW_004518843.1	scaffold4436	3452	TT	CC	CC	INTERGENIC			
SNP_112109_A_3488	NW_004518843.1	scaffold4436	3488	AA	TT	TT	INTERGENIC			
SNP_112110_A_3491	NW_004518843.1	scaffold4436	3491	TT	GG	GG	INTERGENIC			
SNP_112111_A_3517	NW_004518843.1	scaffold4436	3517	AA	CC	CC	INTERGENIC			
SNP_112112_A_3573	NW_004518843.1	scaffold4436	3573	AA	TT	TT	INTERGENIC			
SNP_112113_A_3598	NW_004518843.1	scaffold4436	3598	GG	AA	AA	INTERGENIC			
SNP_112114_A_3602	NW_004518843.1	scaffold4436	3602	TT	AA	AA	INTERGENIC			
SNP_112115_A_3606	NW_004518843.1	scaffold4436	3606	AA	GG	GG	INTERGENIC			
SNP_112116_A_3631	NW_004518843.1	scaffold4436	3631	AA	GG	GG	INTERGENIC			
SNP_112117_A_927	NW_004518844.1	scaffold4437	927	GG	CC	CC	INTERGENIC			
SNP_112118_A_945	NW_004518844.1	scaffold4437	945	AA	CC	CC	INTERGENIC			
SNP_112119_A_963	NW_004518844.1	scaffold4437	963	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112120_A_965	NW_004518844.1	scaffold4437	965	AA	CC	CC	INTERGENIC			
SNP_112121_A_1253	NW_004518844.1	scaffold4437	1253	TT	CC	CC	INTERGENIC			
SNP_112122_A_5594	NW_004518845.1	scaffold4439	5594	CC	GG	GG	INTERGENIC			
SNP_112123_A_6052	NW_004518845.1	scaffold4439	6052	TT	AA	AA	INTERGENIC			
SNP_112124_A_6207	NW_004518845.1	scaffold4439	6207	GG	TT	TT	INTERGENIC			
SNP_112125_A_6324	NW_004518845.1	scaffold4439	6324	AA	TT	TT	INTERGENIC			
SNP_112126_A_6391	NW_004518845.1	scaffold4439	6391	AA	TT	TT	INTERGENIC			
SNP_112127_A_6392	NW_004518845.1	scaffold4439	6392	AA	GG	GG	INTERGENIC			
SNP_112128_A_6503	NW_004518845.1	scaffold4439	6503	AA	GG	GG	INTERGENIC			
SNP_112129_A_6588	NW_004518845.1	scaffold4439	6588	GG	CC	CC	INTERGENIC			
SNP_112130_A_6632	NW_004518845.1	scaffold4439	6632	TT	AA	AA	INTERGENIC			
SNP_112131_A_6677	NW_004518845.1	scaffold4439	6677	TT	GG	GG	INTERGENIC			
SNP_112132_A_6695	NW_004518845.1	scaffold4439	6695	GG	TT	TT	INTERGENIC			
SNP_112133_A_6713	NW_004518845.1	scaffold4439	6713	TT	GG	GG	INTERGENIC			
SNP_112134_A_6849	NW_004518845.1	scaffold4439	6849	TT	CC	CC	INTERGENIC			
SNP_112135_A_1816	NW_004518849.1	scaffold4443	1816	GG	AA	AA	INTERGENIC			
SNP_112136_A_3310	NW_004518855.1	scaffold4452	3310	GG	AA	AA	INTERGENIC			
SNP_112137_A_5119	NW_004518855.1	scaffold4452	5119	TT	CC	CC	INTERGENIC			
SNP_112138_A_5332	NW_004518855.1	scaffold4452	5332	AA	GG	GG	INTERGENIC			
SNP_112139_A_12965	NW_004518855.1	scaffold4452	12965	GG	TT	TT	INTERGENIC			
SNP_112140_A_12971	NW_004518855.1	scaffold4452	12971	TT	CC	CC	INTERGENIC			
SNP_112141_A_13778	NW_004518855.1	scaffold4452	13778	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112142_A_13803	NW_004518855.1	scaffold4452	13803	GG	AA	AA	INTERGENIC		
SNP_112143_A_13816	NW_004518855.1	scaffold4452	13816	TT	CC	CC	INTERGENIC		
SNP_112144_A_13947	NW_004518855.1	scaffold4452	13947	TT	CC	CC	INTERGENIC		
SNP_112145_A_14387	NW_004518855.1	scaffold4452	14387	CC	TT	TT	INTERGENIC		
SNP_112146_A_14394	NW_004518855.1	scaffold4452	14394	GG	CC	CC	INTERGENIC		
SNP_112147_A_14536	NW_004518855.1	scaffold4452	14536	TT	GG	GG	INTERGENIC		
SNP_112148_A_14551	NW_004518855.1	scaffold4452	14551	AA	GG	GG	INTERGENIC		
SNP_112149_A_14567	NW_004518855.1	scaffold4452	14567	CC	TT	TT	INTERGENIC		
SNP_112150_A_15891	NW_004518855.1	scaffold4452	15891	CC	TT	TT	INTERGENIC		
SNP_112151_A_21073	NW_004518855.1	scaffold4452	21073	AA	TT	TT	INTRON	101498400	serine/threonine-protein phosphatase 7 long form homolog
SNP_112152_A_21093	NW_004518855.1	scaffold4452	21093	AA	GG	GG	INTRON	101498400	serine/threonine-protein phosphatase 7 long form homolog
SNP_112153_A_125871	NW_004518855.1	scaffold4452	125871	AA	GG	GG	INTERGENIC		
SNP_112154_A_125890	NW_004518855.1	scaffold4452	125890	CC	AA	AA	INTERGENIC		
SNP_112155_A_126016	NW_004518855.1	scaffold4452	126016	AA	GG	GG	INTERGENIC		
SNP_112156_A_126046	NW_004518855.1	scaffold4452	126046	CC	AA	AA	INTERGENIC		
SNP_112157_A_126117	NW_004518855.1	scaffold4452	126117	AA	TT	TT	INTERGENIC		
SNP_112158_A_126121	NW_004518855.1	scaffold4452	126121	GG	AA	AA	INTERGENIC		
SNP_112159_A_126144	NW_004518855.1	scaffold4452	126144	AA	TT	TT	INTERGENIC		
SNP_112161_A_126205	NW_004518855.1	scaffold4452	126205	GG	AA	AA	INTERGENIC		
SNP_112162_A_126206	NW_004518855.1	scaffold4452	126206	AA	CC	CC	INTERGENIC		
SNP_112163_A_640	NW_004518857.1	scaffold4455	640	CC	TT	TT	INTERGENIC		
SNP_112164_A_1351	NW_004518857.1	scaffold4455	1351	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112165_A_604	NW_004518858.1	scaffold4456	604	TT	AA	AA	INTERGENIC		
SNP_112166_A_2833	NW_004518861.1	scaffold4462	2833	TT	CC	CC	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112167_A_3035	NW_004518861.1	scaffold4462	3035	GG	AA	AA	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112168_A_3059	NW_004518861.1	scaffold4462	3059	AA	GG	GG	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112169_A_3064	NW_004518861.1	scaffold4462	3064	GG	TT	TT	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112170_A_3065	NW_004518861.1	scaffold4462	3065	AA	GG	GG	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112171_A_3358	NW_004518861.1	scaffold4462	3358	GG	CC	CC	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112172_A_3392	NW_004518861.1	scaffold4462	3392	GG	AA	AA	URR	101499371	GDP-mannose 3,5-epimerase 1-like
SNP_112173_A_600	NW_004518862.1	scaffold4465	600	GG	TT	TT	INTERGENIC		
SNP_112174_A_662	NW_004518862.1	scaffold4465	662	GG	AA	AA	INTERGENIC		
SNP_112175_A_2369	NW_004518862.1	scaffold4465	2369	TT	GG	GG	INTERGENIC		
SNP_112176_A_2437	NW_004518862.1	scaffold4465	2437	TT	AA	AA	INTERGENIC		
SNP_112177_A_650	NW_004518869.1	scaffold4475	650	GG	CC	CC	INTERGENIC		
SNP_112178_A_10363	NW_004518873.1	scaffold4481	10363	AA	TT	TT	INTERGENIC		
SNP_112179_A_159	NW_004518878.1	scaffold4488	159	TT	AA	AA	INTERGENIC		
SNP_112180_A_195	NW_004518878.1	scaffold4488	195	CC	AA	AA	INTERGENIC		
SNP_112181_A_391	NW_004518882.1	scaffold4494	391	TT	AA	AA	INTERGENIC		
SNP_112182_A_104	NW_004518883.1	scaffold4495	104	AA	TT	TT	INTERGENIC		
SNP_112183_A_1357	NW_004518888.1	scaffold4503	1357	TT	CC	CC	INTERGENIC		
SNP_112184_A_1581	NW_004518888.1	scaffold4503	1581	TT	AA	AA	INTERGENIC		
SNP_112185_A_1611	NW_004518890.1	scaffold4505	1611	CC	GG	GG	INTERGENIC		
SNP_112186_A_1651	NW_004518890.1	scaffold4505	1651	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112187_A_1756	NW_004518890.1	scaffold4505	1756	GG	CC	CC	INTERGENIC			
SNP_112189_A_442	NW_004518892.1	scaffold4507	442	GG	AA	AA	INTERGENIC			
SNP_112190_A_2985	NW_004518893.1	scaffold4508	2985	TT	AA	AA	INTERGENIC			
SNP_112192_A_33633	NW_004518893.1	scaffold4508	33633	TT	AA	AA	INTERGENIC			
SNP_112193_A_33639	NW_004518893.1	scaffold4508	33639	AA	TT	TT	INTERGENIC			
SNP_112194_A_33640	NW_004518893.1	scaffold4508	33640	TT	GG	GG	INTERGENIC			
SNP_112195_A_33669	NW_004518893.1	scaffold4508	33669	CC	TT	TT	INTERGENIC			
SNP_112196_A_33696	NW_004518893.1	scaffold4508	33696	AA	CC	CC	INTERGENIC			
SNP_112198_A_36775	NW_004518893.1	scaffold4508	36775	TT	AA	AA	INTERGENIC			
SNP_112199_A_36840	NW_004518893.1	scaffold4508	36840	GG	CC	CC	INTERGENIC			
SNP_112200_A_37003	NW_004518893.1	scaffold4508	37003	CC	TT	TT	INTERGENIC			
SNP_112201_A_37079	NW_004518893.1	scaffold4508	37079	CC	TT	TT	INTERGENIC			
SNP_112202_A_37098	NW_004518893.1	scaffold4508	37098	AA	GG	GG	INTERGENIC			
SNP_112203_A_37152	NW_004518893.1	scaffold4508	37152	GG	AA	AA	INTERGENIC			
SNP_112204_A_512	NW_004518894.1	scaffold4509	512	TT	CC	CC	INTERGENIC			
SNP_112205_A_527	NW_004518894.1	scaffold4509	527	GG	AA	AA	INTERGENIC			
SNP_112206_A_555	NW_004518894.1	scaffold4509	555	AA	CC	CC	INTERGENIC			
SNP_112207_A_767	NW_004518894.1	scaffold4509	767	GG	CC	CC	INTERGENIC			
SNP_112208_A_802	NW_004518894.1	scaffold4509	802	AA	TT	TT	INTERGENIC			
SNP_112209_A_1235	NW_004518894.1	scaffold4509	1235	GG	AA	AA	INTERGENIC			
SNP_112210_A_1636	NW_004518894.1	scaffold4509	1636	GG	AA	AA	INTERGENIC			
SNP_112212_A_11671	NW_004518896.1	scaffold4511	11671	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112213_A_12899	NW_004518896.1	scaffold4511	12899	AA	TT	TT	INTERGENIC			
SNP_112214_A_22734	NW_004518896.1	scaffold4511	22734	AA	TT	TT	INTERGENIC			
SNP_112215_A_22828	NW_004518896.1	scaffold4511	22828	AA	GG	GG	INTERGENIC			
SNP_112217_A_22937	NW_004518896.1	scaffold4511	22937	TT	AA	AA	INTERGENIC			
SNP_112218_A_22942	NW_004518896.1	scaffold4511	22942	CC	TT	TT	INTERGENIC			
SNP_112220_A_23071	NW_004518896.1	scaffold4511	23071	TT	CC	CC	INTERGENIC			
SNP_112221_A_23188	NW_004518896.1	scaffold4511	23188	AA	GG	GG	INTERGENIC			
SNP_112222_A_23267	NW_004518896.1	scaffold4511	23267	CC	TT	TT	INTERGENIC			
SNP_112223_A_23391	NW_004518896.1	scaffold4511	23391	TT	CC	CC	INTERGENIC			
SNP_112224_A_23510	NW_004518896.1	scaffold4511	23510	AA	GG	GG	INTERGENIC			
SNP_112226_A_70	NW_004518898.1	scaffold4513	70	AA	GG	GG	INTERGENIC			
SNP_112227_A_79	NW_004518898.1	scaffold4513	79	GG	TT	TT	INTERGENIC			
SNP_112228_A_226	NW_004518898.1	scaffold4513	226	TT	GG	GG	INTERGENIC			
SNP_112229_A_371	NW_004518898.1	scaffold4513	371	GG	AA	AA	INTERGENIC			
SNP_112230_A_3101	NW_004518898.1	scaffold4513	3101	GG	TT	TT	INTERGENIC			
SNP_112231_A_3112	NW_004518898.1	scaffold4513	3112	GG	TT	TT	INTERGENIC			
SNP_112232_A_3140	NW_004518898.1	scaffold4513	3140	TT	AA	AA	INTERGENIC			
SNP_112233_A_3208	NW_004518898.1	scaffold4513	3208	AA	GG	GG	INTERGENIC			
SNP_112234_A_3257	NW_004518898.1	scaffold4513	3257	GG	AA	AA	INTERGENIC			
SNP_112235_A_3265	NW_004518898.1	scaffold4513	3265	TT	AA	AA	INTERGENIC			
SNP_112236_A_3271	NW_004518898.1	scaffold4513	3271	TT	CC	CC	INTERGENIC			
SNP_112237_A_3363	NW_004518898.1	scaffold4513	3363	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112238_A_3512	NW_004518898.1	scaffold4513	3512	TT	CC	CC	INTERGENIC			
SNP_112239_A_3540	NW_004518898.1	scaffold4513	3540	GG	AA	AA	INTERGENIC			
SNP_112240_A_3571	NW_004518898.1	scaffold4513	3571	TT	CC	CC	INTERGENIC			
SNP_112241_A_475	NW_004518900.1	scaffold4515	475	GG	AA	AA	INTERGENIC			
SNP_112243_A_756	NW_004518900.1	scaffold4515	756	GG	CC	CC	INTERGENIC			
SNP_112244_A_450	NW_004518904.1	scaffold4521	450	GG	AA	AA	INTERGENIC			
SNP_112245_A_479	NW_004518904.1	scaffold4521	479	GG	AA	AA	INTERGENIC			
SNP_112246_A_2288	NW_004518906.1	scaffold4524	2288	TT	CC	CC	INTERGENIC			
SNP_112247_A_400	NW_004518907.1	scaffold4525	400	AA	TT	TT	INTERGENIC			
SNP_112248_A_687	NW_004518907.1	scaffold4525	687	GG	TT	TT	INTERGENIC			
SNP_112249_A_790	NW_004518907.1	scaffold4525	790	CC	TT	TT	INTERGENIC			
SNP_112250_A_819	NW_004518907.1	scaffold4525	819	AA	GG	GG	INTERGENIC			
SNP_112251_A_822	NW_004518907.1	scaffold4525	822	TT	GG	GG	INTERGENIC			
SNP_112252_A_942	NW_004518907.1	scaffold4525	942	AA	GG	GG	INTERGENIC			
SNP_112253_A_536	NW_004518910.1	scaffold4528	536	TT	CC	CC	INTERGENIC			
SNP_112254_A_545	NW_004518910.1	scaffold4528	545	CC	AA	AA	INTERGENIC			
SNP_112255_A_15118	NW_004518915.1	scaffold4533	15118	AA	GG	GG	INTERGENIC			
SNP_112256_A_155	NW_004518916.1	scaffold4534	155	GG	AA	AA	INTERGENIC			
SNP_112257_A_175	NW_004518916.1	scaffold4534	175	TT	AA	AA	INTERGENIC			
SNP_112258_A_178	NW_004518916.1	scaffold4534	178	AA	GG	GG	INTERGENIC			
SNP_112259_A_190	NW_004518916.1	scaffold4534	190	GG	AA	AA	INTERGENIC			
SNP_112260_A_191	NW_004518916.1	scaffold4534	191	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112261_A_194	NW_004518916.1	scaffold4534	194	CC	TT	TT	INTERGENIC			
SNP_112262_A_208	NW_004518916.1	scaffold4534	208	AA	TT	TT	INTERGENIC			
SNP_112263_A_212	NW_004518916.1	scaffold4534	212	AA	GG	GG	INTERGENIC			
SNP_112264_A_403	NW_004518916.1	scaffold4534	403	AA	CC	CC	INTERGENIC			
SNP_112265_A_476	NW_004518916.1	scaffold4534	476	TT	AA	AA	INTERGENIC			
SNP_112266_A_681	NW_004518916.1	scaffold4534	681	CC	TT	TT	INTERGENIC			
SNP_112267_A_702	NW_004518916.1	scaffold4534	702	GG	AA	AA	INTERGENIC			
SNP_112268_A_710	NW_004518916.1	scaffold4534	710	AA	TT	TT	INTERGENIC			
SNP_112269_A_731	NW_004518916.1	scaffold4534	731	GG	AA	AA	INTERGENIC			
SNP_112270_A_734	NW_004518916.1	scaffold4534	734	CC	TT	TT	INTERGENIC			
SNP_112271_A_2840	NW_004518916.1	scaffold4534	2840	TT	GG	GG	INTERGENIC			
SNP_112272_A_3046	NW_004518916.1	scaffold4534	3046	TT	AA	AA	INTERGENIC			
SNP_112273_A_1402	NW_004518919.1	scaffold4538	1402	AA	CC	CC	INTERGENIC			
SNP_112274_A_1439	NW_004518919.1	scaffold4538	1439	GG	AA	AA	INTERGENIC			
SNP_112275_A_1603	NW_004518919.1	scaffold4538	1603	GG	AA	AA	INTERGENIC			
SNP_112276_A_1635	NW_004518919.1	scaffold4538	1635	TT	CC	CC	INTERGENIC			
SNP_112277_A_1638	NW_004518919.1	scaffold4538	1638	TT	AA	AA	INTERGENIC			
SNP_112278_A_1656	NW_004518919.1	scaffold4538	1656	AA	CC	CC	INTERGENIC			
SNP_112279_A_1729	NW_004518919.1	scaffold4538	1729	GG	TT	TT	INTERGENIC			
SNP_112280_A_1738	NW_004518919.1	scaffold4538	1738	AA	GG	GG	INTERGENIC			
SNP_112281_A_3380	NW_004518919.1	scaffold4538	3380	CC	TT	TT	INTERGENIC			
SNP_112282_A_3382	NW_004518919.1	scaffold4538	3382	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112283_A_5773	NW_004518919.1	scaffold4538	5773	GG	AA	AA	INTERGENIC			
SNP_112284_A_1460	NW_004518922.1	scaffold4543	1460	TT	GG	GG	INTERGENIC			
SNP_112285_A_1470	NW_004518922.1	scaffold4543	1470	TT	AA	AA	INTERGENIC			
SNP_112287_A_4566	NW_004518922.1	scaffold4543	4566	TT	CC	CC	INTERGENIC			
SNP_112289_A_69	NW_004518924.1	scaffold4549	69	TT	AA	AA	INTERGENIC			
SNP_112290_A_84	NW_004518924.1	scaffold4549	84	AA	CC	CC	INTERGENIC			
SNP_112291_A_91	NW_004518924.1	scaffold4549	91	AA	GG	GG	INTERGENIC			
SNP_112292_A_103	NW_004518924.1	scaffold4549	103	AA	GG	GG	INTERGENIC			
SNP_112294_A_190	NW_004518924.1	scaffold4549	190	CC	TT	TT	INTERGENIC			
SNP_112295_A_196	NW_004518924.1	scaffold4549	196	GG	AA	AA	INTERGENIC			
SNP_112297_A_472	NW_004518924.1	scaffold4549	472	AA	TT	TT	INTERGENIC			
SNP_112298_A_483	NW_004518924.1	scaffold4549	483	GG	AA	AA	INTERGENIC			
SNP_112299_A_2681	NW_004518926.1	scaffold4551	2681	TT	AA	AA	INTERGENIC			
SNP_112300_A_2686	NW_004518926.1	scaffold4551	2686	CC	GG	GG	INTERGENIC			
SNP_112301_A_2713	NW_004518926.1	scaffold4551	2713	AA	GG	GG	INTERGENIC			
SNP_112302_A_2751	NW_004518926.1	scaffold4551	2751	GG	CC	CC	INTERGENIC			
SNP_112303_A_2780	NW_004518926.1	scaffold4551	2780	AA	TT	TT	INTERGENIC			
SNP_112304_A_3920	NW_004518926.1	scaffold4551	3920	AA	TT	TT	INTERGENIC			
SNP_112305_A_6094	NW_004518926.1	scaffold4551	6094	CC	AA	AA	INTERGENIC			
SNP_112306_A_6439	NW_004518926.1	scaffold4551	6439	AA	TT	TT	INTERGENIC			
SNP_112307_A_15317	NW_004518926.1	scaffold4551	15317	GG	CC	CC	INTERGENIC			
SNP_112308_A_18710	NW_004518926.1	scaffold4551	18710	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112309_A_18832	NW_004518926.1	scaffold4551	18832	TT	GG	GG	INTERGENIC			
SNP_112310_A_18895	NW_004518926.1	scaffold4551	18895	TT	AA	AA	INTERGENIC			
SNP_112311_A_18902	NW_004518926.1	scaffold4551	18902	TT	AA	AA	INTERGENIC			
SNP_112312_A_18994	NW_004518926.1	scaffold4551	18994	CC	TT	TT	INTERGENIC			
SNP_112313_A_19001	NW_004518926.1	scaffold4551	19001	TT	AA	AA	INTERGENIC			
SNP_112314_A_19006	NW_004518926.1	scaffold4551	19006	AA	GG	GG	INTERGENIC			
SNP_112315_A_19020	NW_004518926.1	scaffold4551	19020	GG	TT	TT	INTERGENIC			
SNP_112316_A_19065	NW_004518926.1	scaffold4551	19065	GG	AA	AA	INTERGENIC			
SNP_112317_A_19066	NW_004518926.1	scaffold4551	19066	AA	CC	CC	INTERGENIC			
SNP_112318_A_19076	NW_004518926.1	scaffold4551	19076	AA	TT	TT	INTERGENIC			
SNP_112319_A_19122	NW_004518926.1	scaffold4551	19122	CC	TT	TT	INTERGENIC			
SNP_112320_A_19154	NW_004518926.1	scaffold4551	19154	GG	TT	TT	INTERGENIC			
SNP_112322_A_19193	NW_004518926.1	scaffold4551	19193	AA	TT	TT	INTERGENIC			
SNP_112324_A_19407	NW_004518926.1	scaffold4551	19407	TT	AA	AA	INTERGENIC			
SNP_112325_A_19409	NW_004518926.1	scaffold4551	19409	AA	TT	TT	INTERGENIC			
SNP_112326_A_19441	NW_004518926.1	scaffold4551	19441	GG	AA	AA	INTERGENIC			
SNP_112327_A_566	NW_004518930.1	scaffold4557	566	TT	CC	CC	INTERGENIC			
SNP_112328_A_807	NW_004518930.1	scaffold4557	807	TT	AA	AA	INTERGENIC			
SNP_112329_A_823	NW_004518930.1	scaffold4557	823	TT	GG	GG	INTERGENIC			
SNP_112330_A_10540	NW_004518938.1	scaffold4570	10540	GG	CC	CC	INTERGENIC			
SNP_112331_A_10601	NW_004518938.1	scaffold4570	10601	TT	CC	CC	INTERGENIC			
SNP_112332_A_10686	NW_004518938.1	scaffold4570	10686	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112333_A_378	NW_004518939.1	scaffold4572	378	AA	TT	TT	INTERGENIC			
SNP_112334_A_1227	NW_004518939.1	scaffold4572	1227	CC	TT	TT	INTERGENIC			
SNP_112335_A_1951	NW_004518939.1	scaffold4572	1951	CC	AA	AA	INTERGENIC			
SNP_112336_A_2000	NW_004518939.1	scaffold4572	2000	TT	CC	CC	INTERGENIC			
SNP_112337_A_2009	NW_004518939.1	scaffold4572	2009	GG	TT	TT	INTERGENIC			
SNP_112338_A_2115	NW_004518939.1	scaffold4572	2115	GG	AA	AA	INTERGENIC			
SNP_112339_A_2116	NW_004518939.1	scaffold4572	2116	GG	AA	AA	INTERGENIC			
SNP_112340_A_2337	NW_004518939.1	scaffold4572	2337	GG	CC	CC	INTERGENIC			
SNP_112341_A_2344	NW_004518939.1	scaffold4572	2344	CC	AA	AA	INTERGENIC			
SNP_112342_A_2422	NW_004518939.1	scaffold4572	2422	GG	AA	AA	INTERGENIC			
SNP_112343_A_2438	NW_004518939.1	scaffold4572	2438	AA	TT	TT	INTERGENIC			
SNP_112344_A_8916	NW_004518939.1	scaffold4572	8916	TT	CC	CC	INTERGENIC			
SNP_112345_A_8952	NW_004518939.1	scaffold4572	8952	AA	TT	TT	INTERGENIC			
SNP_112346_A_8979	NW_004518939.1	scaffold4572	8979	GG	CC	CC	INTERGENIC			
SNP_112347_A_8987	NW_004518939.1	scaffold4572	8987	TT	GG	GG	INTERGENIC			
SNP_112348_A_9811	NW_004518939.1	scaffold4572	9811	TT	AA	AA	INTERGENIC			
SNP_112349_A_10445	NW_004518939.1	scaffold4572	10445	TT	GG	GG	INTERGENIC			
SNP_112350_A_10463	NW_004518939.1	scaffold4572	10463	AA	TT	TT	INTERGENIC			
SNP_112351_A_11172	NW_004518940.1	scaffold4573	11172	GG	AA	AA	INTERGENIC			
SNP_112352_A_11180	NW_004518940.1	scaffold4573	11180	CC	GG	GG	INTERGENIC			
SNP_112353_A_11210	NW_004518940.1	scaffold4573	11210	GG	TT	TT	INTERGENIC			
SNP_112354_A_566	NW_004518945.1	scaffold4578	566	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112355_A_840	NW_004518945.1	scaffold4578	840	TT	GG	GG	INTERGENIC			
SNP_112356_A_875	NW_004518945.1	scaffold4578	875	GG	AA	AA	INTERGENIC			
SNP_112358_A_1070	NW_004518947.1	scaffold4582	1070	GG	TT	TT	INTERGENIC			
SNP_112359_A_1097	NW_004518947.1	scaffold4582	1097	AA	TT	TT	INTERGENIC			
SNP_112360_A_5888	NW_004518947.1	scaffold4582	5888	AA	GG	GG	INTERGENIC			
SNP_112361_A_6078	NW_004518947.1	scaffold4582	6078	GG	CC	CC	INTERGENIC			
SNP_112362_A_6119	NW_004518947.1	scaffold4582	6119	TT	CC	CC	INTERGENIC			
SNP_112363_A_6371	NW_004518947.1	scaffold4582	6371	AA	CC	CC	INTERGENIC			
SNP_112364_A_6407	NW_004518947.1	scaffold4582	6407	AA	GG	GG	INTERGENIC			
SNP_112365_A_7072	NW_004518947.1	scaffold4582	7072	CC	TT	TT	INTERGENIC			
SNP_112366_A_7218	NW_004518947.1	scaffold4582	7218	AA	GG	GG	INTERGENIC			
SNP_112367_A_7220	NW_004518947.1	scaffold4582	7220	CC	AA	AA	INTERGENIC			
SNP_112368_A_7249	NW_004518947.1	scaffold4582	7249	CC	AA	AA	INTERGENIC			
SNP_112369_A_7488	NW_004518947.1	scaffold4582	7488	TT	AA	AA	INTERGENIC			
SNP_112370_A_7492	NW_004518947.1	scaffold4582	7492	TT	CC	CC	INTERGENIC			
SNP_112371_A_7570	NW_004518947.1	scaffold4582	7570	TT	CC	CC	INTERGENIC			
SNP_112373_A_7685	NW_004518947.1	scaffold4582	7685	TT	CC	CC	INTERGENIC			
SNP_112374_A_7692	NW_004518947.1	scaffold4582	7692	CC	TT	TT	INTERGENIC			
SNP_112375_A_7724	NW_004518947.1	scaffold4582	7724	TT	CC	CC	INTERGENIC			
SNP_112376_A_7732	NW_004518947.1	scaffold4582	7732	GG	AA	AA	INTERGENIC			
SNP_112377_A_7803	NW_004518947.1	scaffold4582	7803	TT	CC	CC	INTERGENIC			
SNP_112378_A_7952	NW_004518947.1	scaffold4582	7952	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112379_A_7970	NW_004518947.1	scaffold4582	7970	CC	TT	TT	INTERGENIC			
SNP_112380_A_7979	NW_004518947.1	scaffold4582	7979	TT	CC	CC	INTERGENIC			
SNP_112381_A_11346	NW_004518947.1	scaffold4582	11346	GG	TT	TT	INTERGENIC			
SNP_112382_A_3729	NW_004518949.1	scaffold4585	3729	TT	CC	CC	INTERGENIC			
SNP_112383_A_2715	NW_004518955.1	scaffold4591	2715	GG	TT	TT	INTERGENIC			
SNP_112384_A_5389	NW_004518955.1	scaffold4591	5389	GG	CC	CC	INTERGENIC			
SNP_112385_A_5761	NW_004518955.1	scaffold4591	5761	CC	AA	AA	INTERGENIC			
SNP_112386_A_6259	NW_004518955.1	scaffold4591	6259	CC	GG	GG	INTERGENIC			
SNP_112387_A_6267	NW_004518955.1	scaffold4591	6267	AA	CC	CC	INTERGENIC			
SNP_112388_A_6397	NW_004518955.1	scaffold4591	6397	AA	TT	TT	INTERGENIC			
SNP_112389_A_7048	NW_004518955.1	scaffold4591	7048	TT	CC	CC	INTERGENIC			
SNP_112390_A_1341	NW_004518956.1	scaffold4592	1341	AA	TT	TT	INTERGENIC			
SNP_112391_A_905	NW_004518962.1	scaffold4600	905	AA	TT	TT	INTERGENIC			
SNP_112392_A_1074	NW_004518962.1	scaffold4600	1074	AA	GG	GG	INTERGENIC			
SNP_112394_A_1495	NW_004518962.1	scaffold4600	1495	CC	TT	TT	INTERGENIC			
SNP_112395_A_1650	NW_004518962.1	scaffold4600	1650	AA	GG	GG	INTERGENIC			
SNP_112396_A_1825	NW_004518962.1	scaffold4600	1825	GG	TT	TT	INTERGENIC			
SNP_112397_A_7400	NW_004518963.1	scaffold4602	7400	GG	AA	AA	INTERGENIC			
SNP_112398_A_7744	NW_004518963.1	scaffold4602	7744	AA	GG	GG	INTERGENIC			
SNP_112399_A_7761	NW_004518963.1	scaffold4602	7761	TT	GG	GG	INTERGENIC			
SNP_112400_A_7776	NW_004518963.1	scaffold4602	7776	AA	CC	CC	INTERGENIC			
SNP_112401_A_7826	NW_004518963.1	scaffold4602	7826	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112402_A_7878	NW_004518963.1	scaffold4602	7878	AA	GG	GG	INTERGENIC			
SNP_112403_A_7896	NW_004518963.1	scaffold4602	7896	TT	GG	GG	INTERGENIC			
SNP_112404_A_7947	NW_004518963.1	scaffold4602	7947	AA	CC	CC	INTERGENIC			
SNP_112405_A_8256	NW_004518963.1	scaffold4602	8256	GG	AA	AA	INTERGENIC			
SNP_112406_A_19323	NW_004518963.1	scaffold4602	19323	TT	AA	AA	INTERGENIC			
SNP_112407_A_19339	NW_004518963.1	scaffold4602	19339	CC	GG	GG	INTERGENIC			
SNP_112408_A_19361	NW_004518963.1	scaffold4602	19361	AA	GG	GG	INTERGENIC			
SNP_112409_A_17063	NW_004518965.1	scaffold4605	17063	TT	AA	AA	INTERGENIC			
SNP_112410_A_21853	NW_004518965.1	scaffold4605	21853	TT	GG	GG	INTERGENIC			
SNP_112411_A_22248	NW_004518965.1	scaffold4605	22248	GG	CC	CC	INTERGENIC			
SNP_112412_A_23232	NW_004518965.1	scaffold4605	23232	GG	CC	CC	INTERGENIC			
SNP_112413_A_24378	NW_004518965.1	scaffold4605	24378	TT	GG	GG	INTERGENIC			
SNP_112414_A_24417	NW_004518965.1	scaffold4605	24417	GG	AA	AA	INTERGENIC			
SNP_112415_A_24611	NW_004518965.1	scaffold4605	24611	CC	GG	GG	INTERGENIC			
SNP_112416_A_24769	NW_004518965.1	scaffold4605	24769	AA	GG	GG	INTERGENIC			
SNP_112418_A_24879	NW_004518965.1	scaffold4605	24879	TT	AA	AA	INTERGENIC			
SNP_112419_A_24934	NW_004518965.1	scaffold4605	24934	TT	AA	AA	INTERGENIC			
SNP_112420_A_24970	NW_004518965.1	scaffold4605	24970	CC	AA	AA	INTERGENIC			
SNP_112421_A_25139	NW_004518965.1	scaffold4605	25139	TT	GG	GG	INTERGENIC			
SNP_112422_A_25353	NW_004518965.1	scaffold4605	25353	AA	CC	CC	INTERGENIC			
SNP_112423_A_4381	NW_004518966.1	scaffold4607	4381	TT	CC	CC	INTERGENIC			
SNP_112424_A_321	NW_004518978.1	scaffold4628	321	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112425_A_511	NW_004518978.1	scaffold4628	511	GG	TT	TT	INTERGENIC			
SNP_112426_A_560	NW_004518978.1	scaffold4628	560	TT	CC	CC	INTERGENIC			
SNP_112427_A_5947	NW_004518979.1	scaffold4629	5947	CC	TT	TT	INTERGENIC			
SNP_112428_A_5975	NW_004518979.1	scaffold4629	5975	GG	AA	AA	INTERGENIC			
SNP_112429_A_6055	NW_004518979.1	scaffold4629	6055	GG	AA	AA	INTERGENIC			
SNP_112430_A_6093	NW_004518979.1	scaffold4629	6093	GG	AA	AA	INTERGENIC			
SNP_112431_A_6094	NW_004518979.1	scaffold4629	6094	CC	TT	TT	INTERGENIC			
SNP_112432_A_6133	NW_004518979.1	scaffold4629	6133	GG	CC	CC	INTERGENIC			
SNP_112433_A_6140	NW_004518979.1	scaffold4629	6140	AA	GG	GG	INTERGENIC			
SNP_112434_A_6395	NW_004518979.1	scaffold4629	6395	CC	TT	TT	INTERGENIC			
SNP_112435_A_6397	NW_004518979.1	scaffold4629	6397	AA	GG	GG	INTERGENIC			
SNP_112436_A_1284	NW_004518981.1	scaffold4633	1284	CC	TT	TT	INTERGENIC			
SNP_112437_A_1618	NW_004518981.1	scaffold4633	1618	AA	GG	GG	INTERGENIC			
SNP_112438_A_1887	NW_004518981.1	scaffold4633	1887	AA	CC	CC	INTERGENIC			
SNP_112439_A_1910	NW_004518981.1	scaffold4633	1910	GG	AA	AA	INTERGENIC			
SNP_112441_A_3935	NW_004518983.1	scaffold4635	3935	GG	TT	TT	INTERGENIC			
SNP_112442_A_729	NW_004518986.1	scaffold4638	729	AA	TT	TT	INTERGENIC			
SNP_112443_A_774	NW_004518986.1	scaffold4638	774	GG	AA	AA	INTERGENIC			
SNP_112444_A_913	NW_004518986.1	scaffold4638	913	GG	TT	TT	INTERGENIC			
SNP_112445_A_927	NW_004518986.1	scaffold4638	927	AA	TT	TT	INTERGENIC			
SNP_112446_A_510	NW_004518989.1	scaffold4642	510	GG	AA	AA	INTERGENIC			
SNP_112447_A_1037	NW_004518989.1	scaffold4642	1037	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112448_A_1070	NW_004518989.1	scaffold4642	1070	GG	CC	CC	INTERGENIC		
SNP_112449_A_1276	NW_004518989.1	scaffold4642	1276	CC	TT	TT	INTERGENIC		
SNP_112450_A_1295	NW_004518989.1	scaffold4642	1295	AA	CC	CC	INTERGENIC		
SNP_112451_A_1977	NW_004518989.1	scaffold4642	1977	AA	TT	TT	INTERGENIC		
SNP_112452_A_24561	NW_004518990.1	scaffold4643	24561	AA	TT	TT	INTERGENIC		
SNP_112453_A_24581	NW_004518990.1	scaffold4643	24581	TT	CC	CC	INTERGENIC		
SNP_112454_A_24629	NW_004518990.1	scaffold4643	24629	CC	TT	TT	INTERGENIC		
SNP_112456_A_360	NW_004518992.1	scaffold4647	360	AA	TT	TT	INTERGENIC		
SNP_112457_A_361	NW_004518992.1	scaffold4647	361	CC	TT	TT	INTERGENIC		
SNP_112458_A_371	NW_004518992.1	scaffold4647	371	CC	AA	AA	INTERGENIC		
SNP_112459_A_376	NW_004518992.1	scaffold4647	376	TT	AA	AA	INTERGENIC		
SNP_112460_A_1464	NW_004518992.1	scaffold4647	1464	CC	TT	TT	INTERGENIC		
SNP_112461_A_1485	NW_004518992.1	scaffold4647	1485	AA	GG	GG	INTERGENIC		
SNP_112462_A_1765	NW_004518992.1	scaffold4647	1765	TT	GG	GG	INTERGENIC		
SNP_112463_A_2040	NW_004518992.1	scaffold4647	2040	TT	AA	AA	INTERGENIC		
SNP_112464_A_2494	NW_004518992.1	scaffold4647	2494	AA	TT	TT	INTERGENIC		
SNP_112465_A_2502	NW_004518992.1	scaffold4647	2502	GG	AA	AA	INTERGENIC		
SNP_112466_A_2823	NW_004518992.1	scaffold4647	2823	CC	TT	TT	INTERGENIC		
SNP_112467_A_5492	NW_004518992.1	scaffold4647	5492	AA	TT	TT	INTERGENIC		
SNP_112468_A_595	NW_004518994.1	scaffold4651	595	AA	GG	GG	INTRON	101502653	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_112469_A_926	NW_004518994.1	scaffold4651	926	TT	CC	CC	INTRON	101502653	F-box/FBD/LRR-repeat protein At3g26920-like
SNP_112470_A_28460	NW_004519000.1	scaffold4662	28460	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112471_A_29233	NW_004519000.1	scaffold4662	29233	TT	CC	CC	INTERGENIC		
SNP_112472_A_29249	NW_004519000.1	scaffold4662	29249	TT	CC	CC	INTERGENIC		
SNP_112473_A_30025	NW_004519000.1	scaffold4662	30025	AA	GG	GG	INTERGENIC		
SNP_112474_A_30084	NW_004519000.1	scaffold4662	30084	TT	CC	CC	INTERGENIC		
SNP_112475_A_30148	NW_004519000.1	scaffold4662	30148	GG	CC	CC	INTERGENIC		
SNP_112476_A_4831	NW_004519004.1	scaffold4668	4831	TT	CC	CC	DRR	101502967	uncharacterized LOC101502967
SNP_112477_A_4909	NW_004519004.1	scaffold4668	4909	AA	GG	GG	DRR	101502967	uncharacterized LOC101502967
SNP_112478_A_5123	NW_004519004.1	scaffold4668	5123	CC	GG	GG	DRR	101503290	cold shock domain-containing protein 3-like
SNP_112479_A_5205	NW_004519004.1	scaffold4668	5205	GG	CC	CC	DRR	101503290	cold shock domain-containing protein 3-like
SNP_112480_A_8374	NW_004519008.1	scaffold4673	8374	CC	TT	TT	INTERGENIC		
SNP_112481_A_8386	NW_004519008.1	scaffold4673	8386	CC	TT	TT	INTERGENIC		
SNP_112482_A_8978	NW_004519008.1	scaffold4673	8978	AA	GG	GG	INTERGENIC		
SNP_112483_A_13304	NW_004519008.1	scaffold4673	13304	TT	CC	CC	INTERGENIC		
SNP_112484_A_13340	NW_004519008.1	scaffold4673	13340	GG	AA	AA	INTERGENIC		
SNP_112485_A_20155	NW_004519008.1	scaffold4673	20155	AA	GG	GG	URR	101503620	S-type anion channel SLAH1-like
SNP_112486_A_20787	NW_004519008.1	scaffold4673	20787	AA	GG	GG	URR	101503620	S-type anion channel SLAH1-like
SNP_112487_A_20806	NW_004519008.1	scaffold4673	20806	GG	AA	AA	URR	101503620	S-type anion channel SLAH1-like
SNP_112488_A_978	NW_004519011.1	scaffold4679	978	AA	GG	GG	INTERGENIC		
SNP_112489_A_982	NW_004519011.1	scaffold4679	982	CC	TT	TT	INTERGENIC		
SNP_112490_A_1076	NW_004519011.1	scaffold4679	1076	AA	GG	GG	INTERGENIC		
SNP_112491_A_64	NW_004519018.1	scaffold4692	64	GG	AA	AA	INTERGENIC		
SNP_112492_A_69	NW_004519018.1	scaffold4692	69	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112493_A_168	NW_004519018.1	scaffold4692	168	AA	TT	TT	INTERGENIC			
SNP_112494_A_399	NW_004519018.1	scaffold4692	399	AA	TT	TT	INTERGENIC			
SNP_112495_A_456	NW_004519018.1	scaffold4692	456	AA	GG	GG	INTERGENIC			
SNP_112496_A_529	NW_004519018.1	scaffold4692	529	CC	GG	GG	INTERGENIC			
SNP_112498_A_434	NW_004519019.1	scaffold4693	434	TT	AA	AA	INTERGENIC			
SNP_112499_A_435	NW_004519019.1	scaffold4693	435	GG	AA	AA	INTERGENIC			
SNP_112500_A_448	NW_004519019.1	scaffold4693	448	GG	AA	AA	INTERGENIC			
SNP_112501_A_475	NW_004519019.1	scaffold4693	475	CC	TT	TT	INTERGENIC			
SNP_112502_A_435	NW_004519020.1	scaffold4695	435	CC	TT	TT	INTERGENIC			
SNP_112503_A_602	NW_004519020.1	scaffold4695	602	CC	AA	AA	INTERGENIC			
SNP_112504_A_640	NW_004519020.1	scaffold4695	640	AA	GG	GG	INTERGENIC			
SNP_112505_A_676	NW_004519020.1	scaffold4695	676	TT	CC	CC	INTERGENIC			
SNP_112506_A_5600	NW_004519020.1	scaffold4695	5600	AA	GG	GG	INTERGENIC			
SNP_112507_A_5643	NW_004519020.1	scaffold4695	5643	TT	GG	GG	INTERGENIC			
SNP_112508_A_5681	NW_004519020.1	scaffold4695	5681	TT	GG	GG	INTERGENIC			
SNP_112510_A_400	NW_004519025.1	scaffold4702	400	GG	TT	TT	INTERGENIC			
SNP_112511_A_428	NW_004519025.1	scaffold4702	428	AA	TT	TT	INTERGENIC			
SNP_112512_A_1072	NW_004519025.1	scaffold4702	1072	CC	AA	AA	INTERGENIC			
SNP_112513_A_1081	NW_004519025.1	scaffold4702	1081	TT	CC	CC	INTERGENIC			
SNP_112514_A_346	NW_004519028.1	scaffold4708	346	TT	GG	GG	INTERGENIC			
SNP_112515_A_708	NW_004519028.1	scaffold4708	708	TT	CC	CC	INTERGENIC			
SNP_112516_A_938	NW_004519028.1	scaffold4708	938	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112517_A_3223	NW_004519028.1	scaffold4708	3223	CC	GG	GG	INTERGENIC			
SNP_112518_A_3428	NW_004519028.1	scaffold4708	3428	CC	TT	TT	INTERGENIC			
SNP_112519_A_3435	NW_004519028.1	scaffold4708	3435	AA	CC	CC	INTERGENIC			
SNP_112520_A_6624	NW_004519028.1	scaffold4708	6624	TT	AA	AA	INTERGENIC			
SNP_112521_A_6882	NW_004519028.1	scaffold4708	6882	TT	AA	AA	INTERGENIC			
SNP_112522_A_14533	NW_004519028.1	scaffold4708	14533	TT	CC	CC	INTERGENIC			
SNP_112523_A_14628	NW_004519028.1	scaffold4708	14628	TT	CC	CC	INTERGENIC			
SNP_112524_A_14687	NW_004519028.1	scaffold4708	14687	CC	GG	GG	INTERGENIC			
SNP_112525_A_14850	NW_004519028.1	scaffold4708	14850	TT	GG	GG	INTERGENIC			
SNP_112526_A_15063	NW_004519028.1	scaffold4708	15063	CC	TT	TT	INTERGENIC			
SNP_112527_A_15172	NW_004519028.1	scaffold4708	15172	CC	TT	TT	INTERGENIC			
SNP_112528_A_17627	NW_004519028.1	scaffold4708	17627	TT	CC	CC	INTERGENIC			
SNP_112529_A_17817	NW_004519028.1	scaffold4708	17817	TT	CC	CC	INTERGENIC			
SNP_112530_A_17830	NW_004519028.1	scaffold4708	17830	TT	AA	AA	INTERGENIC			
SNP_112531_A_19333	NW_004519028.1	scaffold4708	19333	TT	CC	CC	INTERGENIC			
SNP_112532_A_19807	NW_004519028.1	scaffold4708	19807	TT	AA	AA	INTERGENIC			
SNP_112533_A_19966	NW_004519028.1	scaffold4708	19966	TT	AA	AA	INTERGENIC			
SNP_112534_A_20812	NW_004519028.1	scaffold4708	20812	TT	GG	GG	INTERGENIC			
SNP_112535_A_20860	NW_004519028.1	scaffold4708	20860	TT	CC	CC	INTERGENIC			
SNP_112537_A_21034	NW_004519028.1	scaffold4708	21034	AA	GG	GG	INTERGENIC			
SNP_112538_A_21049	NW_004519028.1	scaffold4708	21049	AA	GG	GG	INTERGENIC			
SNP_112539_A_21098	NW_004519028.1	scaffold4708	21098	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112540_A_21500	NW_004519028.1	scaffold4708	21500	AA	GG	GG	INTERGENIC			
SNP_112541_A_21554	NW_004519028.1	scaffold4708	21554	TT	CC	CC	INTERGENIC			
SNP_112542_A_21582	NW_004519028.1	scaffold4708	21582	TT	CC	CC	INTERGENIC			
SNP_112543_A_22095	NW_004519028.1	scaffold4708	22095	TT	CC	CC	INTERGENIC			
SNP_112544_A_22615	NW_004519028.1	scaffold4708	22615	AA	GG	GG	INTERGENIC			
SNP_112545_A_22616	NW_004519028.1	scaffold4708	22616	GG	AA	AA	INTERGENIC			
SNP_112546_A_22625	NW_004519028.1	scaffold4708	22625	GG	AA	AA	INTERGENIC			
SNP_112547_A_28606	NW_004519028.1	scaffold4708	28606	CC	TT	TT	INTERGENIC			
SNP_112548_A_28737	NW_004519028.1	scaffold4708	28737	TT	GG	GG	INTERGENIC			
SNP_112549_A_446	NW_004519031.1	scaffold4711	446	TT	GG	GG	INTERGENIC			
SNP_112550_A_505	NW_004519031.1	scaffold4711	505	AA	TT	TT	INTERGENIC			
SNP_112551_A_1423	NW_004519031.1	scaffold4711	1423	TT	CC	CC	INTERGENIC			
SNP_112552_A_1499	NW_004519031.1	scaffold4711	1499	AA	GG	GG	INTERGENIC			
SNP_112553_A_1838	NW_004519031.1	scaffold4711	1838	CC	AA	AA	INTERGENIC			
SNP_112554_A_2532	NW_004519031.1	scaffold4711	2532	TT	CC	CC	INTERGENIC			
SNP_112555_A_2977	NW_004519031.1	scaffold4711	2977	GG	AA	AA	INTERGENIC			
SNP_112556_A_3005	NW_004519031.1	scaffold4711	3005	CC	GG	GG	INTERGENIC			
SNP_112557_A_3637	NW_004519031.1	scaffold4711	3637	GG	AA	AA	INTERGENIC			
SNP_112558_A_3638	NW_004519031.1	scaffold4711	3638	TT	AA	AA	INTERGENIC			
SNP_112559_A_3653	NW_004519031.1	scaffold4711	3653	TT	GG	GG	INTERGENIC			
SNP_112560_A_4854	NW_004519031.1	scaffold4711	4854	TT	AA	AA	INTERGENIC			
SNP_112562_A_5841	NW_004519031.1	scaffold4711	5841	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112563_A_5845	NW_004519031.1	scaffold4711	5845	GG	TT	TT	INTERGENIC			
SNP_112564_A_5997	NW_004519031.1	scaffold4711	5997	CC	AA	AA	INTERGENIC			
SNP_112565_A_6115	NW_004519031.1	scaffold4711	6115	GG	TT	TT	INTERGENIC			
SNP_112567_A_6510	NW_004519031.1	scaffold4711	6510	CC	GG	GG	INTERGENIC			
SNP_112568_A_6560	NW_004519031.1	scaffold4711	6560	TT	AA	AA	INTERGENIC			
SNP_112569_A_8226	NW_004519031.1	scaffold4711	8226	CC	TT	TT	INTERGENIC			
SNP_112570_A_8227	NW_004519031.1	scaffold4711	8227	AA	GG	GG	INTERGENIC			
SNP_112571_A_8998	NW_004519031.1	scaffold4711	8998	TT	GG	GG	INTERGENIC			
SNP_112573_A_9284	NW_004519031.1	scaffold4711	9284	GG	CC	CC	INTERGENIC			
SNP_112574_A_9292	NW_004519031.1	scaffold4711	9292	TT	GG	GG	INTERGENIC			
SNP_112575_A_9416	NW_004519031.1	scaffold4711	9416	AA	GG	GG	INTERGENIC			
SNP_112576_A_9512	NW_004519031.1	scaffold4711	9512	CC	GG	GG	INTERGENIC			
SNP_112577_A_9551	NW_004519031.1	scaffold4711	9551	AA	GG	GG	INTERGENIC			
SNP_112578_A_9557	NW_004519031.1	scaffold4711	9557	TT	CC	CC	INTERGENIC			
SNP_112579_A_10907	NW_004519031.1	scaffold4711	10907	CC	TT	TT	INTERGENIC			
SNP_112581_A_554	NW_004519037.1	scaffold4718	554	TT	GG	GG	INTERGENIC			
SNP_112582_A_985	NW_004519039.1	scaffold4720	985	TT	GG	GG	INTERGENIC			
SNP_112583_A_239	NW_004519044.1	scaffold4726	239	GG	TT	TT	INTERGENIC			
SNP_112585_A_546	NW_004519044.1	scaffold4726	546	TT	CC	CC	INTERGENIC			
SNP_112586_A_550	NW_004519044.1	scaffold4726	550	AA	TT	TT	INTERGENIC			
SNP_112587_A_566	NW_004519044.1	scaffold4726	566	CC	TT	TT	INTERGENIC			
SNP_112588_A_664	NW_004519048.1	scaffold4731	664	TT	CC	CC	INTRON	101504488	uncharacterized LOC101504488	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112589_A_852	NW_004519048.1	scaffold4731	852	TT	AA	AA	SYNONYMOUS_CODING	101504488	uncharacterized LOC101504488
SNP_112590_A_924	NW_004519048.1	scaffold4731	924	CC	TT	TT	SYNONYMOUS_CODING	101504488	uncharacterized LOC101504488
SNP_112591_A_1215	NW_004519048.1	scaffold4731	1215	GG	CC	CC	URR	101504488	uncharacterized LOC101504488
SNP_112592_A_180	NW_004519049.1	scaffold4733	180	TT	CC	CC	INTERGENIC		
SNP_112593_A_240	NW_004519049.1	scaffold4733	240	TT	CC	CC	INTERGENIC		
SNP_112594_A_441	NW_004519049.1	scaffold4733	441	TT	CC	CC	INTERGENIC		
SNP_112595_A_457	NW_004519049.1	scaffold4733	457	CC	TT	TT	INTERGENIC		
SNP_112597_A_543	NW_004519049.1	scaffold4733	543	AA	GG	GG	INTERGENIC		
SNP_112598_A_624	NW_004519049.1	scaffold4733	624	CC	TT	TT	INTERGENIC		
SNP_112600_A_1911	NW_004519055.1	scaffold4740	1911	CC	TT	TT	INTERGENIC		
SNP_112601_A_1975	NW_004519055.1	scaffold4740	1975	AA	TT	TT	INTERGENIC		
SNP_112602_A_2047	NW_004519055.1	scaffold4740	2047	GG	AA	AA	INTERGENIC		
SNP_112603_A_2131	NW_004519055.1	scaffold4740	2131	AA	GG	GG	INTERGENIC		
SNP_112604_A_2624	NW_004519055.1	scaffold4740	2624	AA	CC	CC	INTERGENIC		
SNP_112605_A_2688	NW_004519055.1	scaffold4740	2688	TT	AA	AA	INTERGENIC		
SNP_112606_A_2737	NW_004519055.1	scaffold4740	2737	AA	GG	GG	INTERGENIC		
SNP_112607_A_2811	NW_004519055.1	scaffold4740	2811	GG	TT	TT	INTERGENIC		
SNP_112608_A_2825	NW_004519055.1	scaffold4740	2825	CC	GG	GG	INTERGENIC		
SNP_112609_A_2970	NW_004519055.1	scaffold4740	2970	GG	AA	AA	INTERGENIC		
SNP_112610_A_4816	NW_004519055.1	scaffold4740	4816	AA	TT	TT	INTERGENIC		
SNP_112611_A_11247	NW_004519055.1	scaffold4740	11247	TT	AA	AA	INTERGENIC		
SNP_112612_A_11643	NW_004519055.1	scaffold4740	11643	AA	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112613_A_11672	NW_004519055.1	scaffold4740	11672	TT	CC	CC	INTERGENIC		
SNP_112614_A_11756	NW_004519055.1	scaffold4740	11756	CC	TT	TT	INTERGENIC		
SNP_112615_A_11825	NW_004519055.1	scaffold4740	11825	TT	AA	AA	INTERGENIC		
SNP_112616_A_20131	NW_004519057.1	scaffold4745	20131	TT	CC	CC	INTERGENIC		
SNP_112617_A_22542	NW_004519057.1	scaffold4745	22542	GG	AA	AA	INTERGENIC		
SNP_112618_A_22570	NW_004519057.1	scaffold4745	22570	AA	GG	GG	INTERGENIC		
SNP_112619_A_22578	NW_004519057.1	scaffold4745	22578	TT	CC	CC	INTERGENIC		
SNP_112620_A_429	NW_004519065.1	scaffold4759	429	CC	TT	TT	DRR	101505018	putative cysteine proteinase inhibitor 7
SNP_112621_A_452	NW_004519065.1	scaffold4759	452	CC	TT	TT	DRR	101505018	putative cysteine proteinase inhibitor 7
SNP_112623_A_30697	NW_004519065.1	scaffold4759	30697	TT	GG	GG	INTERGENIC		
SNP_112625_A_4932	NW_004519071.1	scaffold4769	4932	AA	CC	CC	INTERGENIC		
SNP_112627_A_5492	NW_004519071.1	scaffold4769	5492	AA	CC	CC	INTERGENIC		
SNP_112628_A_5498	NW_004519071.1	scaffold4769	5498	TT	AA	AA	INTERGENIC		
SNP_112629_A_703	NW_004519072.1	scaffold4771	703	TT	GG	GG	INTERGENIC		
SNP_112630_A_943	NW_004519072.1	scaffold4771	943	AA	CC	CC	INTERGENIC		
SNP_112631_A_955	NW_004519072.1	scaffold4771	955	TT	GG	GG	INTERGENIC		
SNP_112632_A_4485	NW_004519072.1	scaffold4771	4485	CC	TT	TT	INTERGENIC		
SNP_112633_A_501	NW_004519073.1	scaffold4773	501	TT	CC	CC	INTERGENIC		
SNP_112634_A_622	NW_004519073.1	scaffold4773	622	AA	GG	GG	INTERGENIC		
SNP_112635_A_728	NW_004519073.1	scaffold4773	728	TT	CC	CC	INTERGENIC		
SNP_112636_A_760	NW_004519073.1	scaffold4773	760	TT	CC	CC	INTERGENIC		
SNP_112637_A_1032	NW_004519073.1	scaffold4773	1032	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112638_A_1285	NW_004519073.1	scaffold4773	1285	TT	CC	CC	INTERGENIC			
SNP_112639_A_1864	NW_004519073.1	scaffold4773	1864	AA	GG	GG	INTERGENIC			
SNP_112642_A_13184	NW_004519073.1	scaffold4773	13184	CC	AA	AA	INTERGENIC			
SNP_112643_A_13257	NW_004519073.1	scaffold4773	13257	GG	AA	AA	INTERGENIC			
SNP_112645_A_14035	NW_004519073.1	scaffold4773	14035	GG	AA	AA	INTERGENIC			
SNP_112646_A_14095	NW_004519073.1	scaffold4773	14095	GG	TT	TT	INTERGENIC			
SNP_112647_A_14098	NW_004519073.1	scaffold4773	14098	AA	TT	TT	INTERGENIC			
SNP_112648_A_14110	NW_004519073.1	scaffold4773	14110	TT	AA	AA	INTERGENIC			
SNP_112649_A_14661	NW_004519073.1	scaffold4773	14661	CC	GG	GG	INTERGENIC			
SNP_112650_A_14747	NW_004519073.1	scaffold4773	14747	AA	CC	CC	INTERGENIC			
SNP_112652_A_15025	NW_004519073.1	scaffold4773	15025	AA	GG	GG	INTERGENIC			
SNP_112653_A_15085	NW_004519073.1	scaffold4773	15085	CC	AA	AA	INTERGENIC			
SNP_112654_A_15417	NW_004519073.1	scaffold4773	15417	AA	GG	GG	INTERGENIC			
SNP_112655_A_15992	NW_004519073.1	scaffold4773	15992	GG	AA	AA	INTERGENIC			
SNP_112656_A_16145	NW_004519073.1	scaffold4773	16145	TT	CC	CC	INTERGENIC			
SNP_112657_A_16265	NW_004519073.1	scaffold4773	16265	CC	TT	TT	INTERGENIC			
SNP_112658_A_16688	NW_004519073.1	scaffold4773	16688	GG	TT	TT	INTERGENIC			
SNP_112659_A_16708	NW_004519073.1	scaffold4773	16708	CC	AA	AA	INTERGENIC			
SNP_112661_A_16945	NW_004519073.1	scaffold4773	16945	AA	GG	GG	INTERGENIC			
SNP_112662_A_17246	NW_004519073.1	scaffold4773	17246	CC	TT	TT	INTERGENIC			
SNP_112663_A_17259	NW_004519073.1	scaffold4773	17259	CC	GG	GG	INTERGENIC			
SNP_112664_A_17570	NW_004519073.1	scaffold4773	17570	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112665_A_17779	NW_004519073.1	scaffold4773	17779	AA	CC	CC	INTERGENIC			
SNP_112666_A_17995	NW_004519073.1	scaffold4773	17995	CC	TT	TT	INTERGENIC			
SNP_112667_A_18204	NW_004519073.1	scaffold4773	18204	CC	AA	AA	INTERGENIC			
SNP_112669_A_18557	NW_004519073.1	scaffold4773	18557	TT	CC	CC	INTERGENIC			
SNP_112670_A_18643	NW_004519073.1	scaffold4773	18643	CC	TT	TT	INTERGENIC			
SNP_112671_A_18649	NW_004519073.1	scaffold4773	18649	CC	TT	TT	INTERGENIC			
SNP_112672_A_18664	NW_004519073.1	scaffold4773	18664	GG	AA	AA	INTERGENIC			
SNP_112673_A_18691	NW_004519073.1	scaffold4773	18691	GG	AA	AA	INTERGENIC			
SNP_112674_A_18880	NW_004519073.1	scaffold4773	18880	AA	GG	GG	INTERGENIC			
SNP_112676_A_19591	NW_004519073.1	scaffold4773	19591	AA	TT	TT	INTERGENIC			
SNP_112678_A_19763	NW_004519073.1	scaffold4773	19763	GG	AA	AA	INTERGENIC			
SNP_112679_A_19785	NW_004519073.1	scaffold4773	19785	TT	CC	CC	INTERGENIC			
SNP_112681_A_20057	NW_004519073.1	scaffold4773	20057	TT	CC	CC	INTERGENIC			
SNP_112682_A_20841	NW_004519073.1	scaffold4773	20841	TT	CC	CC	INTERGENIC			
SNP_112683_A_21291	NW_004519073.1	scaffold4773	21291	AA	TT	TT	INTERGENIC			
SNP_112684_A_21689	NW_004519073.1	scaffold4773	21689	CC	TT	TT	INTERGENIC			
SNP_112685_A_21696	NW_004519073.1	scaffold4773	21696	CC	AA	AA	INTERGENIC			
SNP_112686_A_22993	NW_004519073.1	scaffold4773	22993	CC	TT	TT	INTERGENIC			
SNP_112687_A_23810	NW_004519073.1	scaffold4773	23810	CC	TT	TT	INTERGENIC			
SNP_112688_A_24794	NW_004519073.1	scaffold4773	24794	AA	GG	GG	INTERGENIC			
SNP_112689_A_25298	NW_004519073.1	scaffold4773	25298	TT	CC	CC	INTERGENIC			
SNP_112690_A_25556	NW_004519073.1	scaffold4773	25556	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112691_A_25565	NW_004519073.1	scaffold4773	25565	TT	AA	AA	INTERGENIC			
SNP_112692_A_25570	NW_004519073.1	scaffold4773	25570	GG	AA	AA	INTERGENIC			
SNP_112693_A_25628	NW_004519073.1	scaffold4773	25628	AA	GG	GG	INTERGENIC			
SNP_112694_A_25637	NW_004519073.1	scaffold4773	25637	AA	CC	CC	INTERGENIC			
SNP_112695_A_26568	NW_004519073.1	scaffold4773	26568	GG	AA	AA	INTERGENIC			
SNP_112696_A_27426	NW_004519073.1	scaffold4773	27426	AA	CC	CC	INTERGENIC			
SNP_112697_A_27608	NW_004519073.1	scaffold4773	27608	AA	TT	TT	INTERGENIC			
SNP_112698_A_27656	NW_004519073.1	scaffold4773	27656	TT	CC	CC	INTERGENIC			
SNP_112699_A_27733	NW_004519073.1	scaffold4773	27733	TT	CC	CC	INTERGENIC			
SNP_112700_A_27896	NW_004519073.1	scaffold4773	27896	GG	AA	AA	INTERGENIC			
SNP_112701_A_27903	NW_004519073.1	scaffold4773	27903	CC	AA	AA	INTERGENIC			
SNP_112702_A_28719	NW_004519073.1	scaffold4773	28719	AA	GG	GG	INTERGENIC			
SNP_112703_A_28786	NW_004519073.1	scaffold4773	28786	GG	TT	TT	INTERGENIC			
SNP_112704_A_29495	NW_004519073.1	scaffold4773	29495	GG	AA	AA	INTERGENIC			
SNP_112706_A_29926	NW_004519073.1	scaffold4773	29926	GG	AA	AA	INTERGENIC			
SNP_112708_A_30364	NW_004519073.1	scaffold4773	30364	GG	AA	AA	INTERGENIC			
SNP_112709_A_30837	NW_004519073.1	scaffold4773	30837	CC	TT	TT	INTERGENIC			
SNP_112710_A_31049	NW_004519073.1	scaffold4773	31049	CC	TT	TT	INTERGENIC			
SNP_112711_A_32161	NW_004519073.1	scaffold4773	32161	CC	TT	TT	INTERGENIC			
SNP_112713_A_33758	NW_004519073.1	scaffold4773	33758	AA	GG	GG	INTERGENIC			
SNP_112714_A_33862	NW_004519073.1	scaffold4773	33862	CC	AA	AA	INTERGENIC			
SNP_112715_A_33871	NW_004519073.1	scaffold4773	33871	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112716_A_33958	NW_004519073.1	scaffold4773	33958	AA	GG	GG	INTERGENIC			
SNP_112717_A_35279	NW_004519073.1	scaffold4773	35279	CC	TT	TT	INTERGENIC			
SNP_112718_A_35427	NW_004519073.1	scaffold4773	35427	GG	AA	AA	INTERGENIC			
SNP_112719_A_35463	NW_004519073.1	scaffold4773	35463	TT	CC	CC	INTERGENIC			
SNP_112720_A_35523	NW_004519073.1	scaffold4773	35523	TT	CC	CC	INTERGENIC			
SNP_112721_A_35946	NW_004519073.1	scaffold4773	35946	GG	AA	AA	INTERGENIC			
SNP_112722_A_36038	NW_004519073.1	scaffold4773	36038	GG	AA	AA	INTERGENIC			
SNP_112725_A_36244	NW_004519073.1	scaffold4773	36244	CC	TT	TT	INTERGENIC			
SNP_112726_A_36657	NW_004519073.1	scaffold4773	36657	CC	AA	AA	INTERGENIC			
SNP_112727_A_36685	NW_004519073.1	scaffold4773	36685	GG	AA	AA	INTERGENIC			
SNP_112728_A_37074	NW_004519073.1	scaffold4773	37074	TT	CC	CC	INTERGENIC			
SNP_112729_A_37237	NW_004519073.1	scaffold4773	37237	GG	AA	AA	INTERGENIC			
SNP_112730_A_37266	NW_004519073.1	scaffold4773	37266	GG	AA	AA	INTERGENIC			
SNP_112731_A_52463	NW_004519073.1	scaffold4773	52463	AA	GG	GG	INTERGENIC			
SNP_112733_A_52898	NW_004519073.1	scaffold4773	52898	TT	CC	CC	INTERGENIC			
SNP_112734_A_53022	NW_004519073.1	scaffold4773	53022	AA	GG	GG	INTERGENIC			
SNP_112735_A_54041	NW_004519073.1	scaffold4773	54041	GG	TT	TT	INTERGENIC			
SNP_112736_A_54525	NW_004519073.1	scaffold4773	54525	TT	CC	CC	INTERGENIC			
SNP_112737_A_54619	NW_004519073.1	scaffold4773	54619	AA	TT	TT	INTERGENIC			
SNP_112738_A_54758	NW_004519073.1	scaffold4773	54758	GG	AA	AA	INTERGENIC			
SNP_112739_A_54789	NW_004519073.1	scaffold4773	54789	AA	GG	GG	INTERGENIC			
SNP_112740_A_55006	NW_004519073.1	scaffold4773	55006	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112741_A_55029	NW_004519073.1	scaffold4773	55029	CC	TT	TT	INTERGENIC			
SNP_112742_A_55036	NW_004519073.1	scaffold4773	55036	TT	CC	CC	INTERGENIC			
SNP_112743_A_55065	NW_004519073.1	scaffold4773	55065	TT	CC	CC	INTERGENIC			
SNP_112744_A_55103	NW_004519073.1	scaffold4773	55103	CC	AA	AA	INTERGENIC			
SNP_112746_A_55665	NW_004519073.1	scaffold4773	55665	CC	AA	AA	INTERGENIC			
SNP_112747_A_58288	NW_004519073.1	scaffold4773	58288	AA	TT	TT	INTERGENIC			
SNP_112748_A_58326	NW_004519073.1	scaffold4773	58326	CC	AA	AA	INTERGENIC			
SNP_112749_A_441	NW_004519074.1	scaffold4775	441	TT	GG	GG	INTERGENIC			
SNP_112750_A_471	NW_004519074.1	scaffold4775	471	TT	GG	GG	INTERGENIC			
SNP_112752_A_34975	NW_004519076.1	scaffold4777	34975	TT	GG	GG	INTERGENIC			
SNP_112753_A_48207	NW_004519076.1	scaffold4777	48207	AA	GG	GG	INTERGENIC			
SNP_112754_A_48231	NW_004519076.1	scaffold4777	48231	TT	CC	CC	INTERGENIC			
SNP_112755_A_48250	NW_004519076.1	scaffold4777	48250	CC	AA	AA	INTERGENIC			
SNP_112756_A_48280	NW_004519076.1	scaffold4777	48280	TT	CC	CC	INTERGENIC			
SNP_112757_A_97922	NW_004519076.1	scaffold4777	97922	TT	CC	CC	INTERGENIC			
SNP_112758_A_112496	NW_004519076.1	scaffold4777	112496	AA	CC	CC	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112759_A_112507	NW_004519076.1	scaffold4777	112507	AA	CC	CC	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112760_A_112792	NW_004519076.1	scaffold4777	112792	GG	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112761_A_112886	NW_004519076.1	scaffold4777	112886	CC	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112762_A_113115	NW_004519076.1	scaffold4777	113115	CC	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112763_A_113447	NW_004519076.1	scaffold4777	113447	AA	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	
SNP_112764_A_113547	NW_004519076.1	scaffold4777	113547	AA	GG	GG	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112765_A_113601	NW_004519076.1	scaffold4777	113601	CC	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112766_A_113923	NW_004519076.1	scaffold4777	113923	CC	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112767_A_114190	NW_004519076.1	scaffold4777	114190	CC	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112768_A_114267	NW_004519076.1	scaffold4777	114267	AA	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112769_A_114274	NW_004519076.1	scaffold4777	114274	GG	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112770_A_117869	NW_004519076.1	scaffold4777	117869	CC	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112771_A_118507	NW_004519076.1	scaffold4777	118507	CC	TT	TT	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112772_A_118549	NW_004519076.1	scaffold4777	118549	GG	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112773_A_118569	NW_004519076.1	scaffold4777	118569	TT	CC	CC	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112774_A_118683	NW_004519076.1	scaffold4777	118683	GG	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112776_A_118769	NW_004519076.1	scaffold4777	118769	TT	CC	CC	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112777_A_119123	NW_004519076.1	scaffold4777	119123	TT	AA	AA	INTRON	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112778_A_119329	NW_004519076.1	scaffold4777	119329	GG	AA	AA	NON_SYNONYMOUS_CODING	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112779_A_119356	NW_004519076.1	scaffold4777	119356	GG	AA	AA	NON_SYNONYMOUS_CODING	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112780_A_119368	NW_004519076.1	scaffold4777	119368	CC	AA	AA	NON_SYNONYMOUS_CODING	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112781_A_119372	NW_004519076.1	scaffold4777	119372	CC	TT	TT	SYNONYMOUS_CODING	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112782_A_119558	NW_004519076.1	scaffold4777	119558	GG	CC	CC	DRR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112783_A_119589	NW_004519076.1	scaffold4777	119589	AA	TT	TT	URR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112784_A_119620	NW_004519076.1	scaffold4777	119620	GG	CC	CC	URR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112785_A_119638	NW_004519076.1	scaffold4777	119638	AA	CC	CC	URR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112786_A_119735	NW_004519076.1	scaffold4777	119735	TT	CC	CC	URR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like
SNP_112787_A_119762	NW_004519076.1	scaffold4777	119762	TT	CC	CC	URR	101508451	suppressor of mec-8 and unc-52 protein homolog 1-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112788_A_538	NW_004519079.1	scaffold4781	538	TT	CC	CC	INTERGENIC			
SNP_112789_A_1434	NW_004519080.1	scaffold4782	1434	AA	GG	GG	INTERGENIC			
SNP_112790_A_1554	NW_004519080.1	scaffold4782	1554	GG	TT	TT	INTERGENIC			
SNP_112791_A_1779	NW_004519080.1	scaffold4782	1779	TT	CC	CC	INTERGENIC			
SNP_112792_A_1782	NW_004519080.1	scaffold4782	1782	CC	TT	TT	INTERGENIC			
SNP_112793_A_1788	NW_004519080.1	scaffold4782	1788	GG	AA	AA	INTERGENIC			
SNP_112794_A_1834	NW_004519080.1	scaffold4782	1834	CC	GG	GG	INTERGENIC			
SNP_112795_A_181	NW_004519082.1	scaffold4784	181	AA	TT	TT	INTERGENIC			
SNP_112796_A_224	NW_004519082.1	scaffold4784	224	GG	AA	AA	INTERGENIC			
SNP_112797_A_247	NW_004519082.1	scaffold4784	247	CC	AA	AA	INTERGENIC			
SNP_112798_A_253	NW_004519082.1	scaffold4784	253	GG	AA	AA	INTERGENIC			
SNP_112799_A_298	NW_004519082.1	scaffold4784	298	TT	CC	CC	INTERGENIC			
SNP_112800_A_313	NW_004519082.1	scaffold4784	313	AA	GG	GG	INTERGENIC			
SNP_112801_A_441	NW_004519082.1	scaffold4784	441	CC	TT	TT	INTERGENIC			
SNP_112802_A_571	NW_004519082.1	scaffold4784	571	GG	AA	AA	INTERGENIC			
SNP_112803_A_616	NW_004519082.1	scaffold4784	616	GG	AA	AA	INTERGENIC			
SNP_112804_A_626	NW_004519082.1	scaffold4784	626	CC	TT	TT	INTERGENIC			
SNP_112805_A_638	NW_004519082.1	scaffold4784	638	AA	GG	GG	INTERGENIC			
SNP_112807_A_865	NW_004519082.1	scaffold4784	865	TT	CC	CC	INTERGENIC			
SNP_112808_A_1001	NW_004519082.1	scaffold4784	1001	TT	AA	AA	INTERGENIC			
SNP_112809_A_2300	NW_004519083.1	scaffold4787	2300	GG	CC	CC	INTERGENIC			
SNP_112810_A_340	NW_004519087.1	scaffold4791	340	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112811_A_341	NW_004519087.1	scaffold4791	341	CC	AA	AA	INTERGENIC			
SNP_112812_A_342	NW_004519087.1	scaffold4791	342	CC	TT	TT	INTERGENIC			
SNP_112813_A_346	NW_004519087.1	scaffold4791	346	TT	CC	CC	INTERGENIC			
SNP_112814_A_666	NW_004519087.1	scaffold4791	666	AA	GG	GG	INTERGENIC			
SNP_112815_A_1045	NW_004519088.1	scaffold4792	1045	CC	AA	AA	INTERGENIC			
SNP_112816_A_5362	NW_004519088.1	scaffold4792	5362	AA	CC	CC	INTERGENIC			
SNP_112817_A_5365	NW_004519088.1	scaffold4792	5365	CC	TT	TT	INTERGENIC			
SNP_112818_A_5366	NW_004519088.1	scaffold4792	5366	TT	AA	AA	INTERGENIC			
SNP_112819_A_5786	NW_004519088.1	scaffold4792	5786	TT	GG	GG	INTERGENIC			
SNP_112820_A_64	NW_004519090.1	scaffold4795	64	AA	TT	TT	INTERGENIC			
SNP_112821_A_285	NW_004519092.1	scaffold4797	285	AA	GG	GG	INTERGENIC			
SNP_112822_A_5596	NW_004519092.1	scaffold4797	5596	AA	TT	TT	INTERGENIC			
SNP_112823_A_6459	NW_004519092.1	scaffold4797	6459	TT	CC	CC	INTERGENIC			
SNP_112824_A_6668	NW_004519092.1	scaffold4797	6668	AA	GG	GG	INTERGENIC			
SNP_112825_A_2128	NW_004519093.1	scaffold4798	2128	TT	GG	GG	INTERGENIC			
SNP_112826_A_723	NW_004519096.1	scaffold4804	723	AA	TT	TT	INTERGENIC			
SNP_112827_A_789	NW_004519096.1	scaffold4804	789	AA	TT	TT	INTERGENIC			
SNP_112828_A_793	NW_004519096.1	scaffold4804	793	TT	GG	GG	INTERGENIC			
SNP_112829_A_854	NW_004519096.1	scaffold4804	854	GG	CC	CC	INTERGENIC			
SNP_112831_A_1027	NW_004519096.1	scaffold4804	1027	GG	AA	AA	INTERGENIC			
SNP_112832_A_1028	NW_004519096.1	scaffold4804	1028	GG	AA	AA	INTERGENIC			
SNP_112833_A_1133	NW_004519096.1	scaffold4804	1133	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112834_A_1159	NW_004519096.1	scaffold4804	1159	AA	CC	CC	INTERGENIC			
SNP_112835_A_1832	NW_004519096.1	scaffold4804	1832	CC	GG	GG	INTERGENIC			
SNP_112836_A_1886	NW_004519096.1	scaffold4804	1886	CC	GG	GG	INTERGENIC			
SNP_112837_A_1888	NW_004519096.1	scaffold4804	1888	CC	TT	TT	INTERGENIC			
SNP_112839_A_3049	NW_004519096.1	scaffold4804	3049	CC	GG	GG	INTERGENIC			
SNP_112840_A_3051	NW_004519096.1	scaffold4804	3051	TT	AA	AA	INTERGENIC			
SNP_112841_A_3056	NW_004519096.1	scaffold4804	3056	AA	CC	CC	INTERGENIC			
SNP_112842_A_3058	NW_004519096.1	scaffold4804	3058	TT	CC	CC	INTERGENIC			
SNP_112843_A_3117	NW_004519096.1	scaffold4804	3117	AA	TT	TT	INTERGENIC			
SNP_112844_A_3264	NW_004519096.1	scaffold4804	3264	TT	AA	AA	INTERGENIC			
SNP_112845_A_3419	NW_004519096.1	scaffold4804	3419	AA	GG	GG	INTERGENIC			
SNP_112846_A_3519	NW_004519096.1	scaffold4804	3519	AA	GG	GG	INTERGENIC			
SNP_112847_A_8727	NW_004519096.1	scaffold4804	8727	GG	CC	CC	INTERGENIC			
SNP_112848_A_8845	NW_004519096.1	scaffold4804	8845	TT	AA	AA	INTERGENIC			
SNP_112849_A_8859	NW_004519096.1	scaffold4804	8859	TT	AA	AA	INTERGENIC			
SNP_112851_A_9109	NW_004519096.1	scaffold4804	9109	CC	TT	TT	INTERGENIC			
SNP_112852_A_9132	NW_004519096.1	scaffold4804	9132	AA	TT	TT	INTERGENIC			
SNP_112854_A_9535	NW_004519096.1	scaffold4804	9535	TT	AA	AA	INTERGENIC			
SNP_112855_A_9874	NW_004519096.1	scaffold4804	9874	GG	CC	CC	INTERGENIC			
SNP_112856_A_10082	NW_004519096.1	scaffold4804	10082	AA	CC	CC	INTERGENIC			
SNP_112857_A_10227	NW_004519096.1	scaffold4804	10227	AA	CC	CC	INTERGENIC			
SNP_112858_A_10531	NW_004519096.1	scaffold4804	10531	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_112859_A_10540	NW_004519096.1	scaffold4804	10540	CC	GG	GG	INTERGENIC		
SNP_112860_A_10545	NW_004519096.1	scaffold4804	10545	CC	TT	TT	INTERGENIC		
SNP_112861_A_10553	NW_004519096.1	scaffold4804	10553	AA	CC	CC	INTERGENIC		
SNP_112862_A_11809	NW_004519096.1	scaffold4804	11809	CC	TT	TT	INTERGENIC		
SNP_112863_A_11812	NW_004519096.1	scaffold4804	11812	GG	AA	AA	INTERGENIC		
SNP_112864_A_11820	NW_004519096.1	scaffold4804	11820	TT	GG	GG	INTERGENIC		
SNP_112865_A_11888	NW_004519096.1	scaffold4804	11888	AA	CC	CC	INTERGENIC		
SNP_112866_A_11903	NW_004519096.1	scaffold4804	11903	AA	GG	GG	INTERGENIC		
SNP_112867_A_11947	NW_004519096.1	scaffold4804	11947	AA	CC	CC	INTERGENIC		
SNP_112868_A_17111	NW_004519096.1	scaffold4804	17111	GG	TT	TT	INTERGENIC		
SNP_112869_A_17235	NW_004519096.1	scaffold4804	17235	AA	GG	GG	INTERGENIC		
SNP_112870_A_17385	NW_004519096.1	scaffold4804	17385	GG	AA	AA	INTERGENIC		
SNP_112871_A_17506	NW_004519096.1	scaffold4804	17506	TT	CC	CC	INTERGENIC		
SNP_112872_A_17793	NW_004519096.1	scaffold4804	17793	AA	GG	GG	INTERGENIC		
SNP_112873_A_17838	NW_004519096.1	scaffold4804	17838	GG	CC	CC	INTERGENIC		
SNP_112874_A_17870	NW_004519096.1	scaffold4804	17870	CC	TT	TT	INTERGENIC		
SNP_112875_A_5749	NW_004519097.1	scaffold4805	5749	TT	CC	CC	INTERGENIC		
SNP_112876_A_10948	NW_004519097.1	scaffold4805	10948	AA	GG	GG	URR	101509072	uncharacterized LOC101509072
SNP_112877_A_11030	NW_004519097.1	scaffold4805	11030	TT	CC	CC	URR	101509072	uncharacterized LOC101509072
SNP_112878_A_11061	NW_004519097.1	scaffold4805	11061	TT	CC	CC	URR	101509072	uncharacterized LOC101509072
SNP_112879_A_11278	NW_004519097.1	scaffold4805	11278	AA	TT	TT	URR	101509072	uncharacterized LOC101509072
SNP_112880_A_64	NW_004519100.1	scaffold4808	64	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112881_A_508	NW_004519100.1	scaffold4808	508	GG	CC	CC	INTERGENIC			
SNP_112882_A_668	NW_004519100.1	scaffold4808	668	AA	CC	CC	INTERGENIC			
SNP_112883_A_747	NW_004519100.1	scaffold4808	747	GG	TT	TT	INTERGENIC			
SNP_112884_A_760	NW_004519100.1	scaffold4808	760	TT	CC	CC	INTERGENIC			
SNP_112886_A_922	NW_004519100.1	scaffold4808	922	TT	GG	GG	INTERGENIC			
SNP_112888_A_725	NW_004519106.1	scaffold4817	725	CC	AA	AA	INTERGENIC			
SNP_112889_A_781	NW_004519106.1	scaffold4817	781	CC	TT	TT	INTERGENIC			
SNP_112890_A_876	NW_004519106.1	scaffold4817	876	TT	AA	AA	INTERGENIC			
SNP_112891_A_878	NW_004519106.1	scaffold4817	878	CC	TT	TT	INTERGENIC			
SNP_112892_A_1781	NW_004519108.1	scaffold4820	1781	TT	CC	CC	INTERGENIC			
SNP_112894_A_1741	NW_004519115.1	scaffold4828	1741	AA	GG	GG	INTERGENIC			
SNP_112895_A_1742	NW_004519115.1	scaffold4828	1742	TT	CC	CC	INTERGENIC			
SNP_112896_A_1333	NW_004519116.1	scaffold4829	1333	GG	AA	AA	INTERGENIC			
SNP_112897_A_1380	NW_004519116.1	scaffold4829	1380	GG	AA	AA	INTERGENIC			
SNP_112898_A_1387	NW_004519116.1	scaffold4829	1387	TT	AA	AA	INTERGENIC			
SNP_112899_A_1437	NW_004519116.1	scaffold4829	1437	AA	GG	GG	INTERGENIC			
SNP_112900_A_1518	NW_004519116.1	scaffold4829	1518	CC	TT	TT	INTERGENIC			
SNP_112901_A_1551	NW_004519116.1	scaffold4829	1551	TT	GG	GG	INTERGENIC			
SNP_112902_A_5960	NW_004519116.1	scaffold4829	5960	TT	GG	GG	INTERGENIC			
SNP_112903_A_6211	NW_004519116.1	scaffold4829	6211	TT	GG	GG	INTERGENIC			
SNP_112904_A_6231	NW_004519116.1	scaffold4829	6231	GG	AA	AA	INTERGENIC			
SNP_112906_A_6366	NW_004519116.1	scaffold4829	6366	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112907_A_6382	NW_004519116.1	scaffold4829	6382	GG	AA	AA	INTERGENIC			
SNP_112908_A_6420	NW_004519116.1	scaffold4829	6420	TT	CC	CC	INTERGENIC			
SNP_112909_A_6456	NW_004519116.1	scaffold4829	6456	CC	GG	GG	INTERGENIC			
SNP_112911_A_6654	NW_004519116.1	scaffold4829	6654	TT	AA	AA	INTERGENIC			
SNP_112912_A_6666	NW_004519116.1	scaffold4829	6666	CC	GG	GG	INTERGENIC			
SNP_112913_A_6693	NW_004519116.1	scaffold4829	6693	TT	CC	CC	INTERGENIC			
SNP_112914_A_6699	NW_004519116.1	scaffold4829	6699	CC	TT	TT	INTERGENIC			
SNP_112915_A_6734	NW_004519116.1	scaffold4829	6734	TT	CC	CC	INTERGENIC			
SNP_112916_A_6751	NW_004519116.1	scaffold4829	6751	CC	TT	TT	INTERGENIC			
SNP_112918_A_8277	NW_004519116.1	scaffold4829	8277	AA	GG	GG	INTERGENIC			
SNP_112919_A_8285	NW_004519116.1	scaffold4829	8285	CC	TT	TT	INTERGENIC			
SNP_112920_A_8328	NW_004519116.1	scaffold4829	8328	TT	AA	AA	INTERGENIC			
SNP_112921_A_8471	NW_004519116.1	scaffold4829	8471	AA	CC	CC	INTERGENIC			
SNP_112922_A_580	NW_004519118.1	scaffold4833	580	AA	GG	GG	INTERGENIC			
SNP_112923_A_675	NW_004519118.1	scaffold4833	675	TT	AA	AA	INTERGENIC			
SNP_112925_A_1060	NW_004519118.1	scaffold4833	1060	AA	CC	CC	INTERGENIC			
SNP_112926_A_1187	NW_004519118.1	scaffold4833	1187	AA	TT	TT	INTERGENIC			
SNP_112927_A_3275	NW_004519118.1	scaffold4833	3275	TT	CC	CC	INTERGENIC			
SNP_112928_A_3484	NW_004519118.1	scaffold4833	3484	CC	AA	AA	INTERGENIC			
SNP_112929_A_3499	NW_004519118.1	scaffold4833	3499	CC	AA	AA	INTERGENIC			
SNP_112930_A_3755	NW_004519118.1	scaffold4833	3755	GG	TT	TT	INTERGENIC			
SNP_112933_A_3946	NW_004519118.1	scaffold4833	3946	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112934_A_5851	NW_004519118.1	scaffold4833	5851	GG	TT	TT	INTERGENIC			
SNP_112935_A_279	NW_004519122.1	scaffold4837	279	CC	TT	TT	INTERGENIC			
SNP_112937_A_13249	NW_004519122.1	scaffold4837	13249	GG	CC	CC	INTERGENIC			
SNP_112938_A_5798	NW_004519126.1	scaffold4846	5798	TT	CC	CC	INTERGENIC			
SNP_112939_A_5799	NW_004519126.1	scaffold4846	5799	TT	AA	AA	INTERGENIC			
SNP_112940_A_5886	NW_004519126.1	scaffold4846	5886	GG	CC	CC	INTERGENIC			
SNP_112941_A_6285	NW_004519126.1	scaffold4846	6285	GG	CC	CC	INTERGENIC			
SNP_112942_A_2204	NW_004519130.1	scaffold4850	2204	AA	GG	GG	INTERGENIC			
SNP_112943_A_2211	NW_004519130.1	scaffold4850	2211	AA	GG	GG	INTERGENIC			
SNP_112944_A_2988	NW_004519131.1	scaffold4851	2988	TT	CC	CC	INTERGENIC			
SNP_112946_A_3130	NW_004519131.1	scaffold4851	3130	GG	TT	TT	INTERGENIC			
SNP_112947_A_3224	NW_004519131.1	scaffold4851	3224	CC	AA	AA	INTERGENIC			
SNP_112948_A_3268	NW_004519131.1	scaffold4851	3268	GG	AA	AA	INTERGENIC			
SNP_112949_A_3333	NW_004519131.1	scaffold4851	3333	TT	AA	AA	INTERGENIC			
SNP_112950_A_3363	NW_004519131.1	scaffold4851	3363	TT	AA	AA	INTERGENIC			
SNP_112951_A_3405	NW_004519131.1	scaffold4851	3405	AA	GG	GG	INTERGENIC			
SNP_112952_A_3578	NW_004519131.1	scaffold4851	3578	AA	GG	GG	INTERGENIC			
SNP_112953_A_3588	NW_004519131.1	scaffold4851	3588	TT	AA	AA	INTERGENIC			
SNP_112954_A_3601	NW_004519131.1	scaffold4851	3601	AA	CC	CC	INTERGENIC			
SNP_112956_A_3639	NW_004519131.1	scaffold4851	3639	GG	AA	AA	INTERGENIC			
SNP_112957_A_3806	NW_004519131.1	scaffold4851	3806	AA	GG	GG	INTERGENIC			
SNP_112958_A_5151	NW_004519136.1	scaffold4859	5151	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112959_A_5584	NW_004519136.1	scaffold4859	5584	CC	TT	TT	INTERGENIC			
SNP_112960_A_6970	NW_004519136.1	scaffold4859	6970	CC	AA	AA	INTERGENIC			
SNP_112962_A_1855	NW_004519140.1	scaffold4863	1855	TT	CC	CC	INTERGENIC			
SNP_112963_A_1911	NW_004519140.1	scaffold4863	1911	CC	TT	TT	INTERGENIC			
SNP_112964_A_796	NW_004519142.1	scaffold4865	796	CC	TT	TT	INTERGENIC			
SNP_112965_A_1113	NW_004519142.1	scaffold4865	1113	AA	GG	GG	INTERGENIC			
SNP_112966_A_1221	NW_004519142.1	scaffold4865	1221	CC	TT	TT	INTERGENIC			
SNP_112967_A_402	NW_004519146.1	scaffold4869	402	CC	AA	AA	INTERGENIC			
SNP_112968_A_607	NW_004519146.1	scaffold4869	607	CC	GG	GG	INTERGENIC			
SNP_112969_A_633	NW_004519146.1	scaffold4869	633	CC	AA	AA	INTERGENIC			
SNP_112970_A_640	NW_004519146.1	scaffold4869	640	GG	AA	AA	INTERGENIC			
SNP_112971_A_751	NW_004519146.1	scaffold4869	751	TT	CC	CC	INTERGENIC			
SNP_112972_A_770	NW_004519146.1	scaffold4869	770	TT	AA	AA	INTERGENIC			
SNP_112974_A_921	NW_004519146.1	scaffold4869	921	GG	AA	AA	INTERGENIC			
SNP_112975_A_1221	NW_004519146.1	scaffold4869	1221	TT	AA	AA	INTERGENIC			
SNP_112976_A_1240	NW_004519146.1	scaffold4869	1240	AA	TT	TT	INTERGENIC			
SNP_112978_A_7755	NW_004519148.1	scaffold4874	7755	GG	TT	TT	INTERGENIC			
SNP_112979_A_7769	NW_004519148.1	scaffold4874	7769	AA	GG	GG	INTERGENIC			
SNP_112980_A_7827	NW_004519148.1	scaffold4874	7827	AA	GG	GG	INTERGENIC			
SNP_112981_A_8015	NW_004519148.1	scaffold4874	8015	TT	AA	AA	INTERGENIC			
SNP_112982_A_8022	NW_004519148.1	scaffold4874	8022	GG	AA	AA	INTERGENIC			
SNP_112983_A_8031	NW_004519148.1	scaffold4874	8031	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_112984_A_8032	NW_004519148.1	scaffold4874	8032	AA	GG	GG	INTERGENIC			
SNP_112985_A_8131	NW_004519148.1	scaffold4874	8131	CC	AA	AA	INTERGENIC			
SNP_112986_A_8146	NW_004519148.1	scaffold4874	8146	AA	GG	GG	INTERGENIC			
SNP_112987_A_3762	NW_004519150.1	scaffold4879	3762	TT	GG	GG	INTERGENIC			
SNP_112988_A_799	NW_004519153.1	scaffold4884	799	TT	CC	CC	INTERGENIC			
SNP_112989_A_943	NW_004519153.1	scaffold4884	943	TT	GG	GG	INTERGENIC			
SNP_112990_A_1077	NW_004519153.1	scaffold4884	1077	AA	GG	GG	INTERGENIC			
SNP_112991_A_1096	NW_004519153.1	scaffold4884	1096	TT	CC	CC	INTERGENIC			
SNP_112992_A_1733	NW_004519153.1	scaffold4884	1733	TT	GG	GG	INTERGENIC			
SNP_112993_A_1859	NW_004519153.1	scaffold4884	1859	TT	AA	AA	INTERGENIC			
SNP_112994_A_1876	NW_004519153.1	scaffold4884	1876	AA	GG	GG	INTERGENIC			
SNP_112995_A_1921	NW_004519153.1	scaffold4884	1921	AA	TT	TT	INTERGENIC			
SNP_112996_A_1966	NW_004519153.1	scaffold4884	1966	AA	GG	GG	INTERGENIC			
SNP_112997_A_1755	NW_004519156.1	scaffold4889	1755	TT	CC	CC	INTERGENIC			
SNP_112998_A_2121	NW_004519158.1	scaffold4892	2121	CC	TT	TT	INTERGENIC			
SNP_112999_A_97	NW_004519160.1	scaffold4894	97	TT	GG	GG	INTERGENIC			
SNP_113000_A_64	NW_004519161.1	scaffold4895	64	AA	GG	GG	INTERGENIC			
SNP_113001_A_70	NW_004519161.1	scaffold4895	70	GG	CC	CC	INTERGENIC			
SNP_113002_A_11368	NW_004519166.1	scaffold4902	11368	GG	AA	AA	NON_SYNONYMOUS_CODING	101511022	probable receptor-like protein kinase At5g47070	
SNP_113003_A_15034	NW_004519166.1	scaffold4902	15034	AA	GG	GG	URR	101511022	probable receptor-like protein kinase At5g47070	
SNP_113004_A_15265	NW_004519166.1	scaffold4902	15265	CC	TT	TT	URR	101511022	probable receptor-like protein kinase At5g47070	
SNP_113005_A_16049	NW_004519166.1	scaffold4902	16049	GG	AA	AA	URR	101511022	probable receptor-like protein kinase At5g47070	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113006_A_16735	NW_004519166.1	scaffold4902	16735	GG	AA	AA	INTERGENIC		
SNP_113007_A_16737	NW_004519166.1	scaffold4902	16737	CC	TT	TT	INTERGENIC		
SNP_113008_A_16819	NW_004519166.1	scaffold4902	16819	CC	GG	GG	INTERGENIC		
SNP_113009_A_18743	NW_004519166.1	scaffold4902	18743	AA	CC	CC	INTERGENIC		
SNP_113010_A_19646	NW_004519166.1	scaffold4902	19646	CC	TT	TT	INTERGENIC		
SNP_113011_A_20853	NW_004519166.1	scaffold4902	20853	CC	TT	TT	DRR	101511328	uncharacterized LOC101511328
SNP_113012_A_23121	NW_004519166.1	scaffold4902	23121	GG	TT	TT	URR	101511328	uncharacterized LOC101511328
SNP_113015_A_40702	NW_004519166.1	scaffold4902	40702	TT	CC	CC	INTERGENIC		
SNP_113016_A_45488	NW_004519166.1	scaffold4902	45488	CC	GG	GG	DRR	101512524	protein ENHANCED DOWNY MILDEW 2-like
SNP_113017_A_45505	NW_004519166.1	scaffold4902	45505	AA	TT	TT	INTERGENIC		
SNP_113018_A_57614	NW_004519166.1	scaffold4902	57614	TT	GG	GG	INTRON	101513600	cytochrome P450 714C2-like
SNP_113019_A_65214	NW_004519166.1	scaffold4902	65214	CC	AA	AA	INTRON	101513925	uncharacterized LOC101513925
SNP_113021_A_66045	NW_004519166.1	scaffold4902	66045	CC	TT	TT	NON_SYNONYMOUS_CODING	101513925	uncharacterized LOC101513925
SNP_113022_A_66460	NW_004519166.1	scaffold4902	66460	AA	CC	CC	SYNONYMOUS_CODING	101513925	uncharacterized LOC101513925
SNP_113023_A_66818	NW_004519166.1	scaffold4902	66818	CC	TT	TT	URR	101513925	uncharacterized LOC101513925
SNP_113024_A_66857	NW_004519166.1	scaffold4902	66857	AA	TT	TT	URR	101513925	uncharacterized LOC101513925
SNP_113025_A_71090	NW_004519166.1	scaffold4902	71090	TT	AA	AA	INTERGENIC		
SNP_113026_A_72792	NW_004519166.1	scaffold4902	72792	TT	AA	AA	INTERGENIC		
SNP_113027_A_72849	NW_004519166.1	scaffold4902	72849	CC	TT	TT	INTERGENIC		
SNP_113029_A_73002	NW_004519166.1	scaffold4902	73002	TT	CC	CC	INTERGENIC		
SNP_113031_A_73096	NW_004519166.1	scaffold4902	73096	AA	CC	CC	INTERGENIC		
SNP_113032_A_73117	NW_004519166.1	scaffold4902	73117	CC	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113033_A_73191	NW_004519166.1	scaffold4902	73191	CC	TT	TT	INTERGENIC			
SNP_113034_A_73338	NW_004519166.1	scaffold4902	73338	GG	AA	AA	INTERGENIC			
SNP_113035_A_73350	NW_004519166.1	scaffold4902	73350	CC	TT	TT	INTERGENIC			
SNP_113036_A_73370	NW_004519166.1	scaffold4902	73370	TT	CC	CC	INTERGENIC			
SNP_113037_A_73523	NW_004519166.1	scaffold4902	73523	CC	TT	TT	INTERGENIC			
SNP_113038_A_73544	NW_004519166.1	scaffold4902	73544	CC	TT	TT	INTERGENIC			
SNP_113039_A_73692	NW_004519166.1	scaffold4902	73692	TT	GG	GG	INTERGENIC			
SNP_113040_A_73707	NW_004519166.1	scaffold4902	73707	CC	AA	AA	INTERGENIC			
SNP_113041_A_73779	NW_004519166.1	scaffold4902	73779	AA	GG	GG	INTERGENIC			
SNP_113044_A_74418	NW_004519166.1	scaffold4902	74418	GG	AA	AA	INTERGENIC			
SNP_113045_A_74609	NW_004519166.1	scaffold4902	74609	CC	TT	TT	INTERGENIC			
SNP_113046_A_74835	NW_004519166.1	scaffold4902	74835	CC	TT	TT	INTERGENIC			
SNP_113047_A_74904	NW_004519166.1	scaffold4902	74904	GG	AA	AA	INTERGENIC			
SNP_113049_A_75722	NW_004519166.1	scaffold4902	75722	AA	CC	CC	INTERGENIC			
SNP_113050_A_80328	NW_004519166.1	scaffold4902	80328	AA	GG	GG	INTRON	101513051	uncharacterized LOC101513051	
SNP_113052_A_82660	NW_004519166.1	scaffold4902	82660	CC	TT	TT	URR	101513051	uncharacterized LOC101513051	
SNP_113053_A_82783	NW_004519166.1	scaffold4902	82783	TT	CC	CC	URR	101513051	uncharacterized LOC101513051	
SNP_113055_A_83315	NW_004519166.1	scaffold4902	83315	GG	TT	TT	DRR	101513377	Unknown function	
SNP_113056_A_91772	NW_004519166.1	scaffold4902	91772	TT	CC	CC	INTERGENIC			
SNP_113057_A_92058	NW_004519166.1	scaffold4902	92058	GG	TT	TT	INTERGENIC			
SNP_113058_A_382	NW_004519169.1	scaffold4905	382	AA	GG	GG	INTERGENIC			
SNP_113059_A_1145	NW_004519173.1	scaffold4912	1145	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113060_A_4207	NW_004519175.1	scaffold4917	4207	AA	GG	GG	INTERGENIC			
SNP_113061_A_4244	NW_004519175.1	scaffold4917	4244	CC	AA	AA	INTERGENIC			
SNP_113062_A_4254	NW_004519175.1	scaffold4917	4254	TT	AA	AA	INTERGENIC			
SNP_113063_A_4745	NW_004519175.1	scaffold4917	4745	TT	AA	AA	INTERGENIC			
SNP_113064_A_4778	NW_004519175.1	scaffold4917	4778	TT	AA	AA	INTERGENIC			
SNP_113065_A_4959	NW_004519175.1	scaffold4917	4959	AA	TT	TT	INTERGENIC			
SNP_113066_A_4992	NW_004519175.1	scaffold4917	4992	AA	TT	TT	INTERGENIC			
SNP_113067_A_5036	NW_004519175.1	scaffold4917	5036	TT	AA	AA	INTERGENIC			
SNP_113068_A_5288	NW_004519175.1	scaffold4917	5288	GG	AA	AA	INTERGENIC			
SNP_113069_A_5309	NW_004519175.1	scaffold4917	5309	GG	TT	TT	INTERGENIC			
SNP_113070_A_5472	NW_004519175.1	scaffold4917	5472	CC	GG	GG	INTERGENIC			
SNP_113072_A_5558	NW_004519175.1	scaffold4917	5558	TT	GG	GG	INTERGENIC			
SNP_113073_A_5583	NW_004519175.1	scaffold4917	5583	AA	CC	CC	INTERGENIC			
SNP_113074_A_5637	NW_004519175.1	scaffold4917	5637	TT	AA	AA	INTERGENIC			
SNP_113076_A_19335	NW_004519177.1	scaffold4920	19335	TT	CC	CC	INTERGENIC			
SNP_113077_A_19337	NW_004519177.1	scaffold4920	19337	GG	AA	AA	INTERGENIC			
SNP_113078_A_19450	NW_004519177.1	scaffold4920	19450	AA	GG	GG	INTERGENIC			
SNP_113079_A_19462	NW_004519177.1	scaffold4920	19462	TT	AA	AA	INTERGENIC			
SNP_113080_A_21029	NW_004519177.1	scaffold4920	21029	GG	CC	CC	INTERGENIC			
SNP_113081_A_3902	NW_004519180.1	scaffold4923	3902	AA	GG	GG	INTERGENIC			
SNP_113082_A_10342	NW_004519180.1	scaffold4923	10342	TT	GG	GG	INTERGENIC			
SNP_113083_A_10778	NW_004519180.1	scaffold4923	10778	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113084_A_10819	NW_004519180.1	scaffold4923	10819	CC	TT	TT	INTERGENIC			
SNP_113085_A_10862	NW_004519180.1	scaffold4923	10862	CC	GG	GG	INTERGENIC			
SNP_113086_A_10875	NW_004519180.1	scaffold4923	10875	CC	TT	TT	INTERGENIC			
SNP_113087_A_11028	NW_004519180.1	scaffold4923	11028	CC	GG	GG	INTERGENIC			
SNP_113088_A_11086	NW_004519180.1	scaffold4923	11086	AA	GG	GG	INTERGENIC			
SNP_113089_A_11116	NW_004519180.1	scaffold4923	11116	CC	GG	GG	INTERGENIC			
SNP_113090_A_11136	NW_004519180.1	scaffold4923	11136	CC	AA	AA	INTERGENIC			
SNP_113092_A_19692	NW_004519180.1	scaffold4923	19692	TT	CC	CC	INTERGENIC			
SNP_113093_A_19729	NW_004519180.1	scaffold4923	19729	AA	GG	GG	INTERGENIC			
SNP_113094_A_19828	NW_004519180.1	scaffold4923	19828	AA	GG	GG	INTERGENIC			
SNP_113095_A_19865	NW_004519180.1	scaffold4923	19865	TT	AA	AA	INTERGENIC			
SNP_113096_A_20006	NW_004519180.1	scaffold4923	20006	AA	TT	TT	INTERGENIC			
SNP_113097_A_537	NW_004519192.1	scaffold4937	537	TT	AA	AA	INTERGENIC			
SNP_113098_A_379	NW_004519196.1	scaffold4941	379	GG	AA	AA	INTERGENIC			
SNP_113100_A_1024	NW_004519197.1	scaffold4943	1024	GG	TT	TT	INTERGENIC			
SNP_113102_A_1380	NW_004519197.1	scaffold4943	1380	TT	CC	CC	INTERGENIC			
SNP_113103_A_1501	NW_004519197.1	scaffold4943	1501	AA	TT	TT	INTERGENIC			
SNP_113104_A_649	NW_004519200.1	scaffold4946	649	TT	AA	AA	INTERGENIC			
SNP_113105_A_842	NW_004519200.1	scaffold4946	842	AA	GG	GG	INTERGENIC			
SNP_113106_A_1011	NW_004519207.1	scaffold4954	1011	GG	CC	CC	INTERGENIC			
SNP_113107_A_792	NW_004519210.1	scaffold4957	792	TT	AA	AA	INTERGENIC			
SNP_113108_A_794	NW_004519210.1	scaffold4957	794	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113109_A_796	NW_004519210.1	scaffold4957	796	AA	TT	TT	INTERGENIC			
SNP_113110_A_841	NW_004519210.1	scaffold4957	841	GG	AA	AA	INTERGENIC			
SNP_113111_A_843	NW_004519211.1	scaffold4958	843	GG	TT	TT	INTERGENIC			
SNP_113112_A_857	NW_004519211.1	scaffold4958	857	AA	GG	GG	INTERGENIC			
SNP_113113_A_858	NW_004519211.1	scaffold4958	858	AA	GG	GG	INTERGENIC			
SNP_113114_A_1096	NW_004519212.1	scaffold4960	1096	CC	AA	AA	INTERGENIC			
SNP_113115_A_1345	NW_004519218.1	scaffold4970	1345	AA	GG	GG	INTERGENIC			
SNP_113116_A_1383	NW_004519220.1	scaffold4972	1383	GG	AA	AA	INTERGENIC			
SNP_113117_A_1400	NW_004519220.1	scaffold4972	1400	TT	GG	GG	INTERGENIC			
SNP_113118_A_1463	NW_004519220.1	scaffold4972	1463	AA	TT	TT	INTERGENIC			
SNP_113119_A_4915	NW_004519222.1	scaffold4975	4915	CC	AA	AA	INTERGENIC			
SNP_113120_A_868	NW_004519225.1	scaffold4978	868	TT	AA	AA	INTERGENIC			
SNP_113121_A_904	NW_004519225.1	scaffold4978	904	AA	GG	GG	INTERGENIC			
SNP_113122_A_1199	NW_004519225.1	scaffold4978	1199	GG	TT	TT	INTERGENIC			
SNP_113123_A_1302	NW_004519225.1	scaffold4978	1302	TT	CC	CC	INTERGENIC			
SNP_113125_A_755	NW_004519226.1	scaffold4979	755	TT	CC	CC	INTERGENIC			
SNP_113126_A_1186	NW_004519229.1	scaffold4982	1186	GG	TT	TT	INTERGENIC			
SNP_113127_A_129	NW_004519230.1	scaffold4983	129	GG	AA	AA	INTERGENIC			
SNP_113128_A_1049	NW_004519230.1	scaffold4983	1049	AA	CC	CC	INTERGENIC			
SNP_113129_A_1166	NW_004519230.1	scaffold4983	1166	TT	CC	CC	INTERGENIC			
SNP_113130_A_20198	NW_004519230.1	scaffold4983	20198	TT	GG	GG	URR	101514265	Unknown function	
SNP_113131_A_20850	NW_004519230.1	scaffold4983	20850	TT	GG	GG	URR	101514265	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113132_A_20853	NW_004519230.1	scaffold4983	20853	CC	GG	GG	URR		101514265	Unknown function
SNP_113133_A_20901	NW_004519230.1	scaffold4983	20901	AA	CC	CC	URR		101514265	Unknown function
SNP_113134_A_21187	NW_004519230.1	scaffold4983	21187	GG	TT	TT	URR		101514265	Unknown function
SNP_113135_A_21208	NW_004519230.1	scaffold4983	21208	AA	GG	GG	URR		101514265	Unknown function
SNP_113136_A_21230	NW_004519230.1	scaffold4983	21230	GG	AA	AA	URR		101514265	Unknown function
SNP_113137_A_21256	NW_004519230.1	scaffold4983	21256	AA	CC	CC	URR		101514265	Unknown function
SNP_113138_A_23642	NW_004519230.1	scaffold4983	23642	TT	GG	GG	INTERGENIC			
SNP_113139_A_26981	NW_004519230.1	scaffold4983	26981	TT	CC	CC	INTERGENIC			
SNP_113140_A_27039	NW_004519230.1	scaffold4983	27039	GG	AA	AA	INTERGENIC			
SNP_113142_A_27491	NW_004519230.1	scaffold4983	27491	AA	TT	TT	INTERGENIC			
SNP_113143_A_27914	NW_004519230.1	scaffold4983	27914	AA	GG	GG	INTERGENIC			
SNP_113144_A_27976	NW_004519230.1	scaffold4983	27976	TT	CC	CC	INTERGENIC			
SNP_113145_A_64	NW_004519231.1	scaffold4984	64	TT	AA	AA	INTERGENIC			
SNP_113146_A_117	NW_004519231.1	scaffold4984	117	TT	GG	GG	INTERGENIC			
SNP_113147_A_354	NW_004519231.1	scaffold4984	354	TT	AA	AA	INTERGENIC			
SNP_113148_A_516	NW_004519231.1	scaffold4984	516	GG	TT	TT	INTERGENIC			
SNP_113149_A_865	NW_004519231.1	scaffold4984	865	TT	CC	CC	INTERGENIC			
SNP_113150_A_999	NW_004519231.1	scaffold4984	999	AA	GG	GG	INTERGENIC			
SNP_113151_A_1012	NW_004519231.1	scaffold4984	1012	AA	GG	GG	INTERGENIC			
SNP_113152_A_1966	NW_004519234.1	scaffold4989	1966	AA	CC	CC	INTERGENIC			
SNP_113153_A_7095	NW_004519234.1	scaffold4989	7095	TT	GG	GG	INTERGENIC			
SNP_113154_A_976	NW_004519238.1	scaffold4994	976	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113155_A_403	NW_004519239.1	scaffold4996	403	TT	AA	AA	INTERGENIC			
SNP_113156_A_405	NW_004519239.1	scaffold4996	405	GG	TT	TT	INTERGENIC			
SNP_113157_A_408	NW_004519239.1	scaffold4996	408	CC	TT	TT	INTERGENIC			
SNP_113158_A_1689	NW_004519239.1	scaffold4996	1689	CC	TT	TT	INTERGENIC			
SNP_113159_A_1734	NW_004519239.1	scaffold4996	1734	TT	CC	CC	INTERGENIC			
SNP_113160_A_872	NW_004519242.1	scaffold5001	872	AA	CC	CC	INTERGENIC			
SNP_113161_A_1021	NW_004519242.1	scaffold5001	1021	AA	GG	GG	INTERGENIC			
SNP_113162_A_1091	NW_004519242.1	scaffold5001	1091	TT	GG	GG	INTERGENIC			
SNP_113164_A_551	NW_004519249.1	scaffold5013	551	TT	GG	GG	INTERGENIC			
SNP_113165_A_108	NW_004519250.1	scaffold5014	108	CC	GG	GG	INTERGENIC			
SNP_113166_A_4230	NW_004519251.1	scaffold5016	4230	TT	AA	AA	INTERGENIC			
SNP_113167_A_4328	NW_004519251.1	scaffold5016	4328	TT	CC	CC	INTERGENIC			
SNP_113168_A_4690	NW_004519251.1	scaffold5016	4690	GG	TT	TT	INTERGENIC			
SNP_113169_A_4925	NW_004519251.1	scaffold5016	4925	TT	CC	CC	INTERGENIC			
SNP_113170_A_955	NW_004519254.1	scaffold5023	955	GG	AA	AA	INTERGENIC			
SNP_113171_A_1467	NW_004519254.1	scaffold5023	1467	CC	TT	TT	INTERGENIC			
SNP_113172_A_8231	NW_004519254.1	scaffold5023	8231	TT	CC	CC	INTERGENIC			
SNP_113173_A_8971	NW_004519254.1	scaffold5023	8971	TT	GG	GG	INTERGENIC			
SNP_113174_A_9028	NW_004519254.1	scaffold5023	9028	AA	CC	CC	INTERGENIC			
SNP_113175_A_9124	NW_004519254.1	scaffold5023	9124	TT	GG	GG	INTERGENIC			
SNP_113176_A_9130	NW_004519254.1	scaffold5023	9130	TT	CC	CC	INTERGENIC			
SNP_113177_A_9193	NW_004519254.1	scaffold5023	9193	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113179_A_9259	NW_004519254.1	scaffold5023	9259	TT	CC	CC	INTERGENIC			
SNP_113180_A_9504	NW_004519254.1	scaffold5023	9504	AA	TT	TT	INTERGENIC			
SNP_113181_A_734	NW_004519256.1	scaffold5025	734	CC	AA	AA	INTERGENIC			
SNP_113182_A_670	NW_004519258.1	scaffold5028	670	GG	CC	CC	INTERGENIC			
SNP_113183_A_781	NW_004519258.1	scaffold5028	781	AA	GG	GG	INTERGENIC			
SNP_113184_A_960	NW_004519258.1	scaffold5028	960	GG	AA	AA	INTERGENIC			
SNP_113185_A_981	NW_004519258.1	scaffold5028	981	AA	GG	GG	INTERGENIC			
SNP_113186_A_1039	NW_004519258.1	scaffold5028	1039	AA	GG	GG	INTERGENIC			
SNP_113187_A_1054	NW_004519258.1	scaffold5028	1054	TT	GG	GG	INTERGENIC			
SNP_113188_A_1075	NW_004519258.1	scaffold5028	1075	AA	CC	CC	INTERGENIC			
SNP_113189_A_403	NW_004519260.1	scaffold5030	403	GG	AA	AA	INTERGENIC			
SNP_113190_A_527	NW_004519260.1	scaffold5030	527	GG	CC	CC	INTERGENIC			
SNP_113191_A_803	NW_004519260.1	scaffold5030	803	GG	AA	AA	INTERGENIC			
SNP_113193_A_985	NW_004519260.1	scaffold5030	985	GG	TT	TT	INTERGENIC			
SNP_113194_A_1011	NW_004519260.1	scaffold5030	1011	GG	TT	TT	INTERGENIC			
SNP_113195_A_1121	NW_004519260.1	scaffold5030	1121	GG	AA	AA	INTERGENIC			
SNP_113196_A_2886	NW_004519260.1	scaffold5030	2886	AA	TT	TT	INTERGENIC			
SNP_113197_A_9552	NW_004519260.1	scaffold5030	9552	AA	GG	GG	INTERGENIC			
SNP_113198_A_18514	NW_004519260.1	scaffold5030	18514	CC	TT	TT	INTERGENIC			
SNP_113199_A_18551	NW_004519260.1	scaffold5030	18551	TT	CC	CC	INTERGENIC			
SNP_113200_A_18693	NW_004519260.1	scaffold5030	18693	AA	GG	GG	INTERGENIC			
SNP_113201_A_18885	NW_004519260.1	scaffold5030	18885	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113202_A_20198	NW_004519260.1	scaffold5030	20198	TT	CC	CC	INTERGENIC			
SNP_113203_A_138	NW_004519261.1	scaffold5031	138	AA	GG	GG	INTERGENIC			
SNP_113204_A_468	NW_004519261.1	scaffold5031	468	GG	AA	AA	INTERGENIC			
SNP_113205_A_2151	NW_004519263.1	scaffold5033	2151	CC	TT	TT	INTERGENIC			
SNP_113206_A_2176	NW_004519263.1	scaffold5033	2176	AA	TT	TT	INTERGENIC			
SNP_113207_A_157	NW_004519278.1	scaffold5059	157	GG	AA	AA	INTERGENIC			
SNP_113208_A_223	NW_004519278.1	scaffold5059	223	AA	GG	GG	INTERGENIC			
SNP_113211_A_480	NW_004519278.1	scaffold5059	480	AA	CC	CC	INTERGENIC			
SNP_113212_A_1447	NW_004519281.1	scaffold5065	1447	CC	GG	GG	INTERGENIC			
SNP_113213_A_222	NW_004519286.1	scaffold5072	222	GG	AA	AA	INTERGENIC			
SNP_113214_A_256	NW_004519286.1	scaffold5072	256	TT	GG	GG	INTERGENIC			
SNP_113215_A_519	NW_004519286.1	scaffold5072	519	TT	AA	AA	INTERGENIC			
SNP_113216_A_5655	NW_004519286.1	scaffold5072	5655	AA	TT	TT	INTERGENIC			
SNP_113217_A_5668	NW_004519286.1	scaffold5072	5668	TT	CC	CC	INTERGENIC			
SNP_113218_A_5687	NW_004519286.1	scaffold5072	5687	AA	GG	GG	INTERGENIC			
SNP_113219_A_5716	NW_004519286.1	scaffold5072	5716	CC	TT	TT	INTERGENIC			
SNP_113220_A_5746	NW_004519286.1	scaffold5072	5746	CC	AA	AA	INTERGENIC			
SNP_113221_A_5896	NW_004519286.1	scaffold5072	5896	CC	TT	TT	INTERGENIC			
SNP_113222_A_6028	NW_004519286.1	scaffold5072	6028	TT	CC	CC	INTERGENIC			
SNP_113223_A_6109	NW_004519286.1	scaffold5072	6109	AA	CC	CC	INTERGENIC			
SNP_113224_A_6235	NW_004519286.1	scaffold5072	6235	GG	AA	AA	INTERGENIC			
SNP_113225_A_6272	NW_004519286.1	scaffold5072	6272	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113227_A_5532	NW_004519289.1	scaffold5075	5532	TT	AA	AA	INTERGENIC			
SNP_113228_A_1396	NW_004519290.1	scaffold5076	1396	AA	GG	GG	INTERGENIC			
SNP_113229_A_64	NW_004519295.1	scaffold5083	64	CC	TT	TT	INTERGENIC			
SNP_113230_A_101	NW_004519295.1	scaffold5083	101	AA	GG	GG	INTERGENIC			
SNP_113231_A_613	NW_004519295.1	scaffold5083	613	AA	TT	TT	INTERGENIC			
SNP_113232_A_787	NW_004519295.1	scaffold5083	787	CC	AA	AA	INTERGENIC			
SNP_113234_A_2415	NW_004519295.1	scaffold5083	2415	AA	TT	TT	INTERGENIC			
SNP_113235_A_3917	NW_004519295.1	scaffold5083	3917	CC	TT	TT	INTERGENIC			
SNP_113236_A_6072	NW_004519295.1	scaffold5083	6072	CC	TT	TT	INTERGENIC			
SNP_113237_A_6219	NW_004519295.1	scaffold5083	6219	TT	CC	CC	INTERGENIC			
SNP_113238_A_6251	NW_004519295.1	scaffold5083	6251	GG	AA	AA	INTERGENIC			
SNP_113239_A_6314	NW_004519295.1	scaffold5083	6314	AA	GG	GG	INTERGENIC			
SNP_113240_A_6448	NW_004519295.1	scaffold5083	6448	CC	AA	AA	INTERGENIC			
SNP_113241_A_6545	NW_004519295.1	scaffold5083	6545	TT	GG	GG	INTERGENIC			
SNP_113242_A_3459	NW_004519297.1	scaffold5086	3459	AA	TT	TT	INTERGENIC			
SNP_113244_A_3185	NW_004519298.1	scaffold5089	3185	TT	CC	CC	INTERGENIC			
SNP_113245_A_3213	NW_004519298.1	scaffold5089	3213	GG	AA	AA	INTERGENIC			
SNP_113246_A_3271	NW_004519298.1	scaffold5089	3271	CC	TT	TT	INTERGENIC			
SNP_113247_A_3286	NW_004519298.1	scaffold5089	3286	AA	GG	GG	INTERGENIC			
SNP_113248_A_3383	NW_004519298.1	scaffold5089	3383	GG	AA	AA	INTERGENIC			
SNP_113249_A_3421	NW_004519298.1	scaffold5089	3421	TT	CC	CC	INTERGENIC			
SNP_113250_A_3432	NW_004519298.1	scaffold5089	3432	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113251_A_3483	NW_004519298.1	scaffold5089	3483	CC	AA	AA	INTERGENIC			
SNP_113252_A_3489	NW_004519298.1	scaffold5089	3489	AA	GG	GG	INTERGENIC			
SNP_113253_A_3530	NW_004519298.1	scaffold5089	3530	AA	GG	GG	INTERGENIC			
SNP_113255_A_3735	NW_004519298.1	scaffold5089	3735	TT	GG	GG	INTERGENIC			
SNP_113256_A_5962	NW_004519298.1	scaffold5089	5962	CC	TT	TT	INTERGENIC			
SNP_113257_A_6062	NW_004519298.1	scaffold5089	6062	TT	GG	GG	INTERGENIC			
SNP_113258_A_7358	NW_004519298.1	scaffold5089	7358	AA	GG	GG	INTERGENIC			
SNP_113259_A_1044	NW_004519300.1	scaffold5094	1044	CC	TT	TT	INTERGENIC			
SNP_113261_A_70	NW_004519305.1	scaffold5103	70	TT	AA	AA	INTERGENIC			
SNP_113263_A_168	NW_004519305.1	scaffold5103	168	TT	CC	CC	INTERGENIC			
SNP_113264_A_181	NW_004519305.1	scaffold5103	181	GG	TT	TT	INTERGENIC			
SNP_113265_A_1454	NW_004519306.1	scaffold5105	1454	AA	GG	GG	INTERGENIC			
SNP_113266_A_1965	NW_004519306.1	scaffold5105	1965	GG	TT	TT	INTERGENIC			
SNP_113267_A_2088	NW_004519306.1	scaffold5105	2088	GG	AA	AA	INTERGENIC			
SNP_113268_A_512	NW_004519308.1	scaffold5111	512	CC	GG	GG	INTERGENIC			
SNP_113269_A_603	NW_004519308.1	scaffold5111	603	CC	AA	AA	INTERGENIC			
SNP_113270_A_808	NW_004519308.1	scaffold5111	808	AA	TT	TT	INTERGENIC			
SNP_113271_A_919	NW_004519308.1	scaffold5111	919	TT	CC	CC	INTERGENIC			
SNP_113272_A_20422	NW_004519311.1	scaffold5115	20422	GG	TT	TT	INTERGENIC			
SNP_113273_A_20628	NW_004519311.1	scaffold5115	20628	GG	TT	TT	INTERGENIC			
SNP_113274_A_20669	NW_004519311.1	scaffold5115	20669	CC	AA	AA	INTERGENIC			
SNP_113275_A_20681	NW_004519311.1	scaffold5115	20681	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113276_A_20707	NW_004519311.1	scaffold5115	20707	GG	AA	AA	INTERGENIC		
SNP_113277_A_20709	NW_004519311.1	scaffold5115	20709	GG	AA	AA	INTERGENIC		
SNP_113278_A_23830	NW_004519311.1	scaffold5115	23830	AA	GG	GG	INTERGENIC		
SNP_113279_A_1243	NW_004519314.1	scaffold5120	1243	GG	TT	TT	INTERGENIC		
SNP_113280_A_1244	NW_004519314.1	scaffold5120	1244	CC	AA	AA	INTERGENIC		
SNP_113282_A_15237	NW_004519314.1	scaffold5120	15237	CC	TT	TT	INTERGENIC		
SNP_113284_A_15563	NW_004519314.1	scaffold5120	15563	TT	CC	CC	DRR	101514904	Unknown function
SNP_113285_A_16593	NW_004519314.1	scaffold5120	16593	GG	AA	AA	SYNONYMOUS_CODING	101514904	Unknown function
SNP_113286_A_22187	NW_004519314.1	scaffold5120	22187	GG	AA	AA	URR	101514904	Unknown function
SNP_113287_A_617	NW_004519318.1	scaffold5125	617	GG	TT	TT	INTERGENIC		
SNP_113288_A_653	NW_004519318.1	scaffold5125	653	AA	GG	GG	INTERGENIC		
SNP_113289_A_9466	NW_004519319.1	scaffold5126	9466	CC	TT	TT	INTERGENIC		
SNP_113290_A_1596	NW_004519322.1	scaffold5129	1596	TT	CC	CC	INTERGENIC		
SNP_113291_A_1604	NW_004519322.1	scaffold5129	1604	AA	GG	GG	INTERGENIC		
SNP_113292_A_1728	NW_004519322.1	scaffold5129	1728	TT	CC	CC	INTERGENIC		
SNP_113293_A_118	NW_004519324.1	scaffold5135	118	AA	TT	TT	INTERGENIC		
SNP_113294_A_3260	NW_004519324.1	scaffold5135	3260	AA	GG	GG	INTERGENIC		
SNP_113295_A_146	NW_004519328.1	scaffold5143	146	CC	TT	TT	INTERGENIC		
SNP_113296_A_152	NW_004519328.1	scaffold5143	152	GG	TT	TT	INTERGENIC		
SNP_113298_A_264	NW_004519331.1	scaffold5146	264	TT	GG	GG	INTERGENIC		
SNP_113299_A_1995	NW_004519331.1	scaffold5146	1995	GG	AA	AA	INTERGENIC		
SNP_113301_A_2061	NW_004519337.1	scaffold5155	2061	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113302_A_2109	NW_004519337.1	scaffold5155	2109	AA	TT	TT	INTERGENIC		
SNP_113303_A_2121	NW_004519337.1	scaffold5155	2121	AA	TT	TT	INTERGENIC		
SNP_113304_A_2141	NW_004519337.1	scaffold5155	2141	GG	AA	AA	INTERGENIC		
SNP_113305_A_2146	NW_004519337.1	scaffold5155	2146	TT	AA	AA	INTERGENIC		
SNP_113306_A_2155	NW_004519337.1	scaffold5155	2155	GG	AA	AA	INTERGENIC		
SNP_113307_A_2167	NW_004519337.1	scaffold5155	2167	AA	GG	GG	INTERGENIC		
SNP_113308_A_2179	NW_004519337.1	scaffold5155	2179	AA	CC	CC	INTERGENIC		
SNP_113309_A_2390	NW_004519337.1	scaffold5155	2390	GG	AA	AA	INTERGENIC		
SNP_113310_A_847	NW_004519338.1	scaffold5156	847	GG	AA	AA	INTERGENIC		
SNP_113311_A_4734	NW_004519339.1	scaffold5157	4734	TT	AA	AA	INTERGENIC		
SNP_113312_A_22155	NW_004519339.1	scaffold5157	22155	CC	GG	GG	INTERGENIC		
SNP_113314_A_6473	NW_004519340.1	scaffold5158	6473	TT	CC	CC	INTERGENIC		
SNP_113315_A_6597	NW_004519340.1	scaffold5158	6597	TT	CC	CC	DRR	101488631	putative F-box protein At3g16210
SNP_113316_A_6620	NW_004519340.1	scaffold5158	6620	GG	TT	TT	DRR	101488631	putative F-box protein At3g16210
SNP_113317_A_6808	NW_004519340.1	scaffold5158	6808	TT	AA	AA	DRR	101488631	putative F-box protein At3g16210
SNP_113318_A_6846	NW_004519340.1	scaffold5158	6846	TT	AA	AA	DRR	101488631	putative F-box protein At3g16210
SNP_113319_A_6955	NW_004519340.1	scaffold5158	6955	CC	AA	AA	DRR	101488631	putative F-box protein At3g16210
SNP_113320_A_8320	NW_004519340.1	scaffold5158	8320	GG	AA	AA	SYNONYMOUS_CODING	101488631	putative F-box protein At3g16210
SNP_113321_A_8538	NW_004519340.1	scaffold5158	8538	GG	TT	TT	NON_SYNONYMOUS_CODING	101488631	putative F-box protein At3g16210
SNP_113322_A_8552	NW_004519340.1	scaffold5158	8552	GG	TT	TT	NON_SYNONYMOUS_CODING	101488631	putative F-box protein At3g16210
SNP_113323_A_10075	NW_004519340.1	scaffold5158	10075	AA	CC	CC	URR	101488631	putative F-box protein At3g16210
SNP_113324_A_13302	NW_004519340.1	scaffold5158	13302	GG	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113325_A_13314	NW_004519340.1	scaffold5158	13314	AA	GG	GG	INTERGENIC			
SNP_113326_A_13365	NW_004519340.1	scaffold5158	13365	GG	AA	AA	INTERGENIC			
SNP_113327_A_13376	NW_004519340.1	scaffold5158	13376	AA	CC	CC	INTERGENIC			
SNP_113328_A_13557	NW_004519340.1	scaffold5158	13557	GG	TT	TT	INTERGENIC			
SNP_113329_A_13766	NW_004519340.1	scaffold5158	13766	CC	TT	TT	INTERGENIC			
SNP_113330_A_14304	NW_004519340.1	scaffold5158	14304	AA	GG	GG	INTERGENIC			
SNP_113331_A_14316	NW_004519340.1	scaffold5158	14316	GG	TT	TT	INTERGENIC			
SNP_113332_A_14494	NW_004519340.1	scaffold5158	14494	GG	TT	TT	INTERGENIC			
SNP_113333_A_14610	NW_004519340.1	scaffold5158	14610	GG	AA	AA	INTERGENIC			
SNP_113334_A_14615	NW_004519340.1	scaffold5158	14615	TT	AA	AA	INTERGENIC			
SNP_113335_A_16673	NW_004519340.1	scaffold5158	16673	CC	TT	TT	INTERGENIC			
SNP_113336_A_16702	NW_004519340.1	scaffold5158	16702	TT	CC	CC	INTERGENIC			
SNP_113337_A_16746	NW_004519340.1	scaffold5158	16746	CC	TT	TT	INTERGENIC			
SNP_113338_A_16793	NW_004519340.1	scaffold5158	16793	TT	CC	CC	INTERGENIC			
SNP_113339_A_16812	NW_004519340.1	scaffold5158	16812	GG	AA	AA	INTERGENIC			
SNP_113340_A_16843	NW_004519340.1	scaffold5158	16843	AA	GG	GG	INTERGENIC			
SNP_113341_A_16941	NW_004519340.1	scaffold5158	16941	GG	AA	AA	INTERGENIC			
SNP_113342_A_17025	NW_004519340.1	scaffold5158	17025	AA	GG	GG	INTERGENIC			
SNP_113343_A_17115	NW_004519340.1	scaffold5158	17115	TT	CC	CC	INTERGENIC			
SNP_113344_A_17138	NW_004519340.1	scaffold5158	17138	CC	AA	AA	INTERGENIC			
SNP_113345_A_17140	NW_004519340.1	scaffold5158	17140	GG	AA	AA	INTERGENIC			
SNP_113346_A_17208	NW_004519340.1	scaffold5158	17208	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113347_A_17289	NW_004519340.1	scaffold5158	17289	AA	GG	GG	INTERGENIC			
SNP_113348_A_17298	NW_004519340.1	scaffold5158	17298	TT	GG	GG	INTERGENIC			
SNP_113349_A_17347	NW_004519340.1	scaffold5158	17347	TT	CC	CC	INTERGENIC			
SNP_113350_A_17405	NW_004519340.1	scaffold5158	17405	GG	AA	AA	INTERGENIC			
SNP_113351_A_17410	NW_004519340.1	scaffold5158	17410	TT	CC	CC	INTERGENIC			
SNP_113352_A_17436	NW_004519340.1	scaffold5158	17436	GG	AA	AA	INTERGENIC			
SNP_113353_A_17490	NW_004519340.1	scaffold5158	17490	AA	GG	GG	INTERGENIC			
SNP_113354_A_17631	NW_004519340.1	scaffold5158	17631	GG	AA	AA	INTERGENIC			
SNP_113355_A_17794	NW_004519340.1	scaffold5158	17794	CC	TT	TT	INTERGENIC			
SNP_113356_A_17850	NW_004519340.1	scaffold5158	17850	TT	CC	CC	INTERGENIC			
SNP_113358_A_18216	NW_004519340.1	scaffold5158	18216	TT	CC	CC	INTERGENIC			
SNP_113359_A_18689	NW_004519340.1	scaffold5158	18689	AA	GG	GG	INTERGENIC			
SNP_113360_A_18937	NW_004519340.1	scaffold5158	18937	TT	CC	CC	INTERGENIC			
SNP_113361_A_19012	NW_004519340.1	scaffold5158	19012	AA	GG	GG	INTERGENIC			
SNP_113362_A_19046	NW_004519340.1	scaffold5158	19046	AA	TT	TT	INTERGENIC			
SNP_113363_A_19047	NW_004519340.1	scaffold5158	19047	AA	GG	GG	INTERGENIC			
SNP_113364_A_21446	NW_004519340.1	scaffold5158	21446	GG	AA	AA	INTERGENIC			
SNP_113365_A_21492	NW_004519340.1	scaffold5158	21492	CC	TT	TT	INTERGENIC			
SNP_113366_A_21584	NW_004519340.1	scaffold5158	21584	TT	CC	CC	INTERGENIC			
SNP_113367_A_1174	NW_004519343.1	scaffold5161	1174	TT	GG	GG	INTERGENIC			
SNP_113368_A_1208	NW_004519343.1	scaffold5161	1208	GG	AA	AA	INTERGENIC			
SNP_113369_A_1278	NW_004519343.1	scaffold5161	1278	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113370_A_1098	NW_004519347.1	scaffold5165	1098	TT	CC	CC	INTERGENIC		
SNP_113371_A_1127	NW_004519347.1	scaffold5165	1127	AA	TT	TT	INTERGENIC		
SNP_113372_A_1141	NW_004519347.1	scaffold5165	1141	CC	AA	AA	INTERGENIC		
SNP_113373_A_1429	NW_004519347.1	scaffold5165	1429	TT	AA	AA	INTERGENIC		
SNP_113374_A_1431	NW_004519347.1	scaffold5165	1431	GG	TT	TT	INTERGENIC		
SNP_113375_A_1434	NW_004519347.1	scaffold5165	1434	GG	CC	CC	INTERGENIC		
SNP_113377_A_1639	NW_004519347.1	scaffold5165	1639	AA	TT	TT	INTERGENIC		
SNP_113378_A_1684	NW_004519347.1	scaffold5165	1684	CC	TT	TT	INTERGENIC		
SNP_113379_A_1689	NW_004519347.1	scaffold5165	1689	GG	TT	TT	INTERGENIC		
SNP_113380_A_1763	NW_004519347.1	scaffold5165	1763	TT	CC	CC	INTERGENIC		
SNP_113381_A_5141	NW_004519358.1	scaffold5185	5141	CC	GG	GG	URR	101489297	Unknown function
SNP_113382_A_5145	NW_004519358.1	scaffold5185	5145	CC	TT	TT	URR	101489297	Unknown function
SNP_113383_A_5418	NW_004519358.1	scaffold5185	5418	AA	CC	CC	URR	101489297	Unknown function
SNP_113384_A_5427	NW_004519358.1	scaffold5185	5427	GG	CC	CC	URR	101489297	Unknown function
SNP_113385_A_5428	NW_004519358.1	scaffold5185	5428	GG	AA	AA	URR	101489297	Unknown function
SNP_113386_A_5793	NW_004519358.1	scaffold5185	5793	TT	GG	GG	URR	101489297	Unknown function
SNP_113387_A_6028	NW_004519358.1	scaffold5185	6028	AA	GG	GG	URR	101489297	Unknown function
SNP_113389_A_7460	NW_004519359.1	scaffold5186	7460	CC	TT	TT	INTERGENIC		
SNP_113390_A_7606	NW_004519359.1	scaffold5186	7606	CC	AA	AA	INTERGENIC		
SNP_113391_A_7643	NW_004519359.1	scaffold5186	7643	AA	TT	TT	INTERGENIC		
SNP_113392_A_7717	NW_004519359.1	scaffold5186	7717	TT	CC	CC	INTERGENIC		
SNP_113393_A_7880	NW_004519359.1	scaffold5186	7880	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113394_A_8015	NW_004519359.1	scaffold5186	8015	TT	CC	CC	INTERGENIC			
SNP_113395_A_8461	NW_004519359.1	scaffold5186	8461	CC	AA	AA	INTERGENIC			
SNP_113396_A_8469	NW_004519359.1	scaffold5186	8469	TT	CC	CC	INTERGENIC			
SNP_113398_A_9706	NW_004519359.1	scaffold5186	9706	AA	GG	GG	INTERGENIC			
SNP_113399_A_10093	NW_004519359.1	scaffold5186	10093	TT	CC	CC	INTERGENIC			
SNP_113400_A_10263	NW_004519359.1	scaffold5186	10263	TT	CC	CC	INTERGENIC			
SNP_113401_A_10577	NW_004519359.1	scaffold5186	10577	TT	GG	GG	INTERGENIC			
SNP_113402_A_10782	NW_004519359.1	scaffold5186	10782	TT	CC	CC	INTERGENIC			
SNP_113403_A_10793	NW_004519359.1	scaffold5186	10793	TT	CC	CC	INTERGENIC			
SNP_113404_A_10794	NW_004519359.1	scaffold5186	10794	AA	GG	GG	INTERGENIC			
SNP_113405_A_10863	NW_004519359.1	scaffold5186	10863	AA	TT	TT	INTERGENIC			
SNP_113406_A_10898	NW_004519359.1	scaffold5186	10898	CC	TT	TT	INTERGENIC			
SNP_113407_A_11545	NW_004519359.1	scaffold5186	11545	GG	AA	AA	INTERGENIC			
SNP_113408_A_11695	NW_004519359.1	scaffold5186	11695	CC	TT	TT	INTERGENIC			
SNP_113409_A_11746	NW_004519359.1	scaffold5186	11746	TT	CC	CC	INTERGENIC			
SNP_113410_A_12137	NW_004519359.1	scaffold5186	12137	TT	AA	AA	INTERGENIC			
SNP_113411_A_12422	NW_004519359.1	scaffold5186	12422	CC	GG	GG	INTERGENIC			
SNP_113412_A_12966	NW_004519359.1	scaffold5186	12966	TT	AA	AA	INTERGENIC			
SNP_113413_A_13008	NW_004519359.1	scaffold5186	13008	TT	GG	GG	INTERGENIC			
SNP_113414_A_13266	NW_004519359.1	scaffold5186	13266	AA	TT	TT	INTERGENIC			
SNP_113415_A_13533	NW_004519359.1	scaffold5186	13533	TT	CC	CC	INTERGENIC			
SNP_113416_A_13933	NW_004519359.1	scaffold5186	13933	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113417_A_14296	NW_004519359.1	scaffold5186	14296	CC	GG	GG	INTERGENIC			
SNP_113418_A_14796	NW_004519359.1	scaffold5186	14796	TT	CC	CC	INTERGENIC			
SNP_113419_A_14932	NW_004519359.1	scaffold5186	14932	TT	CC	CC	INTERGENIC			
SNP_113420_A_15096	NW_004519359.1	scaffold5186	15096	GG	AA	AA	INTERGENIC			
SNP_113421_A_15165	NW_004519359.1	scaffold5186	15165	GG	TT	TT	INTERGENIC			
SNP_113422_A_15295	NW_004519359.1	scaffold5186	15295	GG	CC	CC	INTERGENIC			
SNP_113423_A_15449	NW_004519359.1	scaffold5186	15449	CC	TT	TT	INTERGENIC			
SNP_113424_A_15492	NW_004519359.1	scaffold5186	15492	TT	GG	GG	INTERGENIC			
SNP_113425_A_15573	NW_004519359.1	scaffold5186	15573	CC	TT	TT	INTERGENIC			
SNP_113426_A_15678	NW_004519359.1	scaffold5186	15678	AA	CC	CC	INTERGENIC			
SNP_113427_A_15817	NW_004519359.1	scaffold5186	15817	TT	CC	CC	INTERGENIC			
SNP_113428_A_15842	NW_004519359.1	scaffold5186	15842	CC	TT	TT	INTERGENIC			
SNP_113429_A_15863	NW_004519359.1	scaffold5186	15863	GG	AA	AA	INTERGENIC			
SNP_113430_A_15952	NW_004519359.1	scaffold5186	15952	CC	GG	GG	INTERGENIC			
SNP_113431_A_16040	NW_004519359.1	scaffold5186	16040	CC	GG	GG	INTERGENIC			
SNP_113432_A_16108	NW_004519359.1	scaffold5186	16108	CC	TT	TT	INTERGENIC			
SNP_113433_A_16226	NW_004519359.1	scaffold5186	16226	CC	GG	GG	INTERGENIC			
SNP_113434_A_16236	NW_004519359.1	scaffold5186	16236	CC	AA	AA	INTERGENIC			
SNP_113435_A_16634	NW_004519359.1	scaffold5186	16634	AA	TT	TT	INTERGENIC			
SNP_113436_A_16884	NW_004519359.1	scaffold5186	16884	TT	CC	CC	INTERGENIC			
SNP_113437_A_16956	NW_004519359.1	scaffold5186	16956	AA	GG	GG	INTERGENIC			
SNP_113438_A_16969	NW_004519359.1	scaffold5186	16969	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113439_A_17122	NW_004519359.1	scaffold5186	17122	TT	CC	CC	INTERGENIC			
SNP_113440_A_17277	NW_004519359.1	scaffold5186	17277	CC	GG	GG	INTERGENIC			
SNP_113441_A_19307	NW_004519359.1	scaffold5186	19307	AA	TT	TT	INTERGENIC			
SNP_113442_A_19656	NW_004519359.1	scaffold5186	19656	TT	CC	CC	INTERGENIC			
SNP_113443_A_19942	NW_004519359.1	scaffold5186	19942	AA	CC	CC	INTERGENIC			
SNP_113444_A_20213	NW_004519359.1	scaffold5186	20213	TT	AA	AA	INTERGENIC			
SNP_113445_A_20312	NW_004519359.1	scaffold5186	20312	GG	AA	AA	INTERGENIC			
SNP_113446_A_20338	NW_004519359.1	scaffold5186	20338	AA	GG	GG	INTERGENIC			
SNP_113447_A_20452	NW_004519359.1	scaffold5186	20452	AA	CC	CC	INTERGENIC			
SNP_113448_A_20601	NW_004519359.1	scaffold5186	20601	AA	GG	GG	INTERGENIC			
SNP_113449_A_20646	NW_004519359.1	scaffold5186	20646	GG	CC	CC	INTERGENIC			
SNP_113450_A_20752	NW_004519359.1	scaffold5186	20752	CC	TT	TT	INTERGENIC			
SNP_113451_A_20804	NW_004519359.1	scaffold5186	20804	AA	TT	TT	INTERGENIC			
SNP_113452_A_21198	NW_004519359.1	scaffold5186	21198	TT	GG	GG	INTERGENIC			
SNP_113453_A_21300	NW_004519359.1	scaffold5186	21300	AA	CC	CC	INTERGENIC			
SNP_113454_A_23550	NW_004519359.1	scaffold5186	23550	CC	AA	AA	INTERGENIC			
SNP_113455_A_23576	NW_004519359.1	scaffold5186	23576	GG	TT	TT	INTERGENIC			
SNP_113456_A_23868	NW_004519359.1	scaffold5186	23868	TT	CC	CC	INTERGENIC			
SNP_113457_A_26816	NW_004519359.1	scaffold5186	26816	AA	GG	GG	INTERGENIC			
SNP_113458_A_27014	NW_004519359.1	scaffold5186	27014	AA	GG	GG	INTERGENIC			
SNP_113459_A_27055	NW_004519359.1	scaffold5186	27055	CC	TT	TT	INTERGENIC			
SNP_113461_A_5234	NW_004519364.1	scaffold5195	5234	AA	GG	GG	DRR	101410586	transfer RNA asparagine (anticodon GUU)	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113462_A_5274	NW_004519364.1	scaffold5195	5274	TT	CC	CC	DRR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_113463_A_5332	NW_004519364.1	scaffold5195	5332	TT	CC	CC	DRR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_113464_A_5333	NW_004519364.1	scaffold5195	5333	TT	AA	AA	DRR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_113465_A_6370	NW_004519364.1	scaffold5195	6370	CC	AA	AA	URR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_113466_A_6374	NW_004519364.1	scaffold5195	6374	CC	GG	GG	URR	101410586	transfer RNA asparagine (anticodon GUU)
SNP_113468_A_1243	NW_004519365.1	scaffold5198	1243	GG	TT	TT	INTERGENIC		
SNP_113469_A_4038	NW_004519365.1	scaffold5198	4038	CC	TT	TT	INTERGENIC		
SNP_113470_A_4039	NW_004519365.1	scaffold5198	4039	GG	AA	AA	INTERGENIC		
SNP_113471_A_4043	NW_004519365.1	scaffold5198	4043	CC	GG	GG	INTERGENIC		
SNP_113472_A_4044	NW_004519365.1	scaffold5198	4044	AA	TT	TT	INTERGENIC		
SNP_113474_A_385	NW_004519366.1	scaffold5199	385	TT	CC	CC	INTERGENIC		
SNP_113475_A_451	NW_004519366.1	scaffold5199	451	TT	GG	GG	INTERGENIC		
SNP_113476_A_829	NW_004519366.1	scaffold5199	829	AA	TT	TT	INTERGENIC		
SNP_113477_A_312	NW_004519367.1	scaffold5200	312	AA	GG	GG	INTERGENIC		
SNP_113478_A_2081	NW_004519368.1	scaffold5201	2081	CC	GG	GG	INTERGENIC		
SNP_113479_A_106	NW_004519369.1	scaffold5202	106	AA	GG	GG	INTERGENIC		
SNP_113480_A_209	NW_004519369.1	scaffold5202	209	TT	CC	CC	INTERGENIC		
SNP_113482_A_375	NW_004519369.1	scaffold5202	375	GG	TT	TT	INTERGENIC		
SNP_113483_A_491	NW_004519370.1	scaffold5204	491	AA	GG	GG	INTERGENIC		
SNP_113484_A_987	NW_004519370.1	scaffold5204	987	TT	AA	AA	INTERGENIC		
SNP_113485_A_1000	NW_004519370.1	scaffold5204	1000	TT	AA	AA	INTERGENIC		
SNP_113486_A_1039	NW_004519370.1	scaffold5204	1039	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113487_A_1048	NW_004519370.1	scaffold5204	1048	AA	CC	CC	INTERGENIC			
SNP_113488_A_1057	NW_004519370.1	scaffold5204	1057	GG	AA	AA	INTERGENIC			
SNP_113489_A_1270	NW_004519370.1	scaffold5204	1270	AA	GG	GG	INTERGENIC			
SNP_113490_A_1317	NW_004519370.1	scaffold5204	1317	AA	GG	GG	INTERGENIC			
SNP_113491_A_161	NW_004519372.1	scaffold5207	161	CC	TT	TT	INTERGENIC			
SNP_113492_A_621	NW_004519372.1	scaffold5207	621	TT	GG	GG	INTERGENIC			
SNP_113493_A_749	NW_004519372.1	scaffold5207	749	CC	TT	TT	INTERGENIC			
SNP_113494_A_751	NW_004519372.1	scaffold5207	751	TT	CC	CC	INTERGENIC			
SNP_113495_A_1240	NW_004519374.1	scaffold5209	1240	TT	CC	CC	INTERGENIC			
SNP_113496_A_1268	NW_004519374.1	scaffold5209	1268	CC	TT	TT	INTERGENIC			
SNP_113497_A_1279	NW_004519374.1	scaffold5209	1279	AA	TT	TT	INTERGENIC			
SNP_113498_A_948	NW_004519376.1	scaffold5211	948	AA	TT	TT	INTERGENIC			
SNP_113499_A_1179	NW_004519376.1	scaffold5211	1179	GG	TT	TT	INTERGENIC			
SNP_113500_A_1281	NW_004519376.1	scaffold5211	1281	CC	TT	TT	INTERGENIC			
SNP_113501_A_1357	NW_004519376.1	scaffold5211	1357	CC	AA	AA	INTERGENIC			
SNP_113502_A_1659	NW_004519376.1	scaffold5211	1659	CC	TT	TT	INTERGENIC			
SNP_113503_A_1804	NW_004519376.1	scaffold5211	1804	TT	CC	CC	INTERGENIC			
SNP_113504_A_1869	NW_004519376.1	scaffold5211	1869	CC	TT	TT	INTERGENIC			
SNP_113505_A_2216	NW_004519376.1	scaffold5211	2216	AA	GG	GG	INTERGENIC			
SNP_113506_A_2317	NW_004519376.1	scaffold5211	2317	TT	CC	CC	INTERGENIC			
SNP_113507_A_2386	NW_004519376.1	scaffold5211	2386	AA	GG	GG	INTERGENIC			
SNP_113508_A_2545	NW_004519376.1	scaffold5211	2545	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113509_A_2738	NW_004519376.1	scaffold5211	2738	GG	TT	TT	INTERGENIC			
SNP_113510_A_2782	NW_004519376.1	scaffold5211	2782	CC	AA	AA	INTERGENIC			
SNP_113511_A_2893	NW_004519376.1	scaffold5211	2893	GG	AA	AA	INTERGENIC			
SNP_113512_A_2928	NW_004519376.1	scaffold5211	2928	CC	GG	GG	INTERGENIC			
SNP_113513_A_3088	NW_004519376.1	scaffold5211	3088	AA	GG	GG	INTERGENIC			
SNP_113514_A_3382	NW_004519376.1	scaffold5211	3382	TT	CC	CC	INTERGENIC			
SNP_113515_A_3522	NW_004519376.1	scaffold5211	3522	GG	AA	AA	INTERGENIC			
SNP_113516_A_3657	NW_004519376.1	scaffold5211	3657	CC	TT	TT	INTERGENIC			
SNP_113518_A_3778	NW_004519376.1	scaffold5211	3778	GG	TT	TT	INTERGENIC			
SNP_113519_A_3789	NW_004519376.1	scaffold5211	3789	AA	CC	CC	INTERGENIC			
SNP_113520_A_3816	NW_004519376.1	scaffold5211	3816	CC	AA	AA	INTERGENIC			
SNP_113521_A_3850	NW_004519376.1	scaffold5211	3850	CC	TT	TT	INTERGENIC			
SNP_113522_A_3869	NW_004519376.1	scaffold5211	3869	AA	CC	CC	INTERGENIC			
SNP_113523_A_4013	NW_004519376.1	scaffold5211	4013	GG	AA	AA	INTERGENIC			
SNP_113524_A_4094	NW_004519376.1	scaffold5211	4094	GG	AA	AA	INTERGENIC			
SNP_113525_A_4104	NW_004519376.1	scaffold5211	4104	TT	CC	CC	INTERGENIC			
SNP_113526_A_4565	NW_004519376.1	scaffold5211	4565	AA	GG	GG	INTERGENIC			
SNP_113527_A_4900	NW_004519376.1	scaffold5211	4900	GG	AA	AA	INTERGENIC			
SNP_113528_A_4971	NW_004519376.1	scaffold5211	4971	AA	GG	GG	INTERGENIC			
SNP_113529_A_5329	NW_004519376.1	scaffold5211	5329	AA	GG	GG	INTERGENIC			
SNP_113530_A_5474	NW_004519376.1	scaffold5211	5474	TT	CC	CC	INTERGENIC			
SNP_113531_A_5720	NW_004519376.1	scaffold5211	5720	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113532_A_5808	NW_004519376.1	scaffold5211	5808	CC	GG	GG	INTERGENIC			
SNP_113533_A_499	NW_004519381.1	scaffold5222	499	AA	TT	TT	INTERGENIC			
SNP_113534_A_546	NW_004519381.1	scaffold5222	546	CC	TT	TT	INTERGENIC			
SNP_113535_A_569	NW_004519381.1	scaffold5222	569	CC	GG	GG	INTERGENIC			
SNP_113536_A_62	NW_004519388.1	scaffold5229	62	GG	CC	CC	INTERGENIC			
SNP_113537_A_119	NW_004519390.1	scaffold5234	119	TT	CC	CC	INTERGENIC			
SNP_113538_A_444	NW_004519390.1	scaffold5234	444	GG	TT	TT	INTERGENIC			
SNP_113540_A_461	NW_004519390.1	scaffold5234	461	GG	AA	AA	INTERGENIC			
SNP_113541_A_755	NW_004519390.1	scaffold5234	755	GG	TT	TT	INTERGENIC			
SNP_113542_A_800	NW_004519390.1	scaffold5234	800	GG	AA	AA	INTERGENIC			
SNP_113543_A_814	NW_004519390.1	scaffold5234	814	AA	GG	GG	INTERGENIC			
SNP_113544_A_821	NW_004519390.1	scaffold5234	821	AA	CC	CC	INTERGENIC			
SNP_113545_A_1448	NW_004519393.1	scaffold5238	1448	CC	TT	TT	INTERGENIC			
SNP_113546_A_1759	NW_004519393.1	scaffold5238	1759	CC	TT	TT	INTERGENIC			
SNP_113547_A_3686	NW_004519394.1	scaffold5239	3686	AA	CC	CC	INTERGENIC			
SNP_113548_A_3687	NW_004519394.1	scaffold5239	3687	TT	CC	CC	INTERGENIC			
SNP_113549_A_6352	NW_004519394.1	scaffold5239	6352	TT	CC	CC	INTERGENIC			
SNP_113550_A_210	NW_004519398.1	scaffold5251	210	GG	AA	AA	INTERGENIC			
SNP_113551_A_261	NW_004519398.1	scaffold5251	261	CC	TT	TT	INTERGENIC			
SNP_113552_A_265	NW_004519398.1	scaffold5251	265	AA	CC	CC	INTERGENIC			
SNP_113553_A_311	NW_004519398.1	scaffold5251	311	CC	TT	TT	INTERGENIC			
SNP_113554_A_454	NW_004519398.1	scaffold5251	454	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113555_A_489	NW_004519398.1	scaffold5251	489	CC	TT	TT	INTERGENIC			
SNP_113556_A_620	NW_004519398.1	scaffold5251	620	CC	TT	TT	INTERGENIC			
SNP_113557_A_665	NW_004519398.1	scaffold5251	665	TT	CC	CC	INTERGENIC			
SNP_113558_A_804	NW_004519398.1	scaffold5251	804	CC	TT	TT	INTERGENIC			
SNP_113559_A_875	NW_004519398.1	scaffold5251	875	GG	AA	AA	INTERGENIC			
SNP_113560_A_1054	NW_004519398.1	scaffold5251	1054	GG	AA	AA	INTERGENIC			
SNP_113561_A_1173	NW_004519398.1	scaffold5251	1173	TT	CC	CC	INTERGENIC			
SNP_113563_A_1207	NW_004519398.1	scaffold5251	1207	CC	GG	GG	INTERGENIC			
SNP_113564_A_1249	NW_004519398.1	scaffold5251	1249	CC	AA	AA	INTERGENIC			
SNP_113565_A_2185	NW_004519398.1	scaffold5251	2185	AA	GG	GG	INTERGENIC			
SNP_113566_A_2220	NW_004519398.1	scaffold5251	2220	GG	CC	CC	INTERGENIC			
SNP_113567_A_2225	NW_004519398.1	scaffold5251	2225	AA	GG	GG	INTERGENIC			
SNP_113568_A_2226	NW_004519398.1	scaffold5251	2226	CC	TT	TT	INTERGENIC			
SNP_113569_A_2281	NW_004519398.1	scaffold5251	2281	TT	GG	GG	INTERGENIC			
SNP_113570_A_1827	NW_004519402.1	scaffold5258	1827	GG	CC	CC	INTERGENIC			
SNP_113571_A_1459	NW_004519403.1	scaffold5259	1459	AA	CC	CC	INTERGENIC			
SNP_113572_A_1514	NW_004519403.1	scaffold5259	1514	TT	GG	GG	INTERGENIC			
SNP_113573_A_1724	NW_004519403.1	scaffold5259	1724	GG	TT	TT	INTERGENIC			
SNP_113574_A_179	NW_004519404.1	scaffold5261	179	AA	CC	CC	INTERGENIC			
SNP_113575_A_10220	NW_004519404.1	scaffold5261	10220	TT	CC	CC	INTERGENIC			
SNP_113576_A_10221	NW_004519404.1	scaffold5261	10221	AA	GG	GG	INTERGENIC			
SNP_113577_A_457	NW_004519405.1	scaffold5262	457	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113578_A_868	NW_004519405.1	scaffold5262	868	CC	TT	TT	INTERGENIC			
SNP_113579_A_981	NW_004519405.1	scaffold5262	981	AA	GG	GG	INTERGENIC			
SNP_113580_A_1010	NW_004519405.1	scaffold5262	1010	AA	GG	GG	INTERGENIC			
SNP_113581_A_1089	NW_004519405.1	scaffold5262	1089	AA	GG	GG	INTERGENIC			
SNP_113582_A_1152	NW_004519405.1	scaffold5262	1152	TT	CC	CC	INTERGENIC			
SNP_113583_A_1274	NW_004519405.1	scaffold5262	1274	AA	GG	GG	INTERGENIC			
SNP_113584_A_1300	NW_004519405.1	scaffold5262	1300	GG	AA	AA	INTERGENIC			
SNP_113585_A_1326	NW_004519405.1	scaffold5262	1326	AA	CC	CC	INTERGENIC			
SNP_113586_A_1595	NW_004519405.1	scaffold5262	1595	AA	GG	GG	INTERGENIC			
SNP_113587_A_4729	NW_004519405.1	scaffold5262	4729	CC	AA	AA	INTERGENIC			
SNP_113588_A_4776	NW_004519405.1	scaffold5262	4776	TT	AA	AA	INTERGENIC			
SNP_113589_A_4990	NW_004519405.1	scaffold5262	4990	AA	CC	CC	INTERGENIC			
SNP_113590_A_25619	NW_004519406.1	scaffold5263	25619	TT	CC	CC	INTERGENIC			
SNP_113591_A_25627	NW_004519406.1	scaffold5263	25627	GG	CC	CC	INTERGENIC			
SNP_113592_A_25629	NW_004519406.1	scaffold5263	25629	CC	TT	TT	INTERGENIC			
SNP_113593_A_25645	NW_004519406.1	scaffold5263	25645	AA	TT	TT	INTERGENIC			
SNP_113594_A_25667	NW_004519406.1	scaffold5263	25667	CC	TT	TT	INTERGENIC			
SNP_113595_A_26072	NW_004519406.1	scaffold5263	26072	AA	GG	GG	INTERGENIC			
SNP_113596_A_26105	NW_004519406.1	scaffold5263	26105	AA	GG	GG	INTERGENIC			
SNP_113597_A_26421	NW_004519406.1	scaffold5263	26421	AA	GG	GG	INTERGENIC			
SNP_113598_A_26511	NW_004519406.1	scaffold5263	26511	CC	TT	TT	INTERGENIC			
SNP_113599_A_26682	NW_004519406.1	scaffold5263	26682	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113600_A_26914	NW_004519406.1	scaffold5263	26914	CC	TT	TT	INTERGENIC			
SNP_113601_A_27039	NW_004519406.1	scaffold5263	27039	TT	CC	CC	INTERGENIC			
SNP_113602_A_27401	NW_004519406.1	scaffold5263	27401	AA	GG	GG	INTERGENIC			
SNP_113603_A_27543	NW_004519406.1	scaffold5263	27543	AA	TT	TT	INTERGENIC			
SNP_113604_A_27663	NW_004519406.1	scaffold5263	27663	CC	GG	GG	INTERGENIC			
SNP_113605_A_27873	NW_004519406.1	scaffold5263	27873	AA	GG	GG	INTERGENIC			
SNP_113606_A_311	NW_004519410.1	scaffold5269	311	TT	CC	CC	INTERGENIC			
SNP_113607_A_3913	NW_004519413.1	scaffold5272	3913	TT	AA	AA	INTERGENIC			
SNP_113608_A_3914	NW_004519413.1	scaffold5272	3914	TT	CC	CC	INTERGENIC			
SNP_113609_A_417	NW_004519416.1	scaffold5275	417	AA	GG	GG	INTERGENIC			
SNP_113611_A_437	NW_004519416.1	scaffold5275	437	TT	CC	CC	INTERGENIC			
SNP_113612_A_466	NW_004519416.1	scaffold5275	466	CC	AA	AA	INTERGENIC			
SNP_113613_A_467	NW_004519416.1	scaffold5275	467	AA	GG	GG	INTERGENIC			
SNP_113614_A_490	NW_004519416.1	scaffold5275	490	AA	CC	CC	INTERGENIC			
SNP_113615_A_517	NW_004519416.1	scaffold5275	517	CC	AA	AA	INTERGENIC			
SNP_113616_A_679	NW_004519416.1	scaffold5275	679	AA	GG	GG	INTERGENIC			
SNP_113617_A_691	NW_004519416.1	scaffold5275	691	AA	GG	GG	INTERGENIC			
SNP_113618_A_962	NW_004519416.1	scaffold5275	962	AA	GG	GG	INTERGENIC			
SNP_113619_A_973	NW_004519416.1	scaffold5275	973	TT	AA	AA	INTERGENIC			
SNP_113620_A_982	NW_004519416.1	scaffold5275	982	CC	AA	AA	INTERGENIC			
SNP_113621_A_1022	NW_004519416.1	scaffold5275	1022	TT	CC	CC	INTERGENIC			
SNP_113622_A_1068	NW_004519416.1	scaffold5275	1068	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113623_A_1182	NW_004519416.1	scaffold5275	1182	GG	TT	TT	INTERGENIC			
SNP_113624_A_762	NW_004519421.1	scaffold5280	762	TT	CC	CC	INTERGENIC			
SNP_113625_A_775	NW_004519421.1	scaffold5280	775	TT	AA	AA	INTERGENIC			
SNP_113626_A_5735	NW_004519421.1	scaffold5280	5735	CC	AA	AA	INTERGENIC			
SNP_113627_A_5988	NW_004519421.1	scaffold5280	5988	AA	GG	GG	INTERGENIC			
SNP_113628_A_6007	NW_004519421.1	scaffold5280	6007	TT	CC	CC	INTERGENIC			
SNP_113629_A_6290	NW_004519421.1	scaffold5280	6290	TT	AA	AA	INTERGENIC			
SNP_113630_A_6373	NW_004519421.1	scaffold5280	6373	AA	GG	GG	INTERGENIC			
SNP_113631_A_6425	NW_004519421.1	scaffold5280	6425	GG	CC	CC	INTERGENIC			
SNP_113632_A_6473	NW_004519421.1	scaffold5280	6473	CC	TT	TT	INTERGENIC			
SNP_113633_A_6602	NW_004519421.1	scaffold5280	6602	TT	CC	CC	INTERGENIC			
SNP_113634_A_6628	NW_004519421.1	scaffold5280	6628	TT	CC	CC	INTERGENIC			
SNP_113635_A_6664	NW_004519421.1	scaffold5280	6664	GG	AA	AA	INTERGENIC			
SNP_113636_A_6677	NW_004519421.1	scaffold5280	6677	CC	TT	TT	INTERGENIC			
SNP_113637_A_6679	NW_004519421.1	scaffold5280	6679	CC	GG	GG	INTERGENIC			
SNP_113638_A_6704	NW_004519421.1	scaffold5280	6704	AA	TT	TT	INTERGENIC			
SNP_113639_A_6746	NW_004519421.1	scaffold5280	6746	AA	GG	GG	INTERGENIC			
SNP_113640_A_6816	NW_004519421.1	scaffold5280	6816	TT	AA	AA	INTERGENIC			
SNP_113641_A_6857	NW_004519421.1	scaffold5280	6857	CC	GG	GG	INTERGENIC			
SNP_113642_A_7015	NW_004519421.1	scaffold5280	7015	TT	CC	CC	INTERGENIC			
SNP_113643_A_7032	NW_004519421.1	scaffold5280	7032	AA	CC	CC	INTERGENIC			
SNP_113644_A_101	NW_004519424.1	scaffold5285	101	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113645_A_4788	NW_004519428.1	scaffold5291	4788	GG	AA	AA	INTERGENIC			
SNP_113646_A_6767	NW_004519433.1	scaffold5297	6767	TT	CC	CC	INTERGENIC			
SNP_113647_A_7613	NW_004519433.1	scaffold5297	7613	CC	TT	TT	INTERGENIC			
SNP_113649_A_7864	NW_004519433.1	scaffold5297	7864	CC	AA	AA	INTERGENIC			
SNP_113650_A_7968	NW_004519433.1	scaffold5297	7968	AA	GG	GG	INTERGENIC			
SNP_113651_A_71	NW_004519436.1	scaffold5302	71	TT	GG	GG	INTERGENIC			
SNP_113652_A_74	NW_004519436.1	scaffold5302	74	AA	GG	GG	INTERGENIC			
SNP_113653_A_424	NW_004519436.1	scaffold5302	424	CC	TT	TT	INTERGENIC			
SNP_113654_A_857	NW_004519439.1	scaffold5305	857	CC	TT	TT	INTERGENIC			
SNP_113655_A_7043	NW_004519440.1	scaffold5306	7043	TT	CC	CC	INTERGENIC			
SNP_113656_A_7055	NW_004519440.1	scaffold5306	7055	TT	CC	CC	INTERGENIC			
SNP_113657_A_7073	NW_004519440.1	scaffold5306	7073	CC	GG	GG	INTERGENIC			
SNP_113658_A_7348	NW_004519440.1	scaffold5306	7348	GG	AA	AA	INTERGENIC			
SNP_113660_A_11044	NW_004519440.1	scaffold5306	11044	TT	CC	CC	DRR	101492084	E3 ubiquitin-protein ligase RLIM-like	
SNP_113661_A_11047	NW_004519440.1	scaffold5306	11047	AA	CC	CC	DRR	101492084	E3 ubiquitin-protein ligase RLIM-like	
SNP_113662_A_11228	NW_004519440.1	scaffold5306	11228	CC	AA	AA	DRR	101492084	E3 ubiquitin-protein ligase RLIM-like	
SNP_113663_A_14668	NW_004519440.1	scaffold5306	14668	CC	TT	TT	INTERGENIC			
SNP_113664_A_14966	NW_004519440.1	scaffold5306	14966	GG	AA	AA	INTERGENIC			
SNP_113665_A_15002	NW_004519440.1	scaffold5306	15002	GG	AA	AA	INTERGENIC			
SNP_113666_A_15062	NW_004519440.1	scaffold5306	15062	AA	GG	GG	INTERGENIC			
SNP_113667_A_15101	NW_004519440.1	scaffold5306	15101	GG	AA	AA	INTERGENIC			
SNP_113668_A_15106	NW_004519440.1	scaffold5306	15106	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113669_A_2002	NW_004519441.1	scaffold5307	2002	AA	GG	GG	INTERGENIC			
SNP_113670_A_2062	NW_004519441.1	scaffold5307	2062	AA	GG	GG	INTERGENIC			
SNP_113671_A_2441	NW_004519441.1	scaffold5307	2441	CC	GG	GG	INTERGENIC			
SNP_113672_A_2448	NW_004519441.1	scaffold5307	2448	GG	CC	CC	INTERGENIC			
SNP_113673_A_2618	NW_004519441.1	scaffold5307	2618	CC	GG	GG	INTERGENIC			
SNP_113674_A_3931	NW_004519441.1	scaffold5307	3931	GG	CC	CC	INTERGENIC			
SNP_113675_A_4459	NW_004519441.1	scaffold5307	4459	AA	GG	GG	INTERGENIC			
SNP_113676_A_4949	NW_004519441.1	scaffold5307	4949	AA	CC	CC	INTERGENIC			
SNP_113677_A_4966	NW_004519441.1	scaffold5307	4966	AA	GG	GG	INTERGENIC			
SNP_113678_A_4968	NW_004519441.1	scaffold5307	4968	TT	AA	AA	INTERGENIC			
SNP_113679_A_5241	NW_004519441.1	scaffold5307	5241	TT	CC	CC	INTERGENIC			
SNP_113680_A_5302	NW_004519441.1	scaffold5307	5302	AA	GG	GG	INTERGENIC			
SNP_113681_A_5321	NW_004519441.1	scaffold5307	5321	CC	TT	TT	INTERGENIC			
SNP_113682_A_5381	NW_004519441.1	scaffold5307	5381	AA	GG	GG	INTERGENIC			
SNP_113683_A_6219	NW_004519441.1	scaffold5307	6219	AA	GG	GG	INTERGENIC			
SNP_113684_A_6233	NW_004519441.1	scaffold5307	6233	TT	CC	CC	INTERGENIC			
SNP_113685_A_6550	NW_004519441.1	scaffold5307	6550	GG	AA	AA	INTERGENIC			
SNP_113686_A_6575	NW_004519441.1	scaffold5307	6575	AA	GG	GG	INTERGENIC			
SNP_113687_A_6616	NW_004519441.1	scaffold5307	6616	AA	TT	TT	INTERGENIC			
SNP_113688_A_396	NW_004519446.1	scaffold5313	396	AA	GG	GG	INTERGENIC			
SNP_113689_A_637	NW_004519446.1	scaffold5313	637	AA	GG	GG	INTERGENIC			
SNP_113690_A_644	NW_004519446.1	scaffold5313	644	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113691_A_22096	NW_004519448.1	scaffold5321	22096	TT	CC	CC	INTERGENIC			
SNP_113693_A_43908	NW_004519448.1	scaffold5321	43908	TT	GG	GG	INTERGENIC			
SNP_113694_A_425	NW_004519452.1	scaffold5326	425	AA	GG	GG	INTERGENIC			
SNP_113695_A_466	NW_004519452.1	scaffold5326	466	CC	TT	TT	INTERGENIC			
SNP_113696_A_484	NW_004519452.1	scaffold5326	484	TT	AA	AA	INTERGENIC			
SNP_113697_A_500	NW_004519452.1	scaffold5326	500	CC	TT	TT	INTERGENIC			
SNP_113698_A_810	NW_004519456.1	scaffold5331	810	TT	AA	AA	INTERGENIC			
SNP_113699_A_1152	NW_004519457.1	scaffold5333	1152	TT	AA	AA	INTERGENIC			
SNP_113700_A_259	NW_004519459.1	scaffold5335	259	CC	AA	AA	INTERGENIC			
SNP_113701_A_614	NW_004519460.1	scaffold5338	614	CC	TT	TT	INTERGENIC			
SNP_113702_A_663	NW_004519460.1	scaffold5338	663	GG	TT	TT	INTERGENIC			
SNP_113703_A_772	NW_004519460.1	scaffold5338	772	CC	TT	TT	INTERGENIC			
SNP_113704_A_839	NW_004519460.1	scaffold5338	839	GG	TT	TT	INTERGENIC			
SNP_113705_A_985	NW_004519461.1	scaffold5340	985	TT	CC	CC	INTERGENIC			
SNP_113706_A_1285	NW_004519461.1	scaffold5340	1285	AA	GG	GG	INTERGENIC			
SNP_113708_A_1314	NW_004519461.1	scaffold5340	1314	TT	CC	CC	INTERGENIC			
SNP_113710_A_1357	NW_004519461.1	scaffold5340	1357	CC	TT	TT	INTERGENIC			
SNP_113711_A_1366	NW_004519461.1	scaffold5340	1366	CC	TT	TT	INTERGENIC			
SNP_113712_A_1384	NW_004519461.1	scaffold5340	1384	AA	GG	GG	INTERGENIC			
SNP_113713_A_1414	NW_004519461.1	scaffold5340	1414	TT	CC	CC	INTERGENIC			
SNP_113714_A_1420	NW_004519461.1	scaffold5340	1420	GG	AA	AA	INTERGENIC			
SNP_113715_A_1424	NW_004519461.1	scaffold5340	1424	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113716_A_1438	NW_004519461.1	scaffold5340	1438	AA	GG	GG	INTERGENIC			
SNP_113717_A_90	NW_004519470.1	scaffold5360	90	TT	GG	GG	INTERGENIC			
SNP_113718_A_272	NW_004519470.1	scaffold5360	272	TT	GG	GG	INTERGENIC			
SNP_113719_A_280	NW_004519470.1	scaffold5360	280	CC	AA	AA	INTERGENIC			
SNP_113721_A_676	NW_004519470.1	scaffold5360	676	CC	AA	AA	INTERGENIC			
SNP_113722_A_724	NW_004519470.1	scaffold5360	724	AA	GG	GG	INTERGENIC			
SNP_113723_A_739	NW_004519470.1	scaffold5360	739	CC	TT	TT	INTERGENIC			
SNP_113724_A_751	NW_004519471.1	scaffold5361	751	AA	TT	TT	INTERGENIC			
SNP_113725_A_122	NW_004519479.1	scaffold5375	122	AA	TT	TT	INTERGENIC			
SNP_113726_A_5897	NW_004519481.1	scaffold5377	5897	AA	GG	GG	INTERGENIC			
SNP_113727_A_5926	NW_004519481.1	scaffold5377	5926	CC	TT	TT	INTERGENIC			
SNP_113728_A_5933	NW_004519481.1	scaffold5377	5933	TT	CC	CC	INTERGENIC			
SNP_113729_A_6181	NW_004519481.1	scaffold5377	6181	GG	AA	AA	INTERGENIC			
SNP_113730_A_6193	NW_004519481.1	scaffold5377	6193	AA	TT	TT	INTERGENIC			
SNP_113731_A_6224	NW_004519481.1	scaffold5377	6224	GG	TT	TT	INTERGENIC			
SNP_113732_A_6230	NW_004519481.1	scaffold5377	6230	AA	CC	CC	INTERGENIC			
SNP_113733_A_560	NW_004519486.1	scaffold5385	560	CC	TT	TT	INTERGENIC			
SNP_113734_A_570	NW_004519486.1	scaffold5385	570	TT	CC	CC	INTERGENIC			
SNP_113735_A_1061	NW_004519499.1	scaffold5409	1061	AA	GG	GG	INTERGENIC			
SNP_113737_A_399	NW_004519500.1	scaffold5412	399	TT	AA	AA	INTERGENIC			
SNP_113738_A_405	NW_004519500.1	scaffold5412	405	AA	GG	GG	INTERGENIC			
SNP_113739_A_10630	NW_004519501.1	scaffold5413	10630	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113740_A_661	NW_004519503.1	scaffold5416	661	CC	TT	TT	INTERGENIC			
SNP_113741_A_688	NW_004519503.1	scaffold5416	688	TT	AA	AA	INTERGENIC			
SNP_113742_A_706	NW_004519503.1	scaffold5416	706	CC	AA	AA	INTERGENIC			
SNP_113743_A_710	NW_004519503.1	scaffold5416	710	AA	CC	CC	INTERGENIC			
SNP_113744_A_724	NW_004519503.1	scaffold5416	724	GG	AA	AA	INTERGENIC			
SNP_113745_A_760	NW_004519503.1	scaffold5416	760	AA	GG	GG	INTERGENIC			
SNP_113746_A_766	NW_004519503.1	scaffold5416	766	TT	CC	CC	INTERGENIC			
SNP_113747_A_785	NW_004519503.1	scaffold5416	785	AA	CC	CC	INTERGENIC			
SNP_113748_A_1764	NW_004519504.1	scaffold5418	1764	TT	CC	CC	INTERGENIC			
SNP_113749_A_1785	NW_004519504.1	scaffold5418	1785	AA	GG	GG	INTERGENIC			
SNP_113750_A_1820	NW_004519504.1	scaffold5418	1820	TT	GG	GG	INTERGENIC			
SNP_113751_A_347	NW_004519505.1	scaffold5420	347	AA	TT	TT	INTERGENIC			
SNP_113752_A_490	NW_004519505.1	scaffold5420	490	AA	TT	TT	INTERGENIC			
SNP_113753_A_608	NW_004519505.1	scaffold5420	608	AA	TT	TT	INTERGENIC			
SNP_113754_A_660	NW_004519505.1	scaffold5420	660	TT	AA	AA	INTERGENIC			
SNP_113756_A_705	NW_004519505.1	scaffold5420	705	AA	GG	GG	INTERGENIC			
SNP_113757_A_867	NW_004519505.1	scaffold5420	867	TT	CC	CC	INTERGENIC			
SNP_113758_A_918	NW_004519505.1	scaffold5420	918	AA	GG	GG	INTERGENIC			
SNP_113759_A_960	NW_004519505.1	scaffold5420	960	GG	TT	TT	INTERGENIC			
SNP_113760_A_1013	NW_004519505.1	scaffold5420	1013	TT	AA	AA	INTERGENIC			
SNP_113761_A_1332	NW_004519505.1	scaffold5420	1332	TT	GG	GG	INTERGENIC			
SNP_113762_A_1345	NW_004519505.1	scaffold5420	1345	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113763_A_1431	NW_004519505.1	scaffold5420	1431	TT	GG	GG	INTERGENIC			
SNP_113764_A_235	NW_004519511.1	scaffold5434	235	GG	TT	TT	INTERGENIC			
SNP_113765_A_252	NW_004519511.1	scaffold5434	252	TT	CC	CC	INTERGENIC			
SNP_113766_A_288	NW_004519511.1	scaffold5434	288	AA	CC	CC	INTERGENIC			
SNP_113767_A_570	NW_004519511.1	scaffold5434	570	TT	GG	GG	INTERGENIC			
SNP_113768_A_818	NW_004519513.1	scaffold5438	818	GG	TT	TT	INTERGENIC			
SNP_113769_A_1185	NW_004519513.1	scaffold5438	1185	AA	TT	TT	INTERGENIC			
SNP_113770_A_1238	NW_004519513.1	scaffold5438	1238	GG	AA	AA	INTERGENIC			
SNP_113771_A_1276	NW_004519513.1	scaffold5438	1276	TT	CC	CC	INTERGENIC			
SNP_113772_A_2128	NW_004519520.1	scaffold5449	2128	AA	TT	TT	INTERGENIC			
SNP_113773_A_2199	NW_004519520.1	scaffold5449	2199	TT	GG	GG	INTERGENIC			
SNP_113774_A_2219	NW_004519520.1	scaffold5449	2219	GG	AA	AA	INTERGENIC			
SNP_113775_A_2265	NW_004519520.1	scaffold5449	2265	AA	GG	GG	INTERGENIC			
SNP_113776_A_499	NW_004519523.1	scaffold5452	499	TT	AA	AA	INTERGENIC			
SNP_113777_A_593	NW_004519523.1	scaffold5452	593	AA	GG	GG	INTERGENIC			
SNP_113778_A_626	NW_004519523.1	scaffold5452	626	GG	AA	AA	INTERGENIC			
SNP_113779_A_864	NW_004519523.1	scaffold5452	864	CC	TT	TT	INTERGENIC			
SNP_113780_A_880	NW_004519523.1	scaffold5452	880	AA	GG	GG	INTERGENIC			
SNP_113781_A_907	NW_004519523.1	scaffold5452	907	AA	GG	GG	INTERGENIC			
SNP_113782_A_1017	NW_004519523.1	scaffold5452	1017	AA	GG	GG	INTERGENIC			
SNP_113783_A_1040	NW_004519523.1	scaffold5452	1040	TT	AA	AA	INTERGENIC			
SNP_113784_A_1134	NW_004519523.1	scaffold5452	1134	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113785_A_1191	NW_004519523.1	scaffold5452	1191	GG	AA	AA	INTERGENIC			
SNP_113786_A_1325	NW_004519523.1	scaffold5452	1325	CC	TT	TT	INTERGENIC			
SNP_113787_A_1475	NW_004519523.1	scaffold5452	1475	TT	CC	CC	INTERGENIC			
SNP_113788_A_1593	NW_004519523.1	scaffold5452	1593	AA	CC	CC	INTERGENIC			
SNP_113789_A_5541	NW_004519533.1	scaffold5465	5541	CC	GG	GG	INTERGENIC			
SNP_113790_A_479	NW_004519535.1	scaffold5472	479	CC	TT	TT	INTERGENIC			
SNP_113791_A_658	NW_004519535.1	scaffold5472	658	AA	GG	GG	INTERGENIC			
SNP_113792_A_673	NW_004519535.1	scaffold5472	673	AA	CC	CC	INTERGENIC			
SNP_113793_A_684	NW_004519535.1	scaffold5472	684	GG	TT	TT	INTERGENIC			
SNP_113794_A_825	NW_004519535.1	scaffold5472	825	TT	CC	CC	INTERGENIC			
SNP_113795_A_1022	NW_004519535.1	scaffold5472	1022	GG	AA	AA	INTERGENIC			
SNP_113796_A_981	NW_004519544.1	scaffold5484	981	TT	AA	AA	INTERGENIC			
SNP_113797_A_1086	NW_004519544.1	scaffold5484	1086	AA	GG	GG	INTERGENIC			
SNP_113799_A_1179	NW_004519544.1	scaffold5484	1179	TT	AA	AA	INTERGENIC			
SNP_113800_A_1222	NW_004519544.1	scaffold5484	1222	AA	TT	TT	INTERGENIC			
SNP_113801_A_1247	NW_004519544.1	scaffold5484	1247	AA	GG	GG	INTERGENIC			
SNP_113802_A_1262	NW_004519544.1	scaffold5484	1262	TT	CC	CC	INTERGENIC			
SNP_113803_A_3782	NW_004519544.1	scaffold5484	3782	TT	GG	GG	INTERGENIC			
SNP_113804_A_465	NW_004519553.1	scaffold5497	465	GG	AA	AA	INTERGENIC			
SNP_113805_A_590	NW_004519553.1	scaffold5497	590	CC	TT	TT	INTERGENIC			
SNP_113806_A_933	NW_004519553.1	scaffold5497	933	AA	GG	GG	INTERGENIC			
SNP_113807_A_948	NW_004519553.1	scaffold5497	948	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113809_A_1410	NW_004519558.1	scaffold5504	1410	TT	CC	CC	INTERGENIC			
SNP_113810_A_1421	NW_004519558.1	scaffold5504	1421	GG	CC	CC	INTERGENIC			
SNP_113811_A_1448	NW_004519558.1	scaffold5504	1448	CC	TT	TT	INTERGENIC			
SNP_113812_A_1482	NW_004519558.1	scaffold5504	1482	TT	AA	AA	INTERGENIC			
SNP_113813_A_672	NW_004519561.1	scaffold5509	672	AA	GG	GG	INTERGENIC			
SNP_113814_A_1272	NW_004519561.1	scaffold5509	1272	GG	TT	TT	INTERGENIC			
SNP_113815_A_12855	NW_004519562.1	scaffold5511	12855	GG	TT	TT	INTERGENIC			
SNP_113816_A_541	NW_004519565.1	scaffold5514	541	CC	TT	TT	INTERGENIC			
SNP_113817_A_3590	NW_004519565.1	scaffold5514	3590	AA	CC	CC	INTERGENIC			
SNP_113818_A_3843	NW_004519565.1	scaffold5514	3843	AA	CC	CC	INTERGENIC			
SNP_113819_A_3865	NW_004519565.1	scaffold5514	3865	AA	GG	GG	INTERGENIC			
SNP_113820_A_3897	NW_004519565.1	scaffold5514	3897	TT	CC	CC	INTERGENIC			
SNP_113822_A_3928	NW_004519565.1	scaffold5514	3928	TT	AA	AA	INTERGENIC			
SNP_113823_A_3966	NW_004519565.1	scaffold5514	3966	CC	TT	TT	INTERGENIC			
SNP_113824_A_3975	NW_004519565.1	scaffold5514	3975	AA	CC	CC	INTERGENIC			
SNP_113825_A_4026	NW_004519565.1	scaffold5514	4026	CC	TT	TT	INTERGENIC			
SNP_113826_A_5924	NW_004519565.1	scaffold5514	5924	AA	GG	GG	INTERGENIC			
SNP_113827_A_595	NW_004519571.1	scaffold5527	595	TT	AA	AA	INTERGENIC			
SNP_113828_A_471	NW_004519572.1	scaffold5528	471	GG	TT	TT	INTERGENIC			
SNP_113829_A_64	NW_004519579.1	scaffold5538	64	TT	CC	CC	INTERGENIC			
SNP_113830_A_97	NW_004519579.1	scaffold5538	97	TT	CC	CC	INTERGENIC			
SNP_113831_A_102	NW_004519579.1	scaffold5538	102	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113832_A_178	NW_004519579.1	scaffold5538	178	GG	AA	AA	INTERGENIC			
SNP_113833_A_224	NW_004519579.1	scaffold5538	224	TT	AA	AA	INTERGENIC			
SNP_113834_A_232	NW_004519579.1	scaffold5538	232	AA	TT	TT	INTERGENIC			
SNP_113835_A_1111	NW_004519579.1	scaffold5538	1111	AA	GG	GG	INTERGENIC			
SNP_113836_A_1112	NW_004519579.1	scaffold5538	1112	AA	TT	TT	INTERGENIC			
SNP_113837_A_1163	NW_004519579.1	scaffold5538	1163	GG	AA	AA	INTERGENIC			
SNP_113838_A_1206	NW_004519579.1	scaffold5538	1206	AA	TT	TT	INTERGENIC			
SNP_113839_A_1319	NW_004519579.1	scaffold5538	1319	AA	TT	TT	INTERGENIC			
SNP_113840_A_1994	NW_004519579.1	scaffold5538	1994	AA	TT	TT	INTERGENIC			
SNP_113841_A_35	NW_004519580.1	scaffold5541	35	CC	TT	TT	INTERGENIC			
SNP_113843_A_131	NW_004519580.1	scaffold5541	131	TT	CC	CC	INTERGENIC			
SNP_113844_A_142	NW_004519580.1	scaffold5541	142	GG	CC	CC	INTERGENIC			
SNP_113845_A_153	NW_004519580.1	scaffold5541	153	GG	TT	TT	INTERGENIC			
SNP_113846_A_388	NW_004519580.1	scaffold5541	388	GG	TT	TT	INTERGENIC			
SNP_113847_A_723	NW_004519580.1	scaffold5541	723	GG	TT	TT	INTERGENIC			
SNP_113848_A_729	NW_004519580.1	scaffold5541	729	AA	GG	GG	INTERGENIC			
SNP_113849_A_760	NW_004519580.1	scaffold5541	760	GG	AA	AA	INTERGENIC			
SNP_113850_A_778	NW_004519580.1	scaffold5541	778	TT	AA	AA	INTERGENIC			
SNP_113851_A_792	NW_004519580.1	scaffold5541	792	AA	GG	GG	INTERGENIC			
SNP_113852_A_807	NW_004519580.1	scaffold5541	807	AA	TT	TT	INTERGENIC			
SNP_113853_A_819	NW_004519580.1	scaffold5541	819	TT	CC	CC	INTERGENIC			
SNP_113854_A_875	NW_004519580.1	scaffold5541	875	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113855_A_913	NW_004519580.1	scaffold5541	913	GG	AA	AA	INTERGENIC			
SNP_113856_A_986	NW_004519580.1	scaffold5541	986	CC	AA	AA	INTERGENIC			
SNP_113857_A_1051	NW_004519580.1	scaffold5541	1051	AA	GG	GG	INTERGENIC			
SNP_113858_A_1070	NW_004519580.1	scaffold5541	1070	GG	TT	TT	INTERGENIC			
SNP_113859_A_1228	NW_004519580.1	scaffold5541	1228	AA	TT	TT	INTERGENIC			
SNP_113860_A_1332	NW_004519580.1	scaffold5541	1332	AA	CC	CC	INTERGENIC			
SNP_113861_A_64	NW_004519586.1	scaffold5549	64	TT	CC	CC	INTERGENIC			
SNP_113862_A_111	NW_004519586.1	scaffold5549	111	GG	AA	AA	INTERGENIC			
SNP_113863_A_466	NW_004519586.1	scaffold5549	466	GG	TT	TT	INTERGENIC			
SNP_113864_A_503	NW_004519586.1	scaffold5549	503	AA	TT	TT	INTERGENIC			
SNP_113866_A_116	NW_004519587.1	scaffold5551	116	AA	CC	CC	INTERGENIC			
SNP_113867_A_144	NW_004519587.1	scaffold5551	144	AA	GG	GG	INTERGENIC			
SNP_113868_A_301	NW_004519587.1	scaffold5551	301	GG	AA	AA	INTERGENIC			
SNP_113869_A_307	NW_004519587.1	scaffold5551	307	CC	GG	GG	INTERGENIC			
SNP_113870_A_357	NW_004519587.1	scaffold5551	357	AA	CC	CC	INTERGENIC			
SNP_113871_A_368	NW_004519587.1	scaffold5551	368	AA	GG	GG	INTERGENIC			
SNP_113872_A_376	NW_004519587.1	scaffold5551	376	AA	CC	CC	INTERGENIC			
SNP_113873_A_410	NW_004519587.1	scaffold5551	410	CC	TT	TT	INTERGENIC			
SNP_113874_A_507	NW_004519587.1	scaffold5551	507	TT	CC	CC	INTERGENIC			
SNP_113875_A_510	NW_004519587.1	scaffold5551	510	GG	CC	CC	INTERGENIC			
SNP_113876_A_512	NW_004519587.1	scaffold5551	512	CC	AA	AA	INTERGENIC			
SNP_113878_A_670	NW_004519587.1	scaffold5551	670	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113879_A_721	NW_004519587.1	scaffold5551	721	CC	GG	GG	INTERGENIC			
SNP_113881_A_843	NW_004519587.1	scaffold5551	843	AA	GG	GG	INTERGENIC			
SNP_113882_A_194	NW_004519589.1	scaffold5553	194	GG	AA	AA	INTERGENIC			
SNP_113883_A_232	NW_004519589.1	scaffold5553	232	TT	CC	CC	INTERGENIC			
SNP_113884_A_413	NW_004519589.1	scaffold5553	413	AA	CC	CC	INTERGENIC			
SNP_113885_A_457	NW_004519589.1	scaffold5553	457	GG	TT	TT	INTERGENIC			
SNP_113886_A_467	NW_004519589.1	scaffold5553	467	GG	AA	AA	INTERGENIC			
SNP_113887_A_521	NW_004519589.1	scaffold5553	521	TT	CC	CC	INTERGENIC			
SNP_113888_A_571	NW_004519589.1	scaffold5553	571	TT	GG	GG	INTERGENIC			
SNP_113889_A_582	NW_004519589.1	scaffold5553	582	AA	TT	TT	INTERGENIC			
SNP_113890_A_619	NW_004519589.1	scaffold5553	619	AA	TT	TT	INTERGENIC			
SNP_113891_A_630	NW_004519589.1	scaffold5553	630	CC	TT	TT	INTERGENIC			
SNP_113892_A_694	NW_004519589.1	scaffold5553	694	AA	GG	GG	INTERGENIC			
SNP_113893_A_709	NW_004519589.1	scaffold5553	709	TT	GG	GG	INTERGENIC			
SNP_113894_A_720	NW_004519589.1	scaffold5553	720	AA	TT	TT	INTERGENIC			
SNP_113895_A_1988	NW_004519589.1	scaffold5553	1988	AA	GG	GG	INTERGENIC			
SNP_113896_A_6838	NW_004519589.1	scaffold5553	6838	GG	TT	TT	INTERGENIC			
SNP_113897_A_10880	NW_004519589.1	scaffold5553	10880	AA	CC	CC	INTERGENIC			
SNP_113898_A_11711	NW_004519589.1	scaffold5553	11711	TT	AA	AA	INTERGENIC			
SNP_113899_A_11719	NW_004519589.1	scaffold5553	11719	CC	TT	TT	INTERGENIC			
SNP_113900_A_12385	NW_004519589.1	scaffold5553	12385	CC	TT	TT	INTERGENIC			
SNP_113901_A_439	NW_004519591.1	scaffold5556	439	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113902_A_482	NW_004519591.1	scaffold5556	482	AA	CC	CC	INTERGENIC			
SNP_113903_A_891	NW_004519599.1	scaffold5569	891	AA	CC	CC	INTERGENIC			
SNP_113904_A_471	NW_004519601.1	scaffold5574	471	GG	AA	AA	INTERGENIC			
SNP_113905_A_938	NW_004519605.1	scaffold5580	938	TT	GG	GG	INTERGENIC			
SNP_113906_A_1062	NW_004519605.1	scaffold5580	1062	AA	GG	GG	INTERGENIC			
SNP_113908_A_1403	NW_004519605.1	scaffold5580	1403	GG	AA	AA	INTERGENIC			
SNP_113909_A_330	NW_004519615.1	scaffold5593	330	AA	CC	CC	INTERGENIC			
SNP_113910_A_338	NW_004519615.1	scaffold5593	338	GG	CC	CC	INTERGENIC			
SNP_113911_A_340	NW_004519615.1	scaffold5593	340	TT	CC	CC	INTERGENIC			
SNP_113912_A_418	NW_004519615.1	scaffold5593	418	AA	GG	GG	INTERGENIC			
SNP_113913_A_477	NW_004519615.1	scaffold5593	477	TT	CC	CC	INTERGENIC			
SNP_113914_A_482	NW_004519615.1	scaffold5593	482	CC	TT	TT	INTERGENIC			
SNP_113915_A_513	NW_004519615.1	scaffold5593	513	GG	CC	CC	INTERGENIC			
SNP_113916_A_527	NW_004519615.1	scaffold5593	527	CC	TT	TT	INTERGENIC			
SNP_113917_A_529	NW_004519615.1	scaffold5593	529	GG	AA	AA	INTERGENIC			
SNP_113918_A_543	NW_004519615.1	scaffold5593	543	TT	CC	CC	INTERGENIC			
SNP_113919_A_706	NW_004519615.1	scaffold5593	706	CC	TT	TT	INTERGENIC			
SNP_113920_A_358	NW_004519617.1	scaffold5596	358	AA	GG	GG	INTERGENIC			
SNP_113921_A_3081	NW_004519618.1	scaffold5598	3081	TT	CC	CC	INTERGENIC			
SNP_113922_A_3147	NW_004519618.1	scaffold5598	3147	TT	GG	GG	INTERGENIC			
SNP_113923_A_3177	NW_004519618.1	scaffold5598	3177	AA	TT	TT	INTERGENIC			
SNP_113924_A_3254	NW_004519618.1	scaffold5598	3254	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113925_A_3276	NW_004519618.1	scaffold5598	3276	TT	GG	GG	INTERGENIC			
SNP_113926_A_3492	NW_004519618.1	scaffold5598	3492	TT	CC	CC	INTERGENIC			
SNP_113927_A_3773	NW_004519618.1	scaffold5598	3773	AA	CC	CC	INTERGENIC			
SNP_113928_A_4564	NW_004519618.1	scaffold5598	4564	AA	TT	TT	INTERGENIC			
SNP_113929_A_4582	NW_004519618.1	scaffold5598	4582	TT	CC	CC	INTERGENIC			
SNP_113930_A_4892	NW_004519618.1	scaffold5598	4892	CC	GG	GG	INTERGENIC			
SNP_113931_A_5005	NW_004519618.1	scaffold5598	5005	TT	CC	CC	INTERGENIC			
SNP_113932_A_5065	NW_004519618.1	scaffold5598	5065	GG	CC	CC	INTERGENIC			
SNP_113933_A_5097	NW_004519618.1	scaffold5598	5097	AA	GG	GG	INTERGENIC			
SNP_113934_A_5142	NW_004519618.1	scaffold5598	5142	CC	TT	TT	INTERGENIC			
SNP_113935_A_5189	NW_004519618.1	scaffold5598	5189	AA	CC	CC	INTERGENIC			
SNP_113936_A_5240	NW_004519618.1	scaffold5598	5240	GG	CC	CC	INTERGENIC			
SNP_113937_A_5305	NW_004519618.1	scaffold5598	5305	GG	AA	AA	INTERGENIC			
SNP_113938_A_5316	NW_004519618.1	scaffold5598	5316	CC	AA	AA	INTERGENIC			
SNP_113939_A_5411	NW_004519618.1	scaffold5598	5411	CC	AA	AA	INTERGENIC			
SNP_113940_A_5499	NW_004519618.1	scaffold5598	5499	CC	AA	AA	INTERGENIC			
SNP_113941_A_5920	NW_004519618.1	scaffold5598	5920	CC	TT	TT	INTERGENIC			
SNP_113942_A_6165	NW_004519618.1	scaffold5598	6165	CC	TT	TT	INTERGENIC			
SNP_113943_A_6433	NW_004519618.1	scaffold5598	6433	AA	CC	CC	INTERGENIC			
SNP_113944_A_6518	NW_004519618.1	scaffold5598	6518	CC	TT	TT	INTERGENIC			
SNP_113945_A_6645	NW_004519618.1	scaffold5598	6645	AA	GG	GG	INTERGENIC			
SNP_113946_A_6739	NW_004519618.1	scaffold5598	6739	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113947_A_7281	NW_004519618.1	scaffold5598	7281	GG	AA	AA	INTERGENIC			
SNP_113948_A_7383	NW_004519618.1	scaffold5598	7383	GG	AA	AA	INTERGENIC			
SNP_113949_A_7404	NW_004519618.1	scaffold5598	7404	AA	CC	CC	INTERGENIC			
SNP_113950_A_7421	NW_004519618.1	scaffold5598	7421	TT	AA	AA	INTERGENIC			
SNP_113951_A_7524	NW_004519618.1	scaffold5598	7524	GG	AA	AA	INTERGENIC			
SNP_113952_A_7530	NW_004519618.1	scaffold5598	7530	AA	CC	CC	INTERGENIC			
SNP_113953_A_7887	NW_004519618.1	scaffold5598	7887	GG	CC	CC	INTERGENIC			
SNP_113954_A_7987	NW_004519618.1	scaffold5598	7987	GG	CC	CC	INTERGENIC			
SNP_113955_A_8291	NW_004519618.1	scaffold5598	8291	GG	AA	AA	INTERGENIC			
SNP_113956_A_8809	NW_004519618.1	scaffold5598	8809	TT	AA	AA	INTERGENIC			
SNP_113957_A_8893	NW_004519618.1	scaffold5598	8893	CC	AA	AA	INTERGENIC			
SNP_113958_A_9450	NW_004519618.1	scaffold5598	9450	TT	AA	AA	INTERGENIC			
SNP_113960_A_11178	NW_004519618.1	scaffold5598	11178	AA	GG	GG	INTERGENIC			
SNP_113961_A_11909	NW_004519618.1	scaffold5598	11909	AA	GG	GG	INTERGENIC			
SNP_113962_A_13174	NW_004519618.1	scaffold5598	13174	AA	GG	GG	INTERGENIC			
SNP_113963_A_13189	NW_004519618.1	scaffold5598	13189	TT	AA	AA	INTERGENIC			
SNP_113964_A_13207	NW_004519618.1	scaffold5598	13207	TT	GG	GG	INTERGENIC			
SNP_113965_A_13222	NW_004519618.1	scaffold5598	13222	AA	GG	GG	INTERGENIC			
SNP_113966_A_13377	NW_004519618.1	scaffold5598	13377	CC	GG	GG	INTERGENIC			
SNP_113968_A_13730	NW_004519618.1	scaffold5598	13730	CC	TT	TT	INTERGENIC			
SNP_113969_A_13798	NW_004519618.1	scaffold5598	13798	GG	AA	AA	INTERGENIC			
SNP_113970_A_13814	NW_004519618.1	scaffold5598	13814	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_113972_A_5322	NW_004519619.1	scaffold5599	5322	GG	AA	AA	INTERGENIC		
SNP_113973_A_5497	NW_004519619.1	scaffold5599	5497	AA	TT	TT	INTERGENIC		
SNP_113974_A_5636	NW_004519619.1	scaffold5599	5636	CC	GG	GG	INTERGENIC		
SNP_113975_A_635	NW_004519620.1	scaffold5600	635	CC	TT	TT	DRR	101496319	Unknown function
SNP_113976_A_935	NW_004519620.1	scaffold5600	935	AA	TT	TT	SYNONYMOUS_CODING	101496319	Unknown function
SNP_113977_A_1029	NW_004519620.1	scaffold5600	1029	AA	CC	CC	URR	101496319	Unknown function
SNP_113978_A_1030	NW_004519620.1	scaffold5600	1030	TT	AA	AA	URR	101496319	Unknown function
SNP_113979_A_4140	NW_004519622.1	scaffold5602	4140	AA	GG	GG	NON_SYNONYMOUS_CODING	101496646	uncharacterized LOC101496646
SNP_113981_A_481	NW_004519625.1	scaffold5606	481	CC	TT	TT	INTERGENIC		
SNP_113982_A_321	NW_004519631.1	scaffold5614	321	AA	GG	GG	INTERGENIC		
SNP_113983_A_905	NW_004519631.1	scaffold5614	905	GG	CC	CC	INTERGENIC		
SNP_113984_A_1147	NW_004519631.1	scaffold5614	1147	TT	AA	AA	INTERGENIC		
SNP_113985_A_3432	NW_004519631.1	scaffold5614	3432	GG	AA	AA	INTERGENIC		
SNP_113986_A_3931	NW_004519631.1	scaffold5614	3931	AA	TT	TT	INTERGENIC		
SNP_113988_A_4164	NW_004519631.1	scaffold5614	4164	TT	AA	AA	INTERGENIC		
SNP_113989_A_4170	NW_004519631.1	scaffold5614	4170	AA	TT	TT	INTERGENIC		
SNP_113990_A_5150	NW_004519631.1	scaffold5614	5150	GG	AA	AA	INTERGENIC		
SNP_113991_A_5494	NW_004519631.1	scaffold5614	5494	TT	AA	AA	INTERGENIC		
SNP_113992_A_5626	NW_004519631.1	scaffold5614	5626	GG	CC	CC	INTERGENIC		
SNP_113993_A_989	NW_004519634.1	scaffold5617	989	TT	CC	CC	INTERGENIC		
SNP_113994_A_998	NW_004519634.1	scaffold5617	998	AA	GG	GG	INTERGENIC		
SNP_113995_A_1091	NW_004519634.1	scaffold5617	1091	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_113996_A_1344	NW_004519634.1	scaffold5617	1344	AA	CC	CC	INTERGENIC			
SNP_113997_A_1365	NW_004519634.1	scaffold5617	1365	TT	CC	CC	INTERGENIC			
SNP_113998_A_1398	NW_004519634.1	scaffold5617	1398	TT	CC	CC	INTERGENIC			
SNP_113999_A_1434	NW_004519634.1	scaffold5617	1434	AA	GG	GG	INTERGENIC			
SNP_114000_A_1456	NW_004519634.1	scaffold5617	1456	TT	GG	GG	INTERGENIC			
SNP_114001_A_1462	NW_004519634.1	scaffold5617	1462	TT	AA	AA	INTERGENIC			
SNP_114002_A_1467	NW_004519634.1	scaffold5617	1467	TT	AA	AA	INTERGENIC			
SNP_114003_A_1485	NW_004519634.1	scaffold5617	1485	TT	CC	CC	INTERGENIC			
SNP_114005_A_72	NW_004519635.1	scaffold5619	72	TT	CC	CC	INTERGENIC			
SNP_114006_A_463	NW_004519635.1	scaffold5619	463	TT	CC	CC	INTERGENIC			
SNP_114007_A_493	NW_004519635.1	scaffold5619	493	AA	CC	CC	INTERGENIC			
SNP_114008_A_555	NW_004519635.1	scaffold5619	555	GG	CC	CC	INTERGENIC			
SNP_114009_A_658	NW_004519635.1	scaffold5619	658	AA	CC	CC	INTERGENIC			
SNP_114010_A_1210	NW_004519635.1	scaffold5619	1210	TT	CC	CC	INTERGENIC			
SNP_114011_A_1359	NW_004519635.1	scaffold5619	1359	TT	AA	AA	INTERGENIC			
SNP_114012_A_69	NW_004519638.1	scaffold5627	69	TT	GG	GG	INTERGENIC			
SNP_114013_A_80	NW_004519638.1	scaffold5627	80	CC	GG	GG	INTERGENIC			
SNP_114014_A_113	NW_004519638.1	scaffold5627	113	TT	CC	CC	INTERGENIC			
SNP_114015_A_118	NW_004519638.1	scaffold5627	118	TT	CC	CC	INTERGENIC			
SNP_114016_A_164	NW_004519638.1	scaffold5627	164	AA	GG	GG	INTERGENIC			
SNP_114017_A_375	NW_004519638.1	scaffold5627	375	AA	GG	GG	INTERGENIC			
SNP_114018_A_4631	NW_004519638.1	scaffold5627	4631	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114019_A_4699	NW_004519638.1	scaffold5627	4699	CC	AA	AA	INTERGENIC			
SNP_114020_A_4705	NW_004519638.1	scaffold5627	4705	CC	TT	TT	INTERGENIC			
SNP_114021_A_10362	NW_004519638.1	scaffold5627	10362	GG	AA	AA	INTERGENIC			
SNP_114022_A_1201	NW_004519641.1	scaffold5634	1201	AA	TT	TT	INTERGENIC			
SNP_114023_A_869	NW_004519649.1	scaffold5647	869	TT	CC	CC	INTERGENIC			
SNP_114024_A_872	NW_004519649.1	scaffold5647	872	GG	TT	TT	INTERGENIC			
SNP_114025_A_2774	NW_004519652.1	scaffold5650	2774	CC	AA	AA	INTERGENIC			
SNP_114026_A_2913	NW_004519652.1	scaffold5650	2913	TT	GG	GG	INTERGENIC			
SNP_114027_A_1470	NW_004519654.1	scaffold5653	1470	CC	GG	GG	INTERGENIC			
SNP_114028_A_1528	NW_004519654.1	scaffold5653	1528	AA	TT	TT	INTERGENIC			
SNP_114029_A_1601	NW_004519654.1	scaffold5653	1601	AA	CC	CC	INTERGENIC			
SNP_114030_A_30027	NW_004519654.1	scaffold5653	30027	AA	GG	GG	INTERGENIC			
SNP_114031_A_30305	NW_004519654.1	scaffold5653	30305	TT	CC	CC	INTERGENIC			
SNP_114032_A_30307	NW_004519654.1	scaffold5653	30307	GG	AA	AA	INTERGENIC			
SNP_114033_A_30515	NW_004519654.1	scaffold5653	30515	CC	TT	TT	INTERGENIC			
SNP_114034_A_30546	NW_004519654.1	scaffold5653	30546	TT	GG	GG	INTERGENIC			
SNP_114035_A_30623	NW_004519654.1	scaffold5653	30623	TT	GG	GG	INTERGENIC			
SNP_114036_A_612	NW_004519657.1	scaffold5656	612	GG	AA	AA	INTERGENIC			
SNP_114037_A_807	NW_004519664.1	scaffold5666	807	AA	GG	GG	INTERGENIC			
SNP_114038_A_973	NW_004519664.1	scaffold5666	973	GG	AA	AA	INTERGENIC			
SNP_114039_A_998	NW_004519664.1	scaffold5666	998	TT	CC	CC	INTERGENIC			
SNP_114040_A_1089	NW_004519664.1	scaffold5666	1089	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114041_A_1110	NW_004519664.1	scaffold5666	1110	CC	TT	TT	INTERGENIC		
SNP_114042_A_1262	NW_004519664.1	scaffold5666	1262	CC	GG	GG	INTERGENIC		
SNP_114043_A_1305	NW_004519664.1	scaffold5666	1305	CC	AA	AA	INTERGENIC		
SNP_114044_A_2088	NW_004519667.1	scaffold5671	2088	AA	GG	GG	INTERGENIC		
SNP_114045_A_2296	NW_004519667.1	scaffold5671	2296	TT	CC	CC	INTERGENIC		
SNP_114046_A_2426	NW_004519667.1	scaffold5671	2426	CC	GG	GG	INTERGENIC		
SNP_114047_A_15745	NW_004519670.1	scaffold5674	15745	AA	CC	CC	INTRON	101497944	expansin-A15-like
SNP_114048_A_287	NW_004519673.1	scaffold5679	287	AA	GG	GG	INTERGENIC		
SNP_114049_A_350	NW_004519673.1	scaffold5679	350	AA	TT	TT	INTERGENIC		
SNP_114050_A_395	NW_004519673.1	scaffold5679	395	CC	TT	TT	INTERGENIC		
SNP_114051_A_424	NW_004519673.1	scaffold5679	424	GG	CC	CC	INTERGENIC		
SNP_114052_A_441	NW_004519673.1	scaffold5679	441	TT	GG	GG	INTERGENIC		
SNP_114053_A_456	NW_004519673.1	scaffold5679	456	CC	TT	TT	INTERGENIC		
SNP_114054_A_476	NW_004519673.1	scaffold5679	476	GG	AA	AA	INTERGENIC		
SNP_114055_A_525	NW_004519673.1	scaffold5679	525	GG	AA	AA	INTERGENIC		
SNP_114056_A_944	NW_004519678.1	scaffold5687	944	CC	GG	GG	INTERGENIC		
SNP_114057_A_1480	NW_004519682.1	scaffold5694	1480	TT	CC	CC	INTERGENIC		
SNP_114058_A_1774	NW_004519684.1	scaffold5698	1774	GG	AA	AA	INTERGENIC		
SNP_114059_A_3245	NW_004519684.1	scaffold5698	3245	GG	CC	CC	INTERGENIC		
SNP_114060_A_3904	NW_004519684.1	scaffold5698	3904	AA	CC	CC	INTERGENIC		
SNP_114061_A_4034	NW_004519684.1	scaffold5698	4034	CC	TT	TT	INTERGENIC		
SNP_114063_A_8079	NW_004519686.1	scaffold5700	8079	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114064_A_8197	NW_004519686.1	scaffold5700	8197	AA	CC	CC	INTERGENIC			
SNP_114065_A_8225	NW_004519686.1	scaffold5700	8225	TT	AA	AA	INTERGENIC			
SNP_114066_A_8236	NW_004519686.1	scaffold5700	8236	GG	TT	TT	INTERGENIC			
SNP_114067_A_103	NW_004519689.1	scaffold5703	103	CC	AA	AA	INTERGENIC			
SNP_114068_A_134	NW_004519689.1	scaffold5703	134	AA	GG	GG	INTERGENIC			
SNP_114069_A_155	NW_004519689.1	scaffold5703	155	TT	AA	AA	INTERGENIC			
SNP_114070_A_54058	NW_004519693.1	scaffold5714	54058	AA	TT	TT	INTERGENIC			
SNP_114071_A_4291	NW_004519694.1	scaffold5715	4291	CC	TT	TT	INTERGENIC			
SNP_114072_A_538	NW_004519695.1	scaffold5717	538	CC	AA	AA	INTERGENIC			
SNP_114073_A_240	NW_004519699.1	scaffold5721	240	GG	TT	TT	INTERGENIC			
SNP_114074_A_260	NW_004519699.1	scaffold5721	260	TT	AA	AA	INTERGENIC			
SNP_114075_A_382	NW_004519699.1	scaffold5721	382	GG	AA	AA	INTERGENIC			
SNP_114076_A_7914	NW_004519699.1	scaffold5721	7914	TT	CC	CC	INTERGENIC			
SNP_114077_A_192	NW_004519704.1	scaffold5730	192	AA	GG	GG	INTERGENIC			
SNP_114078_A_239	NW_004519704.1	scaffold5730	239	GG	AA	AA	INTERGENIC			
SNP_114079_A_240	NW_004519704.1	scaffold5730	240	CC	TT	TT	INTERGENIC			
SNP_114080_A_345	NW_004519704.1	scaffold5730	345	CC	TT	TT	INTERGENIC			
SNP_114081_A_421	NW_004519704.1	scaffold5730	421	GG	AA	AA	INTERGENIC			
SNP_114082_A_425	NW_004519704.1	scaffold5730	425	GG	TT	TT	INTERGENIC			
SNP_114083_A_459	NW_004519704.1	scaffold5730	459	AA	GG	GG	INTERGENIC			
SNP_114084_A_470	NW_004519704.1	scaffold5730	470	TT	AA	AA	INTERGENIC			
SNP_114086_A_711	NW_004519704.1	scaffold5730	711	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114087_A_722	NW_004519704.1	scaffold5730	722	TT	CC	CC	INTERGENIC			
SNP_114088_A_805	NW_004519704.1	scaffold5730	805	TT	AA	AA	INTERGENIC			
SNP_114089_A_808	NW_004519704.1	scaffold5730	808	CC	TT	TT	INTERGENIC			
SNP_114090_A_914	NW_004519704.1	scaffold5730	914	CC	TT	TT	INTERGENIC			
SNP_114091_A_892	NW_004519705.1	scaffold5734	892	CC	TT	TT	INTERGENIC			
SNP_114092_A_1329	NW_004519706.1	scaffold5735	1329	TT	CC	CC	INTERGENIC			
SNP_114093_A_1236	NW_004519707.1	scaffold5737	1236	TT	AA	AA	INTERGENIC			
SNP_114094_A_542	NW_004519709.1	scaffold5739	542	TT	CC	CC	INTERGENIC			
SNP_114095_A_720	NW_004519709.1	scaffold5739	720	TT	CC	CC	INTERGENIC			
SNP_114096_A_792	NW_004519709.1	scaffold5739	792	CC	TT	TT	INTERGENIC			
SNP_114097_A_866	NW_004519709.1	scaffold5739	866	CC	TT	TT	INTERGENIC			
SNP_114098_A_946	NW_004519709.1	scaffold5739	946	CC	AA	AA	INTERGENIC			
SNP_114099_A_947	NW_004519709.1	scaffold5739	947	TT	CC	CC	INTERGENIC			
SNP_114100_A_954	NW_004519709.1	scaffold5739	954	AA	GG	GG	INTERGENIC			
SNP_114101_A_958	NW_004519709.1	scaffold5739	958	CC	TT	TT	INTERGENIC			
SNP_114102_A_1021	NW_004519709.1	scaffold5739	1021	TT	GG	GG	INTERGENIC			
SNP_114103_A_1075	NW_004519709.1	scaffold5739	1075	AA	GG	GG	INTERGENIC			
SNP_114104_A_1091	NW_004519709.1	scaffold5739	1091	AA	CC	CC	INTERGENIC			
SNP_114105_A_1122	NW_004519709.1	scaffold5739	1122	TT	GG	GG	INTERGENIC			
SNP_114106_A_1124	NW_004519709.1	scaffold5739	1124	CC	TT	TT	INTERGENIC			
SNP_114107_A_1172	NW_004519709.1	scaffold5739	1172	CC	TT	TT	INTERGENIC			
SNP_114108_A_1198	NW_004519709.1	scaffold5739	1198	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114109_A_1219	NW_004519709.1	scaffold5739	1219	CC	TT	TT	INTERGENIC			
SNP_114110_A_1878	NW_004519713.1	scaffold5744	1878	AA	GG	GG	INTERGENIC			
SNP_114111_A_3297	NW_004519713.1	scaffold5744	3297	CC	GG	GG	INTERGENIC			
SNP_114112_A_3326	NW_004519713.1	scaffold5744	3326	AA	TT	TT	INTERGENIC			
SNP_114113_A_15423	NW_004519713.1	scaffold5744	15423	AA	GG	GG	INTERGENIC			
SNP_114114_A_15698	NW_004519713.1	scaffold5744	15698	TT	AA	AA	INTERGENIC			
SNP_114115_A_17047	NW_004519713.1	scaffold5744	17047	TT	CC	CC	INTERGENIC			
SNP_114116_A_17527	NW_004519713.1	scaffold5744	17527	TT	CC	CC	INTERGENIC			
SNP_114117_A_17696	NW_004519713.1	scaffold5744	17696	TT	AA	AA	INTERGENIC			
SNP_114118_A_17774	NW_004519713.1	scaffold5744	17774	GG	CC	CC	INTERGENIC			
SNP_114119_A_17793	NW_004519713.1	scaffold5744	17793	CC	TT	TT	INTERGENIC			
SNP_114120_A_17808	NW_004519713.1	scaffold5744	17808	GG	CC	CC	INTERGENIC			
SNP_114121_A_17838	NW_004519713.1	scaffold5744	17838	TT	CC	CC	INTERGENIC			
SNP_114122_A_17853	NW_004519713.1	scaffold5744	17853	TT	CC	CC	INTERGENIC			
SNP_114123_A_17858	NW_004519713.1	scaffold5744	17858	TT	CC	CC	INTERGENIC			
SNP_114124_A_18088	NW_004519713.1	scaffold5744	18088	GG	TT	TT	INTERGENIC			
SNP_114125_A_18174	NW_004519713.1	scaffold5744	18174	GG	TT	TT	INTERGENIC			
SNP_114126_A_18227	NW_004519713.1	scaffold5744	18227	TT	CC	CC	INTERGENIC			
SNP_114127_A_320	NW_004519715.1	scaffold5746	320	AA	GG	GG	INTERGENIC			
SNP_114128_A_388	NW_004519715.1	scaffold5746	388	TT	CC	CC	INTERGENIC			
SNP_114129_A_450	NW_004519715.1	scaffold5746	450	GG	CC	CC	INTERGENIC			
SNP_114130_A_656	NW_004519715.1	scaffold5746	656	CC	TT	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114131_A_1304	NW_004519715.1	scaffold5746	1304	TT	GG	GG	INTERGENIC			
SNP_114132_A_1400	NW_004519715.1	scaffold5746	1400	CC	TT	TT	INTERGENIC			
SNP_114133_A_1470	NW_004519715.1	scaffold5746	1470	AA	CC	CC	INTERGENIC			
SNP_114134_A_1712	NW_004519715.1	scaffold5746	1712	GG	AA	AA	INTERGENIC			
SNP_114135_A_1724	NW_004519715.1	scaffold5746	1724	AA	TT	TT	INTERGENIC			
SNP_114136_A_1877	NW_004519715.1	scaffold5746	1877	GG	AA	AA	INTERGENIC			
SNP_114137_A_1194	NW_004519718.1	scaffold5750	1194	TT	AA	AA	INTERGENIC			
SNP_114138_A_203	NW_004519719.1	scaffold5753	203	AA	CC	CC	INTERGENIC			
SNP_114139_A_130	NW_004519722.1	scaffold5758	130	GG	TT	TT	INTERGENIC			
SNP_114140_A_671	NW_004519723.1	scaffold5759	671	AA	CC	CC	INTERGENIC			
SNP_114141_A_780	NW_004519724.1	scaffold5761	780	CC	AA	AA	INTERGENIC			
SNP_114142_A_790	NW_004519724.1	scaffold5761	790	AA	GG	GG	INTERGENIC			
SNP_114144_A_857	NW_004519724.1	scaffold5761	857	CC	AA	AA	INTERGENIC			
SNP_114145_A_984	NW_004519724.1	scaffold5761	984	GG	AA	AA	INTERGENIC			
SNP_114146_A_1005	NW_004519724.1	scaffold5761	1005	TT	AA	AA	INTERGENIC			
SNP_114148_A_1224	NW_004519724.1	scaffold5761	1224	AA	CC	CC	INTERGENIC			
SNP_114149_A_1486	NW_004519724.1	scaffold5761	1486	CC	AA	AA	INTERGENIC			
SNP_114150_A_1530	NW_004519724.1	scaffold5761	1530	CC	TT	TT	INTERGENIC			
SNP_114151_A_1677	NW_004519724.1	scaffold5761	1677	AA	CC	CC	INTERGENIC			
SNP_114152_A_1798	NW_004519724.1	scaffold5761	1798	GG	AA	AA	INTERGENIC			
SNP_114153_A_6671	NW_004519724.1	scaffold5761	6671	TT	AA	AA	INTERGENIC			
SNP_114154_A_6875	NW_004519724.1	scaffold5761	6875	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114155_A_6985	NW_004519724.1	scaffold5761	6985	TT	GG	GG	INTERGENIC			
SNP_114156_A_322	NW_004519727.1	scaffold5765	322	GG	AA	AA	INTERGENIC			
SNP_114157_A_381	NW_004519727.1	scaffold5765	381	CC	AA	AA	INTERGENIC			
SNP_114158_A_382	NW_004519727.1	scaffold5765	382	CC	TT	TT	INTERGENIC			
SNP_114159_A_458	NW_004519727.1	scaffold5765	458	TT	AA	AA	INTERGENIC			
SNP_114161_A_632	NW_004519727.1	scaffold5765	632	GG	AA	AA	INTERGENIC			
SNP_114162_A_2177	NW_004519728.1	scaffold5766	2177	TT	GG	GG	INTERGENIC			
SNP_114163_A_2178	NW_004519728.1	scaffold5766	2178	GG	TT	TT	INTERGENIC			
SNP_114164_A_2235	NW_004519728.1	scaffold5766	2235	AA	TT	TT	INTERGENIC			
SNP_114165_A_2257	NW_004519728.1	scaffold5766	2257	CC	GG	GG	INTERGENIC			
SNP_114166_A_970	NW_004519731.1	scaffold5775	970	GG	AA	AA	INTERGENIC			
SNP_114167_A_1022	NW_004519731.1	scaffold5775	1022	TT	AA	AA	INTERGENIC			
SNP_114168_A_1122	NW_004519731.1	scaffold5775	1122	CC	TT	TT	INTERGENIC			
SNP_114169_A_1132	NW_004519731.1	scaffold5775	1132	TT	CC	CC	INTERGENIC			
SNP_114170_A_2653	NW_004519733.1	scaffold5777	2653	AA	CC	CC	INTERGENIC			
SNP_114171_A_2974	NW_004519733.1	scaffold5777	2974	TT	CC	CC	INTERGENIC			
SNP_114172_A_3289	NW_004519733.1	scaffold5777	3289	GG	TT	TT	INTERGENIC			
SNP_114173_A_3359	NW_004519733.1	scaffold5777	3359	TT	GG	GG	INTERGENIC			
SNP_114174_A_3421	NW_004519733.1	scaffold5777	3421	AA	TT	TT	INTERGENIC			
SNP_114175_A_3439	NW_004519733.1	scaffold5777	3439	GG	AA	AA	INTERGENIC			
SNP_114176_A_3660	NW_004519733.1	scaffold5777	3660	GG	AA	AA	INTERGENIC			
SNP_114177_A_7372	NW_004519733.1	scaffold5777	7372	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114178_A_7598	NW_004519733.1	scaffold5777	7598	CC	TT	TT	INTERGENIC		
SNP_114179_A_7831	NW_004519733.1	scaffold5777	7831	CC	TT	TT	INTERGENIC		
SNP_114180_A_7891	NW_004519733.1	scaffold5777	7891	AA	GG	GG	INTERGENIC		
SNP_114181_A_7908	NW_004519733.1	scaffold5777	7908	CC	TT	TT	INTERGENIC		
SNP_114182_A_8355	NW_004519733.1	scaffold5777	8355	TT	CC	CC	INTERGENIC		
SNP_114183_A_8504	NW_004519733.1	scaffold5777	8504	TT	GG	GG	INTERGENIC		
SNP_114184_A_8911	NW_004519733.1	scaffold5777	8911	CC	TT	TT	INTERGENIC		
SNP_114185_A_8934	NW_004519733.1	scaffold5777	8934	TT	CC	CC	INTERGENIC		
SNP_114186_A_9122	NW_004519733.1	scaffold5777	9122	CC	TT	TT	INTERGENIC		
SNP_114187_A_9240	NW_004519733.1	scaffold5777	9240	AA	GG	GG	INTERGENIC		
SNP_114188_A_9258	NW_004519733.1	scaffold5777	9258	CC	TT	TT	INTERGENIC		
SNP_114189_A_10039	NW_004519733.1	scaffold5777	10039	TT	CC	CC	INTERGENIC		
SNP_114190_A_10070	NW_004519733.1	scaffold5777	10070	TT	GG	GG	INTERGENIC		
SNP_114191_A_10130	NW_004519733.1	scaffold5777	10130	TT	AA	AA	INTERGENIC		
SNP_114192_A_10337	NW_004519733.1	scaffold5777	10337	AA	GG	GG	INTERGENIC		
SNP_114193_A_10345	NW_004519733.1	scaffold5777	10345	AA	GG	GG	INTERGENIC		
SNP_114194_A_10348	NW_004519733.1	scaffold5777	10348	AA	GG	GG	INTERGENIC		
SNP_114195_A_10453	NW_004519733.1	scaffold5777	10453	CC	TT	TT	INTERGENIC		
SNP_114196_A_10572	NW_004519733.1	scaffold5777	10572	AA	CC	CC	INTERGENIC		
SNP_114197_A_16313	NW_004519733.1	scaffold5777	16313	GG	CC	CC	URR	101501177	uncharacterized LOC101501177
SNP_114199_A_16532	NW_004519733.1	scaffold5777	16532	GG	CC	CC	URR	101501177	uncharacterized LOC101501177
SNP_114201_A_16798	NW_004519733.1	scaffold5777	16798	TT	AA	AA	URR	101501177	uncharacterized LOC101501177

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114202_A_17078	NW_004519733.1	scaffold5777	17078	CC	TT	TT	URR	101501177	uncharacterized LOC101501177
SNP_114203_A_17165	NW_004519733.1	scaffold5777	17165	TT	CC	CC	URR	101501177	uncharacterized LOC101501177
SNP_114204_A_17207	NW_004519733.1	scaffold5777	17207	CC	GG	GG	URR	101501177	uncharacterized LOC101501177
SNP_114205_A_2849	NW_004519735.1	scaffold5780	2849	CC	AA	AA	INTERGENIC		
SNP_114207_A_2923	NW_004519735.1	scaffold5780	2923	GG	AA	AA	INTERGENIC		
SNP_114208_A_3039	NW_004519735.1	scaffold5780	3039	TT	CC	CC	INTERGENIC		
SNP_114209_A_3234	NW_004519735.1	scaffold5780	3234	GG	TT	TT	INTERGENIC		
SNP_114210_A_3286	NW_004519735.1	scaffold5780	3286	TT	GG	GG	INTERGENIC		
SNP_114211_A_3357	NW_004519735.1	scaffold5780	3357	TT	CC	CC	INTERGENIC		
SNP_114212_A_4549	NW_004519735.1	scaffold5780	4549	GG	AA	AA	INTERGENIC		
SNP_114213_A_4628	NW_004519735.1	scaffold5780	4628	GG	AA	AA	INTERGENIC		
SNP_114214_A_4792	NW_004519735.1	scaffold5780	4792	AA	GG	GG	INTERGENIC		
SNP_114215_A_4990	NW_004519735.1	scaffold5780	4990	AA	GG	GG	INTERGENIC		
SNP_114216_A_5013	NW_004519735.1	scaffold5780	5013	GG	AA	AA	INTERGENIC		
SNP_114217_A_5022	NW_004519735.1	scaffold5780	5022	CC	TT	TT	INTERGENIC		
SNP_114218_A_5223	NW_004519735.1	scaffold5780	5223	TT	CC	CC	INTERGENIC		
SNP_114219_A_5230	NW_004519735.1	scaffold5780	5230	AA	GG	GG	INTERGENIC		
SNP_114220_A_5242	NW_004519735.1	scaffold5780	5242	GG	AA	AA	INTERGENIC		
SNP_114221_A_5344	NW_004519735.1	scaffold5780	5344	AA	GG	GG	INTERGENIC		
SNP_114224_A_5505	NW_004519735.1	scaffold5780	5505	AA	TT	TT	INTERGENIC		
SNP_114225_A_5506	NW_004519735.1	scaffold5780	5506	AA	CC	CC	INTERGENIC		
SNP_114226_A_5564	NW_004519735.1	scaffold5780	5564	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114227_A_5649	NW_004519735.1	scaffold5780	5649	TT	CC	CC	INTERGENIC			
SNP_114228_A_5663	NW_004519735.1	scaffold5780	5663	GG	AA	AA	INTERGENIC			
SNP_114229_A_5673	NW_004519735.1	scaffold5780	5673	AA	GG	GG	INTERGENIC			
SNP_114230_A_5680	NW_004519735.1	scaffold5780	5680	TT	CC	CC	INTERGENIC			
SNP_114231_A_5689	NW_004519735.1	scaffold5780	5689	TT	CC	CC	INTERGENIC			
SNP_114232_A_5690	NW_004519735.1	scaffold5780	5690	GG	AA	AA	INTERGENIC			
SNP_114233_A_5726	NW_004519735.1	scaffold5780	5726	CC	AA	AA	INTERGENIC			
SNP_114234_A_5731	NW_004519735.1	scaffold5780	5731	AA	GG	GG	INTERGENIC			
SNP_114235_A_5733	NW_004519735.1	scaffold5780	5733	AA	TT	TT	INTERGENIC			
SNP_114236_A_5746	NW_004519735.1	scaffold5780	5746	TT	GG	GG	INTERGENIC			
SNP_114237_A_5852	NW_004519735.1	scaffold5780	5852	AA	GG	GG	INTERGENIC			
SNP_114239_A_6033	NW_004519735.1	scaffold5780	6033	TT	CC	CC	INTERGENIC			
SNP_114240_A_6098	NW_004519735.1	scaffold5780	6098	GG	AA	AA	INTERGENIC			
SNP_114241_A_6100	NW_004519735.1	scaffold5780	6100	GG	TT	TT	INTERGENIC			
SNP_114242_A_6142	NW_004519735.1	scaffold5780	6142	GG	AA	AA	INTERGENIC			
SNP_114243_A_6195	NW_004519735.1	scaffold5780	6195	AA	GG	GG	INTERGENIC			
SNP_114244_A_6288	NW_004519735.1	scaffold5780	6288	AA	GG	GG	INTERGENIC			
SNP_114245_A_6292	NW_004519735.1	scaffold5780	6292	TT	CC	CC	INTERGENIC			
SNP_114246_A_6308	NW_004519735.1	scaffold5780	6308	TT	CC	CC	INTERGENIC			
SNP_114247_A_6315	NW_004519735.1	scaffold5780	6315	AA	GG	GG	INTERGENIC			
SNP_114248_A_6515	NW_004519735.1	scaffold5780	6515	AA	TT	TT	INTERGENIC			
SNP_114249_A_6516	NW_004519735.1	scaffold5780	6516	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114250_A_6662	NW_004519735.1	scaffold5780	6662	TT	GG	GG	INTERGENIC			
SNP_114251_A_6692	NW_004519735.1	scaffold5780	6692	CC	TT	TT	INTERGENIC			
SNP_114252_A_6694	NW_004519735.1	scaffold5780	6694	TT	CC	CC	INTERGENIC			
SNP_114253_A_6736	NW_004519735.1	scaffold5780	6736	GG	AA	AA	INTERGENIC			
SNP_114254_A_6790	NW_004519735.1	scaffold5780	6790	CC	TT	TT	INTERGENIC			
SNP_114255_A_8654	NW_004519735.1	scaffold5780	8654	AA	GG	GG	INTERGENIC			
SNP_114256_A_8727	NW_004519735.1	scaffold5780	8727	CC	AA	AA	INTERGENIC			
SNP_114258_A_8753	NW_004519735.1	scaffold5780	8753	GG	AA	AA	INTERGENIC			
SNP_114259_A_8984	NW_004519735.1	scaffold5780	8984	GG	AA	AA	INTERGENIC			
SNP_114261_A_9464	NW_004519735.1	scaffold5780	9464	TT	AA	AA	INTERGENIC			
SNP_114262_A_9651	NW_004519735.1	scaffold5780	9651	CC	GG	GG	INTERGENIC			
SNP_114263_A_9668	NW_004519735.1	scaffold5780	9668	TT	CC	CC	INTERGENIC			
SNP_114264_A_9834	NW_004519735.1	scaffold5780	9834	TT	CC	CC	INTERGENIC			
SNP_114265_A_9976	NW_004519735.1	scaffold5780	9976	GG	TT	TT	INTERGENIC			
SNP_114266_A_9990	NW_004519735.1	scaffold5780	9990	AA	CC	CC	INTERGENIC			
SNP_114267_A_10024	NW_004519735.1	scaffold5780	10024	TT	CC	CC	INTERGENIC			
SNP_114268_A_10128	NW_004519735.1	scaffold5780	10128	CC	TT	TT	INTERGENIC			
SNP_114269_A_10130	NW_004519735.1	scaffold5780	10130	GG	AA	AA	INTERGENIC			
SNP_114270_A_10333	NW_004519735.1	scaffold5780	10333	AA	CC	CC	INTERGENIC			
SNP_114271_A_10359	NW_004519735.1	scaffold5780	10359	CC	TT	TT	INTERGENIC			
SNP_114272_A_10585	NW_004519735.1	scaffold5780	10585	GG	CC	CC	INTERGENIC			
SNP_114273_A_10600	NW_004519735.1	scaffold5780	10600	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114274_A_10773	NW_004519735.1	scaffold5780	10773	GG	AA	AA	INTERGENIC			
SNP_114275_A_10910	NW_004519735.1	scaffold5780	10910	CC	TT	TT	INTERGENIC			
SNP_114276_A_11020	NW_004519735.1	scaffold5780	11020	AA	GG	GG	INTERGENIC			
SNP_114277_A_17043	NW_004519735.1	scaffold5780	17043	CC	TT	TT	INTERGENIC			
SNP_114278_A_17050	NW_004519735.1	scaffold5780	17050	CC	TT	TT	INTERGENIC			
SNP_114279_A_17146	NW_004519735.1	scaffold5780	17146	CC	TT	TT	INTERGENIC			
SNP_114280_A_17408	NW_004519735.1	scaffold5780	17408	GG	AA	AA	INTERGENIC			
SNP_114281_A_17428	NW_004519735.1	scaffold5780	17428	AA	TT	TT	INTERGENIC			
SNP_114282_A_2167	NW_004519736.1	scaffold5781	2167	AA	TT	TT	INTERGENIC			
SNP_114283_A_2968	NW_004519736.1	scaffold5781	2968	AA	GG	GG	INTERGENIC			
SNP_114284_A_3043	NW_004519736.1	scaffold5781	3043	TT	AA	AA	INTERGENIC			
SNP_114285_A_3050	NW_004519736.1	scaffold5781	3050	AA	GG	GG	INTERGENIC			
SNP_114286_A_3113	NW_004519736.1	scaffold5781	3113	CC	GG	GG	INTERGENIC			
SNP_114287_A_3171	NW_004519736.1	scaffold5781	3171	AA	CC	CC	INTERGENIC			
SNP_114288_A_3189	NW_004519736.1	scaffold5781	3189	CC	TT	TT	INTERGENIC			
SNP_114289_A_3354	NW_004519736.1	scaffold5781	3354	AA	GG	GG	INTERGENIC			
SNP_114290_A_3430	NW_004519736.1	scaffold5781	3430	AA	GG	GG	INTERGENIC			
SNP_114291_A_3522	NW_004519736.1	scaffold5781	3522	GG	AA	AA	INTERGENIC			
SNP_114292_A_3544	NW_004519736.1	scaffold5781	3544	AA	TT	TT	INTERGENIC			
SNP_114293_A_3631	NW_004519736.1	scaffold5781	3631	GG	TT	TT	INTERGENIC			
SNP_114294_A_3911	NW_004519736.1	scaffold5781	3911	TT	CC	CC	INTERGENIC			
SNP_114295_A_4015	NW_004519736.1	scaffold5781	4015	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114296_A_12151	NW_004519736.1	scaffold5781	12151	CC	TT	TT	INTERGENIC			
SNP_114298_A_12552	NW_004519736.1	scaffold5781	12552	TT	CC	CC	INTERGENIC			
SNP_114299_A_12587	NW_004519736.1	scaffold5781	12587	CC	TT	TT	INTERGENIC			
SNP_114300_A_12596	NW_004519736.1	scaffold5781	12596	AA	GG	GG	INTERGENIC			
SNP_114301_A_12603	NW_004519736.1	scaffold5781	12603	GG	AA	AA	INTERGENIC			
SNP_114302_A_12653	NW_004519736.1	scaffold5781	12653	GG	AA	AA	INTERGENIC			
SNP_114303_A_12828	NW_004519736.1	scaffold5781	12828	TT	CC	CC	INTERGENIC			
SNP_114304_A_324	NW_004519737.1	scaffold5782	324	AA	GG	GG	INTERGENIC			
SNP_114305_A_329	NW_004519737.1	scaffold5782	329	GG	CC	CC	INTERGENIC			
SNP_114306_A_1046	NW_004519737.1	scaffold5782	1046	AA	GG	GG	INTERGENIC			
SNP_114307_A_1104	NW_004519737.1	scaffold5782	1104	TT	CC	CC	INTERGENIC			
SNP_114308_A_681	NW_004519738.1	scaffold5783	681	GG	AA	AA	INTERGENIC			
SNP_114309_A_713	NW_004519738.1	scaffold5783	713	CC	TT	TT	INTERGENIC			
SNP_114310_A_723	NW_004519738.1	scaffold5783	723	TT	CC	CC	INTERGENIC			
SNP_114311_A_1271	NW_004519738.1	scaffold5783	1271	CC	TT	TT	INTERGENIC			
SNP_114312_A_1597	NW_004519738.1	scaffold5783	1597	TT	CC	CC	INTERGENIC			
SNP_114313_A_365	NW_004519742.1	scaffold5790	365	TT	CC	CC	INTERGENIC			
SNP_114314_A_16845	NW_004519744.1	scaffold5792	16845	TT	CC	CC	INTERGENIC			
SNP_114316_A_77558	NW_004519744.1	scaffold5792	77558	TT	CC	CC	INTERGENIC			
SNP_114317_A_92343	NW_004519744.1	scaffold5792	92343	GG	AA	AA	INTERGENIC			
SNP_114318_A_5880	NW_004519746.1	scaffold5794	5880	AA	GG	GG	INTERGENIC			
SNP_114319_A_5888	NW_004519746.1	scaffold5794	5888	AA	TT	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114320_A_8247	NW_004519746.1	scaffold5794	8247	AA	TT	TT	INTERGENIC			
SNP_114321_A_8638	NW_004519746.1	scaffold5794	8638	CC	GG	GG	INTERGENIC			
SNP_114322_A_8707	NW_004519746.1	scaffold5794	8707	CC	GG	GG	INTERGENIC			
SNP_114323_A_1440	NW_004519747.1	scaffold5795	1440	CC	AA	AA	INTERGENIC			
SNP_114324_A_1446	NW_004519747.1	scaffold5795	1446	CC	TT	TT	INTERGENIC			
SNP_114325_A_1519	NW_004519747.1	scaffold5795	1519	GG	AA	AA	INTERGENIC			
SNP_114326_A_1520	NW_004519747.1	scaffold5795	1520	CC	TT	TT	INTERGENIC			
SNP_114327_A_5391	NW_004519749.1	scaffold5797	5391	CC	GG	GG	INTERGENIC			
SNP_114328_A_5392	NW_004519749.1	scaffold5797	5392	AA	GG	GG	INTERGENIC			
SNP_114329_A_5408	NW_004519749.1	scaffold5797	5408	GG	AA	AA	INTERGENIC			
SNP_114330_A_5438	NW_004519749.1	scaffold5797	5438	AA	GG	GG	INTERGENIC			
SNP_114331_A_5474	NW_004519749.1	scaffold5797	5474	CC	TT	TT	INTERGENIC			
SNP_114332_A_5480	NW_004519749.1	scaffold5797	5480	TT	GG	GG	INTERGENIC			
SNP_114333_A_5488	NW_004519749.1	scaffold5797	5488	AA	GG	GG	INTERGENIC			
SNP_114334_A_5514	NW_004519749.1	scaffold5797	5514	CC	TT	TT	INTERGENIC			
SNP_114335_A_5631	NW_004519749.1	scaffold5797	5631	AA	TT	TT	INTERGENIC			
SNP_114336_A_5709	NW_004519749.1	scaffold5797	5709	CC	AA	AA	INTERGENIC			
SNP_114337_A_5778	NW_004519749.1	scaffold5797	5778	AA	CC	CC	INTERGENIC			
SNP_114338_A_6000	NW_004519749.1	scaffold5797	6000	AA	GG	GG	INTERGENIC			
SNP_114339_A_6394	NW_004519749.1	scaffold5797	6394	AA	TT	TT	INTERGENIC			
SNP_114340_A_8658	NW_004519749.1	scaffold5797	8658	CC	AA	AA	INTERGENIC			
SNP_114341_A_8678	NW_004519749.1	scaffold5797	8678	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114342_A_8922	NW_004519749.1	scaffold5797	8922	CC	AA	AA	INTERGENIC		
SNP_114343_A_9015	NW_004519749.1	scaffold5797	9015	CC	TT	TT	INTERGENIC		
SNP_114344_A_9017	NW_004519749.1	scaffold5797	9017	GG	TT	TT	INTERGENIC		
SNP_114345_A_9029	NW_004519749.1	scaffold5797	9029	AA	GG	GG	INTERGENIC		
SNP_114346_A_9069	NW_004519749.1	scaffold5797	9069	AA	GG	GG	INTERGENIC		
SNP_114347_A_9180	NW_004519749.1	scaffold5797	9180	GG	CC	CC	INTERGENIC		
SNP_114348_A_9532	NW_004519749.1	scaffold5797	9532	CC	TT	TT	INTERGENIC		
SNP_114349_A_9792	NW_004519749.1	scaffold5797	9792	TT	CC	CC	INTERGENIC		
SNP_114350_A_9819	NW_004519749.1	scaffold5797	9819	TT	CC	CC	INTERGENIC		
SNP_114351_A_9820	NW_004519749.1	scaffold5797	9820	TT	CC	CC	INTERGENIC		
SNP_114352_A_492	NW_004519750.1	scaffold5801	492	TT	CC	CC	INTERGENIC		
SNP_114353_A_812	NW_004519750.1	scaffold5801	812	GG	AA	AA	INTERGENIC		
SNP_114354_A_1043	NW_004519750.1	scaffold5801	1043	AA	CC	CC	INTERGENIC		
SNP_114355_A_2332	NW_004519750.1	scaffold5801	2332	GG	AA	AA	INTERGENIC		
SNP_114356_A_2387	NW_004519750.1	scaffold5801	2387	TT	GG	GG	INTERGENIC		
SNP_114357_A_2504	NW_004519750.1	scaffold5801	2504	CC	TT	TT	INTERGENIC		
SNP_114358_A_307	NW_004519755.1	scaffold5812	307	AA	GG	GG	INTERGENIC		
SNP_114359_A_6570	NW_004519755.1	scaffold5812	6570	GG	AA	AA	INTRON	101504055	probable polygalacturonase At3g15720
SNP_114360_A_16675	NW_004519755.1	scaffold5812	16675	GG	AA	AA	INTERGENIC		
SNP_114361_A_18430	NW_004519755.1	scaffold5812	18430	TT	CC	CC	INTERGENIC		
SNP_114362_A_30214	NW_004519755.1	scaffold5812	30214	TT	AA	AA	INTRON	101503726	uncharacterized LOC101503726
SNP_114363_A_30292	NW_004519755.1	scaffold5812	30292	CC	TT	TT	INTRON	101503726	uncharacterized LOC101503726

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114364_A_30299	NW_004519755.1	scaffold5812	30299	TT	AA	AA	INTRON	101503726	uncharacterized LOC101503726
SNP_114366_A_45382	NW_004519755.1	scaffold5812	45382	AA	GG	GG	INTERGENIC		
SNP_114367_A_45404	NW_004519755.1	scaffold5812	45404	TT	CC	CC	INTERGENIC		
SNP_114368_A_45748	NW_004519755.1	scaffold5812	45748	TT	CC	CC	INTERGENIC		
SNP_114369_A_47443	NW_004519755.1	scaffold5812	47443	CC	TT	TT	INTERGENIC		
SNP_114370_A_47464	NW_004519755.1	scaffold5812	47464	AA	TT	TT	INTERGENIC		
SNP_114371_A_47512	NW_004519755.1	scaffold5812	47512	AA	GG	GG	INTERGENIC		
SNP_114372_A_47758	NW_004519755.1	scaffold5812	47758	GG	AA	AA	INTERGENIC		
SNP_114373_A_73	NW_004519756.1	scaffold5813	73	TT	AA	AA	DRR	101504368	Unknown function
SNP_114374_A_2756	NW_004519756.1	scaffold5813	2756	GG	TT	TT	URR	101504368	Unknown function
SNP_114375_A_2776	NW_004519756.1	scaffold5813	2776	CC	AA	AA	URR	101504368	Unknown function
SNP_114376_A_4509	NW_004519756.1	scaffold5813	4509	AA	CC	CC	INTERGENIC		
SNP_114377_A_1220	NW_004519758.1	scaffold5815	1220	AA	GG	GG	INTERGENIC		
SNP_114378_A_1466	NW_004519758.1	scaffold5815	1466	AA	CC	CC	INTERGENIC		
SNP_114379_A_1550	NW_004519758.1	scaffold5815	1550	CC	GG	GG	INTERGENIC		
SNP_114380_A_1798	NW_004519758.1	scaffold5815	1798	AA	GG	GG	INTERGENIC		
SNP_114381_A_1816	NW_004519758.1	scaffold5815	1816	TT	CC	CC	INTERGENIC		
SNP_114382_A_1827	NW_004519758.1	scaffold5815	1827	CC	AA	AA	INTERGENIC		
SNP_114383_A_5548	NW_004519759.1	scaffold5816	5548	CC	TT	TT	INTERGENIC		
SNP_114384_A_498	NW_004519760.1	scaffold5817	498	AA	CC	CC	INTERGENIC		
SNP_114385_A_646	NW_004519760.1	scaffold5817	646	TT	GG	GG	INTERGENIC		
SNP_114386_A_793	NW_004519760.1	scaffold5817	793	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114387_A_841	NW_004519760.1	scaffold5817	841	TT	CC	CC	INTERGENIC			
SNP_114388_A_992	NW_004519760.1	scaffold5817	992	TT	AA	AA	INTERGENIC			
SNP_114389_A_113	NW_004519764.1	scaffold5823	113	CC	AA	AA	INTERGENIC			
SNP_114390_A_339	NW_004519764.1	scaffold5823	339	GG	TT	TT	INTERGENIC			
SNP_114391_A_624	NW_004519764.1	scaffold5823	624	CC	TT	TT	INTERGENIC			
SNP_114393_A_1529	NW_004519764.1	scaffold5823	1529	AA	GG	GG	INTERGENIC			
SNP_114394_A_1534	NW_004519764.1	scaffold5823	1534	AA	TT	TT	INTERGENIC			
SNP_114395_A_1542	NW_004519764.1	scaffold5823	1542	CC	GG	GG	INTERGENIC			
SNP_114396_A_1544	NW_004519764.1	scaffold5823	1544	AA	CC	CC	INTERGENIC			
SNP_114397_A_671	NW_004519772.1	scaffold5831	671	CC	AA	AA	INTERGENIC			
SNP_114399_A_729	NW_004519772.1	scaffold5831	729	TT	AA	AA	INTERGENIC			
SNP_114400_A_924	NW_004519776.1	scaffold5836	924	GG	AA	AA	INTERGENIC			
SNP_114401_A_5486	NW_004519778.1	scaffold5839	5486	GG	CC	CC	INTERGENIC			
SNP_114402_A_6976	NW_004519778.1	scaffold5839	6976	GG	TT	TT	INTERGENIC			
SNP_114403_A_6979	NW_004519778.1	scaffold5839	6979	TT	AA	AA	INTERGENIC			
SNP_114404_A_7229	NW_004519778.1	scaffold5839	7229	CC	GG	GG	INTERGENIC			
SNP_114405_A_7339	NW_004519778.1	scaffold5839	7339	AA	GG	GG	INTERGENIC			
SNP_114406_A_7403	NW_004519778.1	scaffold5839	7403	GG	TT	TT	INTERGENIC			
SNP_114407_A_7409	NW_004519778.1	scaffold5839	7409	GG	AA	AA	INTERGENIC			
SNP_114408_A_7743	NW_004519778.1	scaffold5839	7743	TT	CC	CC	INTERGENIC			
SNP_114409_A_7747	NW_004519778.1	scaffold5839	7747	AA	TT	TT	INTERGENIC			
SNP_114410_A_7791	NW_004519778.1	scaffold5839	7791	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114411_A_7823	NW_004519778.1	scaffold5839	7823	TT	AA	AA	INTERGENIC			
SNP_114412_A_7849	NW_004519778.1	scaffold5839	7849	CC	TT	TT	INTERGENIC			
SNP_114413_A_7859	NW_004519778.1	scaffold5839	7859	AA	GG	GG	INTERGENIC			
SNP_114414_A_7898	NW_004519778.1	scaffold5839	7898	AA	GG	GG	INTERGENIC			
SNP_114415_A_7925	NW_004519778.1	scaffold5839	7925	CC	GG	GG	INTERGENIC			
SNP_114416_A_7975	NW_004519778.1	scaffold5839	7975	TT	GG	GG	INTERGENIC			
SNP_114417_A_8009	NW_004519778.1	scaffold5839	8009	GG	AA	AA	INTERGENIC			
SNP_114418_A_8025	NW_004519778.1	scaffold5839	8025	GG	TT	TT	INTERGENIC			
SNP_114419_A_8145	NW_004519778.1	scaffold5839	8145	AA	GG	GG	INTERGENIC			
SNP_114420_A_8192	NW_004519778.1	scaffold5839	8192	GG	AA	AA	INTERGENIC			
SNP_114421_A_8284	NW_004519778.1	scaffold5839	8284	TT	CC	CC	INTERGENIC			
SNP_114422_A_8285	NW_004519778.1	scaffold5839	8285	TT	CC	CC	INTERGENIC			
SNP_114423_A_8321	NW_004519778.1	scaffold5839	8321	AA	CC	CC	INTERGENIC			
SNP_114424_A_8327	NW_004519778.1	scaffold5839	8327	AA	GG	GG	INTERGENIC			
SNP_114425_A_8333	NW_004519778.1	scaffold5839	8333	CC	TT	TT	INTERGENIC			
SNP_114426_A_8375	NW_004519778.1	scaffold5839	8375	CC	TT	TT	INTERGENIC			
SNP_114427_A_22714	NW_004519778.1	scaffold5839	22714	CC	GG	GG	INTERGENIC			
SNP_114428_A_418	NW_004519780.1	scaffold5841	418	CC	TT	TT	INTERGENIC			
SNP_114429_A_427	NW_004519780.1	scaffold5841	427	TT	GG	GG	INTERGENIC			
SNP_114430_A_948	NW_004519780.1	scaffold5841	948	CC	TT	TT	INTERGENIC			
SNP_114431_A_1052	NW_004519780.1	scaffold5841	1052	AA	GG	GG	INTERGENIC			
SNP_114432_A_205	NW_004519782.1	scaffold5843	205	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114433_A_223	NW_004519782.1	scaffold5843	223	GG	AA	AA	INTERGENIC			
SNP_114434_A_226	NW_004519782.1	scaffold5843	226	AA	GG	GG	INTERGENIC			
SNP_114435_A_251	NW_004519782.1	scaffold5843	251	AA	TT	TT	INTERGENIC			
SNP_114436_A_288	NW_004519782.1	scaffold5843	288	CC	TT	TT	INTERGENIC			
SNP_114438_A_364	NW_004519782.1	scaffold5843	364	GG	TT	TT	INTERGENIC			
SNP_114439_A_739	NW_004519782.1	scaffold5843	739	AA	GG	GG	INTERGENIC			
SNP_114440_A_762	NW_004519782.1	scaffold5843	762	AA	GG	GG	INTERGENIC			
SNP_114441_A_401	NW_004519795.1	scaffold5863	401	TT	GG	GG	INTERGENIC			
SNP_114442_A_1260	NW_004519796.1	scaffold5864	1260	TT	CC	CC	INTERGENIC			
SNP_114443_A_1433	NW_004519796.1	scaffold5864	1433	TT	CC	CC	INTERGENIC			
SNP_114444_A_1436	NW_004519796.1	scaffold5864	1436	CC	GG	GG	INTERGENIC			
SNP_114445_A_490	NW_004519797.1	scaffold5867	490	AA	GG	GG	INTERGENIC			
SNP_114446_A_660	NW_004519797.1	scaffold5867	660	CC	GG	GG	INTERGENIC			
SNP_114447_A_696	NW_004519797.1	scaffold5867	696	CC	AA	AA	INTERGENIC			
SNP_114448_A_769	NW_004519797.1	scaffold5867	769	AA	GG	GG	INTERGENIC			
SNP_114450_A_905	NW_004519797.1	scaffold5867	905	TT	GG	GG	INTERGENIC			
SNP_114451_A_948	NW_004519797.1	scaffold5867	948	GG	CC	CC	INTERGENIC			
SNP_114452_A_957	NW_004519797.1	scaffold5867	957	GG	CC	CC	INTERGENIC			
SNP_114453_A_961	NW_004519797.1	scaffold5867	961	TT	CC	CC	INTERGENIC			
SNP_114454_A_1008	NW_004519797.1	scaffold5867	1008	GG	AA	AA	INTERGENIC			
SNP_114455_A_371	NW_004519798.1	scaffold5869	371	TT	CC	CC	INTERGENIC			
SNP_114456_A_732	NW_004519798.1	scaffold5869	732	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114457_A_817	NW_004519798.1	scaffold5869	817	CC	AA	AA	INTERGENIC		
SNP_114458_A_4559	NW_004519798.1	scaffold5869	4559	CC	GG	GG	INTERGENIC		
SNP_114459_A_5277	NW_004519798.1	scaffold5869	5277	GG	AA	AA	INTERGENIC		
SNP_114460_A_5474	NW_004519798.1	scaffold5869	5474	GG	AA	AA	INTERGENIC		
SNP_114461_A_5496	NW_004519798.1	scaffold5869	5496	CC	TT	TT	INTERGENIC		
SNP_114462_A_7772	NW_004519798.1	scaffold5869	7772	AA	GG	GG	INTERGENIC		
SNP_114463_A_7811	NW_004519798.1	scaffold5869	7811	GG	AA	AA	INTERGENIC		
SNP_114464_A_7815	NW_004519798.1	scaffold5869	7815	AA	GG	GG	INTERGENIC		
SNP_114465_A_8044	NW_004519798.1	scaffold5869	8044	AA	GG	GG	INTERGENIC		
SNP_114466_A_8068	NW_004519798.1	scaffold5869	8068	TT	CC	CC	INTERGENIC		
SNP_114467_A_8085	NW_004519798.1	scaffold5869	8085	GG	AA	AA	INTERGENIC		
SNP_114468_A_8116	NW_004519798.1	scaffold5869	8116	CC	TT	TT	INTERGENIC		
SNP_114469_A_8143	NW_004519798.1	scaffold5869	8143	AA	GG	GG	INTERGENIC		
SNP_114470_A_8153	NW_004519798.1	scaffold5869	8153	TT	CC	CC	INTERGENIC		
SNP_114471_A_12565	NW_004519798.1	scaffold5869	12565	AA	GG	GG	SYNONYMOUS_CODING	101504694	pectinesterase-like
SNP_114472_A_12591	NW_004519798.1	scaffold5869	12591	TT	GG	GG	NON_SYNONYMOUS_CODING	101504694	pectinesterase-like
SNP_114473_A_17897	NW_004519798.1	scaffold5869	17897	CC	TT	TT	INTERGENIC		
SNP_114474_A_17953	NW_004519798.1	scaffold5869	17953	AA	TT	TT	INTERGENIC		
SNP_114475_A_17992	NW_004519798.1	scaffold5869	17992	AA	TT	TT	INTERGENIC		
SNP_114476_A_18147	NW_004519798.1	scaffold5869	18147	CC	TT	TT	INTERGENIC		
SNP_114477_A_865	NW_004519799.1	scaffold5871	865	CC	GG	GG	INTERGENIC		
SNP_114478_A_380	NW_004519800.1	scaffold5872	380	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114479_A_861	NW_004519806.1	scaffold5880	861	CC	TT	TT	INTERGENIC			
SNP_114480_A_717	NW_004519809.1	scaffold5883	717	TT	GG	GG	INTERGENIC			
SNP_114481_A_726	NW_004519809.1	scaffold5883	726	TT	CC	CC	INTERGENIC			
SNP_114482_A_774	NW_004519812.1	scaffold5889	774	AA	GG	GG	INTERGENIC			
SNP_114483_A_814	NW_004519812.1	scaffold5889	814	GG	AA	AA	INTERGENIC			
SNP_114484_A_819	NW_004519812.1	scaffold5889	819	CC	TT	TT	INTERGENIC			
SNP_114485_A_827	NW_004519812.1	scaffold5889	827	AA	TT	TT	INTERGENIC			
SNP_114486_A_1154	NW_004519812.1	scaffold5889	1154	GG	TT	TT	INTERGENIC			
SNP_114487_A_1155	NW_004519812.1	scaffold5889	1155	AA	GG	GG	INTERGENIC			
SNP_114488_A_1581	NW_004519812.1	scaffold5889	1581	GG	AA	AA	INTERGENIC			
SNP_114489_A_20417	NW_004519812.1	scaffold5889	20417	CC	TT	TT	INTERGENIC			
SNP_114490_A_20890	NW_004519812.1	scaffold5889	20890	TT	CC	CC	INTERGENIC			
SNP_114491_A_21033	NW_004519812.1	scaffold5889	21033	TT	GG	GG	INTERGENIC			
SNP_114492_A_895	NW_004519813.1	scaffold5891	895	GG	AA	AA	INTERGENIC			
SNP_114494_A_4961	NW_004519813.1	scaffold5891	4961	AA	TT	TT	INTERGENIC			
SNP_114495_A_4975	NW_004519813.1	scaffold5891	4975	TT	AA	AA	INTERGENIC			
SNP_114497_A_5893	NW_004519813.1	scaffold5891	5893	GG	TT	TT	INTERGENIC			
SNP_114498_A_6516	NW_004519813.1	scaffold5891	6516	TT	AA	AA	INTERGENIC			
SNP_114499_A_184	NW_004519820.1	scaffold5900	184	AA	GG	GG	INTERGENIC			
SNP_114500_A_332	NW_004519820.1	scaffold5900	332	AA	GG	GG	INTERGENIC			
SNP_114501_A_489	NW_004519820.1	scaffold5900	489	TT	AA	AA	INTERGENIC			
SNP_114502_A_539	NW_004519820.1	scaffold5900	539	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114503_A_591	NW_004519820.1	scaffold5900	591	AA	GG	GG	INTERGENIC			
SNP_114504_A_593	NW_004519820.1	scaffold5900	593	TT	CC	CC	INTERGENIC			
SNP_114505_A_654	NW_004519820.1	scaffold5900	654	TT	CC	CC	INTERGENIC			
SNP_114506_A_661	NW_004519820.1	scaffold5900	661	AA	GG	GG	INTERGENIC			
SNP_114507_A_693	NW_004519820.1	scaffold5900	693	AA	CC	CC	INTERGENIC			
SNP_114508_A_4968	NW_004519821.1	scaffold5901	4968	TT	CC	CC	INTERGENIC			
SNP_114509_A_4993	NW_004519821.1	scaffold5901	4993	CC	TT	TT	INTERGENIC			
SNP_114510_A_5006	NW_004519821.1	scaffold5901	5006	TT	CC	CC	INTERGENIC			
SNP_114511_A_5034	NW_004519821.1	scaffold5901	5034	GG	AA	AA	INTERGENIC			
SNP_114513_A_5103	NW_004519821.1	scaffold5901	5103	GG	AA	AA	INTERGENIC			
SNP_114514_A_5114	NW_004519821.1	scaffold5901	5114	CC	TT	TT	INTERGENIC			
SNP_114515_A_214	NW_004519823.1	scaffold5904	214	TT	CC	CC	INTERGENIC			
SNP_114516_A_14778	NW_004519823.1	scaffold5904	14778	AA	CC	CC	INTERGENIC			
SNP_114517_A_15169	NW_004519823.1	scaffold5904	15169	AA	GG	GG	INTERGENIC			
SNP_114518_A_17151	NW_004519823.1	scaffold5904	17151	AA	GG	GG	INTERGENIC			
SNP_114519_A_17254	NW_004519823.1	scaffold5904	17254	TT	GG	GG	INTERGENIC			
SNP_114521_A_17408	NW_004519823.1	scaffold5904	17408	AA	TT	TT	INTERGENIC			
SNP_114522_A_17430	NW_004519823.1	scaffold5904	17430	TT	AA	AA	INTERGENIC			
SNP_114523_A_17455	NW_004519823.1	scaffold5904	17455	GG	AA	AA	INTERGENIC			
SNP_114524_A_17582	NW_004519823.1	scaffold5904	17582	TT	CC	CC	INTERGENIC			
SNP_114525_A_17679	NW_004519823.1	scaffold5904	17679	TT	AA	AA	INTERGENIC			
SNP_114526_A_17966	NW_004519823.1	scaffold5904	17966	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114527_A_22251	NW_004519823.1	scaffold5904	22251	TT	GG	GG	INTERGENIC			
SNP_114528_A_22377	NW_004519823.1	scaffold5904	22377	TT	AA	AA	INTERGENIC			
SNP_114529_A_22469	NW_004519823.1	scaffold5904	22469	AA	CC	CC	INTERGENIC			
SNP_114530_A_22565	NW_004519823.1	scaffold5904	22565	CC	AA	AA	INTERGENIC			
SNP_114531_A_22683	NW_004519823.1	scaffold5904	22683	TT	CC	CC	INTERGENIC			
SNP_114532_A_22727	NW_004519823.1	scaffold5904	22727	CC	TT	TT	INTERGENIC			
SNP_114533_A_23293	NW_004519823.1	scaffold5904	23293	AA	TT	TT	INTERGENIC			
SNP_114535_A_23440	NW_004519823.1	scaffold5904	23440	CC	AA	AA	INTERGENIC			
SNP_114536_A_2326	NW_004519827.1	scaffold5909	2326	TT	AA	AA	INTERGENIC			
SNP_114537_A_2336	NW_004519827.1	scaffold5909	2336	AA	CC	CC	INTERGENIC			
SNP_114538_A_2503	NW_004519827.1	scaffold5909	2503	GG	CC	CC	INTERGENIC			
SNP_114539_A_1070	NW_004519829.1	scaffold5913	1070	TT	AA	AA	INTERGENIC			
SNP_114540_A_1098	NW_004519829.1	scaffold5913	1098	GG	TT	TT	INTERGENIC			
SNP_114541_A_776	NW_004519830.1	scaffold5914	776	CC	TT	TT	INTERGENIC			
SNP_114542_A_789	NW_004519830.1	scaffold5914	789	AA	CC	CC	INTERGENIC			
SNP_114543_A_1223	NW_004519830.1	scaffold5914	1223	AA	CC	CC	INTERGENIC			
SNP_114544_A_830	NW_004519832.1	scaffold5916	830	AA	TT	TT	INTERGENIC			
SNP_114545_A_835	NW_004519832.1	scaffold5916	835	GG	AA	AA	INTERGENIC			
SNP_114546_A_877	NW_004519832.1	scaffold5916	877	GG	AA	AA	INTERGENIC			
SNP_114547_A_894	NW_004519832.1	scaffold5916	894	CC	GG	GG	INTERGENIC			
SNP_114548_A_911	NW_004519832.1	scaffold5916	911	AA	GG	GG	INTERGENIC			
SNP_114549_A_918	NW_004519832.1	scaffold5916	918	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114550_A_957	NW_004519832.1	scaffold5916	957	TT	CC	CC	INTERGENIC			
SNP_114551_A_962	NW_004519832.1	scaffold5916	962	CC	AA	AA	INTERGENIC			
SNP_114552_A_971	NW_004519832.1	scaffold5916	971	CC	AA	AA	INTERGENIC			
SNP_114553_A_1080	NW_004519832.1	scaffold5916	1080	TT	GG	GG	INTERGENIC			
SNP_114555_A_1331	NW_004519832.1	scaffold5916	1331	CC	TT	TT	INTERGENIC			
SNP_114556_A_731	NW_004519833.1	scaffold5917	731	TT	CC	CC	INTERGENIC			
SNP_114557_A_868	NW_004519833.1	scaffold5917	868	GG	TT	TT	INTERGENIC			
SNP_114558_A_46	NW_004519834.1	scaffold5918	46	AA	GG	GG	INTERGENIC			
SNP_114559_A_64	NW_004519834.1	scaffold5918	64	CC	AA	AA	INTERGENIC			
SNP_114560_A_91	NW_004519834.1	scaffold5918	91	AA	TT	TT	INTERGENIC			
SNP_114561_A_116	NW_004519834.1	scaffold5918	116	CC	TT	TT	INTERGENIC			
SNP_114562_A_118	NW_004519834.1	scaffold5918	118	AA	CC	CC	INTERGENIC			
SNP_114563_A_132	NW_004519834.1	scaffold5918	132	AA	GG	GG	INTERGENIC			
SNP_114564_A_133	NW_004519834.1	scaffold5918	133	AA	GG	GG	INTERGENIC			
SNP_114565_A_285	NW_004519834.1	scaffold5918	285	AA	CC	CC	INTERGENIC			
SNP_114566_A_310	NW_004519834.1	scaffold5918	310	GG	AA	AA	INTERGENIC			
SNP_114567_A_312	NW_004519834.1	scaffold5918	312	GG	TT	TT	INTERGENIC			
SNP_114568_A_338	NW_004519834.1	scaffold5918	338	CC	AA	AA	INTERGENIC			
SNP_114569_A_340	NW_004519834.1	scaffold5918	340	AA	TT	TT	INTERGENIC			
SNP_114570_A_500	NW_004519834.1	scaffold5918	500	AA	CC	CC	INTERGENIC			
SNP_114571_A_522	NW_004519834.1	scaffold5918	522	GG	AA	AA	INTERGENIC			
SNP_114572_A_540	NW_004519834.1	scaffold5918	540	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114573_A_591	NW_004519834.1	scaffold5918	591	TT	CC	CC	INTERGENIC			
SNP_114574_A_616	NW_004519834.1	scaffold5918	616	AA	TT	TT	INTERGENIC			
SNP_114575_A_617	NW_004519834.1	scaffold5918	617	CC	TT	TT	INTERGENIC			
SNP_114576_A_659	NW_004519834.1	scaffold5918	659	AA	TT	TT	INTERGENIC			
SNP_114577_A_812	NW_004519834.1	scaffold5918	812	TT	GG	GG	INTERGENIC			
SNP_114578_A_829	NW_004519834.1	scaffold5918	829	GG	TT	TT	INTERGENIC			
SNP_114579_A_845	NW_004519834.1	scaffold5918	845	AA	GG	GG	INTERGENIC			
SNP_114580_A_871	NW_004519834.1	scaffold5918	871	GG	AA	AA	INTERGENIC			
SNP_114581_A_896	NW_004519834.1	scaffold5918	896	CC	TT	TT	INTERGENIC			
SNP_114582_A_899	NW_004519834.1	scaffold5918	899	CC	AA	AA	INTERGENIC			
SNP_114583_A_1066	NW_004519834.1	scaffold5918	1066	TT	CC	CC	INTERGENIC			
SNP_114584_A_1088	NW_004519834.1	scaffold5918	1088	GG	AA	AA	INTERGENIC			
SNP_114585_A_1119	NW_004519834.1	scaffold5918	1119	TT	CC	CC	INTERGENIC			
SNP_114586_A_840	NW_004519836.1	scaffold5920	840	CC	TT	TT	INTERGENIC			
SNP_114588_A_573	NW_004519837.1	scaffold5921	573	TT	CC	CC	INTERGENIC			
SNP_114589_A_588	NW_004519837.1	scaffold5921	588	AA	CC	CC	INTERGENIC			
SNP_114590_A_647	NW_004519837.1	scaffold5921	647	AA	CC	CC	INTERGENIC			
SNP_114591_A_687	NW_004519837.1	scaffold5921	687	GG	CC	CC	INTERGENIC			
SNP_114592_A_389	NW_004519839.1	scaffold5923	389	GG	AA	AA	INTERGENIC			
SNP_114594_A_489	NW_004519839.1	scaffold5923	489	GG	CC	CC	INTERGENIC			
SNP_114595_A_1840	NW_004519840.1	scaffold5925	1840	TT	CC	CC	INTERGENIC			
SNP_114596_A_1915	NW_004519840.1	scaffold5925	1915	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114597_A_2114	NW_004519840.1	scaffold5925	2114	GG	AA	AA	INTERGENIC			
SNP_114598_A_850	NW_004519843.1	scaffold5928	850	AA	CC	CC	INTERGENIC			
SNP_114599_A_1074	NW_004519843.1	scaffold5928	1074	GG	CC	CC	INTERGENIC			
SNP_114600_A_1312	NW_004519843.1	scaffold5928	1312	GG	AA	AA	INTERGENIC			
SNP_114601_A_1358	NW_004519843.1	scaffold5928	1358	CC	TT	TT	INTERGENIC			
SNP_114602_A_1365	NW_004519843.1	scaffold5928	1365	GG	AA	AA	INTERGENIC			
SNP_114603_A_1372	NW_004519843.1	scaffold5928	1372	GG	CC	CC	INTERGENIC			
SNP_114604_A_1388	NW_004519843.1	scaffold5928	1388	TT	CC	CC	INTERGENIC			
SNP_114605_A_1411	NW_004519843.1	scaffold5928	1411	TT	AA	AA	INTERGENIC			
SNP_114606_A_1501	NW_004519843.1	scaffold5928	1501	TT	CC	CC	INTERGENIC			
SNP_114607_A_1810	NW_004519843.1	scaffold5928	1810	TT	GG	GG	INTERGENIC			
SNP_114608_A_1836	NW_004519843.1	scaffold5928	1836	AA	GG	GG	INTERGENIC			
SNP_114609_A_1924	NW_004519843.1	scaffold5928	1924	AA	TT	TT	INTERGENIC			
SNP_114610_A_2022	NW_004519843.1	scaffold5928	2022	AA	GG	GG	INTERGENIC			
SNP_114611_A_2070	NW_004519843.1	scaffold5928	2070	AA	GG	GG	INTERGENIC			
SNP_114612_A_2076	NW_004519843.1	scaffold5928	2076	TT	GG	GG	INTERGENIC			
SNP_114613_A_2409	NW_004519843.1	scaffold5928	2409	AA	GG	GG	INTERGENIC			
SNP_114614_A_2422	NW_004519843.1	scaffold5928	2422	CC	AA	AA	INTERGENIC			
SNP_114615_A_2428	NW_004519843.1	scaffold5928	2428	AA	CC	CC	INTERGENIC			
SNP_114616_A_2437	NW_004519843.1	scaffold5928	2437	GG	AA	AA	INTERGENIC			
SNP_114617_A_2489	NW_004519843.1	scaffold5928	2489	TT	CC	CC	INTERGENIC			
SNP_114618_A_2563	NW_004519843.1	scaffold5928	2563	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114619_A_2697	NW_004519843.1	scaffold5928	2697	TT	GG	GG	INTERGENIC			
SNP_114620_A_2732	NW_004519843.1	scaffold5928	2732	TT	CC	CC	INTERGENIC			
SNP_114621_A_2803	NW_004519843.1	scaffold5928	2803	GG	AA	AA	INTERGENIC			
SNP_114622_A_2901	NW_004519843.1	scaffold5928	2901	CC	TT	TT	INTERGENIC			
SNP_114623_A_2939	NW_004519843.1	scaffold5928	2939	CC	TT	TT	INTERGENIC			
SNP_114624_A_2980	NW_004519843.1	scaffold5928	2980	TT	CC	CC	INTERGENIC			
SNP_114625_A_3205	NW_004519843.1	scaffold5928	3205	CC	GG	GG	INTERGENIC			
SNP_114626_A_3823	NW_004519843.1	scaffold5928	3823	GG	AA	AA	INTERGENIC			
SNP_114628_A_4135	NW_004519843.1	scaffold5928	4135	CC	TT	TT	INTERGENIC			
SNP_114629_A_4374	NW_004519843.1	scaffold5928	4374	AA	TT	TT	INTERGENIC			
SNP_114630_A_8268	NW_004519843.1	scaffold5928	8268	AA	TT	TT	INTERGENIC			
SNP_114631_A_8276	NW_004519843.1	scaffold5928	8276	CC	TT	TT	INTERGENIC			
SNP_114632_A_8280	NW_004519843.1	scaffold5928	8280	AA	CC	CC	INTERGENIC			
SNP_114633_A_8285	NW_004519843.1	scaffold5928	8285	TT	CC	CC	INTERGENIC			
SNP_114634_A_8291	NW_004519843.1	scaffold5928	8291	TT	AA	AA	INTERGENIC			
SNP_114635_A_8300	NW_004519843.1	scaffold5928	8300	AA	GG	GG	INTERGENIC			
SNP_114636_A_8355	NW_004519843.1	scaffold5928	8355	CC	GG	GG	INTERGENIC			
SNP_114637_A_8382	NW_004519843.1	scaffold5928	8382	GG	AA	AA	INTERGENIC			
SNP_114638_A_8402	NW_004519843.1	scaffold5928	8402	TT	GG	GG	INTERGENIC			
SNP_114639_A_8424	NW_004519843.1	scaffold5928	8424	TT	GG	AA	INTERGENIC			
SNP_114640_A_8662	NW_004519843.1	scaffold5928	8662	TT	GG	GG	INTERGENIC			
SNP_114641_A_8676	NW_004519843.1	scaffold5928	8676	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114642_A_8857	NW_004519843.1	scaffold5928	8857	AA	TT	TT	INTERGENIC		
SNP_114643_A_8916	NW_004519843.1	scaffold5928	8916	AA	CC	CC	INTERGENIC		
SNP_114644_A_1674	NW_004519844.1	scaffold5929	1674	AA	CC	CC	INTERGENIC		
SNP_114645_A_20565	NW_004519846.1	scaffold5932	20565	CC	TT	TT	SYNONYMOUS_CODING	101505019	uncharacterized LOC101505019
SNP_114646_A_28938	NW_004519848.1	scaffold5934	28938	CC	TT	TT	INTERGENIC		
SNP_114647_A_28971	NW_004519848.1	scaffold5934	28971	TT	CC	CC	INTERGENIC		
SNP_114648_A_28983	NW_004519848.1	scaffold5934	28983	AA	GG	GG	INTERGENIC		
SNP_114649_A_28998	NW_004519848.1	scaffold5934	28998	AA	GG	GG	INTERGENIC		
SNP_114650_A_29057	NW_004519848.1	scaffold5934	29057	AA	CC	CC	INTERGENIC		
SNP_114651_A_64	NW_004519852.1	scaffold5938	64	TT	GG	GG	INTERGENIC		
SNP_114652_A_105	NW_004519852.1	scaffold5938	105	CC	TT	TT	INTERGENIC		
SNP_114653_A_64	NW_004519853.1	scaffold5939	64	TT	GG	GG	INTERGENIC		
SNP_114654_A_65	NW_004519853.1	scaffold5939	65	TT	CC	CC	INTERGENIC		
SNP_114655_A_90	NW_004519853.1	scaffold5939	90	CC	TT	TT	INTERGENIC		
SNP_114656_A_91	NW_004519853.1	scaffold5939	91	GG	TT	TT	INTERGENIC		
SNP_114657_A_415	NW_004519853.1	scaffold5939	415	AA	GG	GG	INTERGENIC		
SNP_114658_A_486	NW_004519856.1	scaffold5945	486	TT	AA	AA	DRR	101505339	Unknown function
SNP_114659_A_1043	NW_004519856.1	scaffold5945	1043	CC	TT	TT	DRR	101505339	Unknown function
SNP_114660_A_1055	NW_004519856.1	scaffold5945	1055	GG	AA	AA	DRR	101505339	Unknown function
SNP_114661_A_1132	NW_004519856.1	scaffold5945	1132	CC	TT	TT	DRR	101505339	Unknown function
SNP_114662_A_1149	NW_004519856.1	scaffold5945	1149	TT	GG	GG	DRR	101505339	Unknown function
SNP_114663_A_1150	NW_004519856.1	scaffold5945	1150	GG	TT	TT	DRR	101505339	Unknown function

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114664_A_1181	NW_004519856.1	scaffold5945	1181	CC	AA	AA	DRR	101505339	Unknown function
SNP_114665_A_1310	NW_004519856.1	scaffold5945	1310	TT	CC	CC	SYNONYMOUS_CODING	101505339	Unknown function
SNP_114667_A_1779	NW_004519859.1	scaffold5952	1779	GG	TT	TT	INTERGENIC		
SNP_114668_A_1783	NW_004519859.1	scaffold5952	1783	TT	CC	CC	INTERGENIC		
SNP_114669_A_1993	NW_004519859.1	scaffold5952	1993	CC	AA	AA	INTERGENIC		
SNP_114670_A_2066	NW_004519859.1	scaffold5952	2066	AA	TT	TT	INTERGENIC		
SNP_114671_A_2119	NW_004519859.1	scaffold5952	2119	TT	GG	GG	INTERGENIC		
SNP_114672_A_2126	NW_004519859.1	scaffold5952	2126	AA	TT	TT	INTERGENIC		
SNP_114673_A_745	NW_004519861.1	scaffold5954	745	AA	GG	GG	INTERGENIC		
SNP_114674_A_755	NW_004519861.1	scaffold5954	755	GG	AA	AA	INTERGENIC		
SNP_114675_A_840	NW_004519861.1	scaffold5954	840	AA	TT	TT	INTERGENIC		
SNP_114676_A_1097	NW_004519861.1	scaffold5954	1097	AA	TT	TT	INTERGENIC		
SNP_114677_A_1213	NW_004519861.1	scaffold5954	1213	TT	AA	AA	INTERGENIC		
SNP_114678_A_1267	NW_004519861.1	scaffold5954	1267	GG	AA	AA	INTERGENIC		
SNP_114679_A_1282	NW_004519861.1	scaffold5954	1282	TT	AA	AA	INTERGENIC		
SNP_114680_A_1318	NW_004519861.1	scaffold5954	1318	CC	TT	TT	INTERGENIC		
SNP_114681_A_1406	NW_004519861.1	scaffold5954	1406	GG	AA	AA	INTERGENIC		
SNP_114683_A_1448	NW_004519861.1	scaffold5954	1448	AA	TT	TT	INTERGENIC		
SNP_114684_A_762	NW_004519862.1	scaffold5955	762	AA	GG	GG	INTERGENIC		
SNP_114685_A_902	NW_004519862.1	scaffold5955	902	CC	AA	AA	INTERGENIC		
SNP_114686_A_907	NW_004519862.1	scaffold5955	907	CC	AA	AA	INTERGENIC		
SNP_114688_A_1437	NW_004519862.1	scaffold5955	1437	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114689_A_1445	NW_004519862.1	scaffold5955	1445	TT	GG	GG	INTERGENIC			
SNP_114690_A_1475	NW_004519862.1	scaffold5955	1475	TT	GG	GG	INTERGENIC			
SNP_114691_A_1492	NW_004519862.1	scaffold5955	1492	AA	GG	GG	INTERGENIC			
SNP_114692_A_1503	NW_004519862.1	scaffold5955	1503	TT	CC	CC	INTERGENIC			
SNP_114693_A_1508	NW_004519862.1	scaffold5955	1508	AA	GG	GG	INTERGENIC			
SNP_114694_A_1509	NW_004519862.1	scaffold5955	1509	TT	CC	CC	INTERGENIC			
SNP_114695_A_1543	NW_004519862.1	scaffold5955	1543	AA	CC	CC	INTERGENIC			
SNP_114696_A_1585	NW_004519862.1	scaffold5955	1585	TT	CC	CC	INTERGENIC			
SNP_114697_A_1630	NW_004519862.1	scaffold5955	1630	TT	CC	CC	INTERGENIC			
SNP_114698_A_1642	NW_004519862.1	scaffold5955	1642	AA	GG	GG	INTERGENIC			
SNP_114699_A_1645	NW_004519862.1	scaffold5955	1645	AA	CC	CC	INTERGENIC			
SNP_114700_A_1655	NW_004519862.1	scaffold5955	1655	AA	GG	GG	INTERGENIC			
SNP_114701_A_749	NW_004519867.1	scaffold5960	749	TT	CC	CC	INTERGENIC			
SNP_114702_A_819	NW_004519867.1	scaffold5960	819	TT	AA	AA	INTERGENIC			
SNP_114703_A_878	NW_004519867.1	scaffold5960	878	TT	CC	CC	INTERGENIC			
SNP_114704_A_1096	NW_004519867.1	scaffold5960	1096	GG	AA	AA	INTERGENIC			
SNP_114705_A_1273	NW_004519867.1	scaffold5960	1273	TT	CC	CC	INTERGENIC			
SNP_114706_A_1331	NW_004519867.1	scaffold5960	1331	AA	TT	TT	INTERGENIC			
SNP_114707_A_544	NW_004519868.1	scaffold5963	544	CC	AA	AA	INTERGENIC			
SNP_114708_A_545	NW_004519868.1	scaffold5963	545	AA	CC	CC	INTERGENIC			
SNP_114709_A_572	NW_004519868.1	scaffold5963	572	AA	CC	CC	INTERGENIC			
SNP_114710_A_171	NW_004519876.1	scaffold5977	171	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114712_A_747	NW_004519876.1	scaffold5977	747	GG	CC	CC	INTERGENIC			
SNP_114713_A_841	NW_004519876.1	scaffold5977	841	CC	TT	TT	INTERGENIC			
SNP_114714_A_1207	NW_004519876.1	scaffold5977	1207	CC	TT	TT	INTERGENIC			
SNP_114715_A_3269	NW_004519876.1	scaffold5977	3269	TT	CC	CC	INTERGENIC			
SNP_114717_A_4552	NW_004519876.1	scaffold5977	4552	CC	TT	TT	INTERGENIC			
SNP_114718_A_4595	NW_004519876.1	scaffold5977	4595	GG	TT	TT	INTERGENIC			
SNP_114720_A_4703	NW_004519876.1	scaffold5977	4703	GG	TT	TT	INTERGENIC			
SNP_114721_A_4712	NW_004519876.1	scaffold5977	4712	GG	AA	AA	INTERGENIC			
SNP_114722_A_4717	NW_004519876.1	scaffold5977	4717	CC	AA	AA	INTERGENIC			
SNP_114723_A_4786	NW_004519876.1	scaffold5977	4786	GG	AA	AA	INTERGENIC			
SNP_114724_A_4825	NW_004519876.1	scaffold5977	4825	GG	AA	AA	INTERGENIC			
SNP_114725_A_4887	NW_004519876.1	scaffold5977	4887	AA	GG	GG	INTERGENIC			
SNP_114726_A_6801	NW_004519876.1	scaffold5977	6801	CC	TT	TT	INTERGENIC			
SNP_114727_A_7790	NW_004519876.1	scaffold5977	7790	GG	AA	AA	INTERGENIC			
SNP_114729_A_14513	NW_004519876.1	scaffold5977	14513	AA	CC	CC	INTERGENIC			
SNP_114730_A_14528	NW_004519876.1	scaffold5977	14528	TT	AA	AA	INTERGENIC			
SNP_114732_A_14829	NW_004519876.1	scaffold5977	14829	TT	CC	CC	INTERGENIC			
SNP_114733_A_364	NW_004519877.1	scaffold5979	364	CC	AA	AA	INTERGENIC			
SNP_114734_A_569	NW_004519877.1	scaffold5979	569	TT	CC	CC	INTERGENIC			
SNP_114735_A_622	NW_004519877.1	scaffold5979	622	TT	GG	GG	INTERGENIC			
SNP_114736_A_117	NW_004519878.1	scaffold5982	117	AA	GG	GG	INTERGENIC			
SNP_114737_A_1286	NW_004519878.1	scaffold5982	1286	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114738_A_1287	NW_004519878.1	scaffold5982	1287	CC	TT	TT	INTERGENIC			
SNP_114739_A_1309	NW_004519878.1	scaffold5982	1309	GG	TT	TT	INTERGENIC			
SNP_114740_A_409	NW_004519882.1	scaffold5988	409	CC	TT	TT	INTERGENIC			
SNP_114741_A_150	NW_004519884.1	scaffold5992	150	TT	AA	AA	INTERGENIC			
SNP_114742_A_534	NW_004519884.1	scaffold5992	534	TT	GG	GG	INTERGENIC			
SNP_114743_A_556	NW_004519884.1	scaffold5992	556	GG	AA	AA	INTERGENIC			
SNP_114745_A_1516	NW_004519884.1	scaffold5992	1516	GG	AA	AA	INTERGENIC			
SNP_114747_A_17898	NW_004519885.1	scaffold5993	17898	TT	AA	AA	INTERGENIC			
SNP_114748_A_17912	NW_004519885.1	scaffold5993	17912	GG	TT	TT	INTERGENIC			
SNP_114749_A_18022	NW_004519885.1	scaffold5993	18022	TT	CC	CC	INTERGENIC			
SNP_114750_A_18092	NW_004519885.1	scaffold5993	18092	AA	GG	GG	INTERGENIC			
SNP_114751_A_18120	NW_004519885.1	scaffold5993	18120	AA	TT	TT	INTERGENIC			
SNP_114752_A_18167	NW_004519885.1	scaffold5993	18167	AA	TT	TT	INTERGENIC			
SNP_114753_A_18320	NW_004519885.1	scaffold5993	18320	CC	TT	TT	INTERGENIC			
SNP_114754_A_18394	NW_004519885.1	scaffold5993	18394	TT	CC	CC	INTERGENIC			
SNP_114755_A_18534	NW_004519885.1	scaffold5993	18534	CC	TT	TT	DRR	101505993	amino acid permease 6-like	
SNP_114758_A_18677	NW_004519885.1	scaffold5993	18677	GG	AA	AA	DRR	101505993	amino acid permease 6-like	
SNP_114759_A_18720	NW_004519885.1	scaffold5993	18720	TT	GG	GG	DRR	101505993	amino acid permease 6-like	
SNP_114760_A_4448	NW_004519886.1	scaffold5994	4448	GG	AA	AA	INTERGENIC			
SNP_114761_A_4644	NW_004519886.1	scaffold5994	4644	TT	GG	GG	INTERGENIC			
SNP_114762_A_7311	NW_004519886.1	scaffold5994	7311	GG	AA	AA	INTERGENIC			
SNP_114763_A_7315	NW_004519886.1	scaffold5994	7315	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114764_A_745	NW_004519889.1	scaffold5997	745	CC	AA	AA	INTERGENIC			
SNP_114765_A_1061	NW_004519889.1	scaffold5997	1061	GG	TT	TT	INTERGENIC			
SNP_114766_A_1118	NW_004519889.1	scaffold5997	1118	GG	AA	AA	INTERGENIC			
SNP_114767_A_2215	NW_004519889.1	scaffold5997	2215	AA	TT	TT	INTERGENIC			
SNP_114768_A_2239	NW_004519889.1	scaffold5997	2239	AA	GG	GG	INTERGENIC			
SNP_114769_A_1137	NW_004519891.1	scaffold5999	1137	AA	CC	CC	INTERGENIC			
SNP_114770_A_2467	NW_004519895.1	scaffold6005	2467	AA	CC	CC	INTERGENIC			
SNP_114771_A_3151	NW_004519895.1	scaffold6005	3151	AA	GG	GG	INTERGENIC			
SNP_114772_A_688	NW_004519901.1	scaffold6012	688	GG	TT	TT	INTERGENIC			
SNP_114773_A_6122	NW_004519901.1	scaffold6012	6122	GG	AA	AA	INTERGENIC			
SNP_114774_A_6251	NW_004519901.1	scaffold6012	6251	CC	TT	TT	INTERGENIC			
SNP_114775_A_22115	NW_004519901.1	scaffold6012	22115	TT	AA	AA	INTERGENIC			
SNP_114776_A_22463	NW_004519901.1	scaffold6012	22463	TT	AA	AA	INTERGENIC			
SNP_114777_A_1876	NW_004519905.1	scaffold6017	1876	GG	CC	CC	INTERGENIC			
SNP_114778_A_64	NW_004519907.1	scaffold6020	64	TT	CC	CC	INTERGENIC			
SNP_114779_A_77	NW_004519907.1	scaffold6020	77	TT	GG	GG	INTERGENIC			
SNP_114780_A_102	NW_004519907.1	scaffold6020	102	AA	GG	GG	INTERGENIC			
SNP_114781_A_138	NW_004519907.1	scaffold6020	138	TT	CC	CC	INTERGENIC			
SNP_114782_A_461	NW_004519907.1	scaffold6020	461	TT	AA	AA	INTERGENIC			
SNP_114783_A_468	NW_004519907.1	scaffold6020	468	TT	AA	AA	INTERGENIC			
SNP_114784_A_1420	NW_004519907.1	scaffold6020	1420	TT	GG	GG	INTERGENIC			
SNP_114785_A_1444	NW_004519907.1	scaffold6020	1444	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114786_A_18830	NW_004519909.1	scaffold6022	18830	AA	GG	GG	INTERGENIC			
SNP_114787_A_18860	NW_004519909.1	scaffold6022	18860	GG	TT	TT	INTERGENIC			
SNP_114788_A_18915	NW_004519909.1	scaffold6022	18915	CC	AA	AA	INTERGENIC			
SNP_114789_A_18916	NW_004519909.1	scaffold6022	18916	CC	AA	AA	INTERGENIC			
SNP_114790_A_19902	NW_004519909.1	scaffold6022	19902	TT	CC	CC	INTERGENIC			
SNP_114791_A_19930	NW_004519909.1	scaffold6022	19930	GG	AA	AA	INTERGENIC			
SNP_114792_A_19940	NW_004519909.1	scaffold6022	19940	TT	CC	CC	INTERGENIC			
SNP_114793_A_19941	NW_004519909.1	scaffold6022	19941	AA	TT	TT	INTERGENIC			
SNP_114794_A_19955	NW_004519909.1	scaffold6022	19955	TT	GG	GG	INTERGENIC			
SNP_114795_A_19988	NW_004519909.1	scaffold6022	19988	AA	GG	GG	INTERGENIC			
SNP_114796_A_19998	NW_004519909.1	scaffold6022	19998	TT	CC	CC	INTERGENIC			
SNP_114797_A_20018	NW_004519909.1	scaffold6022	20018	GG	CC	CC	INTERGENIC			
SNP_114798_A_20022	NW_004519909.1	scaffold6022	20022	GG	TT	TT	INTERGENIC			
SNP_114799_A_20025	NW_004519909.1	scaffold6022	20025	TT	AA	AA	INTERGENIC			
SNP_114800_A_20059	NW_004519909.1	scaffold6022	20059	TT	CC	CC	INTERGENIC			
SNP_114801_A_20067	NW_004519909.1	scaffold6022	20067	GG	AA	AA	INTERGENIC			
SNP_114802_A_20069	NW_004519909.1	scaffold6022	20069	AA	GG	GG	INTERGENIC			
SNP_114803_A_20081	NW_004519909.1	scaffold6022	20081	TT	AA	AA	INTERGENIC			
SNP_114804_A_2173	NW_004519915.1	scaffold6034	2173	GG	TT	TT	INTERGENIC			
SNP_114805_A_6806	NW_004519927.1	scaffold6055	6806	GG	AA	AA	INTERGENIC			
SNP_114806_A_8845	NW_004519927.1	scaffold6055	8845	GG	TT	TT	INTERGENIC			
SNP_114807_A_704	NW_004519932.1	scaffold6063	704	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114808_A_1334	NW_004519933.1	scaffold6064	1334	GG	AA	AA	INTERGENIC			
SNP_114809_A_1665	NW_004519933.1	scaffold6064	1665	GG	TT	TT	INTERGENIC			
SNP_114810_A_2419	NW_004519935.1	scaffold6066	2419	CC	TT	TT	INTERGENIC			
SNP_114811_A_2697	NW_004519935.1	scaffold6066	2697	GG	AA	AA	INTERGENIC			
SNP_114812_A_2749	NW_004519935.1	scaffold6066	2749	GG	AA	AA	INTERGENIC			
SNP_114813_A_2775	NW_004519935.1	scaffold6066	2775	TT	GG	GG	INTERGENIC			
SNP_114814_A_2777	NW_004519935.1	scaffold6066	2777	AA	GG	GG	INTERGENIC			
SNP_114816_A_2866	NW_004519935.1	scaffold6066	2866	CC	TT	TT	INTERGENIC			
SNP_114817_A_2986	NW_004519935.1	scaffold6066	2986	TT	AA	AA	INTERGENIC			
SNP_114818_A_2995	NW_004519935.1	scaffold6066	2995	TT	AA	AA	INTERGENIC			
SNP_114819_A_2999	NW_004519935.1	scaffold6066	2999	GG	AA	AA	INTERGENIC			
SNP_114820_A_133	NW_004519939.1	scaffold6071	133	CC	TT	TT	INTERGENIC			
SNP_114821_A_1956	NW_004519942.1	scaffold6075	1956	AA	CC	CC	INTERGENIC			
SNP_114822_A_927	NW_004519943.1	scaffold6077	927	AA	TT	TT	INTERGENIC			
SNP_114823_A_195	NW_004519948.1	scaffold6085	195	TT	CC	CC	INTERGENIC			
SNP_114825_A_16418	NW_004519951.1	scaffold6091	16418	AA	TT	TT	INTERGENIC			
SNP_114826_A_16433	NW_004519951.1	scaffold6091	16433	GG	TT	TT	INTERGENIC			
SNP_114827_A_105	NW_004519952.1	scaffold6092	105	CC	AA	AA	INTERGENIC			
SNP_114828_A_123	NW_004519952.1	scaffold6092	123	GG	AA	AA	INTERGENIC			
SNP_114829_A_133	NW_004519952.1	scaffold6092	133	GG	AA	AA	INTERGENIC			
SNP_114830_A_160	NW_004519952.1	scaffold6092	160	CC	TT	TT	INTERGENIC			
SNP_114831_A_265	NW_004519952.1	scaffold6092	265	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114832_A_351	NW_004519952.1	scaffold6092	351	GG	AA	AA	INTERGENIC			
SNP_114833_A_363	NW_004519952.1	scaffold6092	363	AA	GG	GG	INTERGENIC			
SNP_114834_A_372	NW_004519952.1	scaffold6092	372	TT	CC	CC	INTERGENIC			
SNP_114835_A_407	NW_004519952.1	scaffold6092	407	AA	GG	GG	INTERGENIC			
SNP_114836_A_460	NW_004519952.1	scaffold6092	460	AA	GG	GG	INTERGENIC			
SNP_114837_A_700	NW_004519952.1	scaffold6092	700	GG	TT	TT	INTERGENIC			
SNP_114838_A_710	NW_004519952.1	scaffold6092	710	AA	GG	GG	INTERGENIC			
SNP_114840_A_1184	NW_004519952.1	scaffold6092	1184	AA	GG	GG	INTERGENIC			
SNP_114841_A_903	NW_004519954.1	scaffold6095	903	AA	CC	CC	INTERGENIC			
SNP_114842_A_1135	NW_004519965.1	scaffold6113	1135	CC	TT	TT	INTERGENIC			
SNP_114843_A_1154	NW_004519965.1	scaffold6113	1154	TT	AA	AA	INTERGENIC			
SNP_114844_A_1379	NW_004519965.1	scaffold6113	1379	TT	CC	CC	INTERGENIC			
SNP_114845_A_1428	NW_004519965.1	scaffold6113	1428	CC	TT	TT	INTERGENIC			
SNP_114847_A_1749	NW_004519965.1	scaffold6113	1749	TT	AA	AA	INTERGENIC			
SNP_114848_A_1750	NW_004519965.1	scaffold6113	1750	AA	CC	CC	INTERGENIC			
SNP_114849_A_1776	NW_004519965.1	scaffold6113	1776	TT	AA	AA	INTERGENIC			
SNP_114850_A_5344	NW_004519969.1	scaffold6117	5344	AA	TT	TT	INTERGENIC			
SNP_114851_A_5499	NW_004519969.1	scaffold6117	5499	GG	TT	TT	INTERGENIC			
SNP_114852_A_2013	NW_004519970.1	scaffold6120	2013	CC	TT	TT	INTERGENIC			
SNP_114854_A_2322	NW_004519970.1	scaffold6120	2322	AA	TT	TT	INTERGENIC			
SNP_114855_A_2549	NW_004519970.1	scaffold6120	2549	TT	GG	GG	INTERGENIC			
SNP_114857_A_3813	NW_004519970.1	scaffold6120	3813	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114858_A_4083	NW_004519970.1	scaffold6120	4083	AA	GG	GG	INTERGENIC			
SNP_114859_A_4094	NW_004519970.1	scaffold6120	4094	GG	CC	CC	INTERGENIC			
SNP_114861_A_16182	NW_004519971.1	scaffold6121	16182	AA	CC	CC	INTERGENIC			
SNP_114862_A_16395	NW_004519971.1	scaffold6121	16395	GG	AA	AA	INTERGENIC			
SNP_114863_A_5103	NW_004519973.1	scaffold6123	5103	CC	TT	TT	INTERGENIC			
SNP_114864_A_5116	NW_004519973.1	scaffold6123	5116	GG	AA	AA	INTERGENIC			
SNP_114865_A_439	NW_004519975.1	scaffold6125	439	GG	AA	AA	INTERGENIC			
SNP_114866_A_494	NW_004519975.1	scaffold6125	494	GG	TT	TT	INTERGENIC			
SNP_114867_A_1034	NW_004519975.1	scaffold6125	1034	AA	TT	TT	INTERGENIC			
SNP_114868_A_1106	NW_004519975.1	scaffold6125	1106	CC	TT	TT	INTERGENIC			
SNP_114869_A_1183	NW_004519975.1	scaffold6125	1183	AA	GG	GG	INTERGENIC			
SNP_114870_A_1323	NW_004519975.1	scaffold6125	1323	TT	AA	AA	INTERGENIC			
SNP_114871_A_1402	NW_004519975.1	scaffold6125	1402	AA	GG	GG	INTERGENIC			
SNP_114873_A_1563	NW_004519975.1	scaffold6125	1563	CC	AA	AA	INTERGENIC			
SNP_114874_A_1568	NW_004519975.1	scaffold6125	1568	AA	GG	GG	INTERGENIC			
SNP_114875_A_1620	NW_004519975.1	scaffold6125	1620	TT	GG	GG	INTERGENIC			
SNP_114876_A_1647	NW_004519975.1	scaffold6125	1647	TT	CC	CC	INTERGENIC			
SNP_114877_A_1724	NW_004519975.1	scaffold6125	1724	CC	TT	TT	INTERGENIC			
SNP_114878_A_23027	NW_004519977.1	scaffold6127	23027	TT	GG	GG	INTERGENIC			
SNP_114879_A_91	NW_004519978.1	scaffold6128	91	CC	GG	GG	INTERGENIC			
SNP_114880_A_134	NW_004519978.1	scaffold6128	134	AA	GG	GG	INTERGENIC			
SNP_114881_A_460	NW_004519978.1	scaffold6128	460	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114882_A_64	NW_004519980.1	scaffold6131	64	GG	AA	AA	INTERGENIC			
SNP_114883_A_5453	NW_004519980.1	scaffold6131	5453	TT	GG	GG	INTERGENIC			
SNP_114884_A_5470	NW_004519980.1	scaffold6131	5470	CC	AA	AA	INTERGENIC			
SNP_114885_A_9553	NW_004519980.1	scaffold6131	9553	TT	AA	AA	INTERGENIC			
SNP_114886_A_9862	NW_004519980.1	scaffold6131	9862	AA	TT	TT	INTERGENIC			
SNP_114887_A_10768	NW_004519980.1	scaffold6131	10768	TT	CC	CC	INTERGENIC			
SNP_114888_A_1360	NW_004519981.1	scaffold6133	1360	AA	CC	CC	INTERGENIC			
SNP_114889_A_177	NW_004519983.1	scaffold6135	177	AA	GG	GG	INTERGENIC			
SNP_114890_A_635	NW_004519985.1	scaffold6137	635	AA	TT	TT	INTERGENIC			
SNP_114891_A_3616	NW_004519985.1	scaffold6137	3616	CC	TT	TT	INTERGENIC			
SNP_114892_A_3673	NW_004519985.1	scaffold6137	3673	TT	GG	GG	INTERGENIC			
SNP_114893_A_3823	NW_004519985.1	scaffold6137	3823	TT	CC	CC	INTERGENIC			
SNP_114894_A_629	NW_004519989.1	scaffold6149	629	GG	TT	TT	INTERGENIC			
SNP_114895_A_816	NW_004519989.1	scaffold6149	816	AA	CC	CC	INTERGENIC			
SNP_114896_A_20381	NW_004519992.1	scaffold6153	20381	CC	AA	AA	INTERGENIC			
SNP_114898_A_20425	NW_004519992.1	scaffold6153	20425	TT	AA	AA	INTERGENIC			
SNP_114899_A_153	NW_004519993.1	scaffold6154	153	AA	GG	GG	INTERGENIC			
SNP_114900_A_225	NW_004519993.1	scaffold6154	225	CC	AA	AA	INTERGENIC			
SNP_114901_A_295	NW_004519993.1	scaffold6154	295	CC	TT	TT	INTERGENIC			
SNP_114902_A_426	NW_004519993.1	scaffold6154	426	GG	AA	AA	INTERGENIC			
SNP_114903_A_436	NW_004519993.1	scaffold6154	436	TT	CC	CC	INTERGENIC			
SNP_114904_A_490	NW_004519993.1	scaffold6154	490	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114905_A_507	NW_004519993.1	scaffold6154	507	GG	TT	TT	INTERGENIC			
SNP_114906_A_510	NW_004519993.1	scaffold6154	510	GG	AA	AA	INTERGENIC			
SNP_114908_A_563	NW_004519993.1	scaffold6154	563	CC	AA	AA	INTERGENIC			
SNP_114909_A_565	NW_004519993.1	scaffold6154	565	GG	AA	AA	INTERGENIC			
SNP_114910_A_670	NW_004519993.1	scaffold6154	670	CC	TT	TT	INTERGENIC			
SNP_114911_A_680	NW_004519993.1	scaffold6154	680	AA	TT	TT	INTERGENIC			
SNP_114912_A_682	NW_004519993.1	scaffold6154	682	TT	CC	CC	INTERGENIC			
SNP_114913_A_168	NW_004519994.1	scaffold6155	168	CC	TT	TT	INTERGENIC			
SNP_114914_A_1680	NW_004519995.1	scaffold6157	1680	TT	AA	AA	INTERGENIC			
SNP_114915_A_1714	NW_004519995.1	scaffold6157	1714	GG	TT	TT	INTERGENIC			
SNP_114916_A_284	NW_004519996.1	scaffold6158	284	CC	TT	TT	INTERGENIC			
SNP_114918_A_599	NW_004519996.1	scaffold6158	599	TT	CC	CC	INTERGENIC			
SNP_114919_A_716	NW_004519996.1	scaffold6158	716	CC	AA	AA	INTERGENIC			
SNP_114920_A_726	NW_004519996.1	scaffold6158	726	AA	GG	GG	INTERGENIC			
SNP_114921_A_1124	NW_004519996.1	scaffold6158	1124	AA	CC	CC	INTERGENIC			
SNP_114922_A_1300	NW_004519996.1	scaffold6158	1300	AA	TT	TT	INTERGENIC			
SNP_114923_A_1812	NW_004519996.1	scaffold6158	1812	GG	CC	CC	INTERGENIC			
SNP_114924_A_1861	NW_004519996.1	scaffold6158	1861	GG	AA	AA	INTERGENIC			
SNP_114925_A_1879	NW_004519996.1	scaffold6158	1879	AA	GG	GG	INTERGENIC			
SNP_114926_A_1947	NW_004519996.1	scaffold6158	1947	GG	CC	CC	INTERGENIC			
SNP_114927_A_598	NW_004520003.1	scaffold6169	598	GG	TT	TT	INTERGENIC			
SNP_114928_A_830	NW_004520003.1	scaffold6169	830	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114929_A_931	NW_004520003.1	scaffold6169	931	TT	GG	GG	INTERGENIC			
SNP_114930_A_1204	NW_004520003.1	scaffold6169	1204	CC	TT	TT	INTERGENIC			
SNP_114931_A_962	NW_004520005.1	scaffold6171	962	TT	CC	CC	INTERGENIC			
SNP_114932_A_18956	NW_004520006.1	scaffold6172	18956	TT	AA	AA	INTERGENIC			
SNP_114933_A_19022	NW_004520006.1	scaffold6172	19022	TT	AA	AA	INTERGENIC			
SNP_114934_A_19048	NW_004520006.1	scaffold6172	19048	GG	AA	AA	INTERGENIC			
SNP_114935_A_19086	NW_004520006.1	scaffold6172	19086	AA	GG	GG	INTERGENIC			
SNP_114936_A_19128	NW_004520006.1	scaffold6172	19128	TT	AA	AA	INTERGENIC			
SNP_114937_A_19469	NW_004520006.1	scaffold6172	19469	GG	TT	TT	INTERGENIC			
SNP_114938_A_19480	NW_004520006.1	scaffold6172	19480	TT	GG	GG	INTERGENIC			
SNP_114939_A_19808	NW_004520006.1	scaffold6172	19808	TT	AA	AA	INTERGENIC			
SNP_114940_A_19934	NW_004520006.1	scaffold6172	19934	AA	CC	CC	INTERGENIC			
SNP_114941_A_20145	NW_004520006.1	scaffold6172	20145	CC	TT	TT	INTERGENIC			
SNP_114942_A_20234	NW_004520006.1	scaffold6172	20234	AA	GG	GG	INTERGENIC			
SNP_114943_A_20729	NW_004520006.1	scaffold6172	20729	GG	AA	AA	INTERGENIC			
SNP_114944_A_20898	NW_004520006.1	scaffold6172	20898	CC	AA	AA	INTERGENIC			
SNP_114945_A_20955	NW_004520006.1	scaffold6172	20955	TT	CC	CC	INTERGENIC			
SNP_114946_A_24055	NW_004520006.1	scaffold6172	24055	TT	CC	CC	INTERGENIC			
SNP_114947_A_27912	NW_004520006.1	scaffold6172	27912	AA	GG	GG	INTERGENIC			
SNP_114948_A_30113	NW_004520006.1	scaffold6172	30113	AA	CC	CC	INTERGENIC			
SNP_114949_A_37206	NW_004520006.1	scaffold6172	37206	GG	TT	TT	INTERGENIC			
SNP_114950_A_37233	NW_004520006.1	scaffold6172	37233	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114951_A_37290	NW_004520006.1	scaffold6172	37290	AA	GG	GG	INTERGENIC			
SNP_114952_A_37295	NW_004520006.1	scaffold6172	37295	AA	CC	CC	INTERGENIC			
SNP_114953_A_37311	NW_004520006.1	scaffold6172	37311	AA	TT	TT	INTERGENIC			
SNP_114954_A_37312	NW_004520006.1	scaffold6172	37312	AA	GG	GG	INTERGENIC			
SNP_114955_A_37394	NW_004520006.1	scaffold6172	37394	TT	CC	CC	INTERGENIC			
SNP_114956_A_37395	NW_004520006.1	scaffold6172	37395	TT	AA	AA	INTERGENIC			
SNP_114957_A_37415	NW_004520006.1	scaffold6172	37415	CC	AA	AA	INTERGENIC			
SNP_114958_A_37991	NW_004520006.1	scaffold6172	37991	TT	GG	GG	INTERGENIC			
SNP_114959_A_39066	NW_004520006.1	scaffold6172	39066	TT	GG	GG	INTERGENIC			
SNP_114961_A_448	NW_004520007.1	scaffold6173	448	TT	AA	AA	INTERGENIC			
SNP_114962_A_487	NW_004520007.1	scaffold6173	487	CC	GG	GG	INTERGENIC			
SNP_114963_A_684	NW_004520008.1	scaffold6174	684	AA	GG	GG	INTERGENIC			
SNP_114964_A_704	NW_004520008.1	scaffold6174	704	GG	AA	AA	INTERGENIC			
SNP_114965_A_749	NW_004520008.1	scaffold6174	749	TT	GG	GG	INTERGENIC			
SNP_114966_A_758	NW_004520008.1	scaffold6174	758	TT	GG	GG	INTERGENIC			
SNP_114967_A_776	NW_004520008.1	scaffold6174	776	AA	GG	GG	INTERGENIC			
SNP_114968_A_981	NW_004520008.1	scaffold6174	981	TT	AA	AA	INTERGENIC			
SNP_114969_A_982	NW_004520008.1	scaffold6174	982	AA	TT	TT	INTERGENIC			
SNP_114970_A_3365	NW_004520011.1	scaffold6177	3365	AA	TT	TT	INTERGENIC			
SNP_114972_A_3725	NW_004520011.1	scaffold6177	3725	GG	AA	AA	INTERGENIC			
SNP_114973_A_3833	NW_004520011.1	scaffold6177	3833	GG	TT	TT	INTERGENIC			
SNP_114974_A_4331	NW_004520011.1	scaffold6177	4331	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_114975_A_4805	NW_004520011.1	scaffold6177	4805	TT	GG	GG	INTERGENIC			
SNP_114976_A_912	NW_004520013.1	scaffold6179	912	GG	CC	CC	INTERGENIC			
SNP_114978_A_1394	NW_004520017.1	scaffold6184	1394	AA	GG	GG	INTERGENIC			
SNP_114979_A_77	NW_004520018.1	scaffold6185	77	TT	GG	GG	INTERGENIC			
SNP_114980_A_123	NW_004520018.1	scaffold6185	123	AA	TT	TT	INTERGENIC			
SNP_114981_A_381	NW_004520018.1	scaffold6185	381	AA	GG	GG	INTERGENIC			
SNP_114982_A_383	NW_004520018.1	scaffold6185	383	CC	AA	AA	INTERGENIC			
SNP_114984_A_542	NW_004520018.1	scaffold6185	542	AA	CC	CC	INTERGENIC			
SNP_114985_A_559	NW_004520018.1	scaffold6185	559	TT	CC	CC	INTERGENIC			
SNP_114986_A_617	NW_004520018.1	scaffold6185	617	GG	AA	AA	INTERGENIC			
SNP_114987_A_745	NW_004520018.1	scaffold6185	745	TT	CC	CC	INTERGENIC			
SNP_114988_A_774	NW_004520018.1	scaffold6185	774	GG	AA	AA	INTERGENIC			
SNP_114989_A_799	NW_004520018.1	scaffold6185	799	AA	GG	GG	INTERGENIC			
SNP_114990_A_846	NW_004520018.1	scaffold6185	846	CC	TT	TT	INTERGENIC			
SNP_114991_A_856	NW_004520018.1	scaffold6185	856	CC	AA	AA	INTERGENIC			
SNP_114992_A_866	NW_004520018.1	scaffold6185	866	CC	TT	TT	INTERGENIC			
SNP_114993_A_959	NW_004520018.1	scaffold6185	959	GG	AA	AA	INTERGENIC			
SNP_114994_A_989	NW_004520018.1	scaffold6185	989	TT	AA	AA	INTERGENIC			
SNP_114995_A_1021	NW_004520018.1	scaffold6185	1021	CC	AA	AA	INTERGENIC			
SNP_114996_A_1042	NW_004520018.1	scaffold6185	1042	GG	AA	AA	INTERGENIC			
SNP_114997_A_1045	NW_004520018.1	scaffold6185	1045	TT	GG	GG	INTERGENIC			
SNP_114998_A_1048	NW_004520018.1	scaffold6185	1048	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_114999_A_1055	NW_004520018.1	scaffold6185	1055	CC	TT	TT	INTERGENIC		
SNP_115000_A_1100	NW_004520018.1	scaffold6185	1100	GG	AA	AA	INTERGENIC		
SNP_115001_A_1140	NW_004520018.1	scaffold6185	1140	AA	CC	CC	INTERGENIC		
SNP_115002_A_1144	NW_004520018.1	scaffold6185	1144	TT	CC	CC	INTERGENIC		
SNP_115003_A_1194	NW_004520018.1	scaffold6185	1194	TT	AA	AA	INTERGENIC		
SNP_115004_A_1296	NW_004520018.1	scaffold6185	1296	AA	CC	CC	INTERGENIC		
SNP_115005_A_1438	NW_004520018.1	scaffold6185	1438	GG	CC	CC	INTERGENIC		
SNP_115006_A_2220	NW_004520018.1	scaffold6185	2220	GG	TT	TT	INTERGENIC		
SNP_115008_A_3058	NW_004520018.1	scaffold6185	3058	TT	CC	CC	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115009_A_3060	NW_004520018.1	scaffold6185	3060	AA	GG	GG	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115010_A_3087	NW_004520018.1	scaffold6185	3087	AA	TT	TT	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115011_A_3108	NW_004520018.1	scaffold6185	3108	CC	AA	AA	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115012_A_3139	NW_004520018.1	scaffold6185	3139	GG	AA	AA	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115013_A_3419	NW_004520018.1	scaffold6185	3419	TT	AA	AA	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115014_A_3488	NW_004520018.1	scaffold6185	3488	CC	AA	AA	DRR	101507289	GDSL esterase/lipase At5g45960-like
SNP_115015_A_3856	NW_004520018.1	scaffold6185	3856	GG	TT	TT	SYNONYMOUS_CODING	101507289	GDSL esterase/lipase At5g45960-like
SNP_115017_A_498	NW_004520019.1	scaffold6187	498	AA	TT	TT	INTERGENIC		
SNP_115018_A_531	NW_004520019.1	scaffold6187	531	TT	CC	CC	INTERGENIC		
SNP_115019_A_623	NW_004520019.1	scaffold6187	623	AA	CC	CC	INTERGENIC		
SNP_115020_A_728	NW_004520019.1	scaffold6187	728	GG	AA	AA	INTERGENIC		
SNP_115021_A_889	NW_004520019.1	scaffold6187	889	AA	GG	GG	INTERGENIC		
SNP_115022_A_1025	NW_004520019.1	scaffold6187	1025	TT	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115023_A_447	NW_004520024.1	scaffold6193	447	TT	GG	GG	INTERGENIC			
SNP_115024_A_1290	NW_004520024.1	scaffold6193	1290	AA	CC	CC	INTERGENIC			
SNP_115025_A_659	NW_004520025.1	scaffold6194	659	AA	TT	TT	INTERGENIC			
SNP_115026_A_696	NW_004520025.1	scaffold6194	696	AA	GG	GG	INTERGENIC			
SNP_115027_A_697	NW_004520025.1	scaffold6194	697	AA	CC	CC	INTERGENIC			
SNP_115028_A_561	NW_004520030.1	scaffold6199	561	TT	AA	AA	INTERGENIC			
SNP_115029_A_612	NW_004520030.1	scaffold6199	612	AA	CC	CC	INTERGENIC			
SNP_115030_A_654	NW_004520030.1	scaffold6199	654	TT	GG	GG	INTERGENIC			
SNP_115031_A_1814	NW_004520032.1	scaffold6202	1814	AA	TT	TT	INTERGENIC			
SNP_115032_A_5624	NW_004520039.1	scaffold6214	5624	CC	GG	GG	INTERGENIC			
SNP_115033_A_451	NW_004520040.1	scaffold6215	451	AA	GG	GG	INTERGENIC			
SNP_115034_A_718	NW_004520045.1	scaffold6225	718	CC	AA	AA	INTERGENIC			
SNP_115035_A_722	NW_004520045.1	scaffold6225	722	CC	GG	GG	INTERGENIC			
SNP_115036_A_726	NW_004520045.1	scaffold6225	726	TT	GG	GG	INTERGENIC			
SNP_115037_A_731	NW_004520045.1	scaffold6225	731	AA	TT	TT	INTERGENIC			
SNP_115039_A_97	NW_004520050.1	scaffold6232	97	CC	TT	TT	INTERGENIC			
SNP_115040_A_129	NW_004520050.1	scaffold6232	129	CC	TT	TT	INTERGENIC			
SNP_115041_A_141	NW_004520050.1	scaffold6232	141	TT	CC	CC	INTERGENIC			
SNP_115042_A_64	NW_004520060.1	scaffold6256	64	TT	CC	CC	INTERGENIC			
SNP_115043_A_110	NW_004520060.1	scaffold6256	110	AA	GG	GG	INTERGENIC			
SNP_115044_A_131	NW_004520060.1	scaffold6256	131	AA	CC	CC	INTERGENIC			
SNP_115045_A_239	NW_004520060.1	scaffold6256	239	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115046_A_684	NW_004520078.1	scaffold6288	684	TT	GG	GG	INTERGENIC			
SNP_115047_A_1033	NW_004520078.1	scaffold6288	1033	GG	TT	TT	INTERGENIC			
SNP_115048_A_1054	NW_004520078.1	scaffold6288	1054	TT	GG	GG	INTERGENIC			
SNP_115049_A_890	NW_004520087.1	scaffold6300	890	GG	CC	CC	INTERGENIC			
SNP_115050_A_1143	NW_004520087.1	scaffold6300	1143	AA	TT	TT	INTERGENIC			
SNP_115051_A_1240	NW_004520087.1	scaffold6300	1240	TT	CC	CC	INTERGENIC			
SNP_115052_A_1246	NW_004520087.1	scaffold6300	1246	TT	AA	AA	INTERGENIC			
SNP_115053_A_1289	NW_004520087.1	scaffold6300	1289	TT	AA	AA	INTERGENIC			
SNP_115054_A_1550	NW_004520087.1	scaffold6300	1550	TT	CC	CC	INTERGENIC			
SNP_115055_A_1884	NW_004520087.1	scaffold6300	1884	CC	TT	TT	INTERGENIC			
SNP_115057_A_2530	NW_004520087.1	scaffold6300	2530	GG	CC	CC	INTERGENIC			
SNP_115058_A_2634	NW_004520087.1	scaffold6300	2634	GG	AA	AA	INTERGENIC			
SNP_115059_A_3051	NW_004520087.1	scaffold6300	3051	AA	TT	TT	INTERGENIC			
SNP_115060_A_3270	NW_004520087.1	scaffold6300	3270	AA	TT	TT	INTERGENIC			
SNP_115061_A_3341	NW_004520087.1	scaffold6300	3341	AA	TT	TT	INTERGENIC			
SNP_115062_A_3343	NW_004520087.1	scaffold6300	3343	GG	TT	TT	INTERGENIC			
SNP_115063_A_3385	NW_004520087.1	scaffold6300	3385	AA	GG	GG	INTERGENIC			
SNP_115064_A_3429	NW_004520087.1	scaffold6300	3429	GG	CC	CC	INTERGENIC			
SNP_115065_A_3500	NW_004520087.1	scaffold6300	3500	AA	GG	GG	INTERGENIC			
SNP_115066_A_4412	NW_004520087.1	scaffold6300	4412	AA	CC	CC	INTERGENIC			
SNP_115067_A_4966	NW_004520087.1	scaffold6300	4966	AA	TT	TT	INTERGENIC			
SNP_115068_A_4984	NW_004520087.1	scaffold6300	4984	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115069_A_11044	NW_004520087.1	scaffold6300	11044	TT	GG	GG	INTERGENIC			
SNP_115070_A_11240	NW_004520087.1	scaffold6300	11240	GG	CC	CC	INTERGENIC			
SNP_115071_A_11251	NW_004520087.1	scaffold6300	11251	TT	CC	CC	INTERGENIC			
SNP_115072_A_11266	NW_004520087.1	scaffold6300	11266	GG	AA	AA	INTERGENIC			
SNP_115073_A_11334	NW_004520087.1	scaffold6300	11334	AA	GG	GG	INTERGENIC			
SNP_115074_A_303	NW_004520088.1	scaffold6301	303	CC	GG	GG	INTERGENIC			
SNP_115075_A_460	NW_004520091.1	scaffold6304	460	AA	GG	GG	INTERGENIC			
SNP_115076_A_515	NW_004520091.1	scaffold6304	515	AA	GG	GG	INTERGENIC			
SNP_115077_A_535	NW_004520093.1	scaffold6307	535	GG	AA	AA	INTERGENIC			
SNP_115078_A_706	NW_004520096.1	scaffold6314	706	CC	TT	TT	INTERGENIC			
SNP_115079_A_661	NW_004520097.1	scaffold6317	661	CC	TT	TT	INTERGENIC			
SNP_115080_A_734	NW_004520097.1	scaffold6317	734	AA	TT	TT	INTERGENIC			
SNP_115081_A_16670	NW_004520098.1	scaffold6318	16670	CC	TT	TT	INTERGENIC			
SNP_115082_A_16857	NW_004520098.1	scaffold6318	16857	GG	AA	AA	INTERGENIC			
SNP_115083_A_16960	NW_004520098.1	scaffold6318	16960	GG	TT	TT	INTERGENIC			
SNP_115084_A_17190	NW_004520098.1	scaffold6318	17190	CC	AA	AA	INTERGENIC			
SNP_115085_A_17409	NW_004520098.1	scaffold6318	17409	GG	AA	AA	INTERGENIC			
SNP_115086_A_17883	NW_004520098.1	scaffold6318	17883	TT	GG	GG	INTERGENIC			
SNP_115087_A_17888	NW_004520098.1	scaffold6318	17888	GG	AA	AA	INTERGENIC			
SNP_115088_A_791	NW_004520099.1	scaffold6321	791	AA	CC	CC	INTERGENIC			
SNP_115089_A_1017	NW_004520100.1	scaffold6322	1017	GG	CC	CC	INTERGENIC			
SNP_115090_A_4373	NW_004520100.1	scaffold6322	4373	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115091_A_4374	NW_004520100.1	scaffold6322	4374	TT	CC	CC	INTERGENIC			
SNP_115092_A_4426	NW_004520100.1	scaffold6322	4426	AA	GG	GG	INTERGENIC			
SNP_115093_A_4483	NW_004520100.1	scaffold6322	4483	AA	GG	GG	INTERGENIC			
SNP_115094_A_4485	NW_004520100.1	scaffold6322	4485	TT	AA	AA	INTERGENIC			
SNP_115095_A_579	NW_004520101.1	scaffold6324	579	GG	AA	AA	INTERGENIC			
SNP_115096_A_694	NW_004520101.1	scaffold6324	694	TT	GG	GG	INTERGENIC			
SNP_115097_A_709	NW_004520101.1	scaffold6324	709	GG	AA	AA	INTERGENIC			
SNP_115098_A_240	NW_004520104.1	scaffold6327	240	AA	CC	CC	INTERGENIC			
SNP_115099_A_242	NW_004520104.1	scaffold6327	242	AA	TT	TT	INTERGENIC			
SNP_115100_A_245	NW_004520104.1	scaffold6327	245	AA	TT	TT	INTERGENIC			
SNP_115101_A_246	NW_004520104.1	scaffold6327	246	AA	TT	TT	INTERGENIC			
SNP_115102_A_247	NW_004520104.1	scaffold6327	247	TT	GG	GG	INTERGENIC			
SNP_115103_A_439	NW_004520108.1	scaffold6332	439	CC	TT	TT	INTERGENIC			
SNP_115104_A_871	NW_004520111.1	scaffold6335	871	GG	TT	TT	INTERGENIC			
SNP_115105_A_873	NW_004520111.1	scaffold6335	873	AA	GG	GG	INTERGENIC			
SNP_115106_A_889	NW_004520111.1	scaffold6335	889	AA	GG	GG	INTERGENIC			
SNP_115107_A_919	NW_004520111.1	scaffold6335	919	TT	CC	CC	INTERGENIC			
SNP_115108_A_983	NW_004520111.1	scaffold6335	983	GG	AA	AA	INTERGENIC			
SNP_115109_A_990	NW_004520111.1	scaffold6335	990	TT	GG	GG	INTERGENIC			
SNP_115110_A_997	NW_004520111.1	scaffold6335	997	AA	GG	GG	INTERGENIC			
SNP_115111_A_2421	NW_004520114.1	scaffold6343	2421	CC	TT	TT	INTERGENIC			
SNP_115112_A_32215	NW_004520126.1	scaffold6367	32215	TT	CC	CC	URR	101509837	probable disease resistance protein At1g52660	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_115113_A_32228	NW_004520126.1	scaffold6367	32228	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115114_A_32239	NW_004520126.1	scaffold6367	32239	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115115_A_32367	NW_004520126.1	scaffold6367	32367	AA	GG	GG	URR	101509837	probable disease resistance protein At1g52660
SNP_115116_A_32385	NW_004520126.1	scaffold6367	32385	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115117_A_32411	NW_004520126.1	scaffold6367	32411	CC	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115118_A_32462	NW_004520126.1	scaffold6367	32462	AA	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115119_A_32465	NW_004520126.1	scaffold6367	32465	CC	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115120_A_32467	NW_004520126.1	scaffold6367	32467	TT	CC	CC	URR	101509837	probable disease resistance protein At1g52660
SNP_115121_A_32469	NW_004520126.1	scaffold6367	32469	AA	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115122_A_32501	NW_004520126.1	scaffold6367	32501	GG	CC	CC	URR	101509837	probable disease resistance protein At1g52660
SNP_115123_A_32553	NW_004520126.1	scaffold6367	32553	TT	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115124_A_32630	NW_004520126.1	scaffold6367	32630	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115125_A_32651	NW_004520126.1	scaffold6367	32651	AA	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115126_A_32653	NW_004520126.1	scaffold6367	32653	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115127_A_32727	NW_004520126.1	scaffold6367	32727	AA	GG	GG	URR	101509837	probable disease resistance protein At1g52660
SNP_115128_A_32731	NW_004520126.1	scaffold6367	32731	CC	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115129_A_32733	NW_004520126.1	scaffold6367	32733	GG	AA	AA	URR	101509837	probable disease resistance protein At1g52660
SNP_115130_A_32831	NW_004520126.1	scaffold6367	32831	AA	GG	GG	URR	101509837	probable disease resistance protein At1g52660
SNP_115131_A_32856	NW_004520126.1	scaffold6367	32856	CC	GG	GG	URR	101509837	probable disease resistance protein At1g52660
SNP_115132_A_32902	NW_004520126.1	scaffold6367	32902	TT	GG	GG	URR	101509837	probable disease resistance protein At1g52660
SNP_115133_A_32966	NW_004520126.1	scaffold6367	32966	CC	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115134_A_32985	NW_004520126.1	scaffold6367	32985	AA	GG	GG	URR	101509837	probable disease resistance protein At1g52660

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_115135_A_33029	NW_004520126.1	scaffold6367	33029	GG	TT	TT	URR	101509837	probable disease resistance protein At1g52660
SNP_115136_A_33053	NW_004520126.1	scaffold6367	33053	GG	AA	AA	INTERGENIC		
SNP_115137_A_33068	NW_004520126.1	scaffold6367	33068	TT	CC	CC	INTERGENIC		
SNP_115138_A_33175	NW_004520126.1	scaffold6367	33175	CC	TT	TT	INTERGENIC		
SNP_115139_A_33179	NW_004520126.1	scaffold6367	33179	GG	AA	AA	INTERGENIC		
SNP_115140_A_33186	NW_004520126.1	scaffold6367	33186	GG	AA	AA	INTERGENIC		
SNP_115141_A_817	NW_004520129.1	scaffold6375	817	AA	GG	GG	INTERGENIC		
SNP_115142_A_900	NW_004520129.1	scaffold6375	900	AA	TT	TT	INTERGENIC		
SNP_115143_A_155	NW_004520130.1	scaffold6376	155	TT	CC	CC	INTERGENIC		
SNP_115144_A_531	NW_004520130.1	scaffold6376	531	TT	CC	CC	INTERGENIC		
SNP_115145_A_579	NW_004520130.1	scaffold6376	579	AA	CC	CC	INTERGENIC		
SNP_115146_A_1220	NW_004520130.1	scaffold6376	1220	AA	GG	GG	INTERGENIC		
SNP_115147_A_2972	NW_004520131.1	scaffold6377	2972	GG	AA	AA	INTERGENIC		
SNP_115148_A_3050	NW_004520131.1	scaffold6377	3050	TT	CC	CC	INTERGENIC		
SNP_115149_A_1295	NW_004520134.1	scaffold6382	1295	AA	TT	TT	INTERGENIC		
SNP_115151_A_3124	NW_004520136.1	scaffold6391	3124	AA	GG	GG	INTERGENIC		
SNP_115152_A_3220	NW_004520136.1	scaffold6391	3220	AA	TT	TT	INTERGENIC		
SNP_115153_A_1201	NW_004520138.1	scaffold6394	1201	AA	GG	GG	INTERGENIC		
SNP_115154_A_18295	NW_004520138.1	scaffold6394	18295	GG	AA	AA	INTERGENIC		
SNP_115155_A_18299	NW_004520138.1	scaffold6394	18299	AA	CC	CC	INTERGENIC		
SNP_115157_A_184	NW_004520144.1	scaffold6403	184	AA	GG	GG	INTERGENIC		
SNP_115158_A_512	NW_004520144.1	scaffold6403	512	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115159_A_526	NW_004520144.1	scaffold6403	526	CC	AA	AA	INTERGENIC			
SNP_115160_A_535	NW_004520144.1	scaffold6403	535	AA	GG	GG	INTERGENIC			
SNP_115161_A_1314	NW_004520145.1	scaffold6404	1314	CC	AA	AA	INTERGENIC			
SNP_115162_A_1558	NW_004520145.1	scaffold6404	1558	TT	AA	AA	INTERGENIC			
SNP_115163_A_1837	NW_004520145.1	scaffold6404	1837	AA	TT	TT	INTERGENIC			
SNP_115164_A_2060	NW_004520145.1	scaffold6404	2060	AA	TT	TT	INTERGENIC			
SNP_115165_A_2245	NW_004520145.1	scaffold6404	2245	AA	CC	CC	INTERGENIC			
SNP_115166_A_2285	NW_004520145.1	scaffold6404	2285	GG	AA	AA	INTERGENIC			
SNP_115167_A_1917	NW_004520148.1	scaffold6410	1917	CC	TT	TT	INTERGENIC			
SNP_115168_A_1944	NW_004520148.1	scaffold6410	1944	GG	AA	AA	INTERGENIC			
SNP_115169_A_1949	NW_004520148.1	scaffold6410	1949	TT	AA	AA	INTERGENIC			
SNP_115170_A_2142	NW_004520148.1	scaffold6410	2142	AA	TT	TT	INTERGENIC			
SNP_115171_A_2160	NW_004520148.1	scaffold6410	2160	GG	AA	AA	INTERGENIC			
SNP_115172_A_2169	NW_004520148.1	scaffold6410	2169	TT	AA	AA	INTERGENIC			
SNP_115173_A_2203	NW_004520148.1	scaffold6410	2203	TT	CC	CC	INTERGENIC			
SNP_115174_A_3806	NW_004520148.1	scaffold6410	3806	TT	AA	AA	INTERGENIC			
SNP_115175_A_3832	NW_004520148.1	scaffold6410	3832	TT	CC	CC	INTERGENIC			
SNP_115176_A_3889	NW_004520148.1	scaffold6410	3889	AA	GG	GG	INTERGENIC			
SNP_115177_A_3910	NW_004520148.1	scaffold6410	3910	CC	TT	TT	INTERGENIC			
SNP_115178_A_3919	NW_004520148.1	scaffold6410	3919	TT	GG	GG	INTERGENIC			
SNP_115179_A_3975	NW_004520148.1	scaffold6410	3975	GG	AA	AA	INTERGENIC			
SNP_115180_A_3976	NW_004520148.1	scaffold6410	3976	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115181_A_3990	NW_004520148.1	scaffold6410	3990	TT	GG	GG	INTERGENIC			
SNP_115182_A_3999	NW_004520148.1	scaffold6410	3999	GG	TT	TT	INTERGENIC			
SNP_115183_A_4018	NW_004520148.1	scaffold6410	4018	CC	GG	GG	INTERGENIC			
SNP_115184_A_4028	NW_004520148.1	scaffold6410	4028	GG	AA	AA	INTERGENIC			
SNP_115185_A_4069	NW_004520148.1	scaffold6410	4069	GG	AA	AA	INTERGENIC			
SNP_115186_A_4135	NW_004520148.1	scaffold6410	4135	TT	AA	AA	INTERGENIC			
SNP_115187_A_4146	NW_004520148.1	scaffold6410	4146	GG	CC	CC	INTERGENIC			
SNP_115188_A_4198	NW_004520148.1	scaffold6410	4198	AA	TT	TT	INTERGENIC			
SNP_115189_A_4236	NW_004520148.1	scaffold6410	4236	CC	TT	TT	INTERGENIC			
SNP_115190_A_4340	NW_004520148.1	scaffold6410	4340	AA	GG	GG	INTERGENIC			
SNP_115191_A_680	NW_004520151.1	scaffold6414	680	TT	CC	CC	INTERGENIC			
SNP_115192_A_244	NW_004520157.1	scaffold6429	244	AA	GG	GG	INTERGENIC			
SNP_115193_A_361	NW_004520157.1	scaffold6429	361	GG	TT	TT	INTERGENIC			
SNP_115194_A_670	NW_004520157.1	scaffold6429	670	GG	CC	CC	INTERGENIC			
SNP_115195_A_4267	NW_004520157.1	scaffold6429	4267	AA	TT	TT	INTERGENIC			
SNP_115196_A_4281	NW_004520157.1	scaffold6429	4281	AA	GG	GG	INTERGENIC			
SNP_115198_A_5730	NW_004520157.1	scaffold6429	5730	CC	TT	TT	INTERGENIC			
SNP_115199_A_5822	NW_004520157.1	scaffold6429	5822	TT	AA	AA	INTERGENIC			
SNP_115200_A_550	NW_004520159.1	scaffold6432	550	GG	AA	AA	INTERGENIC			
SNP_115201_A_3188	NW_004520159.1	scaffold6432	3188	GG	AA	AA	INTERGENIC			
SNP_115202_A_3406	NW_004520159.1	scaffold6432	3406	CC	AA	AA	INTERGENIC			
SNP_115203_A_3413	NW_004520159.1	scaffold6432	3413	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115204_A_3532	NW_004520159.1	scaffold6432	3532	GG	TT	TT	INTERGENIC			
SNP_115205_A_3582	NW_004520159.1	scaffold6432	3582	CC	TT	TT	INTERGENIC			
SNP_115206_A_3592	NW_004520159.1	scaffold6432	3592	AA	TT	TT	INTERGENIC			
SNP_115207_A_406	NW_004520164.1	scaffold6437	406	TT	GG	GG	INTERGENIC			
SNP_115208_A_483	NW_004520164.1	scaffold6437	483	GG	AA	AA	INTERGENIC			
SNP_115209_A_560	NW_004520164.1	scaffold6437	560	AA	GG	GG	INTERGENIC			
SNP_115210_A_643	NW_004520164.1	scaffold6437	643	AA	TT	TT	INTERGENIC			
SNP_115211_A_931	NW_004520166.1	scaffold6440	931	TT	CC	CC	INTERGENIC			
SNP_115212_A_365	NW_004520171.1	scaffold6449	365	AA	CC	CC	INTERGENIC			
SNP_115213_A_377	NW_004520171.1	scaffold6449	377	AA	TT	TT	INTERGENIC			
SNP_115214_A_449	NW_004520172.1	scaffold6451	449	AA	GG	GG	INTERGENIC			
SNP_115215_A_2451	NW_004520174.1	scaffold6456	2451	CC	TT	TT	INTERGENIC			
SNP_115216_A_2455	NW_004520174.1	scaffold6456	2455	TT	AA	AA	INTERGENIC			
SNP_115217_A_2618	NW_004520174.1	scaffold6456	2618	TT	CC	CC	INTERGENIC			
SNP_115218_A_7952	NW_004520175.1	scaffold6458	7952	CC	TT	TT	INTERGENIC			
SNP_115219_A_8277	NW_004520175.1	scaffold6458	8277	AA	GG	GG	INTERGENIC			
SNP_115220_A_8297	NW_004520175.1	scaffold6458	8297	AA	CC	CC	INTERGENIC			
SNP_115221_A_14289	NW_004520175.1	scaffold6458	14289	GG	AA	AA	INTERGENIC			
SNP_115222_A_14295	NW_004520175.1	scaffold6458	14295	GG	CC	CC	INTERGENIC			
SNP_115223_A_17609	NW_004520175.1	scaffold6458	17609	AA	GG	GG	INTERGENIC			
SNP_115224_A_17618	NW_004520175.1	scaffold6458	17618	AA	GG	GG	INTERGENIC			
SNP_115225_A_21808	NW_004520175.1	scaffold6458	21808	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115227_A_1083	NW_004520181.1	scaffold6469	1083	GG	CC	CC	INTERGENIC			
SNP_115228_A_443	NW_004520185.1	scaffold6478	443	TT	GG	GG	INTERGENIC			
SNP_115229_A_954	NW_004520185.1	scaffold6478	954	TT	CC	CC	INTERGENIC			
SNP_115230_A_994	NW_004520185.1	scaffold6478	994	GG	TT	TT	INTERGENIC			
SNP_115231_A_1167	NW_004520185.1	scaffold6478	1167	AA	TT	TT	INTERGENIC			
SNP_115232_A_1263	NW_004520185.1	scaffold6478	1263	AA	GG	GG	INTERGENIC			
SNP_115233_A_1293	NW_004520185.1	scaffold6478	1293	AA	GG	GG	INTERGENIC			
SNP_115234_A_22006	NW_004520185.1	scaffold6478	22006	AA	GG	GG	INTERGENIC			
SNP_115235_A_64	NW_004520187.1	scaffold6480	64	TT	CC	CC	INTERGENIC			
SNP_115236_A_122	NW_004520187.1	scaffold6480	122	GG	AA	AA	INTERGENIC			
SNP_115237_A_143	NW_004520187.1	scaffold6480	143	CC	GG	GG	INTERGENIC			
SNP_115238_A_158	NW_004520187.1	scaffold6480	158	AA	GG	GG	INTERGENIC			
SNP_115239_A_160	NW_004520187.1	scaffold6480	160	AA	GG	GG	INTERGENIC			
SNP_115240_A_299	NW_004520187.1	scaffold6480	299	CC	TT	TT	INTERGENIC			
SNP_115242_A_436	NW_004520187.1	scaffold6480	436	TT	CC	CC	INTERGENIC			
SNP_115243_A_444	NW_004520187.1	scaffold6480	444	AA	TT	TT	INTERGENIC			
SNP_115244_A_446	NW_004520187.1	scaffold6480	446	GG	AA	AA	INTERGENIC			
SNP_115246_A_569	NW_004520187.1	scaffold6480	569	CC	TT	TT	INTERGENIC			
SNP_115247_A_585	NW_004520187.1	scaffold6480	585	AA	TT	TT	INTERGENIC			
SNP_115248_A_607	NW_004520187.1	scaffold6480	607	GG	AA	AA	INTERGENIC			
SNP_115249_A_638	NW_004520187.1	scaffold6480	638	AA	TT	TT	INTERGENIC			
SNP_115251_A_751	NW_004520187.1	scaffold6480	751	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115252_A_878	NW_004520187.1	scaffold6480	878	GG	CC	CC	INTERGENIC			
SNP_115253_A_967	NW_004520187.1	scaffold6480	967	CC	TT	TT	INTERGENIC			
SNP_115254_A_993	NW_004520187.1	scaffold6480	993	GG	AA	AA	INTERGENIC			
SNP_115255_A_1013	NW_004520187.1	scaffold6480	1013	TT	CC	CC	INTERGENIC			
SNP_115256_A_1144	NW_004520187.1	scaffold6480	1144	TT	CC	CC	INTERGENIC			
SNP_115257_A_1185	NW_004520187.1	scaffold6480	1185	TT	CC	CC	INTERGENIC			
SNP_115258_A_1217	NW_004520187.1	scaffold6480	1217	AA	GG	GG	INTERGENIC			
SNP_115259_A_1218	NW_004520187.1	scaffold6480	1218	AA	GG	GG	INTERGENIC			
SNP_115260_A_791	NW_004520188.1	scaffold6483	791	CC	TT	TT	INTERGENIC			
SNP_115261_A_1337	NW_004520192.1	scaffold6489	1337	AA	GG	GG	INTERGENIC			
SNP_115263_A_1441	NW_004520192.1	scaffold6489	1441	GG	AA	AA	INTERGENIC			
SNP_115264_A_1725	NW_004520194.1	scaffold6491	1725	TT	AA	AA	INTERGENIC			
SNP_115265_A_412	NW_004520195.1	scaffold6492	412	CC	TT	TT	INTERGENIC			
SNP_115266_A_815	NW_004520195.1	scaffold6492	815	CC	TT	TT	INTERGENIC			
SNP_115267_A_848	NW_004520195.1	scaffold6492	848	GG	TT	TT	INTERGENIC			
SNP_115268_A_4322	NW_004520196.1	scaffold6493	4322	GG	AA	AA	INTERGENIC			
SNP_115269_A_4936	NW_004520196.1	scaffold6493	4936	AA	GG	GG	INTERGENIC			
SNP_115270_A_6009	NW_004520196.1	scaffold6493	6009	GG	CC	CC	INTERGENIC			
SNP_115271_A_1577	NW_004520197.1	scaffold6494	1577	AA	GG	GG	INTERGENIC			
SNP_115272_A_94	NW_004520199.1	scaffold6496	94	AA	GG	GG	INTERGENIC			
SNP_115273_A_98	NW_004520199.1	scaffold6496	98	CC	TT	TT	INTERGENIC			
SNP_115274_A_162	NW_004520199.1	scaffold6496	162	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115275_A_174	NW_004520199.1	scaffold6496	174	AA	GG	GG	INTERGENIC			
SNP_115276_A_763	NW_004520199.1	scaffold6496	763	TT	CC	CC	INTERGENIC			
SNP_115277_A_816	NW_004520199.1	scaffold6496	816	CC	TT	TT	INTERGENIC			
SNP_115279_A_932	NW_004520199.1	scaffold6496	932	AA	GG	GG	INTERGENIC			
SNP_115280_A_955	NW_004520199.1	scaffold6496	955	GG	TT	TT	INTERGENIC			
SNP_115281_A_959	NW_004520199.1	scaffold6496	959	CC	GG	GG	INTERGENIC			
SNP_115282_A_972	NW_004520199.1	scaffold6496	972	CC	TT	TT	INTERGENIC			
SNP_115283_A_978	NW_004520199.1	scaffold6496	978	CC	TT	TT	INTERGENIC			
SNP_115284_A_990	NW_004520199.1	scaffold6496	990	GG	AA	AA	INTERGENIC			
SNP_115285_A_1014	NW_004520199.1	scaffold6496	1014	GG	AA	AA	INTERGENIC			
SNP_115286_A_1029	NW_004520199.1	scaffold6496	1029	CC	GG	GG	INTERGENIC			
SNP_115287_A_1044	NW_004520199.1	scaffold6496	1044	TT	AA	AA	INTERGENIC			
SNP_115288_A_1165	NW_004520199.1	scaffold6496	1165	TT	AA	AA	INTERGENIC			
SNP_115290_A_545	NW_004520200.1	scaffold6497	545	GG	AA	AA	INTERGENIC			
SNP_115291_A_993	NW_004520200.1	scaffold6497	993	CC	GG	GG	INTERGENIC			
SNP_115292_A_1070	NW_004520201.1	scaffold6498	1070	AA	GG	GG	INTERGENIC			
SNP_115293_A_1082	NW_004520201.1	scaffold6498	1082	CC	TT	TT	INTERGENIC			
SNP_115294_A_1083	NW_004520201.1	scaffold6498	1083	CC	AA	AA	INTERGENIC			
SNP_115295_A_1132	NW_004520201.1	scaffold6498	1132	GG	AA	AA	INTERGENIC			
SNP_115296_A_1185	NW_004520201.1	scaffold6498	1185	CC	GG	GG	INTERGENIC			
SNP_115297_A_1397	NW_004520201.1	scaffold6498	1397	AA	GG	GG	INTERGENIC			
SNP_115298_A_1414	NW_004520201.1	scaffold6498	1414	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115299_A_1449	NW_004520201.1	scaffold6498	1449	GG	CC	CC	INTERGENIC			
SNP_115300_A_122	NW_004520204.1	scaffold6505	122	GG	AA	AA	INTERGENIC			
SNP_115301_A_246	NW_004520204.1	scaffold6505	246	AA	TT	TT	INTERGENIC			
SNP_115302_A_342	NW_004520204.1	scaffold6505	342	CC	GG	GG	INTERGENIC			
SNP_115303_A_435	NW_004520204.1	scaffold6505	435	CC	GG	GG	INTERGENIC			
SNP_115304_A_833	NW_004520212.1	scaffold6521	833	TT	GG	GG	INTERGENIC			
SNP_115305_A_744	NW_004520213.1	scaffold6522	744	CC	AA	AA	INTERGENIC			
SNP_115306_A_753	NW_004520213.1	scaffold6522	753	CC	TT	TT	INTERGENIC			
SNP_115307_A_305	NW_004520214.1	scaffold6525	305	CC	GG	GG	INTERGENIC			
SNP_115308_A_461	NW_004520214.1	scaffold6525	461	TT	CC	CC	INTERGENIC			
SNP_115309_A_945	NW_004520214.1	scaffold6525	945	CC	AA	AA	INTERGENIC			
SNP_115310_A_1822	NW_004520214.1	scaffold6525	1822	TT	CC	CC	INTERGENIC			
SNP_115311_A_458	NW_004520215.1	scaffold6527	458	AA	GG	GG	INTERGENIC			
SNP_115312_A_680	NW_004520215.1	scaffold6527	680	GG	TT	TT	INTERGENIC			
SNP_115313_A_524	NW_004520221.1	scaffold6537	524	AA	CC	CC	INTERGENIC			
SNP_115314_A_532	NW_004520221.1	scaffold6537	532	TT	GG	GG	INTERGENIC			
SNP_115315_A_595	NW_004520221.1	scaffold6537	595	AA	GG	GG	INTERGENIC			
SNP_115316_A_1264	NW_004520221.1	scaffold6537	1264	GG	CC	CC	INTERGENIC			
SNP_115317_A_1319	NW_004520221.1	scaffold6537	1319	TT	GG	GG	INTERGENIC			
SNP_115318_A_1388	NW_004520221.1	scaffold6537	1388	TT	GG	GG	INTERGENIC			
SNP_115319_A_1417	NW_004520221.1	scaffold6537	1417	TT	AA	AA	INTERGENIC			
SNP_115320_A_1608	NW_004520221.1	scaffold6537	1608	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115321_A_1681	NW_004520221.1	scaffold6537	1681	AA	GG	GG	INTERGENIC			
SNP_115322_A_1741	NW_004520221.1	scaffold6537	1741	GG	TT	TT	INTERGENIC			
SNP_115323_A_1879	NW_004520221.1	scaffold6537	1879	GG	AA	AA	INTERGENIC			
SNP_115324_A_2058	NW_004520221.1	scaffold6537	2058	AA	GG	GG	INTERGENIC			
SNP_115325_A_2087	NW_004520221.1	scaffold6537	2087	AA	GG	GG	INTERGENIC			
SNP_115326_A_2161	NW_004520221.1	scaffold6537	2161	TT	GG	GG	INTERGENIC			
SNP_115327_A_2221	NW_004520221.1	scaffold6537	2221	TT	CC	CC	INTERGENIC			
SNP_115328_A_2250	NW_004520221.1	scaffold6537	2250	TT	GG	GG	INTERGENIC			
SNP_115329_A_2355	NW_004520221.1	scaffold6537	2355	CC	GG	GG	INTERGENIC			
SNP_115330_A_2501	NW_004520221.1	scaffold6537	2501	CC	AA	AA	INTERGENIC			
SNP_115331_A_2538	NW_004520221.1	scaffold6537	2538	CC	GG	GG	INTERGENIC			
SNP_115332_A_2635	NW_004520221.1	scaffold6537	2635	GG	AA	AA	INTERGENIC			
SNP_115333_A_2753	NW_004520221.1	scaffold6537	2753	AA	GG	GG	INTERGENIC			
SNP_115334_A_2755	NW_004520221.1	scaffold6537	2755	CC	AA	AA	INTERGENIC			
SNP_115335_A_2756	NW_004520221.1	scaffold6537	2756	CC	AA	AA	INTERGENIC			
SNP_115336_A_2758	NW_004520221.1	scaffold6537	2758	CC	TT	TT	INTERGENIC			
SNP_115337_A_2853	NW_004520221.1	scaffold6537	2853	CC	TT	TT	INTERGENIC			
SNP_115338_A_2875	NW_004520221.1	scaffold6537	2875	TT	CC	AA	INTERGENIC			
SNP_115339_A_2921	NW_004520221.1	scaffold6537	2921	CC	GG	GG	INTERGENIC			
SNP_115340_A_3002	NW_004520221.1	scaffold6537	3002	GG	AA	AA	INTERGENIC			
SNP_115341_A_817	NW_004520224.1	scaffold6540	817	GG	CC	CC	INTERGENIC			
SNP_115342_A_935	NW_004520224.1	scaffold6540	935	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115343_A_1216	NW_004520224.1	scaffold6540	1216	AA	GG	GG	INTERGENIC			
SNP_115344_A_1248	NW_004520224.1	scaffold6540	1248	TT	CC	CC	INTERGENIC			
SNP_115345_A_691	NW_004520226.1	scaffold6543	691	TT	GG	GG	INTERGENIC			
SNP_115346_A_2251	NW_004520228.1	scaffold6546	2251	CC	TT	TT	INTERGENIC			
SNP_115347_A_3247	NW_004520228.1	scaffold6546	3247	CC	TT	TT	INTERGENIC			
SNP_115348_A_3573	NW_004520228.1	scaffold6546	3573	GG	AA	AA	INTERGENIC			
SNP_115349_A_7604	NW_004520228.1	scaffold6546	7604	CC	GG	GG	INTERGENIC			
SNP_115350_A_7792	NW_004520228.1	scaffold6546	7792	AA	GG	GG	INTERGENIC			
SNP_115351_A_7866	NW_004520228.1	scaffold6546	7866	TT	GG	GG	INTERGENIC			
SNP_115352_A_8006	NW_004520228.1	scaffold6546	8006	GG	AA	AA	INTERGENIC			
SNP_115353_A_8081	NW_004520228.1	scaffold6546	8081	AA	CC	CC	INTERGENIC			
SNP_115354_A_8145	NW_004520228.1	scaffold6546	8145	GG	TT	TT	INTERGENIC			
SNP_115356_A_308	NW_004520236.1	scaffold6561	308	CC	GG	GG	INTERGENIC			
SNP_115357_A_560	NW_004520236.1	scaffold6561	560	AA	GG	GG	INTERGENIC			
SNP_115358_A_599	NW_004520236.1	scaffold6561	599	TT	GG	GG	INTERGENIC			
SNP_115359_A_602	NW_004520236.1	scaffold6561	602	AA	GG	GG	INTERGENIC			
SNP_115360_A_810	NW_004520236.1	scaffold6561	810	TT	GG	GG	INTERGENIC			
SNP_115361_A_827	NW_004520236.1	scaffold6561	827	GG	TT	TT	INTERGENIC			
SNP_115362_A_843	NW_004520236.1	scaffold6561	843	AA	TT	TT	INTERGENIC			
SNP_115363_A_846	NW_004520236.1	scaffold6561	846	AA	GG	GG	INTERGENIC			
SNP_115364_A_860	NW_004520236.1	scaffold6561	860	TT	GG	GG	INTERGENIC			
SNP_115365_A_879	NW_004520236.1	scaffold6561	879	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_115366_A_925	NW_004520236.1	scaffold6561	925	TT	AA	AA	INTERGENIC		
SNP_115367_A_927	NW_004520236.1	scaffold6561	927	AA	TT	TT	INTERGENIC		
SNP_115368_A_1128	NW_004520236.1	scaffold6561	1128	TT	GG	GG	INTERGENIC		
SNP_115369_A_1285	NW_004520236.1	scaffold6561	1285	AA	GG	GG	INTERGENIC		
SNP_115370_A_1581	NW_004520236.1	scaffold6561	1581	GG	AA	AA	INTERGENIC		
SNP_115371_A_1638	NW_004520236.1	scaffold6561	1638	CC	GG	GG	INTERGENIC		
SNP_115372_A_220	NW_004520240.1	scaffold6566	220	GG	AA	AA	INTERGENIC		
SNP_115373_A_221	NW_004520240.1	scaffold6566	221	GG	TT	TT	INTERGENIC		
SNP_115374_A_580	NW_004520240.1	scaffold6566	580	CC	TT	TT	INTERGENIC		
SNP_115375_A_596	NW_004520240.1	scaffold6566	596	TT	CC	CC	INTERGENIC		
SNP_115376_A_611	NW_004520240.1	scaffold6566	611	TT	CC	CC	INTERGENIC		
SNP_115378_A_911	NW_004520241.1	scaffold6568	911	GG	CC	CC	INTERGENIC		
SNP_115379_A_1130	NW_004520241.1	scaffold6568	1130	TT	CC	CC	INTERGENIC		
SNP_115380_A_1782	NW_004520241.1	scaffold6568	1782	CC	AA	AA	INTERGENIC		
SNP_115381_A_1824	NW_004520241.1	scaffold6568	1824	CC	TT	TT	INTERGENIC		
SNP_115382_A_2033	NW_004520241.1	scaffold6568	2033	GG	AA	AA	INTERGENIC		
SNP_115383_A_2500	NW_004520241.1	scaffold6568	2500	CC	TT	TT	INTERGENIC		
SNP_115384_A_1224	NW_004520242.1	scaffold6569	1224	AA	GG	GG	NON_SYNONYMOUS_CODING	101512407	ribonuclease S-1-like
SNP_115385_A_1380	NW_004520242.1	scaffold6569	1380	CC	TT	TT	NON_SYNONYMOUS_CODING	101512407	ribonuclease S-1-like
SNP_115386_A_1540	NW_004520242.1	scaffold6569	1540	TT	CC	CC	SYNONYMOUS_CODING	101512407	ribonuclease S-1-like
SNP_115387_A_860	NW_004520245.1	scaffold6572	860	AA	CC	CC	INTERGENIC		
SNP_115388_A_944	NW_004520245.1	scaffold6572	944	AA	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115389_A_1036	NW_004520245.1	scaffold6572	1036	GG	AA	AA	INTERGENIC			
SNP_115390_A_1243	NW_004520245.1	scaffold6572	1243	TT	CC	CC	INTERGENIC			
SNP_115391_A_1398	NW_004520245.1	scaffold6572	1398	GG	AA	AA	INTERGENIC			
SNP_115392_A_1432	NW_004520245.1	scaffold6572	1432	AA	CC	CC	INTERGENIC			
SNP_115393_A_1469	NW_004520245.1	scaffold6572	1469	CC	TT	TT	INTERGENIC			
SNP_115394_A_1481	NW_004520245.1	scaffold6572	1481	CC	AA	AA	INTERGENIC			
SNP_115395_A_1482	NW_004520245.1	scaffold6572	1482	AA	GG	GG	INTERGENIC			
SNP_115396_A_1582	NW_004520245.1	scaffold6572	1582	GG	AA	AA	INTERGENIC			
SNP_115397_A_1583	NW_004520245.1	scaffold6572	1583	GG	AA	AA	INTERGENIC			
SNP_115398_A_1641	NW_004520245.1	scaffold6572	1641	TT	CC	CC	INTERGENIC			
SNP_115399_A_1795	NW_004520245.1	scaffold6572	1795	CC	TT	TT	INTERGENIC			
SNP_115400_A_1807	NW_004520245.1	scaffold6572	1807	TT	CC	CC	INTERGENIC			
SNP_115401_A_1867	NW_004520245.1	scaffold6572	1867	AA	GG	GG	INTERGENIC			
SNP_115402_A_1953	NW_004520245.1	scaffold6572	1953	GG	AA	AA	INTERGENIC			
SNP_115403_A_2035	NW_004520245.1	scaffold6572	2035	CC	TT	TT	INTERGENIC			
SNP_115404_A_2068	NW_004520245.1	scaffold6572	2068	AA	GG	GG	INTERGENIC			
SNP_115405_A_2108	NW_004520245.1	scaffold6572	2108	CC	TT	TT	INTERGENIC			
SNP_115406_A_2211	NW_004520245.1	scaffold6572	2211	CC	TT	TT	INTERGENIC			
SNP_115407_A_2282	NW_004520245.1	scaffold6572	2282	TT	CC	CC	INTERGENIC			
SNP_115408_A_2342	NW_004520245.1	scaffold6572	2342	CC	TT	TT	INTERGENIC			
SNP_115409_A_2378	NW_004520245.1	scaffold6572	2378	GG	AA	AA	INTERGENIC			
SNP_115410_A_3100	NW_004520245.1	scaffold6572	3100	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115411_A_3729	NW_004520245.1	scaffold6572	3729	GG	AA	AA	INTERGENIC			
SNP_115412_A_3760	NW_004520245.1	scaffold6572	3760	AA	TT	TT	INTERGENIC			
SNP_115413_A_3772	NW_004520245.1	scaffold6572	3772	GG	AA	AA	INTERGENIC			
SNP_115414_A_3988	NW_004520245.1	scaffold6572	3988	GG	TT	TT	INTERGENIC			
SNP_115415_A_4082	NW_004520245.1	scaffold6572	4082	CC	TT	TT	INTERGENIC			
SNP_115416_A_4104	NW_004520245.1	scaffold6572	4104	GG	TT	TT	INTERGENIC			
SNP_115417_A_4387	NW_004520245.1	scaffold6572	4387	GG	AA	AA	INTERGENIC			
SNP_115418_A_4396	NW_004520245.1	scaffold6572	4396	AA	CC	CC	INTERGENIC			
SNP_115419_A_4403	NW_004520245.1	scaffold6572	4403	TT	CC	CC	INTERGENIC			
SNP_115420_A_5038	NW_004520245.1	scaffold6572	5038	TT	CC	CC	INTERGENIC			
SNP_115421_A_5045	NW_004520245.1	scaffold6572	5045	TT	CC	CC	INTERGENIC			
SNP_115422_A_5119	NW_004520245.1	scaffold6572	5119	CC	TT	TT	INTERGENIC			
SNP_115423_A_5184	NW_004520245.1	scaffold6572	5184	CC	GG	GG	INTERGENIC			
SNP_115424_A_5337	NW_004520245.1	scaffold6572	5337	CC	TT	TT	INTERGENIC			
SNP_115425_A_5359	NW_004520245.1	scaffold6572	5359	GG	AA	AA	INTERGENIC			
SNP_115426_A_5366	NW_004520245.1	scaffold6572	5366	AA	TT	TT	INTERGENIC			
SNP_115427_A_5559	NW_004520245.1	scaffold6572	5559	AA	GG	GG	INTERGENIC			
SNP_115428_A_5571	NW_004520245.1	scaffold6572	5571	AA	GG	GG	INTERGENIC			
SNP_115429_A_5626	NW_004520245.1	scaffold6572	5626	GG	AA	AA	INTERGENIC			
SNP_115430_A_5926	NW_004520245.1	scaffold6572	5926	AA	CC	CC	INTERGENIC			
SNP_115431_A_619	NW_004520252.1	scaffold6581	619	TT	AA	AA	INTERGENIC			
SNP_115432_A_423	NW_004520253.1	scaffold6582	423	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115433_A_457	NW_004520253.1	scaffold6582	457	CC	TT	TT	INTERGENIC			
SNP_115434_A_752	NW_004520258.1	scaffold6590	752	TT	GG	GG	INTERGENIC			
SNP_115435_A_818	NW_004520258.1	scaffold6590	818	TT	CC	CC	INTERGENIC			
SNP_115436_A_830	NW_004520258.1	scaffold6590	830	TT	GG	GG	INTERGENIC			
SNP_115437_A_914	NW_004520258.1	scaffold6590	914	CC	TT	TT	INTERGENIC			
SNP_115438_A_915	NW_004520258.1	scaffold6590	915	CC	TT	TT	INTERGENIC			
SNP_115439_A_926	NW_004520258.1	scaffold6590	926	AA	CC	CC	INTERGENIC			
SNP_115440_A_1024	NW_004520258.1	scaffold6590	1024	AA	TT	TT	INTERGENIC			
SNP_115441_A_1084	NW_004520258.1	scaffold6590	1084	CC	TT	TT	INTERGENIC			
SNP_115442_A_1342	NW_004520258.1	scaffold6590	1342	TT	AA	AA	INTERGENIC			
SNP_115443_A_1596	NW_004520258.1	scaffold6590	1596	AA	GG	GG	INTERGENIC			
SNP_115444_A_611	NW_004520261.1	scaffold6594	611	AA	CC	CC	INTERGENIC			
SNP_115445_A_685	NW_004520261.1	scaffold6594	685	AA	GG	GG	INTERGENIC			
SNP_115446_A_742	NW_004520261.1	scaffold6594	742	GG	TT	TT	INTERGENIC			
SNP_115447_A_760	NW_004520261.1	scaffold6594	760	GG	AA	AA	INTERGENIC			
SNP_115448_A_761	NW_004520261.1	scaffold6594	761	AA	CC	CC	INTERGENIC			
SNP_115449_A_763	NW_004520261.1	scaffold6594	763	AA	GG	GG	INTERGENIC			
SNP_115450_A_964	NW_004520261.1	scaffold6594	964	CC	TT	TT	INTERGENIC			
SNP_115451_A_1045	NW_004520261.1	scaffold6594	1045	GG	TT	TT	INTERGENIC			
SNP_115452_A_1134	NW_004520261.1	scaffold6594	1134	TT	AA	AA	INTERGENIC			
SNP_115453_A_1149	NW_004520267.1	scaffold6606	1149	GG	AA	AA	INTERGENIC			
SNP_115454_A_16533	NW_004520269.1	scaffold6610	16533	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115455_A_398	NW_004520272.1	scaffold6613	398	CC	TT	TT	INTERGENIC			
SNP_115456_A_421	NW_004520272.1	scaffold6613	421	TT	AA	AA	INTERGENIC			
SNP_115457_A_674	NW_004520281.1	scaffold6623	674	CC	AA	AA	INTERGENIC			
SNP_115459_A_3529	NW_004520288.1	scaffold6637	3529	CC	GG	GG	INTERGENIC			
SNP_115460_A_463	NW_004520291.1	scaffold6646	463	TT	AA	AA	INTERGENIC			
SNP_115461_A_479	NW_004520291.1	scaffold6646	479	GG	AA	AA	INTERGENIC			
SNP_115462_A_508	NW_004520291.1	scaffold6646	508	TT	AA	AA	INTERGENIC			
SNP_115463_A_809	NW_004520291.1	scaffold6646	809	TT	AA	AA	INTERGENIC			
SNP_115464_A_1097	NW_004520291.1	scaffold6646	1097	CC	TT	TT	INTERGENIC			
SNP_115465_A_1644	NW_004520291.1	scaffold6646	1644	CC	TT	TT	INTERGENIC			
SNP_115466_A_1656	NW_004520291.1	scaffold6646	1656	CC	TT	TT	INTERGENIC			
SNP_115467_A_1881	NW_004520291.1	scaffold6646	1881	AA	TT	TT	INTERGENIC			
SNP_115468_A_1903	NW_004520291.1	scaffold6646	1903	GG	CC	CC	INTERGENIC			
SNP_115469_A_2062	NW_004520291.1	scaffold6646	2062	TT	GG	GG	INTERGENIC			
SNP_115470_A_567	NW_004520304.1	scaffold6669	567	CC	AA	AA	INTERGENIC			
SNP_115471_A_64	NW_004520305.1	scaffold6671	64	TT	AA	AA	INTERGENIC			
SNP_115472_A_739	NW_004520306.1	scaffold6672	739	TT	AA	AA	INTERGENIC			
SNP_115473_A_1068	NW_004520306.1	scaffold6672	1068	AA	GG	GG	INTERGENIC			
SNP_115474_A_191	NW_004520307.1	scaffold6673	191	AA	TT	TT	INTERGENIC			
SNP_115475_A_329	NW_004520307.1	scaffold6673	329	TT	AA	AA	INTERGENIC			
SNP_115476_A_331	NW_004520307.1	scaffold6673	331	TT	AA	AA	INTERGENIC			
SNP_115477_A_445	NW_004520307.1	scaffold6673	445	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115478_A_494	NW_004520307.1	scaffold6673	494	AA	CC	CC	INTERGENIC			
SNP_115479_A_564	NW_004520307.1	scaffold6673	564	CC	AA	AA	INTERGENIC			
SNP_115480_A_650	NW_004520307.1	scaffold6673	650	CC	TT	TT	INTERGENIC			
SNP_115481_A_663	NW_004520307.1	scaffold6673	663	GG	AA	AA	INTERGENIC			
SNP_115482_A_672	NW_004520307.1	scaffold6673	672	TT	CC	CC	INTERGENIC			
SNP_115483_A_823	NW_004520307.1	scaffold6673	823	CC	TT	TT	INTERGENIC			
SNP_115484_A_934	NW_004520307.1	scaffold6673	934	AA	GG	GG	INTERGENIC			
SNP_115485_A_1107	NW_004520307.1	scaffold6673	1107	AA	GG	GG	INTERGENIC			
SNP_115486_A_1125	NW_004520307.1	scaffold6673	1125	GG	TT	TT	INTERGENIC			
SNP_115487_A_12892	NW_004520317.1	scaffold6687	12892	TT	GG	GG	INTERGENIC			
SNP_115488_A_14297	NW_004520317.1	scaffold6687	14297	TT	CC	CC	INTERGENIC			
SNP_115489_A_14724	NW_004520317.1	scaffold6687	14724	AA	TT	TT	INTERGENIC			
SNP_115490_A_826	NW_004520321.1	scaffold6694	826	TT	GG	GG	INTERGENIC			
SNP_115491_A_851	NW_004520321.1	scaffold6694	851	CC	AA	AA	INTERGENIC			
SNP_115492_A_1584	NW_004520321.1	scaffold6694	1584	GG	AA	AA	INTERGENIC			
SNP_115493_A_1626	NW_004520321.1	scaffold6694	1626	CC	AA	AA	INTERGENIC			
SNP_115495_A_2027	NW_004520321.1	scaffold6694	2027	GG	TT	TT	INTERGENIC			
SNP_115496_A_2072	NW_004520321.1	scaffold6694	2072	AA	TT	TT	INTERGENIC			
SNP_115497_A_2280	NW_004520321.1	scaffold6694	2280	GG	AA	AA	INTERGENIC			
SNP_115498_A_2341	NW_004520321.1	scaffold6694	2341	TT	CC	CC	INTERGENIC			
SNP_115499_A_782	NW_004520322.1	scaffold6695	782	CC	TT	TT	INTERGENIC			
SNP_115500_A_1143	NW_004520322.1	scaffold6695	1143	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115501_A_1156	NW_004520322.1	scaffold6695	1156	TT	GG	GG	INTERGENIC			
SNP_115502_A_939	NW_004520323.1	scaffold6696	939	AA	TT	TT	INTERGENIC			
SNP_115504_A_983	NW_004520323.1	scaffold6696	983	CC	TT	TT	INTERGENIC			
SNP_115505_A_1000	NW_004520323.1	scaffold6696	1000	TT	CC	CC	INTERGENIC			
SNP_115506_A_1016	NW_004520323.1	scaffold6696	1016	TT	CC	CC	INTERGENIC			
SNP_115507_A_1165	NW_004520323.1	scaffold6696	1165	TT	CC	CC	INTERGENIC			
SNP_115508_A_201	NW_004520327.1	scaffold6700	201	AA	TT	TT	INTERGENIC			
SNP_115509_A_202	NW_004520327.1	scaffold6700	202	GG	AA	AA	INTERGENIC			
SNP_115510_A_210	NW_004520327.1	scaffold6700	210	AA	GG	GG	INTERGENIC			
SNP_115511_A_303	NW_004520327.1	scaffold6700	303	GG	AA	AA	INTERGENIC			
SNP_115512_A_361	NW_004520327.1	scaffold6700	361	AA	GG	GG	INTERGENIC			
SNP_115513_A_384	NW_004520327.1	scaffold6700	384	TT	GG	GG	INTERGENIC			
SNP_115514_A_395	NW_004520327.1	scaffold6700	395	CC	TT	TT	INTERGENIC			
SNP_115515_A_411	NW_004520327.1	scaffold6700	411	TT	AA	AA	INTERGENIC			
SNP_115516_A_527	NW_004520327.1	scaffold6700	527	TT	CC	CC	INTERGENIC			
SNP_115517_A_536	NW_004520327.1	scaffold6700	536	AA	GG	GG	INTERGENIC			
SNP_115518_A_568	NW_004520327.1	scaffold6700	568	AA	TT	TT	INTERGENIC			
SNP_115519_A_574	NW_004520327.1	scaffold6700	574	TT	CC	CC	INTERGENIC			
SNP_115520_A_635	NW_004520327.1	scaffold6700	635	GG	AA	AA	INTERGENIC			
SNP_115521_A_661	NW_004520327.1	scaffold6700	661	TT	CC	CC	INTERGENIC			
SNP_115522_A_719	NW_004520327.1	scaffold6700	719	AA	GG	GG	INTERGENIC			
SNP_115523_A_738	NW_004520327.1	scaffold6700	738	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115524_A_858	NW_004520327.1	scaffold6700	858	AA	GG	GG	INTERGENIC			
SNP_115525_A_1174	NW_004520327.1	scaffold6700	1174	GG	AA	AA	INTERGENIC			
SNP_115526_A_1671	NW_004520327.1	scaffold6700	1671	TT	GG	GG	INTERGENIC			
SNP_115527_A_1008	NW_004520331.1	scaffold6710	1008	TT	GG	GG	INTERGENIC			
SNP_115528_A_2102	NW_004520333.1	scaffold6714	2102	AA	TT	TT	INTERGENIC			
SNP_115529_A_2123	NW_004520333.1	scaffold6714	2123	AA	GG	GG	INTERGENIC			
SNP_115530_A_123	NW_004520335.1	scaffold6717	123	AA	CC	CC	INTERGENIC			
SNP_115531_A_133	NW_004520335.1	scaffold6717	133	CC	AA	AA	INTERGENIC			
SNP_115532_A_587	NW_004520336.1	scaffold6719	587	GG	AA	AA	INTERGENIC			
SNP_115533_A_328	NW_004520337.1	scaffold6720	328	GG	AA	AA	INTERGENIC			
SNP_115534_A_361	NW_004520337.1	scaffold6720	361	GG	CC	CC	INTERGENIC			
SNP_115536_A_639	NW_004520337.1	scaffold6720	639	TT	GG	GG	INTERGENIC			
SNP_115537_A_5155	NW_004520337.1	scaffold6720	5155	AA	GG	GG	INTERGENIC			
SNP_115539_A_5333	NW_004520337.1	scaffold6720	5333	AA	TT	TT	INTERGENIC			
SNP_115540_A_5348	NW_004520337.1	scaffold6720	5348	CC	TT	TT	INTERGENIC			
SNP_115541_A_5482	NW_004520337.1	scaffold6720	5482	CC	TT	TT	INTERGENIC			
SNP_115542_A_684	NW_004520338.1	scaffold6721	684	TT	AA	AA	INTERGENIC			
SNP_115543_A_2205	NW_004520338.1	scaffold6721	2205	GG	TT	TT	NON_SYNONYMOUS_CODING	101513692	Unknown function	
SNP_115544_A_112	NW_004520339.1	scaffold6722	112	TT	CC	CC	INTERGENIC			
SNP_115545_A_454	NW_004520339.1	scaffold6722	454	CC	GG	GG	INTERGENIC			
SNP_115546_A_719	NW_004520339.1	scaffold6722	719	TT	AA	AA	INTERGENIC			
SNP_115547_A_772	NW_004520339.1	scaffold6722	772	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115548_A_783	NW_004520339.1	scaffold6722	783	GG	TT	TT	INTERGENIC			
SNP_115549_A_799	NW_004520339.1	scaffold6722	799	GG	CC	CC	INTERGENIC			
SNP_115550_A_830	NW_004520339.1	scaffold6722	830	GG	TT	TT	INTERGENIC			
SNP_115551_A_845	NW_004520339.1	scaffold6722	845	AA	GG	GG	INTERGENIC			
SNP_115552_A_894	NW_004520339.1	scaffold6722	894	TT	GG	GG	INTERGENIC			
SNP_115553_A_976	NW_004520339.1	scaffold6722	976	TT	AA	AA	INTERGENIC			
SNP_115554_A_979	NW_004520339.1	scaffold6722	979	CC	TT	TT	INTERGENIC			
SNP_115555_A_980	NW_004520339.1	scaffold6722	980	CC	TT	TT	INTERGENIC			
SNP_115556_A_981	NW_004520339.1	scaffold6722	981	CC	TT	TT	INTERGENIC			
SNP_115557_A_982	NW_004520339.1	scaffold6722	982	GG	CC	CC	INTERGENIC			
SNP_115559_A_993	NW_004520339.1	scaffold6722	993	TT	CC	CC	INTERGENIC			
SNP_115560_A_995	NW_004520339.1	scaffold6722	995	AA	TT	TT	INTERGENIC			
SNP_115561_A_1309	NW_004520339.1	scaffold6722	1309	AA	GG	GG	INTERGENIC			
SNP_115562_A_1472	NW_004520339.1	scaffold6722	1472	TT	CC	CC	INTERGENIC			
SNP_115563_A_1478	NW_004520339.1	scaffold6722	1478	TT	GG	GG	INTERGENIC			
SNP_115564_A_1552	NW_004520339.1	scaffold6722	1552	AA	GG	GG	INTERGENIC			
SNP_115566_A_1881	NW_004520339.1	scaffold6722	1881	TT	GG	GG	INTERGENIC			
SNP_115567_A_1887	NW_004520339.1	scaffold6722	1887	AA	GG	GG	INTERGENIC			
SNP_115568_A_548	NW_004520340.1	scaffold6725	548	AA	GG	GG	INTERGENIC			
SNP_115569_A_586	NW_004520340.1	scaffold6725	586	TT	AA	AA	INTERGENIC			
SNP_115570_A_587	NW_004520340.1	scaffold6725	587	GG	TT	TT	INTERGENIC			
SNP_115571_A_750	NW_004520340.1	scaffold6725	750	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115572_A_751	NW_004520340.1	scaffold6725	751	TT	GG	GG	INTERGENIC			
SNP_115573_A_752	NW_004520340.1	scaffold6725	752	GG	TT	TT	INTERGENIC			
SNP_115574_A_941	NW_004520340.1	scaffold6725	941	AA	GG	GG	INTERGENIC			
SNP_115575_A_1011	NW_004520340.1	scaffold6725	1011	AA	GG	GG	INTERGENIC			
SNP_115576_A_1402	NW_004520340.1	scaffold6725	1402	AA	CC	CC	INTERGENIC			
SNP_115577_A_1622	NW_004520340.1	scaffold6725	1622	GG	AA	AA	INTERGENIC			
SNP_115578_A_1688	NW_004520340.1	scaffold6725	1688	AA	TT	TT	INTERGENIC			
SNP_115579_A_1700	NW_004520340.1	scaffold6725	1700	AA	CC	CC	INTERGENIC			
SNP_115580_A_1791	NW_004520340.1	scaffold6725	1791	CC	TT	TT	INTERGENIC			
SNP_115581_A_1909	NW_004520340.1	scaffold6725	1909	TT	AA	AA	INTERGENIC			
SNP_115582_A_1979	NW_004520340.1	scaffold6725	1979	CC	TT	TT	INTERGENIC			
SNP_115584_A_2013	NW_004520340.1	scaffold6725	2013	AA	GG	GG	INTERGENIC			
SNP_115585_A_2014	NW_004520340.1	scaffold6725	2014	AA	TT	TT	INTERGENIC			
SNP_115586_A_2041	NW_004520340.1	scaffold6725	2041	CC	TT	TT	INTERGENIC			
SNP_115587_A_1099	NW_004520341.1	scaffold6728	1099	GG	CC	CC	INTERGENIC			
SNP_115588_A_4934	NW_004520341.1	scaffold6728	4934	CC	GG	GG	INTERGENIC			
SNP_115589_A_9507	NW_004520341.1	scaffold6728	9507	AA	GG	GG	INTERGENIC			
SNP_115591_A_9598	NW_004520341.1	scaffold6728	9598	AA	CC	CC	INTERGENIC			
SNP_115592_A_753	NW_004520343.1	scaffold6731	753	GG	AA	AA	INTERGENIC			
SNP_115593_A_993	NW_004520343.1	scaffold6731	993	GG	CC	CC	INTERGENIC			
SNP_115594_A_1267	NW_004520343.1	scaffold6731	1267	TT	CC	CC	INTERGENIC			
SNP_115595_A_100	NW_004520345.1	scaffold6734	100	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115596_A_699	NW_004520345.1	scaffold6734	699	TT	AA	AA	INTERGENIC			
SNP_115597_A_64	NW_004520346.1	scaffold6736	64	AA	CC	CC	INTERGENIC			
SNP_115598_A_1273	NW_004520347.1	scaffold6737	1273	CC	GG	GG	INTERGENIC			
SNP_115599_A_1790	NW_004520347.1	scaffold6737	1790	GG	AA	AA	INTERGENIC			
SNP_115600_A_1822	NW_004520347.1	scaffold6737	1822	TT	CC	CC	INTERGENIC			
SNP_115601_A_1974	NW_004520347.1	scaffold6737	1974	AA	TT	TT	INTERGENIC			
SNP_115602_A_2123	NW_004520347.1	scaffold6737	2123	GG	CC	CC	INTERGENIC			
SNP_115603_A_2367	NW_004520347.1	scaffold6737	2367	GG	TT	TT	INTERGENIC			
SNP_115604_A_2378	NW_004520347.1	scaffold6737	2378	AA	TT	TT	INTERGENIC			
SNP_115605_A_2420	NW_004520347.1	scaffold6737	2420	AA	TT	TT	INTERGENIC			
SNP_115606_A_2454	NW_004520347.1	scaffold6737	2454	AA	GG	GG	INTERGENIC			
SNP_115607_A_2517	NW_004520347.1	scaffold6737	2517	CC	TT	TT	INTERGENIC			
SNP_115608_A_2660	NW_004520347.1	scaffold6737	2660	GG	TT	TT	INTERGENIC			
SNP_115609_A_2721	NW_004520347.1	scaffold6737	2721	TT	CC	CC	INTERGENIC			
SNP_115610_A_3354	NW_004520347.1	scaffold6737	3354	AA	GG	GG	INTERGENIC			
SNP_115611_A_3463	NW_004520347.1	scaffold6737	3463	TT	CC	CC	INTERGENIC			
SNP_115612_A_3647	NW_004520347.1	scaffold6737	3647	TT	CC	CC	INTERGENIC			
SNP_115613_A_3754	NW_004520347.1	scaffold6737	3754	CC	GG	GG	INTERGENIC			
SNP_115614_A_3906	NW_004520347.1	scaffold6737	3906	AA	CC	CC	INTERGENIC			
SNP_115615_A_5232	NW_004520347.1	scaffold6737	5232	AA	GG	GG	INTERGENIC			
SNP_115616_A_6647	NW_004520347.1	scaffold6737	6647	AA	GG	GG	INTERGENIC			
SNP_115617_A_437	NW_004520348.1	scaffold6738	437	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115618_A_572	NW_004520348.1	scaffold6738	572	AA	CC	CC	INTERGENIC			
SNP_115619_A_1389	NW_004520348.1	scaffold6738	1389	CC	TT	TT	INTERGENIC			
SNP_115620_A_1436	NW_004520348.1	scaffold6738	1436	AA	TT	TT	INTERGENIC			
SNP_115621_A_4019	NW_004520354.1	scaffold6750	4019	TT	CC	CC	INTERGENIC			
SNP_115622_A_5692	NW_004520354.1	scaffold6750	5692	AA	GG	GG	INTERGENIC			
SNP_115624_A_6701	NW_004520354.1	scaffold6750	6701	AA	TT	TT	INTERGENIC			
SNP_115625_A_592	NW_004520359.1	scaffold6759	592	TT	AA	AA	INTERGENIC			
SNP_115626_A_77	NW_004520360.1	scaffold6760	77	GG	AA	AA	INTERGENIC			
SNP_115627_A_82	NW_004520360.1	scaffold6760	82	CC	GG	GG	INTERGENIC			
SNP_115628_A_195	NW_004520360.1	scaffold6760	195	TT	AA	AA	INTERGENIC			
SNP_115629_A_249	NW_004520360.1	scaffold6760	249	CC	TT	TT	INTERGENIC			
SNP_115630_A_370	NW_004520360.1	scaffold6760	370	GG	TT	TT	INTERGENIC			
SNP_115631_A_416	NW_004520360.1	scaffold6760	416	AA	TT	TT	INTERGENIC			
SNP_115632_A_427	NW_004520360.1	scaffold6760	427	AA	TT	TT	INTERGENIC			
SNP_115633_A_451	NW_004520360.1	scaffold6760	451	TT	AA	AA	INTERGENIC			
SNP_115634_A_503	NW_004520360.1	scaffold6760	503	AA	GG	GG	INTERGENIC			
SNP_115635_A_514	NW_004520360.1	scaffold6760	514	AA	GG	GG	INTERGENIC			
SNP_115636_A_613	NW_004520360.1	scaffold6760	613	TT	AA	AA	INTERGENIC			
SNP_115638_A_701	NW_004520360.1	scaffold6760	701	GG	TT	TT	INTERGENIC			
SNP_115639_A_788	NW_004520360.1	scaffold6760	788	CC	TT	TT	INTERGENIC			
SNP_115640_A_885	NW_004520360.1	scaffold6760	885	TT	CC	CC	INTERGENIC			
SNP_115642_A_944	NW_004520360.1	scaffold6760	944	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115644_A_859	NW_004520364.1	scaffold6770	859	GG	CC	CC	INTERGENIC			
SNP_115645_A_1141	NW_004520364.1	scaffold6770	1141	GG	CC	CC	INTERGENIC			
SNP_115646_A_1143	NW_004520364.1	scaffold6770	1143	AA	GG	GG	INTERGENIC			
SNP_115647_A_64	NW_004520368.1	scaffold6775	64	GG	TT	TT	INTERGENIC			
SNP_115648_A_85	NW_004520368.1	scaffold6775	85	TT	GG	GG	INTERGENIC			
SNP_115649_A_146	NW_004520368.1	scaffold6775	146	CC	AA	AA	INTERGENIC			
SNP_115650_A_11256	NW_004520369.1	scaffold6778	11256	CC	TT	TT	INTERGENIC			
SNP_115651_A_11257	NW_004520369.1	scaffold6778	11257	GG	AA	AA	INTERGENIC			
SNP_115652_A_11269	NW_004520369.1	scaffold6778	11269	AA	GG	GG	INTERGENIC			
SNP_115653_A_11414	NW_004520369.1	scaffold6778	11414	GG	CC	CC	INTERGENIC			
SNP_115654_A_11533	NW_004520369.1	scaffold6778	11533	GG	AA	AA	INTERGENIC			
SNP_115655_A_11693	NW_004520369.1	scaffold6778	11693	TT	CC	CC	INTERGENIC			
SNP_115656_A_11731	NW_004520369.1	scaffold6778	11731	GG	CC	CC	INTERGENIC			
SNP_115657_A_11795	NW_004520369.1	scaffold6778	11795	AA	TT	TT	INTERGENIC			
SNP_115658_A_12147	NW_004520369.1	scaffold6778	12147	GG	TT	TT	INTERGENIC			
SNP_115659_A_64	NW_004520371.1	scaffold6782	64	CC	AA	AA	INTERGENIC			
SNP_115660_A_81	NW_004520371.1	scaffold6782	81	TT	CC	CC	INTERGENIC			
SNP_115661_A_202	NW_004520371.1	scaffold6782	202	AA	TT	TT	INTERGENIC			
SNP_115662_A_307	NW_004520371.1	scaffold6782	307	AA	GG	GG	INTERGENIC			
SNP_115663_A_384	NW_004520371.1	scaffold6782	384	TT	CC	CC	INTERGENIC			
SNP_115664_A_425	NW_004520371.1	scaffold6782	425	CC	AA	AA	INTERGENIC			
SNP_115666_A_724	NW_004520371.1	scaffold6782	724	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115668_A_775	NW_004520371.1	scaffold6782	775	GG	AA	AA	INTERGENIC			
SNP_115671_A_1243	NW_004520371.1	scaffold6782	1243	CC	TT	TT	INTERGENIC			
SNP_115672_A_1309	NW_004520371.1	scaffold6782	1309	GG	AA	AA	INTERGENIC			
SNP_115673_A_271	NW_004520372.1	scaffold6784	271	TT	AA	AA	INTERGENIC			
SNP_115674_A_104	NW_004520376.1	scaffold6790	104	CC	TT	TT	INTERGENIC			
SNP_115675_A_259	NW_004520376.1	scaffold6790	259	TT	CC	CC	INTERGENIC			
SNP_115676_A_503	NW_004520376.1	scaffold6790	503	CC	AA	AA	INTERGENIC			
SNP_115677_A_555	NW_004520376.1	scaffold6790	555	CC	TT	TT	INTERGENIC			
SNP_115678_A_580	NW_004520376.1	scaffold6790	580	GG	AA	AA	INTERGENIC			
SNP_115680_A_1052	NW_004520376.1	scaffold6790	1052	GG	TT	TT	INTERGENIC			
SNP_115681_A_1060	NW_004520376.1	scaffold6790	1060	GG	AA	AA	INTERGENIC			
SNP_115682_A_1114	NW_004520376.1	scaffold6790	1114	AA	CC	CC	INTERGENIC			
SNP_115683_A_1123	NW_004520376.1	scaffold6790	1123	CC	TT	TT	INTERGENIC			
SNP_115684_A_1149	NW_004520376.1	scaffold6790	1149	CC	TT	TT	INTERGENIC			
SNP_115685_A_1157	NW_004520376.1	scaffold6790	1157	CC	TT	TT	INTERGENIC			
SNP_115686_A_1222	NW_004520376.1	scaffold6790	1222	CC	AA	AA	INTERGENIC			
SNP_115687_A_1238	NW_004520376.1	scaffold6790	1238	GG	AA	AA	INTERGENIC			
SNP_115688_A_1321	NW_004520376.1	scaffold6790	1321	GG	TT	TT	INTERGENIC			
SNP_115690_A_1477	NW_004520376.1	scaffold6790	1477	AA	GG	GG	INTERGENIC			
SNP_115691_A_1478	NW_004520376.1	scaffold6790	1478	CC	TT	TT	INTERGENIC			
SNP_115692_A_1540	NW_004520376.1	scaffold6790	1540	AA	TT	TT	INTERGENIC			
SNP_115693_A_2201	NW_004520376.1	scaffold6790	2201	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115694_A_2232	NW_004520376.1	scaffold6790	2232	TT	CC	CC	INTERGENIC			
SNP_115696_A_2300	NW_004520376.1	scaffold6790	2300	TT	CC	CC	INTERGENIC			
SNP_115697_A_2384	NW_004520376.1	scaffold6790	2384	GG	TT	TT	INTERGENIC			
SNP_115698_A_2531	NW_004520376.1	scaffold6790	2531	TT	CC	CC	INTERGENIC			
SNP_115699_A_2707	NW_004520376.1	scaffold6790	2707	AA	TT	TT	INTERGENIC			
SNP_115700_A_2726	NW_004520376.1	scaffold6790	2726	GG	AA	AA	INTERGENIC			
SNP_115701_A_2756	NW_004520376.1	scaffold6790	2756	CC	AA	AA	INTERGENIC			
SNP_115703_A_2859	NW_004520376.1	scaffold6790	2859	GG	AA	AA	INTERGENIC			
SNP_115704_A_2902	NW_004520376.1	scaffold6790	2902	CC	TT	TT	INTERGENIC			
SNP_115705_A_2999	NW_004520376.1	scaffold6790	2999	TT	AA	AA	INTERGENIC			
SNP_115706_A_3000	NW_004520376.1	scaffold6790	3000	CC	TT	TT	INTERGENIC			
SNP_115707_A_3035	NW_004520376.1	scaffold6790	3035	TT	CC	CC	INTERGENIC			
SNP_115708_A_3075	NW_004520376.1	scaffold6790	3075	TT	CC	CC	INTERGENIC			
SNP_115709_A_3126	NW_004520376.1	scaffold6790	3126	AA	GG	GG	INTERGENIC			
SNP_115710_A_3191	NW_004520376.1	scaffold6790	3191	AA	GG	GG	INTERGENIC			
SNP_115711_A_3202	NW_004520376.1	scaffold6790	3202	TT	CC	CC	INTERGENIC			
SNP_115712_A_3215	NW_004520376.1	scaffold6790	3215	CC	TT	TT	INTERGENIC			
SNP_115713_A_3856	NW_004520377.1	scaffold6791	3856	GG	TT	TT	INTERGENIC			
SNP_115714_A_3904	NW_004520377.1	scaffold6791	3904	CC	GG	GG	INTERGENIC			
SNP_115715_A_3959	NW_004520377.1	scaffold6791	3959	GG	AA	AA	INTERGENIC			
SNP_115716_A_4144	NW_004520377.1	scaffold6791	4144	AA	TT	TT	INTERGENIC			
SNP_115717_A_4335	NW_004520377.1	scaffold6791	4335	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115718_A_4460	NW_004520377.1	scaffold6791	4460	TT	AA	AA	INTERGENIC			
SNP_115719_A_4544	NW_004520377.1	scaffold6791	4544	AA	GG	GG	INTERGENIC			
SNP_115720_A_5041	NW_004520377.1	scaffold6791	5041	GG	CC	CC	INTERGENIC			
SNP_115721_A_13564	NW_004520377.1	scaffold6791	13564	TT	AA	AA	INTERGENIC			
SNP_115722_A_13787	NW_004520377.1	scaffold6791	13787	TT	GG	GG	INTERGENIC			
SNP_115723_A_18793	NW_004520377.1	scaffold6791	18793	CC	TT	TT	INTERGENIC			
SNP_115724_A_18795	NW_004520377.1	scaffold6791	18795	GG	AA	AA	INTERGENIC			
SNP_115725_A_24362	NW_004520377.1	scaffold6791	24362	AA	TT	TT	INTERGENIC			
SNP_115726_A_24417	NW_004520377.1	scaffold6791	24417	CC	TT	TT	INTERGENIC			
SNP_115727_A_26017	NW_004520377.1	scaffold6791	26017	GG	AA	AA	INTERGENIC			
SNP_115728_A_26020	NW_004520377.1	scaffold6791	26020	AA	GG	GG	INTERGENIC			
SNP_115730_A_609	NW_004520384.1	scaffold6808	609	CC	AA	AA	INTERGENIC			
SNP_115731_A_614	NW_004520384.1	scaffold6808	614	CC	TT	TT	INTERGENIC			
SNP_115732_A_422	NW_004520388.1	scaffold6814	422	TT	CC	CC	INTERGENIC			
SNP_115733_A_231	NW_004520392.1	scaffold6820	231	AA	GG	GG	INTERGENIC			
SNP_115734_A_523	NW_004520392.1	scaffold6820	523	GG	AA	AA	INTERGENIC			
SNP_115735_A_964	NW_004520392.1	scaffold6820	964	TT	CC	CC	INTERGENIC			
SNP_115736_A_989	NW_004520392.1	scaffold6820	989	AA	CC	CC	INTERGENIC			
SNP_115737_A_742	NW_004520397.1	scaffold6827	742	CC	TT	TT	INTERGENIC			
SNP_115738_A_371	NW_004520398.1	scaffold6828	371	AA	GG	GG	INTERGENIC			
SNP_115739_A_506	NW_004520398.1	scaffold6828	506	CC	TT	TT	INTERGENIC			
SNP_115740_A_522	NW_004520398.1	scaffold6828	522	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115741_A_866	NW_004520398.1	scaffold6828	866	TT	AA	AA	INTERGENIC			
SNP_115742_A_939	NW_004520398.1	scaffold6828	939	CC	TT	TT	INTERGENIC			
SNP_115743_A_141	NW_004520399.1	scaffold6830	141	CC	TT	TT	INTERGENIC			
SNP_115744_A_176	NW_004520399.1	scaffold6830	176	CC	TT	TT	INTERGENIC			
SNP_115745_A_2042	NW_004520403.1	scaffold6837	2042	AA	TT	TT	INTERGENIC			
SNP_115746_A_2247	NW_004520403.1	scaffold6837	2247	GG	TT	TT	INTERGENIC			
SNP_115747_A_64	NW_004520406.1	scaffold6842	64	GG	TT	TT	INTERGENIC			
SNP_115748_A_107	NW_004520406.1	scaffold6842	107	AA	TT	TT	INTERGENIC			
SNP_115749_A_109	NW_004520406.1	scaffold6842	109	TT	GG	GG	INTERGENIC			
SNP_115750_A_318	NW_004520406.1	scaffold6842	318	TT	CC	CC	INTERGENIC			
SNP_115751_A_1808	NW_004520406.1	scaffold6842	1808	AA	CC	CC	INTERGENIC			
SNP_115752_A_1821	NW_004520406.1	scaffold6842	1821	CC	TT	TT	INTERGENIC			
SNP_115753_A_1353	NW_004520407.1	scaffold6843	1353	AA	GG	GG	INTERGENIC			
SNP_115754_A_383	NW_004520408.1	scaffold6845	383	AA	GG	GG	INTERGENIC			
SNP_115755_A_384	NW_004520408.1	scaffold6845	384	TT	CC	CC	INTERGENIC			
SNP_115756_A_434	NW_004520408.1	scaffold6845	434	GG	CC	CC	INTERGENIC			
SNP_115757_A_513	NW_004520408.1	scaffold6845	513	AA	CC	CC	INTERGENIC			
SNP_115758_A_702	NW_004520408.1	scaffold6845	702	CC	AA	AA	INTERGENIC			
SNP_115759_A_737	NW_004520408.1	scaffold6845	737	AA	TT	TT	INTERGENIC			
SNP_115760_A_873	NW_004520408.1	scaffold6845	873	TT	GG	GG	INTERGENIC			
SNP_115761_A_1005	NW_004520408.1	scaffold6845	1005	AA	TT	TT	INTERGENIC			
SNP_115762_A_1072	NW_004520408.1	scaffold6845	1072	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115763_A_1077	NW_004520408.1	scaffold6845	1077	GG	AA	AA	INTERGENIC			
SNP_115764_A_1262	NW_004520408.1	scaffold6845	1262	AA	TT	TT	INTERGENIC			
SNP_115766_A_1382	NW_004520408.1	scaffold6845	1382	GG	TT	TT	INTERGENIC			
SNP_115768_A_537	NW_004520409.1	scaffold6846	537	AA	TT	TT	INTERGENIC			
SNP_115769_A_606	NW_004520409.1	scaffold6846	606	CC	AA	AA	INTERGENIC			
SNP_115770_A_627	NW_004520409.1	scaffold6846	627	CC	AA	AA	INTERGENIC			
SNP_115771_A_701	NW_004520409.1	scaffold6846	701	TT	AA	AA	INTERGENIC			
SNP_115772_A_730	NW_004520409.1	scaffold6846	730	TT	GG	GG	INTERGENIC			
SNP_115773_A_747	NW_004520409.1	scaffold6846	747	AA	GG	GG	INTERGENIC			
SNP_115774_A_826	NW_004520409.1	scaffold6846	826	CC	TT	TT	INTERGENIC			
SNP_115775_A_827	NW_004520409.1	scaffold6846	827	AA	CC	CC	INTERGENIC			
SNP_115776_A_828	NW_004520409.1	scaffold6846	828	TT	AA	AA	INTERGENIC			
SNP_115777_A_895	NW_004520409.1	scaffold6846	895	TT	CC	CC	INTERGENIC			
SNP_115778_A_918	NW_004520409.1	scaffold6846	918	CC	GG	GG	INTERGENIC			
SNP_115779_A_959	NW_004520409.1	scaffold6846	959	AA	GG	GG	INTERGENIC			
SNP_115780_A_1407	NW_004520409.1	scaffold6846	1407	AA	GG	GG	INTERGENIC			
SNP_115781_A_1568	NW_004520409.1	scaffold6846	1568	CC	GG	GG	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	
SNP_115782_A_1679	NW_004520409.1	scaffold6846	1679	CC	TT	TT	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	
SNP_115783_A_1867	NW_004520409.1	scaffold6846	1867	AA	GG	GG	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	
SNP_115784_A_2368	NW_004520409.1	scaffold6846	2368	TT	AA	AA	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	
SNP_115785_A_2369	NW_004520409.1	scaffold6846	2369	GG	TT	TT	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	
SNP_115786_A_2431	NW_004520409.1	scaffold6846	2431	CC	AA	AA	DRR	101514358	serine/threonine-protein phosphatase PP1 isozyme 3-like	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115787_A_79	NW_004520411.1	scaffold6851	79	TT	CC	CC	INTERGENIC			
SNP_115788_A_128	NW_004520411.1	scaffold6851	128	AA	GG	GG	INTERGENIC			
SNP_115789_A_150	NW_004520411.1	scaffold6851	150	TT	CC	CC	INTERGENIC			
SNP_115790_A_186	NW_004520411.1	scaffold6851	186	AA	GG	GG	INTERGENIC			
SNP_115791_A_381	NW_004520411.1	scaffold6851	381	AA	TT	TT	INTERGENIC			
SNP_115792_A_398	NW_004520411.1	scaffold6851	398	AA	CC	CC	INTERGENIC			
SNP_115793_A_443	NW_004520411.1	scaffold6851	443	AA	GG	GG	INTERGENIC			
SNP_115794_A_448	NW_004520411.1	scaffold6851	448	AA	TT	TT	INTERGENIC			
SNP_115795_A_467	NW_004520411.1	scaffold6851	467	GG	CC	CC	INTERGENIC			
SNP_115796_A_516	NW_004520411.1	scaffold6851	516	TT	CC	CC	INTERGENIC			
SNP_115797_A_593	NW_004520411.1	scaffold6851	593	AA	TT	TT	INTERGENIC			
SNP_115798_A_743	NW_004520411.1	scaffold6851	743	TT	CC	CC	INTERGENIC			
SNP_115799_A_1535	NW_004520411.1	scaffold6851	1535	TT	GG	GG	INTERGENIC			
SNP_115800_A_1604	NW_004520411.1	scaffold6851	1604	AA	CC	CC	INTERGENIC			
SNP_115801_A_391	NW_004520412.1	scaffold6852	391	GG	CC	CC	INTERGENIC			
SNP_115802_A_586	NW_004520412.1	scaffold6852	586	CC	AA	AA	INTERGENIC			
SNP_115803_A_268	NW_004520414.1	scaffold6854	268	CC	TT	TT	INTERGENIC			
SNP_115804_A_342	NW_004520414.1	scaffold6854	342	CC	TT	TT	INTERGENIC			
SNP_115805_A_573	NW_004520414.1	scaffold6854	573	TT	CC	CC	INTERGENIC			
SNP_115806_A_704	NW_004520414.1	scaffold6854	704	AA	TT	TT	INTERGENIC			
SNP_115807_A_720	NW_004520414.1	scaffold6854	720	TT	AA	AA	INTERGENIC			
SNP_115808_A_900	NW_004520414.1	scaffold6854	900	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115809_A_962	NW_004520414.1	scaffold6854	962	AA	GG	GG	INTERGENIC			
SNP_115810_A_989	NW_004520414.1	scaffold6854	989	CC	TT	TT	INTERGENIC			
SNP_115811_A_1008	NW_004520414.1	scaffold6854	1008	GG	AA	AA	INTERGENIC			
SNP_115812_A_1014	NW_004520414.1	scaffold6854	1014	AA	TT	GG	INTERGENIC			
SNP_115813_A_729	NW_004520421.1	scaffold6867	729	CC	TT	TT	INTERGENIC			
SNP_115814_A_900	NW_004520422.1	scaffold6868	900	TT	CC	CC	INTERGENIC			
SNP_115815_A_539	NW_004520423.1	scaffold6869	539	CC	GG	GG	INTERGENIC			
SNP_115816_A_542	NW_004520423.1	scaffold6869	542	TT	CC	CC	INTERGENIC			
SNP_115817_A_602	NW_004520423.1	scaffold6869	602	AA	CC	CC	INTERGENIC			
SNP_115818_A_813	NW_004520423.1	scaffold6869	813	TT	CC	CC	INTERGENIC			
SNP_115819_A_983	NW_004520425.1	scaffold6873	983	CC	AA	AA	INTERGENIC			
SNP_115820_A_1028	NW_004520425.1	scaffold6873	1028	CC	GG	GG	INTERGENIC			
SNP_115821_A_1113	NW_004520425.1	scaffold6873	1113	CC	GG	GG	INTERGENIC			
SNP_115822_A_1436	NW_004520425.1	scaffold6873	1436	AA	CC	CC	INTERGENIC			
SNP_115824_A_1466	NW_004520425.1	scaffold6873	1466	TT	CC	CC	INTERGENIC			
SNP_115825_A_1541	NW_004520425.1	scaffold6873	1541	TT	CC	CC	INTERGENIC			
SNP_115826_A_1554	NW_004520427.1	scaffold6876	1554	TT	CC	CC	INTERGENIC			
SNP_115827_A_1710	NW_004520427.1	scaffold6876	1710	GG	TT	TT	INTERGENIC			
SNP_115828_A_1750	NW_004520427.1	scaffold6876	1750	TT	AA	AA	INTERGENIC			
SNP_115829_A_1765	NW_004520427.1	scaffold6876	1765	GG	AA	AA	INTERGENIC			
SNP_115830_A_1884	NW_004520427.1	scaffold6876	1884	CC	AA	AA	INTERGENIC			
SNP_115831_A_1891	NW_004520427.1	scaffold6876	1891	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115832_A_1896	NW_004520427.1	scaffold6876	1896	TT	CC	CC	INTERGENIC			
SNP_115833_A_1951	NW_004520427.1	scaffold6876	1951	CC	AA	AA	INTERGENIC			
SNP_115834_A_1965	NW_004520427.1	scaffold6876	1965	CC	AA	AA	INTERGENIC			
SNP_115835_A_1975	NW_004520427.1	scaffold6876	1975	GG	AA	AA	INTERGENIC			
SNP_115836_A_2039	NW_004520427.1	scaffold6876	2039	CC	TT	TT	INTERGENIC			
SNP_115837_A_2051	NW_004520427.1	scaffold6876	2051	CC	TT	TT	INTERGENIC			
SNP_115838_A_2124	NW_004520427.1	scaffold6876	2124	TT	CC	CC	INTERGENIC			
SNP_115839_A_2126	NW_004520427.1	scaffold6876	2126	GG	AA	AA	INTERGENIC			
SNP_115840_A_2127	NW_004520427.1	scaffold6876	2127	CC	AA	AA	INTERGENIC			
SNP_115841_A_2163	NW_004520427.1	scaffold6876	2163	TT	CC	CC	INTERGENIC			
SNP_115842_A_2164	NW_004520427.1	scaffold6876	2164	CC	TT	TT	INTERGENIC			
SNP_115843_A_2259	NW_004520427.1	scaffold6876	2259	CC	AA	AA	INTERGENIC			
SNP_115844_A_2290	NW_004520427.1	scaffold6876	2290	TT	CC	CC	INTERGENIC			
SNP_115845_A_437	NW_004520429.1	scaffold6878	437	AA	CC	CC	INTERGENIC			
SNP_115846_A_811	NW_004520429.1	scaffold6878	811	AA	GG	GG	INTERGENIC			
SNP_115847_A_1123	NW_004520430.1	scaffold6879	1123	TT	CC	CC	INTERGENIC			
SNP_115848_A_1173	NW_004520430.1	scaffold6879	1173	GG	AA	AA	INTERGENIC			
SNP_115849_A_1368	NW_004520430.1	scaffold6879	1368	GG	TT	TT	INTERGENIC			
SNP_115850_A_1382	NW_004520430.1	scaffold6879	1382	TT	CC	CC	INTERGENIC			
SNP_115851_A_1656	NW_004520430.1	scaffold6879	1656	CC	AA	AA	INTERGENIC			
SNP_115852_A_1658	NW_004520430.1	scaffold6879	1658	CC	GG	GG	INTERGENIC			
SNP_115853_A_1667	NW_004520430.1	scaffold6879	1667	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_115854_A_1668	NW_004520430.1	scaffold6879	1668	AA	TT	TT	INTERGENIC		
SNP_115855_A_1896	NW_004520430.1	scaffold6879	1896	CC	AA	AA	INTERGENIC		
SNP_115856_A_2140	NW_004520430.1	scaffold6879	2140	AA	TT	TT	INTERGENIC		
SNP_115857_A_40	NW_004520431.1	scaffold6882	40	CC	GG	GG	INTERGENIC		
SNP_115858_A_64	NW_004520431.1	scaffold6882	64	GG	AA	AA	INTERGENIC		
SNP_115859_A_115	NW_004520431.1	scaffold6882	115	GG	AA	AA	INTERGENIC		
SNP_115860_A_204	NW_004520431.1	scaffold6882	204	CC	GG	GG	INTERGENIC		
SNP_115862_A_1405	NW_004520439.1	scaffold6896	1405	CC	TT	TT	INTERGENIC		
SNP_115863_A_1450	NW_004520439.1	scaffold6896	1450	CC	AA	AA	INTERGENIC		
SNP_115864_A_1804	NW_004520439.1	scaffold6896	1804	CC	TT	TT	INTERGENIC		
SNP_115865_A_2235	NW_004520439.1	scaffold6896	2235	CC	TT	TT	INTERGENIC		
SNP_115866_A_2287	NW_004520439.1	scaffold6896	2287	CC	GG	GG	INTERGENIC		
SNP_115867_A_2311	NW_004520439.1	scaffold6896	2311	AA	GG	GG	INTERGENIC		
SNP_115868_A_2312	NW_004520439.1	scaffold6896	2312	TT	GG	GG	INTERGENIC		
SNP_115869_A_435	NW_004520444.1	scaffold6903	435	GG	AA	AA	NON_SYNONYMOUS_CODING	101514686	uncharacterized LOC101514686
SNP_115870_A_4934	NW_004520444.1	scaffold6903	4934	GG	AA	AA	INTERGENIC		
SNP_115872_A_5443	NW_004520444.1	scaffold6903	5443	CC	AA	AA	INTERGENIC		
SNP_115873_A_5487	NW_004520444.1	scaffold6903	5487	TT	CC	CC	INTERGENIC		
SNP_115875_A_848	NW_004520451.1	scaffold6915	848	GG	TT	TT	INTERGENIC		
SNP_115876_A_692	NW_004520454.1	scaffold6919	692	GG	AA	AA	INTERGENIC		
SNP_115877_A_700	NW_004520454.1	scaffold6919	700	AA	GG	GG	INTERGENIC		
SNP_115878_A_710	NW_004520454.1	scaffold6919	710	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115879_A_2730	NW_004520456.1	scaffold6923	2730	GG	TT	TT	INTERGENIC			
SNP_115880_A_2927	NW_004520456.1	scaffold6923	2927	GG	CC	CC	INTERGENIC			
SNP_115881_A_3077	NW_004520456.1	scaffold6923	3077	CC	AA	AA	INTERGENIC			
SNP_115882_A_3119	NW_004520456.1	scaffold6923	3119	TT	GG	GG	INTERGENIC			
SNP_115883_A_3120	NW_004520456.1	scaffold6923	3120	GG	TT	TT	INTERGENIC			
SNP_115884_A_3238	NW_004520456.1	scaffold6923	3238	TT	CC	CC	INTERGENIC			
SNP_115885_A_3276	NW_004520456.1	scaffold6923	3276	AA	GG	GG	INTERGENIC			
SNP_115886_A_546	NW_004520459.1	scaffold6926	546	CC	AA	AA	INTERGENIC			
SNP_115887_A_736	NW_004520459.1	scaffold6926	736	TT	GG	GG	INTERGENIC			
SNP_115888_A_747	NW_004520459.1	scaffold6926	747	GG	CC	CC	INTERGENIC			
SNP_115889_A_751	NW_004520459.1	scaffold6926	751	CC	TT	TT	INTERGENIC			
SNP_115890_A_756	NW_004520459.1	scaffold6926	756	AA	CC	CC	INTERGENIC			
SNP_115891_A_765	NW_004520459.1	scaffold6926	765	AA	TT	TT	INTERGENIC			
SNP_115892_A_774	NW_004520459.1	scaffold6926	774	AA	CC	CC	INTERGENIC			
SNP_115893_A_1376	NW_004520460.1	scaffold6927	1376	TT	AA	AA	INTERGENIC			
SNP_115894_A_2550	NW_004520460.1	scaffold6927	2550	AA	TT	TT	INTERGENIC			
SNP_115895_A_2650	NW_004520460.1	scaffold6927	2650	CC	TT	TT	INTERGENIC			
SNP_115896_A_1882	NW_004520464.1	scaffold6934	1882	GG	TT	TT	INTERGENIC			
SNP_115897_A_1890	NW_004520464.1	scaffold6934	1890	GG	TT	TT	INTERGENIC			
SNP_115898_A_1916	NW_004520464.1	scaffold6934	1916	AA	GG	GG	INTERGENIC			
SNP_115899_A_2096	NW_004520464.1	scaffold6934	2096	CC	AA	AA	INTERGENIC			
SNP_115900_A_2296	NW_004520464.1	scaffold6934	2296	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115901_A_4448	NW_004520464.1	scaffold6934	4448	CC	AA	AA	INTERGENIC			
SNP_115903_A_1027	NW_004520466.1	scaffold6939	1027	GG	AA	AA	INTERGENIC			
SNP_115904_A_1181	NW_004520466.1	scaffold6939	1181	AA	GG	GG	INTERGENIC			
SNP_115905_A_1495	NW_004520466.1	scaffold6939	1495	CC	AA	AA	INTERGENIC			
SNP_115906_A_71	NW_004520468.1	scaffold6941	71	AA	GG	GG	INTERGENIC			
SNP_115907_A_126	NW_004520468.1	scaffold6941	126	TT	CC	CC	INTERGENIC			
SNP_115908_A_189	NW_004520468.1	scaffold6941	189	CC	AA	AA	INTERGENIC			
SNP_115909_A_195	NW_004520468.1	scaffold6941	195	GG	AA	AA	INTERGENIC			
SNP_115910_A_298	NW_004520468.1	scaffold6941	298	TT	AA	AA	INTERGENIC			
SNP_115911_A_300	NW_004520468.1	scaffold6941	300	TT	AA	AA	INTERGENIC			
SNP_115912_A_328	NW_004520468.1	scaffold6941	328	GG	AA	AA	INTERGENIC			
SNP_115913_A_385	NW_004520468.1	scaffold6941	385	AA	TT	TT	INTERGENIC			
SNP_115914_A_455	NW_004520468.1	scaffold6941	455	TT	GG	GG	INTERGENIC			
SNP_115915_A_6534	NW_004520477.1	scaffold6951	6534	CC	AA	AA	INTERGENIC			
SNP_115916_A_494	NW_004520484.1	scaffold6963	494	CC	GG	GG	INTERGENIC			
SNP_115917_A_1889	NW_004520487.1	scaffold6968	1889	TT	CC	CC	INTERGENIC			
SNP_115918_A_1925	NW_004520487.1	scaffold6968	1925	GG	TT	TT	INTERGENIC			
SNP_115920_A_67316	NW_004520496.1	scaffold6980	67316	GG	AA	AA	INTERGENIC			
SNP_115921_A_69363	NW_004520496.1	scaffold6980	69363	AA	GG	GG	INTERGENIC			
SNP_115922_A_69626	NW_004520496.1	scaffold6980	69626	AA	GG	GG	INTERGENIC			
SNP_115923_A_70697	NW_004520496.1	scaffold6980	70697	GG	TT	TT	INTERGENIC			
SNP_115924_A_1230	NW_004520499.1	scaffold6985	1230	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115925_A_1251	NW_004520499.1	scaffold6985	1251	AA	GG	GG	INTERGENIC			
SNP_115926_A_587	NW_004520504.1	scaffold6995	587	AA	TT	TT	INTERGENIC			
SNP_115927_A_920	NW_004520504.1	scaffold6995	920	GG	AA	AA	INTERGENIC			
SNP_115928_A_992	NW_004520504.1	scaffold6995	992	GG	CC	CC	INTERGENIC			
SNP_115929_A_1417	NW_004520506.1	scaffold6999	1417	CC	TT	TT	INTERGENIC			
SNP_115930_A_943	NW_004520511.1	scaffold7007	943	AA	GG	GG	INTERGENIC			
SNP_115931_A_105	NW_004520513.1	scaffold7010	105	AA	CC	CC	INTERGENIC			
SNP_115932_A_487	NW_004520513.1	scaffold7010	487	TT	CC	CC	INTERGENIC			
SNP_115933_A_304	NW_004520517.1	scaffold7017	304	TT	CC	CC	INTERGENIC			
SNP_115934_A_814	NW_004520518.1	scaffold7021	814	TT	CC	CC	INTERGENIC			
SNP_115935_A_844	NW_004520518.1	scaffold7021	844	AA	TT	TT	INTERGENIC			
SNP_115936_A_849	NW_004520518.1	scaffold7021	849	TT	CC	CC	INTERGENIC			
SNP_115937_A_266	NW_004520522.1	scaffold7034	266	TT	CC	CC	INTERGENIC			
SNP_115938_A_517	NW_004520522.1	scaffold7034	517	CC	GG	GG	INTERGENIC			
SNP_115939_A_608	NW_004520522.1	scaffold7034	608	TT	CC	CC	INTERGENIC			
SNP_115941_A_35	NW_004520528.1	scaffold7041	35	AA	GG	GG	INTERGENIC			
SNP_115942_A_64	NW_004520528.1	scaffold7041	64	TT	AA	AA	INTERGENIC			
SNP_115943_A_65	NW_004520528.1	scaffold7041	65	TT	GG	GG	INTERGENIC			
SNP_115944_A_79	NW_004520528.1	scaffold7041	79	TT	CC	CC	INTERGENIC			
SNP_115945_A_95	NW_004520528.1	scaffold7041	95	AA	GG	GG	INTERGENIC			
SNP_115946_A_183	NW_004520528.1	scaffold7041	183	GG	TT	TT	INTERGENIC			
SNP_115947_A_185	NW_004520528.1	scaffold7041	185	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115948_A_186	NW_004520528.1	scaffold7041	186	GG	AA	AA	INTERGENIC			
SNP_115949_A_808	NW_004520528.1	scaffold7041	808	AA	TT	TT	INTERGENIC			
SNP_115950_A_1019	NW_004520528.1	scaffold7041	1019	CC	TT	TT	INTERGENIC			
SNP_115951_A_1039	NW_004520528.1	scaffold7041	1039	TT	AA	AA	INTERGENIC			
SNP_115952_A_1064	NW_004520528.1	scaffold7041	1064	GG	TT	TT	INTERGENIC			
SNP_115953_A_652	NW_004520535.1	scaffold7055	652	TT	AA	AA	INTERGENIC			
SNP_115954_A_674	NW_004520535.1	scaffold7055	674	TT	GG	GG	INTERGENIC			
SNP_115955_A_707	NW_004520535.1	scaffold7055	707	TT	GG	GG	INTERGENIC			
SNP_115956_A_1288	NW_004520536.1	scaffold7058	1288	AA	GG	GG	INTERGENIC			
SNP_115957_A_440	NW_004520537.1	scaffold7059	440	CC	TT	TT	INTERGENIC			
SNP_115958_A_794	NW_004520537.1	scaffold7059	794	TT	GG	GG	INTERGENIC			
SNP_115959_A_808	NW_004520537.1	scaffold7059	808	TT	GG	GG	INTERGENIC			
SNP_115960_A_1052	NW_004520537.1	scaffold7059	1052	GG	AA	AA	INTERGENIC			
SNP_115961_A_1288	NW_004520537.1	scaffold7059	1288	GG	AA	AA	INTERGENIC			
SNP_115962_A_1323	NW_004520537.1	scaffold7059	1323	AA	GG	GG	INTERGENIC			
SNP_115963_A_256	NW_004520538.1	scaffold7060	256	AA	GG	GG	INTERGENIC			
SNP_115965_A_539	NW_004520538.1	scaffold7060	539	AA	CC	CC	INTERGENIC			
SNP_115968_A_609	NW_004520538.1	scaffold7060	609	CC	TT	TT	INTERGENIC			
SNP_115969_A_610	NW_004520538.1	scaffold7060	610	GG	AA	AA	INTERGENIC			
SNP_115970_A_947	NW_004520540.1	scaffold7067	947	TT	CC	CC	INTERGENIC			
SNP_115971_A_949	NW_004520540.1	scaffold7067	949	TT	CC	CC	INTERGENIC			
SNP_115973_A_951	NW_004520540.1	scaffold7067	951	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115974_A_952	NW_004520540.1	scaffold7067	952	GG	AA	AA	INTERGENIC			
SNP_115975_A_1029	NW_004520545.1	scaffold7075	1029	AA	GG	GG	INTERGENIC			
SNP_115976_A_2331	NW_004520548.1	scaffold7081	2331	GG	TT	TT	INTERGENIC			
SNP_115977_A_2423	NW_004520548.1	scaffold7081	2423	GG	TT	TT	INTERGENIC			
SNP_115978_A_2441	NW_004520548.1	scaffold7081	2441	AA	GG	GG	INTERGENIC			
SNP_115980_A_2465	NW_004520548.1	scaffold7081	2465	GG	TT	TT	INTERGENIC			
SNP_115981_A_2470	NW_004520548.1	scaffold7081	2470	TT	CC	CC	INTERGENIC			
SNP_115982_A_2473	NW_004520548.1	scaffold7081	2473	TT	AA	AA	INTERGENIC			
SNP_115983_A_2542	NW_004520548.1	scaffold7081	2542	CC	TT	TT	INTERGENIC			
SNP_115985_A_2567	NW_004520548.1	scaffold7081	2567	AA	GG	GG	INTERGENIC			
SNP_115986_A_2589	NW_004520548.1	scaffold7081	2589	CC	TT	TT	INTERGENIC			
SNP_115987_A_2657	NW_004520548.1	scaffold7081	2657	TT	GG	GG	INTERGENIC			
SNP_115988_A_2695	NW_004520548.1	scaffold7081	2695	TT	CC	CC	INTERGENIC			
SNP_115989_A_2720	NW_004520548.1	scaffold7081	2720	TT	GG	GG	INTERGENIC			
SNP_115991_A_359	NW_004520549.1	scaffold7082	359	TT	CC	CC	INTERGENIC			
SNP_115992_A_415	NW_004520549.1	scaffold7082	415	TT	CC	CC	INTERGENIC			
SNP_115993_A_512	NW_004520549.1	scaffold7082	512	AA	CC	CC	INTERGENIC			
SNP_115994_A_673	NW_004520549.1	scaffold7082	673	AA	GG	GG	INTERGENIC			
SNP_115995_A_734	NW_004520549.1	scaffold7082	734	AA	CC	CC	INTERGENIC			
SNP_115996_A_775	NW_004520549.1	scaffold7082	775	GG	AA	AA	INTERGENIC			
SNP_115997_A_807	NW_004520549.1	scaffold7082	807	AA	GG	GG	INTERGENIC			
SNP_115998_A_597	NW_004520555.1	scaffold7091	597	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_115999_A_916	NW_004520555.1	scaffold7091	916	AA	GG	GG	INTERGENIC			
SNP_116000_A_1022	NW_004520555.1	scaffold7091	1022	TT	CC	CC	INTERGENIC			
SNP_116001_A_1143	NW_004520555.1	scaffold7091	1143	TT	CC	CC	INTERGENIC			
SNP_116002_A_1184	NW_004520555.1	scaffold7091	1184	GG	AA	AA	INTERGENIC			
SNP_116003_A_1185	NW_004520555.1	scaffold7091	1185	AA	TT	TT	INTERGENIC			
SNP_116004_A_1242	NW_004520555.1	scaffold7091	1242	AA	GG	GG	INTERGENIC			
SNP_116005_A_1271	NW_004520555.1	scaffold7091	1271	GG	AA	AA	INTERGENIC			
SNP_116006_A_1347	NW_004520555.1	scaffold7091	1347	GG	CC	CC	INTERGENIC			
SNP_116007_A_1382	NW_004520555.1	scaffold7091	1382	TT	GG	GG	INTERGENIC			
SNP_116008_A_1581	NW_004520555.1	scaffold7091	1581	GG	TT	TT	INTERGENIC			
SNP_116009_A_165	NW_004520558.1	scaffold7095	165	TT	CC	CC	INTERGENIC			
SNP_116010_A_4728	NW_004520558.1	scaffold7095	4728	AA	CC	CC	INTERGENIC			
SNP_116011_A_5048	NW_004520558.1	scaffold7095	5048	AA	CC	CC	INTERGENIC			
SNP_116012_A_5440	NW_004520558.1	scaffold7095	5440	GG	CC	CC	INTERGENIC			
SNP_116013_A_5510	NW_004520558.1	scaffold7095	5510	AA	CC	CC	INTERGENIC			
SNP_116014_A_5520	NW_004520558.1	scaffold7095	5520	TT	CC	CC	INTERGENIC			
SNP_116015_A_5560	NW_004520558.1	scaffold7095	5560	CC	GG	GG	INTERGENIC			
SNP_116016_A_5605	NW_004520558.1	scaffold7095	5605	GG	AA	AA	INTERGENIC			
SNP_116017_A_5732	NW_004520558.1	scaffold7095	5732	TT	GG	GG	INTERGENIC			
SNP_116018_A_5807	NW_004520558.1	scaffold7095	5807	TT	CC	CC	INTERGENIC			
SNP_116019_A_5854	NW_004520558.1	scaffold7095	5854	GG	AA	AA	INTERGENIC			
SNP_116020_A_83	NW_004520559.1	scaffold7098	83	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116021_A_1017	NW_004520562.1	scaffold7104	1017	TT	CC	CC	INTERGENIC			
SNP_116022_A_1041	NW_004520562.1	scaffold7104	1041	CC	GG	GG	INTERGENIC			
SNP_116023_A_1047	NW_004520562.1	scaffold7104	1047	CC	TT	TT	INTERGENIC			
SNP_116024_A_1053	NW_004520562.1	scaffold7104	1053	GG	TT	TT	INTERGENIC			
SNP_116025_A_1290	NW_004520562.1	scaffold7104	1290	AA	TT	TT	INTERGENIC			
SNP_116026_A_642	NW_004520565.1	scaffold7107	642	GG	AA	AA	INTERGENIC			
SNP_116027_A_11941	NW_004520565.1	scaffold7107	11941	GG	AA	AA	INTERGENIC			
SNP_116028_A_12077	NW_004520565.1	scaffold7107	12077	GG	TT	TT	INTERGENIC			
SNP_116029_A_12375	NW_004520565.1	scaffold7107	12375	AA	TT	TT	INTERGENIC			
SNP_116030_A_12589	NW_004520565.1	scaffold7107	12589	TT	GG	GG	INTERGENIC			
SNP_116031_A_12647	NW_004520565.1	scaffold7107	12647	AA	GG	GG	INTERGENIC			
SNP_116032_A_12681	NW_004520565.1	scaffold7107	12681	CC	TT	TT	INTERGENIC			
SNP_116033_A_12697	NW_004520565.1	scaffold7107	12697	TT	AA	AA	INTERGENIC			
SNP_116034_A_12765	NW_004520565.1	scaffold7107	12765	GG	AA	AA	INTERGENIC			
SNP_116035_A_12805	NW_004520565.1	scaffold7107	12805	AA	GG	GG	INTERGENIC			
SNP_116037_A_12860	NW_004520565.1	scaffold7107	12860	CC	TT	TT	INTERGENIC			
SNP_116038_A_13256	NW_004520565.1	scaffold7107	13256	AA	GG	GG	INTERGENIC			
SNP_116039_A_13266	NW_004520565.1	scaffold7107	13266	TT	CC	CC	INTERGENIC			
SNP_116040_A_13299	NW_004520565.1	scaffold7107	13299	CC	GG	GG	INTERGENIC			
SNP_116042_A_13483	NW_004520565.1	scaffold7107	13483	GG	AA	AA	INTERGENIC			
SNP_116043_A_13978	NW_004520565.1	scaffold7107	13978	AA	GG	GG	INTERGENIC			
SNP_116044_A_14298	NW_004520565.1	scaffold7107	14298	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116045_A_14314	NW_004520565.1	scaffold7107	14314	CC	AA	AA	INTERGENIC			
SNP_116047_A_14849	NW_004520565.1	scaffold7107	14849	GG	TT	TT	INTERGENIC			
SNP_116048_A_14926	NW_004520565.1	scaffold7107	14926	GG	AA	AA	INTERGENIC			
SNP_116050_A_16166	NW_004520565.1	scaffold7107	16166	GG	AA	AA	INTERGENIC			
SNP_116051_A_16188	NW_004520565.1	scaffold7107	16188	CC	TT	TT	INTERGENIC			
SNP_116052_A_16246	NW_004520565.1	scaffold7107	16246	AA	TT	TT	INTERGENIC			
SNP_116053_A_16292	NW_004520565.1	scaffold7107	16292	CC	TT	TT	INTERGENIC			
SNP_116054_A_16299	NW_004520565.1	scaffold7107	16299	GG	CC	CC	INTERGENIC			
SNP_116055_A_16340	NW_004520565.1	scaffold7107	16340	CC	TT	TT	INTERGENIC			
SNP_116058_A_18181	NW_004520565.1	scaffold7107	18181	GG	AA	AA	INTERGENIC			
SNP_116059_A_20314	NW_004520565.1	scaffold7107	20314	AA	GG	GG	INTERGENIC			
SNP_116060_A_20329	NW_004520565.1	scaffold7107	20329	GG	AA	AA	INTERGENIC			
SNP_116061_A_20332	NW_004520565.1	scaffold7107	20332	TT	CC	CC	INTERGENIC			
SNP_116062_A_20374	NW_004520565.1	scaffold7107	20374	CC	TT	TT	INTERGENIC			
SNP_116063_A_22161	NW_004520565.1	scaffold7107	22161	TT	CC	CC	INTERGENIC			
SNP_116064_A_1042	NW_004520566.1	scaffold7108	1042	TT	AA	AA	INTERGENIC			
SNP_116065_A_2289	NW_004520566.1	scaffold7108	2289	AA	TT	TT	INTERGENIC			
SNP_116066_A_2293	NW_004520566.1	scaffold7108	2293	AA	GG	GG	INTERGENIC			
SNP_116067_A_5452	NW_004520566.1	scaffold7108	5452	TT	GG	GG	INTERGENIC			
SNP_116068_A_5490	NW_004520566.1	scaffold7108	5490	TT	AA	AA	INTERGENIC			
SNP_116069_A_5691	NW_004520566.1	scaffold7108	5691	CC	TT	TT	INTERGENIC			
SNP_116070_A_5918	NW_004520566.1	scaffold7108	5918	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116071_A_6138	NW_004520566.1	scaffold7108	6138	GG	CC	CC	INTERGENIC			
SNP_116072_A_1281	NW_004520567.1	scaffold7109	1281	AA	TT	TT	INTERGENIC			
SNP_116073_A_1749	NW_004520567.1	scaffold7109	1749	GG	AA	AA	INTERGENIC			
SNP_116074_A_2632	NW_004520567.1	scaffold7109	2632	AA	GG	GG	INTERGENIC			
SNP_116076_A_2699	NW_004520567.1	scaffold7109	2699	TT	CC	CC	INTERGENIC			
SNP_116077_A_646	NW_004520569.1	scaffold7111	646	AA	CC	CC	INTERGENIC			
SNP_116078_A_1215	NW_004520572.1	scaffold7114	1215	TT	CC	CC	INTERGENIC			
SNP_116079_A_741	NW_004520585.1	scaffold7134	741	AA	CC	CC	INTERGENIC			
SNP_116080_A_457	NW_004520592.1	scaffold7148	457	AA	GG	GG	INTERGENIC			
SNP_116081_A_493	NW_004520592.1	scaffold7148	493	CC	AA	AA	INTERGENIC			
SNP_116082_A_534	NW_004520592.1	scaffold7148	534	CC	TT	TT	INTERGENIC			
SNP_116083_A_981	NW_004520592.1	scaffold7148	981	CC	AA	AA	INTERGENIC			
SNP_116084_A_1022	NW_004520592.1	scaffold7148	1022	TT	CC	CC	INTERGENIC			
SNP_116085_A_2590	NW_004520592.1	scaffold7148	2590	GG	CC	CC	INTERGENIC			
SNP_116086_A_2739	NW_004520592.1	scaffold7148	2739	AA	GG	GG	INTERGENIC			
SNP_116087_A_2783	NW_004520592.1	scaffold7148	2783	TT	CC	CC	INTERGENIC			
SNP_116088_A_3232	NW_004520592.1	scaffold7148	3232	CC	TT	TT	INTERGENIC			
SNP_116089_A_3389	NW_004520592.1	scaffold7148	3389	GG	AA	AA	INTERGENIC			
SNP_116090_A_3695	NW_004520592.1	scaffold7148	3695	TT	CC	CC	INTERGENIC			
SNP_116091_A_3935	NW_004520592.1	scaffold7148	3935	AA	GG	GG	INTERGENIC			
SNP_116092_A_3993	NW_004520592.1	scaffold7148	3993	TT	GG	GG	INTERGENIC			
SNP_116093_A_4246	NW_004520592.1	scaffold7148	4246	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116094_A_4254	NW_004520592.1	scaffold7148	4254	TT	CC	CC	INTERGENIC			
SNP_116095_A_7685	NW_004520592.1	scaffold7148	7685	AA	GG	GG	INTERGENIC			
SNP_116096_A_833	NW_004520593.1	scaffold7152	833	TT	GG	GG	INTERGENIC			
SNP_116097_A_898	NW_004520593.1	scaffold7152	898	CC	AA	AA	INTERGENIC			
SNP_116098_A_1029	NW_004520593.1	scaffold7152	1029	TT	CC	CC	INTERGENIC			
SNP_116099_A_343	NW_004520594.1	scaffold7153	343	TT	GG	GG	INTERGENIC			
SNP_116101_A_582	NW_004520595.1	scaffold7154	582	AA	GG	GG	INTERGENIC			
SNP_116102_A_7325	NW_004520595.1	scaffold7154	7325	GG	AA	AA	INTERGENIC			
SNP_116103_A_7432	NW_004520595.1	scaffold7154	7432	GG	AA	AA	INTERGENIC			
SNP_116104_A_7456	NW_004520595.1	scaffold7154	7456	CC	AA	AA	INTERGENIC			
SNP_116105_A_7498	NW_004520595.1	scaffold7154	7498	AA	GG	GG	INTERGENIC			
SNP_116106_A_7511	NW_004520595.1	scaffold7154	7511	CC	TT	TT	INTERGENIC			
SNP_116107_A_7552	NW_004520595.1	scaffold7154	7552	AA	GG	GG	INTERGENIC			
SNP_116108_A_7599	NW_004520595.1	scaffold7154	7599	TT	AA	AA	INTERGENIC			
SNP_116112_A_1111	NW_004520598.1	scaffold7157	1111	TT	AA	AA	INTERGENIC			
SNP_116113_A_1134	NW_004520598.1	scaffold7157	1134	TT	CC	CC	INTERGENIC			
SNP_116115_A_1024	NW_004520610.1	scaffold7174	1024	AA	GG	GG	INTERGENIC			
SNP_116116_A_3751	NW_004520611.1	scaffold7176	3751	GG	AA	AA	INTERGENIC			
SNP_116117_A_3827	NW_004520611.1	scaffold7176	3827	AA	CC	CC	INTERGENIC			
SNP_116118_A_4208	NW_004520611.1	scaffold7176	4208	AA	GG	GG	INTERGENIC			
SNP_116119_A_4316	NW_004520611.1	scaffold7176	4316	TT	CC	CC	INTERGENIC			
SNP_116120_A_63	NW_004520614.1	scaffold7182	63	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116121_A_358	NW_004520615.1	scaffold7183	358	GG	AA	AA	INTERGENIC			
SNP_116122_A_646	NW_004520619.1	scaffold7187	646	GG	CC	CC	INTERGENIC			
SNP_116123_A_801	NW_004520619.1	scaffold7187	801	TT	GG	GG	INTERGENIC			
SNP_116124_A_976	NW_004520619.1	scaffold7187	976	TT	GG	GG	INTERGENIC			
SNP_116125_A_991	NW_004520619.1	scaffold7187	991	AA	TT	TT	INTERGENIC			
SNP_116126_A_1044	NW_004520619.1	scaffold7187	1044	CC	TT	TT	INTERGENIC			
SNP_116127_A_338	NW_004520625.1	scaffold7196	338	AA	CC	CC	INTERGENIC			
SNP_116128_A_374	NW_004520625.1	scaffold7196	374	GG	TT	TT	INTERGENIC			
SNP_116129_A_560	NW_004520625.1	scaffold7196	560	CC	TT	TT	INTERGENIC			
SNP_116130_A_612	NW_004520625.1	scaffold7196	612	GG	AA	AA	INTERGENIC			
SNP_116131_A_732	NW_004520625.1	scaffold7196	732	AA	CC	CC	INTERGENIC			
SNP_116132_A_963	NW_004520631.1	scaffold7203	963	GG	AA	AA	INTERGENIC			
SNP_116133_A_968	NW_004520631.1	scaffold7203	968	TT	AA	AA	INTERGENIC			
SNP_116134_A_1914	NW_004520634.1	scaffold7210	1914	GG	TT	TT	INTERGENIC			
SNP_116135_A_2033	NW_004520634.1	scaffold7210	2033	TT	AA	AA	INTERGENIC			
SNP_116136_A_6997	NW_004520634.1	scaffold7210	6997	TT	CC	CC	INTERGENIC			
SNP_116137_A_7032	NW_004520634.1	scaffold7210	7032	AA	GG	GG	INTERGENIC			
SNP_116139_A_7318	NW_004520634.1	scaffold7210	7318	CC	TT	TT	INTERGENIC			
SNP_116141_A_7727	NW_004520634.1	scaffold7210	7727	GG	CC	CC	INTERGENIC			
SNP_116142_A_7749	NW_004520634.1	scaffold7210	7749	GG	AA	AA	INTERGENIC			
SNP_116143_A_7802	NW_004520634.1	scaffold7210	7802	TT	GG	GG	INTERGENIC			
SNP_116144_A_7854	NW_004520634.1	scaffold7210	7854	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116145_A_131	NW_004520636.1	scaffold7216	131	AA	CC	CC	INTERGENIC			
SNP_116146_A_148	NW_004520636.1	scaffold7216	148	AA	GG	GG	INTERGENIC			
SNP_116147_A_200	NW_004520636.1	scaffold7216	200	AA	GG	GG	INTERGENIC			
SNP_116148_A_226	NW_004520636.1	scaffold7216	226	TT	AA	AA	INTERGENIC			
SNP_116149_A_229	NW_004520636.1	scaffold7216	229	AA	GG	GG	INTERGENIC			
SNP_116150_A_283	NW_004520636.1	scaffold7216	283	AA	GG	GG	INTERGENIC			
SNP_116151_A_518	NW_004520636.1	scaffold7216	518	CC	AA	AA	INTERGENIC			
SNP_116152_A_2829	NW_004520636.1	scaffold7216	2829	AA	CC	CC	INTERGENIC			
SNP_116153_A_2948	NW_004520636.1	scaffold7216	2948	AA	TT	TT	INTERGENIC			
SNP_116154_A_366	NW_004520645.1	scaffold7229	366	TT	AA	AA	INTERGENIC			
SNP_116155_A_444	NW_004520653.1	scaffold7245	444	AA	CC	CC	INTERGENIC			
SNP_116156_A_655	NW_004520653.1	scaffold7245	655	AA	GG	GG	INTERGENIC			
SNP_116157_A_755	NW_004520653.1	scaffold7245	755	CC	TT	TT	INTERGENIC			
SNP_116158_A_1337	NW_004520656.1	scaffold7249	1337	TT	GG	GG	INTERGENIC			
SNP_116159_A_1354	NW_004520656.1	scaffold7249	1354	GG	AA	AA	INTERGENIC			
SNP_116160_A_1391	NW_004520656.1	scaffold7249	1391	AA	CC	CC	INTERGENIC			
SNP_116161_A_1404	NW_004520656.1	scaffold7249	1404	CC	TT	TT	INTERGENIC			
SNP_116162_A_547	NW_004520661.1	scaffold7254	547	CC	AA	AA	INTERGENIC			
SNP_116163_A_548	NW_004520661.1	scaffold7254	548	TT	CC	CC	INTERGENIC			
SNP_116164_A_781	NW_004520661.1	scaffold7254	781	AA	GG	GG	INTERGENIC			
SNP_116165_A_649	NW_004520662.1	scaffold7255	649	CC	TT	TT	INTERGENIC			
SNP_116166_A_4762	NW_004520668.1	scaffold7267	4762	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116168_A_4844	NW_004520668.1	scaffold7267	4844	TT	CC	CC	INTERGENIC			
SNP_116169_A_5006	NW_004520668.1	scaffold7267	5006	AA	GG	GG	INTERGENIC			
SNP_116170_A_5010	NW_004520668.1	scaffold7267	5010	TT	AA	AA	INTERGENIC			
SNP_116171_A_5012	NW_004520668.1	scaffold7267	5012	TT	CC	CC	INTERGENIC			
SNP_116172_A_5024	NW_004520668.1	scaffold7267	5024	CC	GG	GG	INTERGENIC			
SNP_116173_A_5054	NW_004520668.1	scaffold7267	5054	GG	TT	TT	INTERGENIC			
SNP_116174_A_525	NW_004520670.1	scaffold7269	525	TT	CC	CC	INTERGENIC			
SNP_116175_A_579	NW_004520670.1	scaffold7269	579	AA	CC	CC	INTERGENIC			
SNP_116176_A_640	NW_004520670.1	scaffold7269	640	AA	GG	GG	INTERGENIC			
SNP_116177_A_660	NW_004520670.1	scaffold7269	660	AA	TT	TT	INTERGENIC			
SNP_116178_A_809	NW_004520670.1	scaffold7269	809	CC	TT	TT	INTERGENIC			
SNP_116179_A_825	NW_004520670.1	scaffold7269	825	GG	AA	AA	INTERGENIC			
SNP_116180_A_64	NW_004520671.1	scaffold7272	64	AA	CC	CC	INTERGENIC			
SNP_116181_A_127	NW_004520671.1	scaffold7272	127	TT	GG	GG	INTERGENIC			
SNP_116183_A_449	NW_004520675.1	scaffold7280	449	AA	TT	TT	INTERGENIC			
SNP_116184_A_458	NW_004520675.1	scaffold7280	458	GG	AA	AA	INTERGENIC			
SNP_116185_A_1583	NW_004520675.1	scaffold7280	1583	AA	TT	TT	INTERGENIC			
SNP_116186_A_1590	NW_004520675.1	scaffold7280	1590	GG	AA	AA	INTERGENIC			
SNP_116188_A_11844	NW_004520678.1	scaffold7293	11844	CC	AA	AA	INTERGENIC			
SNP_116189_A_11901	NW_004520678.1	scaffold7293	11901	CC	TT	TT	INTERGENIC			
SNP_116190_A_11930	NW_004520678.1	scaffold7293	11930	GG	TT	TT	INTERGENIC			
SNP_116191_A_12944	NW_004520678.1	scaffold7293	12944	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116193_A_13252	NW_004520678.1	scaffold7293	13252	GG	TT	TT	INTERGENIC			
SNP_116194_A_13280	NW_004520678.1	scaffold7293	13280	AA	TT	TT	INTERGENIC			
SNP_116195_A_13305	NW_004520678.1	scaffold7293	13305	CC	TT	TT	INTERGENIC			
SNP_116196_A_13351	NW_004520678.1	scaffold7293	13351	TT	CC	CC	INTERGENIC			
SNP_116197_A_13406	NW_004520678.1	scaffold7293	13406	AA	GG	GG	INTERGENIC			
SNP_116198_A_13442	NW_004520678.1	scaffold7293	13442	AA	GG	GG	INTERGENIC			
SNP_116199_A_13500	NW_004520678.1	scaffold7293	13500	GG	AA	AA	INTERGENIC			
SNP_116200_A_13760	NW_004520678.1	scaffold7293	13760	CC	GG	GG	INTERGENIC			
SNP_116201_A_13764	NW_004520678.1	scaffold7293	13764	CC	TT	TT	INTERGENIC			
SNP_116202_A_13790	NW_004520678.1	scaffold7293	13790	CC	TT	TT	INTERGENIC			
SNP_116203_A_13885	NW_004520678.1	scaffold7293	13885	TT	CC	CC	INTERGENIC			
SNP_116204_A_13935	NW_004520678.1	scaffold7293	13935	AA	GG	GG	INTERGENIC			
SNP_116205_A_13993	NW_004520678.1	scaffold7293	13993	AA	TT	TT	INTERGENIC			
SNP_116206_A_14006	NW_004520678.1	scaffold7293	14006	GG	TT	TT	INTERGENIC			
SNP_116207_A_14058	NW_004520678.1	scaffold7293	14058	TT	CC	CC	INTERGENIC			
SNP_116208_A_14085	NW_004520678.1	scaffold7293	14085	GG	AA	AA	INTERGENIC			
SNP_116209_A_14128	NW_004520678.1	scaffold7293	14128	GG	TT	TT	INTERGENIC			
SNP_116210_A_14161	NW_004520678.1	scaffold7293	14161	TT	AA	AA	INTERGENIC			
SNP_116211_A_14163	NW_004520678.1	scaffold7293	14163	AA	GG	GG	INTERGENIC			
SNP_116212_A_14234	NW_004520678.1	scaffold7293	14234	TT	CC	CC	INTERGENIC			
SNP_116213_A_14242	NW_004520678.1	scaffold7293	14242	AA	GG	GG	INTERGENIC			
SNP_116214_A_14244	NW_004520678.1	scaffold7293	14244	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116215_A_14262	NW_004520678.1	scaffold7293	14262	AA	TT	TT	INTERGENIC			
SNP_116216_A_14342	NW_004520678.1	scaffold7293	14342	CC	GG	GG	INTERGENIC			
SNP_116217_A_14385	NW_004520678.1	scaffold7293	14385	CC	TT	TT	INTERGENIC			
SNP_116218_A_14401	NW_004520678.1	scaffold7293	14401	AA	GG	GG	INTERGENIC			
SNP_116219_A_14498	NW_004520678.1	scaffold7293	14498	GG	AA	AA	INTERGENIC			
SNP_116220_A_14502	NW_004520678.1	scaffold7293	14502	AA	TT	TT	INTERGENIC			
SNP_116221_A_14507	NW_004520678.1	scaffold7293	14507	GG	AA	AA	INTERGENIC			
SNP_116222_A_14530	NW_004520678.1	scaffold7293	14530	CC	GG	GG	INTERGENIC			
SNP_116223_A_14556	NW_004520678.1	scaffold7293	14556	TT	CC	CC	INTERGENIC			
SNP_116224_A_14660	NW_004520678.1	scaffold7293	14660	GG	AA	AA	INTERGENIC			
SNP_116225_A_14685	NW_004520678.1	scaffold7293	14685	CC	GG	GG	INTERGENIC			
SNP_116226_A_14707	NW_004520678.1	scaffold7293	14707	TT	CC	CC	INTERGENIC			
SNP_116227_A_14758	NW_004520678.1	scaffold7293	14758	TT	CC	CC	INTERGENIC			
SNP_116228_A_14790	NW_004520678.1	scaffold7293	14790	TT	GG	GG	INTERGENIC			
SNP_116229_A_14816	NW_004520678.1	scaffold7293	14816	TT	CC	CC	INTERGENIC			
SNP_116230_A_14860	NW_004520678.1	scaffold7293	14860	TT	GG	GG	INTERGENIC			
SNP_116231_A_14924	NW_004520678.1	scaffold7293	14924	GG	AA	AA	INTERGENIC			
SNP_116232_A_14948	NW_004520678.1	scaffold7293	14948	AA	GG	GG	INTERGENIC			
SNP_116233_A_14961	NW_004520678.1	scaffold7293	14961	GG	AA	AA	INTERGENIC			
SNP_116234_A_14977	NW_004520678.1	scaffold7293	14977	CC	TT	TT	INTERGENIC			
SNP_116235_A_14992	NW_004520678.1	scaffold7293	14992	GG	AA	AA	INTERGENIC			
SNP_116236_A_15017	NW_004520678.1	scaffold7293	15017	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116237_A_15203	NW_004520678.1	scaffold7293	15203	CC	TT	TT	INTERGENIC			
SNP_116238_A_15221	NW_004520678.1	scaffold7293	15221	TT	AA	AA	INTERGENIC			
SNP_116239_A_15234	NW_004520678.1	scaffold7293	15234	TT	GG	GG	INTERGENIC			
SNP_116240_A_15253	NW_004520678.1	scaffold7293	15253	AA	CC	CC	INTERGENIC			
SNP_116241_A_15359	NW_004520678.1	scaffold7293	15359	CC	AA	AA	INTERGENIC			
SNP_116242_A_15423	NW_004520678.1	scaffold7293	15423	GG	AA	AA	INTERGENIC			
SNP_116244_A_15584	NW_004520678.1	scaffold7293	15584	CC	TT	TT	INTERGENIC			
SNP_116245_A_15684	NW_004520678.1	scaffold7293	15684	CC	AA	AA	INTERGENIC			
SNP_116246_A_15704	NW_004520678.1	scaffold7293	15704	GG	AA	AA	INTERGENIC			
SNP_116247_A_15812	NW_004520678.1	scaffold7293	15812	AA	GG	GG	INTERGENIC			
SNP_116248_A_15944	NW_004520678.1	scaffold7293	15944	CC	TT	TT	INTERGENIC			
SNP_116249_A_15956	NW_004520678.1	scaffold7293	15956	CC	TT	TT	INTERGENIC			
SNP_116250_A_16264	NW_004520678.1	scaffold7293	16264	TT	AA	AA	INTERGENIC			
SNP_116251_A_19499	NW_004520678.1	scaffold7293	19499	GG	AA	AA	INTERGENIC			
SNP_116252_A_19545	NW_004520678.1	scaffold7293	19545	TT	AA	AA	INTERGENIC			
SNP_116253_A_19616	NW_004520678.1	scaffold7293	19616	AA	GG	GG	INTERGENIC			
SNP_116254_A_19689	NW_004520678.1	scaffold7293	19689	TT	GG	GG	INTERGENIC			
SNP_116255_A_19719	NW_004520678.1	scaffold7293	19719	AA	GG	GG	INTERGENIC			
SNP_116256_A_19731	NW_004520678.1	scaffold7293	19731	AA	GG	GG	INTERGENIC			
SNP_116257_A_19775	NW_004520678.1	scaffold7293	19775	CC	TT	TT	INTERGENIC			
SNP_116258_A_19837	NW_004520678.1	scaffold7293	19837	GG	CC	CC	INTERGENIC			
SNP_116259_A_19843	NW_004520678.1	scaffold7293	19843	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116260_A_20075	NW_004520678.1	scaffold7293	20075	CC	AA	AA	INTERGENIC			
SNP_116261_A_20188	NW_004520678.1	scaffold7293	20188	CC	TT	TT	INTERGENIC			
SNP_116263_A_20222	NW_004520678.1	scaffold7293	20222	CC	TT	TT	INTERGENIC			
SNP_116264_A_20227	NW_004520678.1	scaffold7293	20227	TT	GG	GG	INTERGENIC			
SNP_116265_A_20294	NW_004520678.1	scaffold7293	20294	TT	AA	AA	INTERGENIC			
SNP_116266_A_20460	NW_004520678.1	scaffold7293	20460	AA	TT	TT	INTERGENIC			
SNP_116267_A_20535	NW_004520678.1	scaffold7293	20535	CC	GG	GG	INTERGENIC			
SNP_116268_A_20615	NW_004520678.1	scaffold7293	20615	TT	CC	CC	INTERGENIC			
SNP_116269_A_20689	NW_004520678.1	scaffold7293	20689	AA	GG	GG	INTERGENIC			
SNP_116271_A_21363	NW_004520678.1	scaffold7293	21363	TT	CC	CC	INTERGENIC			
SNP_116272_A_21444	NW_004520678.1	scaffold7293	21444	CC	TT	TT	INTERGENIC			
SNP_116273_A_21445	NW_004520678.1	scaffold7293	21445	GG	AA	AA	INTERGENIC			
SNP_116274_A_21523	NW_004520678.1	scaffold7293	21523	GG	AA	AA	INTERGENIC			
SNP_116275_A_21589	NW_004520678.1	scaffold7293	21589	TT	GG	GG	INTERGENIC			
SNP_116276_A_21611	NW_004520678.1	scaffold7293	21611	CC	TT	TT	INTERGENIC			
SNP_116277_A_21657	NW_004520678.1	scaffold7293	21657	CC	AA	AA	INTERGENIC			
SNP_116278_A_21717	NW_004520678.1	scaffold7293	21717	TT	CC	CC	INTERGENIC			
SNP_116279_A_21744	NW_004520678.1	scaffold7293	21744	TT	CC	CC	INTERGENIC			
SNP_116280_A_21833	NW_004520678.1	scaffold7293	21833	CC	TT	TT	INTERGENIC			
SNP_116281_A_22243	NW_004520678.1	scaffold7293	22243	CC	AA	AA	INTERGENIC			
SNP_116282_A_22311	NW_004520678.1	scaffold7293	22311	CC	AA	AA	INTERGENIC			
SNP_116283_A_387	NW_004520680.1	scaffold7295	387	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116284_A_414	NW_004520680.1	scaffold7295	414	TT	GG	GG	INTERGENIC			
SNP_116286_A_865	NW_004520682.1	scaffold7299	865	GG	AA	AA	INTERGENIC			
SNP_116288_A_1362	NW_004520684.1	scaffold7302	1362	AA	CC	CC	INTERGENIC			
SNP_116289_A_1371	NW_004520684.1	scaffold7302	1371	AA	CC	CC	INTERGENIC			
SNP_116291_A_1343	NW_004520689.1	scaffold7313	1343	CC	AA	AA	INTERGENIC			
SNP_116292_A_1278	NW_004520690.1	scaffold7314	1278	CC	TT	TT	INTERGENIC			
SNP_116293_A_1297	NW_004520690.1	scaffold7314	1297	CC	TT	TT	INTERGENIC			
SNP_116294_A_1375	NW_004520690.1	scaffold7314	1375	GG	AA	AA	INTERGENIC			
SNP_116295_A_1414	NW_004520690.1	scaffold7314	1414	GG	AA	AA	INTERGENIC			
SNP_116296_A_1507	NW_004520690.1	scaffold7314	1507	GG	TT	TT	INTERGENIC			
SNP_116297_A_1572	NW_004520690.1	scaffold7314	1572	TT	GG	GG	INTERGENIC			
SNP_116298_A_1723	NW_004520690.1	scaffold7314	1723	CC	TT	TT	INTERGENIC			
SNP_116299_A_1729	NW_004520690.1	scaffold7314	1729	CC	TT	TT	INTERGENIC			
SNP_116300_A_1804	NW_004520690.1	scaffold7314	1804	CC	TT	TT	INTERGENIC			
SNP_116301_A_1856	NW_004520690.1	scaffold7314	1856	TT	AA	AA	INTERGENIC			
SNP_116302_A_1869	NW_004520690.1	scaffold7314	1869	GG	TT	TT	INTERGENIC			
SNP_116303_A_1880	NW_004520690.1	scaffold7314	1880	GG	AA	AA	INTERGENIC			
SNP_116304_A_1882	NW_004520690.1	scaffold7314	1882	AA	GG	GG	INTERGENIC			
SNP_116305_A_409	NW_004520692.1	scaffold7316	409	AA	GG	GG	INTERGENIC			
SNP_116306_A_626	NW_004520692.1	scaffold7316	626	CC	TT	TT	INTERGENIC			
SNP_116307_A_719	NW_004520692.1	scaffold7316	719	GG	AA	AA	INTERGENIC			
SNP_116308_A_791	NW_004520692.1	scaffold7316	791	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116309_A_796	NW_004520692.1	scaffold7316	796	AA	CC	CC	INTERGENIC			
SNP_116310_A_857	NW_004520692.1	scaffold7316	857	GG	AA	AA	INTERGENIC			
SNP_116311_A_1102	NW_004520692.1	scaffold7316	1102	TT	CC	CC	INTERGENIC			
SNP_116312_A_1281	NW_004520692.1	scaffold7316	1281	GG	TT	TT	INTERGENIC			
SNP_116313_A_64	NW_004520693.1	scaffold7318	64	TT	GG	GG	INTERGENIC			
SNP_116314_A_80	NW_004520693.1	scaffold7318	80	AA	GG	GG	INTERGENIC			
SNP_116315_A_712	NW_004520698.1	scaffold7327	712	AA	GG	GG	INTERGENIC			
SNP_116316_A_713	NW_004520698.1	scaffold7327	713	CC	GG	GG	INTERGENIC			
SNP_116317_A_8307	NW_004520698.1	scaffold7327	8307	TT	AA	AA	INTERGENIC			
SNP_116318_A_8308	NW_004520698.1	scaffold7327	8308	CC	AA	AA	INTERGENIC			
SNP_116319_A_8330	NW_004520698.1	scaffold7327	8330	TT	CC	CC	INTERGENIC			
SNP_116320_A_8347	NW_004520698.1	scaffold7327	8347	AA	GG	GG	INTERGENIC			
SNP_116321_A_8348	NW_004520698.1	scaffold7327	8348	TT	AA	AA	INTERGENIC			
SNP_116322_A_8380	NW_004520698.1	scaffold7327	8380	TT	AA	AA	INTERGENIC			
SNP_116323_A_1869	NW_004520700.1	scaffold7330	1869	AA	GG	GG	INTERGENIC			
SNP_116324_A_2036	NW_004520700.1	scaffold7330	2036	AA	GG	GG	INTERGENIC			
SNP_116325_A_2170	NW_004520700.1	scaffold7330	2170	CC	TT	TT	INTERGENIC			
SNP_116327_A_2282	NW_004520700.1	scaffold7330	2282	GG	TT	TT	INTERGENIC			
SNP_116328_A_2284	NW_004520700.1	scaffold7330	2284	GG	AA	AA	INTERGENIC			
SNP_116329_A_2298	NW_004520700.1	scaffold7330	2298	TT	GG	GG	INTERGENIC			
SNP_116330_A_2311	NW_004520700.1	scaffold7330	2311	AA	TT	TT	INTERGENIC			
SNP_116331_A_2312	NW_004520700.1	scaffold7330	2312	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_116333_A_81	NW_004520705.1	scaffold7340	81	TT	AA	AA	INTERGENIC		
SNP_116334_A_3538	NW_004520713.1	scaffold7355	3538	TT	CC	CC	INTRON	101491980	uncharacterized LOC101491980
SNP_116335_A_3572	NW_004520713.1	scaffold7355	3572	GG	AA	AA	INTRON	101491980	uncharacterized LOC101491980
SNP_116336_A_6244	NW_004520713.1	scaffold7355	6244	TT	AA	AA	URR	101491980	uncharacterized LOC101491980
SNP_116337_A_6252	NW_004520713.1	scaffold7355	6252	CC	TT	TT	URR	101491980	uncharacterized LOC101491980
SNP_116338_A_15565	NW_004520713.1	scaffold7355	15565	AA	GG	GG	INTERGENIC		
SNP_116339_A_18519	NW_004520713.1	scaffold7355	18519	AA	TT	TT	INTERGENIC		
SNP_116340_A_20192	NW_004520713.1	scaffold7355	20192	GG	AA	AA	INTERGENIC		
SNP_116341_A_21517	NW_004520713.1	scaffold7355	21517	CC	TT	TT	INTERGENIC		
SNP_116342_A_21694	NW_004520713.1	scaffold7355	21694	AA	GG	GG	INTERGENIC		
SNP_116343_A_186	NW_004520715.1	scaffold7363	186	GG	AA	AA	INTERGENIC		
SNP_116346_A_4758	NW_004520716.1	scaffold7364	4758	TT	GG	GG	INTERGENIC		
SNP_116347_A_40	NW_004520726.1	scaffold7377	40	AA	GG	GG	INTERGENIC		
SNP_116348_A_53	NW_004520726.1	scaffold7377	53	CC	TT	TT	INTERGENIC		
SNP_116349_A_64	NW_004520726.1	scaffold7377	64	AA	GG	GG	INTERGENIC		
SNP_116350_A_81	NW_004520726.1	scaffold7377	81	TT	AA	AA	INTERGENIC		
SNP_116351_A_92	NW_004520726.1	scaffold7377	92	AA	GG	GG	INTERGENIC		
SNP_116352_A_110	NW_004520726.1	scaffold7377	110	TT	AA	AA	INTERGENIC		
SNP_116353_A_234	NW_004520726.1	scaffold7377	234	AA	GG	GG	INTERGENIC		
SNP_116354_A_411	NW_004520726.1	scaffold7377	411	TT	GG	GG	INTERGENIC		
SNP_116357_A_637	NW_004520726.1	scaffold7377	637	GG	AA	AA	INTERGENIC		
SNP_116358_A_667	NW_004520726.1	scaffold7377	667	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116359_A_1005	NW_004520726.1	scaffold7377	1005	TT	CC	CC	INTERGENIC			
SNP_116361_A_64	NW_004520729.1	scaffold7380	64	AA	GG	GG	INTERGENIC			
SNP_116363_A_359	NW_004520729.1	scaffold7380	359	AA	TT	TT	INTERGENIC			
SNP_116364_A_3871	NW_004520733.1	scaffold7389	3871	CC	TT	TT	INTERGENIC			
SNP_116365_A_543	NW_004520738.1	scaffold7398	543	CC	TT	TT	INTERGENIC			
SNP_116366_A_668	NW_004520738.1	scaffold7398	668	AA	TT	TT	INTERGENIC			
SNP_116367_A_699	NW_004520738.1	scaffold7398	699	CC	TT	TT	INTERGENIC			
SNP_116369_A_410	NW_004520745.1	scaffold7412	410	TT	CC	CC	INTERGENIC			
SNP_116370_A_808	NW_004520746.1	scaffold7414	808	GG	AA	AA	INTERGENIC			
SNP_116371_A_3924	NW_004520746.1	scaffold7414	3924	AA	GG	GG	INTERGENIC			
SNP_116372_A_1291	NW_004520749.1	scaffold7421	1291	AA	GG	GG	INTERGENIC			
SNP_116373_A_1297	NW_004520749.1	scaffold7421	1297	GG	AA	AA	INTERGENIC			
SNP_116374_A_7338	NW_004520753.1	scaffold7427	7338	AA	GG	GG	INTERGENIC			
SNP_116375_A_7567	NW_004520753.1	scaffold7427	7567	CC	TT	TT	INTERGENIC			
SNP_116376_A_7703	NW_004520753.1	scaffold7427	7703	GG	CC	CC	INTERGENIC			
SNP_116377_A_9558	NW_004520753.1	scaffold7427	9558	GG	AA	AA	INTERGENIC			
SNP_116378_A_70	NW_004520754.1	scaffold7432	70	CC	AA	AA	INTERGENIC			
SNP_116379_A_81	NW_004520754.1	scaffold7432	81	TT	AA	AA	INTERGENIC			
SNP_116380_A_183	NW_004520754.1	scaffold7432	183	AA	CC	CC	INTERGENIC			
SNP_116381_A_737	NW_004520762.1	scaffold7448	737	AA	GG	GG	INTERGENIC			
SNP_116382_A_770	NW_004520762.1	scaffold7448	770	GG	TT	TT	INTERGENIC			
SNP_116383_A_13534	NW_004520762.1	scaffold7448	13534	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116384_A_13536	NW_004520762.1	scaffold7448	13536	GG	AA	AA	INTERGENIC			
SNP_116385_A_13542	NW_004520762.1	scaffold7448	13542	GG	AA	AA	INTERGENIC			
SNP_116387_A_13567	NW_004520762.1	scaffold7448	13567	CC	TT	TT	INTERGENIC			
SNP_116388_A_13725	NW_004520762.1	scaffold7448	13725	GG	AA	AA	INTERGENIC			
SNP_116389_A_13990	NW_004520762.1	scaffold7448	13990	AA	GG	GG	INTERGENIC			
SNP_116390_A_14076	NW_004520762.1	scaffold7448	14076	TT	CC	CC	INTERGENIC			
SNP_116391_A_20671	NW_004520762.1	scaffold7448	20671	AA	GG	GG	INTERGENIC			
SNP_116392_A_20701	NW_004520762.1	scaffold7448	20701	TT	GG	GG	INTERGENIC			
SNP_116393_A_20733	NW_004520762.1	scaffold7448	20733	TT	CC	CC	INTERGENIC			
SNP_116394_A_20830	NW_004520762.1	scaffold7448	20830	TT	CC	CC	INTERGENIC			
SNP_116395_A_20857	NW_004520762.1	scaffold7448	20857	CC	GG	GG	INTERGENIC			
SNP_116396_A_20859	NW_004520762.1	scaffold7448	20859	GG	AA	AA	INTERGENIC			
SNP_116397_A_21156	NW_004520762.1	scaffold7448	21156	GG	AA	AA	INTERGENIC			
SNP_116398_A_21242	NW_004520762.1	scaffold7448	21242	AA	TT	TT	INTERGENIC			
SNP_116399_A_21272	NW_004520762.1	scaffold7448	21272	TT	AA	AA	INTERGENIC			
SNP_116400_A_21307	NW_004520762.1	scaffold7448	21307	GG	CC	CC	INTERGENIC			
SNP_116402_A_21543	NW_004520762.1	scaffold7448	21543	CC	TT	TT	INTERGENIC			
SNP_116403_A_21681	NW_004520762.1	scaffold7448	21681	GG	AA	AA	INTERGENIC			
SNP_116404_A_21745	NW_004520762.1	scaffold7448	21745	CC	TT	TT	INTERGENIC			
SNP_116405_A_21863	NW_004520762.1	scaffold7448	21863	GG	AA	AA	INTERGENIC			
SNP_116406_A_21880	NW_004520762.1	scaffold7448	21880	AA	TT	TT	INTERGENIC			
SNP_116407_A_23086	NW_004520762.1	scaffold7448	23086	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116408_A_23196	NW_004520762.1	scaffold7448	23196	GG	AA	AA	INTERGENIC			
SNP_116409_A_23260	NW_004520762.1	scaffold7448	23260	AA	CC	CC	INTERGENIC			
SNP_116410_A_23293	NW_004520762.1	scaffold7448	23293	TT	CC	CC	INTERGENIC			
SNP_116411_A_23405	NW_004520762.1	scaffold7448	23405	AA	TT	TT	INTERGENIC			
SNP_116412_A_23469	NW_004520762.1	scaffold7448	23469	AA	CC	CC	INTERGENIC			
SNP_116413_A_23573	NW_004520762.1	scaffold7448	23573	CC	TT	TT	INTERGENIC			
SNP_116414_A_23767	NW_004520762.1	scaffold7448	23767	TT	CC	CC	INTERGENIC			
SNP_116415_A_2605	NW_004520765.1	scaffold7452	2605	AA	GG	GG	INTERGENIC			
SNP_116416_A_2906	NW_004520765.1	scaffold7452	2906	GG	CC	CC	INTERGENIC			
SNP_116417_A_3351	NW_004520765.1	scaffold7452	3351	AA	GG	GG	INTERGENIC			
SNP_116418_A_3479	NW_004520765.1	scaffold7452	3479	TT	GG	GG	INTERGENIC			
SNP_116419_A_3483	NW_004520765.1	scaffold7452	3483	AA	TT	TT	INTERGENIC			
SNP_116421_A_1141	NW_004520776.1	scaffold7470	1141	AA	TT	TT	INTERGENIC			
SNP_116422_A_1235	NW_004520776.1	scaffold7470	1235	CC	AA	AA	INTERGENIC			
SNP_116423_A_1262	NW_004520776.1	scaffold7470	1262	AA	GG	GG	INTERGENIC			
SNP_116424_A_1328	NW_004520776.1	scaffold7470	1328	AA	GG	GG	INTERGENIC			
SNP_116425_A_1643	NW_004520776.1	scaffold7470	1643	GG	TT	TT	INTERGENIC			
SNP_116426_A_2022	NW_004520776.1	scaffold7470	2022	TT	CC	CC	INTERGENIC			
SNP_116427_A_2121	NW_004520776.1	scaffold7470	2121	GG	CC	CC	INTERGENIC			
SNP_116428_A_2342	NW_004520776.1	scaffold7470	2342	CC	AA	AA	INTERGENIC			
SNP_116429_A_342	NW_004520778.1	scaffold7473	342	TT	CC	CC	INTERGENIC			
SNP_116430_A_5891	NW_004520780.1	scaffold7475	5891	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_116431_A_5898	NW_004520780.1	scaffold7475	5898	CC	TT	TT	INTERGENIC		
SNP_116432_A_973	NW_004520781.1	scaffold7477	973	CC	TT	TT	DRR	101493095	cytokinin hydroxylase-like
SNP_116433_A_1063	NW_004520781.1	scaffold7477	1063	CC	TT	TT	DRR	101493095	cytokinin hydroxylase-like
SNP_116434_A_1350	NW_004520781.1	scaffold7477	1350	AA	GG	GG	DRR	101493095	cytokinin hydroxylase-like
SNP_116435_A_1439	NW_004520781.1	scaffold7477	1439	CC	TT	TT	NON_SYNONYMOUS_CODING	101493095	cytokinin hydroxylase-like
SNP_116436_A_2062	NW_004520781.1	scaffold7477	2062	TT	CC	CC	INTRON	101493095	cytokinin hydroxylase-like
SNP_116437_A_2130	NW_004520781.1	scaffold7477	2130	GG	TT	TT	INTRON	101493095	cytokinin hydroxylase-like
SNP_116438_A_2151	NW_004520781.1	scaffold7477	2151	CC	AA	AA	INTRON	101493095	cytokinin hydroxylase-like
SNP_116440_A_2402	NW_004520781.1	scaffold7477	2402	TT	CC	CC	INTRON	101493095	cytokinin hydroxylase-like
SNP_116441_A_6372	NW_004520781.1	scaffold7477	6372	AA	GG	GG	INTERGENIC		
SNP_116442_A_6406	NW_004520781.1	scaffold7477	6406	AA	TT	TT	INTERGENIC		
SNP_116443_A_6485	NW_004520781.1	scaffold7477	6485	GG	AA	AA	INTERGENIC		
SNP_116445_A_6912	NW_004520781.1	scaffold7477	6912	TT	CC	CC	INTERGENIC		
SNP_116446_A_1109	NW_004520784.1	scaffold7480	1109	AA	GG	GG	INTERGENIC		
SNP_116447_A_1144	NW_004520784.1	scaffold7480	1144	AA	GG	GG	INTERGENIC		
SNP_116448_A_3458	NW_004520784.1	scaffold7480	3458	CC	AA	AA	INTERGENIC		
SNP_116449_A_504	NW_004520788.1	scaffold7484	504	CC	TT	TT	INTERGENIC		
SNP_116450_A_19641	NW_004520788.1	scaffold7484	19641	GG	AA	AA	INTERGENIC		
SNP_116451_A_19713	NW_004520788.1	scaffold7484	19713	TT	AA	AA	INTERGENIC		
SNP_116452_A_19727	NW_004520788.1	scaffold7484	19727	TT	CC	CC	INTERGENIC		
SNP_116453_A_560	NW_004520791.1	scaffold7489	560	AA	GG	GG	INTERGENIC		
SNP_116454_A_679	NW_004520791.1	scaffold7489	679	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116455_A_860	NW_004520791.1	scaffold7489	860	CC	AA	AA	INTERGENIC			
SNP_116456_A_871	NW_004520791.1	scaffold7489	871	GG	TT	TT	INTERGENIC			
SNP_116457_A_882	NW_004520791.1	scaffold7489	882	CC	TT	TT	INTERGENIC			
SNP_116458_A_889	NW_004520791.1	scaffold7489	889	TT	CC	CC	INTERGENIC			
SNP_116459_A_932	NW_004520791.1	scaffold7489	932	CC	TT	TT	INTERGENIC			
SNP_116460_A_936	NW_004520791.1	scaffold7489	936	AA	GG	GG	INTERGENIC			
SNP_116461_A_1005	NW_004520791.1	scaffold7489	1005	AA	GG	GG	INTERGENIC			
SNP_116462_A_1079	NW_004520791.1	scaffold7489	1079	TT	AA	AA	INTERGENIC			
SNP_116463_A_1168	NW_004520791.1	scaffold7489	1168	GG	TT	TT	INTERGENIC			
SNP_116464_A_1217	NW_004520791.1	scaffold7489	1217	GG	AA	AA	INTERGENIC			
SNP_116465_A_1361	NW_004520791.1	scaffold7489	1361	TT	GG	GG	INTERGENIC			
SNP_116466_A_1457	NW_004520791.1	scaffold7489	1457	CC	GG	GG	INTERGENIC			
SNP_116467_A_1559	NW_004520791.1	scaffold7489	1559	CC	AA	AA	INTERGENIC			
SNP_116468_A_1602	NW_004520791.1	scaffold7489	1602	AA	GG	GG	INTERGENIC			
SNP_116469_A_1619	NW_004520791.1	scaffold7489	1619	AA	TT	TT	INTERGENIC			
SNP_116470_A_1663	NW_004520791.1	scaffold7489	1663	GG	AA	AA	INTERGENIC			
SNP_116471_A_1696	NW_004520791.1	scaffold7489	1696	CC	TT	TT	INTERGENIC			
SNP_116472_A_1758	NW_004520791.1	scaffold7489	1758	CC	GG	GG	INTERGENIC			
SNP_116473_A_1765	NW_004520791.1	scaffold7489	1765	TT	AA	AA	INTERGENIC			
SNP_116474_A_1773	NW_004520791.1	scaffold7489	1773	AA	GG	GG	INTERGENIC			
SNP_116475_A_1788	NW_004520791.1	scaffold7489	1788	GG	AA	AA	INTERGENIC			
SNP_116476_A_472	NW_004520796.1	scaffold7502	472	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116479_A_630	NW_004520796.1	scaffold7502	630	CC	GG	GG	INTERGENIC			
SNP_116480_A_635	NW_004520796.1	scaffold7502	635	TT	AA	AA	INTERGENIC			
SNP_116481_A_654	NW_004520796.1	scaffold7502	654	TT	CC	CC	INTERGENIC			
SNP_116482_A_677	NW_004520796.1	scaffold7502	677	TT	AA	AA	INTERGENIC			
SNP_116483_A_735	NW_004520796.1	scaffold7502	735	CC	TT	TT	INTERGENIC			
SNP_116484_A_864	NW_004520796.1	scaffold7502	864	CC	AA	AA	INTERGENIC			
SNP_116485_A_869	NW_004520796.1	scaffold7502	869	TT	CC	CC	INTERGENIC			
SNP_116486_A_368	NW_004520801.1	scaffold7508	368	AA	TT	TT	INTERGENIC			
SNP_116487_A_371	NW_004520801.1	scaffold7508	371	TT	AA	AA	INTERGENIC			
SNP_116488_A_392	NW_004520801.1	scaffold7508	392	GG	AA	AA	INTERGENIC			
SNP_116489_A_119	NW_004520803.1	scaffold7511	119	TT	CC	CC	INTERGENIC			
SNP_116490_A_154	NW_004520803.1	scaffold7511	154	GG	AA	AA	INTERGENIC			
SNP_116491_A_433	NW_004520803.1	scaffold7511	433	TT	GG	GG	INTERGENIC			
SNP_116492_A_451	NW_004520803.1	scaffold7511	451	GG	AA	AA	INTERGENIC			
SNP_116493_A_1106	NW_004520803.1	scaffold7511	1106	TT	CC	CC	INTERGENIC			
SNP_116494_A_818	NW_004520808.1	scaffold7522	818	CC	TT	TT	INTERGENIC			
SNP_116495_A_1705	NW_004520808.1	scaffold7522	1705	TT	CC	CC	INTERGENIC			
SNP_116496_A_1719	NW_004520808.1	scaffold7522	1719	CC	TT	TT	INTERGENIC			
SNP_116497_A_752	NW_004520812.1	scaffold7528	752	AA	GG	GG	INTERGENIC			
SNP_116498_A_1090	NW_004520812.1	scaffold7528	1090	CC	AA	AA	INTERGENIC			
SNP_116499_A_1092	NW_004520812.1	scaffold7528	1092	TT	CC	CC	INTERGENIC			
SNP_116500_A_1117	NW_004520812.1	scaffold7528	1117	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116501_A_1141	NW_004520812.1	scaffold7528	1141	TT	AA	AA	INTERGENIC			
SNP_116502_A_1686	NW_004520812.1	scaffold7528	1686	AA	TT	TT	INTERGENIC			
SNP_116503_A_7495	NW_004520812.1	scaffold7528	7495	TT	CC	CC	INTERGENIC			
SNP_116504_A_7548	NW_004520812.1	scaffold7528	7548	AA	GG	GG	INTERGENIC			
SNP_116505_A_7824	NW_004520812.1	scaffold7528	7824	GG	TT	TT	INTERGENIC			
SNP_116506_A_7872	NW_004520812.1	scaffold7528	7872	AA	CC	CC	INTERGENIC			
SNP_116507_A_8776	NW_004520812.1	scaffold7528	8776	TT	CC	CC	INTERGENIC			
SNP_116508_A_9325	NW_004520812.1	scaffold7528	9325	TT	GG	GG	INTERGENIC			
SNP_116509_A_9691	NW_004520812.1	scaffold7528	9691	TT	GG	GG	INTERGENIC			
SNP_116510_A_11117	NW_004520812.1	scaffold7528	11117	TT	CC	CC	INTERGENIC			
SNP_116511_A_13686	NW_004520812.1	scaffold7528	13686	AA	TT	TT	INTERGENIC			
SNP_116512_A_13981	NW_004520812.1	scaffold7528	13981	GG	CC	CC	INTERGENIC			
SNP_116513_A_14088	NW_004520812.1	scaffold7528	14088	CC	GG	GG	INTERGENIC			
SNP_116514_A_14144	NW_004520812.1	scaffold7528	14144	CC	TT	TT	INTERGENIC			
SNP_116515_A_14470	NW_004520812.1	scaffold7528	14470	TT	CC	CC	INTERGENIC			
SNP_116516_A_14575	NW_004520812.1	scaffold7528	14575	AA	GG	GG	INTERGENIC			
SNP_116517_A_14816	NW_004520812.1	scaffold7528	14816	GG	CC	CC	INTERGENIC			
SNP_116518_A_14917	NW_004520812.1	scaffold7528	14917	CC	TT	TT	INTERGENIC			
SNP_116519_A_15425	NW_004520812.1	scaffold7528	15425	TT	GG	GG	INTERGENIC			
SNP_116520_A_741	NW_004520813.1	scaffold7529	741	AA	CC	CC	INTERGENIC			
SNP_116521_A_1041	NW_004520813.1	scaffold7529	1041	GG	CC	CC	INTERGENIC			
SNP_116522_A_1075	NW_004520813.1	scaffold7529	1075	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116523_A_401	NW_004520817.1	scaffold7540	401	GG	CC	CC	INTERGENIC			
SNP_116524_A_431	NW_004520817.1	scaffold7540	431	TT	AA	AA	INTERGENIC			
SNP_116525_A_545	NW_004520817.1	scaffold7540	545	GG	AA	AA	INTERGENIC			
SNP_116526_A_1200	NW_004520817.1	scaffold7540	1200	TT	CC	CC	INTERGENIC			
SNP_116527_A_1226	NW_004520817.1	scaffold7540	1226	TT	AA	AA	INTERGENIC			
SNP_116528_A_1277	NW_004520817.1	scaffold7540	1277	GG	AA	AA	INTERGENIC			
SNP_116529_A_1352	NW_004520817.1	scaffold7540	1352	GG	CC	CC	INTERGENIC			
SNP_116530_A_1475	NW_004520817.1	scaffold7540	1475	GG	CC	CC	INTERGENIC			
SNP_116531_A_832	NW_004520819.1	scaffold7542	832	AA	CC	CC	INTERGENIC			
SNP_116532_A_454	NW_004520821.1	scaffold7545	454	TT	AA	AA	INTERGENIC			
SNP_116533_A_1395	NW_004520822.1	scaffold7546	1395	CC	AA	AA	INTERGENIC			
SNP_116534_A_1420	NW_004520822.1	scaffold7546	1420	CC	GG	GG	INTERGENIC			
SNP_116535_A_477	NW_004520824.1	scaffold7551	477	CC	TT	TT	INTERGENIC			
SNP_116536_A_495	NW_004520824.1	scaffold7551	495	GG	TT	TT	INTERGENIC			
SNP_116537_A_713	NW_004520824.1	scaffold7551	713	TT	CC	CC	INTERGENIC			
SNP_116538_A_2120	NW_004520829.1	scaffold7559	2120	TT	AA	AA	INTERGENIC			
SNP_116539_A_1899	NW_004520832.1	scaffold7564	1899	AA	GG	GG	INTERGENIC			
SNP_116540_A_1925	NW_004520832.1	scaffold7564	1925	AA	CC	CC	INTERGENIC			
SNP_116541_A_1987	NW_004520832.1	scaffold7564	1987	CC	TT	TT	INTERGENIC			
SNP_116542_A_2000	NW_004520832.1	scaffold7564	2000	CC	TT	TT	INTERGENIC			
SNP_116543_A_2059	NW_004520832.1	scaffold7564	2059	AA	TT	TT	INTERGENIC			
SNP_116544_A_2083	NW_004520832.1	scaffold7564	2083	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116545_A_2152	NW_004520832.1	scaffold7564	2152	AA	CC	CC	INTERGENIC			
SNP_116546_A_450	NW_004520833.1	scaffold7565	450	TT	CC	CC	INTERGENIC			
SNP_116547_A_646	NW_004520833.1	scaffold7565	646	CC	TT	TT	INTERGENIC			
SNP_116548_A_668	NW_004520833.1	scaffold7565	668	CC	TT	TT	INTERGENIC			
SNP_116549_A_707	NW_004520833.1	scaffold7565	707	GG	CC	CC	INTERGENIC			
SNP_116550_A_1071	NW_004520833.1	scaffold7565	1071	TT	GG	GG	INTERGENIC			
SNP_116551_A_2359	NW_004520833.1	scaffold7565	2359	AA	GG	GG	INTERGENIC			
SNP_116552_A_2589	NW_004520833.1	scaffold7565	2589	TT	AA	AA	INTERGENIC			
SNP_116553_A_3019	NW_004520833.1	scaffold7565	3019	AA	GG	GG	INTERGENIC			
SNP_116554_A_4442	NW_004520833.1	scaffold7565	4442	CC	AA	AA	INTERGENIC			
SNP_116555_A_4443	NW_004520833.1	scaffold7565	4443	GG	AA	AA	INTERGENIC			
SNP_116556_A_4736	NW_004520833.1	scaffold7565	4736	TT	CC	CC	INTERGENIC			
SNP_116557_A_4788	NW_004520833.1	scaffold7565	4788	AA	GG	GG	INTERGENIC			
SNP_116558_A_4814	NW_004520833.1	scaffold7565	4814	TT	CC	CC	INTERGENIC			
SNP_116559_A_4854	NW_004520833.1	scaffold7565	4854	AA	TT	TT	INTERGENIC			
SNP_116560_A_4877	NW_004520833.1	scaffold7565	4877	TT	CC	CC	INTERGENIC			
SNP_116561_A_5050	NW_004520833.1	scaffold7565	5050	GG	AA	AA	INTERGENIC			
SNP_116562_A_5107	NW_004520833.1	scaffold7565	5107	GG	AA	AA	INTERGENIC			
SNP_116563_A_5163	NW_004520833.1	scaffold7565	5163	AA	TT	TT	INTERGENIC			
SNP_116564_A_5334	NW_004520833.1	scaffold7565	5334	GG	AA	AA	INTERGENIC			
SNP_116565_A_469	NW_004520836.1	scaffold7569	469	AA	GG	GG	INTERGENIC			
SNP_116566_A_684	NW_004520836.1	scaffold7569	684	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116567_A_718	NW_004520836.1	scaffold7569	718	TT	GG	GG	INTERGENIC			
SNP_116568_A_729	NW_004520836.1	scaffold7569	729	AA	GG	GG	INTERGENIC			
SNP_116569_A_747	NW_004520836.1	scaffold7569	747	CC	TT	TT	INTERGENIC			
SNP_116570_A_691	NW_004520837.1	scaffold7571	691	CC	TT	TT	INTERGENIC			
SNP_116571_A_325	NW_004520842.1	scaffold7576	325	TT	CC	CC	INTERGENIC			
SNP_116572_A_359	NW_004520842.1	scaffold7576	359	GG	AA	AA	INTERGENIC			
SNP_116573_A_406	NW_004520842.1	scaffold7576	406	GG	AA	AA	INTERGENIC			
SNP_116574_A_514	NW_004520842.1	scaffold7576	514	AA	TT	TT	INTERGENIC			
SNP_116575_A_599	NW_004520842.1	scaffold7576	599	TT	CC	CC	INTERGENIC			
SNP_116576_A_608	NW_004520842.1	scaffold7576	608	AA	GG	GG	INTERGENIC			
SNP_116577_A_732	NW_004520842.1	scaffold7576	732	AA	CC	CC	INTERGENIC			
SNP_116578_A_826	NW_004520842.1	scaffold7576	826	CC	TT	TT	INTERGENIC			
SNP_116580_A_331	NW_004520847.1	scaffold7584	331	AA	GG	GG	INTERGENIC			
SNP_116581_A_353	NW_004520847.1	scaffold7584	353	CC	AA	AA	INTERGENIC			
SNP_116582_A_413	NW_004520847.1	scaffold7584	413	AA	TT	TT	INTERGENIC			
SNP_116583_A_596	NW_004520847.1	scaffold7584	596	CC	GG	GG	INTERGENIC			
SNP_116584_A_764	NW_004520847.1	scaffold7584	764	AA	TT	TT	INTERGENIC			
SNP_116585_A_779	NW_004520847.1	scaffold7584	779	TT	CC	CC	INTERGENIC			
SNP_116587_A_958	NW_004520847.1	scaffold7584	958	TT	GG	GG	INTERGENIC			
SNP_116588_A_1036	NW_004520847.1	scaffold7584	1036	TT	AA	AA	INTERGENIC			
SNP_116589_A_1042	NW_004520847.1	scaffold7584	1042	TT	CC	CC	INTERGENIC			
SNP_116590_A_1059	NW_004520847.1	scaffold7584	1059	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116591_A_172	NW_004520849.1	scaffold7590	172	TT	CC	CC	INTERGENIC			
SNP_116592_A_4735	NW_004520849.1	scaffold7590	4735	GG	TT	TT	INTERGENIC			
SNP_116593_A_4797	NW_004520849.1	scaffold7590	4797	TT	CC	CC	INTERGENIC			
SNP_116594_A_4875	NW_004520849.1	scaffold7590	4875	AA	CC	CC	INTERGENIC			
SNP_116595_A_4983	NW_004520849.1	scaffold7590	4983	CC	TT	TT	INTERGENIC			
SNP_116596_A_4998	NW_004520849.1	scaffold7590	4998	TT	CC	CC	INTERGENIC			
SNP_116597_A_5000	NW_004520849.1	scaffold7590	5000	TT	CC	CC	INTERGENIC			
SNP_116598_A_5085	NW_004520849.1	scaffold7590	5085	AA	GG	GG	INTERGENIC			
SNP_116599_A_5102	NW_004520849.1	scaffold7590	5102	GG	AA	AA	INTERGENIC			
SNP_116600_A_5168	NW_004520849.1	scaffold7590	5168	TT	CC	CC	INTERGENIC			
SNP_116601_A_5176	NW_004520849.1	scaffold7590	5176	GG	AA	AA	INTERGENIC			
SNP_116602_A_5202	NW_004520849.1	scaffold7590	5202	AA	GG	GG	INTERGENIC			
SNP_116603_A_5229	NW_004520849.1	scaffold7590	5229	AA	CC	CC	INTERGENIC			
SNP_116604_A_5301	NW_004520849.1	scaffold7590	5301	AA	GG	GG	INTERGENIC			
SNP_116605_A_5327	NW_004520849.1	scaffold7590	5327	AA	GG	GG	INTERGENIC			
SNP_116606_A_5335	NW_004520849.1	scaffold7590	5335	GG	TT	TT	INTERGENIC			
SNP_116607_A_5488	NW_004520849.1	scaffold7590	5488	GG	AA	AA	INTERGENIC			
SNP_116608_A_5661	NW_004520849.1	scaffold7590	5661	CC	GG	GG	INTERGENIC			
SNP_116609_A_100	NW_004520853.1	scaffold7595	100	CC	GG	GG	INTERGENIC			
SNP_116610_A_277	NW_004520853.1	scaffold7595	277	GG	TT	TT	INTERGENIC			
SNP_116611_A_378	NW_004520853.1	scaffold7595	378	TT	CC	CC	INTERGENIC			
SNP_116612_A_412	NW_004520853.1	scaffold7595	412	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116613_A_478	NW_004520853.1	scaffold7595	478	CC	GG	GG	INTERGENIC			
SNP_116614_A_521	NW_004520853.1	scaffold7595	521	AA	CC	CC	INTERGENIC			
SNP_116615_A_552	NW_004520853.1	scaffold7595	552	AA	TT	TT	INTERGENIC			
SNP_116616_A_617	NW_004520853.1	scaffold7595	617	GG	TT	TT	INTERGENIC			
SNP_116617_A_620	NW_004520853.1	scaffold7595	620	GG	TT	TT	INTERGENIC			
SNP_116618_A_708	NW_004520853.1	scaffold7595	708	TT	CC	CC	INTERGENIC			
SNP_116619_A_733	NW_004520853.1	scaffold7595	733	TT	AA	AA	INTERGENIC			
SNP_116620_A_738	NW_004520853.1	scaffold7595	738	GG	TT	TT	INTERGENIC			
SNP_116621_A_1181	NW_004520853.1	scaffold7595	1181	GG	CC	CC	INTERGENIC			
SNP_116622_A_1101	NW_004520854.1	scaffold7596	1101	AA	CC	CC	INTERGENIC			
SNP_116623_A_82	NW_004520855.1	scaffold7599	82	AA	GG	GG	INTERGENIC			
SNP_116624_A_151	NW_004520855.1	scaffold7599	151	CC	TT	TT	INTERGENIC			
SNP_116627_A_903	NW_004520855.1	scaffold7599	903	AA	CC	CC	INTERGENIC			
SNP_116628_A_1022	NW_004520855.1	scaffold7599	1022	TT	CC	CC	INTERGENIC			
SNP_116629_A_1259	NW_004520855.1	scaffold7599	1259	TT	AA	AA	INTERGENIC			
SNP_116630_A_942	NW_004520857.1	scaffold7601	942	CC	AA	AA	INTERGENIC			
SNP_116631_A_407	NW_004520861.1	scaffold7610	407	AA	GG	GG	INTERGENIC			
SNP_116632_A_654	NW_004520861.1	scaffold7610	654	GG	AA	AA	INTERGENIC			
SNP_116633_A_1094	NW_004520861.1	scaffold7610	1094	AA	GG	GG	INTERGENIC			
SNP_116634_A_1113	NW_004520861.1	scaffold7610	1113	GG	AA	AA	INTERGENIC			
SNP_116635_A_1001	NW_004520864.1	scaffold7616	1001	AA	GG	GG	INTERGENIC			
SNP_116636_A_219	NW_004520865.1	scaffold7617	219	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116637_A_247	NW_004520865.1	scaffold7617	247	AA	GG	GG	INTERGENIC			
SNP_116638_A_249	NW_004520865.1	scaffold7617	249	GG	CC	CC	INTERGENIC			
SNP_116639_A_271	NW_004520865.1	scaffold7617	271	TT	AA	AA	INTERGENIC			
SNP_116640_A_279	NW_004520865.1	scaffold7617	279	GG	AA	AA	INTERGENIC			
SNP_116641_A_358	NW_004520865.1	scaffold7617	358	AA	TT	TT	INTERGENIC			
SNP_116642_A_385	NW_004520865.1	scaffold7617	385	GG	CC	CC	INTERGENIC			
SNP_116643_A_442	NW_004520865.1	scaffold7617	442	TT	GG	GG	INTERGENIC			
SNP_116644_A_449	NW_004520865.1	scaffold7617	449	AA	CC	CC	INTERGENIC			
SNP_116645_A_455	NW_004520865.1	scaffold7617	455	CC	TT	TT	INTERGENIC			
SNP_116646_A_457	NW_004520865.1	scaffold7617	457	GG	AA	AA	INTERGENIC			
SNP_116647_A_498	NW_004520865.1	scaffold7617	498	AA	GG	GG	INTERGENIC			
SNP_116648_A_526	NW_004520865.1	scaffold7617	526	AA	TT	TT	INTERGENIC			
SNP_116649_A_534	NW_004520865.1	scaffold7617	534	TT	CC	CC	INTERGENIC			
SNP_116650_A_569	NW_004520865.1	scaffold7617	569	CC	TT	TT	INTERGENIC			
SNP_116651_A_700	NW_004520865.1	scaffold7617	700	GG	TT	TT	INTERGENIC			
SNP_116652_A_713	NW_004520865.1	scaffold7617	713	CC	AA	AA	INTERGENIC			
SNP_116653_A_731	NW_004520865.1	scaffold7617	731	GG	AA	AA	INTERGENIC			
SNP_116654_A_750	NW_004520865.1	scaffold7617	750	AA	TT	TT	INTERGENIC			
SNP_116655_A_779	NW_004520865.1	scaffold7617	779	GG	CC	CC	INTERGENIC			
SNP_116656_A_820	NW_004520865.1	scaffold7617	820	GG	AA	AA	INTERGENIC			
SNP_116657_A_831	NW_004520865.1	scaffold7617	831	AA	TT	TT	INTERGENIC			
SNP_116658_A_834	NW_004520865.1	scaffold7617	834	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116659_A_856	NW_004520865.1	scaffold7617	856	GG	TT	TT	INTERGENIC			
SNP_116660_A_917	NW_004520865.1	scaffold7617	917	GG	CC	CC	INTERGENIC			
SNP_116661_A_943	NW_004520865.1	scaffold7617	943	AA	CC	CC	INTERGENIC			
SNP_116662_A_965	NW_004520865.1	scaffold7617	965	GG	TT	TT	INTERGENIC			
SNP_116663_A_975	NW_004520865.1	scaffold7617	975	GG	CC	CC	INTERGENIC			
SNP_116664_A_1022	NW_004520865.1	scaffold7617	1022	TT	GG	GG	INTERGENIC			
SNP_116665_A_1024	NW_004520865.1	scaffold7617	1024	AA	GG	GG	INTERGENIC			
SNP_116666_A_1038	NW_004520865.1	scaffold7617	1038	AA	TT	TT	INTERGENIC			
SNP_116668_A_1055	NW_004520865.1	scaffold7617	1055	CC	TT	TT	INTERGENIC			
SNP_116669_A_1072	NW_004520865.1	scaffold7617	1072	TT	CC	CC	INTERGENIC			
SNP_116670_A_1197	NW_004520865.1	scaffold7617	1197	TT	CC	CC	INTERGENIC			
SNP_116671_A_1260	NW_004520865.1	scaffold7617	1260	TT	AA	AA	INTERGENIC			
SNP_116672_A_1828	NW_004520866.1	scaffold7621	1828	CC	TT	TT	INTERGENIC			
SNP_116673_A_890	NW_004520876.1	scaffold7642	890	CC	GG	GG	INTERGENIC			
SNP_116674_A_9099	NW_004520879.1	scaffold7650	9099	TT	GG	GG	URR	101494277	SKP1-like protein 14	
SNP_116677_A_9997	NW_004520879.1	scaffold7650	9997	GG	AA	AA	URR	101494277	SKP1-like protein 14	
SNP_116678_A_647	NW_004520885.1	scaffold7657	647	AA	GG	GG	INTERGENIC			
SNP_116679_A_651	NW_004520885.1	scaffold7657	651	AA	TT	TT	INTERGENIC			
SNP_116681_A_781	NW_004520885.1	scaffold7657	781	TT	AA	AA	INTERGENIC			
SNP_116682_A_802	NW_004520885.1	scaffold7657	802	GG	AA	AA	INTERGENIC			
SNP_116683_A_398	NW_004520886.1	scaffold7660	398	CC	AA	AA	INTERGENIC			
SNP_116684_A_411	NW_004520886.1	scaffold7660	411	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116685_A_419	NW_004520886.1	scaffold7660	419	GG	AA	AA	INTERGENIC			
SNP_116686_A_697	NW_004520887.1	scaffold7661	697	CC	TT	TT	INTERGENIC			
SNP_116687_A_834	NW_004520887.1	scaffold7661	834	CC	AA	AA	INTERGENIC			
SNP_116689_A_92	NW_004520888.1	scaffold7663	92	GG	AA	AA	INTERGENIC			
SNP_116691_A_2653	NW_004520896.1	scaffold7679	2653	GG	CC	CC	INTERGENIC			
SNP_116692_A_6002	NW_004520899.1	scaffold7682	6002	AA	GG	GG	INTERGENIC			
SNP_116693_A_6014	NW_004520899.1	scaffold7682	6014	TT	AA	AA	INTERGENIC			
SNP_116694_A_444	NW_004520908.1	scaffold7697	444	GG	CC	CC	INTERGENIC			
SNP_116696_A_653	NW_004520908.1	scaffold7697	653	AA	GG	GG	INTERGENIC			
SNP_116697_A_676	NW_004520908.1	scaffold7697	676	GG	CC	CC	INTERGENIC			
SNP_116698_A_729	NW_004520908.1	scaffold7697	729	AA	TT	TT	INTERGENIC			
SNP_116699_A_790	NW_004520908.1	scaffold7697	790	TT	CC	CC	INTERGENIC			
SNP_116700_A_668	NW_004520909.1	scaffold7698	668	GG	CC	CC	INTERGENIC			
SNP_116701_A_704	NW_004520909.1	scaffold7698	704	AA	TT	TT	INTERGENIC			
SNP_116702_A_798	NW_004520909.1	scaffold7698	798	GG	AA	AA	INTERGENIC			
SNP_116703_A_800	NW_004520909.1	scaffold7698	800	CC	TT	TT	INTERGENIC			
SNP_116704_A_855	NW_004520909.1	scaffold7698	855	AA	GG	GG	INTERGENIC			
SNP_116705_A_890	NW_004520909.1	scaffold7698	890	AA	GG	GG	INTERGENIC			
SNP_116707_A_979	NW_004520909.1	scaffold7698	979	CC	GG	GG	INTERGENIC			
SNP_116708_A_1012	NW_004520909.1	scaffold7698	1012	AA	GG	GG	INTERGENIC			
SNP_116709_A_1027	NW_004520909.1	scaffold7698	1027	CC	AA	AA	INTERGENIC			
SNP_116710_A_1125	NW_004520909.1	scaffold7698	1125	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_116711_A_542	NW_004520912.1	scaffold7701	542	AA	TT	TT	INTERGENIC		
SNP_116712_A_5228	NW_004520919.1	scaffold7715	5228	GG	TT	TT	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116713_A_5252	NW_004520919.1	scaffold7715	5252	AA	TT	TT	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116714_A_5258	NW_004520919.1	scaffold7715	5258	GG	CC	CC	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116715_A_5795	NW_004520919.1	scaffold7715	5795	GG	CC	CC	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116716_A_5852	NW_004520919.1	scaffold7715	5852	TT	CC	CC	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116717_A_5874	NW_004520919.1	scaffold7715	5874	AA	TT	TT	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116718_A_5930	NW_004520919.1	scaffold7715	5930	CC	TT	TT	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116719_A_5950	NW_004520919.1	scaffold7715	5950	TT	CC	CC	URR	101494586	fasciclin-like arabinogalactan protein 21
SNP_116720_A_1131	NW_004520920.1	scaffold7716	1131	AA	GG	GG	INTERGENIC		
SNP_116721_A_1312	NW_004520921.1	scaffold7717	1312	TT	CC	CC	INTERGENIC		
SNP_116722_A_1331	NW_004520921.1	scaffold7717	1331	CC	TT	TT	INTERGENIC		
SNP_116723_A_1022	NW_004520923.1	scaffold7724	1022	CC	TT	TT	INTERGENIC		
SNP_116724_A_1118	NW_004520923.1	scaffold7724	1118	AA	CC	CC	INTERGENIC		
SNP_116725_A_1198	NW_004520923.1	scaffold7724	1198	TT	CC	CC	INTERGENIC		
SNP_116726_A_1230	NW_004520923.1	scaffold7724	1230	CC	TT	TT	INTERGENIC		
SNP_116727_A_1481	NW_004520923.1	scaffold7724	1481	AA	GG	GG	INTERGENIC		
SNP_116728_A_1597	NW_004520923.1	scaffold7724	1597	AA	GG	GG	INTERGENIC		
SNP_116729_A_2484	NW_004520923.1	scaffold7724	2484	TT	GG	GG	INTERGENIC		
SNP_116730_A_3524	NW_004520923.1	scaffold7724	3524	CC	TT	TT	INTERGENIC		
SNP_116731_A_3543	NW_004520923.1	scaffold7724	3543	GG	TT	TT	INTERGENIC		
SNP_116732_A_3567	NW_004520923.1	scaffold7724	3567	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116733_A_3569	NW_004520923.1	scaffold7724	3569	GG	TT	TT	INTERGENIC			
SNP_116734_A_3578	NW_004520923.1	scaffold7724	3578	CC	AA	AA	INTERGENIC			
SNP_116735_A_819	NW_004520927.1	scaffold7731	819	TT	CC	CC	INTERGENIC			
SNP_116736_A_1182	NW_004520927.1	scaffold7731	1182	TT	CC	CC	INTERGENIC			
SNP_116737_A_477	NW_004520932.1	scaffold7739	477	CC	AA	AA	INTERGENIC			
SNP_116738_A_269	NW_004520933.1	scaffold7740	269	AA	GG	GG	INTERGENIC			
SNP_116739_A_696	NW_004520933.1	scaffold7740	696	TT	GG	GG	INTERGENIC			
SNP_116740_A_1618	NW_004520933.1	scaffold7740	1618	CC	TT	TT	INTERGENIC			
SNP_116741_A_1627	NW_004520933.1	scaffold7740	1627	TT	CC	CC	INTERGENIC			
SNP_116742_A_1651	NW_004520933.1	scaffold7740	1651	TT	AA	AA	INTERGENIC			
SNP_116743_A_1673	NW_004520933.1	scaffold7740	1673	AA	TT	TT	INTERGENIC			
SNP_116744_A_1802	NW_004520933.1	scaffold7740	1802	GG	AA	AA	INTERGENIC			
SNP_116745_A_573	NW_004520937.1	scaffold7752	573	CC	TT	TT	INTERGENIC			
SNP_116746_A_815	NW_004520937.1	scaffold7752	815	TT	CC	CC	INTERGENIC			
SNP_116747_A_969	NW_004520937.1	scaffold7752	969	AA	GG	GG	INTERGENIC			
SNP_116748_A_1078	NW_004520937.1	scaffold7752	1078	AA	TT	TT	INTERGENIC			
SNP_116749_A_1086	NW_004520937.1	scaffold7752	1086	AA	GG	GG	INTERGENIC			
SNP_116750_A_1438	NW_004520937.1	scaffold7752	1438	CC	TT	TT	INTERGENIC			
SNP_116751_A_788	NW_004520938.1	scaffold7753	788	AA	CC	CC	INTERGENIC			
SNP_116752_A_813	NW_004520938.1	scaffold7753	813	GG	TT	TT	INTERGENIC			
SNP_116753_A_821	NW_004520938.1	scaffold7753	821	AA	CC	CC	INTERGENIC			
SNP_116754_A_893	NW_004520938.1	scaffold7753	893	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116756_A_928	NW_004520938.1	scaffold7753	928	TT	GG	GG	INTERGENIC			
SNP_116757_A_64	NW_004520941.1	scaffold7765	64	CC	AA	AA	INTERGENIC			
SNP_116758_A_109	NW_004520941.1	scaffold7765	109	AA	GG	GG	INTERGENIC			
SNP_116759_A_309	NW_004520941.1	scaffold7765	309	TT	CC	CC	INTERGENIC			
SNP_116760_A_503	NW_004520941.1	scaffold7765	503	CC	TT	TT	INTERGENIC			
SNP_116761_A_886	NW_004520941.1	scaffold7765	886	GG	AA	AA	INTERGENIC			
SNP_116762_A_960	NW_004520941.1	scaffold7765	960	CC	GG	GG	INTERGENIC			
SNP_116764_A_1063	NW_004520941.1	scaffold7765	1063	TT	GG	GG	INTERGENIC			
SNP_116765_A_478	NW_004520942.1	scaffold7767	478	CC	TT	TT	INTERGENIC			
SNP_116766_A_503	NW_004520942.1	scaffold7767	503	GG	CC	CC	INTERGENIC			
SNP_116768_A_533	NW_004520942.1	scaffold7767	533	AA	TT	TT	INTERGENIC			
SNP_116769_A_64	NW_004520950.1	scaffold7778	64	CC	TT	TT	INTERGENIC			
SNP_116770_A_84	NW_004520950.1	scaffold7778	84	CC	AA	AA	INTERGENIC			
SNP_116771_A_195	NW_004520950.1	scaffold7778	195	CC	TT	TT	INTERGENIC			
SNP_116772_A_268	NW_004520950.1	scaffold7778	268	AA	CC	CC	INTERGENIC			
SNP_116773_A_433	NW_004520950.1	scaffold7778	433	AA	GG	GG	INTERGENIC			
SNP_116774_A_447	NW_004520950.1	scaffold7778	447	TT	CC	CC	INTERGENIC			
SNP_116775_A_451	NW_004520950.1	scaffold7778	451	TT	CC	CC	INTERGENIC			
SNP_116776_A_923	NW_004520950.1	scaffold7778	923	TT	AA	AA	INTERGENIC			
SNP_116777_A_927	NW_004520950.1	scaffold7778	927	AA	CC	CC	INTERGENIC			
SNP_116778_A_801	NW_004520959.1	scaffold7795	801	TT	CC	CC	INTERGENIC			
SNP_116779_A_1892	NW_004520960.1	scaffold7797	1892	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116780_A_2086	NW_004520960.1	scaffold7797	2086	CC	AA	AA	INTERGENIC			
SNP_116781_A_117	NW_004520964.1	scaffold7802	117	TT	CC	CC	INTERGENIC			
SNP_116782_A_1356	NW_004520964.1	scaffold7802	1356	CC	GG	GG	INTERGENIC			
SNP_116783_A_1361	NW_004520964.1	scaffold7802	1361	CC	TT	TT	INTERGENIC			
SNP_116784_A_2884	NW_004520964.1	scaffold7802	2884	AA	CC	CC	INTERGENIC			
SNP_116785_A_3161	NW_004520964.1	scaffold7802	3161	GG	AA	AA	INTERGENIC			
SNP_116786_A_3175	NW_004520964.1	scaffold7802	3175	AA	GG	GG	INTERGENIC			
SNP_116787_A_3200	NW_004520964.1	scaffold7802	3200	GG	AA	AA	INTERGENIC			
SNP_116788_A_3307	NW_004520964.1	scaffold7802	3307	GG	TT	TT	INTERGENIC			
SNP_116789_A_3322	NW_004520964.1	scaffold7802	3322	CC	TT	TT	INTERGENIC			
SNP_116791_A_525	NW_004520967.1	scaffold7807	525	CC	GG	GG	INTERGENIC			
SNP_116792_A_763	NW_004520967.1	scaffold7807	763	CC	TT	TT	INTERGENIC			
SNP_116793_A_2009	NW_004520967.1	scaffold7807	2009	GG	CC	CC	INTERGENIC			
SNP_116794_A_2078	NW_004520967.1	scaffold7807	2078	AA	CC	CC	INTERGENIC			
SNP_116795_A_6025	NW_004520967.1	scaffold7807	6025	GG	AA	AA	INTERGENIC			
SNP_116796_A_469	NW_004520968.1	scaffold7808	469	CC	AA	AA	INTERGENIC			
SNP_116797_A_475	NW_004520968.1	scaffold7808	475	AA	TT	TT	INTERGENIC			
SNP_116798_A_544	NW_004520968.1	scaffold7808	544	TT	CC	CC	INTERGENIC			
SNP_116799_A_547	NW_004520968.1	scaffold7808	547	AA	TT	TT	INTERGENIC			
SNP_116800_A_497	NW_004520975.1	scaffold7818	497	GG	AA	AA	INTERGENIC			
SNP_116801_A_174	NW_004520978.1	scaffold7821	174	CC	TT	TT	INTERGENIC			
SNP_116802_A_180	NW_004520978.1	scaffold7821	180	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116803_A_200	NW_004520978.1	scaffold7821	200	CC	GG	GG	INTERGENIC			
SNP_116804_A_201	NW_004520978.1	scaffold7821	201	CC	TT	TT	INTERGENIC			
SNP_116805_A_203	NW_004520978.1	scaffold7821	203	AA	TT	TT	INTERGENIC			
SNP_116806_A_207	NW_004520978.1	scaffold7821	207	CC	TT	TT	INTERGENIC			
SNP_116807_A_238	NW_004520978.1	scaffold7821	238	TT	CC	CC	INTERGENIC			
SNP_116808_A_285	NW_004520978.1	scaffold7821	285	TT	CC	CC	INTERGENIC			
SNP_116809_A_291	NW_004520978.1	scaffold7821	291	AA	GG	GG	INTERGENIC			
SNP_116810_A_301	NW_004520978.1	scaffold7821	301	AA	CC	CC	INTERGENIC			
SNP_116811_A_306	NW_004520978.1	scaffold7821	306	GG	AA	AA	INTERGENIC			
SNP_116812_A_436	NW_004520979.1	scaffold7823	436	TT	CC	CC	INTERGENIC			
SNP_116814_A_1870	NW_004520979.1	scaffold7823	1870	TT	GG	GG	INTERGENIC			
SNP_116815_A_2130	NW_004520979.1	scaffold7823	2130	CC	TT	TT	INTERGENIC			
SNP_116816_A_2202	NW_004520979.1	scaffold7823	2202	AA	GG	GG	INTERGENIC			
SNP_116817_A_2204	NW_004520979.1	scaffold7823	2204	TT	CC	CC	INTERGENIC			
SNP_116818_A_4614	NW_004520979.1	scaffold7823	4614	AA	GG	GG	INTERGENIC			
SNP_116819_A_4800	NW_004520979.1	scaffold7823	4800	TT	CC	CC	INTERGENIC			
SNP_116820_A_4825	NW_004520979.1	scaffold7823	4825	GG	AA	AA	INTERGENIC			
SNP_116821_A_4844	NW_004520979.1	scaffold7823	4844	CC	TT	TT	INTERGENIC			
SNP_116822_A_4863	NW_004520979.1	scaffold7823	4863	AA	CC	CC	INTERGENIC			
SNP_116823_A_693	NW_004520980.1	scaffold7825	693	CC	TT	TT	INTERGENIC			
SNP_116824_A_1194	NW_004520985.1	scaffold7837	1194	CC	TT	TT	INTERGENIC			
SNP_116825_A_1430	NW_004520985.1	scaffold7837	1430	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116826_A_1432	NW_004520985.1	scaffold7837	1432	TT	AA	AA	INTERGENIC			
SNP_116827_A_4811	NW_004520986.1	scaffold7839	4811	GG	AA	AA	INTERGENIC			
SNP_116828_A_19326	NW_004520987.1	scaffold7842	19326	CC	AA	AA	INTERGENIC			
SNP_116829_A_19867	NW_004520987.1	scaffold7842	19867	TT	CC	CC	INTERGENIC			
SNP_116830_A_20102	NW_004520987.1	scaffold7842	20102	AA	GG	GG	INTERGENIC			
SNP_116831_A_20195	NW_004520987.1	scaffold7842	20195	AA	GG	GG	INTERGENIC			
SNP_116832_A_20296	NW_004520987.1	scaffold7842	20296	AA	TT	TT	INTERGENIC			
SNP_116833_A_20299	NW_004520987.1	scaffold7842	20299	TT	AA	AA	INTERGENIC			
SNP_116834_A_20308	NW_004520987.1	scaffold7842	20308	CC	GG	GG	INTERGENIC			
SNP_116835_A_20357	NW_004520987.1	scaffold7842	20357	TT	AA	AA	INTERGENIC			
SNP_116837_A_20506	NW_004520987.1	scaffold7842	20506	TT	CC	CC	INTERGENIC			
SNP_116838_A_20533	NW_004520987.1	scaffold7842	20533	AA	TT	TT	INTERGENIC			
SNP_116840_A_638	NW_004520993.1	scaffold7857	638	AA	CC	CC	INTERGENIC			
SNP_116841_A_642	NW_004520993.1	scaffold7857	642	CC	AA	AA	INTERGENIC			
SNP_116842_A_646	NW_004520993.1	scaffold7857	646	GG	AA	AA	INTERGENIC			
SNP_116843_A_647	NW_004520993.1	scaffold7857	647	GG	AA	AA	INTERGENIC			
SNP_116844_A_727	NW_004520993.1	scaffold7857	727	AA	TT	TT	INTERGENIC			
SNP_116845_A_728	NW_004520993.1	scaffold7857	728	TT	GG	GG	INTERGENIC			
SNP_116846_A_792	NW_004520993.1	scaffold7857	792	AA	CC	CC	INTERGENIC			
SNP_116847_A_1043	NW_004520993.1	scaffold7857	1043	AA	TT	TT	INTERGENIC			
SNP_116848_A_501	NW_004520996.1	scaffold7863	501	AA	GG	GG	INTERGENIC			
SNP_116849_A_1597	NW_004520999.1	scaffold7868	1597	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116850_A_1620	NW_004520999.1	scaffold7868	1620	GG	CC	CC	INTERGENIC			
SNP_116851_A_5755	NW_004521005.1	scaffold7882	5755	CC	TT	TT	INTERGENIC			
SNP_116852_A_1886	NW_004521010.1	scaffold7889	1886	AA	TT	TT	INTERGENIC			
SNP_116853_A_1898	NW_004521010.1	scaffold7889	1898	AA	GG	GG	INTERGENIC			
SNP_116855_A_427	NW_004521011.1	scaffold7890	427	CC	TT	TT	INTERGENIC			
SNP_116856_A_438	NW_004521011.1	scaffold7890	438	GG	AA	AA	INTERGENIC			
SNP_116857_A_481	NW_004521011.1	scaffold7890	481	AA	TT	TT	INTERGENIC			
SNP_116858_A_530	NW_004521011.1	scaffold7890	530	AA	CC	CC	INTERGENIC			
SNP_116859_A_605	NW_004521011.1	scaffold7890	605	TT	GG	GG	INTERGENIC			
SNP_116860_A_673	NW_004521011.1	scaffold7890	673	GG	AA	AA	INTERGENIC			
SNP_116862_A_773	NW_004521011.1	scaffold7890	773	TT	CC	CC	INTERGENIC			
SNP_116863_A_796	NW_004521011.1	scaffold7890	796	TT	CC	CC	INTERGENIC			
SNP_116864_A_841	NW_004521011.1	scaffold7890	841	TT	CC	CC	INTERGENIC			
SNP_116865_A_2911	NW_004521012.1	scaffold7891	2911	GG	AA	AA	INTERGENIC			
SNP_116866_A_3335	NW_004521012.1	scaffold7891	3335	AA	GG	GG	INTERGENIC			
SNP_116867_A_3653	NW_004521012.1	scaffold7891	3653	TT	GG	GG	INTERGENIC			
SNP_116868_A_3658	NW_004521012.1	scaffold7891	3658	AA	CC	CC	INTERGENIC			
SNP_116869_A_3746	NW_004521012.1	scaffold7891	3746	AA	GG	GG	INTERGENIC			
SNP_116870_A_3749	NW_004521012.1	scaffold7891	3749	GG	TT	TT	INTERGENIC			
SNP_116872_A_3854	NW_004521012.1	scaffold7891	3854	CC	TT	TT	INTERGENIC			
SNP_116873_A_3873	NW_004521012.1	scaffold7891	3873	TT	CC	CC	INTERGENIC			
SNP_116874_A_3888	NW_004521012.1	scaffold7891	3888	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116875_A_4033	NW_004521012.1	scaffold7891	4033	TT	GG	GG	INTERGENIC			
SNP_116876_A_4046	NW_004521012.1	scaffold7891	4046	AA	CC	CC	INTERGENIC			
SNP_116877_A_4050	NW_004521012.1	scaffold7891	4050	CC	TT	TT	INTERGENIC			
SNP_116878_A_4088	NW_004521012.1	scaffold7891	4088	AA	GG	GG	INTERGENIC			
SNP_116879_A_4093	NW_004521012.1	scaffold7891	4093	CC	TT	TT	INTERGENIC			
SNP_116880_A_4094	NW_004521012.1	scaffold7891	4094	AA	GG	GG	INTERGENIC			
SNP_116881_A_4202	NW_004521012.1	scaffold7891	4202	AA	CC	CC	INTERGENIC			
SNP_116882_A_4248	NW_004521012.1	scaffold7891	4248	AA	TT	TT	INTERGENIC			
SNP_116883_A_4251	NW_004521012.1	scaffold7891	4251	GG	AA	AA	INTERGENIC			
SNP_116884_A_4349	NW_004521012.1	scaffold7891	4349	AA	GG	GG	INTERGENIC			
SNP_116885_A_4429	NW_004521012.1	scaffold7891	4429	GG	TT	TT	INTERGENIC			
SNP_116886_A_4455	NW_004521012.1	scaffold7891	4455	TT	CC	CC	INTERGENIC			
SNP_116887_A_4456	NW_004521012.1	scaffold7891	4456	GG	AA	AA	INTERGENIC			
SNP_116888_A_4496	NW_004521012.1	scaffold7891	4496	TT	CC	CC	INTERGENIC			
SNP_116889_A_4525	NW_004521012.1	scaffold7891	4525	AA	CC	CC	INTERGENIC			
SNP_116890_A_4540	NW_004521012.1	scaffold7891	4540	TT	CC	CC	INTERGENIC			
SNP_116891_A_4547	NW_004521012.1	scaffold7891	4547	CC	GG	GG	INTERGENIC			
SNP_116892_A_4572	NW_004521012.1	scaffold7891	4572	CC	TT	TT	INTERGENIC			
SNP_116893_A_4736	NW_004521012.1	scaffold7891	4736	TT	CC	CC	INTERGENIC			
SNP_116894_A_4867	NW_004521012.1	scaffold7891	4867	AA	GG	GG	INTERGENIC			
SNP_116895_A_95	NW_004521017.1	scaffold7898	95	TT	CC	CC	INTERGENIC			
SNP_116896_A_975	NW_004521017.1	scaffold7898	975	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_116897_A_1004	NW_004521017.1	scaffold7898	1004	AA	TT	TT	INTERGENIC		
SNP_116898_A_422	NW_004521019.1	scaffold7902	422	TT	GG	GG	INTERGENIC		
SNP_116899_A_664	NW_004521019.1	scaffold7902	664	CC	TT	TT	INTERGENIC		
SNP_116901_A_905	NW_004521019.1	scaffold7902	905	GG	AA	AA	INTERGENIC		
SNP_116902_A_1458	NW_004521019.1	scaffold7902	1458	TT	CC	CC	INTERGENIC		
SNP_116903_A_1573	NW_004521019.1	scaffold7902	1573	AA	GG	GG	INTERGENIC		
SNP_116904_A_1764	NW_004521019.1	scaffold7902	1764	AA	GG	GG	INTERGENIC		
SNP_116905_A_2178	NW_004521022.1	scaffold7906	2178	TT	AA	AA	INTERGENIC		
SNP_116906_A_2211	NW_004521022.1	scaffold7906	2211	TT	AA	AA	INTERGENIC		
SNP_116907_A_2217	NW_004521022.1	scaffold7906	2217	AA	TT	TT	INTERGENIC		
SNP_116908_A_2429	NW_004521022.1	scaffold7906	2429	GG	CC	CC	INTERGENIC		
SNP_116909_A_4834	NW_004521029.1	scaffold7922	4834	AA	TT	TT	INTERGENIC		
SNP_116910_A_4850	NW_004521029.1	scaffold7922	4850	AA	GG	GG	INTERGENIC		
SNP_116911_A_4960	NW_004521029.1	scaffold7922	4960	GG	AA	AA	INTERGENIC		
SNP_116912_A_5044	NW_004521029.1	scaffold7922	5044	GG	AA	AA	INTERGENIC		
SNP_116913_A_5134	NW_004521029.1	scaffold7922	5134	AA	TT	TT	INTERGENIC		
SNP_116914_A_5575	NW_004521029.1	scaffold7922	5575	AA	TT	TT	INTERGENIC		
SNP_116918_A_22265	NW_004521030.1	scaffold7923	22265	TT	CC	CC	DRR	101497739	cytokinin hydroxylase-like
SNP_116919_A_22306	NW_004521030.1	scaffold7923	22306	TT	CC	CC	DRR	101497739	cytokinin hydroxylase-like
SNP_116920_A_22310	NW_004521030.1	scaffold7923	22310	AA	TT	TT	DRR	101497739	cytokinin hydroxylase-like
SNP_116922_A_22409	NW_004521030.1	scaffold7923	22409	AA	GG	GG	DRR	101497739	cytokinin hydroxylase-like
SNP_116923_A_22422	NW_004521030.1	scaffold7923	22422	CC	AA	AA	DRR	101497739	cytokinin hydroxylase-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_116924_A_22440	NW_004521030.1	scaffold7923	22440	GG	AA	AA	DRR	101497739	cytokinin hydroxylase-like
SNP_116925_A_22548	NW_004521030.1	scaffold7923	22548	CC	TT	TT	DRR	101497739	cytokinin hydroxylase-like
SNP_116926_A_22561	NW_004521030.1	scaffold7923	22561	GG	TT	TT	DRR	101497739	cytokinin hydroxylase-like
SNP_116927_A_22619	NW_004521030.1	scaffold7923	22619	AA	GG	GG	DRR	101497739	cytokinin hydroxylase-like
SNP_116928_A_22778	NW_004521030.1	scaffold7923	22778	AA	GG	GG	INTERGENIC		
SNP_116929_A_22782	NW_004521030.1	scaffold7923	22782	GG	TT	TT	INTERGENIC		
SNP_116930_A_22830	NW_004521030.1	scaffold7923	22830	CC	TT	TT	INTERGENIC		
SNP_116931_A_23098	NW_004521030.1	scaffold7923	23098	GG	TT	TT	INTERGENIC		
SNP_116932_A_23129	NW_004521030.1	scaffold7923	23129	TT	GG	GG	INTERGENIC		
SNP_116933_A_23131	NW_004521030.1	scaffold7923	23131	AA	GG	GG	INTERGENIC		
SNP_116934_A_23135	NW_004521030.1	scaffold7923	23135	TT	CC	CC	INTERGENIC		
SNP_116936_A_4538	NW_004521032.1	scaffold7927	4538	TT	CC	CC	INTERGENIC		
SNP_116937_A_191	NW_004521035.1	scaffold7934	191	AA	GG	GG	INTERGENIC		
SNP_116938_A_590	NW_004521035.1	scaffold7934	590	GG	TT	TT	INTERGENIC		
SNP_116939_A_2448	NW_004521035.1	scaffold7934	2448	TT	GG	GG	INTERGENIC		
SNP_116940_A_2463	NW_004521035.1	scaffold7934	2463	TT	AA	AA	INTERGENIC		
SNP_116941_A_2678	NW_004521035.1	scaffold7934	2678	GG	AA	AA	INTERGENIC		
SNP_116942_A_2837	NW_004521035.1	scaffold7934	2837	GG	AA	AA	INTERGENIC		
SNP_116943_A_2912	NW_004521035.1	scaffold7934	2912	TT	AA	AA	INTERGENIC		
SNP_116944_A_3009	NW_004521035.1	scaffold7934	3009	AA	TT	TT	INTERGENIC		
SNP_116945_A_3086	NW_004521035.1	scaffold7934	3086	AA	GG	GG	INTERGENIC		
SNP_116946_A_3099	NW_004521035.1	scaffold7934	3099	TT	CC	CC	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116947_A_3160	NW_004521035.1	scaffold7934	3160	TT	GG	GG	INTERGENIC			
SNP_116948_A_3763	NW_004521035.1	scaffold7934	3763	TT	CC	CC	INTERGENIC			
SNP_116949_A_3787	NW_004521035.1	scaffold7934	3787	AA	GG	GG	INTERGENIC			
SNP_116950_A_3803	NW_004521035.1	scaffold7934	3803	AA	TT	TT	INTERGENIC			
SNP_116951_A_504	NW_004521039.1	scaffold7943	504	AA	GG	GG	INTERGENIC			
SNP_116952_A_509	NW_004521039.1	scaffold7943	509	AA	GG	GG	INTERGENIC			
SNP_116953_A_1134	NW_004521046.1	scaffold7956	1134	GG	AA	AA	INTERGENIC			
SNP_116954_A_388	NW_004521048.1	scaffold7958	388	GG	TT	TT	INTERGENIC			
SNP_116955_A_512	NW_004521048.1	scaffold7958	512	TT	CC	CC	INTERGENIC			
SNP_116956_A_612	NW_004521048.1	scaffold7958	612	CC	AA	AA	INTERGENIC			
SNP_116957_A_745	NW_004521048.1	scaffold7958	745	TT	AA	AA	INTERGENIC			
SNP_116958_A_881	NW_004521048.1	scaffold7958	881	AA	TT	TT	INTERGENIC			
SNP_116959_A_988	NW_004521048.1	scaffold7958	988	TT	CC	CC	INTERGENIC			
SNP_116960_A_1010	NW_004521048.1	scaffold7958	1010	AA	TT	TT	INTERGENIC			
SNP_116961_A_730	NW_004521049.1	scaffold7961	730	AA	TT	TT	INTERGENIC			
SNP_116962_A_898	NW_004521049.1	scaffold7961	898	AA	GG	GG	INTERGENIC			
SNP_116963_A_2477	NW_004521052.1	scaffold7967	2477	CC	GG	GG	URR	101498741	glutathione S-transferase T3-like	
SNP_116964_A_4628	NW_004521057.1	scaffold7980	4628	AA	TT	TT	INTERGENIC			
SNP_116965_A_296	NW_004521059.1	scaffold7985	296	CC	AA	AA	INTERGENIC			
SNP_116966_A_572	NW_004521059.1	scaffold7985	572	AA	GG	GG	INTERGENIC			
SNP_116967_A_618	NW_004521059.1	scaffold7985	618	AA	GG	GG	INTERGENIC			
SNP_116968_A_653	NW_004521059.1	scaffold7985	653	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116969_A_668	NW_004521059.1	scaffold7985	668	TT	CC	CC	INTERGENIC			
SNP_116970_A_742	NW_004521059.1	scaffold7985	742	GG	TT	TT	INTERGENIC			
SNP_116971_A_747	NW_004521059.1	scaffold7985	747	CC	GG	GG	INTERGENIC			
SNP_116972_A_775	NW_004521059.1	scaffold7985	775	AA	TT	TT	INTERGENIC			
SNP_116973_A_785	NW_004521059.1	scaffold7985	785	TT	GG	GG	INTERGENIC			
SNP_116974_A_824	NW_004521059.1	scaffold7985	824	TT	CC	CC	INTERGENIC			
SNP_116975_A_856	NW_004521059.1	scaffold7985	856	TT	CC	CC	INTERGENIC			
SNP_116976_A_860	NW_004521059.1	scaffold7985	860	TT	CC	CC	INTERGENIC			
SNP_116977_A_1136	NW_004521059.1	scaffold7985	1136	TT	CC	CC	INTERGENIC			
SNP_116978_A_1171	NW_004521059.1	scaffold7985	1171	TT	CC	CC	INTERGENIC			
SNP_116979_A_1189	NW_004521059.1	scaffold7985	1189	AA	GG	GG	INTERGENIC			
SNP_116980_A_1233	NW_004521059.1	scaffold7985	1233	AA	CC	CC	INTERGENIC			
SNP_116981_A_1270	NW_004521059.1	scaffold7985	1270	AA	GG	GG	INTERGENIC			
SNP_116982_A_348	NW_004521062.1	scaffold7989	348	TT	CC	CC	INTERGENIC			
SNP_116983_A_565	NW_004521062.1	scaffold7989	565	TT	CC	CC	INTERGENIC			
SNP_116984_A_473	NW_004521063.1	scaffold7990	473	CC	TT	TT	INTERGENIC			
SNP_116985_A_929	NW_004521063.1	scaffold7990	929	TT	GG	GG	INTERGENIC			
SNP_116986_A_1039	NW_004521063.1	scaffold7990	1039	TT	AA	AA	INTERGENIC			
SNP_116987_A_1248	NW_004521063.1	scaffold7990	1248	TT	AA	AA	INTERGENIC			
SNP_116988_A_1278	NW_004521063.1	scaffold7990	1278	AA	TT	TT	INTERGENIC			
SNP_116989_A_1510	NW_004521063.1	scaffold7990	1510	CC	TT	TT	INTERGENIC			
SNP_116990_A_4510	NW_004521071.1	scaffold8004	4510	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_116991_A_4616	NW_004521071.1	scaffold8004	4616	AA	GG	GG	INTERGENIC			
SNP_116992_A_4622	NW_004521071.1	scaffold8004	4622	AA	CC	CC	INTERGENIC			
SNP_116993_A_496	NW_004521076.1	scaffold8015	496	AA	GG	GG	INTERGENIC			
SNP_116994_A_665	NW_004521076.1	scaffold8015	665	TT	AA	AA	INTERGENIC			
SNP_116995_A_3140	NW_004521079.1	scaffold8018	3140	CC	AA	AA	INTERGENIC			
SNP_116996_A_6960	NW_004521079.1	scaffold8018	6960	CC	TT	TT	INTERGENIC			
SNP_116997_A_7100	NW_004521079.1	scaffold8018	7100	TT	AA	AA	INTERGENIC			
SNP_116998_A_478	NW_004521080.1	scaffold8023	478	TT	AA	AA	INTERGENIC			
SNP_116999_A_94	NW_004521081.1	scaffold8025	94	AA	CC	CC	INTERGENIC			
SNP_117000_A_1342	NW_004521081.1	scaffold8025	1342	AA	TT	TT	INTERGENIC			
SNP_117001_A_526	NW_004521082.1	scaffold8029	526	CC	TT	TT	INTERGENIC			
SNP_117002_A_5247	NW_004521083.1	scaffold8030	5247	CC	GG	GG	INTERGENIC			
SNP_117003_A_5356	NW_004521083.1	scaffold8030	5356	CC	AA	AA	INTERGENIC			
SNP_117004_A_5378	NW_004521083.1	scaffold8030	5378	AA	GG	GG	INTERGENIC			
SNP_117005_A_5380	NW_004521083.1	scaffold8030	5380	CC	TT	TT	INTERGENIC			
SNP_117006_A_6587	NW_004521083.1	scaffold8030	6587	CC	TT	TT	INTERGENIC			
SNP_117007_A_6637	NW_004521083.1	scaffold8030	6637	TT	AA	AA	INTERGENIC			
SNP_117008_A_1184	NW_004521091.1	scaffold8047	1184	TT	CC	CC	INTERGENIC			
SNP_117009_A_1034	NW_004521092.1	scaffold8050	1034	AA	TT	TT	INTERGENIC			
SNP_117010_A_1120	NW_004521092.1	scaffold8050	1120	TT	CC	CC	INTERGENIC			
SNP_117011_A_295	NW_004521095.1	scaffold8054	295	AA	GG	GG	INTERGENIC			
SNP_117012_A_352	NW_004521095.1	scaffold8054	352	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117013_A_430	NW_004521095.1	scaffold8054	430	AA	GG	GG	INTERGENIC			
SNP_117014_A_545	NW_004521095.1	scaffold8054	545	GG	AA	AA	INTERGENIC			
SNP_117015_A_746	NW_004521095.1	scaffold8054	746	TT	AA	AA	INTERGENIC			
SNP_117016_A_1755	NW_004521095.1	scaffold8054	1755	AA	GG	GG	INTERGENIC			
SNP_117017_A_1788	NW_004521095.1	scaffold8054	1788	AA	CC	CC	INTERGENIC			
SNP_117018_A_2045	NW_004521095.1	scaffold8054	2045	CC	GG	GG	INTERGENIC			
SNP_117019_A_2080	NW_004521095.1	scaffold8054	2080	AA	TT	TT	INTERGENIC			
SNP_117020_A_2151	NW_004521095.1	scaffold8054	2151	GG	AA	AA	INTERGENIC			
SNP_117021_A_2172	NW_004521095.1	scaffold8054	2172	TT	CC	CC	INTERGENIC			
SNP_117022_A_2182	NW_004521095.1	scaffold8054	2182	AA	TT	TT	INTERGENIC			
SNP_117023_A_3129	NW_004521095.1	scaffold8054	3129	CC	AA	AA	INTERGENIC			
SNP_117024_A_3267	NW_004521095.1	scaffold8054	3267	CC	GG	GG	INTERGENIC			
SNP_117025_A_3562	NW_004521095.1	scaffold8054	3562	TT	CC	CC	INTERGENIC			
SNP_117027_A_93	NW_004521100.1	scaffold8063	93	CC	TT	TT	INTERGENIC			
SNP_117028_A_155	NW_004521100.1	scaffold8063	155	AA	GG	GG	INTERGENIC			
SNP_117029_A_532	NW_004521100.1	scaffold8063	532	AA	GG	GG	INTERGENIC			
SNP_117031_A_574	NW_004521100.1	scaffold8063	574	TT	CC	CC	INTERGENIC			
SNP_117032_A_576	NW_004521100.1	scaffold8063	576	CC	AA	AA	INTERGENIC			
SNP_117033_A_86	NW_004521102.1	scaffold8066	86	TT	AA	AA	INTERGENIC			
SNP_117034_A_478	NW_004521103.1	scaffold8068	478	TT	CC	CC	INTERGENIC			
SNP_117035_A_511	NW_004521103.1	scaffold8068	511	CC	AA	AA	INTERGENIC			
SNP_117036_A_557	NW_004521103.1	scaffold8068	557	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117037_A_788	NW_004521103.1	scaffold8068	788	AA	CC	CC	INTERGENIC			
SNP_117038_A_894	NW_004521103.1	scaffold8068	894	CC	GG	GG	INTERGENIC			
SNP_117039_A_756	NW_004521111.1	scaffold8087	756	TT	CC	CC	INTERGENIC			
SNP_117040_A_759	NW_004521111.1	scaffold8087	759	AA	CC	CC	INTERGENIC			
SNP_117041_A_818	NW_004521111.1	scaffold8087	818	GG	AA	AA	INTERGENIC			
SNP_117042_A_833	NW_004521111.1	scaffold8087	833	AA	GG	GG	INTERGENIC			
SNP_117043_A_1544	NW_004521117.1	scaffold8100	1544	TT	GG	GG	INTERGENIC			
SNP_117044_A_640	NW_004521119.1	scaffold8104	640	AA	TT	TT	INTERGENIC			
SNP_117045_A_7977	NW_004521128.1	scaffold8127	7977	CC	AA	AA	INTERGENIC			
SNP_117046_A_8285	NW_004521128.1	scaffold8127	8285	TT	CC	CC	INTERGENIC			
SNP_117048_A_342	NW_004521132.1	scaffold8135	342	AA	GG	GG	INTERGENIC			
SNP_117049_A_1785	NW_004521134.1	scaffold8140	1785	GG	AA	AA	INTERGENIC			
SNP_117050_A_1811	NW_004521134.1	scaffold8140	1811	TT	CC	CC	INTERGENIC			
SNP_117051_A_1835	NW_004521141.1	scaffold8154	1835	TT	AA	AA	INTERGENIC			
SNP_117053_A_1871	NW_004521141.1	scaffold8154	1871	AA	GG	GG	INTERGENIC			
SNP_117054_A_1896	NW_004521141.1	scaffold8154	1896	CC	GG	GG	INTERGENIC			
SNP_117056_A_915	NW_004521146.1	scaffold8162	915	AA	GG	GG	INTERGENIC			
SNP_117057_A_1064	NW_004521146.1	scaffold8162	1064	AA	GG	GG	INTERGENIC			
SNP_117058_A_195	NW_004521147.1	scaffold8163	195	CC	TT	TT	INTERGENIC			
SNP_117059_A_210	NW_004521147.1	scaffold8163	210	TT	CC	CC	INTERGENIC			
SNP_117060_A_234	NW_004521147.1	scaffold8163	234	GG	AA	AA	INTERGENIC			
SNP_117061_A_291	NW_004521147.1	scaffold8163	291	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117062_A_300	NW_004521147.1	scaffold8163	300	TT	AA	AA	INTERGENIC			
SNP_117063_A_369	NW_004521147.1	scaffold8163	369	AA	GG	GG	INTERGENIC			
SNP_117064_A_581	NW_004521147.1	scaffold8163	581	TT	AA	AA	INTERGENIC			
SNP_117065_A_619	NW_004521147.1	scaffold8163	619	AA	GG	GG	INTERGENIC			
SNP_117066_A_632	NW_004521147.1	scaffold8163	632	TT	CC	CC	INTERGENIC			
SNP_117067_A_638	NW_004521147.1	scaffold8163	638	TT	CC	CC	INTERGENIC			
SNP_117068_A_665	NW_004521147.1	scaffold8163	665	GG	AA	AA	INTERGENIC			
SNP_117069_A_4565	NW_004521148.1	scaffold8164	4565	AA	TT	TT	INTERGENIC			
SNP_117070_A_733	NW_004521158.1	scaffold8181	733	AA	TT	TT	INTERGENIC			
SNP_117071_A_1245	NW_004521159.1	scaffold8182	1245	TT	CC	CC	INTERGENIC			
SNP_117072_A_1271	NW_004521159.1	scaffold8182	1271	TT	GG	GG	INTERGENIC			
SNP_117073_A_1563	NW_004521159.1	scaffold8182	1563	CC	GG	GG	INTERGENIC			
SNP_117074_A_1586	NW_004521159.1	scaffold8182	1586	TT	CC	CC	INTERGENIC			
SNP_117075_A_486	NW_004521161.1	scaffold8185	486	TT	CC	CC	INTERGENIC			
SNP_117076_A_591	NW_004521161.1	scaffold8185	591	AA	TT	TT	INTERGENIC			
SNP_117077_A_598	NW_004521161.1	scaffold8185	598	TT	CC	CC	INTERGENIC			
SNP_117078_A_617	NW_004521161.1	scaffold8185	617	TT	CC	CC	INTERGENIC			
SNP_117079_A_661	NW_004521161.1	scaffold8185	661	AA	GG	GG	INTERGENIC			
SNP_117080_A_456	NW_004521169.1	scaffold8200	456	CC	TT	TT	INTERGENIC			
SNP_117081_A_742	NW_004521169.1	scaffold8200	742	GG	AA	AA	INTERGENIC			
SNP_117082_A_1011	NW_004521169.1	scaffold8200	1011	CC	TT	TT	INTERGENIC			
SNP_117083_A_1200	NW_004521169.1	scaffold8200	1200	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_117084_A_275	NW_004521173.1	scaffold8207	275	AA	GG	GG	SYNONYMOUS_CODING	101499061	Unknown function
SNP_117085_A_361	NW_004521173.1	scaffold8207	361	CC	TT	TT	NON_SYNONYMOUS_CODING	101499061	Unknown function
SNP_117086_A_440	NW_004521173.1	scaffold8207	440	AA	TT	TT	SYNONYMOUS_CODING	101499061	Unknown function
SNP_117087_A_636	NW_004521173.1	scaffold8207	636	AA	GG	GG	URR	101499061	Unknown function
SNP_117088_A_700	NW_004521173.1	scaffold8207	700	GG	AA	AA	URR	101499061	Unknown function
SNP_117089_A_707	NW_004521173.1	scaffold8207	707	GG	AA	AA	URR	101499061	Unknown function
SNP_117090_A_949	NW_004521173.1	scaffold8207	949	GG	TT	TT	URR	101499061	Unknown function
SNP_117091_A_977	NW_004521173.1	scaffold8207	977	AA	GG	GG	URR	101499061	Unknown function
SNP_117092_A_1004	NW_004521173.1	scaffold8207	1004	GG	TT	TT	URR	101499061	Unknown function
SNP_117093_A_1045	NW_004521173.1	scaffold8207	1045	AA	CC	CC	URR	101499061	Unknown function
SNP_117094_A_6518	NW_004521183.1	scaffold8226	6518	TT	CC	CC	INTERGENIC		
SNP_117095_A_6564	NW_004521183.1	scaffold8226	6564	AA	GG	GG	INTERGENIC		
SNP_117096_A_856	NW_004521186.1	scaffold8232	856	CC	AA	AA	INTERGENIC		
SNP_117097_A_1180	NW_004521186.1	scaffold8232	1180	AA	CC	CC	INTERGENIC		
SNP_117098_A_1404	NW_004521186.1	scaffold8232	1404	CC	TT	TT	INTERGENIC		
SNP_117099_A_1424	NW_004521186.1	scaffold8232	1424	TT	CC	CC	INTERGENIC		
SNP_117100_A_516	NW_004521193.1	scaffold8241	516	GG	AA	AA	INTERGENIC		
SNP_117101_A_1469	NW_004521193.1	scaffold8241	1469	GG	CC	CC	INTERGENIC		
SNP_117102_A_1474	NW_004521193.1	scaffold8241	1474	TT	AA	AA	INTERGENIC		
SNP_117103_A_2486	NW_004521193.1	scaffold8241	2486	AA	TT	TT	INTERGENIC		
SNP_117104_A_2525	NW_004521193.1	scaffold8241	2525	AA	TT	TT	INTERGENIC		
SNP_117105_A_516	NW_004521195.1	scaffold8244	516	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117106_A_623	NW_004521197.1	scaffold8247	623	TT	CC	CC	INTERGENIC			
SNP_117107_A_2928	NW_004521201.1	scaffold8253	2928	TT	CC	CC	INTERGENIC			
SNP_117108_A_3312	NW_004521201.1	scaffold8253	3312	TT	AA	AA	INTERGENIC			
SNP_117109_A_3695	NW_004521201.1	scaffold8253	3695	GG	AA	AA	INTERGENIC			
SNP_117110_A_20518	NW_004521205.1	scaffold8259	20518	CC	AA	AA	INTERGENIC			
SNP_117112_A_64	NW_004521214.1	scaffold8274	64	AA	GG	GG	INTERGENIC			
SNP_117113_A_123	NW_004521214.1	scaffold8274	123	AA	GG	GG	INTERGENIC			
SNP_117114_A_124	NW_004521214.1	scaffold8274	124	AA	TT	TT	INTERGENIC			
SNP_117115_A_210	NW_004521215.1	scaffold8275	210	AA	TT	TT	INTERGENIC			
SNP_117116_A_256	NW_004521215.1	scaffold8275	256	TT	AA	AA	INTERGENIC			
SNP_117117_A_263	NW_004521215.1	scaffold8275	263	GG	AA	AA	INTERGENIC			
SNP_117118_A_391	NW_004521215.1	scaffold8275	391	TT	GG	GG	INTERGENIC			
SNP_117119_A_483	NW_004521215.1	scaffold8275	483	GG	CC	CC	INTERGENIC			
SNP_117120_A_510	NW_004521215.1	scaffold8275	510	TT	CC	CC	INTERGENIC			
SNP_117121_A_346	NW_004521221.1	scaffold8292	346	TT	CC	CC	INTERGENIC			
SNP_117122_A_90	NW_004521222.1	scaffold8294	90	CC	TT	TT	INTERGENIC			
SNP_117123_A_242	NW_004521222.1	scaffold8294	242	GG	AA	AA	INTERGENIC			
SNP_117124_A_536	NW_004521222.1	scaffold8294	536	CC	AA	AA	INTERGENIC			
SNP_117125_A_31	NW_004521223.1	scaffold8297	31	AA	GG	GG	INTERGENIC			
SNP_117126_A_61	NW_004521223.1	scaffold8297	61	GG	TT	TT	INTERGENIC			
SNP_117127_A_79	NW_004521223.1	scaffold8297	79	TT	GG	GG	INTERGENIC			
SNP_117129_A_425	NW_004521223.1	scaffold8297	425	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117130_A_1454	NW_004521223.1	scaffold8297	1454	CC	TT	TT	INTERGENIC			
SNP_117131_A_1923	NW_004521223.1	scaffold8297	1923	TT	AA	AA	INTERGENIC			
SNP_117132_A_1924	NW_004521223.1	scaffold8297	1924	TT	AA	AA	INTERGENIC			
SNP_117133_A_1997	NW_004521223.1	scaffold8297	1997	CC	AA	AA	INTERGENIC			
SNP_117134_A_2805	NW_004521223.1	scaffold8297	2805	AA	TT	TT	INTERGENIC			
SNP_117135_A_2935	NW_004521223.1	scaffold8297	2935	CC	AA	AA	INTERGENIC			
SNP_117136_A_3281	NW_004521223.1	scaffold8297	3281	TT	CC	CC	INTERGENIC			
SNP_117137_A_3291	NW_004521223.1	scaffold8297	3291	GG	AA	AA	INTERGENIC			
SNP_117139_A_6079	NW_004521224.1	scaffold8301	6079	GG	AA	AA	INTERGENIC			
SNP_117140_A_6307	NW_004521224.1	scaffold8301	6307	TT	CC	CC	INTERGENIC			
SNP_117141_A_6608	NW_004521224.1	scaffold8301	6608	GG	TT	TT	INTERGENIC			
SNP_117142_A_6624	NW_004521224.1	scaffold8301	6624	AA	TT	TT	INTERGENIC			
SNP_117143_A_6689	NW_004521224.1	scaffold8301	6689	CC	TT	TT	INTERGENIC			
SNP_117144_A_6722	NW_004521224.1	scaffold8301	6722	AA	TT	TT	INTERGENIC			
SNP_117145_A_6747	NW_004521224.1	scaffold8301	6747	CC	AA	AA	INTERGENIC			
SNP_117146_A_6762	NW_004521224.1	scaffold8301	6762	TT	CC	CC	INTERGENIC			
SNP_117147_A_6876	NW_004521224.1	scaffold8301	6876	GG	AA	AA	INTERGENIC			
SNP_117148_A_6880	NW_004521224.1	scaffold8301	6880	AA	GG	GG	INTERGENIC			
SNP_117149_A_6923	NW_004521224.1	scaffold8301	6923	TT	AA	AA	INTERGENIC			
SNP_117150_A_88	NW_004521231.1	scaffold8309	88	CC	GG	GG	INTERGENIC			
SNP_117151_A_314	NW_004521231.1	scaffold8309	314	AA	CC	CC	INTERGENIC			
SNP_117152_A_64	NW_004521234.1	scaffold8314	64	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117153_A_88	NW_004521234.1	scaffold8314	88	TT	CC	CC	INTERGENIC			
SNP_117154_A_164	NW_004521234.1	scaffold8314	164	GG	AA	AA	INTERGENIC			
SNP_117156_A_416	NW_004521234.1	scaffold8314	416	AA	TT	TT	INTERGENIC			
SNP_117157_A_542	NW_004521234.1	scaffold8314	542	TT	CC	CC	INTERGENIC			
SNP_117158_A_614	NW_004521234.1	scaffold8314	614	AA	TT	TT	INTERGENIC			
SNP_117159_A_637	NW_004521234.1	scaffold8314	637	GG	AA	AA	INTERGENIC			
SNP_117160_A_703	NW_004521234.1	scaffold8314	703	AA	GG	GG	INTERGENIC			
SNP_117161_A_718	NW_004521234.1	scaffold8314	718	GG	AA	AA	INTERGENIC			
SNP_117162_A_849	NW_004521234.1	scaffold8314	849	AA	CC	CC	INTERGENIC			
SNP_117163_A_856	NW_004521234.1	scaffold8314	856	AA	GG	GG	INTERGENIC			
SNP_117165_A_914	NW_004521234.1	scaffold8314	914	AA	GG	GG	INTERGENIC			
SNP_117166_A_1107	NW_004521234.1	scaffold8314	1107	TT	AA	AA	INTERGENIC			
SNP_117167_A_1177	NW_004521234.1	scaffold8314	1177	TT	GG	GG	INTERGENIC			
SNP_117168_A_1212	NW_004521234.1	scaffold8314	1212	CC	AA	AA	INTERGENIC			
SNP_117169_A_1238	NW_004521234.1	scaffold8314	1238	TT	GG	GG	INTERGENIC			
SNP_117171_A_1355	NW_004521234.1	scaffold8314	1355	CC	TT	TT	INTERGENIC			
SNP_117172_A_1621	NW_004521234.1	scaffold8314	1621	GG	AA	AA	INTERGENIC			
SNP_117173_A_1818	NW_004521234.1	scaffold8314	1818	TT	AA	AA	INTERGENIC			
SNP_117175_A_17425	NW_004521235.1	scaffold8315	17425	CC	GG	GG	INTERGENIC			
SNP_117176_A_17533	NW_004521235.1	scaffold8315	17533	TT	CC	CC	INTERGENIC			
SNP_117178_A_18397	NW_004521235.1	scaffold8315	18397	AA	CC	CC	INTERGENIC			
SNP_117179_A_18398	NW_004521235.1	scaffold8315	18398	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117180_A_18408	NW_004521235.1	scaffold8315	18408	CC	GG	GG	INTERGENIC			
SNP_117181_A_18573	NW_004521235.1	scaffold8315	18573	AA	GG	GG	INTERGENIC			
SNP_117183_A_19231	NW_004521235.1	scaffold8315	19231	TT	AA	AA	INTERGENIC			
SNP_117184_A_19233	NW_004521235.1	scaffold8315	19233	AA	TT	TT	INTERGENIC			
SNP_117185_A_19284	NW_004521235.1	scaffold8315	19284	AA	CC	CC	INTERGENIC			
SNP_117186_A_19625	NW_004521235.1	scaffold8315	19625	CC	TT	TT	INTERGENIC			
SNP_117187_A_19915	NW_004521235.1	scaffold8315	19915	CC	TT	TT	INTERGENIC			
SNP_117188_A_20215	NW_004521235.1	scaffold8315	20215	CC	AA	AA	INTERGENIC			
SNP_117190_A_20416	NW_004521235.1	scaffold8315	20416	CC	GG	GG	INTERGENIC			
SNP_117191_A_20417	NW_004521235.1	scaffold8315	20417	GG	AA	AA	INTERGENIC			
SNP_117192_A_20418	NW_004521235.1	scaffold8315	20418	TT	AA	AA	INTERGENIC			
SNP_117193_A_20419	NW_004521235.1	scaffold8315	20419	TT	AA	AA	INTERGENIC			
SNP_117194_A_20420	NW_004521235.1	scaffold8315	20420	AA	TT	TT	INTERGENIC			
SNP_117195_A_20424	NW_004521235.1	scaffold8315	20424	AA	TT	TT	INTERGENIC			
SNP_117196_A_20440	NW_004521235.1	scaffold8315	20440	GG	TT	TT	INTERGENIC			
SNP_117198_A_20517	NW_004521235.1	scaffold8315	20517	TT	CC	CC	INTERGENIC			
SNP_117199_A_20573	NW_004521235.1	scaffold8315	20573	TT	GG	GG	INTERGENIC			
SNP_117200_A_20645	NW_004521235.1	scaffold8315	20645	TT	GG	GG	INTERGENIC			
SNP_117201_A_20711	NW_004521235.1	scaffold8315	20711	CC	TT	TT	INTERGENIC			
SNP_117202_A_64	NW_004521241.1	scaffold8325	64	AA	TT	TT	INTERGENIC			
SNP_117203_A_93	NW_004521241.1	scaffold8325	93	AA	CC	CC	INTERGENIC			
SNP_117204_A_110	NW_004521241.1	scaffold8325	110	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117205_A_1045	NW_004521245.1	scaffold8332	1045	GG	TT	TT	INTERGENIC			
SNP_117206_A_659	NW_004521250.1	scaffold8340	659	AA	CC	CC	INTERGENIC			
SNP_117207_A_64	NW_004521257.1	scaffold8357	64	GG	AA	AA	INTERGENIC			
SNP_117208_A_98	NW_004521257.1	scaffold8357	98	AA	TT	TT	INTERGENIC			
SNP_117209_A_342	NW_004521257.1	scaffold8357	342	TT	AA	AA	INTERGENIC			
SNP_117210_A_412	NW_004521257.1	scaffold8357	412	GG	TT	TT	INTERGENIC			
SNP_117211_A_171	NW_004521261.1	scaffold8366	171	AA	TT	TT	INTERGENIC			
SNP_117212_A_440	NW_004521261.1	scaffold8366	440	CC	TT	TT	INTERGENIC			
SNP_117213_A_504	NW_004521261.1	scaffold8366	504	CC	TT	TT	INTERGENIC			
SNP_117214_A_262	NW_004521263.1	scaffold8368	262	TT	CC	CC	INTERGENIC			
SNP_117215_A_619	NW_004521263.1	scaffold8368	619	AA	GG	GG	INTERGENIC			
SNP_117216_A_679	NW_004521263.1	scaffold8368	679	CC	GG	GG	INTERGENIC			
SNP_117217_A_707	NW_004521263.1	scaffold8368	707	AA	GG	GG	INTERGENIC			
SNP_117218_A_718	NW_004521263.1	scaffold8368	718	AA	GG	GG	INTERGENIC			
SNP_117219_A_828	NW_004521263.1	scaffold8368	828	TT	CC	CC	INTERGENIC			
SNP_117220_A_976	NW_004521263.1	scaffold8368	976	AA	GG	GG	INTERGENIC			
SNP_117221_A_1477	NW_004521266.1	scaffold8375	1477	GG	AA	AA	INTERGENIC			
SNP_117222_A_89	NW_004521267.1	scaffold8377	89	AA	GG	GG	INTERGENIC			
SNP_117224_A_869	NW_004521268.1	scaffold8378	869	CC	AA	AA	INTERGENIC			
SNP_117225_A_872	NW_004521268.1	scaffold8378	872	GG	TT	TT	INTERGENIC			
SNP_117226_A_876	NW_004521268.1	scaffold8378	876	GG	AA	AA	INTERGENIC			
SNP_117227_A_912	NW_004521268.1	scaffold8378	912	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117228_A_1832	NW_004521268.1	scaffold8378	1832	GG	AA	AA	INTERGENIC			
SNP_117230_A_537	NW_004521270.1	scaffold8380	537	GG	AA	AA	INTERGENIC			
SNP_117231_A_546	NW_004521270.1	scaffold8380	546	AA	GG	GG	INTERGENIC			
SNP_117232_A_595	NW_004521270.1	scaffold8380	595	AA	CC	CC	INTERGENIC			
SNP_117233_A_620	NW_004521270.1	scaffold8380	620	CC	GG	GG	INTERGENIC			
SNP_117234_A_642	NW_004521270.1	scaffold8380	642	CC	TT	TT	INTERGENIC			
SNP_117235_A_1088	NW_004521270.1	scaffold8380	1088	CC	TT	TT	INTERGENIC			
SNP_117236_A_89	NW_004521273.1	scaffold8385	89	TT	AA	AA	INTERGENIC			
SNP_117237_A_141	NW_004521273.1	scaffold8385	141	TT	GG	GG	INTERGENIC			
SNP_117238_A_146	NW_004521273.1	scaffold8385	146	GG	CC	CC	INTERGENIC			
SNP_117239_A_276	NW_004521273.1	scaffold8385	276	TT	AA	AA	INTERGENIC			
SNP_117240_A_279	NW_004521273.1	scaffold8385	279	TT	CC	CC	INTERGENIC			
SNP_117241_A_373	NW_004521273.1	scaffold8385	373	CC	TT	TT	INTERGENIC			
SNP_117242_A_396	NW_004521273.1	scaffold8385	396	CC	TT	TT	INTERGENIC			
SNP_117243_A_435	NW_004521273.1	scaffold8385	435	CC	AA	AA	INTERGENIC			
SNP_117244_A_508	NW_004521273.1	scaffold8385	508	AA	TT	TT	INTERGENIC			
SNP_117245_A_178	NW_004521276.1	scaffold8393	178	CC	TT	TT	INTERGENIC			
SNP_117246_A_1094	NW_004521276.1	scaffold8393	1094	TT	AA	AA	INTERGENIC			
SNP_117247_A_1134	NW_004521276.1	scaffold8393	1134	CC	AA	AA	INTERGENIC			
SNP_117248_A_1323	NW_004521276.1	scaffold8393	1323	AA	GG	GG	INTERGENIC			
SNP_117249_A_1440	NW_004521276.1	scaffold8393	1440	CC	AA	AA	INTERGENIC			
SNP_117251_A_1597	NW_004521276.1	scaffold8393	1597	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117252_A_2653	NW_004521276.1	scaffold8393	2653	AA	CC	CC	INTERGENIC			
SNP_117254_A_1010	NW_004521284.1	scaffold8412	1010	AA	TT	TT	INTERGENIC			
SNP_117255_A_1225	NW_004521284.1	scaffold8412	1225	AA	GG	GG	INTERGENIC			
SNP_117256_A_1308	NW_004521284.1	scaffold8412	1308	GG	TT	TT	INTERGENIC			
SNP_117257_A_429	NW_004521286.1	scaffold8421	429	AA	GG	GG	INTERGENIC			
SNP_117258_A_1306	NW_004521292.1	scaffold8442	1306	GG	AA	AA	INTERGENIC			
SNP_117259_A_1315	NW_004521292.1	scaffold8442	1315	AA	GG	GG	INTERGENIC			
SNP_117261_A_1779	NW_004521292.1	scaffold8442	1779	TT	AA	AA	INTERGENIC			
SNP_117262_A_1871	NW_004521292.1	scaffold8442	1871	TT	CC	CC	INTERGENIC			
SNP_117263_A_1948	NW_004521292.1	scaffold8442	1948	GG	AA	AA	INTERGENIC			
SNP_117264_A_1982	NW_004521292.1	scaffold8442	1982	AA	CC	CC	INTERGENIC			
SNP_117265_A_2601	NW_004521292.1	scaffold8442	2601	AA	CC	CC	INTERGENIC			
SNP_117266_A_2602	NW_004521292.1	scaffold8442	2602	TT	CC	CC	INTERGENIC			
SNP_117267_A_2718	NW_004521292.1	scaffold8442	2718	TT	GG	GG	INTERGENIC			
SNP_117268_A_2738	NW_004521292.1	scaffold8442	2738	TT	GG	GG	INTERGENIC			
SNP_117269_A_334	NW_004521294.1	scaffold8445	334	GG	CC	CC	INTERGENIC			
SNP_117270_A_4920	NW_004521294.1	scaffold8445	4920	AA	CC	CC	DRR	101499681	uncharacterized LOC101499681	
SNP_117271_A_4944	NW_004521294.1	scaffold8445	4944	TT	CC	CC	DRR	101499681	uncharacterized LOC101499681	
SNP_117272_A_5129	NW_004521294.1	scaffold8445	5129	TT	GG	GG	SYNONYMOUS_CODING	101499681	uncharacterized LOC101499681	
SNP_117273_A_5150	NW_004521294.1	scaffold8445	5150	GG	AA	AA	SYNONYMOUS_CODING	101499681	uncharacterized LOC101499681	
SNP_117274_A_5274	NW_004521294.1	scaffold8445	5274	GG	CC	CC	NON_SYNONYMOUS_CODING	101499681	uncharacterized LOC101499681	
SNP_117275_A_5361	NW_004521294.1	scaffold8445	5361	AA	GG	GG	URR	101499681	uncharacterized LOC101499681	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_117276_A_5389	NW_004521294.1	scaffold8445	5389	CC	TT	TT	URR	101499681	uncharacterized LOC101499681
SNP_117277_A_5426	NW_004521294.1	scaffold8445	5426	GG	TT	TT	URR	101499681	uncharacterized LOC101499681
SNP_117278_A_5528	NW_004521294.1	scaffold8445	5528	AA	GG	GG	URR	101499681	uncharacterized LOC101499681
SNP_117279_A_5641	NW_004521294.1	scaffold8445	5641	TT	AA	AA	URR	101499681	uncharacterized LOC101499681
SNP_117280_A_5780	NW_004521294.1	scaffold8445	5780	AA	TT	TT	URR	101499681	uncharacterized LOC101499681
SNP_117281_A_5815	NW_004521294.1	scaffold8445	5815	CC	AA	AA	URR	101499681	uncharacterized LOC101499681
SNP_117282_A_5971	NW_004521294.1	scaffold8445	5971	TT	AA	AA	URR	101499681	uncharacterized LOC101499681
SNP_117283_A_6015	NW_004521294.1	scaffold8445	6015	GG	CC	CC	URR	101499681	uncharacterized LOC101499681
SNP_117284_A_6044	NW_004521294.1	scaffold8445	6044	CC	AA	AA	URR	101499681	uncharacterized LOC101499681
SNP_117285_A_6092	NW_004521294.1	scaffold8445	6092	AA	TT	TT	URR	101499681	uncharacterized LOC101499681
SNP_117286_A_6186	NW_004521294.1	scaffold8445	6186	CC	AA	AA	URR	101499681	uncharacterized LOC101499681
SNP_117287_A_6212	NW_004521294.1	scaffold8445	6212	AA	GG	GG	URR	101499681	uncharacterized LOC101499681
SNP_117288_A_6350	NW_004521294.1	scaffold8445	6350	CC	TT	TT	URR	101499681	uncharacterized LOC101499681
SNP_117289_A_6411	NW_004521294.1	scaffold8445	6411	AA	GG	GG	URR	101499681	uncharacterized LOC101499681
SNP_117290_A_959	NW_004521295.1	scaffold8449	959	TT	AA	AA	INTERGENIC		
SNP_117291_A_153	NW_004521297.1	scaffold8455	153	AA	TT	TT	INTERGENIC		
SNP_117292_A_360	NW_004521297.1	scaffold8455	360	TT	AA	AA	INTERGENIC		
SNP_117293_A_384	NW_004521297.1	scaffold8455	384	GG	AA	AA	INTERGENIC		
SNP_117294_A_667	NW_004521297.1	scaffold8455	667	CC	TT	TT	INTERGENIC		
SNP_117295_A_713	NW_004521297.1	scaffold8455	713	GG	AA	AA	INTERGENIC		
SNP_117296_A_714	NW_004521297.1	scaffold8455	714	GG	AA	AA	INTERGENIC		
SNP_117297_A_731	NW_004521297.1	scaffold8455	731	GG	TT	TT	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117298_A_2861	NW_004521301.1	scaffold8461	2861	TT	AA	AA	INTERGENIC			
SNP_117299_A_3638	NW_004521301.1	scaffold8461	3638	AA	CC	CC	INTERGENIC			
SNP_117300_A_3743	NW_004521301.1	scaffold8461	3743	CC	AA	AA	INTERGENIC			
SNP_117301_A_772	NW_004521305.1	scaffold8468	772	AA	GG	GG	INTERGENIC			
SNP_117302_A_973	NW_004521305.1	scaffold8468	973	CC	TT	TT	INTERGENIC			
SNP_117303_A_220	NW_004521306.1	scaffold8469	220	GG	AA	AA	INTERGENIC			
SNP_117304_A_227	NW_004521306.1	scaffold8469	227	AA	GG	GG	INTERGENIC			
SNP_117305_A_375	NW_004521306.1	scaffold8469	375	GG	CC	CC	INTERGENIC			
SNP_117306_A_427	NW_004521306.1	scaffold8469	427	GG	TT	TT	INTERGENIC			
SNP_117307_A_468	NW_004521306.1	scaffold8469	468	GG	CC	CC	INTERGENIC			
SNP_117308_A_690	NW_004521307.1	scaffold8471	690	GG	AA	AA	INTERGENIC			
SNP_117309_A_64	NW_004521313.1	scaffold8479	64	AA	GG	GG	INTERGENIC			
SNP_117310_A_116	NW_004521313.1	scaffold8479	116	GG	CC	CC	INTERGENIC			
SNP_117311_A_160	NW_004521313.1	scaffold8479	160	TT	AA	AA	INTERGENIC			
SNP_117312_A_173	NW_004521313.1	scaffold8479	173	GG	TT	TT	INTERGENIC			
SNP_117313_A_243	NW_004521313.1	scaffold8479	243	CC	TT	TT	INTERGENIC			
SNP_117314_A_326	NW_004521313.1	scaffold8479	326	AA	TT	TT	INTERGENIC			
SNP_117315_A_352	NW_004521313.1	scaffold8479	352	CC	TT	TT	INTERGENIC			
SNP_117316_A_510	NW_004521313.1	scaffold8479	510	GG	CC	AA	INTERGENIC			
SNP_117317_A_560	NW_004521313.1	scaffold8479	560	AA	GG	GG	INTERGENIC			
SNP_117318_A_840	NW_004521313.1	scaffold8479	840	AA	TT	TT	INTERGENIC			
SNP_117319_A_900	NW_004521313.1	scaffold8479	900	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117320_A_972	NW_004521313.1	scaffold8479	972	CC	AA	AA	INTERGENIC			
SNP_117321_A_1003	NW_004521313.1	scaffold8479	1003	GG	TT	TT	INTERGENIC			
SNP_117322_A_1601	NW_004521313.1	scaffold8479	1601	GG	AA	AA	INTERGENIC			
SNP_117323_A_1602	NW_004521313.1	scaffold8479	1602	TT	AA	AA	INTERGENIC			
SNP_117324_A_1603	NW_004521313.1	scaffold8479	1603	TT	AA	AA	INTERGENIC			
SNP_117325_A_1706	NW_004521313.1	scaffold8479	1706	TT	CC	CC	INTERGENIC			
SNP_117326_A_1714	NW_004521313.1	scaffold8479	1714	AA	CC	CC	INTERGENIC			
SNP_117327_A_1796	NW_004521313.1	scaffold8479	1796	AA	GG	GG	INTERGENIC			
SNP_117328_A_11093	NW_004521315.1	scaffold8483	11093	TT	CC	CC	INTERGENIC			
SNP_117329_A_406	NW_004521316.1	scaffold8487	406	TT	GG	GG	INTERGENIC			
SNP_117330_A_473	NW_004521316.1	scaffold8487	473	AA	GG	GG	INTERGENIC			
SNP_117331_A_485	NW_004521316.1	scaffold8487	485	TT	AA	AA	INTERGENIC			
SNP_117332_A_531	NW_004521316.1	scaffold8487	531	CC	TT	TT	INTERGENIC			
SNP_117333_A_4027	NW_004521320.1	scaffold8493	4027	GG	AA	AA	INTERGENIC			
SNP_117334_A_4111	NW_004521320.1	scaffold8493	4111	TT	GG	GG	INTERGENIC			
SNP_117335_A_4114	NW_004521320.1	scaffold8493	4114	TT	CC	CC	INTERGENIC			
SNP_117336_A_4122	NW_004521320.1	scaffold8493	4122	TT	CC	CC	INTERGENIC			
SNP_117337_A_4124	NW_004521320.1	scaffold8493	4124	GG	AA	AA	INTERGENIC			
SNP_117338_A_4126	NW_004521320.1	scaffold8493	4126	CC	AA	AA	INTERGENIC			
SNP_117339_A_4127	NW_004521320.1	scaffold8493	4127	AA	TT	TT	INTERGENIC			
SNP_117340_A_4567	NW_004521320.1	scaffold8493	4567	CC	TT	TT	INTERGENIC			
SNP_117341_A_6882	NW_004521320.1	scaffold8493	6882	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117342_A_7150	NW_004521320.1	scaffold8493	7150	TT	CC	CC	INTERGENIC			
SNP_117343_A_7657	NW_004521320.1	scaffold8493	7657	AA	TT	TT	INTERGENIC			
SNP_117344_A_8321	NW_004521320.1	scaffold8493	8321	CC	TT	TT	INTERGENIC			
SNP_117345_A_9110	NW_004521320.1	scaffold8493	9110	GG	TT	TT	INTERGENIC			
SNP_117347_A_9834	NW_004521320.1	scaffold8493	9834	AA	CC	CC	INTERGENIC			
SNP_117348_A_9969	NW_004521320.1	scaffold8493	9969	AA	TT	TT	INTERGENIC			
SNP_117349_A_10594	NW_004521320.1	scaffold8493	10594	GG	AA	AA	INTERGENIC			
SNP_117350_A_10603	NW_004521320.1	scaffold8493	10603	GG	TT	TT	INTERGENIC			
SNP_117351_A_10775	NW_004521320.1	scaffold8493	10775	TT	CC	CC	INTERGENIC			
SNP_117352_A_11054	NW_004521320.1	scaffold8493	11054	CC	GG	GG	INTERGENIC			
SNP_117353_A_11098	NW_004521320.1	scaffold8493	11098	TT	CC	CC	INTERGENIC			
SNP_117354_A_11653	NW_004521320.1	scaffold8493	11653	TT	AA	AA	INTERGENIC			
SNP_117355_A_12194	NW_004521320.1	scaffold8493	12194	AA	CC	CC	INTERGENIC			
SNP_117356_A_12414	NW_004521320.1	scaffold8493	12414	AA	GG	GG	INTERGENIC			
SNP_117357_A_12908	NW_004521320.1	scaffold8493	12908	TT	AA	AA	INTERGENIC			
SNP_117358_A_16201	NW_004521320.1	scaffold8493	16201	GG	AA	AA	INTERGENIC			
SNP_117359_A_16486	NW_004521320.1	scaffold8493	16486	TT	CC	CC	INTERGENIC			
SNP_117360_A_16740	NW_004521320.1	scaffold8493	16740	AA	TT	TT	INTERGENIC			
SNP_117361_A_17878	NW_004521320.1	scaffold8493	17878	GG	CC	CC	INTERGENIC			
SNP_117362_A_18284	NW_004521320.1	scaffold8493	18284	GG	AA	AA	INTERGENIC			
SNP_117363_A_18289	NW_004521320.1	scaffold8493	18289	CC	TT	TT	INTERGENIC			
SNP_117364_A_487	NW_004521321.1	scaffold8495	487	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117365_A_347	NW_004521326.1	scaffold8502	347	GG	CC	CC	INTERGENIC			
SNP_117366_A_551	NW_004521336.1	scaffold8522	551	AA	TT	TT	INTERGENIC			
SNP_117367_A_591	NW_004521336.1	scaffold8522	591	TT	GG	GG	INTERGENIC			
SNP_117368_A_654	NW_004521336.1	scaffold8522	654	TT	AA	AA	INTERGENIC			
SNP_117369_A_91	NW_004521348.1	scaffold8550	91	TT	CC	CC	INTERGENIC			
SNP_117370_A_206	NW_004521348.1	scaffold8550	206	AA	GG	GG	INTERGENIC			
SNP_117371_A_358	NW_004521348.1	scaffold8550	358	AA	CC	CC	INTERGENIC			
SNP_117372_A_396	NW_004521348.1	scaffold8550	396	AA	CC	CC	INTERGENIC			
SNP_117373_A_441	NW_004521348.1	scaffold8550	441	AA	TT	TT	INTERGENIC			
SNP_117374_A_488	NW_004521348.1	scaffold8550	488	TT	CC	CC	INTERGENIC			
SNP_117375_A_516	NW_004521348.1	scaffold8550	516	TT	GG	GG	INTERGENIC			
SNP_117376_A_518	NW_004521348.1	scaffold8550	518	AA	GG	GG	INTERGENIC			
SNP_117377_A_561	NW_004521348.1	scaffold8550	561	GG	AA	AA	INTERGENIC			
SNP_117379_A_663	NW_004521348.1	scaffold8550	663	GG	TT	TT	INTERGENIC			
SNP_117380_A_690	NW_004521348.1	scaffold8550	690	AA	GG	GG	INTERGENIC			
SNP_117381_A_731	NW_004521348.1	scaffold8550	731	CC	AA	AA	INTERGENIC			
SNP_117382_A_516	NW_004521350.1	scaffold8553	516	CC	TT	TT	INTERGENIC			
SNP_117383_A_576	NW_004521350.1	scaffold8553	576	CC	AA	AA	INTERGENIC			
SNP_117384_A_587	NW_004521350.1	scaffold8553	587	TT	AA	AA	INTERGENIC			
SNP_117385_A_876	NW_004521350.1	scaffold8553	876	AA	GG	GG	INTERGENIC			
SNP_117386_A_882	NW_004521350.1	scaffold8553	882	AA	CC	CC	INTERGENIC			
SNP_117387_A_946	NW_004521350.1	scaffold8553	946	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117388_A_958	NW_004521350.1	scaffold8553	958	TT	AA	AA	INTERGENIC			
SNP_117389_A_959	NW_004521350.1	scaffold8553	959	GG	AA	AA	INTERGENIC			
SNP_117390_A_1000	NW_004521350.1	scaffold8553	1000	TT	AA	AA	INTERGENIC			
SNP_117391_A_6383	NW_004521354.1	scaffold8565	6383	AA	GG	GG	INTERGENIC			
SNP_117392_A_6395	NW_004521354.1	scaffold8565	6395	AA	GG	GG	INTERGENIC			
SNP_117393_A_6446	NW_004521354.1	scaffold8565	6446	AA	CC	CC	INTERGENIC			
SNP_117395_A_6905	NW_004521354.1	scaffold8565	6905	TT	AA	AA	INTERGENIC			
SNP_117396_A_7013	NW_004521354.1	scaffold8565	7013	CC	TT	TT	INTERGENIC			
SNP_117397_A_7022	NW_004521354.1	scaffold8565	7022	AA	GG	GG	INTERGENIC			
SNP_117398_A_7094	NW_004521354.1	scaffold8565	7094	AA	TT	TT	INTERGENIC			
SNP_117399_A_7100	NW_004521354.1	scaffold8565	7100	TT	GG	GG	INTERGENIC			
SNP_117401_A_7184	NW_004521354.1	scaffold8565	7184	AA	CC	CC	INTERGENIC			
SNP_117402_A_7257	NW_004521354.1	scaffold8565	7257	TT	CC	CC	INTERGENIC			
SNP_117403_A_64	NW_004521355.1	scaffold8571	64	GG	AA	AA	INTERGENIC			
SNP_117404_A_335	NW_004521355.1	scaffold8571	335	GG	CC	CC	INTERGENIC			
SNP_117405_A_351	NW_004521355.1	scaffold8571	351	TT	AA	AA	INTERGENIC			
SNP_117406_A_360	NW_004521355.1	scaffold8571	360	CC	AA	AA	INTERGENIC			
SNP_117407_A_377	NW_004521355.1	scaffold8571	377	GG	TT	TT	INTERGENIC			
SNP_117408_A_1085	NW_004521355.1	scaffold8571	1085	AA	GG	GG	INTERGENIC			
SNP_117409_A_1093	NW_004521355.1	scaffold8571	1093	TT	CC	CC	INTERGENIC			
SNP_117410_A_1150	NW_004521355.1	scaffold8571	1150	AA	GG	GG	INTERGENIC			
SNP_117411_A_791	NW_004521357.1	scaffold8577	791	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117412_A_20705	NW_004521368.1	scaffold8594	20705	GG	CC	CC	INTERGENIC			
SNP_117413_A_151	NW_004521370.1	scaffold8602	151	CC	GG	GG	INTERGENIC			
SNP_117414_A_101	NW_004521372.1	scaffold8604	101	AA	TT	TT	INTERGENIC			
SNP_117415_A_245	NW_004521372.1	scaffold8604	245	CC	TT	TT	INTERGENIC			
SNP_117416_A_246	NW_004521372.1	scaffold8604	246	TT	AA	AA	INTERGENIC			
SNP_117417_A_375	NW_004521372.1	scaffold8604	375	CC	TT	TT	INTERGENIC			
SNP_117418_A_671	NW_004521372.1	scaffold8604	671	AA	GG	GG	INTERGENIC			
SNP_117419_A_770	NW_004521372.1	scaffold8604	770	AA	CC	CC	INTERGENIC			
SNP_117420_A_1295	NW_004521372.1	scaffold8604	1295	CC	TT	TT	INTERGENIC			
SNP_117421_A_1350	NW_004521372.1	scaffold8604	1350	TT	CC	CC	INTERGENIC			
SNP_117422_A_1401	NW_004521372.1	scaffold8604	1401	AA	TT	TT	INTERGENIC			
SNP_117423_A_336	NW_004521377.1	scaffold8620	336	AA	TT	TT	INTERGENIC			
SNP_117424_A_629	NW_004521377.1	scaffold8620	629	GG	AA	AA	INTERGENIC			
SNP_117425_A_646	NW_004521377.1	scaffold8620	646	GG	AA	AA	INTERGENIC			
SNP_117426_A_699	NW_004521377.1	scaffold8620	699	GG	TT	TT	INTERGENIC			
SNP_117427_A_872	NW_004521377.1	scaffold8620	872	CC	AA	AA	INTERGENIC			
SNP_117429_A_1330	NW_004521377.1	scaffold8620	1330	TT	GG	GG	INTERGENIC			
SNP_117430_A_309	NW_004521381.1	scaffold8625	309	CC	AA	AA	INTERGENIC			
SNP_117431_A_1734	NW_004521384.1	scaffold8628	1734	TT	CC	CC	INTERGENIC			
SNP_117432_A_352	NW_004521388.1	scaffold8639	352	CC	AA	AA	INTERGENIC			
SNP_117433_A_727	NW_004521388.1	scaffold8639	727	TT	GG	GG	INTERGENIC			
SNP_117434_A_758	NW_004521388.1	scaffold8639	758	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117435_A_808	NW_004521388.1	scaffold8639	808	GG	TT	TT	INTERGENIC			
SNP_117436_A_728	NW_004521390.1	scaffold8641	728	TT	CC	CC	INTERGENIC			
SNP_117437_A_854	NW_004521390.1	scaffold8641	854	CC	TT	TT	INTERGENIC			
SNP_117438_A_867	NW_004521390.1	scaffold8641	867	CC	TT	TT	INTERGENIC			
SNP_117439_A_445	NW_004521391.1	scaffold8645	445	TT	CC	CC	INTERGENIC			
SNP_117440_A_659	NW_004521391.1	scaffold8645	659	TT	CC	CC	INTERGENIC			
SNP_117441_A_717	NW_004521391.1	scaffold8645	717	CC	TT	TT	INTERGENIC			
SNP_117442_A_1273	NW_004521391.1	scaffold8645	1273	TT	GG	GG	INTERGENIC			
SNP_117443_A_1658	NW_004521392.1	scaffold8646	1658	AA	GG	GG	INTERGENIC			
SNP_117444_A_1856	NW_004521392.1	scaffold8646	1856	GG	AA	AA	INTERGENIC			
SNP_117445_A_2029	NW_004521392.1	scaffold8646	2029	GG	AA	AA	INTERGENIC			
SNP_117446_A_2056	NW_004521392.1	scaffold8646	2056	TT	AA	AA	INTERGENIC			
SNP_117447_A_2210	NW_004521392.1	scaffold8646	2210	CC	AA	AA	INTERGENIC			
SNP_117448_A_2401	NW_004521392.1	scaffold8646	2401	GG	TT	TT	INTERGENIC			
SNP_117449_A_2402	NW_004521392.1	scaffold8646	2402	GG	AA	AA	INTERGENIC			
SNP_117450_A_2488	NW_004521392.1	scaffold8646	2488	AA	GG	GG	INTERGENIC			
SNP_117451_A_2540	NW_004521392.1	scaffold8646	2540	TT	AA	AA	INTERGENIC			
SNP_117452_A_2553	NW_004521392.1	scaffold8646	2553	TT	AA	AA	INTERGENIC			
SNP_117454_A_7314	NW_004521392.1	scaffold8646	7314	AA	CC	CC	INTERGENIC			
SNP_117455_A_2433	NW_004521393.1	scaffold8648	2433	CC	TT	TT	INTERGENIC			
SNP_117456_A_2476	NW_004521393.1	scaffold8648	2476	TT	CC	CC	INTERGENIC			
SNP_117457_A_2497	NW_004521393.1	scaffold8648	2497	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117458_A_2760	NW_004521393.1	scaffold8648	2760	AA	TT	TT	INTERGENIC			
SNP_117459_A_2783	NW_004521393.1	scaffold8648	2783	CC	GG	GG	INTERGENIC			
SNP_117460_A_3458	NW_004521393.1	scaffold8648	3458	CC	GG	GG	INTERGENIC			
SNP_117461_A_3521	NW_004521393.1	scaffold8648	3521	AA	CC	CC	INTERGENIC			
SNP_117462_A_3839	NW_004521393.1	scaffold8648	3839	TT	GG	GG	INTERGENIC			
SNP_117463_A_4179	NW_004521393.1	scaffold8648	4179	AA	GG	GG	INTERGENIC			
SNP_117464_A_4269	NW_004521393.1	scaffold8648	4269	TT	GG	GG	INTERGENIC			
SNP_117466_A_4722	NW_004521393.1	scaffold8648	4722	TT	AA	AA	INTERGENIC			
SNP_117467_A_4757	NW_004521393.1	scaffold8648	4757	AA	GG	GG	INTERGENIC			
SNP_117468_A_4758	NW_004521393.1	scaffold8648	4758	AA	GG	GG	INTERGENIC			
SNP_117469_A_4774	NW_004521393.1	scaffold8648	4774	TT	CC	CC	INTERGENIC			
SNP_117470_A_4797	NW_004521393.1	scaffold8648	4797	CC	AA	AA	INTERGENIC			
SNP_117471_A_4836	NW_004521393.1	scaffold8648	4836	CC	TT	TT	INTERGENIC			
SNP_117472_A_253	NW_004521394.1	scaffold8650	253	TT	AA	AA	INTERGENIC			
SNP_117473_A_254	NW_004521394.1	scaffold8650	254	AA	GG	GG	INTERGENIC			
SNP_117474_A_64	NW_004521398.1	scaffold8654	64	AA	TT	TT	INTERGENIC			
SNP_117475_A_385	NW_004521398.1	scaffold8654	385	AA	CC	CC	INTERGENIC			
SNP_117476_A_511	NW_004521398.1	scaffold8654	511	TT	CC	CC	INTERGENIC			
SNP_117477_A_5294	NW_004521398.1	scaffold8654	5294	TT	GG	GG	INTERGENIC			
SNP_117478_A_5555	NW_004521398.1	scaffold8654	5555	CC	AA	AA	INTERGENIC			
SNP_117479_A_5661	NW_004521398.1	scaffold8654	5661	AA	TT	TT	INTERGENIC			
SNP_117480_A_5684	NW_004521398.1	scaffold8654	5684	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117481_A_5746	NW_004521398.1	scaffold8654	5746	CC	GG	GG	INTERGENIC			
SNP_117482_A_5828	NW_004521398.1	scaffold8654	5828	AA	CC	CC	INTERGENIC			
SNP_117483_A_5880	NW_004521398.1	scaffold8654	5880	CC	AA	AA	INTERGENIC			
SNP_117484_A_494	NW_004521405.1	scaffold8668	494	GG	AA	AA	INTERGENIC			
SNP_117485_A_17	NW_004521406.1	scaffold8669	17	TT	CC	CC	INTERGENIC			
SNP_117487_A_23	NW_004521406.1	scaffold8669	23	AA	GG	GG	INTERGENIC			
SNP_117488_A_40	NW_004521406.1	scaffold8669	40	TT	AA	AA	INTERGENIC			
SNP_117489_A_44	NW_004521406.1	scaffold8669	44	GG	AA	AA	INTERGENIC			
SNP_117490_A_92	NW_004521406.1	scaffold8669	92	GG	AA	AA	INTERGENIC			
SNP_117491_A_720	NW_004521406.1	scaffold8669	720	AA	CC	CC	INTERGENIC			
SNP_117492_A_748	NW_004521406.1	scaffold8669	748	GG	CC	CC	INTERGENIC			
SNP_117493_A_467	NW_004521411.1	scaffold8675	467	TT	AA	AA	INTERGENIC			
SNP_117494_A_752	NW_004521411.1	scaffold8675	752	AA	GG	GG	INTERGENIC			
SNP_117495_A_1427	NW_004521413.1	scaffold8680	1427	AA	TT	TT	INTERGENIC			
SNP_117496_A_1578	NW_004521413.1	scaffold8680	1578	AA	CC	CC	INTERGENIC			
SNP_117497_A_1625	NW_004521413.1	scaffold8680	1625	AA	TT	TT	INTERGENIC			
SNP_117498_A_1642	NW_004521413.1	scaffold8680	1642	CC	TT	TT	INTERGENIC			
SNP_117499_A_580	NW_004521415.1	scaffold8686	580	TT	CC	CC	INTERGENIC			
SNP_117500_A_1145	NW_004521415.1	scaffold8686	1145	GG	TT	TT	INTERGENIC			
SNP_117501_A_1155	NW_004521415.1	scaffold8686	1155	CC	AA	AA	INTERGENIC			
SNP_117502_A_64	NW_004521416.1	scaffold8687	64	GG	TT	TT	INTERGENIC			
SNP_117503_A_189	NW_004521416.1	scaffold8687	189	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117504_A_752	NW_004521416.1	scaffold8687	752	GG	AA	AA	INTERGENIC			
SNP_117505_A_639	NW_004521419.1	scaffold8690	639	CC	TT	TT	INTERGENIC			
SNP_117506_A_677	NW_004521419.1	scaffold8690	677	GG	CC	CC	INTERGENIC			
SNP_117507_A_749	NW_004521419.1	scaffold8690	749	GG	AA	AA	INTERGENIC			
SNP_117508_A_381	NW_004521422.1	scaffold8696	381	AA	CC	CC	INTERGENIC			
SNP_117509_A_848	NW_004521422.1	scaffold8696	848	TT	CC	CC	INTERGENIC			
SNP_117510_A_2246	NW_004521424.1	scaffold8704	2246	TT	GG	GG	INTERGENIC			
SNP_117511_A_2559	NW_004521424.1	scaffold8704	2559	TT	CC	CC	INTERGENIC			
SNP_117512_A_388	NW_004521425.1	scaffold8705	388	AA	GG	GG	INTERGENIC			
SNP_117513_A_427	NW_004521425.1	scaffold8705	427	AA	GG	GG	INTERGENIC			
SNP_117514_A_773	NW_004521425.1	scaffold8705	773	AA	GG	GG	INTERGENIC			
SNP_117515_A_796	NW_004521425.1	scaffold8705	796	AA	GG	GG	INTERGENIC			
SNP_117516_A_898	NW_004521425.1	scaffold8705	898	TT	CC	CC	INTERGENIC			
SNP_117517_A_103	NW_004521426.1	scaffold8707	103	TT	GG	GG	INTERGENIC			
SNP_117518_A_367	NW_004521426.1	scaffold8707	367	TT	CC	CC	INTERGENIC			
SNP_117519_A_498	NW_004521426.1	scaffold8707	498	TT	CC	CC	INTERGENIC			
SNP_117521_A_649	NW_004521428.1	scaffold8709	649	TT	GG	GG	INTERGENIC			
SNP_117522_A_561	NW_004521430.1	scaffold8715	561	AA	CC	CC	INTERGENIC			
SNP_117523_A_562	NW_004521430.1	scaffold8715	562	TT	CC	CC	INTERGENIC			
SNP_117524_A_591	NW_004521430.1	scaffold8715	591	GG	AA	AA	INTERGENIC			
SNP_117525_A_645	NW_004521430.1	scaffold8715	645	TT	GG	GG	INTERGENIC			
SNP_117526_A_776	NW_004521430.1	scaffold8715	776	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117527_A_987	NW_004521430.1	scaffold8715	987	TT	CC	CC	INTERGENIC			
SNP_117528_A_1072	NW_004521430.1	scaffold8715	1072	GG	AA	AA	INTERGENIC			
SNP_117529_A_1109	NW_004521430.1	scaffold8715	1109	AA	GG	GG	INTERGENIC			
SNP_117530_A_64	NW_004521434.1	scaffold8730	64	GG	AA	AA	INTERGENIC			
SNP_117532_A_150	NW_004521434.1	scaffold8730	150	AA	GG	GG	INTERGENIC			
SNP_117533_A_154	NW_004521434.1	scaffold8730	154	TT	CC	CC	INTERGENIC			
SNP_117534_A_205	NW_004521434.1	scaffold8730	205	GG	AA	AA	INTERGENIC			
SNP_117535_A_371	NW_004521434.1	scaffold8730	371	AA	TT	TT	INTERGENIC			
SNP_117536_A_383	NW_004521434.1	scaffold8730	383	CC	TT	TT	INTERGENIC			
SNP_117537_A_386	NW_004521434.1	scaffold8730	386	TT	CC	CC	INTERGENIC			
SNP_117538_A_389	NW_004521434.1	scaffold8730	389	GG	TT	TT	INTERGENIC			
SNP_117539_A_460	NW_004521434.1	scaffold8730	460	GG	AA	AA	INTERGENIC			
SNP_117540_A_485	NW_004521434.1	scaffold8730	485	AA	GG	GG	INTERGENIC			
SNP_117541_A_517	NW_004521434.1	scaffold8730	517	TT	AA	AA	INTERGENIC			
SNP_117542_A_573	NW_004521434.1	scaffold8730	573	AA	CC	CC	INTERGENIC			
SNP_117543_A_650	NW_004521434.1	scaffold8730	650	GG	AA	AA	INTERGENIC			
SNP_117544_A_1541	NW_004521434.1	scaffold8730	1541	TT	AA	AA	INTERGENIC			
SNP_117545_A_1805	NW_004521434.1	scaffold8730	1805	AA	GG	GG	INTERGENIC			
SNP_117546_A_2013	NW_004521434.1	scaffold8730	2013	TT	CC	CC	INTERGENIC			
SNP_117548_A_471	NW_004521436.1	scaffold8733	471	CC	TT	TT	INTERGENIC			
SNP_117549_A_515	NW_004521436.1	scaffold8733	515	GG	AA	AA	INTERGENIC			
SNP_117550_A_204	NW_004521437.1	scaffold8734	204	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117551_A_271	NW_004521437.1	scaffold8734	271	AA	GG	GG	INTERGENIC			
SNP_117552_A_286	NW_004521437.1	scaffold8734	286	AA	GG	GG	INTERGENIC			
SNP_117553_A_320	NW_004521437.1	scaffold8734	320	GG	AA	AA	INTERGENIC			
SNP_117554_A_358	NW_004521437.1	scaffold8734	358	TT	CC	CC	INTERGENIC			
SNP_117555_A_540	NW_004521437.1	scaffold8734	540	AA	TT	TT	INTERGENIC			
SNP_117556_A_624	NW_004521437.1	scaffold8734	624	TT	CC	CC	INTERGENIC			
SNP_117557_A_648	NW_004521437.1	scaffold8734	648	CC	GG	GG	INTERGENIC			
SNP_117559_A_786	NW_004521437.1	scaffold8734	786	CC	GG	GG	INTERGENIC			
SNP_117561_A_816	NW_004521437.1	scaffold8734	816	TT	CC	CC	INTERGENIC			
SNP_117562_A_839	NW_004521437.1	scaffold8734	839	AA	TT	TT	INTERGENIC			
SNP_117563_A_867	NW_004521437.1	scaffold8734	867	AA	TT	TT	INTERGENIC			
SNP_117564_A_876	NW_004521437.1	scaffold8734	876	CC	AA	AA	INTERGENIC			
SNP_117565_A_947	NW_004521437.1	scaffold8734	947	TT	AA	AA	INTERGENIC			
SNP_117566_A_1033	NW_004521437.1	scaffold8734	1033	TT	GG	GG	INTERGENIC			
SNP_117568_A_1095	NW_004521437.1	scaffold8734	1095	GG	AA	AA	INTERGENIC			
SNP_117569_A_1383	NW_004521437.1	scaffold8734	1383	AA	GG	GG	INTERGENIC			
SNP_117570_A_2354	NW_004521437.1	scaffold8734	2354	TT	CC	CC	INTERGENIC			
SNP_117571_A_2413	NW_004521437.1	scaffold8734	2413	TT	AA	AA	INTERGENIC			
SNP_117572_A_1344	NW_004521441.1	scaffold8746	1344	AA	GG	GG	INTERGENIC			
SNP_117573_A_2750	NW_004521441.1	scaffold8746	2750	GG	AA	AA	INTERGENIC			
SNP_117574_A_5766	NW_004521441.1	scaffold8746	5766	CC	GG	GG	INTERGENIC			
SNP_117575_A_6406	NW_004521441.1	scaffold8746	6406	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117576_A_6414	NW_004521441.1	scaffold8746	6414	GG	AA	AA	INTERGENIC			
SNP_117577_A_6514	NW_004521441.1	scaffold8746	6514	TT	CC	CC	INTERGENIC			
SNP_117578_A_7219	NW_004521441.1	scaffold8746	7219	AA	GG	GG	INTERGENIC			
SNP_117579_A_7269	NW_004521441.1	scaffold8746	7269	GG	AA	AA	INTERGENIC			
SNP_117580_A_528	NW_004521443.1	scaffold8751	528	CC	TT	TT	URR	101501908	Unknown function	
SNP_117581_A_556	NW_004521443.1	scaffold8751	556	AA	GG	GG	URR	101501908	Unknown function	
SNP_117582_A_569	NW_004521443.1	scaffold8751	569	TT	AA	AA	URR	101501908	Unknown function	
SNP_117583_A_572	NW_004521443.1	scaffold8751	572	CC	AA	AA	URR	101501908	Unknown function	
SNP_117584_A_731	NW_004521445.1	scaffold8755	731	TT	CC	CC	INTERGENIC			
SNP_117585_A_738	NW_004521445.1	scaffold8755	738	GG	TT	TT	INTERGENIC			
SNP_117586_A_894	NW_004521445.1	scaffold8755	894	TT	CC	CC	INTERGENIC			
SNP_117587_A_1169	NW_004521450.1	scaffold8766	1169	CC	TT	TT	INTERGENIC			
SNP_117588_A_1353	NW_004521450.1	scaffold8766	1353	GG	AA	AA	INTERGENIC			
SNP_117589_A_398	NW_004521453.1	scaffold8775	398	AA	GG	GG	INTERGENIC			
SNP_117590_A_64	NW_004521454.1	scaffold8778	64	GG	TT	TT	INTERGENIC			
SNP_117591_A_93	NW_004521454.1	scaffold8778	93	AA	TT	TT	INTERGENIC			
SNP_117592_A_102	NW_004521454.1	scaffold8778	102	GG	AA	AA	INTERGENIC			
SNP_117593_A_207	NW_004521454.1	scaffold8778	207	CC	AA	AA	INTERGENIC			
SNP_117594_A_481	NW_004521454.1	scaffold8778	481	GG	AA	AA	INTERGENIC			
SNP_117595_A_555	NW_004521454.1	scaffold8778	555	CC	GG	GG	INTERGENIC			
SNP_117596_A_580	NW_004521454.1	scaffold8778	580	TT	AA	AA	INTERGENIC			
SNP_117597_A_81	NW_004521456.1	scaffold8785	81	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117598_A_328	NW_004521456.1	scaffold8785	328	AA	TT	TT	INTERGENIC			
SNP_117599_A_105	NW_004521458.1	scaffold8789	105	GG	TT	TT	INTERGENIC			
SNP_117600_A_119	NW_004521458.1	scaffold8789	119	GG	CC	CC	INTERGENIC			
SNP_117601_A_246	NW_004521458.1	scaffold8789	246	TT	GG	GG	INTERGENIC			
SNP_117602_A_350	NW_004521458.1	scaffold8789	350	TT	GG	GG	INTERGENIC			
SNP_117603_A_376	NW_004521458.1	scaffold8789	376	CC	AA	AA	INTERGENIC			
SNP_117604_A_393	NW_004521458.1	scaffold8789	393	AA	GG	GG	INTERGENIC			
SNP_117605_A_406	NW_004521458.1	scaffold8789	406	GG	AA	AA	INTERGENIC			
SNP_117606_A_545	NW_004521458.1	scaffold8789	545	AA	GG	GG	INTERGENIC			
SNP_117607_A_658	NW_004521458.1	scaffold8789	658	CC	AA	AA	INTERGENIC			
SNP_117608_A_690	NW_004521458.1	scaffold8789	690	TT	GG	GG	INTERGENIC			
SNP_117609_A_741	NW_004521458.1	scaffold8789	741	AA	GG	GG	INTERGENIC			
SNP_117610_A_771	NW_004521458.1	scaffold8789	771	CC	GG	GG	INTERGENIC			
SNP_117611_A_784	NW_004521458.1	scaffold8789	784	AA	GG	GG	INTERGENIC			
SNP_117612_A_20347	NW_004521464.1	scaffold8801	20347	AA	TT	TT	INTERGENIC			
SNP_117613_A_20424	NW_004521464.1	scaffold8801	20424	GG	CC	CC	INTERGENIC			
SNP_117614_A_20450	NW_004521464.1	scaffold8801	20450	GG	AA	AA	INTERGENIC			
SNP_117615_A_20493	NW_004521464.1	scaffold8801	20493	TT	AA	AA	INTERGENIC			
SNP_117616_A_10144	NW_004521465.1	scaffold8803	10144	TT	CC	CC	INTERGENIC			
SNP_117617_A_1194	NW_004521466.1	scaffold8806	1194	AA	GG	GG	INTRON	101502237	Unknown function	
SNP_117619_A_389	NW_004521474.1	scaffold8821	389	AA	CC	CC	INTERGENIC			
SNP_117620_A_446	NW_004521474.1	scaffold8821	446	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117621_A_364	NW_004521476.1	scaffold8824	364	CC	TT	TT	INTERGENIC			
SNP_117622_A_381	NW_004521476.1	scaffold8824	381	GG	AA	AA	INTERGENIC			
SNP_117623_A_619	NW_004521477.1	scaffold8825	619	AA	TT	TT	INTERGENIC			
SNP_117624_A_626	NW_004521477.1	scaffold8825	626	GG	AA	AA	INTERGENIC			
SNP_117626_A_1020	NW_004521477.1	scaffold8825	1020	CC	GG	GG	INTERGENIC			
SNP_117627_A_1063	NW_004521477.1	scaffold8825	1063	GG	TT	TT	INTERGENIC			
SNP_117628_A_1091	NW_004521477.1	scaffold8825	1091	GG	AA	AA	INTERGENIC			
SNP_117629_A_910	NW_004521478.1	scaffold8826	910	AA	TT	TT	INTERGENIC			
SNP_117630_A_865	NW_004521481.1	scaffold8835	865	AA	GG	GG	INTERGENIC			
SNP_117631_A_866	NW_004521481.1	scaffold8835	866	GG	CC	CC	INTERGENIC			
SNP_117632_A_875	NW_004521481.1	scaffold8835	875	GG	AA	AA	INTERGENIC			
SNP_117634_A_834	NW_004521482.1	scaffold8836	834	GG	AA	AA	INTERGENIC			
SNP_117635_A_856	NW_004521482.1	scaffold8836	856	CC	TT	TT	INTERGENIC			
SNP_117636_A_877	NW_004521482.1	scaffold8836	877	AA	GG	GG	INTERGENIC			
SNP_117637_A_893	NW_004521482.1	scaffold8836	893	AA	TT	TT	INTERGENIC			
SNP_117638_A_894	NW_004521482.1	scaffold8836	894	TT	AA	AA	INTERGENIC			
SNP_117639_A_901	NW_004521482.1	scaffold8836	901	TT	CC	CC	INTERGENIC			
SNP_117640_A_939	NW_004521482.1	scaffold8836	939	AA	GG	GG	INTERGENIC			
SNP_117642_A_1105	NW_004521482.1	scaffold8836	1105	AA	TT	TT	INTERGENIC			
SNP_117643_A_1129	NW_004521482.1	scaffold8836	1129	GG	AA	AA	INTERGENIC			
SNP_117644_A_1161	NW_004521482.1	scaffold8836	1161	CC	TT	TT	INTERGENIC			
SNP_117645_A_1197	NW_004521482.1	scaffold8836	1197	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117647_A_213	NW_004521485.1	scaffold8842	213	AA	TT	TT	INTERGENIC			
SNP_117648_A_245	NW_004521485.1	scaffold8842	245	AA	GG	GG	INTERGENIC			
SNP_117649_A_428	NW_004521485.1	scaffold8842	428	TT	CC	CC	INTERGENIC			
SNP_117650_A_509	NW_004521485.1	scaffold8842	509	GG	AA	AA	INTERGENIC			
SNP_117651_A_584	NW_004521485.1	scaffold8842	584	AA	CC	CC	INTERGENIC			
SNP_117652_A_602	NW_004521485.1	scaffold8842	602	CC	AA	AA	INTERGENIC			
SNP_117653_A_860	NW_004521485.1	scaffold8842	860	AA	TT	TT	INTERGENIC			
SNP_117654_A_888	NW_004521485.1	scaffold8842	888	TT	CC	CC	INTERGENIC			
SNP_117655_A_1360	NW_004521486.1	scaffold8844	1360	CC	TT	TT	INTERGENIC			
SNP_117656_A_1362	NW_004521486.1	scaffold8844	1362	GG	TT	TT	INTERGENIC			
SNP_117657_A_1363	NW_004521486.1	scaffold8844	1363	GG	AA	AA	INTERGENIC			
SNP_117658_A_1374	NW_004521486.1	scaffold8844	1374	CC	TT	TT	INTERGENIC			
SNP_117659_A_1389	NW_004521486.1	scaffold8844	1389	AA	GG	GG	INTERGENIC			
SNP_117660_A_1397	NW_004521486.1	scaffold8844	1397	TT	CC	CC	INTERGENIC			
SNP_117661_A_1991	NW_004521487.1	scaffold8845	1991	CC	TT	TT	INTERGENIC			
SNP_117662_A_1995	NW_004521487.1	scaffold8845	1995	AA	GG	GG	INTERGENIC			
SNP_117663_A_1996	NW_004521487.1	scaffold8845	1996	GG	CC	CC	INTERGENIC			
SNP_117664_A_2037	NW_004521487.1	scaffold8845	2037	TT	CC	CC	INTERGENIC			
SNP_117665_A_2554	NW_004521487.1	scaffold8845	2554	AA	GG	GG	INTERGENIC			
SNP_117666_A_3202	NW_004521487.1	scaffold8845	3202	AA	GG	GG	INTERGENIC			
SNP_117667_A_3237	NW_004521487.1	scaffold8845	3237	TT	CC	CC	INTERGENIC			
SNP_117668_A_3238	NW_004521487.1	scaffold8845	3238	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117669_A_446	NW_004521488.1	scaffold8847	446	AA	GG	GG	INTERGENIC			
SNP_117670_A_984	NW_004521489.1	scaffold8848	984	CC	TT	TT	INTERGENIC			
SNP_117671_A_1146	NW_004521489.1	scaffold8848	1146	TT	GG	GG	INTERGENIC			
SNP_117672_A_1444	NW_004521489.1	scaffold8848	1444	GG	TT	TT	INTERGENIC			
SNP_117673_A_1593	NW_004521489.1	scaffold8848	1593	AA	TT	TT	INTERGENIC			
SNP_117674_A_1631	NW_004521489.1	scaffold8848	1631	CC	AA	AA	INTERGENIC			
SNP_117675_A_555	NW_004521492.1	scaffold8852	555	GG	AA	AA	INTERGENIC			
SNP_117676_A_799	NW_004521492.1	scaffold8852	799	TT	AA	AA	INTERGENIC			
SNP_117677_A_840	NW_004521492.1	scaffold8852	840	TT	CC	CC	INTERGENIC			
SNP_117678_A_896	NW_004521492.1	scaffold8852	896	AA	GG	GG	INTERGENIC			
SNP_117679_A_922	NW_004521492.1	scaffold8852	922	TT	AA	AA	INTERGENIC			
SNP_117680_A_1044	NW_004521492.1	scaffold8852	1044	GG	AA	AA	INTERGENIC			
SNP_117681_A_1114	NW_004521492.1	scaffold8852	1114	TT	AA	AA	INTERGENIC			
SNP_117682_A_5559	NW_004521497.1	scaffold8857	5559	GG	AA	AA	INTERGENIC			
SNP_117683_A_5617	NW_004521497.1	scaffold8857	5617	GG	AA	AA	INTERGENIC			
SNP_117684_A_5937	NW_004521497.1	scaffold8857	5937	GG	AA	AA	INTERGENIC			
SNP_117686_A_545	NW_004521501.1	scaffold8866	545	TT	CC	CC	INTERGENIC			
SNP_117687_A_2112	NW_004521501.1	scaffold8866	2112	CC	TT	TT	INTERGENIC			
SNP_117688_A_2204	NW_004521501.1	scaffold8866	2204	GG	AA	AA	INTERGENIC			
SNP_117690_A_262	NW_004521502.1	scaffold8867	262	TT	CC	CC	INTERGENIC			
SNP_117691_A_64	NW_004521505.1	scaffold8875	64	AA	TT	TT	INTERGENIC			
SNP_117692_A_139	NW_004521505.1	scaffold8875	139	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117693_A_64	NW_004521506.1	scaffold8876	64	TT	CC	CC	INTERGENIC			
SNP_117694_A_101	NW_004521506.1	scaffold8876	101	AA	GG	GG	INTERGENIC			
SNP_117695_A_187	NW_004521506.1	scaffold8876	187	TT	GG	GG	INTERGENIC			
SNP_117696_A_222	NW_004521506.1	scaffold8876	222	TT	AA	AA	INTERGENIC			
SNP_117697_A_398	NW_004521506.1	scaffold8876	398	CC	AA	AA	INTERGENIC			
SNP_117698_A_486	NW_004521506.1	scaffold8876	486	TT	GG	GG	INTERGENIC			
SNP_117699_A_538	NW_004521506.1	scaffold8876	538	TT	GG	GG	INTERGENIC			
SNP_117700_A_558	NW_004521506.1	scaffold8876	558	AA	TT	TT	INTERGENIC			
SNP_117701_A_644	NW_004521506.1	scaffold8876	644	CC	TT	TT	INTERGENIC			
SNP_117702_A_229	NW_004521507.1	scaffold8877	229	TT	CC	CC	INTERGENIC			
SNP_117703_A_371	NW_004521507.1	scaffold8877	371	TT	CC	CC	INTERGENIC			
SNP_117705_A_501	NW_004521507.1	scaffold8877	501	CC	AA	AA	INTERGENIC			
SNP_117706_A_520	NW_004521507.1	scaffold8877	520	GG	AA	AA	INTERGENIC			
SNP_117707_A_543	NW_004521507.1	scaffold8877	543	AA	GG	GG	INTERGENIC			
SNP_117708_A_733	NW_004521507.1	scaffold8877	733	GG	AA	AA	INTERGENIC			
SNP_117709_A_754	NW_004521507.1	scaffold8877	754	TT	AA	AA	INTERGENIC			
SNP_117710_A_761	NW_004521507.1	scaffold8877	761	GG	AA	AA	INTERGENIC			
SNP_117711_A_767	NW_004521507.1	scaffold8877	767	AA	GG	GG	INTERGENIC			
SNP_117712_A_853	NW_004521507.1	scaffold8877	853	TT	CC	CC	INTERGENIC			
SNP_117713_A_19882	NW_004521507.1	scaffold8877	19882	AA	GG	GG	INTERGENIC			
SNP_117714_A_20349	NW_004521507.1	scaffold8877	20349	TT	GG	GG	INTERGENIC			
SNP_117715_A_20602	NW_004521507.1	scaffold8877	20602	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_117716_A_20603	NW_004521507.1	scaffold8877	20603	AA	TT	TT	INTERGENIC		
SNP_117717_A_20652	NW_004521507.1	scaffold8877	20652	CC	AA	AA	INTERGENIC		
SNP_117718_A_20752	NW_004521507.1	scaffold8877	20752	GG	TT	TT	INTERGENIC		
SNP_117719_A_723	NW_004521514.1	scaffold8892	723	CC	AA	AA	INTERGENIC		
SNP_117720_A_872	NW_004521517.1	scaffold8897	872	TT	CC	CC	INTERGENIC		
SNP_117721_A_1184	NW_004521517.1	scaffold8897	1184	TT	GG	GG	INTERGENIC		
SNP_117722_A_1196	NW_004521517.1	scaffold8897	1196	TT	GG	GG	INTERGENIC		
SNP_117723_A_250	NW_004521521.1	scaffold8907	250	AA	GG	GG	INTERGENIC		
SNP_117724_A_1269	NW_004521522.1	scaffold8913	1269	CC	TT	TT	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117725_A_1273	NW_004521522.1	scaffold8913	1273	CC	GG	GG	SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117726_A_1297	NW_004521522.1	scaffold8913	1297	GG	AA	AA	SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117727_A_1779	NW_004521522.1	scaffold8913	1779	GG	AA	AA	SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117728_A_1880	NW_004521522.1	scaffold8913	1880	TT	CC	CC	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117729_A_1901	NW_004521522.1	scaffold8913	1901	CC	GG	GG	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117730_A_1902	NW_004521522.1	scaffold8913	1902	GG	CC	CC	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117731_A_1909	NW_004521522.1	scaffold8913	1909	GG	CC	CC	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117732_A_1925	NW_004521522.1	scaffold8913	1925	GG	TT	TT	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117733_A_2036	NW_004521522.1	scaffold8913	2036	CC	GG	GG	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117734_A_2079	NW_004521522.1	scaffold8913	2079	CC	AA	AA	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117735_A_2109	NW_004521522.1	scaffold8913	2109	AA	GG	GG	NON_SYNONYMOUS_CODING	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117737_A_2297	NW_004521522.1	scaffold8913	2297	AA	GG	GG	URR	101502870	pentatricopeptide repeat-containing protein At1g62910-like
SNP_117740_A_1675	NW_004521527.1	scaffold8926	1675	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_117741_A_752	NW_004521528.1	scaffold8930	752	GG	TT	TT	INTERGENIC		
SNP_117742_A_796	NW_004521533.1	scaffold8943	796	CC	TT	TT	INTERGENIC		
SNP_117743_A_830	NW_004521533.1	scaffold8943	830	AA	CC	CC	INTERGENIC		
SNP_117744_A_996	NW_004521533.1	scaffold8943	996	CC	AA	AA	INTERGENIC		
SNP_117745_A_268	NW_004521539.1	scaffold8960	268	GG	AA	AA	INTERGENIC		
SNP_117746_A_647	NW_004521539.1	scaffold8960	647	GG	AA	AA	INTERGENIC		
SNP_117747_A_939	NW_004521544.1	scaffold8967	939	GG	TT	TT	INTERGENIC		
SNP_117748_A_984	NW_004521544.1	scaffold8967	984	CC	TT	TT	INTERGENIC		
SNP_117749_A_1010	NW_004521544.1	scaffold8967	1010	CC	AA	AA	INTERGENIC		
SNP_117750_A_732	NW_004521545.1	scaffold8968	732	TT	AA	AA	INTERGENIC		
SNP_117751_A_753	NW_004521545.1	scaffold8968	753	AA	GG	GG	INTERGENIC		
SNP_117752_A_812	NW_004521545.1	scaffold8968	812	GG	AA	AA	INTERGENIC		
SNP_117754_A_1414	NW_004521552.1	scaffold8987	1414	TT	CC	CC	INTERGENIC		
SNP_117755_A_1632	NW_004521552.1	scaffold8987	1632	TT	CC	CC	INTERGENIC		
SNP_117756_A_475	NW_004521554.1	scaffold8990	475	TT	CC	CC	DRR	101503853	uncharacterized LOC101503853
SNP_117757_A_479	NW_004521554.1	scaffold8990	479	AA	TT	TT	DRR	101503853	uncharacterized LOC101503853
SNP_117758_A_518	NW_004521554.1	scaffold8990	518	AA	TT	TT	DRR	101503853	uncharacterized LOC101503853
SNP_117759_A_661	NW_004521554.1	scaffold8990	661	GG	AA	AA	DRR	101503853	uncharacterized LOC101503853
SNP_117760_A_846	NW_004521554.1	scaffold8990	846	GG	AA	AA	DRR	101503853	uncharacterized LOC101503853
SNP_117761_A_998	NW_004521554.1	scaffold8990	998	GG	CC	CC	DRR	101503853	uncharacterized LOC101503853
SNP_117762_A_1132	NW_004521554.1	scaffold8990	1132	GG	TT	TT	DRR	101503853	uncharacterized LOC101503853
SNP_117763_A_1971	NW_004521554.1	scaffold8990	1971	GG	AA	AA	INTRON	101503853	uncharacterized LOC101503853

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117764_A_852	NW_004521558.1	scaffold8999	852	AA	TT	TT	INTERGENIC			
SNP_117765_A_856	NW_004521558.1	scaffold8999	856	AA	TT	TT	INTERGENIC			
SNP_117766_A_1360	NW_004521558.1	scaffold8999	1360	CC	TT	TT	INTERGENIC			
SNP_117767_A_1366	NW_004521558.1	scaffold8999	1366	CC	GG	GG	INTERGENIC			
SNP_117768_A_1422	NW_004521558.1	scaffold8999	1422	AA	CC	CC	INTERGENIC			
SNP_117769_A_3003	NW_004521559.1	scaffold9000	3003	AA	GG	GG	INTERGENIC			
SNP_117770_A_3290	NW_004521559.1	scaffold9000	3290	AA	CC	CC	INTERGENIC			
SNP_117771_A_514	NW_004521560.1	scaffold9003	514	CC	AA	AA	INTERGENIC			
SNP_117772_A_803	NW_004521560.1	scaffold9003	803	GG	AA	AA	INTERGENIC			
SNP_117773_A_1232	NW_004521562.1	scaffold9006	1232	GG	AA	AA	INTERGENIC			
SNP_117774_A_1475	NW_004521562.1	scaffold9006	1475	TT	GG	GG	INTERGENIC			
SNP_117775_A_997	NW_004521566.1	scaffold9020	997	CC	AA	AA	INTERGENIC			
SNP_117776_A_1004	NW_004521566.1	scaffold9020	1004	TT	AA	AA	INTERGENIC			
SNP_117777_A_1465	NW_004521566.1	scaffold9020	1465	TT	CC	CC	INTERGENIC			
SNP_117778_A_229	NW_004521568.1	scaffold9023	229	TT	GG	GG	INTERGENIC			
SNP_117779_A_252	NW_004521568.1	scaffold9023	252	CC	TT	TT	INTERGENIC			
SNP_117780_A_323	NW_004521568.1	scaffold9023	323	GG	TT	TT	INTERGENIC			
SNP_117781_A_379	NW_004521568.1	scaffold9023	379	CC	AA	AA	INTERGENIC			
SNP_117782_A_384	NW_004521568.1	scaffold9023	384	AA	TT	TT	INTERGENIC			
SNP_117783_A_515	NW_004521568.1	scaffold9023	515	GG	AA	AA	INTERGENIC			
SNP_117784_A_537	NW_004521568.1	scaffold9023	537	TT	CC	CC	INTERGENIC			
SNP_117785_A_675	NW_004521568.1	scaffold9023	675	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117786_A_734	NW_004521568.1	scaffold9023	734	AA	CC	CC	INTERGENIC			
SNP_117787_A_767	NW_004521568.1	scaffold9023	767	TT	AA	AA	INTERGENIC			
SNP_117788_A_864	NW_004521568.1	scaffold9023	864	AA	GG	GG	INTERGENIC			
SNP_117789_A_909	NW_004521568.1	scaffold9023	909	AA	GG	GG	INTERGENIC			
SNP_117790_A_972	NW_004521568.1	scaffold9023	972	GG	AA	AA	INTERGENIC			
SNP_117791_A_1006	NW_004521568.1	scaffold9023	1006	AA	GG	GG	INTERGENIC			
SNP_117792_A_1506	NW_004521569.1	scaffold9024	1506	CC	AA	AA	INTERGENIC			
SNP_117793_A_99	NW_004521572.1	scaffold9028	99	AA	GG	GG	INTERGENIC			
SNP_117794_A_274	NW_004521572.1	scaffold9028	274	CC	AA	AA	INTERGENIC			
SNP_117795_A_423	NW_004521572.1	scaffold9028	423	AA	CC	CC	INTERGENIC			
SNP_117796_A_440	NW_004521572.1	scaffold9028	440	AA	GG	GG	INTERGENIC			
SNP_117797_A_556	NW_004521572.1	scaffold9028	556	CC	GG	GG	INTERGENIC			
SNP_117798_A_569	NW_004521572.1	scaffold9028	569	AA	GG	GG	INTERGENIC			
SNP_117799_A_581	NW_004521572.1	scaffold9028	581	CC	GG	GG	INTERGENIC			
SNP_117800_A_615	NW_004521572.1	scaffold9028	615	CC	AA	AA	INTERGENIC			
SNP_117801_A_664	NW_004521572.1	scaffold9028	664	TT	GG	GG	INTERGENIC			
SNP_117802_A_715	NW_004521572.1	scaffold9028	715	GG	CC	CC	INTERGENIC			
SNP_117803_A_880	NW_004521572.1	scaffold9028	880	TT	AA	AA	INTERGENIC			
SNP_117804_A_884	NW_004521572.1	scaffold9028	884	AA	CC	CC	INTERGENIC			
SNP_117805_A_916	NW_004521572.1	scaffold9028	916	GG	TT	TT	INTERGENIC			
SNP_117806_A_931	NW_004521572.1	scaffold9028	931	GG	TT	TT	INTERGENIC			
SNP_117807_A_190	NW_004521575.1	scaffold9037	190	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117808_A_528	NW_004521575.1	scaffold9037	528	GG	TT	TT	INTERGENIC			
SNP_117810_A_3343	NW_004521578.1	scaffold9048	3343	AA	GG	GG	INTERGENIC			
SNP_117811_A_3398	NW_004521578.1	scaffold9048	3398	CC	AA	AA	INTERGENIC			
SNP_117812_A_3427	NW_004521578.1	scaffold9048	3427	AA	GG	GG	INTERGENIC			
SNP_117813_A_3436	NW_004521578.1	scaffold9048	3436	AA	GG	GG	INTERGENIC			
SNP_117814_A_446	NW_004521581.1	scaffold9059	446	AA	TT	TT	INTERGENIC			
SNP_117817_A_694	NW_004521581.1	scaffold9059	694	AA	CC	CC	INTERGENIC			
SNP_117818_A_808	NW_004521581.1	scaffold9059	808	AA	GG	GG	INTERGENIC			
SNP_117819_A_942	NW_004521581.1	scaffold9059	942	AA	GG	GG	INTERGENIC			
SNP_117820_A_1076	NW_004521581.1	scaffold9059	1076	TT	GG	GG	INTERGENIC			
SNP_117821_A_1083	NW_004521581.1	scaffold9059	1083	TT	CC	CC	INTERGENIC			
SNP_117822_A_1092	NW_004521581.1	scaffold9059	1092	CC	GG	GG	INTERGENIC			
SNP_117823_A_1133	NW_004521581.1	scaffold9059	1133	CC	TT	TT	INTERGENIC			
SNP_117824_A_1263	NW_004521581.1	scaffold9059	1263	TT	AA	AA	INTERGENIC			
SNP_117825_A_1264	NW_004521581.1	scaffold9059	1264	AA	TT	TT	INTERGENIC			
SNP_117826_A_1265	NW_004521581.1	scaffold9059	1265	GG	AA	AA	INTERGENIC			
SNP_117827_A_1333	NW_004521581.1	scaffold9059	1333	CC	AA	AA	INTERGENIC			
SNP_117828_A_1534	NW_004521581.1	scaffold9059	1534	CC	AA	AA	INTERGENIC			
SNP_117829_A_97	NW_004521584.1	scaffold9070	97	AA	GG	GG	INTERGENIC			
SNP_117830_A_902	NW_004521584.1	scaffold9070	902	CC	TT	TT	INTERGENIC			
SNP_117831_A_591	NW_004521585.1	scaffold9074	591	CC	TT	TT	INTERGENIC			
SNP_117833_A_1047	NW_004521585.1	scaffold9074	1047	CC	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117835_A_1180	NW_004521585.1	scaffold9074	1180	TT	AA	AA	INTERGENIC			
SNP_117836_A_1193	NW_004521585.1	scaffold9074	1193	TT	CC	CC	INTERGENIC			
SNP_117837_A_1255	NW_004521585.1	scaffold9074	1255	GG	TT	TT	INTERGENIC			
SNP_117838_A_596	NW_004521588.1	scaffold9079	596	GG	TT	TT	INTERGENIC			
SNP_117839_A_5435	NW_004521593.1	scaffold9086	5435	TT	GG	GG	INTERGENIC			
SNP_117840_A_5633	NW_004521593.1	scaffold9086	5633	GG	AA	AA	INTERGENIC			
SNP_117841_A_419	NW_004521594.1	scaffold9092	419	GG	AA	AA	INTERGENIC			
SNP_117842_A_1497	NW_004521595.1	scaffold9095	1497	AA	TT	TT	INTERGENIC			
SNP_117843_A_660	NW_004521603.1	scaffold9118	660	AA	TT	TT	INTERGENIC			
SNP_117844_A_666	NW_004521603.1	scaffold9118	666	CC	TT	TT	INTERGENIC			
SNP_117845_A_210	NW_004521604.1	scaffold9122	210	TT	AA	AA	INTERGENIC			
SNP_117846_A_1134	NW_004521604.1	scaffold9122	1134	GG	AA	AA	INTERGENIC			
SNP_117847_A_1309	NW_004521604.1	scaffold9122	1309	TT	CC	CC	INTERGENIC			
SNP_117848_A_1439	NW_004521604.1	scaffold9122	1439	TT	CC	CC	INTERGENIC			
SNP_117849_A_1566	NW_004521604.1	scaffold9122	1566	GG	AA	AA	INTERGENIC			
SNP_117850_A_1974	NW_004521604.1	scaffold9122	1974	GG	AA	AA	INTERGENIC			
SNP_117851_A_2014	NW_004521604.1	scaffold9122	2014	CC	AA	AA	INTERGENIC			
SNP_117852_A_2162	NW_004521604.1	scaffold9122	2162	AA	GG	GG	INTERGENIC			
SNP_117853_A_6017	NW_004521604.1	scaffold9122	6017	GG	AA	AA	INTERGENIC			
SNP_117854_A_337	NW_004521605.1	scaffold9125	337	TT	CC	CC	INTERGENIC			
SNP_117855_A_382	NW_004521605.1	scaffold9125	382	AA	GG	GG	INTERGENIC			
SNP_117856_A_488	NW_004521605.1	scaffold9125	488	AA	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117857_A_654	NW_004521605.1	scaffold9125	654	CC	TT	TT	INTERGENIC			
SNP_117858_A_1049	NW_004521609.1	scaffold9135	1049	TT	AA	AA	INTERGENIC			
SNP_117859_A_908	NW_004521612.1	scaffold9149	908	AA	GG	GG	INTERGENIC			
SNP_117860_A_963	NW_004521612.1	scaffold9149	963	GG	CC	CC	INTERGENIC			
SNP_117861_A_986	NW_004521612.1	scaffold9149	986	AA	GG	GG	INTERGENIC			
SNP_117862_A_1015	NW_004521612.1	scaffold9149	1015	AA	TT	TT	INTERGENIC			
SNP_117863_A_1155	NW_004521612.1	scaffold9149	1155	AA	GG	GG	INTERGENIC			
SNP_117864_A_1235	NW_004521612.1	scaffold9149	1235	AA	GG	GG	INTERGENIC			
SNP_117865_A_467	NW_004521619.1	scaffold9168	467	TT	CC	CC	INTERGENIC			
SNP_117866_A_1365	NW_004521620.1	scaffold9171	1365	AA	GG	GG	INTERGENIC			
SNP_117867_A_382	NW_004521621.1	scaffold9172	382	TT	GG	GG	INTERGENIC			
SNP_117868_A_2108	NW_004521625.1	scaffold9185	2108	CC	TT	TT	INTERGENIC			
SNP_117869_A_2157	NW_004521625.1	scaffold9185	2157	TT	AA	AA	INTERGENIC			
SNP_117870_A_64	NW_004521630.1	scaffold9195	64	CC	TT	TT	INTERGENIC			
SNP_117871_A_145	NW_004521630.1	scaffold9195	145	CC	GG	GG	INTERGENIC			
SNP_117872_A_241	NW_004521630.1	scaffold9195	241	CC	AA	AA	INTERGENIC			
SNP_117874_A_674	NW_004521630.1	scaffold9195	674	GG	AA	AA	INTERGENIC			
SNP_117875_A_710	NW_004521630.1	scaffold9195	710	TT	AA	AA	INTERGENIC			
SNP_117876_A_859	NW_004521630.1	scaffold9195	859	GG	AA	AA	INTERGENIC			
SNP_117877_A_883	NW_004521630.1	scaffold9195	883	TT	CC	CC	INTERGENIC			
SNP_117879_A_355	NW_004521635.1	scaffold9216	355	AA	CC	CC	INTERGENIC			
SNP_117880_A_363	NW_004521635.1	scaffold9216	363	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117881_A_370	NW_004521635.1	scaffold9216	370	AA	CC	CC	INTERGENIC			
SNP_117882_A_377	NW_004521635.1	scaffold9216	377	CC	GG	GG	INTERGENIC			
SNP_117883_A_379	NW_004521635.1	scaffold9216	379	TT	AA	AA	INTERGENIC			
SNP_117884_A_400	NW_004521635.1	scaffold9216	400	AA	TT	TT	INTERGENIC			
SNP_117885_A_535	NW_004521635.1	scaffold9216	535	TT	CC	CC	INTERGENIC			
SNP_117886_A_576	NW_004521635.1	scaffold9216	576	CC	TT	TT	INTERGENIC			
SNP_117887_A_583	NW_004521635.1	scaffold9216	583	CC	GG	GG	INTERGENIC			
SNP_117888_A_585	NW_004521635.1	scaffold9216	585	AA	TT	TT	INTERGENIC			
SNP_117889_A_983	NW_004521635.1	scaffold9216	983	TT	GG	GG	INTERGENIC			
SNP_117890_A_1155	NW_004521635.1	scaffold9216	1155	GG	TT	TT	INTERGENIC			
SNP_117891_A_1206	NW_004521635.1	scaffold9216	1206	AA	CC	CC	INTERGENIC			
SNP_117892_A_625	NW_004521644.1	scaffold9236	625	TT	AA	AA	INTERGENIC			
SNP_117893_A_1073	NW_004521644.1	scaffold9236	1073	AA	CC	CC	INTERGENIC			
SNP_117894_A_1681	NW_004521644.1	scaffold9236	1681	TT	CC	CC	INTERGENIC			
SNP_117895_A_1771	NW_004521644.1	scaffold9236	1771	CC	TT	TT	INTERGENIC			
SNP_117896_A_1774	NW_004521644.1	scaffold9236	1774	GG	TT	TT	INTERGENIC			
SNP_117897_A_1810	NW_004521644.1	scaffold9236	1810	GG	CC	CC	INTERGENIC			
SNP_117898_A_1812	NW_004521644.1	scaffold9236	1812	GG	CC	CC	INTERGENIC			
SNP_117899_A_107	NW_004521645.1	scaffold9240	107	TT	CC	CC	INTERGENIC			
SNP_117900_A_396	NW_004521645.1	scaffold9240	396	TT	CC	CC	INTERGENIC			
SNP_117901_A_464	NW_004521645.1	scaffold9240	464	GG	CC	CC	INTERGENIC			
SNP_117903_A_777	NW_004521645.1	scaffold9240	777	GG	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117904_A_1101	NW_004521645.1	scaffold9240	1101	CC	GG	GG	INTERGENIC			
SNP_117905_A_1137	NW_004521645.1	scaffold9240	1137	TT	CC	CC	INTERGENIC			
SNP_117906_A_64	NW_004521649.1	scaffold9247	64	GG	AA	AA	INTERGENIC			
SNP_117907_A_99	NW_004521649.1	scaffold9247	99	AA	GG	GG	INTERGENIC			
SNP_117908_A_100	NW_004521649.1	scaffold9247	100	TT	AA	AA	INTERGENIC			
SNP_117909_A_399	NW_004521649.1	scaffold9247	399	AA	TT	TT	INTERGENIC			
SNP_117911_A_600	NW_004521649.1	scaffold9247	600	TT	CC	CC	INTERGENIC			
SNP_117912_A_976	NW_004521655.1	scaffold9258	976	AA	GG	GG	INTERGENIC			
SNP_117913_A_1152	NW_004521655.1	scaffold9258	1152	CC	AA	AA	INTERGENIC			
SNP_117914_A_1189	NW_004521655.1	scaffold9258	1189	AA	TT	TT	INTERGENIC			
SNP_117915_A_1220	NW_004521655.1	scaffold9258	1220	TT	CC	CC	INTERGENIC			
SNP_117916_A_1311	NW_004521655.1	scaffold9258	1311	CC	TT	TT	INTERGENIC			
SNP_117917_A_20044	NW_004521659.1	scaffold9267	20044	TT	CC	CC	INTERGENIC			
SNP_117918_A_20045	NW_004521659.1	scaffold9267	20045	TT	AA	AA	INTERGENIC			
SNP_117919_A_20447	NW_004521659.1	scaffold9267	20447	TT	CC	CC	INTERGENIC			
SNP_117920_A_20455	NW_004521659.1	scaffold9267	20455	AA	GG	GG	INTERGENIC			
SNP_117921_A_20508	NW_004521659.1	scaffold9267	20508	AA	CC	CC	INTERGENIC			
SNP_117922_A_756	NW_004521662.1	scaffold9273	756	AA	GG	GG	INTERGENIC			
SNP_117923_A_64	NW_004521666.1	scaffold9281	64	GG	TT	TT	INTERGENIC			
SNP_117924_A_101	NW_004521666.1	scaffold9281	101	AA	CC	CC	INTERGENIC			
SNP_117925_A_252	NW_004521666.1	scaffold9281	252	AA	GG	GG	INTERGENIC			
SNP_117926_A_303	NW_004521666.1	scaffold9281	303	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117927_A_349	NW_004521666.1	scaffold9281	349	TT	CC	CC	INTERGENIC			
SNP_117928_A_359	NW_004521666.1	scaffold9281	359	AA	GG	GG	INTERGENIC			
SNP_117929_A_374	NW_004521666.1	scaffold9281	374	TT	CC	CC	INTERGENIC			
SNP_117930_A_378	NW_004521666.1	scaffold9281	378	CC	TT	TT	INTERGENIC			
SNP_117931_A_385	NW_004521666.1	scaffold9281	385	CC	TT	TT	INTERGENIC			
SNP_117932_A_390	NW_004521666.1	scaffold9281	390	CC	TT	TT	INTERGENIC			
SNP_117933_A_394	NW_004521666.1	scaffold9281	394	GG	AA	AA	INTERGENIC			
SNP_117934_A_412	NW_004521666.1	scaffold9281	412	TT	AA	AA	INTERGENIC			
SNP_117935_A_493	NW_004521666.1	scaffold9281	493	GG	AA	AA	INTERGENIC			
SNP_117936_A_555	NW_004521666.1	scaffold9281	555	TT	AA	AA	INTERGENIC			
SNP_117937_A_588	NW_004521666.1	scaffold9281	588	AA	GG	GG	INTERGENIC			
SNP_117938_A_685	NW_004521666.1	scaffold9281	685	CC	AA	AA	INTERGENIC			
SNP_117939_A_772	NW_004521666.1	scaffold9281	772	AA	GG	GG	INTERGENIC			
SNP_117940_A_3606	NW_004521666.1	scaffold9281	3606	TT	CC	CC	INTERGENIC			
SNP_117941_A_3649	NW_004521666.1	scaffold9281	3649	CC	AA	AA	INTERGENIC			
SNP_117942_A_3775	NW_004521666.1	scaffold9281	3775	GG	CC	CC	INTERGENIC			
SNP_117943_A_4136	NW_004521666.1	scaffold9281	4136	TT	CC	CC	INTERGENIC			
SNP_117944_A_4145	NW_004521666.1	scaffold9281	4145	TT	AA	AA	INTERGENIC			
SNP_117946_A_1447	NW_004521671.1	scaffold9294	1447	AA	GG	GG	INTERGENIC			
SNP_117947_A_1494	NW_004521671.1	scaffold9294	1494	AA	CC	CC	INTERGENIC			
SNP_117948_A_64	NW_004521672.1	scaffold9295	64	GG	TT	TT	INTERGENIC			
SNP_117949_A_59	NW_004521673.1	scaffold9303	59	GG	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier genome (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117950_A_64	NW_004521673.1	scaffold9303	64	AA	CC	CC	INTERGENIC			
SNP_117951_A_82	NW_004521673.1	scaffold9303	82	CC	TT	TT	INTERGENIC			
SNP_117952_A_125	NW_004521673.1	scaffold9303	125	AA	GG	GG	INTERGENIC			
SNP_117953_A_137	NW_004521673.1	scaffold9303	137	TT	CC	CC	INTERGENIC			
SNP_117954_A_142	NW_004521673.1	scaffold9303	142	TT	CC	CC	INTERGENIC			
SNP_117955_A_1008	NW_004521673.1	scaffold9303	1008	TT	CC	CC	INTERGENIC			
SNP_117956_A_1077	NW_004521673.1	scaffold9303	1077	CC	TT	TT	INTERGENIC			
SNP_117958_A_1323	NW_004521673.1	scaffold9303	1323	TT	GG	GG	INTERGENIC			
SNP_117961_A_915	NW_004521678.1	scaffold9314	915	CC	GG	GG	INTERGENIC			
SNP_117962_A_979	NW_004521678.1	scaffold9314	979	AA	TT	TT	INTERGENIC			
SNP_117963_A_1009	NW_004521678.1	scaffold9314	1009	CC	GG	GG	INTERGENIC			
SNP_117964_A_4588	NW_004521682.1	scaffold9323	4588	TT	CC	CC	INTERGENIC			
SNP_117965_A_5829	NW_004521682.1	scaffold9323	5829	AA	GG	GG	INTERGENIC			
SNP_117966_A_186	NW_004521685.1	scaffold9326	186	GG	AA	AA	INTERGENIC			
SNP_117967_A_199	NW_004521685.1	scaffold9326	199	CC	GG	GG	INTERGENIC			
SNP_117968_A_253	NW_004521685.1	scaffold9326	253	TT	AA	AA	INTERGENIC			
SNP_117969_A_531	NW_004521685.1	scaffold9326	531	AA	CC	CC	INTERGENIC			
SNP_117970_A_601	NW_004521685.1	scaffold9326	601	AA	TT	TT	INTERGENIC			
SNP_117971_A_646	NW_004521685.1	scaffold9326	646	CC	GG	GG	INTERGENIC			
SNP_117972_A_689	NW_004521685.1	scaffold9326	689	TT	AA	AA	INTERGENIC			
SNP_117973_A_753	NW_004521685.1	scaffold9326	753	AA	TT	TT	INTERGENIC			
SNP_117974_A_1082	NW_004521687.1	scaffold9334	1082	TT	AA	AA	INTRON	id225268	Unknown function	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_117975_A_1779	NW_004521687.1	scaffold9334	1779	AA	TT	TT	URR	101505118	uncharacterized LOC101505118
SNP_117976_A_2049	NW_004521687.1	scaffold9334	2049	AA	TT	TT	URR	101505118	uncharacterized LOC101505118
SNP_117977_A_2087	NW_004521687.1	scaffold9334	2087	TT	AA	AA	URR	101505118	uncharacterized LOC101505118
SNP_117978_A_467	NW_004521690.1	scaffold9346	467	CC	AA	AA	INTERGENIC		
SNP_117979_A_64	NW_004521702.1	scaffold9371	64	CC	GG	GG	INTERGENIC		
SNP_117980_A_133	NW_004521702.1	scaffold9371	133	GG	TT	TT	INTERGENIC		
SNP_117981_A_171	NW_004521702.1	scaffold9371	171	GG	AA	AA	INTERGENIC		
SNP_117983_A_296	NW_004521702.1	scaffold9371	296	GG	CC	CC	INTERGENIC		
SNP_117984_A_305	NW_004521702.1	scaffold9371	305	AA	TT	TT	INTERGENIC		
SNP_117985_A_309	NW_004521702.1	scaffold9371	309	CC	AA	AA	INTERGENIC		
SNP_117986_A_331	NW_004521702.1	scaffold9371	331	TT	CC	CC	INTERGENIC		
SNP_117987_A_396	NW_004521702.1	scaffold9371	396	TT	CC	CC	INTERGENIC		
SNP_117988_A_426	NW_004521702.1	scaffold9371	426	AA	CC	CC	INTERGENIC		
SNP_117989_A_470	NW_004521702.1	scaffold9371	470	GG	AA	AA	INTERGENIC		
SNP_117990_A_482	NW_004521702.1	scaffold9371	482	AA	TT	TT	INTERGENIC		
SNP_117991_A_486	NW_004521702.1	scaffold9371	486	AA	TT	TT	INTERGENIC		
SNP_117992_A_504	NW_004521702.1	scaffold9371	504	GG	AA	AA	INTERGENIC		
SNP_117993_A_554	NW_004521702.1	scaffold9371	554	AA	CC	CC	INTERGENIC		
SNP_117994_A_619	NW_004521702.1	scaffold9371	619	TT	AA	AA	INTERGENIC		
SNP_117996_A_649	NW_004521702.1	scaffold9371	649	AA	GG	GG	INTERGENIC		
SNP_117997_A_678	NW_004521702.1	scaffold9371	678	GG	CC	CC	INTERGENIC		
SNP_117998_A_836	NW_004521705.1	scaffold9375	836	TT	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_117999_A_965	NW_004521707.1	scaffold9378	965	GG	TT	TT	INTERGENIC			
SNP_118000_A_732	NW_004521712.1	scaffold9391	732	TT	GG	GG	INTERGENIC			
SNP_118001_A_477	NW_004521716.1	scaffold9396	477	TT	CC	CC	INTERGENIC			
SNP_118002_A_501	NW_004521716.1	scaffold9396	501	GG	AA	AA	INTERGENIC			
SNP_118003_A_611	NW_004521716.1	scaffold9396	611	GG	AA	AA	INTERGENIC			
SNP_118004_A_633	NW_004521716.1	scaffold9396	633	CC	GG	GG	INTERGENIC			
SNP_118005_A_655	NW_004521716.1	scaffold9396	655	AA	GG	GG	INTERGENIC			
SNP_118006_A_672	NW_004521716.1	scaffold9396	672	AA	GG	GG	INTERGENIC			
SNP_118007_A_725	NW_004521716.1	scaffold9396	725	TT	CC	CC	INTERGENIC			
SNP_118008_A_928	NW_004521716.1	scaffold9396	928	CC	TT	TT	INTERGENIC			
SNP_118009_A_958	NW_004521716.1	scaffold9396	958	TT	AA	AA	INTERGENIC			
SNP_118010_A_985	NW_004521716.1	scaffold9396	985	TT	CC	CC	INTERGENIC			
SNP_118011_A_1296	NW_004521716.1	scaffold9396	1296	GG	CC	CC	INTERGENIC			
SNP_118012_A_1077	NW_004521721.1	scaffold9411	1077	GG	AA	AA	INTERGENIC			
SNP_118013_A_2756	NW_004521721.1	scaffold9411	2756	TT	CC	CC	INTERGENIC			
SNP_118016_A_3749	NW_004521721.1	scaffold9411	3749	TT	AA	AA	DRR	101506305	vacuolar-processing enzyme-like	
SNP_118017_A_3782	NW_004521721.1	scaffold9411	3782	TT	GG	GG	DRR	101506305	vacuolar-processing enzyme-like	
SNP_118018_A_3789	NW_004521721.1	scaffold9411	3789	AA	TT	TT	DRR	101506305	vacuolar-processing enzyme-like	
SNP_118019_A_5127	NW_004521721.1	scaffold9411	5127	GG	AA	AA	NON_SYNONYMOUS_CODING	101506305	vacuolar-processing enzyme-like	
SNP_118020_A_5342	NW_004521721.1	scaffold9411	5342	TT	CC	CC	INTRON	101506305	vacuolar-processing enzyme-like	
SNP_118021_A_5772	NW_004521721.1	scaffold9411	5772	GG	CC	CC	NON_SYNONYMOUS_CODING	101506305	vacuolar-processing enzyme-like	
SNP_118022_A_405	NW_004521722.1	scaffold9416	405	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118023_A_761	NW_004521722.1	scaffold9416	761	AA	CC	CC	INTERGENIC			
SNP_118024_A_795	NW_004521724.1	scaffold9419	795	AA	CC	CC	INTERGENIC			
SNP_118025_A_807	NW_004521724.1	scaffold9419	807	CC	TT	TT	INTERGENIC			
SNP_118026_A_64	NW_004521734.1	scaffold9444	64	AA	GG	GG	INTERGENIC			
SNP_118027_A_177	NW_004521734.1	scaffold9444	177	TT	AA	AA	INTERGENIC			
SNP_118028_A_388	NW_004521734.1	scaffold9444	388	TT	CC	CC	INTERGENIC			
SNP_118029_A_396	NW_004521734.1	scaffold9444	396	AA	CC	CC	INTERGENIC			
SNP_118030_A_670	NW_004521734.1	scaffold9444	670	CC	TT	TT	INTERGENIC			
SNP_118031_A_694	NW_004521734.1	scaffold9444	694	GG	AA	AA	INTERGENIC			
SNP_118032_A_2095	NW_004521734.1	scaffold9444	2095	AA	CC	CC	INTERGENIC			
SNP_118034_A_2337	NW_004521734.1	scaffold9444	2337	GG	TT	TT	INTERGENIC			
SNP_118035_A_2393	NW_004521734.1	scaffold9444	2393	TT	CC	CC	INTERGENIC			
SNP_118036_A_2769	NW_004521734.1	scaffold9444	2769	AA	TT	TT	INTERGENIC			
SNP_118037_A_3349	NW_004521734.1	scaffold9444	3349	CC	TT	TT	INTERGENIC			
SNP_118038_A_3743	NW_004521734.1	scaffold9444	3743	CC	GG	GG	INTERGENIC			
SNP_118039_A_3852	NW_004521734.1	scaffold9444	3852	TT	AA	AA	INTERGENIC			
SNP_118040_A_3956	NW_004521734.1	scaffold9444	3956	TT	AA	AA	INTERGENIC			
SNP_118041_A_4026	NW_004521734.1	scaffold9444	4026	AA	GG	GG	INTERGENIC			
SNP_118042_A_4100	NW_004521734.1	scaffold9444	4100	AA	CC	CC	INTERGENIC			
SNP_118043_A_4172	NW_004521734.1	scaffold9444	4172	GG	AA	AA	INTERGENIC			
SNP_118044_A_4397	NW_004521734.1	scaffold9444	4397	CC	GG	GG	INTERGENIC			
SNP_118045_A_4461	NW_004521734.1	scaffold9444	4461	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118046_A_4530	NW_004521734.1	scaffold9444	4530	CC	TT	TT	INTERGENIC			
SNP_118047_A_4546	NW_004521734.1	scaffold9444	4546	GG	AA	AA	INTERGENIC			
SNP_118048_A_4619	NW_004521734.1	scaffold9444	4619	AA	TT	TT	INTERGENIC			
SNP_118049_A_4642	NW_004521734.1	scaffold9444	4642	CC	TT	TT	INTERGENIC			
SNP_118050_A_4976	NW_004521734.1	scaffold9444	4976	TT	GG	GG	INTERGENIC			
SNP_118051_A_472	NW_004521737.1	scaffold9454	472	CC	TT	TT	INTERGENIC			
SNP_118052_A_476	NW_004521737.1	scaffold9454	476	AA	GG	GG	INTERGENIC			
SNP_118053_A_705	NW_004521737.1	scaffold9454	705	GG	AA	AA	INTERGENIC			
SNP_118054_A_722	NW_004521737.1	scaffold9454	722	AA	TT	TT	INTERGENIC			
SNP_118055_A_773	NW_004521737.1	scaffold9454	773	GG	AA	AA	INTERGENIC			
SNP_118056_A_861	NW_004521737.1	scaffold9454	861	AA	GG	GG	INTERGENIC			
SNP_118057_A_870	NW_004521737.1	scaffold9454	870	GG	TT	TT	INTERGENIC			
SNP_118058_A_1323	NW_004521747.1	scaffold9484	1323	TT	CC	CC	INTERGENIC			
SNP_118059_A_1347	NW_004521747.1	scaffold9484	1347	TT	GG	GG	INTERGENIC			
SNP_118060_A_1403	NW_004521747.1	scaffold9484	1403	AA	GG	GG	INTERGENIC			
SNP_118061_A_1583	NW_004521747.1	scaffold9484	1583	AA	GG	GG	INTERGENIC			
SNP_118062_A_1668	NW_004521747.1	scaffold9484	1668	TT	CC	CC	INTERGENIC			
SNP_118063_A_1879	NW_004521748.1	scaffold9486	1879	AA	GG	GG	INTERGENIC			
SNP_118064_A_2058	NW_004521748.1	scaffold9486	2058	TT	AA	AA	INTERGENIC			
SNP_118065_A_2120	NW_004521748.1	scaffold9486	2120	AA	GG	GG	INTERGENIC			
SNP_118066_A_124	NW_004521751.1	scaffold9493	124	AA	CC	CC	INTERGENIC			
SNP_118067_A_413	NW_004521751.1	scaffold9493	413	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118068_A_487	NW_004521751.1	scaffold9493	487	TT	CC	CC	INTERGENIC			
SNP_118069_A_535	NW_004521751.1	scaffold9493	535	CC	TT	TT	INTERGENIC			
SNP_118070_A_584	NW_004521751.1	scaffold9493	584	AA	GG	GG	INTERGENIC			
SNP_118071_A_591	NW_004521751.1	scaffold9493	591	GG	AA	AA	INTERGENIC			
SNP_118072_A_1480	NW_004521754.1	scaffold9506	1480	GG	AA	AA	INTERGENIC			
SNP_118073_A_1481	NW_004521754.1	scaffold9506	1481	GG	TT	TT	INTERGENIC			
SNP_118074_A_493	NW_004521755.1	scaffold9507	493	AA	TT	TT	INTERGENIC			
SNP_118075_A_173	NW_004521757.1	scaffold9523	173	TT	GG	GG	INTERGENIC			
SNP_118076_A_516	NW_004521757.1	scaffold9523	516	AA	TT	TT	INTERGENIC			
SNP_118077_A_214	NW_004521766.1	scaffold9550	214	GG	AA	AA	INTERGENIC			
SNP_118078_A_228	NW_004521766.1	scaffold9550	228	CC	TT	TT	INTERGENIC			
SNP_118079_A_249	NW_004521766.1	scaffold9550	249	TT	AA	AA	INTERGENIC			
SNP_118080_A_4725	NW_004521766.1	scaffold9550	4725	CC	TT	TT	INTERGENIC			
SNP_118081_A_4731	NW_004521766.1	scaffold9550	4731	CC	TT	TT	INTERGENIC			
SNP_118082_A_4930	NW_004521766.1	scaffold9550	4930	GG	AA	AA	INTERGENIC			
SNP_118083_A_127	NW_004521768.1	scaffold9555	127	GG	TT	TT	INTERGENIC			
SNP_118084_A_496	NW_004521768.1	scaffold9555	496	AA	CC	CC	INTERGENIC			
SNP_118085_A_549	NW_004521768.1	scaffold9555	549	AA	TT	TT	INTERGENIC			
SNP_118086_A_1914	NW_004521769.1	scaffold9556	1914	CC	GG	GG	INTERGENIC			
SNP_118087_A_1935	NW_004521769.1	scaffold9556	1935	GG	TT	TT	INTERGENIC			
SNP_118088_A_409	NW_004521773.1	scaffold9576	409	AA	TT	TT	INTERGENIC			
SNP_118089_A_913	NW_004521777.1	scaffold9587	913	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118090_A_922	NW_004521777.1	scaffold9587	922	GG	AA	AA	INTERGENIC			
SNP_118091_A_1007	NW_004521777.1	scaffold9587	1007	AA	GG	GG	INTERGENIC			
SNP_118093_A_1156	NW_004521777.1	scaffold9587	1156	TT	GG	GG	INTERGENIC			
SNP_118094_A_1186	NW_004521777.1	scaffold9587	1186	TT	AA	AA	INTERGENIC			
SNP_118095_A_1540	NW_004521777.1	scaffold9587	1540	GG	TT	TT	INTERGENIC			
SNP_118096_A_1547	NW_004521777.1	scaffold9587	1547	AA	GG	GG	INTERGENIC			
SNP_118097_A_441	NW_004521778.1	scaffold9588	441	AA	CC	CC	INTERGENIC			
SNP_118098_A_506	NW_004521778.1	scaffold9588	506	AA	CC	CC	INTERGENIC			
SNP_118099_A_744	NW_004521778.1	scaffold9588	744	AA	GG	GG	INTERGENIC			
SNP_118100_A_760	NW_004521778.1	scaffold9588	760	AA	GG	GG	INTERGENIC			
SNP_118101_A_957	NW_004521778.1	scaffold9588	957	CC	TT	TT	INTERGENIC			
SNP_118102_A_305	NW_004521779.1	scaffold9590	305	AA	GG	GG	INTERGENIC			
SNP_118103_A_848	NW_004521786.1	scaffold9612	848	AA	GG	GG	INTERGENIC			
SNP_118104_A_1182	NW_004521786.1	scaffold9612	1182	CC	AA	AA	INTERGENIC			
SNP_118105_A_1235	NW_004521786.1	scaffold9612	1235	GG	AA	AA	INTERGENIC			
SNP_118106_A_1254	NW_004521786.1	scaffold9612	1254	TT	AA	AA	INTERGENIC			
SNP_118107_A_1480	NW_004521786.1	scaffold9612	1480	AA	CC	CC	INTERGENIC			
SNP_118108_A_1577	NW_004521786.1	scaffold9612	1577	AA	GG	GG	INTERGENIC			
SNP_118109_A_2035	NW_004521786.1	scaffold9612	2035	TT	CC	CC	INTERGENIC			
SNP_118110_A_2039	NW_004521786.1	scaffold9612	2039	CC	GG	GG	INTERGENIC			
SNP_118111_A_2063	NW_004521786.1	scaffold9612	2063	CC	TT	TT	INTERGENIC			
SNP_118112_A_2084	NW_004521786.1	scaffold9612	2084	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118113_A_324	NW_004521787.1	scaffold9613	324	AA	GG	GG	INTERGENIC			
SNP_118114_A_630	NW_004521787.1	scaffold9613	630	GG	AA	AA	INTERGENIC			
SNP_118115_A_744	NW_004521790.1	scaffold9619	744	CC	TT	TT	INTERGENIC			
SNP_118116_A_771	NW_004521790.1	scaffold9619	771	TT	AA	AA	INTERGENIC			
SNP_118117_A_789	NW_004521790.1	scaffold9619	789	AA	TT	TT	INTERGENIC			
SNP_118118_A_836	NW_004521790.1	scaffold9619	836	CC	TT	TT	INTERGENIC			
SNP_118119_A_5407	NW_004521793.1	scaffold9629	5407	AA	TT	TT	INTERGENIC			
SNP_118120_A_5622	NW_004521793.1	scaffold9629	5622	CC	TT	TT	INTERGENIC			
SNP_118121_A_5814	NW_004521793.1	scaffold9629	5814	GG	TT	TT	INTERGENIC			
SNP_118122_A_5872	NW_004521793.1	scaffold9629	5872	TT	CC	CC	INTERGENIC			
SNP_118123_A_5908	NW_004521793.1	scaffold9629	5908	AA	GG	GG	INTERGENIC			
SNP_118124_A_5992	NW_004521793.1	scaffold9629	5992	AA	GG	GG	INTERGENIC			
SNP_118125_A_6037	NW_004521793.1	scaffold9629	6037	GG	AA	AA	INTERGENIC			
SNP_118126_A_305	NW_004521794.1	scaffold9632	305	TT	CC	CC	INTERGENIC			
SNP_118127_A_502	NW_004521794.1	scaffold9632	502	TT	GG	GG	INTERGENIC			
SNP_118128_A_791	NW_004521794.1	scaffold9632	791	GG	AA	AA	INTERGENIC			
SNP_118129_A_1028	NW_004521794.1	scaffold9632	1028	AA	GG	GG	INTERGENIC			
SNP_118130_A_1143	NW_004521794.1	scaffold9632	1143	TT	AA	AA	INTERGENIC			
SNP_118131_A_912	NW_004521795.1	scaffold9635	912	AA	CC	CC	INTERGENIC			
SNP_118133_A_506	NW_004521796.1	scaffold9636	506	TT	GG	GG	INTERGENIC			
SNP_118134_A_694	NW_004521796.1	scaffold9636	694	CC	AA	AA	INTERGENIC			
SNP_118135_A_833	NW_004521796.1	scaffold9636	833	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118136_A_178	NW_004521800.1	scaffold9644	178	TT	CC	CC	INTERGENIC			
SNP_118137_A_228	NW_004521800.1	scaffold9644	228	TT	CC	CC	INTERGENIC			
SNP_118138_A_280	NW_004521800.1	scaffold9644	280	GG	TT	TT	INTERGENIC			
SNP_118139_A_339	NW_004521800.1	scaffold9644	339	GG	AA	AA	INTERGENIC			
SNP_118140_A_438	NW_004521800.1	scaffold9644	438	AA	CC	CC	INTERGENIC			
SNP_118141_A_565	NW_004521800.1	scaffold9644	565	CC	TT	TT	INTERGENIC			
SNP_118142_A_664	NW_004521800.1	scaffold9644	664	CC	GG	GG	INTERGENIC			
SNP_118143_A_734	NW_004521800.1	scaffold9644	734	AA	CC	CC	INTERGENIC			
SNP_118144_A_4314	NW_004521800.1	scaffold9644	4314	GG	AA	AA	INTERGENIC			
SNP_118145_A_4317	NW_004521800.1	scaffold9644	4317	CC	TT	TT	INTERGENIC			
SNP_118146_A_4331	NW_004521800.1	scaffold9644	4331	AA	GG	GG	INTERGENIC			
SNP_118147_A_4395	NW_004521800.1	scaffold9644	4395	AA	GG	GG	INTERGENIC			
SNP_118148_A_4525	NW_004521800.1	scaffold9644	4525	GG	TT	TT	INTERGENIC			
SNP_118149_A_4530	NW_004521800.1	scaffold9644	4530	AA	CC	CC	INTERGENIC			
SNP_118150_A_4540	NW_004521800.1	scaffold9644	4540	GG	AA	AA	INTERGENIC			
SNP_118151_A_4608	NW_004521800.1	scaffold9644	4608	CC	TT	TT	INTERGENIC			
SNP_118152_A_4682	NW_004521800.1	scaffold9644	4682	AA	GG	GG	INTERGENIC			
SNP_118153_A_4710	NW_004521800.1	scaffold9644	4710	GG	TT	TT	INTERGENIC			
SNP_118154_A_4750	NW_004521800.1	scaffold9644	4750	AA	CC	CC	INTERGENIC			
SNP_118155_A_4780	NW_004521800.1	scaffold9644	4780	GG	TT	TT	INTERGENIC			
SNP_118156_A_4839	NW_004521800.1	scaffold9644	4839	CC	AA	AA	INTERGENIC			
SNP_118157_A_4852	NW_004521800.1	scaffold9644	4852	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118158_A_4938	NW_004521800.1	scaffold9644	4938	CC	TT	TT	INTERGENIC			
SNP_118159_A_5023	NW_004521800.1	scaffold9644	5023	AA	GG	GG	INTERGENIC			
SNP_118160_A_5947	NW_004521802.1	scaffold9647	5947	CC	GG	GG	INTERGENIC			
SNP_118161_A_1402	NW_004521805.1	scaffold9655	1402	GG	AA	AA	INTERGENIC			
SNP_118162_A_1421	NW_004521805.1	scaffold9655	1421	TT	CC	CC	INTERGENIC			
SNP_118163_A_1429	NW_004521805.1	scaffold9655	1429	CC	TT	TT	INTERGENIC			
SNP_118164_A_342	NW_004521808.1	scaffold9660	342	TT	CC	CC	INTERGENIC			
SNP_118165_A_506	NW_004521808.1	scaffold9660	506	CC	TT	TT	INTERGENIC			
SNP_118166_A_723	NW_004521808.1	scaffold9660	723	TT	CC	CC	INTERGENIC			
SNP_118167_A_20200	NW_004521815.1	scaffold9673	20200	GG	AA	AA	INTERGENIC			
SNP_118168_A_20411	NW_004521815.1	scaffold9673	20411	GG	AA	AA	INTERGENIC			
SNP_118169_A_20523	NW_004521815.1	scaffold9673	20523	TT	AA	AA	INTERGENIC			
SNP_118170_A_20524	NW_004521815.1	scaffold9673	20524	GG	TT	TT	INTERGENIC			
SNP_118171_A_20542	NW_004521815.1	scaffold9673	20542	AA	CC	CC	INTERGENIC			
SNP_118172_A_20668	NW_004521815.1	scaffold9673	20668	TT	CC	CC	INTERGENIC			
SNP_118173_A_20698	NW_004521815.1	scaffold9673	20698	CC	AA	AA	INTERGENIC			
SNP_118174_A_20751	NW_004521815.1	scaffold9673	20751	CC	AA	AA	INTERGENIC			
SNP_118175_A_20789	NW_004521815.1	scaffold9673	20789	GG	AA	AA	INTERGENIC			
SNP_118176_A_20852	NW_004521815.1	scaffold9673	20852	TT	CC	CC	INTERGENIC			
SNP_118177_A_20934	NW_004521815.1	scaffold9673	20934	TT	AA	AA	INTERGENIC			
SNP_118178_A_20969	NW_004521815.1	scaffold9673	20969	AA	CC	CC	INTERGENIC			
SNP_118179_A_20972	NW_004521815.1	scaffold9673	20972	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118180_A_1029	NW_004521816.1	scaffold9675	1029	GG	TT	TT	INTERGENIC			
SNP_118181_A_1042	NW_004521816.1	scaffold9675	1042	CC	TT	TT	INTERGENIC			
SNP_118182_A_232	NW_004521817.1	scaffold9677	232	AA	GG	GG	INTERGENIC			
SNP_118183_A_110	NW_004521819.1	scaffold9683	110	CC	TT	TT	INTERGENIC			
SNP_118184_A_407	NW_004521819.1	scaffold9683	407	GG	AA	AA	INTERGENIC			
SNP_118185_A_434	NW_004521819.1	scaffold9683	434	CC	TT	TT	INTERGENIC			
SNP_118186_A_508	NW_004521819.1	scaffold9683	508	CC	GG	GG	INTERGENIC			
SNP_118187_A_475	NW_004521820.1	scaffold9686	475	TT	CC	CC	INTERGENIC			
SNP_118188_A_539	NW_004521820.1	scaffold9686	539	TT	CC	CC	INTERGENIC			
SNP_118189_A_588	NW_004521820.1	scaffold9686	588	TT	CC	CC	INTERGENIC			
SNP_118190_A_601	NW_004521820.1	scaffold9686	601	CC	GG	GG	INTERGENIC			
SNP_118191_A_855	NW_004521820.1	scaffold9686	855	GG	AA	AA	INTERGENIC			
SNP_118192_A_869	NW_004521820.1	scaffold9686	869	CC	TT	TT	INTERGENIC			
SNP_118193_A_898	NW_004521820.1	scaffold9686	898	GG	AA	AA	INTERGENIC			
SNP_118194_A_907	NW_004521820.1	scaffold9686	907	TT	CC	CC	INTERGENIC			
SNP_118195_A_1137	NW_004521820.1	scaffold9686	1137	CC	TT	TT	INTERGENIC			
SNP_118196_A_1393	NW_004521820.1	scaffold9686	1393	AA	GG	GG	INTERGENIC			
SNP_118197_A_864	NW_004521823.1	scaffold9699	864	AA	CC	CC	INTERGENIC			
SNP_118198_A_64	NW_004521826.1	scaffold9704	64	CC	GG	GG	INTERGENIC			
SNP_118200_A_19614	NW_004521826.1	scaffold9704	19614	AA	CC	CC	INTERGENIC			
SNP_118201_A_540	NW_004521834.1	scaffold9727	540	AA	CC	CC	INTERGENIC			
SNP_118202_A_697	NW_004521835.1	scaffold9728	697	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118203_A_698	NW_004521835.1	scaffold9728	698	CC	AA	AA	INTERGENIC			
SNP_118204_A_981	NW_004521835.1	scaffold9728	981	TT	CC	CC	INTERGENIC			
SNP_118205_A_1048	NW_004521835.1	scaffold9728	1048	CC	AA	AA	INTERGENIC			
SNP_118206_A_1066	NW_004521835.1	scaffold9728	1066	AA	GG	GG	INTERGENIC			
SNP_118207_A_1145	NW_004521835.1	scaffold9728	1145	GG	AA	AA	INTERGENIC			
SNP_118208_A_568	NW_004521840.1	scaffold9740	568	CC	TT	TT	INTERGENIC			
SNP_118210_A_917	NW_004521847.1	scaffold9757	917	AA	GG	GG	INTERGENIC			
SNP_118211_A_540	NW_004521850.1	scaffold9764	540	AA	GG	GG	INTERGENIC			
SNP_118212_A_1049	NW_004521853.1	scaffold9774	1049	AA	CC	CC	INTERGENIC			
SNP_118213_A_1093	NW_004521853.1	scaffold9774	1093	AA	GG	GG	INTERGENIC			
SNP_118214_A_357	NW_004521856.1	scaffold9779	357	TT	AA	AA	INTERGENIC			
SNP_118215_A_488	NW_004521856.1	scaffold9779	488	AA	CC	CC	INTERGENIC			
SNP_118216_A_490	NW_004521856.1	scaffold9779	490	GG	AA	AA	INTERGENIC			
SNP_118217_A_412	NW_004521857.1	scaffold9781	412	AA	TT	TT	INTERGENIC			
SNP_118218_A_498	NW_004521857.1	scaffold9781	498	AA	TT	TT	INTERGENIC			
SNP_118219_A_499	NW_004521857.1	scaffold9781	499	CC	AA	AA	INTERGENIC			
SNP_118220_A_613	NW_004521857.1	scaffold9781	613	AA	GG	GG	INTERGENIC			
SNP_118221_A_794	NW_004521858.1	scaffold9784	794	CC	TT	TT	INTERGENIC			
SNP_118222_A_1238	NW_004521863.1	scaffold9797	1238	CC	GG	GG	INTERGENIC			
SNP_118223_A_1461	NW_004521863.1	scaffold9797	1461	CC	TT	TT	INTERGENIC			
SNP_118224_A_1468	NW_004521863.1	scaffold9797	1468	TT	AA	AA	INTERGENIC			
SNP_118225_A_1276	NW_004521865.1	scaffold9801	1276	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118226_A_391	NW_004521869.1	scaffold9809	391	GG	AA	AA	INTERGENIC			
SNP_118227_A_427	NW_004521869.1	scaffold9809	427	CC	TT	TT	INTERGENIC			
SNP_118228_A_485	NW_004521869.1	scaffold9809	485	AA	CC	CC	INTERGENIC			
SNP_118230_A_1007	NW_004521869.1	scaffold9809	1007	AA	GG	GG	INTERGENIC			
SNP_118231_A_114	NW_004521870.1	scaffold9813	114	GG	TT	TT	INTERGENIC			
SNP_118232_A_421	NW_004521870.1	scaffold9813	421	GG	TT	TT	INTERGENIC			
SNP_118233_A_739	NW_004521870.1	scaffold9813	739	CC	AA	AA	INTERGENIC			
SNP_118235_A_1281	NW_004521870.1	scaffold9813	1281	GG	CC	CC	INTERGENIC			
SNP_118236_A_1541	NW_004521870.1	scaffold9813	1541	CC	TT	TT	INTERGENIC			
SNP_118237_A_1616	NW_004521870.1	scaffold9813	1616	CC	AA	AA	INTERGENIC			
SNP_118238_A_1641	NW_004521870.1	scaffold9813	1641	GG	TT	TT	INTERGENIC			
SNP_118239_A_1693	NW_004521870.1	scaffold9813	1693	TT	AA	AA	INTERGENIC			
SNP_118240_A_5417	NW_004521870.1	scaffold9813	5417	CC	TT	TT	INTERGENIC			
SNP_118241_A_5420	NW_004521870.1	scaffold9813	5420	AA	GG	GG	INTERGENIC			
SNP_118242_A_5432	NW_004521870.1	scaffold9813	5432	TT	GG	GG	INTERGENIC			
SNP_118243_A_5483	NW_004521870.1	scaffold9813	5483	AA	GG	GG	INTERGENIC			
SNP_118244_A_1102	NW_004521872.1	scaffold9818	1102	TT	CC	CC	INTERGENIC			
SNP_118245_A_1499	NW_004521872.1	scaffold9818	1499	TT	AA	AA	INTERGENIC			
SNP_118246_A_324	NW_004521873.1	scaffold9819	324	AA	TT	TT	INTERGENIC			
SNP_118247_A_552	NW_004521873.1	scaffold9819	552	AA	CC	CC	INTERGENIC			
SNP_118248_A_209	NW_004521875.1	scaffold9821	209	TT	GG	GG	INTERGENIC			
SNP_118249_A_307	NW_004521875.1	scaffold9821	307	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118250_A_342	NW_004521875.1	scaffold9821	342	TT	AA	AA	INTERGENIC			
SNP_118251_A_347	NW_004521875.1	scaffold9821	347	AA	TT	TT	INTERGENIC			
SNP_118252_A_360	NW_004521875.1	scaffold9821	360	CC	TT	TT	INTERGENIC			
SNP_118253_A_399	NW_004521875.1	scaffold9821	399	AA	TT	TT	INTERGENIC			
SNP_118254_A_738	NW_004521875.1	scaffold9821	738	CC	GG	GG	INTERGENIC			
SNP_118255_A_796	NW_004521878.1	scaffold9827	796	CC	TT	TT	INTERGENIC			
SNP_118256_A_967	NW_004521878.1	scaffold9827	967	TT	CC	CC	INTERGENIC			
SNP_118257_A_973	NW_004521878.1	scaffold9827	973	CC	TT	TT	INTERGENIC			
SNP_118258_A_1228	NW_004521878.1	scaffold9827	1228	TT	CC	CC	INTERGENIC			
SNP_118259_A_1767	NW_004521883.1	scaffold9836	1767	AA	TT	TT	INTERGENIC			
SNP_118260_A_2417	NW_004521883.1	scaffold9836	2417	TT	AA	AA	INTERGENIC			
SNP_118261_A_2478	NW_004521883.1	scaffold9836	2478	CC	AA	AA	INTERGENIC			
SNP_118262_A_2543	NW_004521883.1	scaffold9836	2543	GG	CC	CC	INTERGENIC			
SNP_118263_A_2551	NW_004521883.1	scaffold9836	2551	AA	GG	GG	INTERGENIC			
SNP_118265_A_258	NW_004521885.1	scaffold9844	258	GG	TT	TT	INTERGENIC			
SNP_118266_A_273	NW_004521885.1	scaffold9844	273	AA	GG	GG	INTERGENIC			
SNP_118267_A_561	NW_004521885.1	scaffold9844	561	TT	GG	GG	INTERGENIC			
SNP_118268_A_297	NW_004521886.1	scaffold9847	297	GG	CC	CC	INTERGENIC			
SNP_118269_A_326	NW_004521886.1	scaffold9847	326	GG	AA	AA	INTERGENIC			
SNP_118270_A_367	NW_004521886.1	scaffold9847	367	AA	TT	TT	INTERGENIC			
SNP_118271_A_116	NW_004521887.1	scaffold9849	116	AA	GG	GG	INTERGENIC			
SNP_118272_A_521	NW_004521887.1	scaffold9849	521	AA	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118273_A_644	NW_004521887.1	scaffold9849	644	AA	GG	GG	INTERGENIC			
SNP_118274_A_196	NW_004521889.1	scaffold9851	196	TT	CC	CC	INTERGENIC			
SNP_118275_A_376	NW_004521889.1	scaffold9851	376	GG	AA	AA	INTERGENIC			
SNP_118276_A_441	NW_004521889.1	scaffold9851	441	TT	GG	GG	INTERGENIC			
SNP_118277_A_733	NW_004521889.1	scaffold9851	733	AA	CC	CC	INTERGENIC			
SNP_118279_A_869	NW_004521889.1	scaffold9851	869	CC	GG	GG	INTERGENIC			
SNP_118280_A_881	NW_004521889.1	scaffold9851	881	GG	AA	AA	INTERGENIC			
SNP_118281_A_552	NW_004521893.1	scaffold9860	552	TT	CC	CC	INTERGENIC			
SNP_118282_A_610	NW_004521893.1	scaffold9860	610	CC	AA	AA	INTERGENIC			
SNP_118283_A_628	NW_004521893.1	scaffold9860	628	CC	TT	TT	INTERGENIC			
SNP_118284_A_783	NW_004521893.1	scaffold9860	783	CC	TT	TT	INTERGENIC			
SNP_118285_A_875	NW_004521893.1	scaffold9860	875	TT	AA	AA	INTERGENIC			
SNP_118286_A_877	NW_004521893.1	scaffold9860	877	GG	AA	AA	INTERGENIC			
SNP_118288_A_929	NW_004521893.1	scaffold9860	929	AA	CC	CC	INTERGENIC			
SNP_118289_A_946	NW_004521893.1	scaffold9860	946	GG	AA	AA	INTERGENIC			
SNP_118290_A_959	NW_004521893.1	scaffold9860	959	CC	TT	TT	INTERGENIC			
SNP_118291_A_1075	NW_004521893.1	scaffold9860	1075	TT	AA	AA	INTERGENIC			
SNP_118292_A_1280	NW_004521893.1	scaffold9860	1280	CC	AA	AA	INTERGENIC			
SNP_118293_A_1312	NW_004521893.1	scaffold9860	1312	CC	AA	AA	INTERGENIC			
SNP_118294_A_1357	NW_004521901.1	scaffold9887	1357	CC	TT	TT	INTERGENIC			
SNP_118295_A_1359	NW_004521901.1	scaffold9887	1359	CC	TT	TT	INTERGENIC			
SNP_118296_A_1361	NW_004521901.1	scaffold9887	1361	GG	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118297_A_1384	NW_004521901.1	scaffold9887	1384	CC	TT	TT	INTERGENIC			
SNP_118298_A_1415	NW_004521901.1	scaffold9887	1415	CC	TT	TT	INTERGENIC			
SNP_118299_A_1717	NW_004521901.1	scaffold9887	1717	TT	CC	CC	INTERGENIC			
SNP_118300_A_1745	NW_004521901.1	scaffold9887	1745	CC	TT	TT	INTERGENIC			
SNP_118301_A_1872	NW_004521901.1	scaffold9887	1872	CC	TT	TT	INTERGENIC			
SNP_118302_A_393	NW_004521903.1	scaffold9892	393	CC	TT	TT	INTERGENIC			
SNP_118303_A_395	NW_004521903.1	scaffold9892	395	AA	TT	TT	INTERGENIC			
SNP_118304_A_426	NW_004521903.1	scaffold9892	426	TT	GG	GG	INTERGENIC			
SNP_118305_A_596	NW_004521903.1	scaffold9892	596	CC	TT	TT	INTERGENIC			
SNP_118306_A_770	NW_004521903.1	scaffold9892	770	GG	AA	AA	INTERGENIC			
SNP_118307_A_778	NW_004521903.1	scaffold9892	778	AA	GG	GG	INTERGENIC			
SNP_118308_A_796	NW_004521903.1	scaffold9892	796	TT	CC	CC	INTERGENIC			
SNP_118309_A_903	NW_004521903.1	scaffold9892	903	CC	GG	GG	INTERGENIC			
SNP_118310_A_950	NW_004521903.1	scaffold9892	950	AA	TT	TT	INTERGENIC			
SNP_118312_A_883	NW_004521907.1	scaffold9900	883	GG	AA	AA	INTERGENIC			
SNP_118313_A_975	NW_004521907.1	scaffold9900	975	GG	AA	AA	INTERGENIC			
SNP_118314_A_980	NW_004521907.1	scaffold9900	980	AA	GG	GG	INTERGENIC			
SNP_118315_A_985	NW_004521907.1	scaffold9900	985	TT	CC	CC	INTERGENIC			
SNP_118316_A_993	NW_004521907.1	scaffold9900	993	GG	TT	TT	INTERGENIC			
SNP_118317_A_994	NW_004521907.1	scaffold9900	994	CC	AA	AA	INTERGENIC			
SNP_118318_A_2175	NW_004521907.1	scaffold9900	2175	AA	GG	GG	INTERGENIC			
SNP_118319_A_2187	NW_004521907.1	scaffold9900	2187	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118320_A_2223	NW_004521908.1	scaffold9901	2223	AA	TT	TT	INTERGENIC			
SNP_118321_A_4364	NW_004521908.1	scaffold9901	4364	AA	GG	GG	INTERGENIC			
SNP_118322_A_4764	NW_004521908.1	scaffold9901	4764	AA	GG	GG	INTERGENIC			
SNP_118323_A_524	NW_004521910.1	scaffold9903	524	GG	AA	AA	INTERGENIC			
SNP_118324_A_868	NW_004521910.1	scaffold9903	868	TT	AA	AA	INTERGENIC			
SNP_118325_A_926	NW_004521910.1	scaffold9903	926	AA	GG	GG	INTERGENIC			
SNP_118326_A_972	NW_004521910.1	scaffold9903	972	AA	GG	GG	INTERGENIC			
SNP_118327_A_650	NW_004521912.1	scaffold9917	650	CC	TT	TT	INTERGENIC			
SNP_118328_A_1131	NW_004521912.1	scaffold9917	1131	TT	CC	CC	INTERGENIC			
SNP_118330_A_1192	NW_004521912.1	scaffold9917	1192	TT	GG	GG	INTERGENIC			
SNP_118331_A_1270	NW_004521912.1	scaffold9917	1270	GG	AA	AA	INTERGENIC			
SNP_118332_A_1301	NW_004521912.1	scaffold9917	1301	AA	TT	TT	INTERGENIC			
SNP_118333_A_2332	NW_004521912.1	scaffold9917	2332	GG	TT	TT	INTERGENIC			
SNP_118334_A_640	NW_004521914.1	scaffold9921	640	TT	AA	AA	INTERGENIC			
SNP_118335_A_802	NW_004521914.1	scaffold9921	802	AA	CC	CC	INTERGENIC			
SNP_118336_A_884	NW_004521914.1	scaffold9921	884	CC	TT	TT	INTERGENIC			
SNP_118337_A_921	NW_004521914.1	scaffold9921	921	AA	CC	CC	INTERGENIC			
SNP_118338_A_281	NW_004521919.1	scaffold9936	281	GG	TT	TT	INTERGENIC			
SNP_118339_A_493	NW_004521919.1	scaffold9936	493	TT	CC	CC	INTERGENIC			
SNP_118340_A_498	NW_004521919.1	scaffold9936	498	CC	TT	TT	INTERGENIC			
SNP_118341_A_625	NW_004521919.1	scaffold9936	625	CC	TT	TT	INTERGENIC			
SNP_118342_A_1017	NW_004521919.1	scaffold9936	1017	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118344_A_1711	NW_004521921.1	scaffold9943	1711	AA	TT	TT	INTERGENIC			
SNP_118345_A_2051	NW_004521921.1	scaffold9943	2051	TT	AA	AA	INTERGENIC			
SNP_118346_A_2099	NW_004521921.1	scaffold9943	2099	GG	CC	CC	INTERGENIC			
SNP_118347_A_2176	NW_004521921.1	scaffold9943	2176	CC	AA	AA	INTERGENIC			
SNP_118349_A_432	NW_004521929.1	scaffold9958	432	AA	TT	TT	INTERGENIC			
SNP_118350_A_513	NW_004521929.1	scaffold9958	513	AA	TT	TT	INTERGENIC			
SNP_118351_A_813	NW_004521929.1	scaffold9958	813	AA	GG	GG	INTERGENIC			
SNP_118352_A_855	NW_004521929.1	scaffold9958	855	GG	TT	TT	INTERGENIC			
SNP_118353_A_629	NW_004521940.1	scaffold9992	629	AA	GG	GG	INTERGENIC			
SNP_118354_A_716	NW_004521940.1	scaffold9992	716	AA	CC	CC	INTERGENIC			
SNP_118355_A_339	NW_004521944.1	scaffold10003	339	CC	GG	GG	INTERGENIC			
SNP_118356_A_865	NW_004521944.1	scaffold10003	865	AA	CC	CC	INTERGENIC			
SNP_118357_A_18743	NW_004521952.1	scaffold10029	18743	AA	GG	GG	INTERGENIC			
SNP_118358_A_18762	NW_004521952.1	scaffold10029	18762	TT	CC	CC	INTERGENIC			
SNP_118359_A_18928	NW_004521952.1	scaffold10029	18928	GG	CC	CC	INTERGENIC			
SNP_118360_A_19089	NW_004521952.1	scaffold10029	19089	GG	CC	CC	INTERGENIC			
SNP_118361_A_329	NW_004521956.1	scaffold10036	329	AA	CC	CC	INTERGENIC			
SNP_118362_A_627	NW_004521963.1	scaffold10059	627	GG	TT	TT	INTERGENIC			
SNP_118363_A_909	NW_004521963.1	scaffold10059	909	GG	AA	AA	INTERGENIC			
SNP_118364_A_949	NW_004521963.1	scaffold10059	949	CC	TT	TT	INTERGENIC			
SNP_118365_A_511	NW_004521965.1	scaffold10069	511	TT	AA	AA	INTERGENIC			
SNP_118366_A_537	NW_004521966.1	scaffold10071	537	TT	GG	GG	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_118367_A_663	NW_004521966.1	scaffold10071	663	TT	CC	CC	INTERGENIC		
SNP_118368_A_4595	NW_004521974.1	scaffold10103	4595	CC	GG	GG	INTERGENIC		
SNP_118369_A_130	NW_004521980.1	scaffold10121	130	TT	CC	CC	DRR	101507709	uncharacterized LOC101507709
SNP_118370_A_608	NW_004521980.1	scaffold10121	608	TT	AA	AA	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118371_A_617	NW_004521980.1	scaffold10121	617	TT	AA	AA	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118372_A_618	NW_004521980.1	scaffold10121	618	TT	GG	GG	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118373_A_624	NW_004521980.1	scaffold10121	624	CC	TT	TT	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118374_A_646	NW_004521980.1	scaffold10121	646	CC	TT	TT	SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118375_A_708	NW_004521980.1	scaffold10121	708	TT	AA	AA	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118376_A_709	NW_004521980.1	scaffold10121	709	GG	CC	CC	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118377_A_719	NW_004521980.1	scaffold10121	719	CC	GG	GG	NON_SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118378_A_817	NW_004521980.1	scaffold10121	817	GG	TT	TT	SYNONYMOUS_CODING	101507709	uncharacterized LOC101507709
SNP_118379_A_1587	NW_004521980.1	scaffold10121	1587	GG	AA	AA	URR	101507709	uncharacterized LOC101507709
SNP_118380_A_130	NW_004521981.1	scaffold10124	130	GG	TT	TT	INTERGENIC		
SNP_118381_A_1608	NW_004521982.1	scaffold10131	1608	CC	TT	TT	INTERGENIC		
SNP_118382_A_88	NW_004521983.1	scaffold10134	88	TT	GG	GG	INTERGENIC		
SNP_118383_A_100	NW_004521983.1	scaffold10134	100	GG	CC	CC	INTERGENIC		
SNP_118384_A_1499	NW_004521983.1	scaffold10134	1499	TT	GG	GG	INTERGENIC		
SNP_118385_A_1994	NW_004521983.1	scaffold10134	1994	CC	TT	TT	INTERGENIC		
SNP_118386_A_2089	NW_004521983.1	scaffold10134	2089	TT	AA	AA	INTERGENIC		
SNP_118387_A_2145	NW_004521983.1	scaffold10134	2145	TT	CC	CC	INTERGENIC		
SNP_118388_A_2173	NW_004521983.1	scaffold10134	2173	CC	GG	GG	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118389_A_2183	NW_004521983.1	scaffold10134	2183	TT	AA	AA	INTERGENIC			
SNP_118390_A_2196	NW_004521983.1	scaffold10134	2196	TT	GG	GG	INTERGENIC			
SNP_118391_A_2212	NW_004521983.1	scaffold10134	2212	AA	GG	GG	INTERGENIC			
SNP_118392_A_1065	NW_004521984.1	scaffold10136	1065	GG	TT	TT	INTERGENIC			
SNP_118394_A_709	NW_004521988.1	scaffold10152	709	GG	AA	AA	INTERGENIC			
SNP_118395_A_781	NW_004521988.1	scaffold10152	781	GG	AA	AA	INTERGENIC			
SNP_118396_A_832	NW_004521988.1	scaffold10152	832	GG	TT	TT	INTERGENIC			
SNP_118397_A_203	NW_004521989.1	scaffold10154	203	TT	GG	GG	INTERGENIC			
SNP_118398_A_576	NW_004521989.1	scaffold10154	576	TT	AA	AA	INTERGENIC			
SNP_118399_A_577	NW_004521989.1	scaffold10154	577	GG	TT	TT	INTERGENIC			
SNP_118400_A_640	NW_004521989.1	scaffold10154	640	CC	AA	AA	INTERGENIC			
SNP_118401_A_790	NW_004521989.1	scaffold10154	790	CC	TT	TT	INTERGENIC			
SNP_118402_A_891	NW_004521989.1	scaffold10154	891	TT	GG	GG	INTERGENIC			
SNP_118403_A_898	NW_004521989.1	scaffold10154	898	TT	AA	AA	INTERGENIC			
SNP_118404_A_922	NW_004521989.1	scaffold10154	922	TT	CC	CC	INTERGENIC			
SNP_118405_A_928	NW_004521989.1	scaffold10154	928	GG	AA	AA	INTERGENIC			
SNP_118406_A_948	NW_004521989.1	scaffold10154	948	AA	GG	GG	INTERGENIC			
SNP_118407_A_971	NW_004521989.1	scaffold10154	971	TT	CC	CC	INTERGENIC			
SNP_118408_A_980	NW_004521989.1	scaffold10154	980	CC	TT	TT	INTERGENIC			
SNP_118409_A_982	NW_004521989.1	scaffold10154	982	AA	CC	CC	INTERGENIC			
SNP_118410_A_1008	NW_004521989.1	scaffold10154	1008	AA	GG	GG	INTERGENIC			
SNP_118411_A_1446	NW_004521991.1	scaffold10158	1446	CC	TT	TT	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_118412_A_1643	NW_004521991.1	scaffold10158	1643	AA	GG	GG	INTERGENIC		
SNP_118413_A_1948	NW_004521991.1	scaffold10158	1948	CC	TT	TT	INTERGENIC		
SNP_118414_A_1982	NW_004521991.1	scaffold10158	1982	TT	AA	AA	INTERGENIC		
SNP_118416_A_16344	NW_004521991.1	scaffold10158	16344	AA	GG	GG	DRR	101508038	uncharacterized LOC101508038
SNP_118417_A_18212	NW_004521991.1	scaffold10158	18212	CC	GG	GG	INTRON	101508038	uncharacterized LOC101508038
SNP_118419_A_1118	NW_004521994.1	scaffold10180	1118	CC	AA	AA	INTERGENIC		
SNP_118420_A_1410	NW_004521995.1	scaffold10181	1410	CC	AA	AA	INTERGENIC		
SNP_118421_A_1440	NW_004521995.1	scaffold10181	1440	GG	CC	CC	INTERGENIC		
SNP_118422_A_1483	NW_004521995.1	scaffold10181	1483	TT	CC	CC	INTERGENIC		
SNP_118423_A_1059	NW_004521997.1	scaffold10186	1059	TT	CC	CC	SPLICE_SITE_REGION	101508351	uncharacterized LOC101508351
SNP_118424_A_1543	NW_004521997.1	scaffold10186	1543	TT	AA	AA	INTRON	101508351	uncharacterized LOC101508351
SNP_118425_A_1552	NW_004521997.1	scaffold10186	1552	TT	CC	CC	INTRON	101508351	uncharacterized LOC101508351
SNP_118426_A_1606	NW_004521997.1	scaffold10186	1606	TT	CC	CC	INTRON	101508351	uncharacterized LOC101508351
SNP_118427_A_1616	NW_004521997.1	scaffold10186	1616	TT	CC	CC	INTRON	101508351	uncharacterized LOC101508351
SNP_118428_A_64	NW_004521998.1	scaffold10196	64	CC	TT	TT	INTERGENIC		
SNP_118429_A_104	NW_004521998.1	scaffold10196	104	AA	TT	TT	INTERGENIC		
SNP_118430_A_497	NW_004521998.1	scaffold10196	497	GG	TT	TT	INTERGENIC		
SNP_118431_A_1256	NW_004522004.1	scaffold10218	1256	TT	CC	CC	INTERGENIC		
SNP_118432_A_1594	NW_004522004.1	scaffold10218	1594	GG	AA	AA	INTERGENIC		
SNP_118433_A_1614	NW_004522004.1	scaffold10218	1614	TT	AA	AA	INTERGENIC		
SNP_118434_A_1665	NW_004522006.1	scaffold10227	1665	CC	TT	TT	INTERGENIC		
SNP_118435_A_4979	NW_004522006.1	scaffold10227	4979	TT	AA	AA	INTRON	101508665	transcription factor bHLH94-like

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_118436_A_6034	NW_004522006.1	scaffold10227	6034	GG	AA	AA	STOP_GAINED	101508665	transcription factor bHLH94-like
SNP_118437_A_6207	NW_004522006.1	scaffold10227	6207	GG	AA	AA	NON_SYNONYMOUS_CODING	101508665	transcription factor bHLH94-like
SNP_118439_A_6941	NW_004522006.1	scaffold10227	6941	TT	CC	CC	NON_SYNONYMOUS_CODING	101508665	transcription factor bHLH94-like
SNP_118440_A_9391	NW_004522006.1	scaffold10227	9391	TT	AA	AA	INTERGENIC		
SNP_118441_A_10184	NW_004522006.1	scaffold10227	10184	GG	AA	AA	INTERGENIC		
SNP_118442_A_11246	NW_004522006.1	scaffold10227	11246	AA	GG	GG	INTERGENIC		
SNP_118443_A_11267	NW_004522006.1	scaffold10227	11267	AA	TT	TT	INTERGENIC		
SNP_118444_A_11351	NW_004522006.1	scaffold10227	11351	CC	TT	TT	INTERGENIC		
SNP_118445_A_11418	NW_004522006.1	scaffold10227	11418	GG	AA	AA	INTERGENIC		
SNP_118446_A_11443	NW_004522006.1	scaffold10227	11443	CC	TT	TT	INTERGENIC		
SNP_118447_A_11540	NW_004522006.1	scaffold10227	11540	CC	AA	AA	INTERGENIC		
SNP_118448_A_11549	NW_004522006.1	scaffold10227	11549	AA	GG	GG	INTERGENIC		
SNP_118449_A_11556	NW_004522006.1	scaffold10227	11556	GG	AA	AA	INTERGENIC		
SNP_118450_A_11562	NW_004522006.1	scaffold10227	11562	AA	GG	GG	INTERGENIC		
SNP_118451_A_12048	NW_004522006.1	scaffold10227	12048	CC	TT	TT	INTERGENIC		
SNP_118452_A_12055	NW_004522006.1	scaffold10227	12055	GG	AA	AA	INTERGENIC		
SNP_118453_A_12108	NW_004522006.1	scaffold10227	12108	TT	CC	CC	INTERGENIC		
SNP_118454_A_12130	NW_004522006.1	scaffold10227	12130	GG	AA	AA	INTERGENIC		
SNP_118455_A_12136	NW_004522006.1	scaffold10227	12136	AA	CC	CC	INTERGENIC		
SNP_118456_A_12179	NW_004522006.1	scaffold10227	12179	AA	GG	GG	INTERGENIC		
SNP_118457_A_142	NW_004522007.1	scaffold10231	142	CC	TT	TT	INTERGENIC		
SNP_118458_A_417	NW_004522007.1	scaffold10231	417	GG	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118460_A_672	NW_004522007.1	scaffold10231	672	CC	TT	TT	INTERGENIC			
SNP_118461_A_850	NW_004522007.1	scaffold10231	850	CC	AA	AA	INTERGENIC			
SNP_118462_A_56	NW_004522008.1	scaffold10232	56	TT	GG	GG	INTERGENIC			
SNP_118463_A_64	NW_004522008.1	scaffold10232	64	AA	GG	GG	INTERGENIC			
SNP_118464_A_101	NW_004522008.1	scaffold10232	101	AA	CC	CC	INTERGENIC			
SNP_118465_A_140	NW_004522008.1	scaffold10232	140	AA	CC	CC	INTERGENIC			
SNP_118466_A_142	NW_004522008.1	scaffold10232	142	TT	AA	AA	INTERGENIC			
SNP_118467_A_223	NW_004522008.1	scaffold10232	223	GG	AA	AA	INTERGENIC			
SNP_118468_A_343	NW_004522008.1	scaffold10232	343	CC	AA	AA	INTERGENIC			
SNP_118469_A_440	NW_004522008.1	scaffold10232	440	CC	TT	TT	INTERGENIC			
SNP_118470_A_444	NW_004522008.1	scaffold10232	444	AA	GG	GG	INTERGENIC			
SNP_118472_A_882	NW_004522008.1	scaffold10232	882	CC	AA	AA	INTERGENIC			
SNP_118473_A_883	NW_004522008.1	scaffold10232	883	AA	TT	TT	INTERGENIC			
SNP_118474_A_884	NW_004522008.1	scaffold10232	884	TT	GG	GG	INTERGENIC			
SNP_118475_A_944	NW_004522008.1	scaffold10232	944	TT	GG	GG	INTERGENIC			
SNP_118476_A_361	NW_004522009.1	scaffold10238	361	TT	CC	CC	INTERGENIC			
SNP_118477_A_1012	NW_004522009.1	scaffold10238	1012	GG	AA	AA	INTERGENIC			
SNP_118478_A_1145	NW_004522009.1	scaffold10238	1145	AA	GG	GG	INTERGENIC			
SNP_118479_A_1177	NW_004522009.1	scaffold10238	1177	CC	TT	TT	INTERGENIC			
SNP_118480_A_1350	NW_004522009.1	scaffold10238	1350	TT	CC	CC	INTERGENIC			
SNP_118481_A_1394	NW_004522009.1	scaffold10238	1394	GG	AA	AA	INTERGENIC			
SNP_118482_A_1411	NW_004522009.1	scaffold10238	1411	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118483_A_1412	NW_004522009.1	scaffold10238	1412	AA	CC	CC	INTERGENIC			
SNP_118485_A_1464	NW_004522009.1	scaffold10238	1464	TT	CC	CC	INTERGENIC			
SNP_118486_A_944	NW_004522013.1	scaffold10244	944	GG	AA	AA	INTERGENIC			
SNP_118487_A_1445	NW_004522013.1	scaffold10244	1445	TT	CC	CC	INTERGENIC			
SNP_118488_A_1713	NW_004522013.1	scaffold10244	1713	AA	TT	TT	INTERGENIC			
SNP_118489_A_1744	NW_004522013.1	scaffold10244	1744	GG	TT	TT	INTERGENIC			
SNP_118490_A_1770	NW_004522013.1	scaffold10244	1770	TT	GG	GG	INTERGENIC			
SNP_118491_A_1851	NW_004522013.1	scaffold10244	1851	GG	AA	AA	INTERGENIC			
SNP_118492_A_255	NW_004522021.1	scaffold10285	255	AA	GG	GG	INTERGENIC			
SNP_118493_A_407	NW_004522021.1	scaffold10285	407	AA	GG	GG	INTERGENIC			
SNP_118494_A_784	NW_004522021.1	scaffold10285	784	CC	TT	TT	INTERGENIC			
SNP_118495_A_888	NW_004522021.1	scaffold10285	888	TT	AA	AA	INTERGENIC			
SNP_118497_A_1477	NW_004522021.1	scaffold10285	1477	TT	AA	AA	INTERGENIC			
SNP_118498_A_18807	NW_004522022.1	scaffold10299	18807	AA	TT	TT	INTERGENIC			
SNP_118499_A_18821	NW_004522022.1	scaffold10299	18821	TT	CC	CC	INTERGENIC			
SNP_118500_A_18978	NW_004522022.1	scaffold10299	18978	GG	AA	AA	INTERGENIC			
SNP_118501_A_18983	NW_004522022.1	scaffold10299	18983	TT	CC	CC	INTERGENIC			
SNP_118502_A_19196	NW_004522022.1	scaffold10299	19196	GG	TT	TT	INTERGENIC			
SNP_118503_A_19334	NW_004522022.1	scaffold10299	19334	CC	TT	TT	INTERGENIC			
SNP_118504_A_19373	NW_004522022.1	scaffold10299	19373	TT	AA	AA	INTERGENIC			
SNP_118505_A_666	NW_004522023.1	scaffold10304	666	TT	GG	GG	INTERGENIC			
SNP_118506_A_884	NW_004522023.1	scaffold10304	884	TT	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118507_A_1006	NW_004522023.1	scaffold10304	1006	TT	CC	CC	INTERGENIC			
SNP_118508_A_1300	NW_004522023.1	scaffold10304	1300	TT	GG	GG	INTERGENIC			
SNP_118509_A_1328	NW_004522023.1	scaffold10304	1328	AA	TT	TT	INTERGENIC			
SNP_118510_A_409	NW_004522024.1	scaffold10305	409	AA	GG	GG	INTERGENIC			
SNP_118511_A_1568	NW_004522025.1	scaffold10307	1568	AA	GG	GG	INTERGENIC			
SNP_118512_A_1664	NW_004522025.1	scaffold10307	1664	GG	AA	AA	INTERGENIC			
SNP_118513_A_570	NW_004522026.1	scaffold10313	570	CC	AA	AA	INTERGENIC			
SNP_118514_A_575	NW_004522026.1	scaffold10313	575	TT	AA	AA	INTERGENIC			
SNP_118515_A_659	NW_004522029.1	scaffold10320	659	CC	TT	TT	INTERGENIC			
SNP_118516_A_1093	NW_004522029.1	scaffold10320	1093	CC	AA	AA	INTERGENIC			
SNP_118517_A_1189	NW_004522029.1	scaffold10320	1189	CC	AA	AA	INTERGENIC			
SNP_118518_A_672	NW_004522031.1	scaffold10324	672	TT	CC	CC	INTERGENIC			
SNP_118519_A_1144	NW_004522031.1	scaffold10324	1144	TT	CC	CC	INTERGENIC			
SNP_118520_A_1240	NW_004522031.1	scaffold10324	1240	CC	AA	AA	INTERGENIC			
SNP_118521_A_4875	NW_004522034.1	scaffold10336	4875	CC	TT	TT	INTERGENIC			
SNP_118522_A_4910	NW_004522034.1	scaffold10336	4910	CC	TT	TT	INTERGENIC			
SNP_118523_A_91	NW_004522037.1	scaffold10354	91	TT	AA	AA	INTERGENIC			
SNP_118524_A_299	NW_004522037.1	scaffold10354	299	AA	GG	GG	INTERGENIC			
SNP_118525_A_317	NW_004522037.1	scaffold10354	317	GG	CC	CC	INTERGENIC			
SNP_118526_A_334	NW_004522037.1	scaffold10354	334	TT	AA	AA	INTERGENIC			
SNP_118527_A_982	NW_004522037.1	scaffold10354	982	TT	CC	CC	INTERGENIC			
SNP_118528_A_20123	NW_004522037.1	scaffold10354	20123	TT	CC	CC	URR	101510373	probable CCR4-associated factor 1 homolog 11	

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118529_A_406	NW_004522039.1	scaffold10356	406	CC	AA	AA	INTERGENIC			
SNP_118530_A_439	NW_004522039.1	scaffold10356	439	GG	AA	AA	INTERGENIC			
SNP_118531_A_575	NW_004522039.1	scaffold10356	575	CC	TT	TT	INTERGENIC			
SNP_118532_A_623	NW_004522039.1	scaffold10356	623	TT	GG	GG	INTERGENIC			
SNP_118533_A_764	NW_004522039.1	scaffold10356	764	CC	AA	AA	INTERGENIC			
SNP_118534_A_64	NW_004522041.1	scaffold10361	64	CC	AA	AA	INTERGENIC			
SNP_118535_A_181	NW_004522041.1	scaffold10361	181	AA	TT	TT	INTERGENIC			
SNP_118536_A_601	NW_004522041.1	scaffold10361	601	AA	TT	TT	INTERGENIC			
SNP_118537_A_653	NW_004522041.1	scaffold10361	653	CC	AA	AA	INTERGENIC			
SNP_118538_A_657	NW_004522041.1	scaffold10361	657	AA	GG	GG	INTERGENIC			
SNP_118539_A_708	NW_004522041.1	scaffold10361	708	GG	AA	AA	INTERGENIC			
SNP_118540_A_757	NW_004522041.1	scaffold10361	757	AA	TT	TT	INTERGENIC			
SNP_118541_A_767	NW_004522041.1	scaffold10361	767	CC	AA	AA	INTERGENIC			
SNP_118542_A_819	NW_004522041.1	scaffold10361	819	CC	TT	TT	INTERGENIC			
SNP_118543_A_835	NW_004522041.1	scaffold10361	835	CC	AA	AA	INTERGENIC			
SNP_118544_A_843	NW_004522041.1	scaffold10361	843	AA	GG	GG	INTERGENIC			
SNP_118546_A_932	NW_004522041.1	scaffold10361	932	TT	AA	AA	INTERGENIC			
SNP_118547_A_947	NW_004522041.1	scaffold10361	947	CC	GG	GG	INTERGENIC			
SNP_118548_A_949	NW_004522041.1	scaffold10361	949	AA	GG	GG	INTERGENIC			
SNP_118549_A_960	NW_004522041.1	scaffold10361	960	GG	AA	AA	INTERGENIC			
SNP_118550_A_971	NW_004522041.1	scaffold10361	971	GG	TT	TT	INTERGENIC			
SNP_118551_A_975	NW_004522041.1	scaffold10361	975	TT	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118552_A_1005	NW_004522041.1	scaffold10361	1005	CC	AA	AA	INTERGENIC			
SNP_118553_A_1013	NW_004522041.1	scaffold10361	1013	TT	AA	AA	INTERGENIC			
SNP_118554_A_1014	NW_004522041.1	scaffold10361	1014	CC	TT	TT	INTERGENIC			
SNP_118555_A_1015	NW_004522041.1	scaffold10361	1015	AA	TT	TT	INTERGENIC			
SNP_118556_A_1042	NW_004522041.1	scaffold10361	1042	TT	AA	AA	INTERGENIC			
SNP_118557_A_1049	NW_004522041.1	scaffold10361	1049	GG	CC	CC	INTERGENIC			
SNP_118558_A_1072	NW_004522041.1	scaffold10361	1072	CC	TT	TT	INTERGENIC			
SNP_118559_A_1116	NW_004522041.1	scaffold10361	1116	GG	CC	CC	INTERGENIC			
SNP_118560_A_1117	NW_004522041.1	scaffold10361	1117	AA	TT	TT	INTERGENIC			
SNP_118561_A_1129	NW_004522041.1	scaffold10361	1129	GG	AA	AA	INTERGENIC			
SNP_118562_A_1264	NW_004522041.1	scaffold10361	1264	TT	CC	CC	INTERGENIC			
SNP_118563_A_64	NW_004522046.1	scaffold10378	64	TT	CC	CC	INTERGENIC			
SNP_118564_A_123	NW_004522046.1	scaffold10378	123	AA	GG	GG	INTERGENIC			
SNP_118565_A_235	NW_004522046.1	scaffold10378	235	CC	AA	AA	INTERGENIC			
SNP_118566_A_292	NW_004522046.1	scaffold10378	292	AA	CC	CC	INTERGENIC			
SNP_118567_A_592	NW_004522046.1	scaffold10378	592	AA	CC	CC	INTERGENIC			
SNP_118568_A_680	NW_004522046.1	scaffold10378	680	TT	GG	GG	INTERGENIC			
SNP_118569_A_687	NW_004522046.1	scaffold10378	687	CC	TT	TT	INTERGENIC			
SNP_118570_A_741	NW_004522046.1	scaffold10378	741	CC	AA	AA	INTERGENIC			
SNP_118571_A_771	NW_004522046.1	scaffold10378	771	TT	CC	CC	INTERGENIC			
SNP_118572_A_787	NW_004522046.1	scaffold10378	787	AA	TT	TT	INTERGENIC			
SNP_118573_A_788	NW_004522046.1	scaffold10378	788	AA	CC	CC	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence genome	Components of	Gene accession IDs	Putative functions
SNP_118574_A_792	NW_004522046.1	scaffold10378	792	GG	AA	AA	INTERGENIC			
SNP_118575_A_822	NW_004522046.1	scaffold10378	822	TT	CC	CC	INTERGENIC			
SNP_118576_A_873	NW_004522046.1	scaffold10378	873	CC	TT	TT	INTERGENIC			
SNP_118577_A_1093	NW_004522046.1	scaffold10378	1093	AA	TT	TT	INTERGENIC			
SNP_118578_A_1117	NW_004522046.1	scaffold10378	1117	TT	AA	AA	INTERGENIC			
SNP_118579_A_1175	NW_004522046.1	scaffold10378	1175	GG	TT	TT	INTERGENIC			
SNP_118580_A_64	NW_004522051.1	scaffold10392	64	AA	GG	GG	INTERGENIC			
SNP_118581_A_186	NW_004522051.1	scaffold10392	186	TT	CC	CC	INTERGENIC			
SNP_118582_A_346	NW_004522051.1	scaffold10392	346	TT	AA	AA	INTERGENIC			
SNP_118583_A_350	NW_004522051.1	scaffold10392	350	GG	TT	TT	INTERGENIC			
SNP_118584_A_572	NW_004522054.1	scaffold10401	572	AA	TT	TT	INTERGENIC			
SNP_118585_A_482	NW_004522055.1	scaffold10409	482	GG	AA	AA	INTERGENIC			
SNP_118587_A_714	NW_004522059.1	scaffold10415	714	AA	GG	GG	INTERGENIC			
SNP_118590_A_741	NW_004522062.1	scaffold10419	741	GG	AA	AA	DRR	101511024	protein SEH1	
SNP_118592_A_8993	NW_004522062.1	scaffold10419	8993	AA	CC	CC	URR	101511024	protein SEH1	
SNP_118593_A_10314	NW_004522062.1	scaffold10419	10314	AA	TT	TT	INTERGENIC			
SNP_118594_A_706	NW_004522098.1	C11046550	706	GG	TT	TT	INTERGENIC			
SNP_118598_A_659	NW_004522120.1	C11048340	659	CC	GG	GG	INTERGENIC			
SNP_118599_A_664	NW_004522120.1	C11048340	664	TT	CC	CC	INTERGENIC			
SNP_118600_A_665	NW_004522120.1	C11048340	665	GG	AA	AA	INTERGENIC			
SNP_118601_A_683	NW_004522120.1	C11048340	683	GG	AA	AA	INTERGENIC			
SNP_118602_A_707	NW_004522120.1	C11048340	707	CC	AA	AA	INTERGENIC			

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_118603_A_790	NW_004522120.1	C11048340	790	TT	CC	CC	INTERGENIC		
SNP_118604_A_934	NW_004522120.1	C11048340	934	CC	TT	TT	INTERGENIC		
SNP_118605_A_936	NW_004522120.1	C11048340	936	AA	GG	GG	INTERGENIC		
SNP_118606_A_986	NW_004522120.1	C11048340	986	AA	GG	GG	INTERGENIC		
SNP_118607_A_1000	NW_004522120.1	C11048340	1000	TT	CC	CC	INTERGENIC		
SNP_118613_A_937	NW_004522221.1	C11059834	937	CC	GG	GG	INTERGENIC		
SNP_118614_A_1102	NW_004522221.1	C11059834	1102	GG	CC	CC	INTERGENIC		
SNP_118617_A_482	NW_004522265.1	C11064028	482	GG	CC	CC	INTERGENIC		
SNP_118620_A_813	NW_004522278.1	C11065790	813	AA	CC	CC	INTERGENIC		
SNP_118624_A_238	NW_004522324.1	C11071258	238	AA	TT	TT	INTERGENIC		
SNP_118629_A_416	NW_004522406.1	C11082608	416	AA	TT	TT	INTERGENIC		
SNP_118631_A_745	NW_004522492.1	C11100822	745	TT	CC	CC	INTERGENIC		
SNP_118632_A_344	NW_004522574.1	C11119398	344	CC	TT	TT	INTERGENIC		
SNP_118633_A_2062	NW_004522574.1	C11119398	2062	TT	GG	GG	INTERGENIC		
SNP_118634_A_2132	NW_004522574.1	C11119398	2132	CC	GG	GG	INTERGENIC		
SNP_118635_A_1915	NW_004522593.1	C11124516	1915	AA	CC	CC	INTERGENIC		
SNP_118636_A_1937	NW_004522593.1	C11124516	1937	CC	TT	TT	INTERGENIC		
SNP_118637_A_2906	NW_004522607.1	C11129662	2906	GG	AA	AA	SYNONYMOUS_CODING	101513693	xyloglucan endotransglucosylase/hydrolase 2-like
SNP_118638_A_2945	NW_004522607.1	C11129662	2945	AA	GG	GG	SYNONYMOUS_CODING	101513693	xyloglucan endotransglucosylase/hydrolase 2-like
SNP_118639_A_2960	NW_004522675.1	C11150620	2960	TT	CC	CC	INTERGENIC		
SNP_118640_A_3780	NW_004522675.1	C11150620	3780	AA	GG	GG	INTERGENIC		
SNP_118642_A_5745	NW_004522689.1	C11155258	5745	CC	AA	AA	INTERGENIC		

SNPs IDs	Chromosome IDs	Chromosomes	Physical positions (bp)	CDC Frontier (Reference genome)	(Pusa 1103 & HPNB)	(ILWC 46 & LPNB)	Sequence Components of genome	Gene accession IDs	Putative functions
SNP_118643_A_3871	NW_004522697.1	C11159426	3871	AA	GG	GG	URR	101503396	uncharacterized LOC101503396
SNP_118644_A_7867	NW_004522727.1	C11168930	7867	TT	CC	CC	SYNONYMOUS_STOP	101513927	Unknown function
SNP_118646_A_6845	NW_004522738.1	C11176652	6845	TT	CC	CC	INTERGENIC		
SNP_118647_A_7040	NW_004522738.1	C11176652	7040	TT	GG	GG	INTERGENIC		
SNP_118648_A_7893	NW_004522743.1	C11177592	7893	CC	TT	TT	INTERGENIC		
SNP_118649_A_7910	NW_004522743.1	C11177592	7910	CC	AA	AA	INTERGENIC		
SNP_118650_A_7938	NW_004522743.1	C11177592	7938	TT	GG	GG	INTERGENIC		
SNP_118651_A_10787	NW_004522743.1	C11177592	10787	CC	AA	AA	URR	101492872	chaperone protein dnaJ 20, chloroplastic
SNP_118652_A_2927	NW_004522745.1	C11178116	2927	CC	AA	AA	INTERGENIC		
SNP_118653_A_1994	NW_004522746.1	C11178328	1994	GG	AA	AA	INTERGENIC		
SNP_118654_A_2960	NW_004522746.1	C11178328	2960	TT	AA	AA	INTERGENIC		
SNP_118655_A_4062	NW_004522746.1	C11178328	4062	GG	TT	TT	INTERGENIC		
SNP_118656_A_6495	NW_004522746.1	C11178328	6495	AA	TT	TT	INTERGENIC		
SNP_118657_A_7768	NW_004522746.1	C11178328	7768	CC	TT	TT	DRR	101494471	putative disease resistance RPP13-like protein 1
SNP_118659_A_11616	NW_004522749.1	C11178574	11616	TT	CC	CC	INTERGENIC		
SNP_118661_A_20322	NW_004522751.1	C11181782	20322	GG	AA	AA	INTERGENIC		
SNP_118662_A_20423	NW_004522751.1	C11181782	20423	TT	AA	AA	INTERGENIC		
SNP_118664_A_46379	NC_011163.1	Pltd	46379	AA	GG	GG	URR	6797566	RNA polymerase beta" subunit
SNP_118665_A_50492	NC_011163.1	Pltd	50492	TT	CC	CC	URR	6797512	ATP synthase CF0 B subunit